APPENDIX A
FT-IR Data

Summary of RTO FTIR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Unit	Run No.	Start Date	Start Time	End Date	End Time	Methanol	Ethanol	IPA	m-xylene	o-xylene	p-xylene	Ethyl Lactate	PGMEA	NBUAC	H_2O	CO_2
						CONCENTRATION										
						(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(%)	(%)
Fab 11W	1	11/03/06	23:09:42	11/04/06	7:11:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23
Fab 11W	2	11/09/06	11:25:51	11/09/06	19:27:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.19
Fab 11W	3	11/17/06	9:37:19	11/17/06	17:38:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21
Fab 11W	**Avg.**					**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**1.54**	**0.21**
Fab 11S	1	11/30/06	10:05:01	11/30/06	18:10:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23
Fab 11S	2	12/06/06	9:59:54	12/06/06	18:00:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23
Fab 11S	3	12/12/06	11:00:19	12/12/06	19:01:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23
Fab 11S	**Avg.**					**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**1.37**	**0.23**
						CONCENTRATION										
						(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(%)	(%)
Fab 11X-B	1	11/29/06	10:16:34	11/29/06	18:15:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.18	0.21
Fab 11X-B	2	12/05/06	10:20:59	12/05/06	18:22:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21
Fab 11X-B	3	12/11/06	10:41:39	12/11/06	18:44:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21
Fab 11X-B	**Avg.**					**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**1.14**	**0.21**
Fab 11X-F	1	11/02/06	12:41:11	11/02/06	20:42:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21
Fab 11X-F	2	11/10/06	11:41:10	11/10/06	19:36:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23
Fab 11X-F	3	11/16/06	9:33:05	11/16/06	17:33:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.26
Fab 11X-F	**Avg.**					**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**1.35**	**0.24**

* Not True Emissions as Stack concentrations. Does not account for significant contributions from the ambient air being brought into the FABs.

** Estimated as the sum of NO & NO_2 measurements, Emissions Calculated using NO_2 molecular weight

Detection Limit	0.66	1.28	0.93	1.04	1.83	0.37	0.09	1.05	0.35	0.11	0.01

APPENDIX A-1
FT-IR Data
FAB 11X-Fab Side; 10s.8.1a

10s.8.1a (Fab 11X) Fab Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 1 11 02 06 SAMPLE_0000.LAB	11/02/06	12:41:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0001.LAB	11/02/06	12:43:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0002.LAB	11/02/06	12:46:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0003.LAB	11/02/06	12:49:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0004.LAB	11/02/06	12:51:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0005.LAB	11/02/06	12:54:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0006.LAB	11/02/06	12:57:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	149.76	1.00
11X-F RUN 1 11 02 06 SAMPLE_0007.LAB	11/02/06	12:59:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	1.01
11X-F RUN 1 11 02 06 SAMPLE_0008.LAB	11/02/06	13:02:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0009.LAB	11/02/06	13:05:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0010.LAB	11/02/06	13:07:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0011.LAB	11/02/06	13:10:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0012.LAB	11/02/06	13:13:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.22	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0013.LAB	11/02/06	13:15:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0014.LAB	11/02/06	13:18:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0015.LAB	11/02/06	13:21:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	150.51	1.01
11X-F RUN 1 11 02 06 SAMPLE_0016.LAB	11/02/06	13:23:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0017.LAB	11/02/06	13:26:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0018.LAB	11/02/06	13:29:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0019.LAB	11/02/06	13:31:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	1.01
11X-F RUN 1 11 02 06 SAMPLE_0020.LAB	11/02/06	13:34:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0021.LAB	11/02/06	13:37:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0022.LAB	11/02/06	13:39:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0023.LAB	11/02/06	13:42:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0024.LAB	11/02/06	13:45:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0025.LAB	11/02/06	13:48:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0026.LAB	11/02/06	13:50:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0027.LAB	11/02/06	13:53:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0028.LAB	11/02/06	13:56:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0029.LAB	11/02/06	13:58:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0030.LAB	11/02/06	14:01:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0031.LAB	11/02/06	14:04:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0032.LAB	11/02/06	14:06:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0033.LAB	11/02/06	14:09:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0034.LAB	11/02/06	14:12:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0035.LAB	11/02/06	14:14:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0036.LAB	11/02/06	14:17:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0037.LAB	11/02/06	14:20:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0038.LAB	11/02/06	14:22:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0039.LAB	11/02/06	14:25:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0040.LAB	11/02/06	14:28:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0041.LAB	11/02/06	14:31:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0042.LAB	11/02/06	14:33:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.98

10s.8.1a (Fab 11X) Fab Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 1 11 02 06 SAMPLE_0043.LAB	11/02/06	14:36:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0044.LAB	11/02/06	14:39:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0045.LAB	11/02/06	14:41:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	151.25	0.99
11X-F RUN 1 11 02 06 SAMPLE_0046.LAB	11/02/06	14:44:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0047.LAB	11/02/06	14:47:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0048.LAB	11/02/06	14:49:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0049.LAB	11/02/06	14:52:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0050.LAB	11/02/06	14:55:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0051.LAB	11/02/06	14:57:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0052.LAB	11/02/06	15:00:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0053.LAB	11/02/06	15:03:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0054.LAB	11/02/06	15:06:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0055.LAB	11/02/06	15:08:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0056.LAB	11/02/06	15:11:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0057.LAB	11/02/06	15:14:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0058.LAB	11/02/06	15:16:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0059.LAB	11/02/06	15:19:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	151.25	0.97
11X-F RUN 1 11 02 06 SAMPLE_0060.LAB	11/02/06	15:22:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.20	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0061.LAB	11/02/06	15:24:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0062.LAB	11/02/06	15:27:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0063.LAB	11/02/06	15:30:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0064.LAB	11/02/06	15:32:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0065.LAB	11/02/06	15:35:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0066.LAB	11/02/06	15:38:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0067.LAB	11/02/06	15:41:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.20	151.25	0.99
11X-F RUN 1 11 02 06 SAMPLE_0068.LAB	11/02/06	15:43:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0069.LAB	11/02/06	15:46:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0070.LAB	11/02/06	15:49:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.20	151.25	0.99
11X-F RUN 1 11 02 06 SAMPLE_0071.LAB	11/02/06	15:51:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0072.LAB	11/02/06	15:54:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0073.LAB	11/02/06	15:57:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0074.LAB	11/02/06	15:59:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	151.25	0.99
11X-F RUN 1 11 02 06 SAMPLE_0075.LAB	11/02/06	16:02:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0076.LAB	11/02/06	16:05:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	151.25	0.98
11X-F RUN 1 11 02 06 SAMPLE_0077.LAB	11/02/06	16:07:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0078.LAB	11/02/06	16:10:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0079.LAB	11/02/06	16:13:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0080.LAB	11/02/06	16:15:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0081.LAB	11/02/06	16:18:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0082.LAB	11/02/06	16:21:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0083.LAB	11/02/06	16:24:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.21	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0084.LAB	11/02/06	16:26:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.21	150.51	0.95
11X-F RUN 1 11 02 06 SAMPLE_0085.LAB	11/02/06	16:29:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.21	150.51	0.96

10s.8.1a (Fab 11X) Fab Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 1 11 02 06 SAMPLE_0086.LAB	11/02/06	16:32:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0087.LAB	11/02/06	16:34:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0088.LAB	11/02/06	16:37:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0089.LAB	11/02/06	16:40:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0090.LAB	11/02/06	16:42:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0091.LAB	11/02/06	16:45:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0092.LAB	11/02/06	16:48:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0093.LAB	11/02/06	16:50:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0094.LAB	11/02/06	16:53:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0095.LAB	11/02/06	16:56:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0096.LAB	11/02/06	16:58:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0097.LAB	11/02/06	17:01:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0098.LAB	11/02/06	17:04:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0099.LAB	11/02/06	17:06:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0100.LAB	11/02/06	17:09:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0101.LAB	11/02/06	17:12:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0102.LAB	11/02/06	17:14:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0103.LAB	11/02/06	17:17:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.20	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0104.LAB	11/02/06	17:20:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0105.LAB	11/02/06	17:22:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0106.LAB	11/02/06	17:25:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0107.LAB	11/02/06	17:28:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0108.LAB	11/02/06	17:30:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.20	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0109.LAB	11/02/06	17:33:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0110.LAB	11/02/06	17:36:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0111.LAB	11/02/06	17:38:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0112.LAB	11/02/06	17:41:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0113.LAB	11/02/06	17:44:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0114.LAB	11/02/06	17:46:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0115.LAB	11/02/06	17:49:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0116.LAB	11/02/06	17:52:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0117.LAB	11/02/06	17:54:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0118.LAB	11/02/06	17:57:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0119.LAB	11/02/06	18:00:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0120.LAB	11/02/06	18:02:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0121.LAB	11/02/06	18:05:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0122.LAB	11/02/06	18:08:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0123.LAB	11/02/06	18:10:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0124.LAB	11/02/06	18:13:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0125.LAB	11/02/06	18:16:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0126.LAB	11/02/06	18:18:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0127.LAB	11/02/06	18:21:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.20	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0128.LAB	11/02/06	18:24:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.99

10s.8.1a (Fab 11X) Fab Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 1 11 02 06 SAMPLE_0129.LAB	11/02/06	18:26:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0130.LAB	11/02/06	18:29:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0131.LAB	11/02/06	18:32:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.21	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0132.LAB	11/02/06	18:34:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0133.LAB	11/02/06	18:37:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0134.LAB	11/02/06	18:40:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0135.LAB	11/02/06	18:42:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0136.LAB	11/02/06	18:45:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0137.LAB	11/02/06	18:48:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0138.LAB	11/02/06	18:50:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0139.LAB	11/02/06	18:53:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0140.LAB	11/02/06	18:55:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0141.LAB	11/02/06	18:58:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0142.LAB	11/02/06	19:01:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0143.LAB	11/02/06	19:03:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	149.76	0.98
11X-F RUN 1 11 02 06 SAMPLE_0144.LAB	11/02/06	19:06:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0145.LAB	11/02/06	19:09:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0146.LAB	11/02/06	19:11:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0147.LAB	11/02/06	19:14:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0148.LAB	11/02/06	19:17:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0149.LAB	11/02/06	19:19:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0150.LAB	11/02/06	19:22:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0151.LAB	11/02/06	19:25:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0152.LAB	11/02/06	19:27:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.22	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0153.LAB	11/02/06	19:30:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0154.LAB	11/02/06	19:33:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0155.LAB	11/02/06	19:35:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0156.LAB	11/02/06	19:38:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0157.LAB	11/02/06	19:41:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0158.LAB	11/02/06	19:43:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0159.LAB	11/02/06	19:46:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	149.76	0.99
11X-F RUN 1 11 02 06 SAMPLE_0160.LAB	11/02/06	19:49:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0161.LAB	11/02/06	19:51:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.97
11X-F RUN 1 11 02 06 SAMPLE_0162.LAB	11/02/06	19:54:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0163.LAB	11/02/06	19:57:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0164.LAB	11/02/06	19:59:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.96
11X-F RUN 1 11 02 06 SAMPLE_0165.LAB	11/02/06	20:02:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0166.LAB	11/02/06	20:05:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0167.LAB	11/02/06	20:07:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0168.LAB	11/02/06	20:10:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0169.LAB	11/02/06	20:13:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.21	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0170.LAB	11/02/06	20:15:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0171.LAB	11/02/06	20:18:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	0.99

10s.8.1a (Fab 11X) Fab Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 1 11 02 06 SAMPLE_0172.LAB	11/02/06	20:21:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.22	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0173.LAB	11/02/06	20:23:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0174.LAB	11/02/06	20:26:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0175.LAB	11/02/06	20:29:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0176.LAB	11/02/06	20:31:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0177.LAB	11/02/06	20:34:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.22	150.51	0.99
11X-F RUN 1 11 02 06 SAMPLE_0178.LAB	11/02/06	20:37:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.22	150.51	1.00
11X-F RUN 1 11 02 06 SAMPLE_0179.LAB	11/02/06	20:39:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.98
11X-F RUN 1 11 02 06 SAMPLE_0180.LAB	11/02/06	20:42:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.97
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.213		

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10s.8.1a (Fab 11X) Fab Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0000	11/10/06	11:41:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0001	11/10/06	11:43:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0002	11/10/06	11:46:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0003	11/10/06	11:49:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0004	11/10/06	11:51:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0005	11/10/06	11:54:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.24	150.51	1.02
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0006	11/10/06	11:57:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.24	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0007	11/10/06	11:59:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.24	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0008	11/10/06	12:02:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.22	150.51	1.02
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0009	11/10/06	12:05:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.24	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0010	11/10/06	12:07:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0011	11/10/06	12:10:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0012	11/10/06	12:13:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0013	11/10/06	12:15:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	149.76	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0014	11/10/06	12:18:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0015	11/10/06	12:21:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0016	11/10/06	12:23:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0017	11/10/06	12:26:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0018	11/10/06	12:29:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0019	11/10/06	12:31:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0020	11/10/06	12:34:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0021	11/10/06	12:36:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0022	11/10/06	12:39:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.24	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0023	11/10/06	12:42:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0024	11/10/06	12:44:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0025	11/10/06	12:47:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.24	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0026	11/10/06	12:50:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0027	11/10/06	12:52:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0028	11/10/06	12:55:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0029	11/10/06	12:58:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0030	11/10/06	13:00:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0031	11/10/06	13:03:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0032	11/10/06	13:06:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0033	11/10/06	13:08:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0034	11/10/06	13:11:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0035	11/10/06	13:14:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0036	11/10/06	13:16:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0037	11/10/06	13:19:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0038	11/10/06	13:22:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0039	11/10/06	13:24:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0040	11/10/06	13:27:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98

10s.8.1a (Fab 11X) Fab Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0041	11/10/06	13:30:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0042	11/10/06	13:32:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0043	11/10/06	13:35:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0044	11/10/06	13:38:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0045	11/10/06	13:40:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0046	11/10/06	13:43:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0047	11/10/06	13:46:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0048	11/10/06	13:48:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0049	11/10/06	13:51:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0050	11/10/06	13:54:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0051	11/10/06	13:56:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0052	11/10/06	13:59:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0053	11/10/06	14:02:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0054	11/10/06	14:04:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	149.76	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0055	11/10/06	14:07:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0056	11/10/06	14:10:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0057	11/10/06	14:12:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0058	11/10/06	14:15:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0059	11/10/06	14:17:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0060	11/10/06	14:20:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0061	11/10/06	14:23:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.96
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0062	11/10/06	14:25:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0063	11/10/06	14:28:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0064	11/10/06	14:31:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0065	11/10/06	14:33:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0066	11/10/06	14:36:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0067	11/10/06	14:39:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0068	11/10/06	14:41:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0069	11/10/06	14:44:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.22	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0070	11/10/06	14:47:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0071	11/10/06	14:49:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0072	11/10/06	14:52:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0073	11/10/06	14:55:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0074	11/10/06	14:57:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0075	11/10/06	15:00:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0076	11/10/06	15:03:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	149.76	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0077	11/10/06	15:05:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0078	11/10/06	15:08:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0079	11/10/06	15:11:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0080	11/10/06	15:13:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.22	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0081	11/10/06	15:16:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	1.00

10s.8.1a (Fab 11X) Fab Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0082	11/10/06	15:19:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0083	11/10/06	15:21:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0084	11/10/06	15:24:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0085	11/10/06	15:27:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.22	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0086	11/10/06	15:29:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0087	11/10/06	15:32:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0088	11/10/06	15:35:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0089	11/10/06	15:37:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0090	11/10/06	15:40:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0091	11/10/06	15:42:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0092	11/10/06	15:45:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0093	11/10/06	15:48:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	149.76	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0094	11/10/06	15:50:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0095	11/10/06	15:53:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0096	11/10/06	15:56:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0097	11/10/06	15:58:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.22	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0098	11/10/06	16:01:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0099	11/10/06	16:04:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0100	11/10/06	16:06:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.23	149.76	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0101	11/10/06	16:09:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0102	11/10/06	16:12:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.23	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0103	11/10/06	16:14:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0104	11/10/06	16:17:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.22	149.76	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0105	11/10/06	16:20:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.30	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0106	11/10/06	16:22:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.30	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0107	11/10/06	16:25:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.29	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0108	11/10/06	16:28:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.29	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0109	11/10/06	16:30:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.29	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0110	11/10/06	16:33:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.28	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0111	11/10/06	16:36:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.29	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0112	11/10/06	16:38:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.29	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0113	11/10/06	16:41:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.28	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0114	11/10/06	16:44:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.29	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0115	11/10/06	16:46:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.28	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0116	11/10/06	16:49:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.29	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0117	11/10/06	16:51:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.27	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0118	11/10/06	16:54:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.27	149.76	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0119	11/10/06	16:57:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.26	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0120	11/10/06	16:59:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.25	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0121	11/10/06	17:02:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.25	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0122	11/10/06	17:05:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.25	150.51	1.00

10s.8.1a (Fab 11X) Fab Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0123	11/10/06	17:07:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.26	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0124	11/10/06	17:10:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.25	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0125	11/10/06	17:13:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.26	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0126	11/10/06	17:15:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.25	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0127	11/10/06	17:18:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.25	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0128	11/10/06	17:21:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.26	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0129	11/10/06	17:23:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.26	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0130	11/10/06	17:26:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.26	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0131	11/10/06	17:29:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.26	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0132	11/10/06	17:31:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.25	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0133	11/10/06	17:34:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.25	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0134	11/10/06	17:37:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.25	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0135	11/10/06	17:39:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.25	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0136	11/10/06	17:42:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.26	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0137	11/10/06	17:44:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.26	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0138	11/10/06	17:47:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.25	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0139	11/10/06	17:50:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.26	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0140	11/10/06	17:52:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.26	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0141	11/10/06	17:55:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.25	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0142	11/10/06	17:58:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.25	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0143	11/10/06	18:00:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.24	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0144	11/10/06	18:03:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.24	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0145	11/10/06	18:06:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0146	11/10/06	18:08:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.24	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0147	11/10/06	18:11:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0148	11/10/06	18:14:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0149	11/10/06	18:16:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0150	11/10/06	18:19:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.24	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0151	11/10/06	18:22:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0152	11/10/06	18:24:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.24	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0153	11/10/06	18:27:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0154	11/10/06	18:30:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0155	11/10/06	18:32:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	149.76	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0156	11/10/06	18:35:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0157	11/10/06	18:37:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	149.76	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0158	11/10/06	18:40:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	149.76	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0159	11/10/06	18:43:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0160	11/10/06	18:45:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0161	11/10/06	18:48:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0162	11/10/06	18:51:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	149.76	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0163	11/10/06	18:53:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.22	150.51	1.01

10s.8.1a (Fab 11X) Fab Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0164	11/10/06	18:56:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.23	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0165	11/10/06	18:59:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0166	11/10/06	19:01:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0167	11/10/06	19:04:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0168	11/10/06	19:07:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.22	150.51	1.01
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0169	11/10/06	19:09:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0170	11/10/06	19:12:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0171	11/10/06	19:15:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	149.76	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0172	11/10/06	19:17:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0173	11/10/06	19:20:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0174	11/10/06	19:23:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0175	11/10/06	19:25:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.98
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0176	11/10/06	19:28:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0177	11/10/06	19:30:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.22	150.51	0.99
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0178	11/10/06	19:33:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.22	150.51	1.00
11X-F RUN 2 11 10 06 SAMPLE RUN 2_0179	11/10/06	19:36:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	1.00
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.235		

10s.8.1a (Fab 11X) Fab Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 3 11 16 06 SAMPLE_0000.LAB	11/16/06	9:33:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0001.LAB	11/16/06	9:35:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0002.LAB	11/16/06	9:38:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0003.LAB	11/16/06	9:41:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0004.LAB	11/16/06	9:43:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0005.LAB	11/16/06	9:46:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0006.LAB	11/16/06	9:48:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0007.LAB	11/16/06	9:51:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0008.LAB	11/16/06	9:54:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0009.LAB	11/16/06	9:56:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0010.LAB	11/16/06	9:59:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0011.LAB	11/16/06	10:02:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0012.LAB	11/16/06	10:04:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0013.LAB	11/16/06	10:07:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0014.LAB	11/16/06	10:10:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0015.LAB	11/16/06	10:12:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0016.LAB	11/16/06	10:15:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.99
11X-F RUN 3 11 16 06 SAMPLE_0017.LAB	11/16/06	10:18:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0018.LAB	11/16/06	10:20:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0019.LAB	11/16/06	10:23:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0020.LAB	11/16/06	10:25:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0021.LAB	11/16/06	10:28:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0022.LAB	11/16/06	10:31:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.13	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0023.LAB	11/16/06	10:33:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0024.LAB	11/16/06	10:36:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0025.LAB	11/16/06	10:39:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0026.LAB	11/16/06	10:41:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0027.LAB	11/16/06	10:44:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0028.LAB	11/16/06	10:47:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0029.LAB	11/16/06	10:49:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0030.LAB	11/16/06	10:52:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0031.LAB	11/16/06	10:55:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0032.LAB	11/16/06	10:57:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0033.LAB	11/16/06	11:00:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0034.LAB	11/16/06	11:03:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0035.LAB	11/16/06	11:05:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0036.LAB	11/16/06	11:08:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0037.LAB	11/16/06	11:11:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0038.LAB	11/16/06	11:13:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0039.LAB	11/16/06	11:16:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0040.LAB	11/16/06	11:19:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.97

10s.8.1a (Fab 11X) Fab Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 3 11 16 06 SAMPLE_0041.LAB	11/16/06	11:21:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0042.LAB	11/16/06	11:24:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0043.LAB	11/16/06	11:27:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0044.LAB	11/16/06	11:29:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0045.LAB	11/16/06	11:32:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0046.LAB	11/16/06	11:35:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0047.LAB	11/16/06	11:37:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.13	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0048.LAB	11/16/06	11:40:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0049.LAB	11/16/06	11:43:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0050.LAB	11/16/06	11:45:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0051.LAB	11/16/06	11:48:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0052.LAB	11/16/06	11:51:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0053.LAB	11/16/06	11:53:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0054.LAB	11/16/06	11:56:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.12	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0055.LAB	11/16/06	11:59:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0056.LAB	11/16/06	12:01:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0057.LAB	11/16/06	12:04:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0058.LAB	11/16/06	12:07:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.12	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0059.LAB	11/16/06	12:09:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0060.LAB	11/16/06	12:12:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0061.LAB	11/16/06	12:15:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.12	150.51	0.98
11X-F RUN 3 11 16 06 SAMPLE_0062.LAB	11/16/06	12:17:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.12	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0063.LAB	11/16/06	12:20:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0064.LAB	11/16/06	12:23:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.13	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0065.LAB	11/16/06	12:25:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0066.LAB	11/16/06	12:28:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.12	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0067.LAB	11/16/06	12:31:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.12	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0068.LAB	11/16/06	12:33:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.15	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0069.LAB	11/16/06	12:36:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.35	150.51	0.94
11X-F RUN 3 11 16 06 SAMPLE_0070.LAB	11/16/06	12:39:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.34	150.51	0.94
11X-F RUN 3 11 16 06 SAMPLE_0071.LAB	11/16/06	12:41:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0072.LAB	11/16/06	12:44:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0073.LAB	11/16/06	12:47:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.37	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0074.LAB	11/16/06	12:49:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0075.LAB	11/16/06	12:52:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0076.LAB	11/16/06	12:55:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0077.LAB	11/16/06	12:57:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0078.LAB	11/16/06	13:00:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.35	149.76	0.95
11X-F RUN 3 11 16 06 SAMPLE_0079.LAB	11/16/06	13:03:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0080.LAB	11/16/06	13:05:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0081.LAB	11/16/06	13:08:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.35	150.51	0.95

10s.8.1a (Fab 11X) Fab Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 3 11 16 06 SAMPLE_0082.LAB	11/16/06	13:10:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0083.LAB	11/16/06	13:13:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0084.LAB	11/16/06	13:16:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0085.LAB	11/16/06	13:18:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0086.LAB	11/16/06	13:21:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0087.LAB	11/16/06	13:24:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0088.LAB	11/16/06	13:26:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0089.LAB	11/16/06	13:29:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0090.LAB	11/16/06	13:32:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0091.LAB	11/16/06	13:34:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0092.LAB	11/16/06	13:37:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0093.LAB	11/16/06	13:40:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0094.LAB	11/16/06	13:42:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.36	149.76	0.95
11X-F RUN 3 11 16 06 SAMPLE_0095.LAB	11/16/06	13:45:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0096.LAB	11/16/06	13:48:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0097.LAB	11/16/06	13:50:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0098.LAB	11/16/06	13:53:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0099.LAB	11/16/06	13:56:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0100.LAB	11/16/06	13:58:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0101.LAB	11/16/06	14:01:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0102.LAB	11/16/06	14:04:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0103.LAB	11/16/06	14:06:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0104.LAB	11/16/06	14:09:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0105.LAB	11/16/06	14:12:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0106.LAB	11/16/06	14:14:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.36	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0107.LAB	11/16/06	14:17:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0108.LAB	11/16/06	14:19:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0109.LAB	11/16/06	14:22:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0110.LAB	11/16/06	14:25:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0111.LAB	11/16/06	14:27:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0112.LAB	11/16/06	14:30:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0113.LAB	11/16/06	14:33:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0114.LAB	11/16/06	14:35:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0115.LAB	11/16/06	14:38:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0116.LAB	11/16/06	14:41:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0117.LAB	11/16/06	14:43:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0118.LAB	11/16/06	14:46:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0119.LAB	11/16/06	14:49:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0120.LAB	11/16/06	14:51:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0121.LAB	11/16/06	14:54:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0122.LAB	11/16/06	14:57:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.35	150.51	0.95

10s.8.1a (Fab 11X) Fab Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 3 11 16 06 SAMPLE_0123.LAB	11/16/06	14:59:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.33	149.76	0.97
11X-F RUN 3 11 16 06 SAMPLE_0124.LAB	11/16/06	15:02:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0125.LAB	11/16/06	15:05:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0126.LAB	11/16/06	15:07:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0127.LAB	11/16/06	15:10:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0128.LAB	11/16/06	15:13:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0129.LAB	11/16/06	15:15:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0130.LAB	11/16/06	15:18:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0131.LAB	11/16/06	15:20:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0132.LAB	11/16/06	15:23:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0133.LAB	11/16/06	15:26:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0134.LAB	11/16/06	15:28:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.33	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0135.LAB	11/16/06	15:31:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.33	149.76	0.96
11X-F RUN 3 11 16 06 SAMPLE_0136.LAB	11/16/06	15:34:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0137.LAB	11/16/06	15:36:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0138.LAB	11/16/06	15:39:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0139.LAB	11/16/06	15:42:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0140.LAB	11/16/06	15:44:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0141.LAB	11/16/06	15:47:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0142.LAB	11/16/06	15:50:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0143.LAB	11/16/06	15:52:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0144.LAB	11/16/06	15:55:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0145.LAB	11/16/06	15:58:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0146.LAB	11/16/06	16:00:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0147.LAB	11/16/06	16:03:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0148.LAB	11/16/06	16:06:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0149.LAB	11/16/06	16:08:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0150.LAB	11/16/06	16:11:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0151.LAB	11/16/06	16:14:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0152.LAB	11/16/06	16:16:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0153.LAB	11/16/06	16:19:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0154.LAB	11/16/06	16:21:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0155.LAB	11/16/06	16:24:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0156.LAB	11/16/06	16:27:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0157.LAB	11/16/06	16:29:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0158.LAB	11/16/06	16:32:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0159.LAB	11/16/06	16:35:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0160.LAB	11/16/06	16:37:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0161.LAB	11/16/06	16:40:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0162.LAB	11/16/06	16:43:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0163.LAB	11/16/06	16:45:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.33	150.51	0.97

10s.8.1a (Fab 11X) Fab Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-F RUN 3 11 16 06 SAMPLE_0164.LAB	11/16/06	16:48:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0165.LAB	11/16/06	16:51:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0166.LAB	11/16/06	16:53:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0167.LAB	11/16/06	16:56:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0168.LAB	11/16/06	16:59:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0169.LAB	11/16/06	17:01:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.33	149.76	0.97
11X-F RUN 3 11 16 06 SAMPLE_0170.LAB	11/16/06	17:04:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0171.LAB	11/16/06	17:06:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0172.LAB	11/16/06	17:09:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0173.LAB	11/16/06	17:12:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0174.LAB	11/16/06	17:14:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.33	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0175.LAB	11/16/06	17:17:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	149.76	0.96
11X-F RUN 3 11 16 06 SAMPLE_0176.LAB	11/16/06	17:20:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.34	150.51	0.96
11X-F RUN 3 11 16 06 SAMPLE_0177.LAB	11/16/06	17:22:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0178.LAB	11/16/06	17:25:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.35	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0179.LAB	11/16/06	17:28:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.34	150.51	0.95
11X-F RUN 3 11 16 06 SAMPLE_0180.LAB	11/16/06	17:30:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.34	150.51	0.97
11X-F RUN 3 11 16 06 SAMPLE_0181.LAB	11/16/06	17:33:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.33	150.51	0.97
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.259		

APPENDIX A-2
FT-IR Data
FAB 11X-Bridge Side; 11s.8.2abc

11s.8.2abc (Fab 11X) Bridge Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 1 11 29 06 SAMPLE_0000.LAB	11/29/06	10:16:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0001.LAB	11/29/06	10:19:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0002.LAB	11/29/06	10:21:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0003.LAB	11/29/06	10:24:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0004.LAB	11/29/06	10:27:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0005.LAB	11/29/06	10:29:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0006.LAB	11/29/06	10:32:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0007.LAB	11/29/06	10:35:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0008.LAB	11/29/06	10:37:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0009.LAB	11/29/06	10:40:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0010.LAB	11/29/06	10:42:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0011.LAB	11/29/06	10:45:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0012.LAB	11/29/06	10:48:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0013.LAB	11/29/06	10:50:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0014.LAB	11/29/06	10:53:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0015.LAB	11/29/06	10:56:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0016.LAB	11/29/06	10:58:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0017.LAB	11/29/06	11:01:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0018.LAB	11/29/06	11:04:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0019.LAB	11/29/06	11:06:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	149.76	0.99
11X-B RUN 1 11 29 06 SAMPLE_0020.LAB	11/29/06	11:09:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0021.LAB	11/29/06	11:12:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.20	149.76	0.99
11X-B RUN 1 11 29 06 SAMPLE_0022.LAB	11/29/06	11:14:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0023.LAB	11/29/06	11:17:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0024.LAB	11/29/06	11:19:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.20	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0025.LAB	11/29/06	11:22:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.10	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0026.LAB	11/29/06	11:25:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0027.LAB	11/29/06	11:27:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0028.LAB	11/29/06	11:30:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.10	0.20	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0029.LAB	11/29/06	11:33:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.14	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0030.LAB	11/29/06	11:35:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.20	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0031.LAB	11/29/06	11:38:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	0.21	149.76	0.99
11X-B RUN 1 11 29 06 SAMPLE_0032.LAB	11/29/06	11:41:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0033.LAB	11/29/06	11:43:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.16	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0034.LAB	11/29/06	11:46:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0035.LAB	11/29/06	11:49:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0036.LAB	11/29/06	11:51:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.21	149.76	0.99
11X-B RUN 1 11 29 06 SAMPLE_0037.LAB	11/29/06	11:54:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0038.LAB	11/29/06	11:56:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.20	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0039.LAB	11/29/06	11:59:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.20	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0040.LAB	11/29/06	12:02:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.20	150.51	1.00

11s.8.2abc (Fab 11X) Bridge Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 1 11 29 06 SAMPLE_0041.LAB	11/29/06	12:04:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.20	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0042.LAB	11/29/06	12:07:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0043.LAB	11/29/06	12:10:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0044.LAB	11/29/06	12:12:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.20	149.76	0.99
11X-B RUN 1 11 29 06 SAMPLE_0045.LAB	11/29/06	12:15:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0046.LAB	11/29/06	12:18:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0047.LAB	11/29/06	12:20:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0048.LAB	11/29/06	12:23:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0049.LAB	11/29/06	12:26:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0050.LAB	11/29/06	12:28:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0051.LAB	11/29/06	12:31:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0052.LAB	11/29/06	12:33:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0053.LAB	11/29/06	12:36:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0054.LAB	11/29/06	12:39:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.20	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0055.LAB	11/29/06	12:41:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0056.LAB	11/29/06	12:44:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0057.LAB	11/29/06	12:47:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0058.LAB	11/29/06	12:49:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0059.LAB	11/29/06	12:52:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0060.LAB	11/29/06	12:55:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0061.LAB	11/29/06	12:57:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0062.LAB	11/29/06	13:00:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0063.LAB	11/29/06	13:03:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0064.LAB	11/29/06	13:05:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0065.LAB	11/29/06	13:08:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0066.LAB	11/29/06	13:10:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0067.LAB	11/29/06	13:13:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0068.LAB	11/29/06	13:16:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0069.LAB	11/29/06	13:18:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0070.LAB	11/29/06	13:21:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.20	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0071.LAB	11/29/06	13:24:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0072.LAB	11/29/06	13:26:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0073.LAB	11/29/06	13:29:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0074.LAB	11/29/06	13:32:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0075.LAB	11/29/06	13:34:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.20	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0076.LAB	11/29/06	13:37:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0077.LAB	11/29/06	13:40:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0078.LAB	11/29/06	13:42:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0079.LAB	11/29/06	13:45:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0080.LAB	11/29/06	13:48:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0081.LAB	11/29/06	13:50:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98

11s.8.2abc (Fab 11X) Bridge Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 1 11 29 06 SAMPLE_0082.LAB	11/29/06	13:53:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0083.LAB	11/29/06	13:56:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.96
11X-B RUN 1 11 29 06 SAMPLE_0084.LAB	11/29/06	13:58:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0085.LAB	11/29/06	14:01:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0086.LAB	11/29/06	14:03:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0087.LAB	11/29/06	14:06:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0088.LAB	11/29/06	14:09:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0089.LAB	11/29/06	14:11:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0090.LAB	11/29/06	14:14:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0091.LAB	11/29/06	14:17:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0092.LAB	11/29/06	14:19:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0093.LAB	11/29/06	14:22:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0094.LAB	11/29/06	14:25:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0095.LAB	11/29/06	14:27:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0096.LAB	11/29/06	14:30:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0097.LAB	11/29/06	14:33:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0098.LAB	11/29/06	14:35:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	149.76	0.98
11X-B RUN 1 11 29 06 SAMPLE_0099.LAB	11/29/06	14:38:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0100.LAB	11/29/06	14:41:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0101.LAB	11/29/06	14:43:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0102.LAB	11/29/06	14:46:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0103.LAB	11/29/06	14:49:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0104.LAB	11/29/06	14:51:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0105.LAB	11/29/06	14:54:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	149.76	0.96
11X-B RUN 1 11 29 06 SAMPLE_0106.LAB	11/29/06	14:56:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.18	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0107.LAB	11/29/06	14:59:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0108.LAB	11/29/06	15:02:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0109.LAB	11/29/06	15:04:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0110.LAB	11/29/06	15:07:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.21	150.51	0.97
11X-B RUN 1 11 29 06 SAMPLE_0111.LAB	11/29/06	15:10:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.16	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0112.LAB	11/29/06	15:12:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.15	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0113.LAB	11/29/06	15:15:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.16	0.21	150.51	0.97
11X-B RUN 1 11 29 06 SAMPLE_0114.LAB	11/29/06	15:18:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0115.LAB	11/29/06	15:20:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.14	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0116.LAB	11/29/06	15:23:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.20	0.21	150.51	0.97
11X-B RUN 1 11 29 06 SAMPLE_0117.LAB	11/29/06	15:26:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.13	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0118.LAB	11/29/06	15:28:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0119.LAB	11/29/06	15:31:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.10	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0120.LAB	11/29/06	15:34:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0121.LAB	11/29/06	15:36:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.16	0.21	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0122.LAB	11/29/06	15:39:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.15	0.20	150.51	1.00

11s.8.2abc (Fab 11X) Bridge Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 1 11 29 06 SAMPLE_0123.LAB	11/29/06	15:42:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0124.LAB	11/29/06	15:44:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.13	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0125.LAB	11/29/06	15:47:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	0.21	150.51	0.97
11X-B RUN 1 11 29 06 SAMPLE_0126.LAB	11/29/06	15:49:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0127.LAB	11/29/06	15:52:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0128.LAB	11/29/06	15:55:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0129.LAB	11/29/06	15:57:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0130.LAB	11/29/06	16:00:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0131.LAB	11/29/06	16:03:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0132.LAB	11/29/06	16:05:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0133.LAB	11/29/06	16:08:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0134.LAB	11/29/06	16:11:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0135.LAB	11/29/06	16:13:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0136.LAB	11/29/06	16:16:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0137.LAB	11/29/06	16:19:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0138.LAB	11/29/06	16:21:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0139.LAB	11/29/06	16:24:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.21	149.76	0.99
11X-B RUN 1 11 29 06 SAMPLE_0140.LAB	11/29/06	16:26:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0141.LAB	11/29/06	16:29:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0142.LAB	11/29/06	16:32:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0143.LAB	11/29/06	16:34:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0144.LAB	11/29/06	16:37:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0145.LAB	11/29/06	16:40:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0146.LAB	11/29/06	16:42:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0147.LAB	11/29/06	16:45:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0148.LAB	11/29/06	16:48:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0149.LAB	11/29/06	16:50:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0150.LAB	11/29/06	16:53:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0151.LAB	11/29/06	16:56:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0152.LAB	11/29/06	16:58:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0153.LAB	11/29/06	17:01:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0154.LAB	11/29/06	17:04:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0155.LAB	11/29/06	17:06:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0156.LAB	11/29/06	17:09:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0157.LAB	11/29/06	17:11:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0158.LAB	11/29/06	17:14:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.21	150.51	0.98
11X-B RUN 1 11 29 06 SAMPLE_0159.LAB	11/29/06	17:17:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0160.LAB	11/29/06	17:19:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.21	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0161.LAB	11/29/06	17:22:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.21	149.76	0.99
11X-B RUN 1 11 29 06 SAMPLE_0162.LAB	11/29/06	17:25:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0163.LAB	11/29/06	17:27:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.21	150.51	1.00

11s.8.2abc (Fab 11X) Bridge Side Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 1 11 29 06 SAMPLE_0164.LAB	11/29/06	17:30:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0165.LAB	11/29/06	17:33:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0166.LAB	11/29/06	17:35:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0167.LAB	11/29/06	17:38:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	0.21	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0168.LAB	11/29/06	17:41:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.20	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0169.LAB	11/29/06	17:43:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0170.LAB	11/29/06	17:46:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0171.LAB	11/29/06	17:48:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0172.LAB	11/29/06	17:51:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.20	150.51	0.99
11X-B RUN 1 11 29 06 SAMPLE_0173.LAB	11/29/06	17:54:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.21	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0174.LAB	11/29/06	17:56:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0175.LAB	11/29/06	17:59:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	1.01
11X-B RUN 1 11 29 06 SAMPLE_0176.LAB	11/29/06	18:02:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0177.LAB	11/29/06	18:04:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0178.LAB	11/29/06	18:07:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.20	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0179.LAB	11/29/06	18:10:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	1.00
11X-B RUN 1 11 29 06 SAMPLE_0180.LAB	11/29/06	18:12:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.20	149.76	1.00
11X-B RUN 1 11 29 06 SAMPLE_0181.LAB	11/29/06	18:15:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.20	150.51	1.00
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.18	0.206		

11s.8.2abc (Fab 11X) Bridge Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 2 12 05 06 SAMPLE_0000.LAB	12/05/06	10:20:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0001.LAB	12/05/06	10:23:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0002.LAB	12/05/06	10:26:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0003.LAB	12/05/06	10:29:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0004.LAB	12/05/06	10:31:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0005.LAB	12/05/06	10:34:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0006.LAB	12/05/06	10:37:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0007.LAB	12/05/06	10:39:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0008.LAB	12/05/06	10:42:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0009.LAB	12/05/06	10:45:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0010.LAB	12/05/06	10:47:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0011.LAB	12/05/06	10:50:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0012.LAB	12/05/06	10:53:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0013.LAB	12/05/06	10:55:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0014.LAB	12/05/06	10:58:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0015.LAB	12/05/06	11:01:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0016.LAB	12/05/06	11:03:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0017.LAB	12/05/06	11:06:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0018.LAB	12/05/06	11:09:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0019.LAB	12/05/06	11:11:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	152.00	0.99
11X-B RUN 2 12 05 06 SAMPLE_0020.LAB	12/05/06	11:14:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0021.LAB	12/05/06	11:17:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0022.LAB	12/05/06	11:19:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0023.LAB	12/05/06	11:22:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0024.LAB	12/05/06	11:25:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0025.LAB	12/05/06	11:27:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0026.LAB	12/05/06	11:30:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0027.LAB	12/05/06	11:33:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0028.LAB	12/05/06	11:35:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.22	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0029.LAB	12/05/06	11:38:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0030.LAB	12/05/06	11:41:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0031.LAB	12/05/06	11:43:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0032.LAB	12/05/06	11:46:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0033.LAB	12/05/06	11:49:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0034.LAB	12/05/06	11:51:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0035.LAB	12/05/06	11:54:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0036.LAB	12/05/06	11:57:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0037.LAB	12/05/06	12:00:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0038.LAB	12/05/06	12:02:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0039.LAB	12/05/06	12:05:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0040.LAB	12/05/06	12:08:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99

11s.8.2abc (Fab 11X) Bridge Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 2 12 05 06 SAMPLE_0041.LAB	12/05/06	12:10:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0042.LAB	12/05/06	12:13:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0043.LAB	12/05/06	12:16:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0044.LAB	12/05/06	12:18:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0045.LAB	12/05/06	12:21:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0046.LAB	12/05/06	12:24:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0047.LAB	12/05/06	12:26:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0048.LAB	12/05/06	12:29:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0049.LAB	12/05/06	12:32:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0050.LAB	12/05/06	12:34:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0051.LAB	12/05/06	12:37:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0052.LAB	12/05/06	12:40:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0053.LAB	12/05/06	12:42:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0054.LAB	12/05/06	12:45:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0055.LAB	12/05/06	12:48:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0056.LAB	12/05/06	12:50:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0057.LAB	12/05/06	12:53:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0058.LAB	12/05/06	12:56:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0059.LAB	12/05/06	12:59:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0060.LAB	12/05/06	13:01:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0061.LAB	12/05/06	13:04:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0062.LAB	12/05/06	13:07:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.95
11X-B RUN 2 12 05 06 SAMPLE_0063.LAB	12/05/06	13:09:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0064.LAB	12/05/06	13:12:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	151.25	0.96
11X-B RUN 2 12 05 06 SAMPLE_0065.LAB	12/05/06	13:15:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0066.LAB	12/05/06	13:17:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0067.LAB	12/05/06	13:20:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0068.LAB	12/05/06	13:23:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0069.LAB	12/05/06	13:25:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0070.LAB	12/05/06	13:28:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0071.LAB	12/05/06	13:31:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0072.LAB	12/05/06	13:33:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0073.LAB	12/05/06	13:36:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0074.LAB	12/05/06	13:39:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0075.LAB	12/05/06	13:41:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0076.LAB	12/05/06	13:44:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0077.LAB	12/05/06	13:47:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0078.LAB	12/05/06	13:50:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0079.LAB	12/05/06	13:52:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0080.LAB	12/05/06	13:55:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0081.LAB	12/05/06	13:58:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99

11s.8.2abc (Fab 11X) Bridge Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 2 12 05 06 SAMPLE_0082.LAB	12/05/06	14:00:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.95
11X-B RUN 2 12 05 06 SAMPLE_0083.LAB	12/05/06	14:03:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0084.LAB	12/05/06	14:06:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0085.LAB	12/05/06	14:08:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0086.LAB	12/05/06	14:11:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.21	150.51	0.95
11X-B RUN 2 12 05 06 SAMPLE_0087.LAB	12/05/06	14:14:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0088.LAB	12/05/06	14:16:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0089.LAB	12/05/06	14:19:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0090.LAB	12/05/06	14:22:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0091.LAB	12/05/06	14:24:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0092.LAB	12/05/06	14:27:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0093.LAB	12/05/06	14:30:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.93	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0094.LAB	12/05/06	14:32:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0095.LAB	12/05/06	14:35:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0096.LAB	12/05/06	14:38:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0097.LAB	12/05/06	14:40:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0098.LAB	12/05/06	14:43:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0099.LAB	12/05/06	14:46:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0100.LAB	12/05/06	14:48:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0101.LAB	12/05/06	14:51:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	149.76	0.97
11X-B RUN 2 12 05 06 SAMPLE_0102.LAB	12/05/06	14:54:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.22	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0103.LAB	12/05/06	14:56:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0104.LAB	12/05/06	14:59:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0105.LAB	12/05/06	15:02:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0106.LAB	12/05/06	15:04:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0107.LAB	12/05/06	15:07:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0108.LAB	12/05/06	15:10:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0109.LAB	12/05/06	15:12:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0110.LAB	12/05/06	15:15:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0111.LAB	12/05/06	15:18:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0112.LAB	12/05/06	15:20:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0113.LAB	12/05/06	15:23:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0114.LAB	12/05/06	15:26:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0115.LAB	12/05/06	15:28:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0116.LAB	12/05/06	15:31:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0117.LAB	12/05/06	15:34:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0118.LAB	12/05/06	15:36:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0119.LAB	12/05/06	15:39:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0120.LAB	12/05/06	15:42:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0121.LAB	12/05/06	15:44:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0122.LAB	12/05/06	15:47:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99

11s.8.2abc (Fab 11X) Bridge Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 2 12 05 06 SAMPLE_0123.LAB	12/05/06	15:50:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0124.LAB	12/05/06	15:52:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0125.LAB	12/05/06	15:55:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0126.LAB	12/05/06	15:58:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0127.LAB	12/05/06	16:00:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0128.LAB	12/05/06	16:03:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0129.LAB	12/05/06	16:06:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0130.LAB	12/05/06	16:08:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0131.LAB	12/05/06	16:11:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0132.LAB	12/05/06	16:14:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0133.LAB	12/05/06	16:16:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0134.LAB	12/05/06	16:19:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0135.LAB	12/05/06	16:22:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0136.LAB	12/05/06	16:24:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0137.LAB	12/05/06	16:27:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0138.LAB	12/05/06	16:30:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	149.76	0.99
11X-B RUN 2 12 05 06 SAMPLE_0139.LAB	12/05/06	16:32:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0140.LAB	12/05/06	16:35:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0141.LAB	12/05/06	16:38:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0142.LAB	12/05/06	16:40:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0143.LAB	12/05/06	16:43:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0144.LAB	12/05/06	16:46:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0145.LAB	12/05/06	16:48:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0146.LAB	12/05/06	16:51:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0147.LAB	12/05/06	16:54:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0148.LAB	12/05/06	16:56:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0149.LAB	12/05/06	16:59:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0150.LAB	12/05/06	17:02:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0151.LAB	12/05/06	17:04:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0152.LAB	12/05/06	17:07:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0153.LAB	12/05/06	17:10:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0154.LAB	12/05/06	17:12:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0155.LAB	12/05/06	17:15:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0156.LAB	12/05/06	17:18:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0157.LAB	12/05/06	17:20:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0158.LAB	12/05/06	17:23:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0159.LAB	12/05/06	17:26:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0160.LAB	12/05/06	17:28:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0161.LAB	12/05/06	17:31:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0162.LAB	12/05/06	17:34:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0163.LAB	12/05/06	17:36:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.98

11s.8.2abc (Fab 11X) Bridge Side Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 2 12 05 06 SAMPLE_0164.LAB	12/05/06	17:39:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0165.LAB	12/05/06	17:42:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0166.LAB	12/05/06	17:44:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0167.LAB	12/05/06	17:47:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0168.LAB	12/05/06	17:50:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0169.LAB	12/05/06	17:52:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0170.LAB	12/05/06	17:55:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0171.LAB	12/05/06	17:58:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0172.LAB	12/05/06	18:00:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.97
11X-B RUN 2 12 05 06 SAMPLE_0173.LAB	12/05/06	18:03:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0174.LAB	12/05/06	18:06:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.20	150.51	1.00
11X-B RUN 2 12 05 06 SAMPLE_0175.LAB	12/05/06	18:08:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0176.LAB	12/05/06	18:11:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0177.LAB	12/05/06	18:14:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.21	150.51	0.96
11X-B RUN 2 12 05 06 SAMPLE_0178.LAB	12/05/06	18:16:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
11X-B RUN 2 12 05 06 SAMPLE_0179.LAB	12/05/06	18:19:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.20	150.51	0.99
11X-B RUN 2 12 05 06 SAMPLE_0180.LAB	12/05/06	18:22:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.21	150.51	0.98
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	0.208		

11s.8.2abc (Fab 11X) Bridge Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 3 12 11 06 SAMPLE_0000.LAB	12/11/06	10:41:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0001.LAB	12/11/06	10:44:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0002.LAB	12/11/06	10:46:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0003.LAB	12/11/06	10:49:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0004.LAB	12/11/06	10:52:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0005.LAB	12/11/06	10:54:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0006.LAB	12/11/06	10:57:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	149.76	0.98
11X-B RUN 3 12 11 06 SAMPLE_0007.LAB	12/11/06	11:00:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0008.LAB	12/11/06	11:02:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0009.LAB	12/11/06	11:05:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	149.76	1.00
11X-B RUN 3 12 11 06 SAMPLE_0010.LAB	12/11/06	11:08:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0011.LAB	12/11/06	11:10:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0012.LAB	12/11/06	11:13:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0013.LAB	12/11/06	11:16:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0014.LAB	12/11/06	11:18:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0015.LAB	12/11/06	11:21:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0016.LAB	12/11/06	11:24:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0017.LAB	12/11/06	11:26:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0018.LAB	12/11/06	11:29:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	149.76	0.99
11X-B RUN 3 12 11 06 SAMPLE_0019.LAB	12/11/06	11:32:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	149.76	0.97
11X-B RUN 3 12 11 06 SAMPLE_0020.LAB	12/11/06	11:34:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0021.LAB	12/11/06	11:37:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0022.LAB	12/11/06	11:40:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0023.LAB	12/11/06	11:42:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0024.LAB	12/11/06	11:45:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0025.LAB	12/11/06	11:48:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0026.LAB	12/11/06	11:50:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0027.LAB	12/11/06	11:53:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0028.LAB	12/11/06	11:56:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0029.LAB	12/11/06	11:58:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0030.LAB	12/11/06	12:01:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0031.LAB	12/11/06	12:04:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0032.LAB	12/11/06	12:06:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0033.LAB	12/11/06	12:09:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0034.LAB	12/11/06	12:12:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0035.LAB	12/11/06	12:14:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0036.LAB	12/11/06	12:17:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0037.LAB	12/11/06	12:20:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0038.LAB	12/11/06	12:22:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0039.LAB	12/11/06	12:25:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0040.LAB	12/11/06	12:28:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.98

11s.8.2abc (Fab 11X) Bridge Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 3 12 11 06 SAMPLE_0041.LAB	12/11/06	12:30:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0042.LAB	12/11/06	12:33:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0043.LAB	12/11/06	12:36:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0044.LAB	12/11/06	12:38:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0045.LAB	12/11/06	12:41:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0046.LAB	12/11/06	12:44:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0047.LAB	12/11/06	12:46:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0048.LAB	12/11/06	12:49:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0049.LAB	12/11/06	12:52:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0050.LAB	12/11/06	12:54:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0051.LAB	12/11/06	12:57:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0052.LAB	12/11/06	13:00:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0053.LAB	12/11/06	13:02:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0054.LAB	12/11/06	13:05:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0055.LAB	12/11/06	13:08:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0056.LAB	12/11/06	13:10:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0057.LAB	12/11/06	13:13:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0058.LAB	12/11/06	13:16:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0059.LAB	12/11/06	13:18:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0060.LAB	12/11/06	13:21:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0061.LAB	12/11/06	13:24:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0062.LAB	12/11/06	13:26:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0063.LAB	12/11/06	13:29:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0064.LAB	12/11/06	13:32:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0065.LAB	12/11/06	13:34:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0066.LAB	12/11/06	13:37:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0067.LAB	12/11/06	13:40:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0068.LAB	12/11/06	13:42:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0069.LAB	12/11/06	13:45:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0070.LAB	12/11/06	13:48:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0071.LAB	12/11/06	13:50:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0072.LAB	12/11/06	13:53:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	149.76	0.98
11X-B RUN 3 12 11 06 SAMPLE_0073.LAB	12/11/06	13:56:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0074.LAB	12/11/06	13:58:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0075.LAB	12/11/06	14:01:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0076.LAB	12/11/06	14:04:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.20	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0077.LAB	12/11/06	14:06:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0078.LAB	12/11/06	14:09:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0079.LAB	12/11/06	14:12:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0080.LAB	12/11/06	14:14:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0081.LAB	12/11/06	14:17:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97

11s.8.2abc (Fab 11X) Bridge Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 3 12 11 06 SAMPLE_0082.LAB	12/11/06	14:20:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0083.LAB	12/11/06	14:22:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0084.LAB	12/11/06	14:25:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0085.LAB	12/11/06	14:28:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0086.LAB	12/11/06	14:30:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0087.LAB	12/11/06	14:33:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0088.LAB	12/11/06	14:36:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0089.LAB	12/11/06	14:38:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0090.LAB	12/11/06	14:41:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0091.LAB	12/11/06	14:44:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0092.LAB	12/11/06	14:46:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0093.LAB	12/11/06	14:49:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0094.LAB	12/11/06	14:52:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0095.LAB	12/11/06	14:54:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0096.LAB	12/11/06	14:57:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0097.LAB	12/11/06	15:00:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0098.LAB	12/11/06	15:02:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0099.LAB	12/11/06	15:05:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0100.LAB	12/11/06	15:08:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0101.LAB	12/11/06	15:10:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0102.LAB	12/11/06	15:13:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0103.LAB	12/11/06	15:16:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0104.LAB	12/11/06	15:18:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0105.LAB	12/11/06	15:21:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0106.LAB	12/11/06	15:24:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0107.LAB	12/11/06	15:26:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0108.LAB	12/11/06	15:29:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0109.LAB	12/11/06	15:32:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0110.LAB	12/11/06	15:34:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0111.LAB	12/11/06	15:37:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0112.LAB	12/11/06	15:40:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0113.LAB	12/11/06	15:42:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0114.LAB	12/11/06	15:45:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0115.LAB	12/11/06	15:48:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0116.LAB	12/11/06	15:51:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0117.LAB	12/11/06	15:53:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0118.LAB	12/11/06	15:56:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	149.76	0.96
11X-B RUN 3 12 11 06 SAMPLE_0119.LAB	12/11/06	15:59:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0120.LAB	12/11/06	16:01:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0121.LAB	12/11/06	16:04:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0122.LAB	12/11/06	16:07:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	1.00

11s.8.2abc (Fab 11X) Bridge Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 3 12 11 06 SAMPLE_0123.LAB	12/11/06	16:09:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0124.LAB	12/11/06	16:12:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0125.LAB	12/11/06	16:15:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0126.LAB	12/11/06	16:17:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0127.LAB	12/11/06	16:20:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0128.LAB	12/11/06	16:23:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0129.LAB	12/11/06	16:25:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0130.LAB	12/11/06	16:28:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0131.LAB	12/11/06	16:31:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0132.LAB	12/11/06	16:33:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	149.76	0.99
11X-B RUN 3 12 11 06 SAMPLE_0133.LAB	12/11/06	16:36:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0134.LAB	12/11/06	16:39:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0135.LAB	12/11/06	16:41:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0136.LAB	12/11/06	16:44:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	149.76	0.97
11X-B RUN 3 12 11 06 SAMPLE_0137.LAB	12/11/06	16:47:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0138.LAB	12/11/06	16:49:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0139.LAB	12/11/06	16:52:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0140.LAB	12/11/06	16:55:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0141.LAB	12/11/06	16:57:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0142.LAB	12/11/06	17:00:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0143.LAB	12/11/06	17:03:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0144.LAB	12/11/06	17:05:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0145.LAB	12/11/06	17:08:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0146.LAB	12/11/06	17:11:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0147.LAB	12/11/06	17:13:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0148.LAB	12/11/06	17:16:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0149.LAB	12/11/06	17:19:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0150.LAB	12/11/06	17:21:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0151.LAB	12/11/06	17:24:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.21	150.51	0.96
11X-B RUN 3 12 11 06 SAMPLE_0152.LAB	12/11/06	17:27:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0153.LAB	12/11/06	17:29:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0154.LAB	12/11/06	17:32:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0155.LAB	12/11/06	17:35:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0156.LAB	12/11/06	17:37:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0157.LAB	12/11/06	17:40:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0158.LAB	12/11/06	17:43:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0159.LAB	12/11/06	17:45:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0160.LAB	12/11/06	17:48:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0161.LAB	12/11/06	17:51:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0162.LAB	12/11/06	17:53:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0163.LAB	12/11/06	17:56:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.21	150.51	0.97

11s.8.2abc (Fab 11X) Bridge Side Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11X-B RUN 3 12 11 06 SAMPLE_0164.LAB	12/11/06	17:59:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0165.LAB	12/11/06	18:01:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0166.LAB	12/11/06	18:04:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0167.LAB	12/11/06	18:07:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0168.LAB	12/11/06	18:09:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0169.LAB	12/11/06	18:12:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0170.LAB	12/11/06	18:15:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0171.LAB	12/11/06	18:17:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0172.LAB	12/11/06	18:20:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0173.LAB	12/11/06	18:23:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	0.99
11X-B RUN 3 12 11 06 SAMPLE_0174.LAB	12/11/06	18:25:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.21	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0175.LAB	12/11/06	18:28:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0176.LAB	12/11/06	18:31:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0177.LAB	12/11/06	18:33:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.21	150.51	0.98
11X-B RUN 3 12 11 06 SAMPLE_0178.LAB	12/11/06	18:36:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	0.20	150.51	1.00
11X-B RUN 3 12 11 06 SAMPLE_0179.LAB	12/11/06	18:39:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0180.LAB	12/11/06	18:41:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.21	150.51	0.97
11X-B RUN 3 12 11 06 SAMPLE_0181.LAB	12/11/06	18:44:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	0.21	150.51	1.00
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.207		

APPENDIX A-3
FT-IR Data
FAB 11S; 11s.8.1abc

11s.8.1abc (Fab 11S) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 30 06 SAMPLE_0000.LAB	11/30/06	10:05:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0001.LAB	11/30/06	10:07:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.01
11S RUN 1 11 30 06 SAMPLE_0002.LAB	11/30/06	10:10:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	149.76	1.00
11S RUN 1 11 30 06 SAMPLE_0003.LAB	11/30/06	10:12:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0004.LAB	11/30/06	10:15:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0005.LAB	11/30/06	10:18:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0006.LAB	11/30/06	10:20:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0007.LAB	11/30/06	10:23:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0008.LAB	11/30/06	10:26:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0009.LAB	11/30/06	10:28:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0010.LAB	11/30/06	10:31:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0011.LAB	11/30/06	10:34:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0012.LAB	11/30/06	10:36:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0013.LAB	11/30/06	10:39:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0014.LAB	11/30/06	10:42:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0015.LAB	11/30/06	10:44:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0016.LAB	11/30/06	10:47:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0017.LAB	11/30/06	10:50:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0018.LAB	11/30/06	10:52:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0019.LAB	11/30/06	10:55:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0020.LAB	11/30/06	10:58:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0021.LAB	11/30/06	11:00:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0022.LAB	11/30/06	11:03:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0023.LAB	11/30/06	11:06:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0024.LAB	11/30/06	11:08:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0025.LAB	11/30/06	11:11:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.01
11S RUN 1 11 30 06 SAMPLE_0026.LAB	11/30/06	11:14:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0027.LAB	11/30/06	11:16:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0028.LAB	11/30/06	11:19:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0029.LAB	11/30/06	11:22:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0030.LAB	11/30/06	11:24:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0031.LAB	11/30/06	11:27:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	149.76	1.00
11S RUN 1 11 30 06 SAMPLE_0032.LAB	11/30/06	11:29:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0033.LAB	11/30/06	11:32:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0034.LAB	11/30/06	11:35:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0035.LAB	11/30/06	11:37:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0036.LAB	11/30/06	11:40:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0037.LAB	11/30/06	11:43:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0038.LAB	11/30/06	11:45:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0039.LAB	11/30/06	11:48:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0040.LAB	11/30/06	11:51:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00

11s.8.1abc (Fab 11S) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 30 06 SAMPLE_0041.LAB	11/30/06	11:53:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0042.LAB	11/30/06	11:56:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	152.00	1.00
11S RUN 1 11 30 06 SAMPLE_0043.LAB	11/30/06	11:59:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0044.LAB	11/30/06	12:01:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0045.LAB	11/30/06	12:04:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0046.LAB	11/30/06	12:07:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0047.LAB	11/30/06	12:09:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0048.LAB	11/30/06	12:12:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0049.LAB	11/30/06	12:15:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0050.LAB	11/30/06	12:17:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0051.LAB	11/30/06	12:20:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0052.LAB	11/30/06	12:23:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.01
11S RUN 1 11 30 06 SAMPLE_0053.LAB	11/30/06	12:25:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0054.LAB	11/30/06	12:28:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0055.LAB	11/30/06	12:31:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0056.LAB	11/30/06	12:33:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0057.LAB	11/30/06	12:36:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0058.LAB	11/30/06	12:38:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0059.LAB	11/30/06	12:41:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0060.LAB	11/30/06	12:44:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0061.LAB	11/30/06	12:46:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0062.LAB	11/30/06	12:49:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0063.LAB	11/30/06	12:52:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0064.LAB	11/30/06	12:54:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0065.LAB	11/30/06	12:57:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0066.LAB	11/30/06	13:00:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0067.LAB	11/30/06	13:02:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0068.LAB	11/30/06	13:05:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0069.LAB	11/30/06	13:08:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0070.LAB	11/30/06	13:10:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0071.LAB	11/30/06	13:18:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0072.LAB	11/30/06	13:21:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0073.LAB	11/30/06	13:24:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0074.LAB	11/30/06	13:26:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0075.LAB	11/30/06	13:29:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0076.LAB	11/30/06	13:32:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0077.LAB	11/30/06	13:34:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0078.LAB	11/30/06	13:37:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0079.LAB	11/30/06	13:39:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0080.LAB	11/30/06	13:42:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0081.LAB	11/30/06	13:45:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.01

11s.8.1abc (Fab 11S) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 30 06 SAMPLE_0082.LAB	11/30/06	13:47:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0083.LAB	11/30/06	13:50:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0084.LAB	11/30/06	13:53:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0085.LAB	11/30/06	13:55:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0086.LAB	11/30/06	13:58:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0087.LAB	11/30/06	14:01:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0088.LAB	11/30/06	14:03:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0089.LAB	11/30/06	14:06:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0090.LAB	11/30/06	14:09:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	149.76	0.98
11S RUN 1 11 30 06 SAMPLE_0091.LAB	11/30/06	14:11:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0092.LAB	11/30/06	14:14:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0093.LAB	11/30/06	14:17:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0094.LAB	11/30/06	14:19:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0095.LAB	11/30/06	14:22:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0096.LAB	11/30/06	14:25:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0097.LAB	11/30/06	14:27:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0098.LAB	11/30/06	14:30:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0099.LAB	11/30/06	14:33:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0100.LAB	11/30/06	14:35:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0101.LAB	11/30/06	14:38:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0102.LAB	11/30/06	14:41:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0103.LAB	11/30/06	14:43:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0104.LAB	11/30/06	14:46:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0105.LAB	11/30/06	14:48:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0106.LAB	11/30/06	14:51:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0107.LAB	11/30/06	14:54:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0108.LAB	11/30/06	14:56:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0109.LAB	11/30/06	14:59:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0110.LAB	11/30/06	15:02:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0111.LAB	11/30/06	15:04:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	149.76	1.00
11S RUN 1 11 30 06 SAMPLE_0112.LAB	11/30/06	15:07:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0113.LAB	11/30/06	15:10:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	149.76	0.98
11S RUN 1 11 30 06 SAMPLE_0114.LAB	11/30/06	15:12:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0115.LAB	11/30/06	15:15:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0116.LAB	11/30/06	15:18:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0117.LAB	11/30/06	15:20:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0118.LAB	11/30/06	15:23:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0119.LAB	11/30/06	15:26:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0120.LAB	11/30/06	15:28:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0121.LAB	11/30/06	15:31:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0122.LAB	11/30/06	15:34:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00

11s.8.1abc (Fab 11S) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 30 06 SAMPLE_0123.LAB	11/30/06	15:36:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0124.LAB	11/30/06	15:39:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0125.LAB	11/30/06	15:42:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0126.LAB	11/30/06	15:44:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0127.LAB	11/30/06	15:47:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0128.LAB	11/30/06	15:50:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0129.LAB	11/30/06	15:52:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0130.LAB	11/30/06	15:55:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0131.LAB	11/30/06	15:58:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0132.LAB	11/30/06	16:00:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0133.LAB	11/30/06	16:03:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0134.LAB	11/30/06	16:05:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0135.LAB	11/30/06	16:08:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0136.LAB	11/30/06	16:11:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0137.LAB	11/30/06	16:13:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0138.LAB	11/30/06	16:16:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0139.LAB	11/30/06	16:19:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0140.LAB	11/30/06	16:21:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0141.LAB	11/30/06	16:24:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0142.LAB	11/30/06	16:27:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0143.LAB	11/30/06	16:29:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0144.LAB	11/30/06	16:32:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0145.LAB	11/30/06	16:35:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0146.LAB	11/30/06	16:37:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0147.LAB	11/30/06	16:40:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0148.LAB	11/30/06	16:43:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0149.LAB	11/30/06	16:45:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0150.LAB	11/30/06	16:48:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0151.LAB	11/30/06	16:51:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0152.LAB	11/30/06	16:53:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0153.LAB	11/30/06	16:56:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0154.LAB	11/30/06	16:59:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0155.LAB	11/30/06	17:01:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0156.LAB	11/30/06	17:04:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0157.LAB	11/30/06	17:07:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0158.LAB	11/30/06	17:09:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0159.LAB	11/30/06	17:12:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0160.LAB	11/30/06	17:15:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0161.LAB	11/30/06	17:17:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0162.LAB	11/30/06	17:20:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0163.LAB	11/30/06	17:23:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00

11s.8.1abc (Fab 11S) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 30 06 SAMPLE_0164.LAB	11/30/06	17:25:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0165.LAB	11/30/06	17:28:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0166.LAB	11/30/06	17:30:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0167.LAB	11/30/06	17:33:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0168.LAB	11/30/06	17:36:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0169.LAB	11/30/06	17:38:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0170.LAB	11/30/06	17:41:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0171.LAB	11/30/06	17:44:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0172.LAB	11/30/06	17:46:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0173.LAB	11/30/06	17:49:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0174.LAB	11/30/06	17:52:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0175.LAB	11/30/06	17:54:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0176.LAB	11/30/06	17:57:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0177.LAB	11/30/06	18:00:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0178.LAB	11/30/06	18:02:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	1.00
11S RUN 1 11 30 06 SAMPLE_0179.LAB	11/30/06	18:05:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.23	150.51	0.99
11S RUN 1 11 30 06 SAMPLE_0180.LAB	11/30/06	18:08:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.23	150.51	0.98
11S RUN 1 11 30 06 SAMPLE_0181.LAB	11/30/06	18:10:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.23	150.51	0.99
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.230		

11s.8.1abc (Fab 11S) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 2 12 06 06 SAMPLE_0000.LAB	12/06/06	9:59:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0001.LAB	12/06/06	10:02:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0002.LAB	12/06/06	10:05:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0003.LAB	12/06/06	10:07:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0004.LAB	12/06/06	10:10:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0005.LAB	12/06/06	10:13:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0006.LAB	12/06/06	10:15:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0007.LAB	12/06/06	10:18:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0008.LAB	12/06/06	10:21:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0009.LAB	12/06/06	10:23:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.01
11S RUN 2 12 06 06 SAMPLE_0010.LAB	12/06/06	10:26:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0011.LAB	12/06/06	10:29:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0012.LAB	12/06/06	10:31:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0013.LAB	12/06/06	10:34:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0014.LAB	12/06/06	10:37:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0015.LAB	12/06/06	10:39:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0016.LAB	12/06/06	10:42:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0017.LAB	12/06/06	10:45:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0018.LAB	12/06/06	10:47:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0019.LAB	12/06/06	10:50:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0020.LAB	12/06/06	10:53:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0021.LAB	12/06/06	10:55:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0022.LAB	12/06/06	10:58:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0023.LAB	12/06/06	11:00:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0024.LAB	12/06/06	11:03:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0025.LAB	12/06/06	11:06:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0026.LAB	12/06/06	11:08:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0027.LAB	12/06/06	11:11:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0028.LAB	12/06/06	11:14:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0029.LAB	12/06/06	11:16:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0030.LAB	12/06/06	11:19:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0031.LAB	12/06/06	11:22:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0032.LAB	12/06/06	11:24:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0033.LAB	12/06/06	11:27:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0034.LAB	12/06/06	11:30:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0035.LAB	12/06/06	11:32:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0036.LAB	12/06/06	11:35:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0037.LAB	12/06/06	11:38:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	149.76	1.00
11S RUN 2 12 06 06 SAMPLE_0038.LAB	12/06/06	11:40:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	149.76	0.98
11S RUN 2 12 06 06 SAMPLE_0039.LAB	12/06/06	11:43:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0040.LAB	12/06/06	11:46:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00

11s.8.1abc (Fab 11S) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 2 12 06 06 SAMPLE_0041.LAB	12/06/06	11:48:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0042.LAB	12/06/06	11:51:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0043.LAB	12/06/06	11:54:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0044.LAB	12/06/06	11:56:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0045.LAB	12/06/06	11:59:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0046.LAB	12/06/06	12:02:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.01
11S RUN 2 12 06 06 SAMPLE_0047.LAB	12/06/06	12:04:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0048.LAB	12/06/06	12:07:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0049.LAB	12/06/06	12:10:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0050.LAB	12/06/06	12:12:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0051.LAB	12/06/06	12:15:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0052.LAB	12/06/06	12:18:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0053.LAB	12/06/06	12:20:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0054.LAB	12/06/06	12:23:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0055.LAB	12/06/06	12:25:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0056.LAB	12/06/06	12:28:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0057.LAB	12/06/06	12:31:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0058.LAB	12/06/06	12:33:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0059.LAB	12/06/06	12:36:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0060.LAB	12/06/06	12:39:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0061.LAB	12/06/06	12:41:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0062.LAB	12/06/06	12:44:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0063.LAB	12/06/06	12:47:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0064.LAB	12/06/06	12:49:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0065.LAB	12/06/06	12:52:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0066.LAB	12/06/06	12:55:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0067.LAB	12/06/06	12:57:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0068.LAB	12/06/06	13:00:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0069.LAB	12/06/06	13:03:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0070.LAB	12/06/06	13:05:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0071.LAB	12/06/06	13:08:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0072.LAB	12/06/06	13:11:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0073.LAB	12/06/06	13:13:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0074.LAB	12/06/06	13:16:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0075.LAB	12/06/06	13:19:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0076.LAB	12/06/06	13:21:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0077.LAB	12/06/06	13:24:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0078.LAB	12/06/06	13:27:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0079.LAB	12/06/06	13:29:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0080.LAB	12/06/06	13:32:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0081.LAB	12/06/06	13:35:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99

11s.8.1abc (Fab 11S) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 2 12 06 06 SAMPLE_0082.LAB	12/06/06	13:37:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0083.LAB	12/06/06	13:40:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0084.LAB	12/06/06	13:43:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0085.LAB	12/06/06	13:45:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0086.LAB	12/06/06	13:48:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0087.LAB	12/06/06	13:50:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0088.LAB	12/06/06	13:53:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0089.LAB	12/06/06	13:56:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0090.LAB	12/06/06	13:58:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0091.LAB	12/06/06	14:01:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0092.LAB	12/06/06	14:04:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0093.LAB	12/06/06	14:06:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0094.LAB	12/06/06	14:09:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	151.25	0.98
11S RUN 2 12 06 06 SAMPLE_0095.LAB	12/06/06	14:12:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0096.LAB	12/06/06	14:14:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0097.LAB	12/06/06	14:17:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0098.LAB	12/06/06	14:20:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0099.LAB	12/06/06	14:22:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0100.LAB	12/06/06	14:25:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0101.LAB	12/06/06	14:28:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0102.LAB	12/06/06	14:30:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0103.LAB	12/06/06	14:33:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0104.LAB	12/06/06	14:36:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0105.LAB	12/06/06	14:38:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0106.LAB	12/06/06	14:41:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0107.LAB	12/06/06	14:44:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0108.LAB	12/06/06	14:46:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0109.LAB	12/06/06	14:49:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0110.LAB	12/06/06	14:52:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0111.LAB	12/06/06	14:54:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0112.LAB	12/06/06	14:57:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0113.LAB	12/06/06	15:00:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0114.LAB	12/06/06	15:02:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0115.LAB	12/06/06	15:05:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0116.LAB	12/06/06	15:08:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0117.LAB	12/06/06	15:10:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0118.LAB	12/06/06	15:13:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0119.LAB	12/06/06	15:16:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0120.LAB	12/06/06	15:18:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0121.LAB	12/06/06	15:21:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0122.LAB	12/06/06	15:23:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00

11s.8.1abc (Fab 11S) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 2 12 06 06 SAMPLE_0123.LAB	12/06/06	15:26:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0124.LAB	12/06/06	15:29:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0125.LAB	12/06/06	15:31:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0126.LAB	12/06/06	15:34:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0127.LAB	12/06/06	15:37:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0128.LAB	12/06/06	15:39:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0129.LAB	12/06/06	15:42:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0130.LAB	12/06/06	15:45:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0131.LAB	12/06/06	15:47:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0132.LAB	12/06/06	15:50:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0133.LAB	12/06/06	15:53:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0134.LAB	12/06/06	15:55:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0135.LAB	12/06/06	15:58:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0136.LAB	12/06/06	16:01:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0137.LAB	12/06/06	16:03:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0138.LAB	12/06/06	16:06:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0139.LAB	12/06/06	16:09:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0140.LAB	12/06/06	16:11:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0141.LAB	12/06/06	16:14:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0142.LAB	12/06/06	16:17:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0143.LAB	12/06/06	16:19:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0144.LAB	12/06/06	16:22:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0145.LAB	12/06/06	16:25:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0146.LAB	12/06/06	16:27:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0147.LAB	12/06/06	16:30:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0148.LAB	12/06/06	16:33:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0149.LAB	12/06/06	16:35:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0150.LAB	12/06/06	16:38:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0151.LAB	12/06/06	16:41:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0152.LAB	12/06/06	16:43:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0153.LAB	12/06/06	16:46:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0154.LAB	12/06/06	16:49:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0155.LAB	12/06/06	16:51:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0156.LAB	12/06/06	16:54:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0157.LAB	12/06/06	16:56:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0158.LAB	12/06/06	16:59:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0159.LAB	12/06/06	17:02:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0160.LAB	12/06/06	17:04:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0161.LAB	12/06/06	17:07:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0162.LAB	12/06/06	17:10:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0163.LAB	12/06/06	17:12:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98

11s.8.1abc (Fab 11S) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 2 12 06 06 SAMPLE_0164.LAB	12/06/06	17:15:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0165.LAB	12/06/06	17:18:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0166.LAB	12/06/06	17:20:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0167.LAB	12/06/06	17:23:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0168.LAB	12/06/06	17:26:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0169.LAB	12/06/06	17:28:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0170.LAB	12/06/06	17:31:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0171.LAB	12/06/06	17:34:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0172.LAB	12/06/06	17:36:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0173.LAB	12/06/06	17:39:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0174.LAB	12/06/06	17:42:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0175.LAB	12/06/06	17:44:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0176.LAB	12/06/06	17:47:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.99
11S RUN 2 12 06 06 SAMPLE_0177.LAB	12/06/06	17:50:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0178.LAB	12/06/06	17:52:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0179.LAB	12/06/06	17:55:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	0.98
11S RUN 2 12 06 06 SAMPLE_0180.LAB	12/06/06	17:58:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.00
11S RUN 2 12 06 06 SAMPLE_0181.LAB	12/06/06	18:00:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	0.98
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.229		

11s.8.1abc (Fab 11S) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 3 12 12 06 SAMPLE_0000.LAB	12/12/06	11:00:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0001.LAB	12/12/06	11:02:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0002.LAB	12/12/06	11:05:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0003.LAB	12/12/06	11:08:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0004.LAB	12/12/06	11:10:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0005.LAB	12/12/06	11:13:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0006.LAB	12/12/06	11:16:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0007.LAB	12/12/06	11:18:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0008.LAB	12/12/06	11:21:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0009.LAB	12/12/06	11:24:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0010.LAB	12/12/06	11:26:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	149.76	1.00
11S RUN 3 12 12 06 SAMPLE_0011.LAB	12/12/06	11:29:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	149.76	0.98
11S RUN 3 12 12 06 SAMPLE_0012.LAB	12/12/06	11:32:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0013.LAB	12/12/06	11:34:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0014.LAB	12/12/06	11:37:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0015.LAB	12/12/06	11:40:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0016.LAB	12/12/06	11:42:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	149.76	0.99
11S RUN 3 12 12 06 SAMPLE_0017.LAB	12/12/06	11:45:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0018.LAB	12/12/06	11:48:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0019.LAB	12/12/06	11:50:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0020.LAB	12/12/06	11:53:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0021.LAB	12/12/06	11:56:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0022.LAB	12/12/06	11:58:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0023.LAB	12/12/06	12:01:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0024.LAB	12/12/06	12:04:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0025.LAB	12/12/06	12:06:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0026.LAB	12/12/06	12:09:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0027.LAB	12/12/06	12:12:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0028.LAB	12/12/06	12:14:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0029.LAB	12/12/06	12:17:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0030.LAB	12/12/06	12:20:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0031.LAB	12/12/06	12:22:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0032.LAB	12/12/06	12:25:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0033.LAB	12/12/06	12:27:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0034.LAB	12/12/06	12:30:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0035.LAB	12/12/06	12:33:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0036.LAB	12/12/06	12:35:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0037.LAB	12/12/06	12:38:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0038.LAB	12/12/06	12:41:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0039.LAB	12/12/06	12:43:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0040.LAB	12/12/06	12:46:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98

11s.8.1abc (Fab 11S) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 3 12 12 06 SAMPLE_0041.LAB	12/12/06	12:49:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0042.LAB	12/12/06	12:51:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0043.LAB	12/12/06	12:54:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0044.LAB	12/12/06	12:57:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0045.LAB	12/12/06	12:59:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0046.LAB	12/12/06	13:02:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	149.76	0.99
11S RUN 3 12 12 06 SAMPLE_0047.LAB	12/12/06	13:05:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0048.LAB	12/12/06	13:07:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0049.LAB	12/12/06	13:10:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0050.LAB	12/12/06	13:13:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0051.LAB	12/12/06	13:15:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0052.LAB	12/12/06	13:18:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0053.LAB	12/12/06	13:21:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0054.LAB	12/12/06	13:23:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0055.LAB	12/12/06	13:26:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0056.LAB	12/12/06	13:29:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0057.LAB	12/12/06	13:31:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0058.LAB	12/12/06	13:34:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0059.LAB	12/12/06	13:37:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0060.LAB	12/12/06	13:39:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0061.LAB	12/12/06	13:42:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0062.LAB	12/12/06	13:45:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0063.LAB	12/12/06	13:47:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0064.LAB	12/12/06	13:50:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0065.LAB	12/12/06	13:52:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0066.LAB	12/12/06	13:55:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0067.LAB	12/12/06	13:58:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0068.LAB	12/12/06	14:00:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0069.LAB	12/12/06	14:03:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0070.LAB	12/12/06	14:06:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0071.LAB	12/12/06	14:08:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0072.LAB	12/12/06	14:11:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0073.LAB	12/12/06	14:14:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0074.LAB	12/12/06	14:16:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0075.LAB	12/12/06	14:19:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0076.LAB	12/12/06	14:22:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0077.LAB	12/12/06	14:24:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0078.LAB	12/12/06	14:27:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0079.LAB	12/12/06	14:30:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0080.LAB	12/12/06	14:32:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0081.LAB	12/12/06	14:35:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98

11s.8.1abc (Fab 11S) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 3 12 12 06 SAMPLE_0082.LAB	12/12/06	14:38:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0083.LAB	12/12/06	14:40:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0084.LAB	12/12/06	14:43:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0085.LAB	12/12/06	14:46:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0086.LAB	12/12/06	14:48:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0087.LAB	12/12/06	14:51:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0088.LAB	12/12/06	14:54:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0089.LAB	12/12/06	14:56:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0090.LAB	12/12/06	14:59:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0091.LAB	12/12/06	15:02:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	149.76	0.98
11S RUN 3 12 12 06 SAMPLE_0092.LAB	12/12/06	15:04:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0093.LAB	12/12/06	15:07:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	149.76	0.99
11S RUN 3 12 12 06 SAMPLE_0094.LAB	12/12/06	15:10:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0095.LAB	12/12/06	15:12:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0096.LAB	12/12/06	15:15:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	151.25	0.99
11S RUN 3 12 12 06 SAMPLE_0097.LAB	12/12/06	15:17:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0098.LAB	12/12/06	15:20:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0099.LAB	12/12/06	15:23:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0100.LAB	12/12/06	15:25:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0101.LAB	12/12/06	15:28:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0102.LAB	12/12/06	15:31:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0103.LAB	12/12/06	15:33:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0104.LAB	12/12/06	15:36:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0105.LAB	12/12/06	15:39:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0106.LAB	12/12/06	15:41:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0107.LAB	12/12/06	15:44:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0108.LAB	12/12/06	15:47:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0109.LAB	12/12/06	15:49:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0110.LAB	12/12/06	15:52:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0111.LAB	12/12/06	15:55:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0112.LAB	12/12/06	15:57:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0113.LAB	12/12/06	16:00:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0114.LAB	12/12/06	16:03:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	149.76	0.98
11S RUN 3 12 12 06 SAMPLE_0115.LAB	12/12/06	16:05:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0116.LAB	12/12/06	16:08:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0117.LAB	12/12/06	16:11:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0118.LAB	12/12/06	16:13:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0119.LAB	12/12/06	16:16:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0120.LAB	12/12/06	16:19:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0121.LAB	12/12/06	16:21:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0122.LAB	12/12/06	16:24:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00

11s.8.1abc (Fab 11S) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 3 12 12 06 SAMPLE_0123.LAB	12/12/06	16:27:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0124.LAB	12/12/06	16:29:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0125.LAB	12/12/06	16:32:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0126.LAB	12/12/06	16:35:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0127.LAB	12/12/06	16:37:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0128.LAB	12/12/06	16:40:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0129.LAB	12/12/06	16:43:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0130.LAB	12/12/06	16:45:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0131.LAB	12/12/06	16:48:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0132.LAB	12/12/06	16:50:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0133.LAB	12/12/06	16:53:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0134.LAB	12/12/06	16:56:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0135.LAB	12/12/06	16:58:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0136.LAB	12/12/06	17:01:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0137.LAB	12/12/06	17:04:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0138.LAB	12/12/06	17:06:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0139.LAB	12/12/06	17:09:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0140.LAB	12/12/06	17:12:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0141.LAB	12/12/06	17:14:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0142.LAB	12/12/06	17:17:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0143.LAB	12/12/06	17:20:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0144.LAB	12/12/06	17:22:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0145.LAB	12/12/06	17:25:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0146.LAB	12/12/06	17:28:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0147.LAB	12/12/06	17:30:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.23	150.51	1.01
11S RUN 3 12 12 06 SAMPLE_0148.LAB	12/12/06	17:33:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0149.LAB	12/12/06	17:36:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0150.LAB	12/12/06	17:38:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0151.LAB	12/12/06	17:41:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0152.LAB	12/12/06	17:44:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0153.LAB	12/12/06	17:46:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0154.LAB	12/12/06	17:49:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0155.LAB	12/12/06	17:52:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0156.LAB	12/12/06	17:54:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0157.LAB	12/12/06	17:57:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0158.LAB	12/12/06	18:00:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0159.LAB	12/12/06	18:02:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0160.LAB	12/12/06	18:05:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0161.LAB	12/12/06	18:08:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0162.LAB	12/12/06	18:10:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0163.LAB	12/12/06	18:13:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98

11s.8.1abc (Fab 11S) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 3 12 12 06 SAMPLE_0164.LAB	12/12/06	18:16:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0165.LAB	12/12/06	18:18:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0166.LAB	12/12/06	18:21:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0167.LAB	12/12/06	18:23:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0168.LAB	12/12/06	18:26:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0169.LAB	12/12/06	18:29:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0170.LAB	12/12/06	18:31:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0171.LAB	12/12/06	18:34:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0172.LAB	12/12/06	18:37:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0173.LAB	12/12/06	18:39:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0174.LAB	12/12/06	18:42:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0175.LAB	12/12/06	18:45:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.23	150.51	1.00
11S RUN 3 12 12 06 SAMPLE_0176.LAB	12/12/06	18:47:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.24	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0177.LAB	12/12/06	18:50:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.99
11S RUN 3 12 12 06 SAMPLE_0178.LAB	12/12/06	18:53:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.23	150.51	0.98
11S RUN 3 12 12 06 SAMPLE_0179.LAB	12/12/06	18:55:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0180.LAB	12/12/06	18:58:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.24	150.51	0.97
11S RUN 3 12 12 06 SAMPLE_0181.LAB	12/12/06	19:01:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.24	150.51	0.98
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.234		

APPENDIX A-4
FT-IR Data
FAB 11W; 9s.8.1a

9s.8.1a (Fab 11W) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 03 06 SAMPLE B_0000.LAB	11/03/06	23:09:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0001.LAB	11/03/06	23:12:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0002.LAB	11/03/06	23:15:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0003.LAB	11/03/06	23:17:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0004.LAB	11/03/06	23:20:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0005.LAB	11/03/06	23:23:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0006.LAB	11/03/06	23:25:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0007.LAB	11/03/06	23:28:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0008.LAB	11/03/06	23:31:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0009.LAB	11/03/06	23:33:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0010.LAB	11/03/06	23:36:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0011.LAB	11/03/06	23:38:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0012.LAB	11/03/06	23:41:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0013.LAB	11/03/06	23:44:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0014.LAB	11/03/06	23:46:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0015.LAB	11/03/06	23:49:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0016.LAB	11/03/06	23:52:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0017.LAB	11/03/06	23:54:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0018.LAB	11/03/06	23:57:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0019.LAB	11/04/06	0:00:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0020.LAB	11/04/06	0:02:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0021.LAB	11/04/06	0:05:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0022.LAB	11/04/06	0:08:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0023.LAB	11/04/06	0:10:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0024.LAB	11/04/06	0:13:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0025.LAB	11/04/06	0:16:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0026.LAB	11/04/06	0:18:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0027.LAB	11/04/06	0:21:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.25	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0028.LAB	11/04/06	0:24:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0029.LAB	11/04/06	0:26:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.00
11S RUN 1 11 03 06 SAMPLE B_0030.LAB	11/04/06	0:29:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0031.LAB	11/04/06	0:32:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0032.LAB	11/04/06	0:34:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0033.LAB	11/04/06	0:37:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0034.LAB	11/04/06	0:40:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0035.LAB	11/04/06	0:42:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0036.LAB	11/04/06	0:45:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.21	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0037.LAB	11/04/06	0:48:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0038.LAB	11/04/06	0:50:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0039.LAB	11/04/06	0:53:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0040.LAB	11/04/06	0:56:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0041.LAB	11/04/06	0:58:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0042.LAB	11/04/06	1:01:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02

9s.8.1a (Fab 11W) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 03 06 SAMPLE B_0043.LAB	11/04/06	1:04:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0044.LAB	11/04/06	1:06:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0045.LAB	11/04/06	1:09:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0046.LAB	11/04/06	1:12:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0047.LAB	11/04/06	1:14:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0048.LAB	11/04/06	1:17:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0049.LAB	11/04/06	1:20:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0050.LAB	11/04/06	1:22:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0051.LAB	11/04/06	1:25:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0052.LAB	11/04/06	1:28:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0053.LAB	11/04/06	1:30:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0054.LAB	11/04/06	1:33:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.24	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0055.LAB	11/04/06	1:36:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.25	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0056.LAB	11/04/06	1:38:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.24	151.25	0.99
11S RUN 1 11 03 06 SAMPLE B_0057.LAB	11/04/06	1:41:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0058.LAB	11/04/06	1:44:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0059.LAB	11/04/06	1:46:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0060.LAB	11/04/06	1:49:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0061.LAB	11/04/06	1:52:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0062.LAB	11/04/06	1:54:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0063.LAB	11/04/06	1:57:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0064.LAB	11/04/06	2:00:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0065.LAB	11/04/06	2:02:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0066.LAB	11/04/06	2:05:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0067.LAB	11/04/06	2:08:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0068.LAB	11/04/06	2:10:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0069.LAB	11/04/06	2:13:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0070.LAB	11/04/06	2:16:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.23	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0071.LAB	11/04/06	2:18:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.21	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0072.LAB	11/04/06	2:21:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0073.LAB	11/04/06	2:23:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0074.LAB	11/04/06	2:26:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.24	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0075.LAB	11/04/06	2:29:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0076.LAB	11/04/06	2:31:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.24	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0077.LAB	11/04/06	2:34:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0078.LAB	11/04/06	2:37:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0079.LAB	11/04/06	2:39:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0080.LAB	11/04/06	2:42:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0081.LAB	11/04/06	2:45:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.23	150.51	1.00
11S RUN 1 11 03 06 SAMPLE B_0082.LAB	11/04/06	2:47:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0083.LAB	11/04/06	2:50:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0084.LAB	11/04/06	2:53:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.24	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0085.LAB	11/04/06	2:55:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.22	150.51	1.02

9s.8.1a (Fab 11W) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 03 06 SAMPLE B_0086.LAB	11/04/06	2:58:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0087.LAB	11/04/06	3:01:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0088.LAB	11/04/06	3:03:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0089.LAB	11/04/06	3:06:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0090.LAB	11/04/06	3:09:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0091.LAB	11/04/06	3:11:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0092.LAB	11/04/06	3:14:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0093.LAB	11/04/06	3:17:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0094.LAB	11/04/06	3:19:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0095.LAB	11/04/06	3:22:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0096.LAB	11/04/06	3:25:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0097.LAB	11/04/06	3:27:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0098.LAB	11/04/06	3:30:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0099.LAB	11/04/06	3:33:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0100.LAB	11/04/06	3:35:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0101.LAB	11/04/06	3:38:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0102.LAB	11/04/06	3:41:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.21	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0103.LAB	11/04/06	3:43:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0104.LAB	11/04/06	3:46:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0105.LAB	11/04/06	3:49:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0106.LAB	11/04/06	3:51:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0107.LAB	11/04/06	3:54:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.21	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0108.LAB	11/04/06	3:57:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0109.LAB	11/04/06	3:59:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0110.LAB	11/04/06	4:02:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0111.LAB	11/04/06	4:05:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0112.LAB	11/04/06	4:07:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0113.LAB	11/04/06	4:10:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0114.LAB	11/04/06	4:12:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0115.LAB	11/04/06	4:15:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.22	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0116.LAB	11/04/06	4:18:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0117.LAB	11/04/06	4:20:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0118.LAB	11/04/06	4:23:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0119.LAB	11/04/06	4:26:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0120.LAB	11/04/06	4:28:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0121.LAB	11/04/06	4:31:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.21	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0122.LAB	11/04/06	4:34:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.22	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0123.LAB	11/04/06	4:36:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0124.LAB	11/04/06	4:39:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0125.LAB	11/04/06	4:42:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0126.LAB	11/04/06	4:44:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0127.LAB	11/04/06	4:47:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0128.LAB	11/04/06	4:50:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.01

9s.8.1a (Fab 11W) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 03 06 SAMPLE B_0129.LAB	11/04/06	4:52:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0130.LAB	11/04/06	4:55:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0131.LAB	11/04/06	4:58:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0132.LAB	11/04/06	5:00:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0133.LAB	11/04/06	5:03:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.25	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0134.LAB	11/04/06	5:06:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0135.LAB	11/04/06	5:08:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0136.LAB	11/04/06	5:11:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0137.LAB	11/04/06	5:14:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0138.LAB	11/04/06	5:16:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	152.00	1.03
11S RUN 1 11 03 06 SAMPLE B_0139.LAB	11/04/06	5:19:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.26	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0140.LAB	11/04/06	5:22:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0141.LAB	11/04/06	5:24:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0142.LAB	11/04/06	5:27:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0143.LAB	11/04/06	5:30:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0144.LAB	11/04/06	5:32:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0145.LAB	11/04/06	5:35:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0146.LAB	11/04/06	5:38:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.25	150.51	1.01
11S RUN 1 11 03 06 SAMPLE B_0147.LAB	11/04/06	5:40:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.25	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0148.LAB	11/04/06	5:43:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0149.LAB	11/04/06	5:46:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0150.LAB	11/04/06	5:48:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.23	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0151.LAB	11/04/06	5:51:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0152.LAB	11/04/06	5:54:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.25	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0153.LAB	11/04/06	5:56:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.25	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0154.LAB	11/04/06	5:59:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.26	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0155.LAB	11/04/06	6:02:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.25	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0156.LAB	11/04/06	6:04:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0157.LAB	11/04/06	6:07:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0158.LAB	11/04/06	6:09:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0159.LAB	11/04/06	6:12:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0160.LAB	11/04/06	6:15:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.25	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0161.LAB	11/04/06	6:17:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.26	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0162.LAB	11/04/06	6:20:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.25	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0163.LAB	11/04/06	6:23:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0164.LAB	11/04/06	6:25:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0165.LAB	11/04/06	6:28:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.25	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0166.LAB	11/04/06	6:31:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0167.LAB	11/04/06	6:33:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.25	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0168.LAB	11/04/06	6:36:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.26	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0169.LAB	11/04/06	6:39:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.26	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0170.LAB	11/04/06	6:41:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0171.LAB	11/04/06	6:44:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.23	150.51	1.03

9s.8.1a (Fab 11W) Run 1 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11S RUN 1 11 03 06 SAMPLE B_0172.LAB	11/04/06	6:47:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.24	150.51	1.04
11S RUN 1 11 03 06 SAMPLE B_0173.LAB	11/04/06	6:49:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.25	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0174.LAB	11/04/06	6:52:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.25	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0175.LAB	11/04/06	6:55:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.26	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0176.LAB	11/04/06	6:57:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.25	149.76	1.03
11S RUN 1 11 03 06 SAMPLE B_0177.LAB	11/04/06	7:00:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0178.LAB	11/04/06	7:03:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0179.LAB	11/04/06	7:05:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.24	150.51	1.02
11S RUN 1 11 03 06 SAMPLE B_0180.LAB	11/04/06	7:08:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.24	150.51	1.03
11S RUN 1 11 03 06 SAMPLE B_0181.LAB	11/04/06	7:11:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.24	150.51	1.03
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.233		

9s.8.1a (Fab 11W) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 2 11 09 06 SAMPLE_0000.LAB	11/09/06	11:25:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0001.LAB	11/09/06	11:28:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0002.LAB	11/09/06	11:31:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.27	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0003.LAB	11/09/06	11:33:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.24	0.47	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0004.LAB	11/09/06	11:36:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.28	0.48	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0005.LAB	11/09/06	11:39:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.46	0.56	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0006.LAB	11/09/06	11:41:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.82	0.29	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0007.LAB	11/09/06	11:44:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	0.23	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0008.LAB	11/09/06	11:47:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0009.LAB	11/09/06	11:49:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0010.LAB	11/09/06	11:52:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0011.LAB	11/09/06	11:55:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.23	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0012.LAB	11/09/06	11:57:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.23	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0013.LAB	11/09/06	12:00:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.67	0.24	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0014.LAB	11/09/06	12:03:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0015.LAB	11/09/06	12:05:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0016.LAB	11/09/06	12:08:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0017.LAB	11/09/06	12:11:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0018.LAB	11/09/06	12:13:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.67	0.24	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0019.LAB	11/09/06	12:16:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.24	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0020.LAB	11/09/06	12:19:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.23	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0021.LAB	11/09/06	12:21:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.23	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0022.LAB	11/09/06	12:24:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0023.LAB	11/09/06	12:26:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0024.LAB	11/09/06	12:29:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0025.LAB	11/09/06	12:32:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.23	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0026.LAB	11/09/06	12:34:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.23	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0027.LAB	11/09/06	12:37:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	0.23	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0028.LAB	11/09/06	12:40:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0029.LAB	11/09/06	12:42:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.21	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0030.LAB	11/09/06	12:45:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0031.LAB	11/09/06	12:48:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0032.LAB	11/09/06	12:50:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.23	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0033.LAB	11/09/06	12:53:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.23	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0034.LAB	11/09/06	12:56:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.23	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0035.LAB	11/09/06	12:58:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0036.LAB	11/09/06	13:01:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0037.LAB	11/09/06	13:04:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0038.LAB	11/09/06	13:06:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0039.LAB	11/09/06	13:09:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0040.LAB	11/09/06	13:12:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.23	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0041.LAB	11/09/06	13:14:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.24	150.51	0.99

9s.8.1a (Fab 11W) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 2 11 09 06 SAMPLE_0042.LAB	11/09/06	13:17:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	0.97
11W RUN 2 11 09 06 SAMPLE_0043.LAB	11/09/06	13:20:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0044.LAB	11/09/06	13:22:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0045.LAB	11/09/06	13:25:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.22	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0046.LAB	11/09/06	13:28:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.23	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0047.LAB	11/09/06	13:30:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.23	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0048.LAB	11/09/06	13:33:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.23	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0049.LAB	11/09/06	13:36:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0050.LAB	11/09/06	13:38:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.22	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0051.LAB	11/09/06	13:41:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.22	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0052.LAB	11/09/06	13:44:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	0.97
11W RUN 2 11 09 06 SAMPLE_0053.LAB	11/09/06	13:46:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0054.LAB	11/09/06	13:49:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.23	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0055.LAB	11/09/06	13:52:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.23	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0056.LAB	11/09/06	13:54:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.23	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0057.LAB	11/09/06	13:57:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0058.LAB	11/09/06	14:00:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0059.LAB	11/09/06	14:02:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	149.76	0.97
11W RUN 2 11 09 06 SAMPLE_0060.LAB	11/09/06	14:05:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.22	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0061.LAB	11/09/06	14:08:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.22	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0062.LAB	11/09/06	14:10:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.21	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0063.LAB	11/09/06	14:13:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0064.LAB	11/09/06	14:15:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0065.LAB	11/09/06	14:18:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0066.LAB	11/09/06	14:21:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0067.LAB	11/09/06	14:23:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.20	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0068.LAB	11/09/06	14:26:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0069.LAB	11/09/06	14:29:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0070.LAB	11/09/06	14:31:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0071.LAB	11/09/06	14:34:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.19	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0072.LAB	11/09/06	14:37:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0073.LAB	11/09/06	14:39:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0074.LAB	11/09/06	14:42:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0075.LAB	11/09/06	14:45:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0076.LAB	11/09/06	14:47:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0077.LAB	11/09/06	14:50:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0078.LAB	11/09/06	14:53:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0079.LAB	11/09/06	14:55:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0080.LAB	11/09/06	14:58:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0081.LAB	11/09/06	15:01:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0082.LAB	11/09/06	15:03:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0083.LAB	11/09/06	15:06:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.21	150.51	0.98

9s.8.1a (Fab 11W) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 2 11 09 06 SAMPLE_0084.LAB	11/09/06	15:09:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0085.LAB	11/09/06	15:11:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0086.LAB	11/09/06	15:14:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.19	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0087.LAB	11/09/06	15:17:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0088.LAB	11/09/06	15:19:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0089.LAB	11/09/06	15:22:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0090.LAB	11/09/06	15:25:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0091.LAB	11/09/06	15:27:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0092.LAB	11/09/06	15:30:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0093.LAB	11/09/06	15:33:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0094.LAB	11/09/06	15:35:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.19	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0095.LAB	11/09/06	15:38:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0096.LAB	11/09/06	15:41:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0097.LAB	11/09/06	15:43:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.21	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0098.LAB	11/09/06	15:46:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0099.LAB	11/09/06	15:49:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.18	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0100.LAB	11/09/06	15:51:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.19	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0101.LAB	11/09/06	15:54:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.19	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0102.LAB	11/09/06	15:57:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	0.96
11W RUN 2 11 09 06 SAMPLE_0103.LAB	11/09/06	15:59:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.20	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0104.LAB	11/09/06	16:02:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.21	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0105.LAB	11/09/06	16:04:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0106.LAB	11/09/06	16:07:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0107.LAB	11/09/06	16:10:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0108.LAB	11/09/06	16:12:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0109.LAB	11/09/06	16:15:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0110.LAB	11/09/06	16:18:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0111.LAB	11/09/06	16:20:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.21	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0112.LAB	11/09/06	16:23:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0113.LAB	11/09/06	16:26:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0114.LAB	11/09/06	16:28:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.19	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0115.LAB	11/09/06	16:31:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.19	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0116.LAB	11/09/06	16:34:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.97
11W RUN 2 11 09 06 SAMPLE_0117.LAB	11/09/06	16:36:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.97
11W RUN 2 11 09 06 SAMPLE_0118.LAB	11/09/06	16:39:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.21	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0119.LAB	11/09/06	16:42:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0120.LAB	11/09/06	16:44:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.19	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0121.LAB	11/09/06	16:47:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.20	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0122.LAB	11/09/06	16:50:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0123.LAB	11/09/06	16:52:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.18	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0124.LAB	11/09/06	16:55:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	0.16	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0125.LAB	11/09/06	16:58:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39	0.16	150.51	0.99

9s.8.1a (Fab 11W) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 2 11 09 06 SAMPLE_0126.LAB	11/09/06	17:00:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.41	0.16	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0127.LAB	11/09/06	17:03:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0128.LAB	11/09/06	17:06:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	0.16	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0129.LAB	11/09/06	17:08:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0130.LAB	11/09/06	17:11:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	0.14	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0131.LAB	11/09/06	17:14:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.15	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0132.LAB	11/09/06	17:16:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0133.LAB	11/09/06	17:19:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0134.LAB	11/09/06	17:22:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0135.LAB	11/09/06	17:24:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.13	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0136.LAB	11/09/06	17:27:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.13	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0137.LAB	11/09/06	17:30:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.14	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0138.LAB	11/09/06	17:32:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	0.14	150.51	0.97
11W RUN 2 11 09 06 SAMPLE_0139.LAB	11/09/06	17:35:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.36	0.16	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0140.LAB	11/09/06	17:38:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0141.LAB	11/09/06	17:40:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0142.LAB	11/09/06	17:43:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0143.LAB	11/09/06	17:45:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.13	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0144.LAB	11/09/06	17:48:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0145.LAB	11/09/06	17:51:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0146.LAB	11/09/06	17:53:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.15	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0147.LAB	11/09/06	17:56:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0148.LAB	11/09/06	17:59:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.13	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0149.LAB	11/09/06	18:01:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.13	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0150.LAB	11/09/06	18:04:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0151.LAB	11/09/06	18:07:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0152.LAB	11/09/06	18:09:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0153.LAB	11/09/06	18:12:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.15	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0154.LAB	11/09/06	18:15:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.15	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0155.LAB	11/09/06	18:17:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0156.LAB	11/09/06	18:20:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.13	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0157.LAB	11/09/06	18:23:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0158.LAB	11/09/06	18:25:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.13	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0159.LAB	11/09/06	18:28:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0160.LAB	11/09/06	18:31:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0161.LAB	11/09/06	18:33:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0162.LAB	11/09/06	18:36:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.14	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0163.LAB	11/09/06	18:39:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	0.13	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0164.LAB	11/09/06	18:41:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0165.LAB	11/09/06	18:44:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0166.LAB	11/09/06	18:47:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0167.LAB	11/09/06	18:49:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.15	150.51	0.98

9s.8.1a (Fab 11W) Run 2 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 2 11 09 06 SAMPLE_0168.LAB	11/09/06	18:52:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0169.LAB	11/09/06	18:55:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0170.LAB	11/09/06	18:57:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0171.LAB	11/09/06	19:00:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0172.LAB	11/09/06	19:03:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0173.LAB	11/09/06	19:05:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.15	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0174.LAB	11/09/06	19:08:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	0.15	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0175.LAB	11/09/06	19:11:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.15	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0176.LAB	11/09/06	19:13:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.28	0.14	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0177.LAB	11/09/06	19:16:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.14	150.51	0.98
11W RUN 2 11 09 06 SAMPLE_0178.LAB	11/09/06	19:19:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27	0.14	150.51	1.00
11W RUN 2 11 09 06 SAMPLE_0179.LAB	11/09/06	19:21:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	0.14	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0180.LAB	11/09/06	19:24:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	0.15	150.51	0.99
11W RUN 2 11 09 06 SAMPLE_0181.LAB	11/09/06	19:27:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.15	150.51	1.00
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.195		

9s.8.1a (Fab 11W) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 3 11 17 06 SAMPLE_0000.LAB	11/17/06	9:37:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.23	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0001.LAB	11/17/06	9:39:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0002.LAB	11/17/06	9:42:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0003.LAB	11/17/06	9:45:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0004.LAB	11/17/06	9:47:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0005.LAB	11/17/06	9:50:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0006.LAB	11/17/06	9:53:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0007.LAB	11/17/06	9:55:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.20	150.51	1.01
11W RUN 3 11 17 06 SAMPLE_0008.LAB	11/17/06	9:58:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0009.LAB	11/17/06	10:01:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0010.LAB	11/17/06	10:03:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.23	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0011.LAB	11/17/06	10:06:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0012.LAB	11/17/06	10:09:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0013.LAB	11/17/06	10:11:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0014.LAB	11/17/06	10:14:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0015.LAB	11/17/06	10:17:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0016.LAB	11/17/06	10:19:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0017.LAB	11/17/06	10:22:25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0018.LAB	11/17/06	10:25:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0019.LAB	11/17/06	10:27:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0020.LAB	11/17/06	10:30:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0021.LAB	11/17/06	10:33:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	1.01
11W RUN 3 11 17 06 SAMPLE_0022.LAB	11/17/06	10:35:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0023.LAB	11/17/06	10:38:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0024.LAB	11/17/06	10:41:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0025.LAB	11/17/06	10:43:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0026.LAB	11/17/06	10:46:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0027.LAB	11/17/06	10:48:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0028.LAB	11/17/06	10:51:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0029.LAB	11/17/06	10:54:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.22	150.51	1.01
11W RUN 3 11 17 06 SAMPLE_0030.LAB	11/17/06	10:56:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0031.LAB	11/17/06	10:59:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	149.76	0.99
11W RUN 3 11 17 06 SAMPLE_0032.LAB	11/17/06	11:02:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0033.LAB	11/17/06	11:04:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0034.LAB	11/17/06	11:07:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0035.LAB	11/17/06	11:10:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0036.LAB	11/17/06	11:12:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0037.LAB	11/17/06	11:15:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0038.LAB	11/17/06	11:18:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0039.LAB	11/17/06	11:20:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0040.LAB	11/17/06	11:23:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.20	150.51	1.00

9s.8.1a (Fab 11W) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 3 11 17 06 SAMPLE_0041.LAB	11/17/06	11:26:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0042.LAB	11/17/06	11:28:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0043.LAB	11/17/06	11:31:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0044.LAB	11/17/06	11:34:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0045.LAB	11/17/06	11:36:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0046.LAB	11/17/06	11:39:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0047.LAB	11/17/06	11:42:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0048.LAB	11/17/06	11:44:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0049.LAB	11/17/06	11:47:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0050.LAB	11/17/06	11:50:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0051.LAB	11/17/06	11:52:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0052.LAB	11/17/06	11:55:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.21	150.51	1.01
11W RUN 3 11 17 06 SAMPLE_0053.LAB	11/17/06	11:58:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0054.LAB	11/17/06	12:00:43	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0055.LAB	11/17/06	12:03:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0056.LAB	11/17/06	12:06:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0057.LAB	11/17/06	12:08:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0058.LAB	11/17/06	12:11:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0059.LAB	11/17/06	12:14:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0060.LAB	11/17/06	12:16:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0061.LAB	11/17/06	12:19:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0062.LAB	11/17/06	12:21:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0063.LAB	11/17/06	12:24:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0064.LAB	11/17/06	12:27:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0065.LAB	11/17/06	12:29:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0066.LAB	11/17/06	12:32:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0067.LAB	11/17/06	12:35:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0068.LAB	11/17/06	12:37:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0069.LAB	11/17/06	12:40:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0070.LAB	11/17/06	12:43:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0071.LAB	11/17/06	12:45:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0072.LAB	11/17/06	12:48:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0073.LAB	11/17/06	12:51:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0074.LAB	11/17/06	12:53:51	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0075.LAB	11/17/06	12:56:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0076.LAB	11/17/06	12:59:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0077.LAB	11/17/06	13:01:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0078.LAB	11/17/06	13:04:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0079.LAB	11/17/06	13:07:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0080.LAB	11/17/06	13:09:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0081.LAB	11/17/06	13:12:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.21	150.51	1.00

9s.8.1a (Fab 11W) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 3 11 17 06 SAMPLE_0082.LAB	11/17/06	13:15:07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0083.LAB	11/17/06	13:17:46	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.20	150.51	1.01
11W RUN 3 11 17 06 SAMPLE_0084.LAB	11/17/06	13:20:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0085.LAB	11/17/06	13:23:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0086.LAB	11/17/06	13:25:45	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0087.LAB	11/17/06	13:28:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0088.LAB	11/17/06	13:31:04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0089.LAB	11/17/06	13:33:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0090.LAB	11/17/06	13:36:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.19	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0091.LAB	11/17/06	13:39:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.19	150.51	1.01
11W RUN 3 11 17 06 SAMPLE_0092.LAB	11/17/06	13:41:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0093.LAB	11/17/06	13:44:22	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0094.LAB	11/17/06	13:47:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0095.LAB	11/17/06	13:49:41	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0096.LAB	11/17/06	13:52:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0097.LAB	11/17/06	13:55:01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0098.LAB	11/17/06	13:57:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.20	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0099.LAB	11/17/06	14:00:20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.19	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0100.LAB	11/17/06	14:03:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0101.LAB	11/17/06	14:05:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0102.LAB	11/17/06	14:08:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.22	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0103.LAB	11/17/06	14:10:59	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0104.LAB	11/17/06	14:13:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0105.LAB	11/17/06	14:16:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0106.LAB	11/17/06	14:18:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.20	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0107.LAB	11/17/06	14:21:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0108.LAB	11/17/06	14:24:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0109.LAB	11/17/06	14:26:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.62	0.25	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0110.LAB	11/17/06	14:29:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.76	0.33	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0111.LAB	11/17/06	14:32:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.79	0.34	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0112.LAB	11/17/06	14:34:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.76	0.32	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0113.LAB	11/17/06	14:37:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63	0.26	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0114.LAB	11/17/06	14:40:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64	0.25	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0115.LAB	11/17/06	14:42:57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	0.25	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0116.LAB	11/17/06	14:45:36	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.24	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0117.LAB	11/17/06	14:48:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0118.LAB	11/17/06	14:50:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0119.LAB	11/17/06	14:53:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0120.LAB	11/17/06	14:56:13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0121.LAB	11/17/06	14:58:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0122.LAB	11/17/06	15:01:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.23	150.51	1.00

9s.8.1a (Fab 11W) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 3 11 17 06 SAMPLE_0123.LAB	11/17/06	15:04:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	0.23	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0124.LAB	11/17/06	15:06:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0125.LAB	11/17/06	15:09:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0126.LAB	11/17/06	15:12:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0127.LAB	11/17/06	15:14:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0128.LAB	11/17/06	15:17:29	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.23	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0129.LAB	11/17/06	15:20:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0130.LAB	11/17/06	15:22:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	0.24	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0131.LAB	11/17/06	15:25:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0132.LAB	11/17/06	15:28:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0133.LAB	11/17/06	15:30:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0134.LAB	11/17/06	15:33:23	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0135.LAB	11/17/06	15:36:02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0136.LAB	11/17/06	15:38:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0137.LAB	11/17/06	15:41:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	0.23	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0138.LAB	11/17/06	15:44:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.22	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0139.LAB	11/17/06	15:46:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.23	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0140.LAB	11/17/06	15:49:19	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0141.LAB	11/17/06	15:51:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0142.LAB	11/17/06	15:54:38	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.57	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0143.LAB	11/17/06	15:57:17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0144.LAB	11/17/06	15:59:56	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.58	0.23	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0145.LAB	11/17/06	16:02:35	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0146.LAB	11/17/06	16:05:15	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0147.LAB	11/17/06	16:07:54	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0148.LAB	11/17/06	16:10:33	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0149.LAB	11/17/06	16:13:12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0150.LAB	11/17/06	16:15:52	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0151.LAB	11/17/06	16:18:31	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	0.22	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0152.LAB	11/17/06	16:21:10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0153.LAB	11/17/06	16:23:49	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0154.LAB	11/17/06	16:26:28	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0155.LAB	11/17/06	16:29:08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0156.LAB	11/17/06	16:31:47	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0157.LAB	11/17/06	16:34:26	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	0.22	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0158.LAB	11/17/06	16:37:05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0159.LAB	11/17/06	16:39:44	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0160.LAB	11/17/06	16:42:24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	0.20	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0161.LAB	11/17/06	16:45:03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0162.LAB	11/17/06	16:47:42	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0163.LAB	11/17/06	16:50:21	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.20	150.51	1.00

9s.8.1a (Fab 11W) Run 3 Controlled RCTO FT-IR Results
INTEL RIO RANCHO 4th QUARTER 2006 VOC MONITORING

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBUAC (ppm)	H_2O (%)	CO_2 (%)	Temp (°C)	Press. (Atm)
11W RUN 3 11 17 06 SAMPLE_0164.LAB	11/17/06	16:53:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0165.LAB	11/17/06	16:55:39	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.21	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0166.LAB	11/17/06	16:58:18	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.50	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0167.LAB	11/17/06	17:00:58	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0168.LAB	11/17/06	17:03:37	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.18	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0169.LAB	11/17/06	17:06:16	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.18	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0170.LAB	11/17/06	17:08:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.20	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0171.LAB	11/17/06	17:11:34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.21	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0172.LAB	11/17/06	17:14:14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.52	0.21	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0173.LAB	11/17/06	17:16:53	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.19	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0174.LAB	11/17/06	17:19:32	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.19	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0175.LAB	11/17/06	17:22:11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	0.18	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0176.LAB	11/17/06	17:24:50	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	0.18	150.51	1.00
11W RUN 3 11 17 06 SAMPLE_0177.LAB	11/17/06	17:27:30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0178.LAB	11/17/06	17:30:09	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.45	0.19	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0179.LAB	11/17/06	17:32:48	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.47	0.20	150.51	0.99
11W RUN 3 11 17 06 SAMPLE_0180.LAB	11/17/06	17:35:27	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	0.20	150.51	0.98
11W RUN 3 11 17 06 SAMPLE_0181.LAB	11/17/06	17:38:06	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44	0.19	150.51	1.00
		$Average_{wet}$	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	0.212		

APPENDIX B
FID and Flow Data

APPENDIX B-1
FID and Flow Data
FAB 11X-Fab Side; 10s.8.1a

FAB 11X-F Daily Summary
Q4 2006 VOC Monitoring
Intel Rio Rancho, New Mexico

Date*	Daily Outlet FID VOC Conc. (ppm as C_3H_8)	Daily Outlet FID Emissions (lbs/hr)	Outlet FID 8-Hour VOC Conc. (ppm as C_3H_8)	Outlet FID 8-Hour Emissions (lbs/hr)	FTIR 8-Hour** VOC Conc. (converted) (ppm as C_3H_8)	FTIR 8-Hour VOC Sum (lbs/hr)
11/02/2006	1.26	0.20	1.23	0.19	0.00	0.00
11/03/2006	1.20	0.19				
11/04/2006	0.95	0.15				
11/05/2006	0.93	0.15				
11/06/2006	1.13	0.18				
11/07/2006	1.01	0.16				
11/08/2006	1.04	0.16				
11/09/2006	0.90	0.14				
11/10/2006	1.21	0.19	1.60	0.25	0.00	0.00
11/11/2006	1.35	0.22				
11/12/2006	1.46	0.23				
11/13/2006	1.35	0.21				
11/14/2006	1.21	0.19				
11/15/2006	0.92	0.15				
11/16/2006	1.36	0.22	1.31	0.21	0.00	0.00
Average* **	1.07	0.17	1.45	0.12	0.00	0.00

*Monitoring Period started at Noon and ended at Midnight

**The sum of FTIR VOC measured emissions divided by the FID 8-hour measured emissions and multiplied by the FID measured concentration

***FID Averages for the entire monitoring period are based on individual hourly average values for the period, not the daily block average values reported in the columns for each reporting day. Hourly average values for the entire period are presented in Appendix A

CEM (FID) Monitoring Period
Q4 2006
FAB 11X-F Main Outlet

Monitoring Period

Start	11/02/2006 00:00
End	11/16/2006 17:15
Hours	353

CEM Down Time

Start	End	Elapsed	Reason Code	Comment
11/02/2006 06:07	11/02/2006 06:44	0:37	F	Error in FID
11/02/2006 07:33	11/02/2006 07:46	0:13	C	Calibration
11/02/2006 08:18	11/02/2006 08:45	0:27	F	Error in FID
11/02/2006 13:46	11/02/2006 15:07	1:21	F	Error In FID
11/02/2006 17:10	11/02/2006 17:27	0:17	C	Calibration
11/03/2006 10:12	11/03/2006 10:26	0:14	C	Calibration
11/03/2006 19:09	11/03/2006 19:19	0:10	C	Calibration
11/04/2006 08:23	11/04/2006 08:45	0:22	C/F	Calibration/Repair
11/04/2006 17:54	11/04/2006 18:02	0:08	C	Calibration
11/05/2006 09:19	11/05/2006 09:48	0:29	C/F	Calibration/Repair
11/05/2006 17:32	11/05/2006 17:42	0:10	C	Calibration
11/06/2006 09:03	11/06/2006 09:10	0:07	C	Calibration (Zero & 30.1ppm)
11/06/2006 09:25	11/06/2006 09:31	0:06	C	Calibration (50ppm Dilution)
11/06/2006 16:47	11/06/2006 16:54	0:07	C	Calibration
11/07/2006 07:17	11/07/2006 07:25	0:08	C	Calibration
11/07/2006 16:20	11/07/2006 16:27	0:07	C	Calibration
11/08/2006 09:39	11/08/2006 09:48	0:09	C	Calibration
11/08/2006 16:49	11/08/2006 16:56	0:07	C	Calibration
11/09/2006 07:12	11/09/2006 11:43	4:31	C/F	Calibration/Repair
11/09/2006 17:53	11/09/2006 18:01	0:08	C	Calibration
11/10/2006 08:18	11/10/2006 08:31	0:13	C	Calibration
11/10/2006 18:22	11/10/2006 18:32	0:10	C	Calibration
11/11/2006 08:33	11/11/2006 08:43	0:10	C	Calibration
11/11/2006 17:39	11/11/2006 17:47	0:08	C	Calibration
11/12/2006 10:55	11/12/2006 11:05	0:10	C	Calibration
11/13/2006 07:04	11/13/2006 07:12	0:08	C	Calibration
11/13/2006 16:17	11/13/2006 16:24	0:07	C	Calibration
11/14/2006 09:38	11/14/2006 09:45	0:07	C	Calibration
11/14/2006 21:27	11/14/2006 21:34	0:07	C	Calibration
11/15/2006 10:32	11/15/2006 10:39	0:07	C	Calibration
11/16/2006 06:53	11/16/2006 07:02	0:09	C	Calibration

Total 11:34

Percent Data Availability

Minute Basis	**101.69%**
15 Minute Basis (PS-8 Std)	**103.20%**
1 Hour Basis (PS-8 Std)	**103.05%**

Explanation of Reason Codes

A	Process Down
B	Scheduled Maintenance
C	CEM in Calibration mode
D	DAS program Maintenance
E	Error in DAS record information
F	Failure of Minor CEM System Component
G	Failure of Major CEM System Component

Q4 2006 VOC Monitoring
FAB 11X-F FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
1	11/02/2006 00:59	1.29	57	11/04/2006 08:59		113	11/06/2006 16:59	1.15
2	11/02/2006 01:59	1.15	58	11/04/2006 09:59	1.00	114	11/06/2006 17:59	1.15
3	11/02/2006 02:59	1.05	59	11/04/2006 10:59	0.87	115	11/06/2006 18:59	1.29
4	11/02/2006 03:59	1.06	60	11/04/2006 11:59	0.90	116	11/06/2006 19:59	1.31
5	11/02/2006 04:59	1.17	61	11/04/2006 12:59	0.75	117	11/06/2006 20:59	1.24
6	11/02/2006 05:59	1.12	62	11/04/2006 13:59	0.80	118	11/06/2006 21:59	1.22
7	11/02/2006 06:59		63	11/04/2006 14:59	1.10	119	11/06/2006 22:59	1.30
8	11/02/2006 07:59	1.23	64	11/04/2006 15:59	0.92	120	11/06/2006 23:59	0.93
9	11/02/2006 08:59		65	11/04/2006 16:59	0.77	121	11/07/2006 00:59	1.19
10	11/02/2006 09:59	1.32	66	11/04/2006 17:59	0.91	122	11/07/2006 01:59	1.15
11	11/02/2006 10:59	1.22	67	11/04/2006 18:59	1.04	123	11/07/2006 02:59	1.02
12	11/02/2006 11:59	1.34	68	11/04/2006 19:59	0.92	124	11/07/2006 03:59	0.99
13	11/02/2006 12:59	1.56	69	11/04/2006 20:59	0.94	125	11/07/2006 04:59	1.06
14	11/02/2006 13:59	1.53	70	11/04/2006 21:59	0.78	126	11/07/2006 05:59	0.92
15	11/02/2006 14:59		71	11/04/2006 22:59	0.90	127	11/07/2006 06:59	1.12
16	11/02/2006 15:59	0.87	72	11/04/2006 23:59	1.22	128	11/07/2006 07:59	1.33
17	11/02/2006 16:59	0.78	73	11/05/2006 00:59	1.12	129	11/07/2006 08:59	1.37
18	11/02/2006 17:59	1.28	74	11/05/2006 01:59	0.88	130	11/07/2006 09:59	1.07
19	11/02/2006 18:59	1.49	75	11/05/2006 02:59	0.88	131	11/07/2006 10:59	1.11
20	11/02/2006 19:59	1.21	76	11/05/2006 03:59	0.82	132	11/07/2006 11:59	0.91
21	11/02/2006 20:59	1.18	77	11/05/2006 04:59	0.92	133	11/07/2006 12:59	0.84
22	11/02/2006 21:59	1.30	78	11/05/2006 05:59	1.11	134	11/07/2006 13:59	0.61
23	11/02/2006 22:59	1.70	79	11/05/2006 06:59	0.81	135	11/07/2006 14:59	0.75
24	11/02/2006 23:59	1.54	80	11/05/2006 07:59	1.01	136	11/07/2006 15:59	0.94
25	11/03/2006 00:59	1.46	81	11/05/2006 08:59	1.02	137	11/07/2006 16:59	0.74
26	11/03/2006 01:59	1.51	82	11/05/2006 09:59		138	11/07/2006 17:59	1.16
27	11/03/2006 02:59	1.36	83	11/05/2006 10:59	0.89	139	11/07/2006 18:59	0.99
28	11/03/2006 03:59	1.57	84	11/05/2006 11:59	0.92	140	11/07/2006 19:59	1.19
29	11/03/2006 04:59	1.54	85	11/05/2006 12:59	1.02	141	11/07/2006 20:59	0.94
30	11/03/2006 05:59	1.29	86	11/05/2006 13:59	1.12	142	11/07/2006 21:59	0.81
31	11/03/2006 06:59	1.17	87	11/05/2006 14:59	1.14	143	11/07/2006 22:59	1.03
32	11/03/2006 07:59		88	11/05/2006 15:59	0.79	144	11/07/2006 23:59	0.92
33	11/03/2006 08:59	1.22	89	11/05/2006 16:59	0.99	145	11/08/2006 00:59	1.18
34	11/03/2006 09:59	1.45	90	11/05/2006 17:59	1.08	146	11/08/2006 01:59	1.13
35	11/03/2006 10:59	1.26	91	11/05/2006 18:59	0.76	147	11/08/2006 02:59	1.47
36	11/03/2006 11:59	1.48	92	11/05/2006 19:59	0.85	148	11/08/2006 03:59	1.24
37	11/03/2006 12:59	1.33	93	11/05/2006 20:59	0.72	149	11/08/2006 04:59	1.18
38	11/03/2006 13:59	1.04	94	11/05/2006 21:59	0.76	150	11/08/2006 05:59	1.24
39	11/03/2006 14:59	0.94	95	11/05/2006 22:59	0.83	151	11/08/2006 06:59	1.30
40	11/03/2006 15:59	0.83	96	11/05/2006 23:59	0.96	152	11/08/2006 07:59	1.10
41	11/03/2006 16:59	0.91	97	11/06/2006 00:59	0.83	153	11/08/2006 08:59	0.98
42	11/03/2006 17:59	0.82	98	11/06/2006 01:59	0.70	154	11/08/2006 09:59	1.04
43	11/03/2006 18:59	0.91	99	11/06/2006 02:59	1.02	155	11/08/2006 10:59	0.80
44	11/03/2006 19:59	1.17	100	11/06/2006 03:59	1.08	156	11/08/2006 11:59	0.82
45	11/03/2006 20:59	1.31	101	11/06/2006 04:59	1.25	157	11/08/2006 12:59	1.14
46	11/03/2006 21:59	1.10	102	11/06/2006 05:59	1.20	158	11/08/2006 13:59	0.97
47	11/03/2006 22:59	1.12	103	11/06/2006 06:59	1.05	159	11/08/2006 14:59	0.88
48	11/03/2006 23:59	0.89	104	11/06/2006 07:59	0.90	160	11/08/2006 15:59	0.79
49	11/04/2006 00:59	0.99	105	11/06/2006 08:59	0.95	161	11/08/2006 16:59	1.06
50	11/04/2006 01:59	0.97	106	11/06/2006 09:59	1.23	162	11/08/2006 17:59	0.92
51	11/04/2006 02:59	1.04	107	11/06/2006 10:59	1.25	163	11/08/2006 18:59	0.85
52	11/04/2006 03:59	0.98	108	11/06/2006 11:59	1.07	164	11/08/2006 19:59	0.85
53	11/04/2006 04:59	1.13	109	11/06/2006 12:59	1.27	165	11/08/2006 20:59	1.07
54	11/04/2006 05:59	0.86	110	11/06/2006 13:59	1.26	166	11/08/2006 21:59	1.07
55	11/04/2006 06:59	0.93	111	11/06/2006 14:59	1.13	167	11/08/2006 22:59	0.92
56	11/04/2006 07:59	1.15	112	11/06/2006 15:59	1.25	168	11/08/2006 23:59	0.86

Q4 2006 VOC Monitoring
FAB 11X-F FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
169	11/09/2006 00:59	0.69	225	11/11/2006 08:59	1.07	281	11/13/2006 16:59	1.44
170	11/09/2006 01:59	0.73	226	11/11/2006 09:59	1.40	282	11/13/2006 17:59	1.70
171	11/09/2006 02:59	0.86	227	11/11/2006 10:59	1.62	283	11/13/2006 18:59	1.45
172	11/09/2006 03:59	0.98	228	11/11/2006 11:59	1.65	284	11/13/2006 19:59	1.33
173	11/09/2006 04:59	1.28	229	11/11/2006 12:59	1.34	285	11/13/2006 20:59	1.30
174	11/09/2006 05:59	1.26	230	11/11/2006 13:59	1.28	286	11/13/2006 21:59	1.27
175	11/09/2006 06:59	1.27	231	11/11/2006 14:59	1.48	287	11/13/2006 22:59	1.47
176	11/09/2006 07:59		232	11/11/2006 15:59	1.59	288	11/13/2006 23:59	1.71
177	11/09/2006 08:59		233	11/11/2006 16:59	1.37	289	11/14/2006 00:59	1.52
178	11/09/2006 09:59		234	11/11/2006 17:59	1.66	290	11/14/2006 01:59	1.27
179	11/09/2006 10:59		235	11/11/2006 18:59	1.78	291	11/14/2006 02:59	1.26
180	11/09/2006 11:59		236	11/11/2006 19:59	1.88	292	11/14/2006 03:59	1.42
181	11/09/2006 12:59	1.29	237	11/11/2006 20:59	1.76	293	11/14/2006 04:59	1.31
182	11/09/2006 13:59	1.05	238	11/11/2006 21:59	1.69	294	11/14/2006 05:59	1.22
183	11/09/2006 14:59	0.72	239	11/11/2006 22:59	1.69	295	11/14/2006 06:59	1.25
184	11/09/2006 15:59	0.99	240	11/11/2006 23:59	1.70	296	11/14/2006 07:59	1.24
185	11/09/2006 16:59	1.00	241	11/12/2006 00:59	1.73	297	11/14/2006 08:59	1.20
186	11/09/2006 17:59	0.82	242	11/12/2006 01:59	1.51	298	11/14/2006 09:59	1.08
187	11/09/2006 18:59	0.51	243	11/12/2006 02:59	1.70	299	11/14/2006 10:59	1.10
188	11/09/2006 19:59	0.77	244	11/12/2006 03:59	1.68	300	11/14/2006 11:59	1.41
189	11/09/2006 20:59	0.83	245	11/12/2006 04:59	1.48	301	11/14/2006 12:59	1.37
190	11/09/2006 21:59	0.78	246	11/12/2006 05:59	1.56	302	11/14/2006 13:59	1.49
191	11/09/2006 22:59	0.56	247	11/12/2006 06:59	1.72	303	11/14/2006 14:59	1.36
192	11/09/2006 23:59	0.81	248	11/12/2006 07:59	1.72	304	11/14/2006 15:59	1.36
193	11/10/2006 00:59	0.78	249	11/12/2006 08:59	1.68	305	11/14/2006 16:59	1.22
194	11/10/2006 01:59	0.61	250	11/12/2006 09:59	1.57	306	11/14/2006 17:59	1.30
195	11/10/2006 02:59	0.51	251	11/12/2006 10:59	1.23	307	11/14/2006 18:59	1.21
196	11/10/2006 03:59	0.55	252	11/12/2006 11:59	1.20	308	11/14/2006 19:59	1.06
197	11/10/2006 04:59	0.49	253	11/12/2006 12:59	1.14	309	11/14/2006 20:59	1.06
198	11/10/2006 05:59	0.37	254	11/12/2006 13:59	1.42	310	11/14/2006 21:59	1.18
199	11/10/2006 06:59	0.63	255	11/12/2006 14:59	1.31	311	11/14/2006 22:59	0.68
200	11/10/2006 07:59	0.80	256	11/12/2006 15:59	1.28	312	11/14/2006 23:59	0.41
201	11/10/2006 08:59	0.95	257	11/12/2006 16:59	1.17	313	11/15/2006 00:59	0.78
202	11/10/2006 09:59	1.62	258	11/12/2006 17:59	1.39	314	11/15/2006 01:59	0.65
203	11/10/2006 10:59	1.54	259	11/12/2006 18:59	1.49	315	11/15/2006 02:59	0.62
204	11/10/2006 11:59	1.87	260	11/12/2006 19:59	1.60	316	11/15/2006 03:59	0.72
205	11/10/2006 12:59	1.44	261	11/12/2006 20:59	1.43	317	11/15/2006 04:59	0.78
206	11/10/2006 13:59	1.71	262	11/12/2006 21:59	1.39	318	11/15/2006 05:59	0.81
207	11/10/2006 14:59	1.39	263	11/12/2006 22:59	1.26	319	11/15/2006 06:59	1.01
208	11/10/2006 15:59	1.72	264	11/12/2006 23:59	1.34	320	11/15/2006 07:59	0.81
209	11/10/2006 16:59	1.67	265	11/13/2006 00:59	1.44	321	11/15/2006 08:59	0.67
210	11/10/2006 17:59	1.59	266	11/13/2006 01:59	1.43	322	11/15/2006 09:59	0.86
211	11/10/2006 18:59	1.52	267	11/13/2006 02:59	1.41	323	11/15/2006 10:59	0.94
212	11/10/2006 19:59	1.69	268	11/13/2006 03:59	1.43	324	11/15/2006 11:59	0.98
213	11/10/2006 20:59	1.69	269	11/13/2006 04:59	1.33	325	11/15/2006 12:59	1.11
214	11/10/2006 21:59	1.69	270	11/13/2006 05:59	1.14	326	11/15/2006 13:59	1.18
215	11/10/2006 22:59	1.21	271	11/13/2006 06:59	1.40	327	11/15/2006 14:59	1.13
216	11/10/2006 23:59	1.07	272	11/13/2006 07:59	1.39	328	11/15/2006 15:59	1.21
217	11/11/2006 00:59	1.04	273	11/13/2006 08:59	1.17	329	11/15/2006 16:59	1.09
218	11/11/2006 01:59	0.96	274	11/13/2006 09:59	1.04	330	11/15/2006 17:59	1.06
219	11/11/2006 02:59	1.05	275	11/13/2006 10:59	1.19	331	11/15/2006 18:59	0.96
220	11/11/2006 03:59	0.92	276	11/13/2006 11:59	1.16	332	11/15/2006 19:59	0.74
221	11/11/2006 04:59	0.77	277	11/13/2006 12:59	1.26	333	11/15/2006 20:59	0.74
222	11/11/2006 05:59	0.83	278	11/13/2006 13:59	1.25	334	11/15/2006 21:59	0.79
223	11/11/2006 06:59	0.82	279	11/13/2006 14:59	1.36	335	11/15/2006 22:59	1.29
224	11/11/2006 07:59	1.12	280	11/13/2006 15:59	1.32	336	11/15/2006 23:59	1.23

Q4 2006 VOC Monitoring
FAB 11X-F FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
337	11/16/2006 00:59	1.40						
338	11/16/2006 01:59	1.44						
339	11/16/2006 02:59	1.43						
340	11/16/2006 03:59	1.54						
341	11/16/2006 04:59	1.54						
342	11/16/2006 05:59	1.37						
343	11/16/2006 06:59	1.50						
344	11/16/2006 07:59	1.27						
345	11/16/2006 08:59	1.03						
346	11/16/2006 09:59	1.29						
347	11/16/2006 10:59	1.77						
348	11/16/2006 11:59	1.50						
349	11/16/2006 12:59	1.28						
350	11/16/2006 13:59	1.28						
351	11/16/2006 14:59	1.23						
352	11/16/2006 15:59	1.14						
353	11/16/2006 16:59	1.07						
354	11/16/2006 17:59							
355	11/16/2006 18:59							
356	11/16/2006 19:59							
357	11/16/2006 20:59							
358	11/16/2006 21:59							
359	11/16/2006 22:59							
360	11/16/2006 23:59							
361	11/17/2006 00:59							
362	11/17/2006 01:59							
363	11/17/2006 02:59							
364	11/17/2006 03:59							
365	11/17/2006 04:59							
366	11/17/2006 05:59							
367	11/17/2006 06:59							
368	11/17/2006 07:59							
369	11/17/2006 08:59							
370	11/17/2006 09:59							
371	11/17/2006 10:59							
372	11/17/2006 11:59							
373	11/17/2006 12:59							
374	11/17/2006 13:59							
375	11/17/2006 14:59							
376	11/17/2006 15:59							
377	11/17/2006 16:59							
378	11/17/2006 17:59							
379	11/17/2006 18:59							
380	11/17/2006 19:59							
381	11/17/2006 20:59							
382	11/17/2006 21:59							
383	11/17/2006 22:59							
384	11/17/2006 23:59							
385	11/18/2006 00:59							
386	11/18/2006 01:59							
387	11/18/2006 02:59							
388	11/18/2006 03:59							
389	11/18/2006 04:59							
390	11/18/2006 05:59							
391	11/18/2006 06:59							
392	11/18/2006 07:59							

FID Monitoring Calibration Data
Intel Rio Rancho, New Mexico
Q4 2006
FAB 11X-F Main Outlet

Drift Checks

Zero							Mid Cal Gas						
Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment	Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment
11/02/2006 7:44	0.05	0.00	No	#VALUE!	0.05	Zero Check	11/02/2006 07:40	49.77	50.40	No	0.60	0.63	Cal Check
11/02/2006 17:13	-0.57	0.00	No	0.62	0.57		11/02/2006 17:17	45.19	50.40	No	4.58	5.21	
11/02/2006 17:20	0.04	0.00	Yes	#N/A	0.04	Zero Adjust	11/02/2006 17:24	50.31	50.40	Yes	#N/A	0.09	Cal Adjust
11/03/2006 10:23	0.10	0.00	No	0.06	0.10		11/03/2006 10:19	50.46	50.40	No	0.15	0.06	
11/03/2006 19:15	-0.04	0.00	No	0.08	0.04		11/03/2006 19:12	49.86	50.40	No	0.45	0.54	
11/04/2006 08:40	0.03	0.00	No	0.07	0.03		11/04/2006 08:43	49.62	50.40	No	0.24	0.78	
11/04/2006 18:00	0.06	0.00	No	0.10	0.06		11/04/2006 17:57	50.04	50.40	No	0.18	0.36	
11/05/2006 09:25	0.20	0.00	No	0.14	0.20		11/05/2006 09:22	49.49	50.40	No	0.55	0.91	
11/05/2006 17:38	-0.11	0.00	No	0.17	0.11		11/05/2006 17:34	50.08	50.40	No	0.04	0.32	
11/06/2006 09:08	0.03	0.00	No	0.14	0.03		11/06/2006 09:28	49.81	50.00	No	0.27	0.19	
11/06/2006 16:52	0.02	0.00	No	0.13	0.02		11/06/2006 16:49	49.79	50.00	No	0.29	0.21	
11/07/2006 07:22	-0.05	0.00	No	0.03	0.05		11/07/2006 07:19	49.77	50.00	No	0.02	0.23	
11/07/2006 16:25	-0.05	0.00	No	0.09	0.05		11/07/2006 16:22	50.31	50.00	No	0.52	0.31	
11/08/2006 09:46	-0.21	0.00	No	0.16	0.21		11/08/2006 09:42	49.89	50.00	No	0.42	0.11	
11/08/2006 16:54	-0.29	0.00	No	0.23	0.29		11/08/2006 16:51	49.37	50.00	No	0.94	0.63	
11/09/2006 11:31	1.34	0.00	No	1.63	1.34		11/09/2006 11:34	54.16	50.00	No	4.79	4.16	
11/09/2006 11:37	0.11	0.00	Yes	#N/A	0.11	Zero Adjust	11/09/2006 11:39	50.58	50.00	Yes	#N/A	0.58	Cal Adjust
11/09/2006 18:00	-0.13	0.00	NO	1.39	0.13		11/09/2006 17:56	49.32	50.00	No	3.53	0.68	
11/10/2006 08:24	-0.46	0.00	NO	0.34	0.46		11/10/2006 08:21	47.55	50.00	No	1.77	2.45	
11/10/2006 08:27	-0.06	0.00	Yes	#N/A	0.06		11/10/2006 08:30	50.09	50.00	Yes	#N/A	0.09	
11/10/2006 18:31	0.32	0.00	No	0.04	0.32		11/10/2006 18:26	49.79	50.00	No	2.07	0.21	
11/11/2006 08:40	0.03	0.00	No	0.29	0.03		11/11/2006 08:37	48.39	50.00	No	1.40	1.61	
11/11/2006 17:46	0.18	0.00	No	0.15	0.18		11/11/2006 17:41	50.15	50.00	No	0.36	0.15	
11/12/2006 11:03	0.11	0.00	No	0.07	0.11		11/12/2006 10:58	50.29	50.00	No	0.14	0.29	
11/13/2006 07:09	0.32	0.00	No	0.21	0.32		11/13/2006 07:06	49.78	50.00	No	0.51	0.22	
11/13/2006 16:21	0.08	0.00	No	0.03	0.08		11/13/2006 16:19	51.27	50.00	No	0.98	1.27	
11/14/2006 09:43	0.01	0.00	No	0.07	0.01		11/14/2006 09:40	50.30	50.00	No	0.97	0.30	
11/14/2006 21:32	0.14	0.00	No	0.06	0.14		11/14/2006 21:29	50.51	50.00	No	0.76	0.51	
11/15/2006 10:37	-0.01	0.00	No	0.15	0.01		11/15/2006 10:34	50.33	50.00	No	0.18	0.33	
11/16/2006 06:59	0.04	0.00	No	0.05	0.04		11/16/2006 06:55	49.53	50.00	No	0.80	0.47	
11/16/2006 17:21	-0.11	0.00	No	0.10	0.11		11/16/2006 17:18	49.77	50.00	No	0.56	0.23	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	
		0.00		0.00	0.00				50.00		0.00	0.00	

Linearity Check							Linearity Check						
Date & Time		Gas	Cyl. No.	Actual	Recorded	% Error	Date & Time		Gas	Cyl. No.	Actual	Recorded	% Error
11/1/2006 17:58		Zero	ALM06161	0.00	0.00	0.00%			Zero		0.00		0.00%
11/1/2006 18:07		Low	ALM06243	30.1	30.38	0.28%			Low		30.1		-30.10%
11/1/2006 18:09		Mid	ALM06704	50.4	50.37	-0.03%			Mid		50.4		-50.40%
11/1/2006 18:04		High	ALM03906	85.4	85.4	0.00%			High		85.4		-85.40%

FID CALIBRATION CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM
TRC Project Number: 31397-3200-00000
Sample Location: Fab 11X-F RCTO Outlet

Daily Visual Checks

						Unadjusted						Adjusted					
		Inst.	Zero	Mid		Values				Setpoint		Values				Setpoint	
Technician	Date	Ser. #	Cyl. #	Cyl. #	Conc.	Zero	Time	Mid	Time	Zero	Gain	Zero	Time	Mid	Time	Zero	Gain
WM	11/1/06	15G08003	ALM061612	ALM067040	50.4	N/A	N/A	N/A	N/A	N/A	N/A	0.00	17:58	50.37	18:09	6.08	2.12
WM	11/2/06	15G08003	ALM061612	ALM067040	50.4	0.03	7:44	49.80	7:40	6.08	2.12	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/2/06	15G08003	ALM061612	ALM067040	50.4	-0.60	17:13	45.10	17:17	6.08	2.12	0.00	17:20	50.50	17:24	6.20	3.17
WM	11/3/06	15G08003	ALM061612	ALM067040	50.4	0.13	10:23	50.40	10:19	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/3/06	15G08003	ALM061612	ALM067040	50.4	-0.03	19:15	49.90	19:12	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/4/06	15G08003	ALM061612	ALM067040	50.4	0.08	8:40	48.50	8:25	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/4/06	15G08003	ALM061612	ALM067040	50.4	0.05	18:00	50.08	17:57	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/5/06	15G08003	ALM061612	ALM067040	50.4	0.17	9:25	49.46	9:22	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/5/06	15G08003	ALM061612	ALM067040	50.4	0.05	17:37	50.05	17:34	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/6/06	15G08003	ALM061612	ALM062433	30.1	0.00	9:08	30.05	9:05	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/6/06	15G08003	ALM061612	Dilution	50.0	N/A	N/A	49.90	9:28	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/6/06	15G08003	ALM061612	Dilution	50.0	0.08	16:52	49.80	16:49	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/7/06	15G08003	ALM061612	Dilution	50.0	-0.09	7:22	49.85	7:19	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/7/06	15G08003	ALM061612	Dilution	50.0	-0.03	16:25	50.20	16:22	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/8/06	15G08003	ALM061612	Dilution	50.0	-0.15	9:46	49.80	9:43	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/8/06	15G08003	ALM061612	Dilution	50.0	-0.30	16:54	49.30	16:51	6.20	3.17	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/9/06	15G08003	ALM061612	Dilution	50.0	1.40	11:31	54.10	11:34	6.20	3.17	0.10	11:37	50.10	11:40	5.90	2.36
WM	11/10/06	15G08003	ALM061612	Dilution	50.0	-0.40	8:24	47.50	8:21	5.90	2.36	0.05	8:26	50.10	8:30	6.00	2.84
JG	11/10/06	15G08004	ALM061613	Dilution	50.0	0.33	18:27	49.80	18:24	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
JG	11/11/06	15G08005	ALM061614	Dilution	50.0	0.10	8:40	48.50	8:36	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
JG	11/11/06	15G08006	ALM061615	Dilution	50.0	0.30	17:43	50.10	17:40	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
JG	11/12/06	15G08006	ALM061615	Dilution	50.0	0.23	11:00	50.20	10:56	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/13/06	15G08006	ALM061615	Dilution	50.0	0.20	7:09	49.85	7:06	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/13/06	15G08006	ALM061615	Dilution	50.0	0.03	16:21	51.20	16:19	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/14/06	15G08006	ALM061615	Dilution	50.0	0.07	9:43	50.17	9:41	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/14/06	15G08006	ALM061615	Dilution	50.0	0.25	21:32	50.31	21:29	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/15/06	15G08006	ALM061615	Dilution	50.0	-0.11	10:37	50.00	10:34	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
JG	11/16/06	15G08007	ALM061616	Dilution	50.0	0.17	6:59	49.50	6:54	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/16/06	15G08007	ALM061616	Dilution	50.0	-0.13	17:20	49.75	17:18	5.90	2.84	N/A	N/A	N/A	N/A	N/A	N/A

FID QUALITY ASSURANCE CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM
TRC Project Number: 31397-3200-00000
Sample Location: Fab 11X-F RCTO Outlet

					Instrument								Zero Air Generator				Hydrogen Generator					Sampling Transport System		Data Acquisition			
Date	Time	Technician	Instrument Serial No.	Range	Sample Press. (psig)	Air Press. (psig)	Fuel Press. (psig)	Coll. Volts	+ VDC	- VDC	Burner Temp (°C)	Oven Temp (°C)	Serial Number	Press. (psig)	Dryer Status	Change Dryer	Ser#	Press. (psig)	Gain Set.	H_2O Level	Dryer Tube	Sample Line Temp (°F)	Operational (Y/N)	Temp (°C)	Batt Volts	Data Recovered (Y/N)	File Name
11/2/06	7:46	WM	15G08003	0-100	2.3	9.9	5.2	-249	15.5	-15.9	322	162	75832494G	42	50%	No	401704	31.0	3.35	65%	OK	236	Y	26.30	13.13	Y	11X-F.dat
11/2/06	17:25	WM	15G08003	0-100	2.3	10.2	5.3	-249	15.5	-15.9	322	131	75832494G	42	50%	No	401704	31.0	3.35	60%	OK	236	Y	28.676	13.078	Y	11X-F.dat
11/3/06	10:20	WM	15G08003	0-100	2.3	10.3	5.3	-249	15.5	-15.9	323	178	75832494G	42	45%	No	401704	31.0	3.35	60%	OK	236	Y	24.494	13.175	Y	11X-F.dat
11/3/06	19:16	WM	15G08003	0-100	2.4	10.4	5.4	-249	15.5	-15.9	323	177	75832494G	42	45%	No	401704	31.0	3.35	60%	OK	250	Y	25.893	13.125	Y	11X-F.dat
11/4/06	8:25	WM	15G08003	0-100	2.3	10.5	5.5	-249	15.5	-15.9	325	159	75832494G	42	40%	No	40174	31.0	3.35	55%	OK	258	Y	19.66	13.289	Y	11X-F.dat
11/4/06	17:50	WM	15G08003	0-100	2.4	10.3	5.4	-249	15.5	-15.9	323	177	75832494G	42	40%	No	40174	31.0	3.35	55%	OK	256	Y	25.61	13.167	Y	11X-F.dat
11/5/06	9:14	WM	15G08003	0-100	2.4	10.4	5.4	-249	15.5	-15.9	323	77	75832494G	42	40%	No	40174	31.0	3.35	50%	OK	199	Y	21.088	13.263	Y	11X-F.dat
11/5/06	17:28	WM	15G08003	0-100	2.3	10.4	5.4	-249	15.5	-15.9	323	126	75832494G	42	40%	No	40174	31.0	3.35	50%	OK	256	Y	25.101	13.173	Y	11X-F.dat
11/6/06	8:58	WM	15G08003	0-100	2.4	10.3	5.4	-249	15.5	-15.9	324	61	75832494G	42	40%	No	40174	31.0	3.35	50%	OK	256	Y	22.425	13.243	Y	11X-F.dat
11/6/06	16:42	WM	15G08003	0-100	2.4	10.4	5.4	-249	15.5	-15.9	322	75	75832494G	42	40%	No	40174	31.0	3.35	50%	OK	256	Y	25.594	13.166	Y	11X-F.dat
11/7/06	7:25	WM	15G08003	0-100	2.3	10.4	5.4	-249	15.5	-15.9	324	54	75832494G	42	30%	No	40174	31.0	3.35	45%	OK	256	Y	22.959	13.234	Y	11X-F.dat
11/7/06	16:19	WM	15G08003	0-100	2.4	10.3	5.3	-250	15.5	-15.9	322	84	75832494G	42	30%	No	40174	31.0	3.35	40%	OK	256	Y	26.085	13.153	Y	11X-F.dat
11/8/06	9:35	WM	15G08003	0-100	2.4	10.4	5.4	-249	15.5	-15.9	323	157	75832494G	42	30%	Yes	40174	31.0	3.35	40%	OK	256	Y	22.19	13.23	Y	11X-F.dat
11/8/06	16:49	WM	15G08003	0-100	2.4	10.2	5.3	-249	15.5	-15.9	321	179	75832494G	42	100%	No	40174	31.0	3.35	35%	OK	256	Y	28.3	13.119	Y	11X-F.dat
11/9/06	11:41	WM	15G08003	0-100	2.3	10.1	5.2	-249	15.5	-15.9	335	150	75832494G	42	85%	No	40174	31.0	3.35	30%	OK	257	Y	26.988	13.132	Y	11X-F.dat
11/10/06	9:14	WM	15G08003	0-100	2.4	10.4	5.4	-249	15.5	-15.9	332	160	75832494G	42	30%	No	40174	31.0	3.35	30%	OK	256	Y	21.964	12.222	Y	11X-F.dat
11/10/06	18:29	JG	15G08004	0-100	2.4	10.3	5.3	-249	15.5	-15.9	337	157	75832494G	42	29%	No	40174	33.0	3.35	30%	OK	257	Y	24.5	13.2	Y	11X-F.dat
11/11/06	8:43	JG	15G08005	0-100	2.4	10.5	5.4	-249	15.5	-15.9	337	155	75832494G	40	20%	No	40174	33.0	3.35	26%	OK	258	Y	17	13.3	Y	11X-F.dat
11/11/06	17:46	JG	15G08006	0-100	2.4	10.4	5.4	-249	15.5	-15.9	338	153	75832494G	40	15%	No	40174	33.0	3.35	25%	OK	259	Y	24.1	13.2	Y	11X-F.dat
11/12/06	11:00	JG	15G08006	0-100	2.4	10.4	5.4	-249	15.5	-15.9	338	151	75832494G	40	100%	Yes	40174	33.0	3.35	25%	OK	259	Y	24.1	13.2	Y	11X-F.dat
11/13/06	7:06	WM	15G08006	0-100	2.4	10.6	5.5	-249	15.5	-15.9	342	150	75832494G	40	80%	No	40174	33.0	3.35	25%	OK	256	Y	19.446	13.29	Y	11X-F.dat
11/13/06	16:17	WM	15G08006	0-100	2.3	10.3	5.3	-249	15.5	-15.9	336	151	75832494G	40	60%	No	40174	33.0	3.35	25%	OK	257	Y	26.16	13.16	Y	11X-F.dat
11/14/06	9:37	WM	15G08006	0-100	2.4	10.4	5.4	-249	15.5	-15.8	338	150	75832494G	40	40%	No	40174	33.0	3.35	20%	OK	257	Y	22.504	13.216	Y	11X-F.dat
11/14/06	21:30	WM	15G08006	0-100	2.4	10.3	5.3	-249	15.5	-15.9	337	152	75832494G	40	20%	No	40174	33.0	3.35	15%	OK	257	Y	27.432	13.105	Y	11X-F.dat
11/15/06	10:40	WM	15G08006	0-100	2.3	10.2	5.3	-249	15.5	-15.9	336	157	75832494G	40	20%	No	40174	33.0	3.35	15%	OK	257	Y	23.746	13.181	Y	11X-F.dat
11/16/06	7:00	JG	15G08007	0-100	2.4	10.6	5.5	-249	15.5	-15.9	336	151	75832494G	39.5	20%	No	40174	33.0	3.35	15%	OK	257	Y	19.6	13.3	Y	11X-F.dat
11/16/06	17:15	WM	15G08007	0-100	2.4	10.4	5.4	-249	15.5	-15.9	337	151	75832494G	39.5	20%	No	40174	33.0	3.35	15%	OK	257	Y	24.527	13.146	Y	11X-F.dat

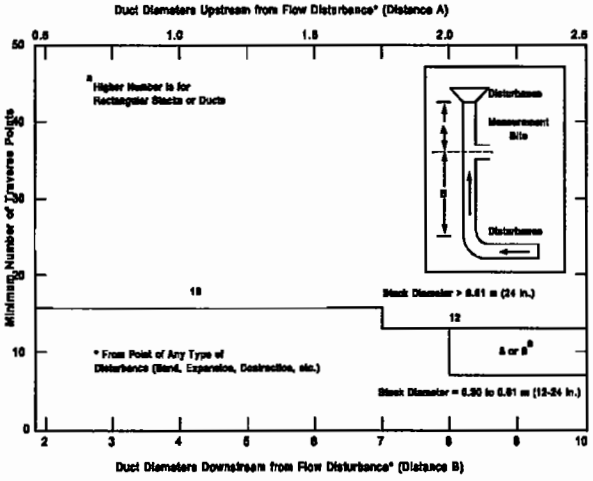
Reference Method Flow Calculations
Intel Rio Rancho, New Mexico
Q4 2006 FAB 11X-F Main Exhaust Stack

Run No.	1	2	3	
Date	11/02/2006	11/10/2006	11/16/2006	AVERAGE
Start Time	17:25	18:30	11:25	
Stop Time	17:40	18:53	11:35	
Barometric Pressure, in. Hg	24.83	24.82	24.80	24.82
Moisture, %	1.35	1.29	1.29	1.31
Saturation Moisture %	11.48%	17.87%	22.14%	17.16%
Dry Mole Fraction, 100-%	0.9865	0.9871	0.9871	0.9869
CO_2 at Stack, $\%_{dry}$	0.22	0.24	0.23	0.23
O_2 at Stack, $\%_{dry}$	20.68	20.66	20.67	20.67
CO + N_2, % dry	79.10	79.10	79.10	79.10
Dry Molecular Weight, lb/lb mole	28.86	28.86	28.86	28.86
Wet Molecular Weight, lb/lb mole	28.72	28.72	28.72	28.72
Stack Diameter inches	41.50	41.50	41.50	41.50
Stack Area, sq. ft. (@ flow meas. loc.)	9.39	9.39	9.39	9.39
Static Pressure, in. of H_2O	-0.15	-0.13	-0.46	-0.25
Stack Pressure, in. of Hg	24.82	24.81	24.77	24.80
Avg. Stack Temp.,°F	114	130	138	127
Avg. Stack Temp.,°R	573.8	589.6	597.6	587.0
Avg. Sqroot of Delta P	0.8303	0.8478	0.8610	0.8463
SDE Average	19.887	20.585	21.048	20.507
Pitot Coefficient	0.84	0.84	0.84	0.84
Stack Gas Velocity, afpm	3,210	3,322	3,400	3,311
Stack Gas Velocity, afps	53.50	55.37	56.67	55.18
Stack Flowrate, wet acfm	30,151	31,209	31,939	31,100
Stack Flowrate, dry scfm	22,696	22,867	23,047	22,870

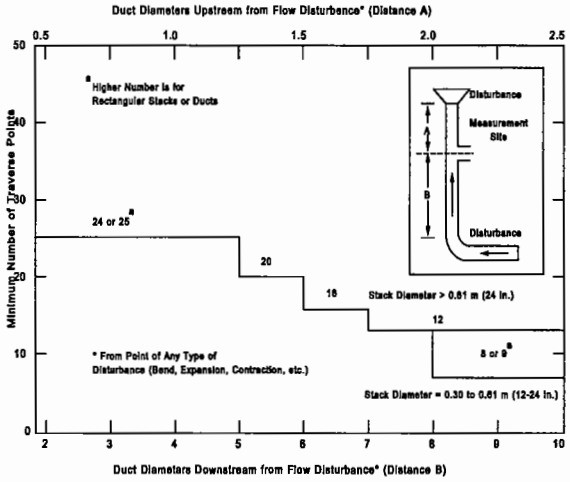
EPA REFERENCE METHOD 1
FIELD DATA SHEET
CIRCULAR STACKS

Firm Name:	Intel	Stack Diameter:	41.5
Plant Location:	Rio Rancho, New Mexico	Sample Port Diameter:	3.0
Sampling Location:	Fab 11X-F RTO Exhaust	Sample Port Depth:	3.0
TRC Project No.	31397-3200-00000	Diameters Upstream:	6.7
Date:	11/2/2006	Diameters Downstream:	3.5
Technician:	J. Gloss	Flow or Particulate Test:	F
Circular/Rectangular:	C	Number of Test Ports:	2

For Flow Traverses



For Particulate Traverses



	Number of Traverse Points On a Diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
Traverse Point No.	Fraction of Diameter to Locate Traverse Point											
1	0.146	0.067	0.044	0.032	0.026	0.021	0.018	0.016	0.014	0.013	0.011	0.011
2	0.854	0.250	0.146	0.105	0.082	0.067	0.057	0.049	0.044	0.039	0.035	0.032
3		0.750	0.296	0.194	0.146	0.118	0.099	0.085	0.075	0.067	0.060	0.055
4		0.933	0.704	0.323	0.226	0.177	0.146	0.125	0.109	0.097	0.087	0.079
5			0.854	0.677	0.342	0.250	0.201	0.169	0.146	0.129	0.116	0.105
6			0.956	0.806	0.658	0.356	0.269	0.220	0.188	0.165	0.146	0.132
7				0.895	0.774	0.644	0.366	0.283	0.236	0.204	0.180	0.161
8				0.968	0.854	0.750	0.634	0.375	0.296	0.250	0.218	0.194
9					0.918	0.823	0.731	0.625	0.382	0.306	0.262	0.230
10					0.974	0.882	0.799	0.717	0.618	0.388	0.315	0.272
11						0.933	0.854	0.780	0.704	0.612	0.393	0.323
12						0.979	0.901	0.831	0.764	0.694	0.607	0.398
13							0.943	0.875	0.812	0.750	0.685	0.602
14							0.982	0.915	0.854	0.796	0.738	0.677
15								0.951	0.891	0.835	0.782	0.728
16								0.984	0.925	0.871	0.820	0.770
17									0.956	0.903	0.854	0.806
18									0.986	0.933	0.884	0.839
19										0.961	0.913	0.868
20										0.987	0.940	0.895
21											0.965	0.921
22											0.989	0.945
23												0.968
24												0.989

Traverse Points	
No.	Distance from Wall
1	4 5/16
2	7 6/16
3	11 1/16
4	16 6/16
5	31 2/16
6	36 7/16
7	40 2/16
8	43 3/16
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/2/2006
Unit Number:	FAB 11X-F Main Stack	**Stack Diameter (in.):**	41.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	-0.15
Run No.:	1	**Operators:**	JRG/MOS
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.83
Pitot Tube ID:	P502		
Pitot Tube Coefficient:	**0.84**		
Estimated Stack CO_2%:	**0.25** **O_2%:** **20.5** **H_2O%:** **1.6**		
Platform Elevation (feet):	50 Ft		
Comments:			

Pre Test	Pass	Fail
Pitot Leak Check	Y	___

Post Test	Pass	Fail
Pitot Leak Check	Y	___
Start:	17:25	
End:	17:40	

South East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.66	140
2	0.64	132
3	0.67	111
4	0.75	93
5	0.74	85
6	0.75	87
7	0.70	81
8	0.64	80

North East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.88	87
2	0.83	83
3	0.82	110
4	0.58	168
5	0.60	149
6	0.67	134
7	0.70	132
8	0.46	148
Total Average:	**sqrt dp = 0.83026**	**113.8**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/10/2006
Unit Number:	FAB 11X-F Main Stack	**Stack Diameter (in.):**	41.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	-0.13
Run No.:	2	**Operators:**	JG/MS
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.82
Pitot Tube ID:	P502		
Pitot Tube Coefficient:	**0.84**	**Pre Test**	
		Pass	**Fail**
Estimated Stack CO_2%:	0.25 **O_2%:** 20.5 **H_2O%:** 1.6	**Pitot Leak Check**	Y ___
Platform Elevation (feet):	50 Ft	**Post Test**	
		Pass	**Fail**
Comments:		**Pitot Leak Check**	Y ___
		Start:	18:30
		End:	18:53

South East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.62	148
2	0.67	153
3	0.68	160
4	0.71	165
5	0.65	135
6	0.67	112
7	0.73	88
8	0.73	86

North East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.91	82
2	0.98	90
3	0.80	123
4	0.66	155
5	0.60	163
6	0.65	150
7	0.78	136
8	0.71	128
Total Average:	**sqrt dp = 0.84775**	**129.6**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/16/2006
Unit Number:	FAB 11X-F Main Stack	**Stack Diameter (in.):**	41.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	-0.46
Run No.:	3	**Operators:**	JG/WM
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.80
Pitot Tube ID:	P502		
Pitot Tube Coefficient:	**0.84**		
Estimated Stack CO_2%:	0.25 **O_2%:** 20.5 **H_2O%:** 1.6		
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test	
	Pass	Fail
Pitot Leak Check	Y	___

	Post Test	
	Pass	Fail
Pitot Leak Check	Y	___
Start:	11:25	
End:	11:35	

South East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.69	146
2	0.66	168
3	0.65	178
4	0.63	182
5	0.71	142
6	0.78	109
7	0.86	88
8	0.82	88

North East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	1.01	86
2	0.94	98
3	0.74	136
4	0.69	163
5	0.63	165
6	0.65	158
7	0.71	148
8	0.75	147
Total Average:	**sqrt dp = 0.86098**	**137.6**

APPENDIX B-2
FID and Flow Data
FAB 11X-Bridge Side; 11s.8.2abc

FAB 11X-B Daily Summary
Q4 2006 VOC Monitoring
Intel Rio Rancho, New Mexico

Date*	Daily Outlet FID VOC Conc. (ppm as C_3H_8)	Daily Outlet FID Emissions (lbs/hr)	Outlet FID 8-Hour VOC Conc. (ppm as C_3H_8)	Outlet FID 8-Hour Emissions (lbs/hr)	FTIR 8-Hour** VOC Conc. (converted) (ppm as C_3H_8)	FTIR 8-Hour VOC Sum (lbs/hr)
11/28/2006	0.14	0.02	0.54	0.06	0.00	0.00
11/29/2006	0.40	0.05				
11/30/2006	0.60	0.07				
12/01/2006	0.70	0.08				
12/02/2006	0.52	0.06				
12/03/2006	0.36	0.04				
12/04/2006	0.70	0.08				
12/05/2006	0.75	0.09				
12/06/2006	0.56	0.07	0.73	0.09	0.00	0.00
12/07/2006	0.51	0.06				
12/08/2006	0.51	0.06				
12/09/2006	0.31	0.04				
12/10/2006	0.86	0.10				
12/11/2006	0.74	0.09	0.26	0.03	0.00	0.00
12/12/2006	0.51	0.06				
Average* **	0.51	0.06	0.50	0.06	0.00	0.00

**The sum of FTIR VOC measured emissions divided by the FID 8-hour measured emissions and multiplied by the FID measured concentration

***FID Averages for the entire monitoring period are based on individual hourly average values for the period, not the daily block average values reported in the columns for each reporting day. Hourly average values for the entire period are presented in Appendix A

CEM (FID) Monitoring Period
Q4 2006
FAB 11X-B Main Outlet

Monitoring Period

Start	11/27/2006 23:59
End	12/12/2006 17:00
Hours	353

CEM Down Time

Start	End	Elapsed	Reason Code	Comment
11/28/2006 07:12	11/28/2006 07:21	0:09	C	Calibration Check
11/28/2006 15:14	11/28/2006 15:25	0:11	C	Calibration Check
11/29/2006 07:20	11/29/2006 07:36	0:16	C	Calibration Check
11/29/2006 18:48	11/29/2006 18:55	0:07	C	Calibration Check
11/30/2006 07:44	11/30/2006 07:56	0:12	C	Calibration Check
11/30/2006 14:25	11/30/2006 18:19	3:54	G	Zero Air Generator Failure
11/30/2006 18:20	11/30/2006 18:31	0:11	C	Calibration Check
12/01/2006 01:19	12/01/2006 01:23	0:04	G	Glitch in FID
12/01/2006 08:04	12/01/2006 08:14	0:10	C	Calibration Check
12/01/2006 16:27	12/01/2006 16:38	0:11	C	Calibration Check
12/02/2006 10:35	12/02/2006 10:41	0:06	C	Calibration Check
12/02/2006 18:42	12/02/2006 18:50	0:08	C	Calibration Check
12/03/2006 11:02	12/03/2006 11:07	0:05	C	Calibration Check
12/03/2006 18:16	12/03/2006 18:27	0:11	C	Calibration Check
12/03/2006 21:23	12/3/2006 21:29	0:06	F	Glitch in FID
12/04/2006 07:28	12/04/2006 07:47	0:19	F	Glitch in FID
12/04/2006 10:33	12/04/2006 10:43	0:10	C	Calibration Check
12/04/2006 12:38	12/04/2006 12:46	0:08	F	Glitch in FID
12/04/2006 17:12	12/04/2006 17:17	0:05	C	Calibration Check
12/05/2006 08:43	12/05/2006 08:58	0:15	C	Calibration Check
12/05/2006 09:17	12/05/2006 09:28	0:11	C	Calibration Check
12/05/2006 13:03	12/05/2006 15:06	2:03	C/F	Excess drift / Calibration Check
12/05/2006 18:27	12/05/2006 18:37	0:10	C	Calibration Check
12/06/2006 09:17	12/06/2006 09:28	0:11	C	Calibration Check
12/06/2006 16:36	12/06/2006 16:42	0:06	C	Calibration Check
12/07/2006 10:52	12/07/2006 11:01	0:09	C	Calibration Check
12/08/2006 08:18	12/08/2006 08:25	0:07	C	Calibration Check
12/08/2006 17:12	12/08/2006 17:21	0:09	C	Calibration Check
12/09/2006 09:48	12/09/2006 09:54	0:06	C	Calibration Check
12/09/2006 23:25	12/09/2006 23:36	0:11	C	Calibration Check
12/10/2006 12:30	12/10/2006 12:39	0:09	C	Calibration Check
12/10/2006 19:24	12/10/2006 19:32	0:08	C	Calibration Check
12/11/2006 09:40	12/11/2006 09:47	0:07	C	Calibration Check
12/11/2006 19:08	12/11/2006 19:16	0:08	C	Calibration Check
12/12/2006 07:12	12/12/2006 07:27	0:15	C	Calibration Check

Total	11:08

Percent Data Availability

Minute Basis	**101.75%**
15 Minute Basis (PS-8 Std)	**103.3%**
1 Hour Basis (PS-8 Std)	**102.68%**

Explanation of Reason Codes

A	Process Down
B	Scheduled Maintenance
C	CEM in Calibration mode
D	DAS program Maintenance
E	Error in DAS record information
F	Failure of Minor CEM System Component
G	Failure of Major CEM System Component

Q4 2006 VOC Monitoring
FAB 11X-B FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
1	11/28/2006 00:59	0.19	57	11/30/2006 08:59	0.66	113	12/02/2006 16:59	0.39
2	11/28/2006 01:59	0.00	58	11/30/2006 09:59	0.48	114	12/02/2006 17:59	0.40
3	11/28/2006 02:59	0.00	59	11/30/2006 10:59	0.74	115	12/02/2006 18:59	0.39
4	11/28/2006 03:59	0.02	60	11/30/2006 11:59	0.82	116	12/02/2006 19:59	0.46
5	11/28/2006 04:59	0.04	61	11/30/2006 12:59	0.50	117	12/02/2006 20:59	0.48
6	11/28/2006 05:59	0.04	62	11/30/2006 13:59	0.39	118	12/02/2006 21:59	0.52
7	11/28/2006 06:59	0.02	63	11/30/2006 14:59		119	12/02/2006 22:59	0.52
8	11/28/2006 07:59	0.00	64	11/30/2006 15:59		120	12/02/2006 23:59	0.49
9	11/28/2006 08:59	0.05	65	11/30/2006 16:59		121	12/03/2006 00:59	0.47
10	11/28/2006 09:59	0.13	66	11/30/2006 17:59		122	12/03/2006 01:59	0.49
11	11/28/2006 10:59	0.16	67	11/30/2006 18:59		123	12/03/2006 02:59	0.56
12	11/28/2006 11:59	0.10	68	11/30/2006 19:59	0.59	124	12/03/2006 03:59	0.57
13	11/28/2006 12:59	0.12	69	11/30/2006 20:59	0.60	125	12/03/2006 04:59	0.55
14	11/28/2006 13:59	0.11	70	11/30/2006 21:59	0.63	126	12/03/2006 05:59	0.24
15	11/28/2006 14:59	0.10	71	11/30/2006 22:59	0.70	127	12/03/2006 06:59	0.20
16	11/28/2006 15:59	0.35	72	11/30/2006 23:59	0.66	128	12/03/2006 07:59	0.05
17	11/28/2006 16:59	0.42	73	12/01/2006 00:59	0.63	129	12/03/2006 08:59	0.01
18	11/28/2006 17:59	0.42	74	12/01/2006 01:59	0.63	130	12/03/2006 09:59	0.15
19	11/28/2006 18:59	0.36	75	12/01/2006 02:59	0.57	131	12/03/2006 10:59	0.24
20	11/28/2006 19:59	0.22	76	12/01/2006 03:59	0.53	132	12/03/2006 11:59	0.27
21	11/28/2006 20:59	0.13	77	12/01/2006 04:59	0.50	133	12/03/2006 12:59	0.26
22	11/28/2006 21:59	0.15	78	12/01/2006 05:59	0.43	134	12/03/2006 13:59	0.24
23	11/28/2006 22:59	0.17	79	12/01/2006 06:59	0.30	135	12/03/2006 14:59	0.25
24	11/28/2006 23:59	0.12	80	12/01/2006 07:59	0.03	136	12/03/2006 15:59	0.25
25	11/29/2006 00:59	0.08	81	12/01/2006 08:59	0.82	137	12/03/2006 16:59	0.25
26	11/29/2006 01:59	0.03	82	12/01/2006 09:59	1.31	138	12/03/2006 17:59	0.23
27	11/29/2006 02:59	0.01	83	12/01/2006 10:59	1.38	139	12/03/2006 18:59	0.44
28	11/29/2006 03:59	0.03	84	12/01/2006 11:59	1.28	140	12/03/2006 19:59	0.58
29	11/29/2006 04:59	0.04	85	12/01/2006 12:59	1.09	141	12/03/2006 20:59	0.59
30	11/29/2006 05:59	0.08	86	12/01/2006 13:59	0.96	142	12/03/2006 21:59	0.59
31	11/29/2006 06:59	0.10	87	12/01/2006 14:59	0.88	143	12/03/2006 22:59	0.58
32	11/29/2006 07:59	0.33	88	12/01/2006 15:59	0.94	144	12/03/2006 23:59	0.55
33	11/29/2006 08:59	0.57	89	12/01/2006 16:59	0.71	145	12/04/2006 00:59	0.55
34	11/29/2006 09:59	0.60	90	12/01/2006 17:59	0.54	146	12/04/2006 01:59	0.53
35	11/29/2006 10:59	0.67	91	12/01/2006 18:59	0.53	147	12/04/2006 02:59	0.56
36	11/29/2006 11:59	0.62	92	12/01/2006 19:59	0.51	148	12/04/2006 03:59	0.58
37	11/29/2006 12:59	0.57	93	12/01/2006 20:59	0.53	149	12/04/2006 04:59	0.60
38	11/29/2006 13:59	0.53	94	12/01/2006 21:59	0.53	150	12/04/2006 05:59	0.60
39	11/29/2006 14:59	0.42	95	12/01/2006 22:59	0.55	151	12/04/2006 06:59	0.73
40	11/29/2006 15:59	0.48	96	12/01/2006 23:59	0.60	152	12/04/2006 07:59	
41	11/29/2006 16:59	0.46	97	12/02/2006 00:59	0.55	153	12/04/2006 08:59	0.92
42	11/29/2006 17:59	0.57	98	12/02/2006 01:59	0.52	154	12/04/2006 09:59	0.76
43	11/29/2006 18:59	0.69	99	12/02/2006 02:59	0.57	155	12/04/2006 10:59	0.63
44	11/29/2006 19:59	0.43	100	12/02/2006 03:59	0.70	156	12/04/2006 11:59	0.54
45	11/29/2006 20:59	0.51	101	12/02/2006 04:59	0.70	157	12/04/2006 12:59	0.53
46	11/29/2006 21:59	0.72	102	12/02/2006 05:59	0.74	158	12/04/2006 13:59	0.52
47	11/29/2006 22:59	0.44	103	12/02/2006 06:59	0.71	159	12/04/2006 14:59	0.53
48	11/29/2006 23:59	0.56	104	12/02/2006 07:59	0.70	160	12/04/2006 15:59	0.59
49	11/30/2006 00:59	0.75	105	12/02/2006 08:59	0.63	161	12/04/2006 16:59	0.61
50	11/30/2006 01:59	0.61	106	12/02/2006 09:59	0.51	162	12/04/2006 17:59	0.76
51	11/30/2006 02:59	0.52	107	12/02/2006 10:59	0.55	163	12/04/2006 18:59	0.90
52	11/30/2006 03:59	0.20	108	12/02/2006 11:59	0.51	164	12/04/2006 19:59	0.95
53	11/30/2006 04:59	0.29	109	12/02/2006 12:59	0.37	165	12/04/2006 20:59	0.98
54	11/30/2006 05:59	0.81	110	12/02/2006 13:59	0.32	166	12/04/2006 21:59	0.93
55	11/30/2006 06:59	0.88	111	12/02/2006 14:59	0.36	167	12/04/2006 22:59	0.87
56	11/30/2006 07:59	0.62	112	12/02/2006 15:59	0.38	168	12/04/2006 23:59	0.83

Q4 2006 VOC Monitoring
FAB 11X-B FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
169	12/05/2006 00:59	0.88	225	12/07/2006 08:59	0.67	281	12/09/2006 16:59	0.00
170	12/05/2006 01:59	0.86	226	12/07/2006 09:59	0.77	282	12/09/2006 17:59	0.00
171	12/05/2006 02:59	0.90	227	12/07/2006 10:59	0.78	283	12/09/2006 18:59	0.00
172	12/05/2006 03:59	0.93	228	12/07/2006 11:59	0.60	284	12/09/2006 19:59	0.00
173	12/05/2006 04:59	0.92	229	12/07/2006 12:59	0.57	285	12/09/2006 20:59	0.00
174	12/05/2006 05:59	0.85	230	12/07/2006 13:59	0.57	286	12/09/2006 21:59	0.00
175	12/05/2006 06:59	0.85	231	12/07/2006 14:59	0.52	287	12/09/2006 22:59	0.00
176	12/05/2006 07:59	0.89	232	12/07/2006 15:59	0.47	288	12/09/2006 23:59	0.43
177	12/05/2006 08:59	0.84	233	12/07/2006 16:59	0.48	289	12/10/2006 00:59	0.98
178	12/05/2006 09:59	0.74	234	12/07/2006 17:59	0.46	290	12/10/2006 01:59	0.93
179	12/05/2006 10:59	0.68	235	12/07/2006 18:59	0.46	291	12/10/2006 02:59	0.96
180	12/05/2006 11:59	0.63	236	12/07/2006 19:59	0.45	292	12/10/2006 03:59	0.92
181	12/05/2006 12:59	0.47	237	12/07/2006 20:59	0.44	293	12/10/2006 04:59	0.86
182	12/05/2006 13:59		238	12/07/2006 21:59	0.46	294	12/10/2006 05:59	0.88
183	12/05/2006 14:59		239	12/07/2006 22:59	0.45	295	12/10/2006 06:59	1.15
184	12/05/2006 15:59	0.54	240	12/07/2006 23:59	0.44	296	12/10/2006 07:59	1.28
185	12/05/2006 16:59	0.88	241	12/08/2006 00:59	0.44	297	12/10/2006 08:59	1.33
186	12/05/2006 17:59	1.10	242	12/08/2006 01:59	0.47	298	12/10/2006 09:59	1.39
187	12/05/2006 18:59	0.82	243	12/08/2006 02:59	0.49	299	12/10/2006 10:59	1.20
188	12/05/2006 19:59	0.51	244	12/08/2006 03:59	0.50	300	12/10/2006 11:59	0.93
189	12/05/2006 20:59	0.55	245	12/08/2006 04:59	0.51	301	12/10/2006 12:59	0.85
190	12/05/2006 21:59	0.60	246	12/08/2006 05:59	0.53	302	12/10/2006 13:59	0.60
191	12/05/2006 22:59	0.55	247	12/08/2006 06:59	0.55	303	12/10/2006 14:59	0.59
192	12/05/2006 23:59	0.60	248	12/08/2006 07:59	0.51	304	12/10/2006 15:59	0.61
193	12/06/2006 00:59	0.61	249	12/08/2006 08:59	0.55	305	12/10/2006 16:59	0.61
194	12/06/2006 01:59	0.65	250	12/08/2006 09:59	0.56	306	12/10/2006 17:59	0.56
195	12/06/2006 02:59	0.64	251	12/08/2006 10:59	0.55	307	12/10/2006 18:59	0.55
196	12/06/2006 03:59	0.62	252	12/08/2006 11:59	0.51	308	12/10/2006 19:59	0.58
197	12/06/2006 04:59	0.61	253	12/08/2006 12:59	0.50	309	12/10/2006 20:59	0.66
198	12/06/2006 05:59	0.62	254	12/08/2006 13:59	0.46	310	12/10/2006 21:59	0.72
199	12/06/2006 06:59	0.62	255	12/08/2006 14:59	0.32	311	12/10/2006 22:59	0.74
200	12/06/2006 07:59	0.67	256	12/08/2006 15:59	0.17	312	12/10/2006 23:59	0.70
201	12/06/2006 08:59	0.77	257	12/08/2006 16:59	0.13	313	12/11/2006 00:59	0.69
202	12/06/2006 09:59	0.64	258	12/08/2006 17:59	0.57	314	12/11/2006 01:59	0.74
203	12/06/2006 10:59	0.55	259	12/08/2006 18:59	0.65	315	12/11/2006 02:59	0.73
204	12/06/2006 11:59	0.55	260	12/08/2006 19:59	0.67	316	12/11/2006 03:59	0.72
205	12/06/2006 12:59	0.59	261	12/08/2006 20:59	0.64	317	12/11/2006 04:59	0.72
206	12/06/2006 13:59	0.65	262	12/08/2006 21:59	0.66	318	12/11/2006 05:59	0.76
207	12/06/2006 14:59	0.62	263	12/08/2006 22:59	0.63	319	12/11/2006 06:59	0.81
208	12/06/2006 15:59	0.56	264	12/08/2006 23:59	0.62	320	12/11/2006 07:59	0.70
209	12/06/2006 16:59	0.47	265	12/09/2006 00:59	0.59	321	12/11/2006 08:59	0.77
210	12/06/2006 17:59	0.44	266	12/09/2006 01:59	0.55	322	12/11/2006 09:59	0.72
211	12/06/2006 18:59	0.42	267	12/09/2006 02:59	0.54	323	12/11/2006 10:59	0.68
212	12/06/2006 19:59	0.39	268	12/09/2006 03:59	0.59	324	12/11/2006 11:59	0.73
213	12/06/2006 20:59	0.43	269	12/09/2006 04:59	0.51	325	12/11/2006 12:59	0.68
214	12/06/2006 21:59	0.44	270	12/09/2006 05:59	0.59	326	12/11/2006 13:59	0.69
215	12/06/2006 22:59	0.41	271	12/09/2006 06:59	0.69	327	12/11/2006 14:59	0.72
216	12/06/2006 23:59	0.44	272	12/09/2006 07:59	0.65	328	12/11/2006 15:59	0.73
217	12/07/2006 00:59	0.45	273	12/09/2006 08:59	0.63	329	12/11/2006 16:59	0.75
218	12/07/2006 01:59	0.44	274	12/09/2006 09:59	0.68	330	12/11/2006 17:59	0.75
219	12/07/2006 02:59	0.39	275	12/09/2006 10:59	0.46	331	12/11/2006 18:59	0.81
220	12/07/2006 03:59	0.29	276	12/09/2006 11:59	0.42	332	12/11/2006 19:59	0.73
221	12/07/2006 04:59	0.28	277	12/09/2006 12:59	0.10	333	12/11/2006 20:59	0.76
222	12/07/2006 05:59	0.55	278	12/09/2006 13:59	0.02	334	12/11/2006 21:59	0.79
223	12/07/2006 06:59	0.64	279	12/09/2006 14:59	0.07	335	12/11/2006 22:59	0.80
224	12/07/2006 07:59	0.65	280	12/09/2006 15:59	0.00	336	12/11/2006 23:59	0.79

Q4 2006 VOC Monitoring
FAB 11X-B FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
337	12/12/2006 00:59	0.81	393	01/00/1900 00:00				
338	12/12/2006 01:59	0.83	394	01/00/1900 00:00				
339	12/12/2006 02:59	0.87	395	01/00/1900 00:00				
340	12/12/2006 03:59	0.85	396	01/00/1900 00:00				
341	12/12/2006 04:59	0.86	397	01/00/1900 00:00				
342	12/12/2006 05:59	0.86	398	01/00/1900 00:00				
343	12/12/2006 06:59	0.89	399	01/00/1900 00:00				
344	12/12/2006 07:59	0.43	400	01/00/1900 00:00				
345	12/12/2006 08:59	0.21	401	01/00/1900 00:00				
346	12/12/2006 09:59	0.29	402	01/00/1900 00:00				
347	12/12/2006 10:59	0.31	403	01/00/1900 00:00				
348	12/12/2006 11:59	0.26	404	01/00/1900 00:00				
349	12/12/2006 12:59	0.24	405	01/00/1900 00:00				
350	12/12/2006 13:59	0.27	406	01/00/1900 00:00				
351	12/12/2006 14:59	0.27	407	01/00/1900 00:00				
352	12/12/2006 15:59	0.26	408	01/00/1900 00:00				
353	12/12/2006 16:59	0.20	409	01/00/1900 00:00				
354	01/00/1900 00:00		410	01/00/1900 00:00				
355	01/00/1900 00:00		411	01/00/1900 00:00				
356	01/00/1900 00:00		412	01/00/1900 00:00				
357	01/00/1900 00:00		413	01/00/1900 00:00				
358	01/00/1900 00:00		414	01/00/1900 00:00				
359	01/00/1900 00:00		415	01/00/1900 00:00				
360	01/00/1900 00:00		416	01/00/1900 00:00				
361	01/00/1900 00:00		417	01/00/1900 00:00				
362	01/00/1900 00:00		418	01/00/1900 00:00				
363	01/00/1900 00:00		419	01/00/1900 00:00				
364	01/00/1900 00:00		420	01/00/1900 00:00				
365	01/00/1900 00:00							
366	01/00/1900 00:00							
367	01/00/1900 00:00							
368	01/00/1900 00:00							
369	01/00/1900 00:00							
370	01/00/1900 00:00							
371	01/00/1900 00:00							
372	01/00/1900 00:00							
373	01/00/1900 00:00							
374	01/00/1900 00:00							
375	01/00/1900 00:00							
376	01/00/1900 00:00							
377	01/00/1900 00:00							
378	01/00/1900 00:00							
379	01/00/1900 00:00							
380	01/00/1900 00:00							
381	01/00/1900 00:00							
382	01/00/1900 00:00							
383	01/00/1900 00:00							
384	01/00/1900 00:00							
385	01/00/1900 00:00							
386	01/00/1900 00:00							
387	01/00/1900 00:00							
388	01/00/1900 00:00							
389	01/00/1900 00:00							
390	01/00/1900 00:00							
391	01/00/1900 00:00							
392	01/00/1900 00:00							

FID Monitoring Calibration Data
Intel Rio Rancho, New Mexico
Q4 2006
FAB 11X-B Main Outlet

Drift Checks

Zero							Mid Cal Gas						
Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment	Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment
11/28/2006 7:17	-0.42	0.00	No	0.42	0.42	Zero Check	11/28/2006 07:15	50.00	50.00	No	0.23	0.00	Cal Check
11/28/2006 15:18	-0.34	0.00	No	0.09	0.34		11/28/2006 15:16	49.37	50.00	No	0.63	0.63	
11/28/2006 15:20	-0.02	0.00	Yes	#N/A	0.02		11/28/2006 15:23	49.60	50.00	Yes	#N/A	0.40	
11/29/2006 07:29	-0.42	0.00	No	0.41	0.42		11/29/2006 07:26	49.57	50.00	No	0.03	0.43	
11/29/2006 07:31	0.02	0.00	Yes	#N/A	0.02		11/29/2006 07:33	49.40	50.00	Yes	#N/A	0.60	
11/29/2006 18:53	0.13	0.00	No	0.30	0.13		11/29/2006 18:51	50.35	50.00	No	0.92	0.35	
11/30/2006 07:48	0.30	0.00	No	0.17	0.30		11/30/2006 07:46	50.90	50.00	No	0.55	0.90	
11/30/2006 07:51	-0.04	0.00	Yes	#N/A	0.04		11/30/2006 07:54	50.44	50.00	Yes	#N/A	0.44	
11/30/2006 18:25	0.96	0.00	No	1.17	0.96		11/30/2006 18:22	51.87	50.00	No	1.98	1.87	
11/30/2006 18:27	0.02	0.00	Yes	#N/A	0.02		11/30/2006 18:29	49.77	50.00	Yes	#N/A	0.23	
12/01/2006 08:08	-1.30	0.00	No	1.31	1.30		12/01/2006 08:06	44.86	50.00	No	4.91	[redacted]	
12/01/2006 08:10	0.00	0.00	Yes	#N/A	0.00		12/01/2006 08:12	49.90	50.00	Yes	#N/A	0.10	
12/01/2006 16:31	0.46	0.00	No	0.09	0.46		12/01/2006 16:29	49.38	50.00	No	[redacted]	0.62	
12/01/2006 16:33	-0.08	0.00	Yes	#N/A	0.08		12/01/2006 16:35	49.70	50.00	Yes	#N/A	0.30	
12/02/2006 10:39	0.06	0.00	No	0.14	0.06		12/02/2006 10:37	50.18	50.00	No	0.48	0.18	
12/02/2006 18:47	-0.02	0.00	No	0.06	0.02		12/02/2006 18:44	50.05	50.00	No	0.35	0.05	
12/03/2006 11:05	-0.19	0.00	No	0.17	0.19		12/03/2006 11:03	49.66	50.00	No	0.39	0.34	
12/03/2006 18:20	-0.25	0.00	No	0.23	0.25		12/03/2006 18:18	49.14	50.00	No	0.91	0.86	
12/03/2006 18:22	0.01	0.00	Yes	#N/A	0.01		12/03/2006 18:24	49.13	50.00	Yes	#N/A	0.87	
12/04/2006 10:37	0.17	0.00	No	0.17	0.17		12/04/2006 10:35	50.32	50.00	No	1.19	0.32	
12/04/2006 10:39	-0.05	0.00	Yes	#N/A	0.05		12/04/2006 10:41	49.95	50.00	Yes	#N/A	0.05	
12/04/2006 17:15	0.03	0.00	No	0.24	0.03		12/04/2006 17:13	50.03	50.00	No	1.27	0.03	
12/05/2006 09:24	0.11	0.00	No	0.09	0.11		12/05/2006 09:21	49.91	50.00	No	0.12	0.09	
12/05/2006 14:57	-0.66	0.00	No	0.68	0.66		12/05/2006 14:55	47.46	50.00	No	2.57	2.54	
12/05/2006 15:00	0.06	0.00	Yes	#N/A	0.06		12/05/2006 15:03	50.11	50.00	Yes	#N/A	0.11	
12/05/2006 18:31	0.53	0.00	No	0.21	0.53		12/05/2006 18:29	52.63	50.00	No	0.05	2.63	
12/05/2006 18:33	-0.05	0.00	Yes	#N/A	0.05		12/05/2006 18:35	50.04	50.00	Yes	#N/A	0.04	
12/06/2006 09:22	0.26	0.00	No	0.31	0.26		12/06/2006 09:20	51.33	50.00	No	1.29	1.33	
12/06/2006 09:23	-0.02	0.00	Yes	#N/A	0.02		12/06/2006 09:26	50.13	50.00	Yes	#N/A	0.13	
12/06/2006 16:39	-0.08	0.00	No	0.25	0.08		12/06/2006 16:37	50.30	50.00	No	1.46	0.30	
12/07/2006 10:55	0.19	0.00	No	0.27	0.19		12/07/2006 10:53	51.86	50.00	No	1.56	1.86	
12/07/2006 10:56	-0.05	0.00	Yes	#N/A	0.05		12/07/2006 10:59	50.01	50.00	Yes	#N/A	0.01	
12/08/2006 08:22	0.04	0.00	No	0.09	0.04		12/08/2006 08:20	49.65	50.00	No	0.36	0.35	
12/08/2006 17:15	-0.36	0.00	No	0.31	0.36		12/08/2006 17:13	47.87	50.00	No	2.14	2.13	
12/08/2006 17:17	-0.03	0.00	Yes	#N/A	0.03		12/08/2006 17:19	50.15	50.00	Yes	#N/A	0.15	
12/09/2006 09:52	0.14	0.00	No	0.17	0.14		12/09/2006 09:50	49.93	50.00	No	0.22	0.07	
12/09/2006 23:29	-0.68	0.00	No	0.65	0.68		12/09/2006 23:27	47.05	50.00	No	3.10	2.95	
12/09/2006 23:31	0.04	0.00	Yes	#N/A	0.04		12/09/2006 23:34	50.19	50.00	Yes	#N/A	0.19	
12/10/2006 12:34	-0.04	0.00	No	0.07	0.04		12/10/2006 12:32	50.55	50.00	No	0.36	0.55	
12/10/2006 12:35	-0.06	0.00	Yes	#N/A	0.06		12/10/2006 12:37	50.31	50.00	Yes	#N/A	0.31	
12/10/2006 19:27	0.09	0.00	No	0.08	0.09		12/10/2006 19:25	50.59	50.00	No	0.64	0.59	
12/10/2006 19:28	0.04	0.00	Yes	#N/A	0.04		12/10/2006 19:30	50.09	50.00	Yes	#N/A	0.09	
12/11/2006 09:43	0.06	0.00	Yes	#N/A	0.06		12/11/2006 09:41	51.40	50.00	No	1.31	1.40	
12/11/2006 19:11	0.29	0.00	No	0.23	0.29		12/11/2006 09:45	50.14	50.00	Yes	#N/A	0.14	
12/11/2006 19:12	0.06	0.00	Yes	#N/A	0.06		12/11/2006 19:09	50.26	50.00	No	1.43	0.26	
12/12/2006 07:19	0.33	0.00	No	0.27	0.33		12/11/2006 19:14	50.14	50.00	Yes	#N/A	0.14	
12/12/2006 07:22	0.00	0.00	Yes	#N/A	0.00		12/12/2006 07:15	50.92	50.00	No	0.78	0.92	
12/12/2006 16:59	-0.28	0.00	No	0.02	0.28		12/12/2006 07:24	50.20	50.00	Yes	#N/A	0.20	
		0.00		0.00	0.00		12/12/2006 16:57	50.02	50.00	No	0.60	0.02	

Linearity Check					
Date & Time	Gas	Cyl. No	Actual	Recorded	% Error
11/27/2006 15:14	Zero	ALM061612	0.00	0.00	0.00%
11/27/2006 15:24	Low	ALM062433	30.1	29.60	-0.50%
11/27/2006 15:21	Mid	ALM067040	50.4	49.77	-0.63%
11/27/2006 15:19	High	ALM039067	85.4	85.4	0.00%

FID QUALITY ASSURANCE CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM
TRC Project Number: 31397-3200-00000
Sample Location: Fab 11X-B RCTO Outlet

					Instrument								Zero Air Generator				Hydrogen Generator					Sampling Transport System		Data Acquisition			
Date	Time	Technician	Instrument Serial No.	Range	Sample Press. (psig)	Air Press. (psig)	Fuel Press. (psig)	Coil. Volts	+ VDC	- VDC	Burner Temp (°C)	Oven Temp (°C)	Serial Number	Press. (psig)	Dryer Status	Change Dryer	Ser#	Press. (psig)	Gain Set.	H_2O Level	Dryer Tube	Sample Line Temp (°F)	Operational (Y/N)	Temp (°C)	Batt Volts	Data Recovered (Y/N)	File Name
11/27/06	15:30	WM	15G08003	0-100	2.2	10.3	5.4	-249	15.5	-15.8	330	161	75832494G	40	30%	No	40174	33.0	3.36	25%	OK	256	Y	24.59	13.18	Y	11X_B.dat
11/28/06	7:20	WM	15G08003	0-100	2.2	10.5	5.5	-249	15.6	-15.7	332	164	75832494G	40	10%	Yes	40174	33.0	3.36	25%	OK	255	Y	18.662	13.324	Y	11X_B.dat
11/28/06	15:25	WM/MS	15G08003	0-100	2.2	10.2	5.4	-248	15.7	-15.7	329	163	75832494G	40	80%	No	40174	33.0	3.36	20%	OK	255	Y	25.804	13.119	Y	11X_B.dat
11/29/06	7:35	WM/MS	15G08003	0-100	2.2	10.6	5.5	-248	15.6	-15.7	329	166	7583249G	52	40%	No	40174	33.0	3.36	20%	OK	255	Y	18.4	13.2	Y	11X_B.dat
11/29/06	18:05	WM/MS	15G08003	0-100	2.2	10.6	5.5	-249	15.6	-15.8	329	165	7583249G	40	20%	No	40174	33.0	3.36	20%	OK	255	Y	19.556	13.263	Y	11X_B.dat
11/30/06	7:58	WM	15G08003	0-100	2.3	10.9	5.7	-249	15.5	-15.8	331	175	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	255	Y	10.352	13.475	Y	11X_B.dat
11/30/06	18:15	WM	15G08003	0-100	2.2	10.6	5.5	-249	15.6	-15.8	341	157	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	246	Y	16.798	13.318	Y	11X_B.dat
12/1/06	8:14	WM	15G08003	0-100	2.2	10.7	5.6	-249	15.5	-15.8	333	171	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	250	Y	12.09	13.42	Y	11X_B.dat
12/1/06	16:37	WM	15G08003	0-100	2.2	10.3	5.4	-249	15.5	-15.8	335	164	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	251	Y	21.552	13.216	Y	11X_B.dat
12/2/06	10:35	WM	15G08003	0-100	2.2	10.5	5.5	-249	15.5	-15.8	332	169	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	252	Y	15.456	13.336	Y	11X_B.dat
12/2/06	18:49	WM	15G08003	0-100	2.2	10.2	5.4	-248	15.6	-15.8	332	168	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	252	Y	20.449	13.236	Y	11X_B.dat
12/3/06	11:08	WM	15G08003	0-100	2.2	10.4	5.4	-248	15.6	-15.8	329	175	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	251	Y	14.692	13.42	Y	11X_B.dat
12/3/06	18:14	WM	15G08003	0-100	2.2	10.2	5.4	-249	15.5	-15.8	324	175	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	252	Y	19.44	13.26	Y	11X_B.dat
12/4/06	10:30	WM	15G08003	0-100	2.2	10.3	5.4	-249	15.6	-15.8	330	172	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	252	Y	16.08	13.312	Y	11X_B.dat
12/4/06	17:17	WM	15G08003	0-100	2.2	10.1	5.3	-248	15.6	-15.8	330	171	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	252	Y	22.91	13.182	Y	11X_B.dat
12/5/06	9:26	WM	15G08003	0-100	2.2	10.2	5.3	-248	15.6	-15.8	327	174	7583249G	40	10%	No	40174	33.0	3.36	20%	OK	252	Y	21.12	13.222	Y	11X_B.dat
12/5/06	18:35	WM	15G08003	0-100	2.2	10.2	5.3	-248	15.6	-15.8	327	172	7583249G	40	10%	No	40174	33.0	3.36	15%	OK	251	Y	25.144	13.12	Y	11X_B.dat
12/6/06	9:30	WM	15G08003	0-100	2.2	10.2	5.4	-248	15.6	-15.7	332	168	7583249G	40	10%	No	40174	33.0	3.36	15%	OK	252	Y	20.435	13.263	Y	11X_B.dat
12/6/06	16:41	WM	15G08003	0-100	2.2	10.1	5.3	-248	15.6	-15.7	331	168	7583249G	40	10%	No	40174	33.0	3.36	70%	OK	252	Y	26.726	13.065	Y	11X_B.dat
12/7/06	10:46	WM	15G08003	0-100	2.2	10.2	5.3	-249	15.6	-15.8	334	168	7583249G	40	10%	No	40174	33.0	3.36	70%	OK	253	Y	20.397	13.065	Y	11X_B.dat
12/8/06	8:16	WM	15G08003	0-100	2.2	10.6	5.5	-248	15.6	-15.8	337	168	7583249G	40	10%	No	40174	33.0	3.36	60%	OK	252	Y	15.169	13.332	Y	11X_B.dat
12/8/06	17:07	WM	15G08003	0-100	2.2	10.3	5.4	-249	15.6	-15.9	328	173	7583249G	40	10%	No	40174	33.0	3.36	50%	OK	252	Y	23.96	13.12	Y	11X_B.dat
12/9/06	9:58	WM	15G08003	0-100	2.2	10.2	5.3	-249	15.6	-15.8	328	173	7583249G	40	10%	No	40174	33.0	3.36	45%	OK	252	Y	20.279	13.21	Y	11X_B.dat
12/9/06	11:35	WM	15G08003	0-100	2.2	10.4	5.4	-248	15.6	-15.8	326	183	7583249G	40	10%	No	40174	33.0	3.36	40%	OK	251	Y	21.409	13.181	Y	11X_B.dat
12/10/06	12:42	WM	15G08003	0-100	2.2	10.0	5.2	-248	15.6	-15.8	324	174	7583249G	40	10%	No	40174	33.0	3.36	40%	OK	252	Y	25.409	13.146	Y	11X_B.dat
12/10/06	19:20	WM	15G08003	0-100	2.2	10.2	5.4	-248	15.5	-15.8	326	173	7583249G	40	10%	No	40174	33.0	3.36	40%	OK	252	Y	25.711	13.071	Y	11X_B.dat
12/11/06	9:40	WM	15G08003	0-100	2.2	10.3	5.4	-248	15.5	-15.8	328	172	7583249G	40	10%	No	40174	33.0	3.36	40%	OK	252	Y	22.644	13.195	Y	11X_B.dat
12/11/06	18:53	WM	15G08003	0-100	2.2	10.2	5.4	-248	15.5	-15.9	329	172	7583249G	40	10%	No	40174	33.0	3.36	40%	OK	251	Y	25.323	13.105	Y	11X_B.dat
12/12/06	7:10	TS	15G08003	0-100	2.2	10.2	5.3	-248	15.6	-15.8	331	171	7583249G	40	10%	No	40174	33.0	3.36	40%	OK	254	Y	22.161	13.195	Y	11X_B.dat
12/12/06	16:55	WM	15G08003	0-100	2.2	10.4	5.4	-248	15.5	-15.8	329	171	7583249G	40	10%	No	40174	33.0	3.36	35%	OK	253	Y	22.813	13.195	Y	11X_B.dat

FID CALIBRATION CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM

TRC Project Number: 31397-3200-00000

Sample Location: Fab 11X-B RCTO Outlet

Daily Visual Checks

						Unadjusted						Adjusted					
		Inst.	Zero	Mid		Values				Setpoint		Values				Setpoint	
Technician	Date	Ser. #	Cyl. #	Cyl. #	Conc.	Zero	Time	Mid	Time	Zero	Gain	Zero	Time	Mid	Time	Zero	Gain
WM	11/27/06	15G08003	ALM061202	Dilution	50.0	0.00	15:15	49.8	15:22	6.02	4.69	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/28/06	15G08003	ALM061202	Dilution	50.0	-0.50	7:17	50.00	7:15	6.02	4.69	N/A	N/A	N/A	N/A	N/A	N/A
WM/MS	11/28/06	15G08003	ALM061202	Dilution	50.0	-0.40	15:17	49.40	15:16	6.02	4.69	-0.03	15:20	49.63	15:23	6.08	4.69
WM/MS	11/29/06	15G08003	ALM061202	Dilution	50.0	-0.50	7:28	49.30	7:24	6.08	4.69	0.06	7:30	49.60	7:33	6.14	4.69
WM/MS	11/29/06	15G08003	ALM061202	Dilution	50.0	0.10	18:53	50.29	18:51	6.14	4.69	N/A	N/A	N/A	N/A	N/A	N/A
WM	11/30/06	15G08003	ALM061202	Dilution	50.0	0.37	7:49	50.89	7:46	6.14	4.69	0.03	7:51	50.20	7:54	6.09	4.37
WM	11/30/06	15G08003	ALM061202	Dilution	50.0	0.94	18:25	51.96	18:22	6.09	4.37	0.07	18:27	49.78	18:29	5.91	4.37
WM	12/1/06	15G08003	ALM061202	Dilution	50.0	-1.22	8:08	44.61	8:06	5.91	4.37	0.07	8:10	49.90	8:12	6.11	4.37
WM	12/1/06	15G08003	ALM061202	Dilution	50.0	0.47	16:31	49.36	16:29	6.11	4.37	-0.07	16:33	49.80	16:35	6.05	4.60
WM	12/2/06	15G08003	ALM061202	Dilution	50.0	0.10	10:39	50.20	10:37	6.05	4.60	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/3/06	15G08003	ALM061202	Dilution	50.0	0.03	18:47	50.06	18:44	6.05	4.60	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/3/06	15G08003	ALM061202	Dilution	50.0	-0.10	11:05	49.63	11:03	6.05	4.60	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/3/06	15G08003	ALM061202	Dilution	50.0	-0.26	18:20	49.33	18:18	6.05	4.60	0.07	18:22	49.43	18:24	6.09	4.63
WM	12/4/06	15G08003	ALM061202	Dilution	50.0	0.23	10:37	50.13	10:35	6.09	4.63	0.00	10:39	49.93	10:41	6.07	4.63
WM	12/4/06	15G08003	ALM061202	Dilution	50.0	0.17	17:15	49.88	17:13	6.07	4.53	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/5/06	15G08003	ALM061202	Dilution	50.0	-0.03	9:24	49.86	9:21	6.07	4.53	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/5/06	15G08003	ALM061202	Dilution	50.0	-0.74	14:57	47.49	14:55	6.07	4.53	0.00	14:59	50.03	15:03	6.18	5.07
WM	12/5/06	15G08003	ALM061202	Dilution	50.0	0.46	18:31	52.67	18:29	6.18	5.07	0.00	18:33	50.06	18:35	6.10	4.65
WM	12/6/06	15G08003	ALM061202	Dilution	50.0	0.23	9:22	51.40	9:20	6.10	4.65	0.00	9:24	50.13	9:26	6.06	4.53
WM	12/6/06	15G08003	ALM061202	Dilution	50.0	-0.13	16:39	50.20	16:37	6.06	4.53	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/7/06	15G08003	ALM061202	Dilution	50.0	0.18	10:55	51.88	10:53	6.06	4.53	0.00	10:57	50.10	10:59	6.05	4.24
WM	12/8/06	15G08003	ALM061202	Dilution	50.0	0.03	8:23	49.58	8:20	6.05	4.24	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/8/06	15G08003	ALM061202	Dilution	50.0	-0.37	17:15	47.84	17:13	6.05	4.24	0.07	17:17	50.08	17:19	6.10	4.62
WM	12/9/06	15G08003	ALM061202	Dilution	50.0	0.10	9:52	49.89	9:50	6.10	4.62	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/9/06	15G08003	ALM061202	Dilution	50.0	-0.77	23:29	47.10	23:27	6.10	4.62	0.00	23:31	49.98	23:34	6.23	4.87
WM	12/10/06	15G08003	ALM061202	Dilution	50.0	-0.70	12:34	50.44	12:32	6.23	4.87	0.00	12:35	50.01	12:37	6.15	4.92
WM	12/10/06	15G08003	ALM061202	Dilution	50.0	0.13	19:27	50.62	19:25	6.15	4.92	0.00	19:28	50.05	19:30	6.14	4.82
WM	12/11/06	15G08003	ALM061202	Dilution	50.0	0.07	9:43	51.40	9:41	6.14	4.82	N/A	N/A	50.05	9:45	6.14	4.55
WM	12/11/06	15G08003	ALM061202	Dilution	50.0	0.23	19:11	50.26	19:09	6.14	4.55	0.00	19:12	50.09	19:14	6.10	4.57
TS	12/12/06	15G08003	ALM061202	Dilution	50.0	0.23	7:20	50.95	17:17	6.10	4.57	0.00	7:22	50.08	7:24	6.08	4.52
WM	12/12/06	15G08003	ALM061202	Dilution	50.0	-0.30	16:59	50.08	16:57	6.08	4.52	N/A	N/A	N/A	N/A	N/A	N/A

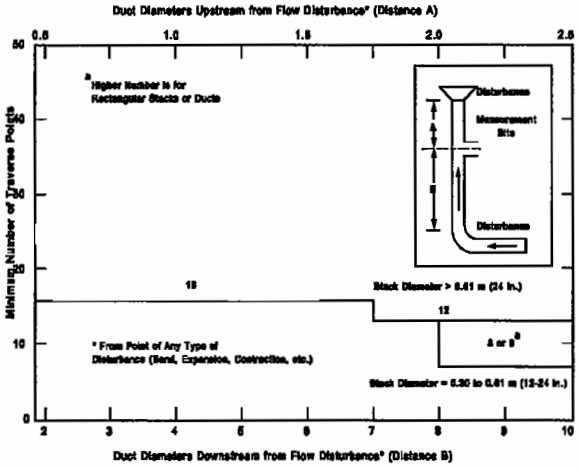
Reference Method Flow Calculations
Intel Rio Rancho, New Mexico
Q4 2006 FAB 11X-B Main Exhaust Stack

Run No.	1	2	3	
Date	11/29/2006	12/05/2006	12/11/2006	AVERAGE
Start Time	17:30	14:25	17:45	
Stop Time	17:45	14:50	17:52	
Barometric Pressure, in. Hg	24.39	24.95	24.63	24.66
Moisture, %	1.18	0.98	1.25	1.14
Saturation Moisture %	12.44%	12.33%	12.21%	12.33%
Dry Mole Fraction, 100-%	0.9882	0.9902	0.9875	0.9886
CO_2 at Stack, $\%_{dry}$	0.21	0.21	0.21	0.21
O_2 at Stack, $\%_{dry}$	20.69	20.69	20.69	20.69
CO + N_2, % dry	79.10	79.10	79.10	79.10
Dry Molecular Weight, lb/lb mole	28.86	28.86	28.86	28.86
Wet Molecular Weight, lb/lb mole	28.73	28.75	28.73	28.74
Stack Diameter inches	41.50	41.50	41.50	41.50
Stack Area, sq. ft. (@ flow meas. loc.)	9.39	9.39	9.39	9.39
Static Pressure, in. of H_2O	-0.39	-0.23	0.32	-0.10
Stack Pressure, in. of Hg	24.36	24.93	24.65	24.65
Avg. Stack Temp., °F	116	116	116	116
Avg. Stack Temp., °R	575.9	576.4	575.7	576.0
Avg. Sqroot of Delta P	0.6347	0.6242	0.6329	0.6306
SDE Average	15.232	14.986	15.186	15.135
Pitot Coefficient	0.84	0.84	0.84	0.84
Stack Gas Velocity, afpm	2,481	2,412	2,459	2,450
Stack Gas Velocity, afps	41.34	40.19	40.98	40.84
Stack Flowrate, wet acfm	23,302	22,653	23,096	23,017
Stack Flowrate, dry scfm	17,182	17,115	17,230	17,176

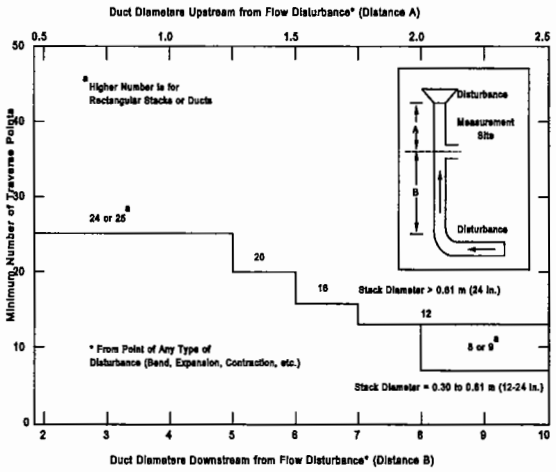
EPA REFERENCE METHOD 1
FIELD DATA SHEET
CIRCULAR STACKS

Firm Name:	Intel	Stack Diameter:	41.5
Plant Location:	Rio Rancho, New Mexico	Sample Port Diameter:	3.0
Sampling Location:	Fab 11X-B RTO Exhaust	Sample Port Depth:	3.0
TRC Project No.	31397-3100-00000	Diameters Upstream:	6.7
Date:	11/28/2006	Diameters Downstream:	10.6
Technician:	WM/MS	Flow or Particulate Test:	F
Circular/Rectangular:	C	Number of Test Ports:	2

For Flow Traverses



For Particulate Traverses



	Number of Traverse Points On a Diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
Traverse Point No.	Fraction of Diameter to Locate Traverse Point											
1	0.146	0.067	0.044	0.032	0.026	0.021	0.018	0.016	0.014	0.013	0.011	0.011
2	0.854	0.250	0.146	0.105	0.082	0.067	0.057	0.049	0.044	0.039	0.035	0.032
3		0.750	0.296	0.194	0.146	0.118	0.099	0.085	0.075	0.067	0.060	0.055
4		0.933	0.704	0.323	0.226	0.177	0.146	0.125	0.109	0.097	0.087	0.079
5			0.854	0.677	0.342	0.250	0.201	0.169	0.146	0.129	0.116	0.105
6			0.956	0.806	0.658	0.356	0.269	0.220	0.188	0.165	0.146	0.132
7				0.895	0.774	0.644	0.366	0.283	0.236	0.204	0.180	0.161
8				0.968	0.854	0.750	0.634	0.375	0.296	0.250	0.218	0.194
9					0.918	0.823	0.731	0.625	0.382	0.306	0.262	0.230
10					0.974	0.882	0.799	0.717	0.618	0.388	0.315	0.272
11						0.933	0.854	0.780	0.704	0.612	0.393	0.323
12						0.979	0.901	0.831	0.764	0.694	0.607	0.398
13							0.943	0.875	0.812	0.750	0.685	0.602
14							0.982	0.915	0.854	0.796	0.738	0.677
15								0.951	0.891	0.835	0.782	0.728
16								0.984	0.925	0.871	0.820	0.770
17									0.956	0.903	0.854	0.806
18									0.986	0.933	0.884	0.839
19										0.961	0.913	0.868
20										0.987	0.940	0.895
21											0.965	0.921
22											0.989	0.945
23												0.968
24												0.989

Traverse Points	
No.	Distance from Wall
1	4 13/16
2	9 1/16
3	15 5/16
4	32 3/16
5	38 7/16
6	42 11/16
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/29/2006
Unit Number:	FAB 11X-B Main Stack	**Stack Diameter (in.):**	41.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	-0.39
Run No.:	1	**Operators:**	MS/WM
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.39
Pitot Tube ID:	P502		
Pitot Tube Coefficient:	**0.84**		
Estimated Stack	**CO_2%:0.25 O_2%:20.5 H_2O%:1.6**		
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test	
	Pass	**Fail**
Pitot Leak Check	Y	___

	Post Test	
	Pass	**Fail**
Pitot Leak Check	Y	___
Start:	17:30	
End:	17:45	

West Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.40	115
2	0.41	125
3	0.43	125
4	0.41	121
5	0.41	115
6	0.28	107

North Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.39	114
2	0.40	116
3	0.39	123
4	0.46	125
5	0.46	119
6	0.41	86
Total Average:	**sqrt dp = 0.63471**	**115.9**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	12/5/2006
Unit Number:	FAB 11X-B Main Stack	**Stack Diameter (in.):**	41.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	-0.23
Run No.:	2	**Operators:**	RS/WM
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.95
Pitot Tube ID:	P502		
Pitot Tube Coefficient: 0.84			
Estimated Stack CO_2%:0.25 O_2%:20.5 H_2O%:1.6			
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test	
	Pass	**Fail**
Pitot Leak Check	Y	___

	Post Test	
	Pass	**Fail**
Pitot Leak Check	Y	___
Start:	14:25	
End:	14:50	

West Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.32	68
2	0.42	108
3	0.41	122
4	0.42	126
5	0.42	131
6	0.39	129

North Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.29	80
2	0.43	124
3	0.42	129
4	0.40	129
5	0.39	127
6	0.38	124
Total Average:	**sqrt dp = 0.6242**	**116.4**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	12/11/2006
Unit Number:	FAB 11X-B Main Stack	**Stack Diameter (in.):**	41.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	0.32
Run No.:	3	**Operators:**	TS/WM
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.63
Pitot Tube ID:	P502		
Pitot Tube Coefficient: 0.84			
Estimated Stack CO_2%:0.25 O_2%:20.5 H_2O%:1.6			
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test	
	Pass	**Fail**
Pitot Leak Check	Y	___

	Post Test	
	Pass	**Fail**
Pitot Leak Check	Y	___
Start:	17:45	
End:	17:52	

West Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.30	92
2	0.41	115
3	0.42	121
4	0.42	130
5	0.43	131
6	0.41	130

North Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.36	67
2	0.46	106
3	0.43	123
4	0.42	126
5	0.41	126
6	0.37	122
Total Average:	**sqrt dp = 0.63292**	**115.7**

APPENDIX B-3
FID and Flow Data
FAB 11S; 11s.8.1abc

FAB 11S Daily Summary
Q4 2006 VOC Monitoring
Intel Rio Rancho, New Mexico

Date*	Daily Outlet FID VOC Conc. (ppm as C_3H_8)	Daily Outlet FID Emissions (lbs/hr)	Outlet FID 8-Hour VOC Conc. (ppm as C_3H_8)	Outlet FID 8-Hour Emissions (lbs/hr)	FTIR 8-Hour** VOC Conc. (converted) (ppm as C_3H_8)	FTIR 8-Hour VOC Sum (lbs/hr)
11/29/2006	0.85	0.17				
11/30/2006	1.05	0.21	1.05	0.20		0.00
12/01/2006	1.03	0.20				
12/02/2006	1.10	0.22				
12/03/2006	0.93	0.18				
12/04/2006	1.07	0.21				
12/05/2006	1.19	0.23				
12/06/2006	1.21	0.24	1.27	0.26	0.00	0.00
12/07/2006	1.14	0.22				
12/08/2006	1.02	0.20				
12/09/2006	1.02	0.20				
12/10/2006	1.09	0.21				
12/11/2006	1.21	0.24				
12/12/2006	1.12	0.22	1.09	0.22		0.00
12/13/2006	1.06	0.21				
01/00/1900						
01/00/1900						
01/00/1900						
01/00/1900						
Average* **	1.04	0.21	1.14	0.22	0.00	0.00

**The sum of FTIR VOC measured emissions divided by the FID 8-hour measured emissions and multiplied by the FID measured concentration

***FID Averages for the entire monitoring period are based on individual hourly average values for the period, not the daily block average values reported in the columns for each reporting day. Hourly average values for the entire period are presented in Appendix A

CEM (FID) Monitoring Period
Q4 2006
FAB 11S Main Outlet

Monitoring Period

Start	11/28/2006 23:59
End	12/13/2006 08:00
Hours	344

CEM Down Time

Start	End	Elapsed	Reason Code	Comment
11/29/2006 09:26	11/29/2006 09:37	0:11	C	Calibration Check
11/29/2006 19:10	11/29/2006 19:15	0:05	C	Calibration Check
11/30/2006 07:08	11/30/2006 07:19	0:11	C	Calibration Check
11/30/2006 18:03	11/30/2006 18:09	0:06	C	Calibration Check
12/01/2006 08:25	12/01/2006 08:31	0:06	C	Calibration Check
12/01/2006 16:51	12/01/2006 16:58	0:07	C	Calibration Check
12/02/2006 10:51	12/02/2006 10:59	0:08	C	Calibration Check
12/02/2006 13:35	12/02/2006 19:00	5:25	F	Excessive Drift
12/02/2006 19:01	12/02/2006 19:06	0:05	C	Calibration Check
12/02/2006 19:07	12/02/2006 19:30	0:23	F	Hydrogen Dryer Change
12/02/2006 19:49	12/02/2006 19:59	0:10	C	Calibration Check
12/03/2006 11:17	12/03/2006 11:23	0:06	C	Calibration Check
12/03/2006 18:37	12/03/2006 18:42	0:05	C	Calibration Check
12/04/2006 10:54	12/04/2006 10:59	0:05	C	Calibration Check
12/04/2006 17:28	12/04/2006 17:37	0:09	C	Calibration Check
12/05/2006 08:22	12/05/2006 08:27	0:05	C	Calibration Check
12/5/2006 18:52	12/05/2006 19:10	0:18	C	Calibration Check
12/06/2006 09:02	12/06/2006 09:10	0:08	C	Calibration Check
12/06/2006 17:43	12/06/2006 17:48	0:05	C	Calibration Check
12/07/2006 11:16	12/07/2006 11:25	0:09	C	Calibration Check
12/08/2006 08:33	12/08/2006 08:38	0:05	C	Calibration Check
12/08/2006 17:29	12/08/2006 17:37	0:08	C	Calibration Check
12/09/2006 10:02	12/09/2006 10:06	0:04	C	Calibration Check
12/09/2006 23:45	12/09/2006 23:50	0:05	C	Calibration Check
12/10/2006 12:47	12/10/2006 12:54	0:07	C	Calibration Check
12/10/2006 19:40	12/10/2006 19:44	0:04	C	Calibration Check
12/11/2006 07:53	12/11/2006 08:03	0:10	C	Calibration Check
12/11/2006 17:21	12/11/2006 17:30	0:09	C	Calibration Check
12/12/2006 07:55	12/12/2006 08:04	0:09	C	Calibration Check
12/12/2006 18:56	12/12/2006 19:05	0:09	C	Calibration Check
12/13/2006 08:41	12/13/2006 08:51	0:10	C	Calibration Check

Total	9:27

Percent Data Availability

Minute Basis	**99.57%**
15 Minute Basis (PS-8 Std)	**100.75%**
1 Hour Basis (PS-8 Std)	**98.22%**

Explanation of Reason Codes

A	Process Down
B	Scheduled Maintenance
C	CEM in Calibration mode
D	DAS program Maintenance
E	Error in DAS record information
F	Failure of Minor CEM System Component
G	Failure of Major CEM System Component

Q4 2006 VOC Monitoring
FAB 11S FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
1	11/29/2006 00:59	0.74	57	12/01/2006 08:59	1.05	113	12/03/2006 16:59	1.01
2	11/29/2006 01:59	0.73	58	12/01/2006 09:59	1.09	114	12/03/2006 17:59	1.01
3	11/29/2006 02:59	0.73	59	12/01/2006 10:59	1.10	115	12/03/2006 18:59	1.03
4	11/29/2006 03:59	0.72	60	12/01/2006 11:59	1.08	116	12/03/2006 19:59	1.03
5	11/29/2006 04:59	0.72	61	12/01/2006 12:59	1.06	117	12/03/2006 20:59	1.04
6	11/29/2006 05:59	0.72	62	12/01/2006 13:59	1.05	118	12/03/2006 21:59	1.05
7	11/29/2006 06:59	0.71	63	12/01/2006 14:59	1.06	119	12/03/2006 22:59	1.00
8	11/29/2006 07:59	0.67	64	12/01/2006 15:59	1.06	120	12/03/2006 23:59	0.98
9	11/29/2006 08:59	0.66	65	12/01/2006 16:59	1.03	121	12/04/2006 00:59	0.98
10	11/29/2006 09:59	0.76	66	12/01/2006 17:59	1.05	122	12/04/2006 01:59	0.97
11	11/29/2006 10:59	0.96	67	12/01/2006 18:59	1.04	123	12/04/2006 02:59	0.99
12	11/29/2006 11:59	0.97	68	12/01/2006 19:59	1.00	124	12/04/2006 03:59	0.99
13	11/29/2006 12:59	0.96	69	12/01/2006 20:59	1.01	125	12/04/2006 04:59	0.99
14	11/29/2006 13:59	0.93	70	12/01/2006 21:59	1.03	126	12/04/2006 05:59	0.96
15	11/29/2006 14:59	0.89	71	12/01/2006 22:59	1.04	127	12/04/2006 06:59	1.02
16	11/29/2006 15:59	0.88	72	12/01/2006 23:59	1.04	128	12/04/2006 07:59	1.05
17	11/29/2006 16:59	0.90	73	12/02/2006 00:59	1.05	129	12/04/2006 08:59	1.05
18	11/29/2006 17:59	0.96	74	12/02/2006 01:59	1.01	130	12/04/2006 09:59	0.98
19	11/29/2006 18:59	0.98	75	12/02/2006 02:59	1.05	131	12/04/2006 10:59	0.97
20	11/29/2006 19:59	0.97	76	12/02/2006 03:59	1.07	132	12/04/2006 11:59	1.00
21	11/29/2006 20:59	0.99	77	12/02/2006 04:59	1.06	133	12/04/2006 12:59	1.00
22	11/29/2006 21:59	0.99	78	12/02/2006 05:59	1.08	134	12/04/2006 13:59	1.01
23	11/29/2006 22:59	0.96	79	12/02/2006 06:59	1.18	135	12/04/2006 14:59	1.05
24	11/29/2006 23:59	0.96	80	12/02/2006 07:59	1.24	136	12/04/2006 15:59	1.05
25	11/30/2006 00:59	1.00	81	12/02/2006 08:59	1.32	137	12/04/2006 16:59	1.06
26	11/30/2006 01:59	1.01	82	12/02/2006 09:59	1.45	138	12/04/2006 17:59	1.16
27	11/30/2006 02:59	1.05	83	12/02/2006 10:59	1.54	139	12/04/2006 18:59	1.28
28	11/30/2006 03:59	1.06	84	12/02/2006 11:59	1.21	140	12/04/2006 19:59	1.27
29	11/30/2006 04:59	1.07	85	12/02/2006 12:59	1.35	141	12/04/2006 20:59	1.26
30	11/30/2006 05:59	1.07	86	12/02/2006 13:59		142	12/04/2006 21:59	1.22
31	11/30/2006 06:59	1.13	87	12/02/2006 14:59		143	12/04/2006 22:59	1.17
32	11/30/2006 07:59	0.97	88	12/02/2006 15:59		144	12/04/2006 23:59	1.17
33	11/30/2006 08:59	0.99	89	12/02/2006 16:59		145	12/05/2006 00:59	1.19
34	11/30/2006 09:59	1.05	90	12/02/2006 17:59		146	12/05/2006 01:59	1.18
35	11/30/2006 10:59	1.05	91	12/02/2006 18:59		147	12/05/2006 02:59	1.17
36	11/30/2006 11:59	1.06	92	12/02/2006 19:59		148	12/05/2006 03:59	1.16
37	11/30/2006 12:59	1.05	93	12/02/2006 20:59	0.91	149	12/05/2006 04:59	1.16
38	11/30/2006 13:59	1.05	94	12/02/2006 21:59	0.79	150	12/05/2006 05:59	1.12
39	11/30/2006 14:59	1.04	95	12/02/2006 22:59	0.73	151	12/05/2006 06:59	1.15
40	11/30/2006 15:59	1.04	96	12/02/2006 23:59	0.73	152	12/05/2006 07:59	1.22
41	11/30/2006 16:59	1.05	97	12/03/2006 00:59	0.73	153	12/05/2006 08:59	1.26
42	11/30/2006 17:59	1.05	98	12/03/2006 01:59	0.73	154	12/05/2006 09:59	1.25
43	11/30/2006 18:59	1.05	99	12/03/2006 02:59	0.76	155	12/05/2006 10:59	1.19
44	11/30/2006 19:59	1.03	100	12/03/2006 03:59	0.77	156	12/05/2006 11:59	1.18
45	11/30/2006 20:59	1.05	101	12/03/2006 04:59	0.79	157	12/05/2006 12:59	1.23
46	11/30/2006 21:59	1.04	102	12/03/2006 05:59	0.80	158	12/05/2006 13:59	1.18
47	11/30/2006 22:59	1.07	103	12/03/2006 06:59	0.84	159	12/05/2006 14:59	1.18
48	11/30/2006 23:59	1.06	104	12/03/2006 07:59	0.87	160	12/05/2006 15:59	1.17
49	12/01/2006 00:59	1.02	105	12/03/2006 08:59	0.95	161	12/05/2006 16:59	1.17
50	12/01/2006 01:59	0.99	106	12/03/2006 09:59	0.95	162	12/05/2006 17:59	1.17
51	12/01/2006 02:59	0.99	107	12/03/2006 10:59	0.97	163	12/05/2006 18:59	1.12
52	12/01/2006 03:59	0.99	108	12/03/2006 11:59	0.99	164	12/05/2006 19:59	1.21
53	12/01/2006 04:59	0.99	109	12/03/2006 12:59	0.99	165	12/05/2006 20:59	1.25
54	12/01/2006 05:59	0.99	110	12/03/2006 13:59	0.99	166	12/05/2006 21:59	1.25
55	12/01/2006 06:59	0.99	111	12/03/2006 14:59	0.99	167	12/05/2006 22:59	1.23
56	12/01/2006 07:59	0.99	112	12/03/2006 15:59	0.99	168	12/05/2006 23:59	1.21

Q4 2006 VOC Monitoring
FAB 11S FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
169	12/06/2006 00:59	1.23	225	12/08/2006 08:59	0.99	281	12/10/2006 16:59	1.18
170	12/06/2006 01:59	1.24	226	12/08/2006 09:59	0.99	282	12/10/2006 17:59	1.18
171	12/06/2006 02:59	1.24	227	12/08/2006 10:59	1.00	283	12/10/2006 18:59	1.16
172	12/06/2006 03:59	1.20	228	12/08/2006 11:59	1.01	284	12/10/2006 19:59	1.14
173	12/06/2006 04:59	1.21	229	12/08/2006 12:59	1.02	285	12/10/2006 20:59	1.14
174	12/06/2006 05:59	1.21	230	12/08/2006 13:59	1.02	286	12/10/2006 21:59	1.16
175	12/06/2006 06:59	1.19	231	12/08/2006 14:59	0.99	287	12/10/2006 22:59	1.15
176	12/06/2006 07:59	1.21	232	12/08/2006 15:59	0.98	288	12/10/2006 23:59	1.17
177	12/06/2006 08:59	1.28	233	12/08/2006 16:59	0.97	289	12/11/2006 00:59	1.14
178	12/06/2006 09:59	1.20	234	12/08/2006 17:59	1.05	290	12/11/2006 01:59	1.12
179	12/06/2006 10:59	1.26	235	12/08/2006 18:59	1.15	291	12/11/2006 02:59	1.17
180	12/06/2006 11:59	1.31	236	12/08/2006 19:59	1.15	292	12/11/2006 03:59	1.15
181	12/06/2006 12:59	1.33	237	12/08/2006 20:59	1.13	293	12/11/2006 04:59	1.17
182	12/06/2006 13:59	1.32	238	12/08/2006 21:59	1.11	294	12/11/2006 05:59	1.20
183	12/06/2006 14:59	1.29	239	12/08/2006 22:59	1.05	295	12/11/2006 06:59	1.21
184	12/06/2006 15:59	1.27	240	12/08/2006 23:59	1.07	296	12/11/2006 07:59	1.23
185	12/06/2006 16:59	1.21	241	12/09/2006 00:59	1.07	297	12/11/2006 08:59	1.13
186	12/06/2006 17:59	1.22	242	12/09/2006 01:59	1.03	298	12/11/2006 09:59	1.22
187	12/06/2006 18:59	1.17	243	12/09/2006 02:59	1.00	299	12/11/2006 10:59	1.26
188	12/06/2006 19:59	1.12	244	12/09/2006 03:59	1.01	300	12/11/2006 11:59	1.25
189	12/06/2006 20:59	1.13	245	12/09/2006 04:59	0.98	301	12/11/2006 12:59	1.25
190	12/06/2006 21:59	1.08	246	12/09/2006 05:59	1.00	302	12/11/2006 13:59	1.25
191	12/06/2006 22:59	1.08	247	12/09/2006 06:59	1.07	303	12/11/2006 14:59	1.27
192	12/06/2006 23:59	1.09	248	12/09/2006 07:59	1.02	304	12/11/2006 15:59	1.29
193	12/07/2006 00:59	1.09	249	12/09/2006 08:59	0.99	305	12/11/2006 16:59	1.29
194	12/07/2006 01:59	1.09	250	12/09/2006 09:59	1.05	306	12/11/2006 17:59	1.24
195	12/07/2006 02:59	1.11	251	12/09/2006 10:59	1.03	307	12/11/2006 18:59	1.18
196	12/07/2006 03:59	1.13	252	12/09/2006 11:59	1.03	308	12/11/2006 19:59	1.19
197	12/07/2006 04:59	1.10	253	12/09/2006 12:59	1.04	309	12/11/2006 20:59	1.20
198	12/07/2006 05:59	1.14	254	12/09/2006 13:59	1.06	310	12/11/2006 21:59	1.22
199	12/07/2006 06:59	1.17	255	12/09/2006 14:59	1.04	311	12/11/2006 22:59	1.28
200	12/07/2006 07:59	1.18	256	12/09/2006 15:59	1.04	312	12/11/2006 23:59	1.19
201	12/07/2006 08:59	1.23	257	12/09/2006 16:59	1.05	313	12/12/2006 00:59	1.18
202	12/07/2006 09:59	1.27	258	12/09/2006 17:59	1.04	314	12/12/2006 01:59	1.19
203	12/07/2006 10:59	1.28	259	12/09/2006 18:59	1.03	315	12/12/2006 02:59	1.19
204	12/07/2006 11:59	1.23	260	12/09/2006 19:59	1.00	316	12/12/2006 03:59	1.18
205	12/07/2006 12:59	1.21	261	12/09/2006 20:59	1.00	317	12/12/2006 04:59	1.17
206	12/07/2006 13:59	1.22	262	12/09/2006 21:59	0.99	318	12/12/2006 05:59	1.18
207	12/07/2006 14:59	1.23	263	12/09/2006 22:59	0.99	319	12/12/2006 06:59	1.21
208	12/07/2006 15:59	1.19	264	12/09/2006 23:59	1.00	320	12/12/2006 07:59	1.19
209	12/07/2006 16:59	1.15	265	12/10/2006 00:59	1.04	321	12/12/2006 08:59	1.06
210	12/07/2006 17:59	1.14	266	12/10/2006 01:59	1.05	322	12/12/2006 09:59	1.12
211	12/07/2006 18:59	1.08	267	12/10/2006 02:59	1.05	323	12/12/2006 10:59	1.06
212	12/07/2006 19:59	1.06	268	12/10/2006 03:59	1.02	324	12/12/2006 11:59	1.06
213	12/07/2006 20:59	1.05	269	12/10/2006 04:59	0.99	325	12/12/2006 12:59	1.10
214	12/07/2006 21:59	1.05	270	12/10/2006 05:59	1.00	326	12/12/2006 13:59	1.11
215	12/07/2006 22:59	1.01	271	12/10/2006 06:59	1.00	327	12/12/2006 14:59	1.13
216	12/07/2006 23:59	1.00	272	12/10/2006 07:59	0.99	328	12/12/2006 15:59	1.14
217	12/08/2006 00:59	0.99	273	12/10/2006 08:59	1.02	329	12/12/2006 16:59	1.12
218	12/08/2006 01:59	1.00	274	12/10/2006 09:59	1.02	330	12/12/2006 17:59	1.04
219	12/08/2006 02:59	0.99	275	12/10/2006 10:59	1.02	331	12/12/2006 18:59	0.98
220	12/08/2006 03:59	0.96	276	12/10/2006 11:59	0.98	332	12/12/2006 19:59	1.17
221	12/08/2006 04:59	0.96	277	12/10/2006 12:59	1.03	333	12/12/2006 20:59	1.14
222	12/08/2006 05:59	0.97	278	12/10/2006 13:59	1.23	334	12/12/2006 21:59	1.07
223	12/08/2006 06:59	0.97	279	12/10/2006 14:59	1.20	335	12/12/2006 22:59	1.06
224	12/08/2006 07:59	0.98	280	12/10/2006 15:59	1.18	336	12/12/2006 23:59	1.06

Q4 2006 VOC Monitoring
FAB 11S FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
337	12/13/2006 00:59	1.06	393	01/00/1900 00:00				
338	12/13/2006 01:59	1.06	394	01/00/1900 00:00				
339	12/13/2006 02:59	1.05	395	01/00/1900 00:00				
340	12/13/2006 03:59	1.06	396	01/00/1900 00:00				
341	12/13/2006 04:59	1.08	397	01/00/1900 00:00				
342	12/13/2006 05:59	1.03	398	01/00/1900 00:00				
343	12/13/2006 06:59	1.05	399	01/00/1900 00:00				
344	12/13/2006 07:59	1.05	400	01/00/1900 00:00				
345	12/13/2006 08:59	1.08	401	01/00/1900 00:00				
346	12/13/2006 09:59		402	01/00/1900 00:00				
347	12/13/2006 10:59		403	01/00/1900 00:00				
348	12/13/2006 11:59		404	01/00/1900 00:00				
349	12/13/2006 12:59		405	01/00/1900 00:00				
350	12/13/2006 13:59		406	01/00/1900 00:00				
351	12/13/2006 14:59		407	01/00/1900 00:00				
352	12/13/2006 15:59		408	01/00/1900 00:00				
353	12/13/2006 16:59		409	01/00/1900 00:00				
354	01/00/1900 00:00		410	01/00/1900 00:00				
355	01/00/1900 00:00		411	01/00/1900 00:00				
356	01/00/1900 00:00		412	01/00/1900 00:00				
357	01/00/1900 00:00		413	01/00/1900 00:00				
358	01/00/1900 00:00		414	01/00/1900 00:00				
359	01/00/1900 00:00		415	01/00/1900 00:00				
360	01/00/1900 00:00		416	01/00/1900 00:00				
361	01/00/1900 00:00		417	01/00/1900 00:00				
362	01/00/1900 00:00		418	01/00/1900 00:00				
363	01/00/1900 00:00		419	01/00/1900 00:00				
364	01/00/1900 00:00		420	01/00/1900 00:00				
365	01/00/1900 00:00							
366	01/00/1900 00:00							
367	01/00/1900 00:00							
368	01/00/1900 00:00							
369	01/00/1900 00:00							
370	01/00/1900 00:00							
371	01/00/1900 00:00							
372	01/00/1900 00:00							
373	01/00/1900 00:00							
374	01/00/1900 00:00							
375	01/00/1900 00:00							
376	01/00/1900 00:00							
377	01/00/1900 00:00							
378	01/00/1900 00:00							
379	01/00/1900 00:00							
380	01/00/1900 00:00							
381	01/00/1900 00:00							
382	01/00/1900 00:00							
383	01/00/1900 00:00							
384	01/00/1900 00:00							
385	01/00/1900 00:00							
386	01/00/1900 00:00							
387	01/00/1900 00:00							
388	01/00/1900 00:00							
389	01/00/1900 00:00							
390	01/00/1900 00:00							
391	01/00/1900 00:00							
392	01/00/1900 00:00							

FID Monitoring Calibration Data
Intel Rio Rancho, New Mexico
Q4 2006
FAB 11S Main Outlet

Drift Checks

Zero							Mid Cal Gas						
Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment	Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment
11/29/2006 9:30	-0.22	0.00	No	0.19	0.22	Zero Check	11/29/2006 09:28	49.54	50.40	No	1.00	0.86	Cal Check
11/29/2006 09:32	-0.02	0.00	Yes	#N/A	0.02		11/29/2006 09:34	49.91	50.40	Yes	#N/A	0.49	
11/29/2006 19:13	0.09	0.00	No	0.08	0.09		11/29/2006 19:11	50.37	50.40	No	0.54	0.03	
11/30/2006 07:12	0.26	0.00	No	0.17	0.26		11/30/2006 07:10	51.01	50.40	No	0.64	0.61	
11/30/2006 07:14	0.00	0.00	Yes	#N/A	0.00		11/30/2006 07:16	51.06	50.40	Yes	#N/A	0.66	
11/30/2006 18:07	0.09	0.00	No	0.27	0.09		11/30/2006 18:05	51.32	50.40	No	0.90	0.92	
12/01/2006 08:29	0.03	0.00	No	0.07	0.03		12/01/2006 08:27	51.29	50.40	No	0.03	0.89	
12/01/2006 16:56	-0.08	0.00	No	0.18	0.08		12/01/2006 16:53	51.14	50.40	No	0.18	0.74	
12/02/2006 10:54	0.46	0.00	No	0.54	0.46		12/02/2006 10:52	51.74	50.40	No	0.60	1.34	
12/02/2006 10:55	0.04	0.00	Yes	#N/A	0.04		12/02/2006 10:57	50.73	50.00	Yes	#N/A	0.73	
12/02/2006 19:04	6.93	0.00	No				12/02/2006 19:02	57.13	50.00	No			
12/02/2006 19:26	0.03	0.00	Yes	#N/A	0.03		12/02/2006 19:28	50.62	50.00	Yes	#N/A	0.62	
12/02/2006 19:52	-0.21	0.00	No	0.09	0.21		12/02/2006 19:50	49.70	50.00	No		0.30	
12/02/2006 19:54	0.00	0.00	Yes	#N/A	0.00		12/02/2006 19:57	50.69	50.00	Yes	#N/A	0.69	
12/03/2006 11:21	0.00	0.00	No	0.01	0.00		12/03/2006 11:19	50.22	50.00	No	0.47	0.22	
12/03/2006 18:40	-0.03	0.00	No	0.02	0.03		12/03/2006 18:38	50.12	50.00	No	0.57	0.12	
12/04/2006 10:57	-0.06	0.00	No	0.04	0.06		12/04/2006 10:55	50.16	50.00	No	0.04	0.16	
12/04/2006 17:31	-0.19	0.00	No	0.16	0.19		12/04/2006 17:29	49.95	50.00	No	0.17	0.05	
12/04/2006 17:33	0.00	0.00	Yes	#N/A	0.00		12/04/2006 17:35	50.75	50.00	Yes	#N/A	0.75	
12/05/2006 08:25	-0.02	0.00	No	0.01	0.02		12/05/2006 08:23	50.75	50.00	No	0.00	0.75	
12/05/2006 18:58	-0.16	0.00	No	0.15	0.16		12/05/2006 18:54	50.60	50.00	No	0.15	0.60	
12/06/2006 09:07	-0.02	0.00	No	0.14	0.02		12/06/2006 09:03	50.62	50.00	No	0.02	0.62	
12/06/2006 17:47	-0.01	0.00	No	0.15	0.01		12/06/2006 17:45	50.82	50.00	No	0.22	0.82	
12/07/2006 11:22	-0.02	0.00	No	0.01	0.02		12/07/2006 11:18	51.10	50.00	No	0.28	1.10	
12/08/2006 08:37	-0.02	0.00	No	0.00	0.02		12/08/2006 08:35	50.69	50.00	No	0.41	0.69	
12/08/2006 17:33	0.01	0.00	No	0.02	0.01		12/08/2006 17:30	50.48	50.00	No	0.62	0.48	
12/09/2006 23:49	-0.10	0.00	No	0.11	0.10		12/09/2006 23:47	50.51	50.00	No	0.03	0.51	
12/10/2006 12:51	-0.02	0.00	No	0.08	0.02		12/10/2006 12:48	50.34	50.00	No	0.17	0.34	
12/10/2006 19:43	0.03	0.00	No	0.13	0.03		12/10/2006 19:41	50.71	50.00	No	0.20	0.71	
12/11/2006 07:58	0.14	0.00	Yes	#N/A	0.14		12/10/2006 19:42	51.08	50.00	Yes	#N/A	1.08	
12/11/2006 08:00	0.01	0.00	No	0.14	0.01		12/11/2006 08:02	50.73	50.00	No	0.35	0.73	
12/11/2006 17:26	0.00	0.00	No	0.15	0.00		12/11/2006 17:23	50.73	50.00	No	0.35	0.73	
12/12/2006 08:00	0.05	0.00	No	0.06	0.05		12/12/2006 07:57	50.96	50.00	No	0.23	0.96	
12/12/2006 19:00	-0.23	0.00	Yes	#N/A	0.23		12/12/2006 18:58	50.08	50.00	Yes	#N/A	0.08	
12/12/2006 19:01	0.00	0.00	No	0.28	0.00		12/12/2006 19:04	50.62	50.00	No	0.77	0.62	
12/13/2006 08:46	-0.02	0.00	No	0.02	0.02		12/13/2006 08:43	50.45	50.00	No	0.17	0.45	
		0.00		0.00	0.00				50.00		0.00	0.00	

Linearity Check

Date & Time	Gas	Cyl. No	Actual	Recorded	% Error
11/1/2006 14:35	Zero	ALM017631	0.00	-0.03	-0.03%
11/1/2006 14:44	Low	ALM021785	30.1	30.21	0.11%
11/1/2006 14:42	Mid	ALM050165	50.7	50.54	-0.16%
11/1/2006 14:39	High	ALM061202	85.3	85.4	0.10%

FID QUALITY ASSURANCE CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM
TRC Project Number: 31397-3200-00000
Sample Location: Fab 11S RCTO Outlet

					Instrument							Combustion Air Cylinder				Hydrogen Generator					Sampling Transport System		Data Acquisition			
Date	Time	Technician	Instrument Serial No.	Range	Sample Press. (psig)	Air Press. (psig)	Fuel Press. (psig)	Coll. Volts	+ VDC	Burner Temp (°C)	Oven Temp (°C)	Cylinder Number	Press. (psig)	Change Cylinder	Cylinder Number	Press. (psig)	Ser#	Press. (psig)	Gain Set.	H_2O Level	Dryer Tube	Sample Line Temp (°F)	Operational (Y/N)	Temp (°C)	Batt Volts	Data Recovered (Y/N)	File Name
11/28/06	15:55	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	338	163	ALM032654	1900	No	N/A	N/A	901374	24.0	2.40	70%	Ok	251	Y	25.73	13.31	Y	11S.dat
11/29/06	9:30	WM/MS	4N11010	0-100	2.2	9.5	5.6	-249	15.7	339	163	ALM032654	1700	No	N/A	N/A	901374	24.0	2.40	65%	Ok	252	Y	25.665	13.319	Y	11S.dat
11/29/06	19:14	WM/MS	4N11010	0-100	2.2	9.5	5.6	-249	15.7	339	164	ALM032654	1650	No	N/A	N/A	901374	24.0	2.40	65%	Ok	252	Y	25.191	13.345	Y	11S.dat
11/30/06	7:17	WM/MS	4N11010	0-100	2.2	9.5	5.6	-249	15.7	339	163	ALM032654	1550	No	N/A	N/A	901374	24.0	2.40	60%	Ok	252	Y	26.126	13.332	Y	11S.dat
11/30/06	17:55	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	336	164	ALM032654	1475	No	N/A	N/A	901374	24.0	2.40	60%	Ok	252	Y	26.442	13.332	Y	11S.dat
12/1/06	8:22	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	335	163	ALM032654	1325	No	N/A	N/A	901374	24.0	2.40	55%	Ok	252	Y	25.395	13.352	Y	11S.dat
12/1/06	17:05	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	335	164	ALM032654	1250	No	N/A	N/A	901374	24.0	2.40	55%	Ok	252	Y	25.746	13.345	Y	11S.dat
12/2/06	10:45	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	336	163	ALM032654	1100	No	N/A	N/A	901374	24.0	2.40	55%	Ok	252	Y	25.589	13.345	Y	11S.dat
12/2/06	19:58	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	334	164	ALM032654	1000	No	N/A	N/A	901374	24.0	2.40	55%	Ok	252	Y	25.628	13.345	Y	11S.dat
12/3/06	11:25	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	336	163	ALM032654	900	No	N/A	N/A	901374	24.0	2.40	55%	Ok	252	Y	24.765	13.365	Y	11S.dat
12/3/06	18:40	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	336	163	ALM032654	800	No	N/A	N/A	901374	24.0	2.40	55%	Ok	252	Y	24.683	13.365	Y	11S.dat
12/4/06	10:50	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	336	163	ALM032654	675	No	N/A	N/A	901374	24.0	2.40	55%	Ok	252	Y	24.764	13.372	Y	11S.dat
12/4/06	17:32	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	335	164	ALM032654	600	No	N/A	N/A	901374	24.0	2.40	50%	Ok	251	Y	25.04	13.36	Y	11S.dat
12/5/06	8:19	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	335	163	ALM032654	475	No	N/A	N/A	901374	24.0	2.40	40%	Ok	252	Y	24.697	13.372	Y	11S.dat
12/5/06	19:10	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	333	163	ALM032654	400	Yes	AH028750	2200	901374	24.0	2.40	40%	Ok	252	Y	25.081	13.358	Y	11S.dat
12/6/06	8:57	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	333	162	AH028750	2100	No	N/A	N/A	901374	24.0	2.40	30%	Ok	252	Y	25.61	13.352	Y	11S.dat
12/6/06	17:55	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	333	162	AH028750	2050	No	N/A	N/A	901374	24.0	2.40	30%	Ok	251	Y	26.547	13.325	Y	11S.dat
12/7/06	11:25	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	334	162	AH028750	1950	No	N/A	N/A	901374	24.0	2.40	30%	Ok	252	Y	25.731	13.339	Y	11S.dat
12/8/06	8:45	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	334	162	AH028750	1800	No	N/A	N/A	901374	24.0	2.40	30%	Ok	252	Y	25.538	13.352	Y	11S.dat
12/8/06	17:40	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	333	162	AH028750	1775	No	N/A	N/A	901374	24.0	2.40	30%	Ok	252	Y	25.785	13.339	Y	11S.dat
12/9/06	10:00	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	333	162	AH028750	1675	No	N/A	N/A	901374	24.0	2.40	25%	Ok	252	Y	25.579	13.352	Y	11S.dat
12/9/06	23:55	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	332	162	AH028750	1600	No	N/A	N/A	901374	24.0	2.40	25%	Ok	252	Y	25.70	13.35	Y	11S.dat
12/10/06	12:55	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	332	163	AH028750	1500	No	N/A	N/A	901374	24.0	2.40	25%	Ok	252	Y	25.609	13.339	Y	11S.dat
12/10/06	19:45	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	332	163	AH028750	1475	No	N/A	N/A	901374	24.0	2.40	25%	Ok	252	Y	25.678	13.345	Y	11S.dat
12/11/06	7:53	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	334	163	AH028750	1400	No	N/A	N/A	901374	24.0	2.40	25%	Ok	252	Y	25.092	13.36	Y	11S.dat
12/11/06	17:30	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	334	163	AH028750	1350	No	N/A	N/A	901374	24.0	2.40	25%	Ok	252	Y	24.827	13.372	Y	11S.dat
12/12/06	7:50	TS	4N11010	0-100	2.2	9.4	5.6	-249	15.7	334	162	AH028750	1250	No	N/A	N/A	901374	24.0	2.40	25%	Ok	256	Y	24.775	13.372	Y	11S.dat
12/12/06	18:55	WM	4N11010	0-100	2.2	9.4	5.6	-249	15.7	331	163	AH028750	1175	No	N/A	N/A	901374	24.0	2.40	25%	Ok	252	Y	26.03	13.346	Y	11S.dat

FID CALIBRATION CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM

TRC Project Number: 31397-3200-00000

Sample Location: Fab 11S RCTO Outlet

Daily Visual Checks

						Unadjusted						Adjusted					
		Inst.	Zero	Mid		Values				Setpoint		Values				Setpoint	
Technician	Date	Ser. #	Cyl. #	Cyl. #	Conc.	Zero	Time	Mid	Time	Zero	Gain	Zero	Time	Mid	Time	Zero	Gain
WM	11/28/06	4N11010	ALM017631	ALM050156	50.7	-0.03	14:35	50.5	14:42	6.68	5.56	N/A	N/A	N/A	N/A	N/A	N/A
WM/MS	11/29/06	4N11010	ALM017631	ALM050156	50.7	-0.23	9:30	49.52	9:28	6.68	5.56	0.00	9:32	49.92	9:34	6.77	5.56
WM/MS	11/29/06	4N11010	ALM017631	ALM050156	50.7	0.10	19:13	50.35	19:11	6.77	5.56	N/A	N/A	N/A	N/A	N/A	N/A
WM/MS	11/30/06	4N11010	ALM017631	ALM050156	50.7	0.26	7:12	50.97	7:10	6.77	5.56	0.00	7:14	51.01	7:16	6.68	5.59
WM/MS	11/30/06	4N11010	ALM017631	ALM050156	50.7	0.10	18:07	51.30	18:05	6.68	5.59	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/1/06	4N11010	ALM017631	ALM050156	50.7	0.03	8:29	51.31	8:27	6.68	5.59	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/1/06	4N11010	ALM017631	ALM050156	50.7	-0.07	16:56	51.11	16:53	6.68	5.59	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/2/06	4N11010	ALM017631	ALM050156	50.7	0.46	10:54	51.77	10:52	6.68	5.59	0.00	10:55	50.71	10:57	6.52	5.47
WM	12/2/06	4N11010	ALM017631	ALM050156	50.7	6.86	19:04	57.04	19:02	6.52	5.47	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/2/06	4N11010	ALM017631	ALM050156	50.7	N/A	N/A	N/A	N/A	N/A	N/A	0.03	19:26	50.65	19:28	6.41	5.27
WM	12/2/06	4N11010	ALM017631	ALM050156	50.7	-0.23	19:52	49.63	19:50	6.41	5.27	0.00	19:54	50.71	19:57	6.49	5.32
WM	12/3/06	4N11010	ALM017631	ALM050156	50.7	0.03	11:21	50.26	11:19	6.49	5.32	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/3/06	4N11010	ALM017631	ALM050156	50.7	0.00	18:40	50.13	18:38	6.49	5.32	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/4/06	4N11010	ALM017631	ALM050156	50.7	-0.03	10:57	50.07	10:55	6.49	5.32	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/4/06	4N11010	ALM017631	ALM050156	50.7	-0.17	17:31	49.93	17:29	6.49	5.32	0.00	17:33	50.65	17:35	6.57	5.42
WM	12/5/06	4N11010	ALM017631	ALM050156	50.7	0.00	8:25	50.73	8:23	6.57	5.42	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/5/06	4N11010	ALM017631	ALM050156	50.7	-0.07	18:56	50.62	18:54	6.57	5.42	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/5/06	4N11010	ALM017631	ALM050156	50.7	N/A	N/A	N/A	N/A	N/A	N/A	0.00	19:04	50.76	19:07	6.35	4.84
WM	12/6/06	4N11010	ALM017631	ALM050156	50.7	0.20	9:05	50.62	9:03	6.35	4.84	0.00	9:07	50.68	9:09	6.30	4.87
WM	12/6/06	4N11010	ALM017631	ALM050156	50.7	0.03	17:47	50.81	17:45	6.30	4.87	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/7/06	4N11010	ALM017631	ALM050156	50.7	0.17	11:20	51.11	11:18	6.30	4.87	-0.01	11:22	50.64	11:24	6.27	4.84
WM	12/8/06	4N11010	ALM017631	ALM050156	50.7	0.02	8:37	50.65	8:35	6.27	4.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/8/06	4N11010	ALM017631	ALM050156	50.7	-0.17	17:32	50.38	17:30	6.27	4.84	0.00	17:34	50.68	17:36	6.35	4.84
WM	12/9/06	4N11010	ALM017631	ALM050156	50.7	0.01	10:05	50.58	10:03	6.35	4.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/9/06	4N11010	ALM017631	ALM050156	50.7	-0.10	23:49	50.51	23:47	6.35	4.84	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/10/06	4N11010	ALM017631	ALM050156	50.7	-0.23	12:50	50.25	12:48	6.36	4.84	0.00	12:51	50.71	12:53	6.43	4.87
WM	12/10/06	4N11010	ALM017631	ALM050156	50.7	0.03	19:43	50.78	19:41	6.43	4.97	N/A	N/A	N/A	N/A	N/A	N/A
WM	12/11/06	4N11010	ALM017631	ALM050156	50.7	0.10	7:58	51.10	7:55	6.43	4.97	0.00	8:00	50.65	8:02	6.39	4.81
WM	12/11/06	4N11010	ALM017631	ALM050156	50.7	0.15	17:25	50.73	17:23	6.39	4.81	-0.03	17:27	50.66	17:29	6.36	4.83
TS	12/12/06	4N11010	ALM017631	ALM050156	50.7	0.17	7:59	50.92	7:57	6.36	4.83	-0.03	8:00	50.79	8:03	6.30	4.81
WM	12/12/06	4N11010	ALM017631	ALM050156	50.7	-0.23	19:00	50.12	18:58	6.30	4.81	0.00	19:02	50.71	19:04	6.40	4.86

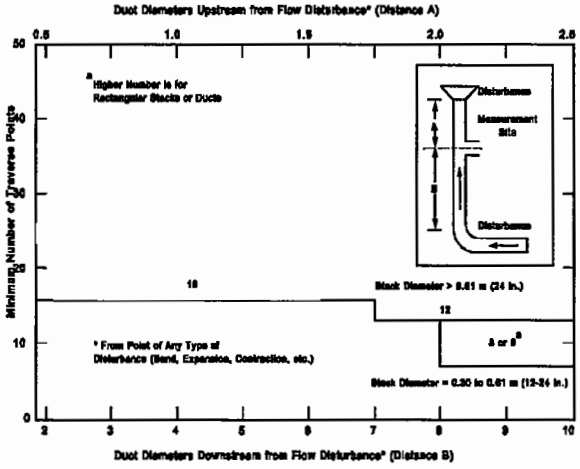
Reference Method Flow Calculations
Intel Rio Rancho, New Mexico
Q4 2006 FAB 11S Main Exhaust Stack

Run No.	1	2	3	
Date	11/30/2006	12/06/2007	12/12/2007	AVERAGE
Start Time	9:35	15:25	16:30	
Stop Time	9:50	15:45	16:38	
Barometric Pressure, in. Hg	24.87	24.91	24.96	24.91
Moisture, %	1.32	1.36	1.42	1.37
Saturation Moisture %	21.67%	18.04%	18.07%	19.26%
Dry Mole Fraction, 100-%	0.9868	0.9864	0.9858	0.9863
CO_2 at Stack, $\%_{dry}$	0.23	0.23	0.23	0.23
O_2 at Stack, $\%_{dry}$	20.67	20.67	20.67	20.67
CO + N_2, % dry	79.10	79.10	79.10	79.10
Dry Molecular Weight, lb/lb mole	28.86	28.86	28.86	28.86
Wet Molecular Weight, lb/lb mole	28.72	28.72	28.71	28.72
Stack Diameter inches	48.00	48.00	48.00	48.00
Stack Area, sq. ft. (@ flow meas. loc.)	12.57	12.57	12.57	12.57
Static Pressure, in. of H_2O	0.00	-0.05	0.08	0.01
Stack Pressure, in. of Hg	24.87	24.91	24.97	24.91
Avg. Stack Temp.,°F	137.0	130.1	130.3	132.5
Avg. Stack Temp.,°R	597.0	590.1	590.3	592.5
Avg. Sqroot of Delta P	0.7615	0.8024	0.7914	0.7851
SDE Average	18.604	19.493	19.227	19.108
Pitot Coefficient	0.84	0.84	0.84	0.84
Stack Gas Velocity, afpm	2,999	3,141	3,094	3,078
Stack Gas Velocity, afps	49.99	52.34	51.57	51.30
Stack Flowrate, wet acfm	37,691	39,465	38,884	38,680
Stack Flowrate, dry scfm	27,334	28,982	28,599	28,305

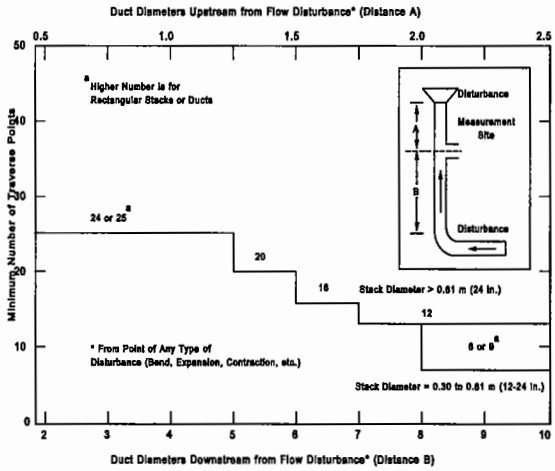
EPA REFERENCE METHOD 1
FIELD DATA SHEET
CIRCULAR STACKS

Firm Name:	Intel	Stack Diameter:	48.0
Plant Location:	Rio Rancho, New Mexico	Sample Port Diameter:	3.0
Sampling Location:	Fab 11S RTO Exhaust	Sample Port Depth:	4.0
TRC Project No.	31397-3100-00000	Diameters Upstream:	1.2
Date:	11/29/2006	Diameters Downstream:	7.0
Technician:	WM/MS	Flow or Particulate Test:	F
Circular/Rectangular:	C	Number of Test Ports:	2

For Flow Traverses



For Particulate Traverses



	Number of Traverse Points On a Diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
Traverse Point No.	Fraction of Diameter to Locate Traverse Point											
1	0.146	0.067	0.044	0.032	0.026	0.021	0.018	0.016	0.014	0.013	0.011	0.011
2	0.854	0.250	0.146	0.105	0.082	0.067	0.057	0.049	0.044	0.039	0.035	0.032
3		0.750	0.296	0.194	0.146	0.118	0.099	0.085	0.075	0.067	0.060	0.055
4		0.933	0.704	0.323	0.226	0.177	0.146	0.125	0.109	0.097	0.087	0.079
5			0.854	0.677	0.342	0.250	0.201	0.169	0.146	0.129	0.116	0.105
6			0.956	0.806	0.658	0.356	0.269	0.220	0.188	0.165	0.146	0.132
7				0.895	0.774	0.644	0.366	0.283	0.236	0.204	0.180	0.161
8				0.968	0.854	0.750	0.634	0.375	0.296	0.250	0.218	0.194
9					0.918	0.823	0.731	0.625	0.382	0.306	0.262	0.230
10					0.974	0.882	0.799	0.717	0.618	0.388	0.315	0.272
11						0.933	0.854	0.780	0.704	0.612	0.393	0.323
12						0.979	0.901	0.831	0.764	0.694	0.607	0.398
13							0.943	0.875	0.812	0.750	0.685	0.602
14							0.982	0.915	0.854	0.796	0.738	0.677
15								0.951	0.891	0.835	0.782	0.728
16								0.984	0.925	0.871	0.820	0.770
17									0.956	0.903	0.854	0.806
18									0.986	0.933	0.884	0.839
19										0.961	0.913	0.868
20										0.987	0.940	0.895
21											0.965	0.921
22											0.989	0.945
23												0.968
24												0.989

Traverse Points	
No.	Distance from Wall
1	5
2	7 3/16
3	9 11/16
4	12 8/16
5	16
6	21 1/16
7	34 15/16
8	40
9	43 8/16
10	46 5/16
11	48 13/16
12	51
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/30/2006
Unit Number:	FAB 11S Main Stack	**Stack Diameter (in.):**	48.00
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	
Run No.:	1	**Operators:**	
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.87
Pitot Tube ID:	P502		**Pre Test**
Pitot Tube Coefficient: 0.84			**Pass** / **Fail**
Estimated Stack CO_2%:0.25 O_2%:20.5 H_2O%:1.6		**Pitot Leak Check**	Y / ___
Platform Elevation (feet):	50 Ft		**Post Test**
			Pass / **Fail**
Comments:		**Pitot Leak Check**	Y / ___
		Start:	9:35
		End:	9:50

South East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.47	134
2	0.56	136
3	0.59	137
4	0.58	137
5	0.59	138
6	0.58	138
7	0.53	139
8	0.56	139
9	0.55	139
10	0.56	138
11	0.59	136
12	0.58	134

Notrth East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.64	135
2	0.67	137
3	0.68	137
4	0.64	138
5	0.61	138
6	0.59	138
7	0.56	138
8	0.58	139
9	0.59	138
10	0.58	138
11	0.59	136
12	0.47	130
Total Average:	**sqrt dp = 0.76145**	**137.0**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	12/6/2006
Unit Number:	FAB 11S Main Stack	**Stack Diameter (in.):**	48.00
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	-0.05
Run No.:	2	**Operators:**	WM
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.91
Pitot Tube ID:	P502		
Pitot Tube Coefficient:	**0.84**		
Estimated Stack CO_2%:	**0.25** **O_2%:** **20.5** **H_2O%:** **1.6**		
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test	
	Pass	**Fail**
Pitot Leak Check	Y	___
	Post Test	
	Pass	**Fail**
Pitot Leak Check	Y	___
Start:	15:25	
End:	15:45	

South East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.66	100
2	0.69	106
3	0.78	118
4	0.75	125
5	0.75	126
6	0.69	129
7	0.70	137
8	0.64	140
9	0.66	138
10	0.66	140
11	0.62	136
12	0.60	137

Notrth East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.49	118
2	0.61	126
3	0.64	125
4	0.60	125
5	0.67	128
6	0.66	137
7	0.60	139
8	0.63	140
9	0.62	133
10	0.63	137
11	0.59	141
12	0.55	142
Total Average:	**sqrt dp = 0.80242**	**130.1**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	12/12/2006
Unit Number:	FAB 11S Main Stack	**Stack Diameter (in.):**	48.00
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	0.08
Run No.:	3	**Operators:**	TS/WM
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.96
Pitot Tube ID:	P502		
Pitot Tube Coefficient:	**0.84**		
Estimated Stack CO_2%:	0.25 **O_2%:** 20.5 **H_2O%:** 1.6		
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test Pass	Pre Test Fail
Pitot Leak Check	Y	___

	Post Test Pass	Post Test Fail
Pitot Leak Check	Y	___

Start: 16:30
End: 16:38

South East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.63	98.8
2	0.75	108.4
3	0.77	113
4	0.74	121.8
5	0.71	126.2
6	0.64	131.2
7	0.66	133.8
8	0.66	136
9	0.66	136.8
10	0.65	137.2
11	0.61	138
12	0.52	138

Notrth East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.43	120.8
2	0.59	125.6
3	0.60	128.8
4	0.62	131.2
5	0.60	134.4
6	0.60	136.4
7	0.59	137
8	0.60	138
9	0.63	138.8
10	0.64	138.6
11	0.62	138.6
12	0.56	139.2
Total Average:	**sqrt dp = 0.79137**	**130.3**

APPENDIX B-4
FID and Flow Data
FAB 11W; 9s.8.1a

FAB 11W Daily Summary
Q4 2006 VOC Monitoring
Intel Rio Rancho, New Mexico

Date*	Daily Outlet FID VOC Conc. (ppm as C_3H_8)	Daily Outlet FID Emissions (lbs/hr)	Outlet FID 8-Hour VOC Conc. (ppm as C_3H_8)	Outlet FID 8-Hour Emissions (lbs/hr)	FTIR 8-Hour** VOC Conc. (converted) (ppm as C_3H_8)	FTIR 8-Hour VOC Sum (lbs/hr)
11/06/2006	0.67	0.10				
11/07/2006	0.51	0.07				
11/08/2006	0.44	0.06				
11/09/2006	0.71	0.10	0.60	0.09	0.00	0.00
11/10/2006	0.76	0.11				
11/11/2006	0.57	0.08				
11/12/2006	0.68	0.10				
11/13/2006	0.52	0.07				
11/14/2006	0.67	0.10				
11/15/2006	0.70	0.10				
11/16/2006	0.68	0.10				
11/17/2006	0.77	0.11	0.70	0.09	0.00	0.00
11/18/2006	0.96	0.14				
11/19/2006	0.84	0.12				
11/20/2006	0.63	0.09				
Average* **	0.68	0.10	0.65	0.09	0.00	0.00

**The sum of FTIR VOC measured emissions divided by the FID 8-hour measured emissions and multiplied by the FID measured concentration

***FID Averages for the entire monitoring period are based on individual hourly average values for the period, not the daily block average values reported in the columns for each reporting day. Hourly average values for the entire period are presented in Appendix A

CEM (FID) Monitoring Period
Q4 2006
FAB 11W Main Outlet

Monitoring Period

Start	11/06/2006 18:00
End	11/21/2006 08:02
Hours	350

CEM Down Time

Start	End	Elapsed	Reason Code	Comment
11/6/2006 8:32	11/06/2006 08:39	0:07	C	
11/06/2006 17:20	11/06/2006 17:35	0:15	C	
11/07/2006 06:54	11/07/2006 07:03	0:09	C	
11/07/2006 16:48	11/07/2006 17:00	0:12	C	
11/08/2006 09:16	11/08/2006 09:24	0:08	C	
11/08/2006 17:13	11/08/2006 17:21	0:08	C	
11/09/2006 10:25	11/09/2006 10:53	0:28	F	Bias cal line repair
11/09/2006 18:17	11/09/2006 18:27	0:10	C	
11/10/2006 08:21	11/10/2006 08:29	0:08	C	
11/10/2006 18:01	11/10/2006 18:08	0:07	C	
11/11/2006 9:34	11/11/2006 09:42	0:08	C	
11/11/2006 18:15	11/11/2006 18:23	0:08	C	
11/12/2006 11:42	11/12/2006 11:49	0:07	C	
11/13/2006 07:37	11/13/2006 07:45	0:08	C	
11/13/2006 15:54	11/13/2006 16:00	0:06	C	
11/14/2006 10:06	11/14/2006 10:17	0:11	C	
11/14/2006 21:52	11/14/2006 21:59	0:07	C	
11/15/2006 10:07	11/15/2006 10:12	0:05	C	
11/16/2006 08:26	11/16/2006 08:35	0:09	C	
11/16/2006 17:58	11/16/2006 18:05	0:07	C	
11/17/2006 07:02	11/17/2006 07:07	0:05	C	
11/17/2006 17:38	11/17/2006 17:44	0:06	C	
11/18/2006 09:45	11/18/2006 09:52	0:07	C	
11/18/2006 19:47	11/18/2006 19:53	0:06	C	
11/19/2006 09:36	11/19/2006 09:42	0:06	C	
11/19/2006 18:24	11/19/2006 18:29	0:05	C	
11/20/2006 07:58	11/20/2006 08:10	0:12	C	
11/20/2006 17:18	11/20/2006 17:23	0:05	C	
11/21/2006 08:03	11/21/2006 08:07	0:04	C	

Total	4:04

Percent Data Availability

Minute Basis	**102.97%**
15 Minute Basis (PS-8 Std)	**104.10%**
1 Hour Basis (PS-8 Std)	**104.18%**

Explanation of Reason Codes

A	Process Down
B	Scheduled Maintenance
C	CEM in Calibration mode
D	DAS program Maintenance
E	Error in DAS record information
F	Failure of Minor CEM System Component
G	Failure of Major CEM System Component

Q4 2006 VOC Monitoring
FAB 11W FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
1	11/06/2006 18:59	0.69	57	11/09/2006 02:59	0.36	113	11/11/2006 10:59	0.78
2	11/06/2006 19:59	0.69	58	11/09/2006 03:59	0.35	114	11/11/2006 11:59	0.73
3	11/06/2006 20:59	0.71	59	11/09/2006 04:59	0.37	115	11/11/2006 12:59	0.69
4	11/06/2006 21:59	0.71	60	11/09/2006 05:59	0.39	116	11/11/2006 13:59	0.65
5	11/06/2006 22:59	0.69	61	11/09/2006 06:59	0.40	117	11/11/2006 14:59	0.62
6	11/06/2006 23:59	0.71	62	11/09/2006 07:59	0.46	118	11/11/2006 15:59	0.61
7	11/07/2006 00:59	0.70	63	11/09/2006 08:59	0.44	119	11/11/2006 16:59	0.57
8	11/07/2006 01:59	0.69	64	11/09/2006 09:59	0.45	120	11/11/2006 17:59	0.58
9	11/07/2006 02:59	0.69	65	11/09/2006 10:59		121	11/11/2006 18:59	0.61
10	11/07/2006 03:59	0.69	66	11/09/2006 11:59	0.66	122	11/11/2006 19:59	0.60
11	11/07/2006 04:59	0.68	67	11/09/2006 12:59	0.63	123	11/11/2006 20:59	0.59
12	11/07/2006 05:59	0.69	68	11/09/2006 13:59	0.58	124	11/11/2006 21:59	0.60
13	11/07/2006 06:59	0.69	69	11/09/2006 14:59	0.54	125	11/11/2006 22:59	0.60
14	11/07/2006 07:59	0.70	70	11/09/2006 15:59	0.56	126	11/11/2006 23:59	0.59
15	11/07/2006 08:59	0.74	71	11/09/2006 16:59	0.55	127	11/12/2006 00:59	0.55
16	11/07/2006 09:59	0.73	72	11/09/2006 17:59	0.56	128	11/12/2006 01:59	0.53
17	11/07/2006 10:59	0.73	73	11/09/2006 18:59	0.72	129	11/12/2006 02:59	0.54
18	11/07/2006 11:59	0.70	74	11/09/2006 19:59	0.63	130	11/12/2006 03:59	0.52
19	11/07/2006 12:59	0.63	75	11/09/2006 20:59	0.64	131	11/12/2006 04:59	0.53
20	11/07/2006 13:59	0.58	76	11/09/2006 21:59	0.64	132	11/12/2006 05:59	0.55
21	11/07/2006 14:59	0.57	77	11/09/2006 22:59	0.63	133	11/12/2006 06:59	0.55
22	11/07/2006 15:59	0.56	78	11/09/2006 23:59	0.65	134	11/12/2006 07:59	0.57
23	11/07/2006 16:59	0.58	79	11/10/2006 00:59	0.67	135	11/12/2006 08:59	0.59
24	11/07/2006 17:59	0.55	80	11/10/2006 01:59	0.69	136	11/12/2006 09:59	0.58
25	11/07/2006 18:59	0.55	81	11/10/2006 02:59	0.69	137	11/12/2006 10:59	0.56
26	11/07/2006 19:59	0.56	82	11/10/2006 03:59	0.70	138	11/12/2006 11:59	0.54
27	11/07/2006 20:59	0.60	83	11/10/2006 04:59	0.71	139	11/12/2006 12:59	0.54
28	11/07/2006 21:59	0.59	84	11/10/2006 05:59	0.72	140	11/12/2006 13:59	0.55
29	11/07/2006 22:59	0.61	85	11/10/2006 06:59	0.76	141	11/12/2006 14:59	0.56
30	11/07/2006 23:59	0.61	86	11/10/2006 07:59	0.76	142	11/12/2006 15:59	0.58
31	11/08/2006 00:59	0.59	87	11/10/2006 08:59	0.76	143	11/12/2006 16:59	0.60
32	11/08/2006 01:59	0.57	88	11/10/2006 09:59	0.74	144	11/12/2006 17:59	0.65
33	11/08/2006 02:59	0.59	89	11/10/2006 10:59	0.73	145	11/12/2006 18:59	0.69
34	11/08/2006 03:59	0.55	90	11/10/2006 11:59	0.73	146	11/12/2006 19:59	0.70
35	11/08/2006 04:59	0.55	91	11/10/2006 12:59	0.72	147	11/12/2006 20:59	0.71
36	11/08/2006 05:59	0.57	92	11/10/2006 13:59	0.72	148	11/12/2006 21:59	0.70
37	11/08/2006 06:59	0.58	93	11/10/2006 14:59	0.71	149	11/12/2006 22:59	0.70
38	11/08/2006 07:59	0.67	94	11/10/2006 15:59	0.72	150	11/12/2006 23:59	0.71
39	11/08/2006 08:59	0.58	95	11/10/2006 16:59	0.73	151	11/13/2006 00:59	0.72
40	11/08/2006 09:59	0.50	96	11/10/2006 17:59	0.74	152	11/13/2006 01:59	0.73
41	11/08/2006 10:59	0.45	97	11/10/2006 18:59	0.76	153	11/13/2006 02:59	0.73
42	11/08/2006 11:59	0.41	98	11/10/2006 19:59	0.76	154	11/13/2006 03:59	0.74
43	11/08/2006 12:59	0.39	99	11/10/2006 20:59	0.79	155	11/13/2006 04:59	0.73
44	11/08/2006 13:59	0.40	100	11/10/2006 21:59	0.80	156	11/13/2006 05:59	0.73
45	11/08/2006 14:59	0.38	101	11/10/2006 22:59	0.80	157	11/13/2006 06:59	0.72
46	11/08/2006 15:59	0.34	102	11/10/2006 23:59	0.81	158	11/13/2006 07:59	0.73
47	11/08/2006 16:59	0.32	103	11/11/2006 00:59	0.78	159	11/13/2006 08:59	0.73
48	11/08/2006 17:59	0.32	104	11/11/2006 01:59	0.80	160	11/13/2006 09:59	0.72
49	11/08/2006 18:59	0.36	105	11/11/2006 02:59	0.82	161	11/13/2006 10:59	0.69
50	11/08/2006 19:59	0.35	106	11/11/2006 03:59	0.82	162	11/13/2006 11:59	0.65
51	11/08/2006 20:59	0.37	107	11/11/2006 04:59	0.82	163	11/13/2006 12:59	0.62
52	11/08/2006 21:59	0.36	108	11/11/2006 05:59	0.81	164	11/13/2006 13:59	0.61
53	11/08/2006 22:59	0.34	109	11/11/2006 06:59	0.85	165	11/13/2006 14:59	0.58
54	11/08/2006 23:59	0.35	110	11/11/2006 07:59	0.88	166	11/13/2006 15:59	0.56
55	11/09/2006 00:59	0.36	111	11/11/2006 08:59	0.87	167	11/13/2006 16:59	0.55
56	11/09/2006 01:59	0.36	112	11/11/2006 09:59	0.84	168	11/13/2006 17:59	0.58

Q4 2006 VOC Monitoring
FAB 11W FID Hourly Results
Intel Rio Rancho, New Mexico

Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)	Running Hour	Day & Time	Outlet Hourly THC Conc. (ppm as C_3H_8)
169	11/13/2006 18:59	0.64	225	11/16/2006 02:58	0.78	281	11/18/2006 10:58	0.81
170	11/13/2006 19:59	0.64	226	11/16/2006 03:58	0.81	282	11/18/2006 11:58	0.78
171	11/13/2006 20:59	0.65	227	11/16/2006 04:58	0.78	283	11/18/2006 12:58	0.75
172	11/13/2006 21:59	0.63	228	11/16/2006 05:58	0.78	284	11/18/2006 13:58	0.74
173	11/13/2006 22:59	0.61	229	11/16/2006 06:58	0.80	285	11/18/2006 14:58	0.74
174	11/13/2006 23:59	0.60	230	11/16/2006 07:58	0.79	286	11/18/2006 15:58	0.76
175	11/14/2006 00:59	0.58	231	11/16/2006 08:58	0.80	287	11/18/2006 16:58	0.76
176	11/14/2006 01:59	0.55	232	11/16/2006 09:58	0.73	288	11/18/2006 17:58	0.78
177	11/14/2006 02:58	0.54	233	11/16/2006 10:58	0.69	289	11/18/2006 18:58	0.77
178	11/14/2006 03:58	0.53	234	11/16/2006 11:58	0.63	290	11/18/2006 19:58	0.78
179	11/14/2006 04:58	0.52	235	11/16/2006 12:58	0.58	291	11/18/2006 20:58	0.83
180	11/14/2006 05:58	0.52	236	11/16/2006 13:58	0.56	292	11/18/2006 21:58	0.89
181	11/14/2006 06:58	0.53	237	11/16/2006 14:58	0.55	293	11/18/2006 22:58	0.92
182	11/14/2006 07:58	0.49	238	11/16/2006 15:58	0.53	294	11/18/2006 23:58	0.95
183	11/14/2006 08:58	0.49	239	11/16/2006 16:58	0.52	295	11/19/2006 00:58	0.95
184	11/14/2006 09:58	0.46	240	11/16/2006 17:58	0.54	296	11/19/2006 01:58	0.94
185	11/14/2006 10:58	0.47	241	11/16/2006 18:58	0.57	297	11/19/2006 02:58	0.97
186	11/14/2006 11:58	0.46	242	11/16/2006 19:58	0.58	298	11/19/2006 03:58	0.98
187	11/14/2006 12:58	0.40	243	11/16/2006 20:58	0.61	299	11/19/2006 04:58	0.98
188	11/14/2006 13:58	0.41	244	11/16/2006 21:58	0.63	300	11/19/2006 05:58	0.98
189	11/14/2006 14:58	0.41	245	11/16/2006 22:58	0.63	301	11/19/2006 06:58	0.99
190	11/14/2006 15:58	0.43	246	11/16/2006 23:58	0.63	302	11/19/2006 07:58	1.01
191	11/14/2006 16:58	0.46	247	11/17/2006 00:58	0.64	303	11/19/2006 08:58	1.09
192	11/14/2006 17:58	0.49	248	11/17/2006 01:58	0.65	304	11/19/2006 09:58	1.05
193	11/14/2006 18:58	0.49	249	11/17/2006 02:58	0.68	305	11/19/2006 10:58	1.03
194	11/14/2006 19:58	0.52	250	11/17/2006 03:58	0.67	306	11/19/2006 11:58	1.01
195	11/14/2006 20:58	0.56	251	11/17/2006 04:58	0.68	307	11/19/2006 12:58	1.00
196	11/14/2006 21:58	0.62	252	11/17/2006 05:58	0.71	308	11/19/2006 13:58	0.99
197	11/14/2006 22:58	0.65	253	11/17/2006 06:58	0.73	309	11/19/2006 14:58	0.98
198	11/14/2006 23:58	0.64	254	11/17/2006 07:58	0.77	310	11/19/2006 15:58	0.97
199	11/15/2006 00:58	0.61	255	11/17/2006 08:58	0.77	311	11/19/2006 16:58	0.95
200	11/15/2006 01:58	0.65	256	11/17/2006 09:58	0.72	312	11/19/2006 17:58	0.95
201	11/15/2006 02:58	0.65	257	11/17/2006 10:58	0.72	313	11/19/2006 18:58	0.98
202	11/15/2006 03:58	0.68	258	11/17/2006 11:58	0.72	314	11/19/2006 19:58	0.98
203	11/15/2006 04:58	0.70	259	11/17/2006 12:58	0.70	315	11/19/2006 20:58	0.98
204	11/15/2006 05:58	0.71	260	11/17/2006 13:58	0.67	316	11/19/2006 21:58	0.97
205	11/15/2006 06:58	0.73	261	11/17/2006 14:58	0.67	317	11/19/2006 22:58	0.97
206	11/15/2006 07:58	0.75	262	11/17/2006 15:58	0.69	318	11/19/2006 23:58	0.97
207	11/15/2006 08:58	0.78	263	11/17/2006 16:58	0.70	319	11/20/2006 00:58	0.98
208	11/15/2006 09:58	0.79	264	11/17/2006 17:58	0.72	320	11/20/2006 01:58	0.97
209	11/15/2006 10:58	0.78	265	11/17/2006 18:58	0.72	321	11/20/2006 02:58	0.95
210	11/15/2006 11:58	0.74	266	11/17/2006 19:58	0.73	322	11/20/2006 03:58	0.97
211	11/15/2006 12:58	0.72	267	11/17/2006 20:58	0.73	323	11/20/2006 04:58	0.97
212	11/15/2006 13:58	0.71	268	11/17/2006 21:58	0.76	324	11/20/2006 05:58	0.99
213	11/15/2006 14:58	0.69	269	11/17/2006 22:58	0.77	325	11/20/2006 06:58	1.00
214	11/15/2006 15:58	0.67	270	11/17/2006 23:58	0.76	326	11/20/2006 07:58	1.01
215	11/15/2006 16:58	0.67	271	11/18/2006 00:58	0.75	327	11/20/2006 08:58	0.71
216	11/15/2006 17:58	0.69	272	11/18/2006 01:58	0.75	328	11/20/2006 09:58	0.69
217	11/15/2006 18:58	0.71	273	11/18/2006 02:58	0.77	329	11/20/2006 10:58	0.69
218	11/15/2006 19:58	0.70	274	11/18/2006 03:58	0.76	330	11/20/2006 11:58	0.67
219	11/15/2006 20:58	0.71	275	11/18/2006 04:58	0.77	331	11/20/2006 12:58	0.65
220	11/15/2006 21:58	0.70	276	11/18/2006 05:58	0.80	332	11/20/2006 13:58	0.65
221	11/15/2006 22:58	0.71	277	11/18/2006 06:58	0.80	333	11/20/2006 14:58	0.64
222	11/15/2006 23:58	0.76	278	11/18/2006 07:58	0.83	334	11/20/2006 15:58	0.62
223	11/16/2006 00:58	0.82	279	11/18/2006 08:58	0.83	335	11/20/2006 16:58	0.63
224	11/16/2006 01:58	0.78	280	11/18/2006 09:58	0.82	336	11/20/2006 17:58	0.62

FID Monitoring Calibration Data
Intel Rio Rancho, New Mexico
Q4 2006
FAB 11W Main Outlet

Drift Checks

Zero							Mid Cal Gas						
Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment	Day & Time	Recorded	Actual	Adjust	ABS % Drift	ABS % Error	Comment
11/03/2006 13:39	-0.11	0.00	No	#VALUE!	0.11		11/03/2006 13:36	50.77	50.70	No	#VALUE!	0.07	
11/03/2006 20:04	-0.03	0.00	No	0.08	0.03		11/3/2006 20:01	52.52	50.70		1.75	1.82	
		0.00		0.00	0.00		11/03/2006 20:07	50.67	50.70	Yes	#N/A	0.03	
11/04/2006 10:11	-0.15	0.00	No	0.15	0.15		11/04/2006 10:08	51.07	50.70	No	0.40	0.37	
11/04/2006 18:25	-0.23	0.00	No	0.23	0.23		11/04/2006 18:21	50.17	50.70	No	0.50	0.53	
11/05/2006 10:11	-0.23	0.00	No	0.00	0.23		11/05/2006 10:08	51.15	50.70	No	0.98	0.45	
11/05/2006 17:06	-0.33	0.00	No	0.10	0.33		11/05/2006 17:04	49.71	50.70	No	0.46	0.99	
11/06/2006 08:37	-0.25	0.00	No	0.08	0.25		11/6/2006 8:34	50.71	50.70	No	1.00	0.01	
11/06/2006 17:27	0.01	0.00	No	0.34	0.01		11/06/2006 17:23	47.81	50.70	No	1.90	2.89	
		0.00		0.00	0.00		11/06/2006 17:32	50.53	50.70	No	0.82	0.17	
11/07/2006 07:01	0.04	0.00	No	0.04	0.04		11/07/2006 06:56	51.08	50.70	No	0.55	0.38	
11/07/2006 16:57	-0.03	0.00	No	0.03	0.03		11/07/2006 16:52	50.10	50.70	No	0.43	0.60	
11/08/2006 09:21	0.04	0.00	No	0.09	0.04		11/08/2006 09:18	51.63	50.70	No	1.53	0.93	
11/08/2006 17:18	-0.15	0.00	No	0.10	0.15		11/08/2006 17:15	51.58	50.70	No	1.48	0.88	
11/09/2006 10:44	-0.38	0.00	No	0.23	0.38		11/09/2006 10:42	65.72	50.70	No	14.14	15.02	
11/09/2006 10:46	-0.03	0.00	Yes	#N/A	0.03		11/09/2006 10:50	50.79	50.70	Yes	#N/A	0.09	
11/09/2006 18:24	-0.04	0.00	No	0.24	0.04		11/09/2006 18:20	50.76	50.70	No	14.11	0.06	
11/10/2006 08:27	0.07	0.00	No	0.11	0.07		11/10/2006 08:23	50.95	50.70	No	0.19	0.25	
11/10/2006 18:07	0.10	0.00	No	0.14	0.10		11/10/2006 18:04	50.65	50.70	No	0.11	0.05	
11/11/2006 09:40	0.16	0.00	No	0.06	0.16		11/11/2006 09:37	51.45	50.70	No	0.80	0.75	
11/11/2006 18:21	-0.08	0.00	No	0.18	0.08		11/11/2006 18:18	50.36	50.70	No	0.29	0.34	
11/12/2006 11:47	-0.11	0.00	No	0.03	0.11		11/12/2006 11:44	50.44	50.70	No	0.08	0.26	
11/13/2006 07:42	0.03	0.00	No	0.14	0.03		11/13/2006 07:39	50.99	50.70	No	0.55	0.29	
11/13/2006 15:58	-0.08	0.00	No	0.02	0.08		11/13/2006 15:56	50.36	50.70	No	0.08	0.34	
11/14/2006 10:09	-0.23	0.00	No	0.15	0.23		11/14/2006 10:07	50.26	50.70	No	0.10	0.44	
11/14/2006 10:13	-0.23	0.00	No	0.15	0.23		11/14/2006 10:15	50.40	50.70	No	0.04	0.30	
11/14/2006 21:57	0.02	0.00	No	0.10	0.02		11/14/2006 21:54	50.89	50.70	No	0.53	0.19	
11/15/2006 10:10	0.18	0.00	No	0.16	0.18		11/15/2006 10:08	51.30	50.70	No	0.41	0.60	
11/16/2006 08:33	0.06	0.00	No	0.13	0.06		11/16/2006 08:29	51.01	50.70	No	0.29	0.31	
11/16/2006 18:02	-0.08	0.00	No	0.26	0.08		11/16/2006 18:00	50.36	50.70	No	0.94	0.34	
11/17/2006 07:05	0.05	0.00	No	0.13	0.05		11/17/2006 07:03	50.88	50.70	No	0.52	0.18	
11/17/2006 17:42	0.12	0.00	No	0.20	0.12		11/17/2006 17:40	50.80	50.70	No	0.44	0.10	
11/18/2006 09:50	0.17	0.00	No	0.05	0.17		11/18/2006 09:47	50.98	50.70	No	0.18	0.28	
11/18/2006 19:51	0.17	0.00	No	0.05	0.17		11/18/2006 19:48	50.63	50.70	No	0.17	0.07	
11/19/2006 09:39	0.33	0.00	No	0.16	0.33		11/19/2006 09:37	51.11	50.70	No	0.48	0.41	
11/19/2006 18:27	0.28	0.00	No	0.10	0.28		11/19/2006 18:25	50.89	50.70	No	0.26	0.19	
11/20/2006 08:02	0.32	0.00	No	0.05	0.32		11/20/2006 08:00	51.21	50.70	No	0.32	0.51	
11/20/2006 08:04	0.00	0.00	Yes	#N/A	0.00		11/20/2006 08:06	50.71	50.70	Yes	#N/A	0.01	
11/20/2006 17:21	-0.01	0.00	No	0.04	0.01		11/20/2006 17:19	50.43	50.70	No	0.04	0.27	
11/21/2006 08:06	-0.02	0.00	No	0.01	0.02		11/21/2006 08:04	50.47	50.70	No	0.04	0.23	
		0.00		0.00	0.00				50.70		0.00	0.00	

Linearity Check

Date & Time		Gas	Cyl. No.	Actual	Recorded	% Error
11/2/2006 16:25		Zero	AAL 18948	0.00	28.32	28.32%
11/2/2006 16:38		Low	ALM 02178	30.1	51.85	21.75%
11/2/2006 16:34		Mid	ALM 01955	51.3	62.4	11.10%
11/2/2006 16:30		High	ALM 03904	85.4	37.37	-48.03%

FID QUALITY ASSURANCE CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM
TRC Project Number: 31397-3200-00000
Sample Location: Fab 11W RCTO Outlet

			Instrument		Instrument							Combustion Air Cylinder					Hydrogen Generator					Sampling Transport System		Data Acquisition			
Date	Time	Technician	Instrument Serial No.	Range	Sample Press. (psig)	Air Press. (psig)	Fuel Press. (psig)	Coil. Volts	+ VDC	Burner Temp (°C)	Oven Temp (°C)	Cylinder Number	Press. (psig)	Change Cylinder	Cylinder Number	Press. (psig)	Ser#	Press. (psig)	Gain Set.	H_2O Level	Dryer Tube	Sample Line Temp (°F)	Operational (Y/N)	Temp (°C)	Batt Volts	Data Recovered (Y/N)	File Name
11/2/06	16:39	WM	4N11010	0-100	2.2	9.5	5.6	-248	15.7	347	161	AAL5231	1350	NA	NA	NA	H2-901374	23.0	2.40	50%	Good	248	Y	25.94	13.09	Y	11S_10.dat
11/3/06	13:40	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	349	158	AAL5231	1150	NA	NA	NA	H2-901374	23.0	2.40	50%	Good	248	Y	28.44	13.25	Y	11S_10.dat
11/3/06	20:21	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	349	159	AAL5231	1050	NA	NA	NA	H2-901374	23.0	2.40	50%	Good	248	Y	29.84	13.20	Y	11S_10.dat
11/4/06	9:45	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	350	158	AAL5231	950	NA	NA	NA	H2-901374	23.0	2.40	50%	Good	248	Y	29.28	13.23	Y	11S_10.dat
11/4/06	18:25	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	349	158	AAL5231	900	NA	NA	NA	H2-901374	23.0	2.40	50%	Good	248	Y	28.45	13.53	Y	11S_10.dat
11/5/06	10:05	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	350	158	AAL5231	750	NA	NA	NA	H2-901374	23.0	2.40	50%	Good	248	Y	28.13	13.28	Y	11S_10.dat
11/5/06	17:00	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	346	158	AAL5231	700	NA	NA	NA	H2-901374	23.0	2.40	50%	Good	247	Y	28.59	13.26	Y	11S_10.dat
11/6/06	8:38	WM	4N11010	0-100	2.2	9.5	5.6	-248	15.7	347	158	AAL5231	550	NA	NA	NA	H2-901374	23.0	2.40	40%	Good	247	Y	28.61	13.27	Y	11S_10.dat
11/6/06	17:34	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	347	158	AAL5231	500	NA	NA	NA	H2-901374	23.0	2.40	40%	Good	247	Y	28.44	13.27	Y	11S_10.dat
11/7/06	6:51	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	346	158	AAL5231	350	NA	NA	NA	H2-901374	23.0	2.40	35%	Good	248	Y	27.72	13.31	Y	11S_10.dat
11/7/06	16:43	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	346	158	AAL5231	300	Yes	ALM008270	1800	H2-901374	23.0	2.40	35%	Good	247	Y	28.34	13.29	Y	11S_10.dat
11/8/06	9:13	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	346	158	ALM008270	1700	NA	NA	NA	H2-901374	23.0	2.40	30%	Good	248	Y	28.15	13.30	Y	11S_10.dat
11/8/06	17:10	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	345	158	ALM008270	1650	NA	NA	NA	H2-901374	23.0	2.40	30%	Good	248	Y	28.45	13.31	Y	11S_10.dat
11/9/06	10:51	WM	4N11010	0-100	2.2	9.5	5.6	-249	15.7	345	158	ALM008270	1450	NA	NA	NA	H2-901374	23.0	2.40	25%	Good	248	Y	29.30	13.28	Y	11S_10.dat
11/9/06	18:30	JG	4N11010	0-100	2.2	9.5	5.6	-249	15.7	345	158	ALM008270	1400	NA	NA	NA	H2-901374	23.0	2.40	25%	Good	248	Y	29.63	13.27	Y	11S_10.dat
11/10/06	8:30	JG	4N11010	0-100	2.2	9.5	5.6	-249	15.7	347	157	ALM008270	1230	NA	NA	NA	H2-901375	23.0	2.40	25%	Good	247	Y	28.51	13.29	Y	11S_10.dat
11/10/06	18:05	JG	4N11010	0-100	2.2	9.5	5.6	-249	15.7	347	159	ALM008270	1180	NA	NA	NA	H2-901376	23.0	2.40	23%	Good	248	Y	28.55	13.29	Y	11S_10.dat
11/11/06	9:34	JG	4N11011	0-100	2.2	9.5	5.6	-249	15.7	350	155	ALM008271	1000	NA	NA	NA	H2-901377	23.0	2.40	23%	Good	249	Y	22.40	13.50	Y	11S_10.dat
11/11/06	18:16	JG	4N11011	0-100	2.2	9.4	5.6	-249	15.7	345	159	ALM008271	950	NA	NA	NA	H2-901377	23.0	2.40	23%	Good	249	Y	28.60	13.30	Y	11S_10.dat
11/12/06	11:48	JG	4N11011	0-100	2.2	9.4	5.6	-249	15.7	345	159	ALM008271	800	NA	NA	NA	H2-901378	23.0	2.40	23%	Good	250	Y	27.80	13.30	Y	11S_10.dat
11/13/06	7:35	WM	4N11011	0-100	2.2	9.5	5.6	-249	15.7	349	156	ALM008271	600	NA	NA	NA	H2-901378	23.0	2.40	15%	Good	247	Y	22.84	13.44	Y	11S_10.dat
11/13/06	15:53	WM/JG	4N11011	0-100	2.2	9.4	5.6	-248	15.7	346	159	ALM008271	550	NA	NA	NA	H2-901378	23.0	2.40	10%	Good	247	Y	27.81	13.32	Y	11S_10.dat
11/14/06	10:10	WM	4N11011	0-100	2.2	9.4	5.6	-249	15.7	346	158	ALM008271	375	Yes	ALM017631	1950	H2-901378	23.0	2.40	10%	Good	247	Y	25.64	13.39	Y	11S_10.dat
11/14/06	21:55	WM	4N11011	0-100	2.2	9.4	5.6	-248	15.7	347	157	ALM017631	1850	NA	NA	NA	H2-901378	23.0	2.40	10%	Good	247	Y	28.01	13.30	Y	11S_10.dat
11/15/06	10:10	WM	4N11011	0-100	2.2	9.5	5.6	-248	15.7	346	155	ALM017631	1700	NA	NA	NA	H2-901378	23.0	2.40	10%	Good	247	Y	23.29	13.44	Y	11S_10.dat
11/16/06	10:10	JG	4N11011	0-100	2.2	9.5	5.6	-248	15.7	345	155	ALM017631	1525	NA	NA	NA	H2-901378	23.0	2.40	10%	Good	247	Y	23.30	13.44	Y	11S_10.dat
11/16/06	17:59	WM	4N11011	0-100	2.2	9.4	5.6	-248	15.7	348	159	ALM017631	1500	NA	NA	NA	H2-901378	23.0	2.40	10%	Good	247	Y	28.20	13.30	Y	11S_10.dat
11/17/06	7:00	WM	4N11011	0-100	2.2	9.4	5.6	-248	15.7	349	156	ALM017631	1375	NA	NA	NA	H2-901378	23.0	2.40	5%	Good	247	Y	26.38	13.35	Y	11S_10.dat
11/17/06	17:42	WM	4N11011	0-100	2.2	9.4	5.6	-248	15.7	345	158	ALM017631	1325	NA	NA	NA	H2-901378	23.0	2.40	90%	Good	248	Y	28.72	13.24	Y	11S_10.dat
11/18/06	9:44	WM	4N11011	0-100	2.2	9.4	5.6	-248	15.7	346	156	ALM017631	1150	NA	NA	NA	H2-901378	23.0	2.40	90%	Good	247	Y	27.57	13.32	Y	11S_10.dat
11/18/06	19:50	WM	4N11011	0-100	2.2	9.4	5.6	-248	15.7	346	159	ALM017631	1100	NA	NA	NA	H2-901378	23.0	2.40	90%	Good	247	Y	28.71	12.29	Y	11S_10.dat

FID CALIBRATION CHECKS

Client and Site Location: Intel Corporation - Rio Rancho, NM
TRC Project Number: 31397-3200-00000
Sample Location: Fab 11W RCTO Outlet

Daily Visual Checks

						Unadjusted						Adjusted						
		Inst.	Zero	Mid		Values				Setpoint		Values				Setpoint		
Technician	Date	Ser. #	Cyl. #	Cyl. #	Conc.	Zero	Time	Mid	Time	Zero	Gain	Zero	Time	Mid	Time	Zero	Gain	Comments
WM	11/2/06	4N11010	ALM051729	ALM050156	50.7	-	-	-	-	-	-	0.0	16:15	51.5	16:37	6.47	7.30	Initial Cal
WM	11/3/06	4N11010	ALM051729	ALM050156	50.7	-0.10	13:39	50.8	13:36	6.47	7.30	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/3/06	4N11010	ALM051729	ALM050156	50.7	-0.03	20:04	52.5	20:01	6.47	7.30	N/A	N/A	50.7	20:08	6.47	7.14	
WM	11/4/06	4N11010	ALM051729	ALM050156	50.7	-0.14	10:11	51.1	10:08	6.47	7.14	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/4/06	4N11010	ALM051729	ALM050156	50.7	-0.17	18:24	50.2	18:21	6.47	7.14	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/5/06	4N11010	ALM051729	ALM050156	50.7	-0.23	10:11	51.0	10:08	6.47	7.14	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/5/06	4N11010	ALM051729	ALM050156	50.7	-0.30	17:06	49.7	17:04	6.47	7.14	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/6/06	4N11010	ALM051729	ALM050156	50.7	-0.26	8:37	50.7	8:34	6.47	7.14	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/6/06	4N11010	ALM051729	ALM050156	50.7	-0.36	17:26	47.9	17:22	6.47	7.14	0.0	17:28	50.6	17:32	6.60	7.73	
WM	11/7/06	4N11010	ALM051729	ALM050156	50.7	0.05	7:00	50.9	6:57	6.60	7.73	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/7/06	4N11010	ALM051729	ALM050156	50.7	-0.03	16:49	50.1	16:52	6.60	7.73	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/7/06	4N11010	ALM051729	ALM050156	50.7	-0.03	16:57	50.1	16:55	6.60	7.73	N/A	N/A	N/A	N/A	N/A	N/A	After Air Cylinder Change
WM	11/8/06	4N11010	ALM051729	ALM050156	50.7	-0.10	9:20	51.3	9:18	6.60	7.73	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/8/06	4N11010	ALM051729	ALM050156	50.7	-0.25	17:17	51.6	17:15	6.60	7.73	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/9/06	4N11010	ALM051729	ALM050156	50.7	-0.40	10:44	65.8	10:42	6.60	7.73	0.0	10:46	50.8	10:49	6.72	5.68	Replaced Swagelock Fitting on Bias line
JG	11/9/06	4N11010	ALM051729	ALM050156	50.7	-0.04	18:23	50.8	18:19	6.72	5.68	N/A	N/A	N/A	N/A	N/A	N/A	
JG	11/10/06	4N11010	ALM051729	ALM050156	50.7	0.10	8:27	50.9	8:23	6.72	5.68	N/A	N/A	N/A	N/A	N/A	N/A	
JG	11/10/06	4N11010	ALM051729	ALM050156	50.7	0.10	18:06	50.8	18:02	6.72	5.68	N/A	N/A	N/A	N/A	N/A	N/A	
JG	11/11/06	4N11011	ALM051729	ALM050156	50.7	0.17	9:39	51.4	9:35	6.72	5.68	N/A	N/A	N/A	N/A	N/A	N/A	
JG	11/11/06	4N11011	ALM051729	ALM050156	50.7	-0.07	18:20	50.3	18:17	6.72	5.68	N/A	N/A	N/A	N/A	N/A	N/A	
JG	11/12/06	4N11012	ALM051729	ALM050156	50.7	-0.10	11:46	50.4	11:43	6.72	5.68	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/13/06	4N11012	ALM051729	ALM050156	50.7	0.03	7:42	51.0	7:39	6.72	5.68	N/A	N/A	N/A	N/A	N/A	N/A	
WM/JG	11/13/06	4N11012	ALM051729	ALM050156	50.7	-0.07	15:58	50.4	15:56	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/14/06	4N11012	ALM051729	ALM050156	50.7	-0.23	10:09	50.3	10:07	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/14/06	4N11012	ALM051729	ALM050156	50.7	-0.23	10:13	50.4	10:15	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	After Air Cylinder Change
WM	11/14/06	4N11012	ALM051729	ALM050156	50.7	0.05	21:56	50.9	21:54	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/15/06	4N11012	ALM051729	ALM050156	50.7	0.20	10:10	51.3	10:08	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
JG	11/16/06	4N11013	ALM051729	ALM050156	50.7	0.03	8:31	51.0	8:28	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/16/06	4N11013	ALM051729	ALM050156	50.7	-0.06	18:02	50.3	18:00	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/17/06	4N11013	ALM051729	ALM050156	50.7	0.07	7:05	50.9	7:03	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/17/06	4N11013	ALM051729	ALM050156	50.7	0.13	17:42	50.8	17:40	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/18/06	4N11013	ALM051729	ALM050156	50.7	0.17	9:50	51.0	9:47	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/18/06	4N11013	ALM051729	ALM050156	50.7	0.20	19:50	50.6	19:48	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/19/06	4N11013	ALM051729	ALM050156	50.7	0.33	9:39	51.1	9:37	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/19/06	4N11013	ALM051729	ALM050156	50.7	0.26	18:27	50.9	18:25	6.71	5.67	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/20/06	4N11013	ALM051729	ALM050156	50.7	0.33	8:02	51.2	8:00	6.71	5.67	0.0	8:04	50.7	8:06	6.60	5.62	
WM	11/20/06	4N11013	ALM051729	ALM050156	50.7	0.01	17:21	50.4	17:19	6.60	5.62	N/A	N/A	N/A	N/A	N/A	N/A	
WM	11/21/06	4N11013	ALM051729	ALM050156	50.7	-0.01	8:06	50.5	8:04	6.60	5.62	N/A	N/A	N/A	N/A	N/A	N/A	

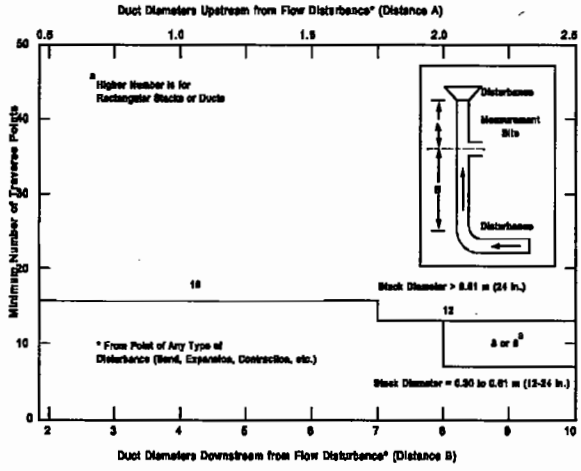
Reference Method Flow Calculations
Intel Rio Rancho, New Mexico
Q4 2006 FAB 11W Main Exhaust Stack

Run No.	1	2	3	
Date	11/03/2006	11/09/2006	11/17/2006	AVERAGE
Start Time	19:00	14:35	13:20	
Stop Time	19:30	14:55	13:35	
Barometric Pressure, in. Hg	24.74	24.43	24.80	24.66
Moisture, %	1.53	1.47	1.51	1.50
Saturation Moisture %	39.19%	58.64%	100.00%	65.94%
Dry Mole Fraction, 100-%	0.9847	0.9853	0.9849	0.9850
CO_2 at Stack, $\%_{dry}$	0.24	0.20	0.22	0.22
O_2 at Stack, $\%_{dry}$	20.67	20.70	20.68	20.68
CO + N_2, % dry	79.10	79.10	79.10	79.10
Dry Molecular Weight, lb/lb mole	28.86	28.86	28.86	28.86
Wet Molecular Weight, lb/lb mole	28.70	28.70	28.70	28.70
Stack Diameter inches	47.50	47.50	47.50	47.50
Stack Area, sq. ft. (@ flow meas. loc.)	12.31	12.31	12.31	12.31
Static Pressure, in. of H_2O	0.27	0.25	0.24	0.25
Stack Pressure, in. of Hg	24.76	24.45	24.82	24.68
Avg. Stack Temp.,°F	160.4	177.1	209.2	182.2
Avg. Stack Temp.,°R	620.4	637.1	669.2	642.2
Avg. Sqroot of Delta P	0.6077	0.6364	0.5877	0.6106
SDE Average	15.136	16.064	15.203	15.468
Pitot Coefficient	0.84	0.84	0.84	0.84
Stack Gas Velocity, afpm	2,447	2,613	2,455	2,505
Stack Gas Velocity, afps	40.78	43.55	40.91	41.75
Stack Flowrate, wet acfm	30,107	32,155	30,206	30,823
Stack Flowrate, dry scfm	20,872	21,445	19,463	20,593

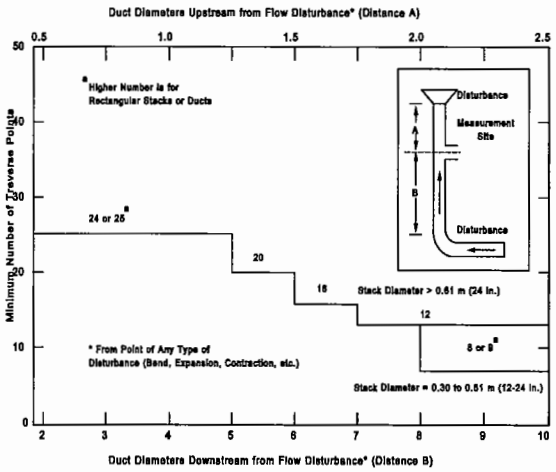
EPA REFERENCE METHOD 1
FIELD DATA SHEET
CIRCULAR STACKS

Firm Name:	Intel	Stack Diameter:	47.5
Plant Location:	Rio Rancho, New Mexico	Sample Port Diameter:	3.0
Sampling Location:	Fab 11W RTO Exhaust	Sample Port Depth:	3.5
TRC Project No.	31397-3100-00000	Diameters Upstream:	0.8
Date:	11/2/2006	Diameters Downstream:	2.6
Technician:	MS/JG	Flow or Particulate Test:	F
Circular/Rectangular:	C	Number of Test Ports:	2

For Flow Traverses



For Particulate Traverses



	Number of Traverse Points On a Diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
Traverse Point No.	Fraction of Diameter to Locate Traverse Point											
1	0.146	0.067	0.044	0.032	0.026	0.021	0.018	0.016	0.014	0.013	0.011	0.011
2	0.854	0.250	0.146	0.105	0.082	0.067	0.057	0.049	0.044	0.039	0.035	0.032
3		0.750	0.296	0.194	0.146	0.118	0.099	0.085	0.075	0.067	0.060	0.055
4		0.933	0.704	0.323	0.226	0.177	0.146	0.125	0.109	0.097	0.087	0.079
5			0.854	0.677	0.342	0.250	0.201	0.169	0.146	0.129	0.116	0.105
6			0.956	0.806	0.658	0.356	0.269	0.220	0.188	0.165	0.146	0.132
7				0.895	0.774	0.644	0.366	0.283	0.236	0.204	0.180	0.161
8				0.968	0.854	0.750	0.634	0.375	0.296	0.250	0.218	0.194
9					0.918	0.823	0.731	0.625	0.382	0.306	0.262	0.230
10					0.974	0.882	0.799	0.717	0.618	0.388	0.315	0.272
11						0.933	0.854	0.780	0.704	0.612	0.393	0.323
12						0.979	0.901	0.831	0.764	0.694	0.607	0.398
13							0.943	0.875	0.812	0.750	0.685	0.602
14							0.982	0.915	0.854	0.796	0.738	0.677
15								0.951	0.891	0.835	0.782	0.728
16								0.984	0.925	0.871	0.820	0.770
17									0.956	0.903	0.854	0.806
18									0.986	0.933	0.884	0.839
19										0.961	0.913	0.868
20										0.987	0.940	0.895
21											0.965	0.921
22											0.989	0.945
23												0.968
24												0.989

Traverse Points	
No.	Distance from Wall
1	4 8/16
2	6 11/16
3	9 2/16
4	11 15/16
5	15 6/16
6	20 7/16
7	34 1/16
8	39 2/16
9	42 9/16
10	45 6/16
11	47 13/16
12	50
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/3/2006
Unit Number:	FAB 11W Main Stack	**Stack Diameter (in.):**	47.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	0.27
Run No.:	1	**Operators:**	JRG/MOS
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.74
Pitot Tube ID:	P-502		
Pitot Tube Coefficient: 0.84			
Estimated Stack CO_2%:0.25 O_2%:20.5 H_2O%:1.6			
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test	
	Pass	**Fail**
Pitot Leak Check	Y	___
	Post Test	
	Pass	**Fail**
Pitot Leak Check	Y	___
Start:	19:00	
End:	19:30	

East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.36	73
2	0.37	75
3	0.37	74
4	0.37	77
5	0.41	82
6	0.43	88
7	0.50	212
8	0.47	250
9	0.47	270
10	0.48	295
11	0.44	310
12	0.32	312

South Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.20	101
2	0.23	105
3	0.24	102
4	0.25	140
5	0.26	154
6	0.28	167
7	0.31	190
8	0.48	171
9	0.47	163
10	0.48	155
11	0.44	151
12	0.38	132
Total Average:	**sqrt dp = 0.60769**	**160.4**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/9/2006
Unit Number:	FAB 11W Main Stack	**Stack Diameter (in.):**	47.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	0.25
Run No.:	2	**Operators:**	
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.43
Pitot Tube ID:	P-502		**Pre Test**
Pitot Tube Coefficient: 0.84			**Pass** / **Fail**
Estimated Stack CO_2%:0.19 O_2%:20.5 H_2O%:1.8		**Pitot Leak Check**	Y / ___
Platform Elevation (feet):	50 Ft		**Post Test**
			Pass / **Fail**
Comments:		**Pitot Leak Check**	Y / ___
		Start:	14:35
		End:	14:55

East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.42	332
2	0.42	323
3	0.43	293
4	0.43	221
5	0.41	97
6	0.38	91
7	0.35	90
8	0.37	90
9		
10		
11		
12		

-0.1

South Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.44	157
2	0.42	172
3	0.44	196
4	0.40	214
5	0.45	191
6	0.40	144
7	0.35	116
8	0.38	107
9		
10		
11		
12		
Total Average:	**sqrt dp = 0.63642**	**177.1**

EPA REFERENCE METHOD 2
VELOCITY TRAVERSE
FIELD DATA SHEET

Plant:	Intel Rio Rancho, New Mexico	**Date:**	11/17/2006
Unit Number:	FAB 11W Main Stack	**Stack Diameter (in.):**	47.50
Load Condition:	Normal	**Stack Gauge Pressure (in.H_2O):**	0.24
Run No.:	3	**Operators:**	JG/WM
Project No.:	31397-3200-00000	**Barometric Pressure (in.Hg):**	24.80
Pitot Tube ID:	P-502		
Pitot Tube Coefficient: 0.84			
Estimated Stack CO_2%:0.25 O_2%:20.5 H_2O%:1.6			
Platform Elevation (feet):	50 Ft		
Comments:			

	Pre Test Pass	Pre Test Fail
Pitot Leak Check	Y	___

	Post Test Pass	Post Test Fail
Pitot Leak Check	Y	___
Start:	13:20	
End:	13:35	

East Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.34	309.8
2	0.33	319.6
3	0.36	316
4	0.38	287
5	0.39	276
6	0.40	265.6
7	0.38	242.2
8	0.34	216
9	0.36	192.4
10	0.35	130.4
11	0.30	92
12	0.26	92.6

South Port

Traverse Point Number	Velocity Head (in. H_2O)	Stack Temp. (°F)
1	0.29	140.4
2	0.33	161.2
3	0.32	178.2
4	0.36	188
5	0.37	202
6	0.39	216
7	0.34	231
8	0.35	222
9	0.36	224
10	0.35	208
11	0.36	176
12	0.30	134
Total Average:	**sqrt dp = 0.58772**	**209.2**

APPENDIX C
Instrument QA/QC Data

APPENDIX C-1
FT-IR QC Checks

Client:	Site:	Project No.:
Intel	Rio Rancho, NM	31397-3200-00000
Q406		

	System Serial No.:	Interferometer No.:	Electronics No.'s:	ICU#00			Detector Type:	Det. Serial No.:	Det. Mfg. Date	Pre-Amp (gain)	Window Type
	MG-07-112	IF-06-157	Comm: 8022C-182	Proc: 8022C-190	Mod: 8021C-198	SAQ: 8023C-199	0.25 mm LN2	D-4862 (460 um)	3/1/2001	8027-324 (2x)	KBr
Acceptance				90+/-10						0.46=><=0.48	+/- 0.01
Theoretical		15798.282		88	0.983	Yes	1.288	-3.98	3.42	0.46 cm-1	3920.095

Location	Date	Time	Known Laser Freq:	Laser Phase Angle:	Peak Signal @ 1200 cm-1:	Saturated Below 400 cm-1	Phi A pp (V)	Phi B pp (V)	Preamp Check +AC	Preamp Check -AC	Preamp Check DC	Water Line (FWHH)	Freq (cm-1)
11 W RCTO Run 1	11/3/06	10:05	15798.302	88.24	0.638	Yes	4.66667	4.35294	1.46	-1.91	0.270	0.4647	3920.0952
11 W RCTO Run 2	11/9/2006	10:30											
11 W RCTO Run 3	11/17/2006	8:00											
11S RCTO Run 1	11/30/06	7:23	15798.305	88.24	0.644	Yes	4.70588	5.17647	1.32	-2.02	0.390	0.4719	3920.0874
11S RCTO Run 2	12/6/06	8:30											
11S RCTO Run 3	12/12/2006	9:00											
11X-F RCTO Run 1	11/2/06	10:25	15798.218	88.940	0.671	Yes	4.74510	5.176271	1.42	-1.900	0.4200	0.4817	3920.0907
11X-F RCTO Run 2	11/10/06	9:00	15798.218	88.940	0.671	Yes	4.74510	5.176271	1.42	-1.900	0.4200	0.4817	3920.0907
11X-F RCTO Run 3	11/16/06	7:20	15798.218	88.941	0.644	Yes	4.53902	4.901961	1.42	-2.150	0.3900	0.4572	3920.0912
11X-B RCTO Run 1	11/29/06	7:55	15798.218	88.941	0.652	Yes	4.666667	5.058824	1.46	-2.07	0.34	0.4766	3920.0892
11X-B RCTO Run 2	12/5/06	9:00											
11X-B RCTO Run 3	12/11/06	9:30											

Client:	Site:	Project No.:
Intel	Rio Rancho, NM	31397-3200-00000
Q406		

	System Serial No.:	Interferometer No.:	Window Size	Mirror Type	Path Length	Laser Type:	Apodization:	Omega Controller:	Sampling Mode:	Instrument Set Resolution:	Linearizer Offset:	Linearizer Linear:	Linearizer Quad:	Linearizer Cubic:	Delay
	MG-07-112	IF-06-157	25 x 5 mm	Au	5.11 m	HeNe	Med Norton Beer	POL=0 POH=373	Mid IR	0.5 cm-1	875	1000	335	7	0
		Acceptance Theoretical	0.2004	0.0024	0.198	15798.2635	3920.0946	15798.2528	15798.2595	256	2:23:00	Nitrogen	Yes	Ethylene	100

Location	Date	Time	Peak	Baseline	Amplitude	Original Laser Frequency	Auto Corr. Water Line	Auto Corr. Laser Frequency	Calc. Laser Frequency	Scans/ Sample	Sampling Interval (h:mm:ss)	Background	Background Taken Before Initial CTS	CTS	CTS Conc. (ppm):
11 W RCTO Run 1	11/3/06	10:05	0.2004	0.0024	0.1980	15798.3048	3920.0946	15798.2518	15798.2200	256	0:02:23	Nitrogen	Yes	Ethylene	100
11 W RCTO Run 2	11/9/2006	10:30								256	0:02:23	Nitrogen	Yes	Ethylene	100
11 W RCTO Run 3	11/17/2006	8:00								256	0:02:23	Nitrogen	Yes	Ethylene	100
11S RCTO Run 1	11/30/06	7:23	0.0505	0.0015	0.0468	15798.3048	3920.0946	15798.2308	15798.2226	256	0:02:23	Nitrogen	Yes	Ethylene	100
11S RCTO Run 2	12/6/06	8:30								256	0:02:23	Nitrogen	Yes	Ethylene	100
11S RCTO Run 3	12/12/2006	9:00								256	0:02:23	Nitrogen	Yes	Ethylene	100
11X-F RCTO Run 1	11/2/06	10:25	0.0562	0.0023	0.0528	15798.2181	3920.0946	15798.2230	15798.2148	256	0:02:23	Nitrogen	Yes	Ethylene	100
11X-F RCTO Run 2	11/10/06	9:00	0.0562	0.0023	0.0528	15798.2181	3920.0946	15798.2230	15798.2148	256	0:02:23	Nitrogen	Yes	Ethylene	100
11X-F RCTO Run 3	11/16/06	7:20	0.0221	0.0022	0.0201	15798.2181	3920.0946	15798.2307	15798.2141	256	0:02:23	Nitrogen	Yes	Ethylene	100
11X-B RCTO Run 1	11/29/06	7:55	0.0495	0.0004	0.0512	15798.2181	3920.0946	15798.2035	15798.2478	256	0:02:23	Nitrogen	Yes	Ethylene	100
11X-B RCTO Run 2	12/5/06	9:00								256	0:02:23	Nitrogen	Yes	Ethylene	100
11X-B RCTO Run 3	12/11/06	9:30								256	0:02:23	Nitrogen	Yes	Ethylene	100

Client:	Site:	Project No.:
Intel	Rio Rancho, NM	31397-3200-00000
Q406		

System Serial No.:	Interferometer No.:	MONO Value			Pressure Transducer Model No:	Pressure Transducer Serial No:	Transducer Slope:
MG-07-112	IF-06-157	2E			750B13TFE3RF	764418	0.6645
	Acceptance Theoretical		c:\Projects\Intel-RR (31397)\Q3-04 VOC-HAPs (WA 2100)\data\FTIR Results\Spectra\RTO\	CD-RW\	150	150	250

Location	Date	Time	CTS Cylinder No.	Primary Storage Directory:	Backup Storage Disk:	Cell Temp (oC)	FTIR Transfer Line Temp (oC)	Source to Pump Line Temp (oF):
11 W RCTO Run 1	11/3/06	10:05	ALM007358	c:\Projects\Intel-RR (31397)\Q4-06 VOC (WA 3200)\data\FTIR Results\Spectra\11W 11 03 06 Run 1\	USB/Network	150	150	250/250
11 W RCTO Run 2	11/9/2006	10:30	ALM007358	c:\Projects\Intel-RR (31397)\Q4-06 VOC (WA 3200)\data\FTIR Results\Spectra\11W 11 03 06 Run 2\	USB/Network	150	150	250/250
11 W RCTO Run 3	11/17/2006	8:00	ALM007358	c:\Projects\Intel-RR (31397)\Q4-06 VOC (WA 3200)\data\FTIR Results\Spectra\11W 11 03 06 Run3\	USB/Network	150	150	250/250
11S RCTO Run 1	11/30/06	7:23	ALM014591	c:\Projects\Intel-RR (31397)\Q4-06 VOC (WA 3200)\data\FTIR Results\Spectra\11S 11 30 06 Run 1\	USB/Network	150	150	250/250
11S RCTO Run 2	12/6/06	8:30	ALM014591	c:\Projects\Intel-RR (31397)\Q4-06 VOC (WA 3200)\data\FTIR Results\Spectra\11S 11 30 06 Run 2\	USB/Network	150	150	250/250
11S RCTO Run 3	12/12/2006	9:00	ALM014591	c:\Projects\Intel-RR (31397)\Q4-06 VOC (WA 3200)\data\FTIR Results\Spectra\11S 11 30 06 Run 3\	USB/Network	150	150	250/250
11X-F RCTO Run 1	11/2/06	10:25	ALM011842	c:\Projects\Intel-RR (31397)\Q4-04 VOC (WA 3200)\data\FTIR Results\Spectra\11X-F 11 02 06 Run 1\	USB/Network	150	150	250/250
11X-F RCTO Run 2	11/10/06	9:00	ALM011842	c:\Projects\Intel-RR (31397)\Q4-04 VOC (WA 3200)\data\FTIR Results\Spectra\11X-F 11 02 06 Run 2\	USB/Network	150	150	250/250
11X-F RCTO Run 3	11/16/06	7:20	ALM014591	c:\Projects\Intel-RR (31397)\Q4-04 VOC (WA 3200)\data\FTIR Results\Spectra\11X-F 11 16 06 Run 3\	USB/Network	150	150	250/250
11X-B RCTO Run 1	11/29/06	7:55	ALM011840	c:\Projects\Intel-RR (31397)\Q4-04 VOC (WA 3200)\data\FTIR Results\Spectra\11X-B 11 29 06 Run 1\	USB/Network	150	150	250/250
11X-B RCTO Run 2	12/5/06	9:00	ALM011840	c:\Projects\Intel-RR (31397)\Q4-04 VOC (WA 3200)\data\FTIR Results\Spectra\11X-B 11 29 06 Run 2\	USB/Network	150	150	250/250
11X-B RCTO Run 3	12/11/06	9:30	ALM011840	c:\Projects\Intel-RR (31397)\Q4-04 VOC (WA 3200)\data\FTIR Results\Spectra\11X-B 11 29 06 Run 3\	USB/Network	150	150	250/250

Client:	Site:	Project No.:
Intel	Rio Rancho, NM	31397-3200-00000
Q406		

System Serial No.:	Interferometer No.:	Transducer Offset:
MG-07-112	IF-06-157	0

Acceptance Theoretical	Y

Location	Date	Time	Sampling Transport System Operational (Y/N)
11 W RCTO Run 1	11/3/06	10:05	Y
11 W RCTO Run 2	11/9/2006	10:30	Y
11 W RCTO Run 3	11/17/2006	8:00	Y
11S RCTO Run 1	11/30/06	7:23	Y
11S RCTO Run 2	12/6/06	8:30	Y
11S RCTO Run 3	12/12/2006	9:00	Y
11X-F RCTO Run 1	11/2/06	10:25	Y
11X-F RCTO Run 2	11/10/06	9:00	Y
11X-F RCTO Run 3	11/16/06	7:20	Y
11X-B RCTO Run 1	11/29/06	7:55	Y
11X-B RCTO Run 2	12/5/06	9:00	Y
11X-B RCTO Run 3	12/11/06	9:30	Y

APPENDIX C-2
FT-IR CTS Results

FTIR Quality Assurance Summary
Calibration Transfer Standard Results
Intel Rio Rancho 2006 4th Quarter Monitoring
RCTOs

Source Location	Date	Time		822.26-935.32 cm^{-1} (ppm)	935.56-961.35 cm^{-1} (ppm)	961.60-1129.62 cm^{-1} (ppm)	2905.03-3286.88 cm^{-1} (ppm)	Conc. (ppm)	Cylinder Number	FTIR Serial No.
Fab 11W Outlet Run 1	11/03/06	22:58 to 23:04	Pre-Test	96.18	96.43	95.49	95.54	100 ± 2	ALM007358	MG-107-112
Fab 11W Outlet Run 1	11/04/06	10:22 to 10:33	Post-Test	95.74	95.44	94.63	95.09	100 ± 2	ALM007358	MG-107-112
Fab 11W Outlet Run 2	11/09/06	11:12 to 11:18	Pre-Test	95.39	94.85	94.45	94.89	100 ± 2	ALM007358	MG-107-112
Fab 11W Outlet Run 2	11/09/06	19:42 to 19:50	Post-Test	95.80	95.14	94.67	100.07	100 ± 2	ALM007358	MG-107-112
Fab 11W Outlet Run 3	11/17/06	09:00 to 09:11	Pre-Test	96.15	95.84	95.05	95.11	100 ± 2	ALM007358	MG-107-112
Fab 11W Outlet Run 3	11/17/06	17:46 to 17:56	Post-Test	96.46	96.18	95.74	95.50	100 ± 2	ALM007358	MG-107-112
Fab 11S Outlet Run 1	11/30/06	08:53 to 09:03	Pre-Test	95.89	95.31	94.64	96.97	100 ± 2	ALM014591	MG-107-112
Fab 11S Outlet Run 1	11/30/06	18:40 to 18:51	Post-Test	96.81	96.09	95.55	98.59	100 ± 2	ALM014591	MG-107-112
Fab 11S Outlet Run 2	12/06/06	09:27 to 09:38	Pre-Test	96.57	95.72	95.18	97.65	100 ± 2	ALM014591	MG-107-112
Fab 11S Outlet Run 2	12/06/06	18:11 to 18:24	Post-Test	95.83	95.32	94.97	98.74	100 ± 2	ALM014591	MG-107-112
Fab 11S Outlet Run 3	12/12/06	10:28 to 10:38	Pre-Test	97.79	96.84	96.24	98.79	100 ± 2	ALM014591	MG-107-112
Fab 11S Outlet Run 3	12/12/06	19:09 to 19:20	Post-Test	97.61	97.06	96.34	99.65	100 ± 2	ALM014591	MG-107-112
Fab 11X-Bridge Outlet Run 1	11/29/06	09:45 to 09:56	Pre-Test	99.21	98.97	98.36	97.91	100 ± 2	ALM011840	MG-107-112
Fab 11X-Bridge Outlet Run 1	11/29/06	18:49 to 19:00	Post-Test	99.20	99.24	98.64	100.64	100 ± 2	ALM011840	MG-107-112
Fab 11X-Bridge Outlet Run 2	12/05/06	09:39 to 09:52	Pre-Test	99.86	99.57	98.63	99.46	100 ± 2	ALM011840	MG-107-112
Fab 11X-Bridge Outlet Run 2	12/05/06	18:27 to 18:38	Post-Test	98.95	98.59	97.94	99.91	100 ± 2	ALM011840	MG-107-112
Fab 11X-Bridge Outlet Run 3	12/11/06	10:10 to 10:21	Pre-Test	99.01	98.48	98.01	98.34	100 ± 2	ALM011840	MG-107-112
Fab 11X-Bridge Outlet Run 3	12/11/06	19:07 to 19:17	Post-Test	99.03	99.17	98.76	101.74	100 ± 2	ALM011840	MG-107-112
Fab 11X-Fab Outlet Run 1	11/02/06	12:24 to 12:35	Pre-Test	99.89	99.51	98.96	98.81	100 ± 2	ALM011842	MG-107-112
Fab 11X-Fab Outlet Run 1	11/03/06	08:49 to 09:00	Post-Test	100.37	99.45	98.61	99.98	100 ± 2	ALM011842	MG-107-112
Fab 11X-Fab Outlet Run 2	11/10/06	11:23 to 11:36	Pre-Test	99.74	98.60	98.78	98.61	100 ± 2	ALM011842	MG-107-112
Fab 11X-Fab Outlet Run 2	11/10/06	19:43 to 19:54	Post-Test	99.89	99.45	98.43	100.88	100 ± 2	ALM011842	MG-107-112
Fab 11X-Fab Outlet Run 3	11/16/06	09:16 to 09:27	Pre-Test	99.65	99.48	98.84	98.14	100 ± 2	ALM014591	MG-107-112
Fab 11X-Fab Outlet Run 3	11/16/06	17:41 to 17:51	Post-Test	99.48	99.31	99.75	102.27	100 ± 2	ALM014591	MG-107-112
			Limits:	± 5%	± 5%	± 5%	± 5%			

Ethylene used as the calibration transfer standard. Four distinct wave number regions used for analysis.

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM007358
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11S RUN 1 11 03 06 PRE TEST CTS TO PROBE B_0000.LAB	11/3/06	22:58:43	0.00	0.00	95.68	95.98	95.00	94.97	150.51	1.03
11S RUN 1 11 03 06 PRE TEST CTS TO PROBE B_0001.LAB	11/3/06	23:01:23	0.00	0.00	96.75	97.00	96.09	96.11	150.51	1.02
11S RUN 1 11 03 06 PRE TEST CTS TO PROBE B_0002.LAB	11/3/06	23:04:03	0.00	0.00	96.12	96.31	95.36	95.56	150.51	1.02
		Average			**96.18**	**96.43**	**95.49**	**95.54**		
11S RUN 1 11 03 06 PRE TEST N2 TO PROBE B_0000.LAB	11/3/06	22:41:45	0.01	0.00	-0.13	0.04	0.04	0.22	150.51	1.03
11S RUN 1 11 03 06 PRE TEST N2 TO PROBE B_0001.LAB	11/3/06	22:44:25	0.01	0.00	-0.19	0.00	-0.08	-0.01	150.51	1.03
11S RUN 1 11 03 06 PRE TEST N2 TO PROBE B_0002BKG.LAB	11/3/06	22:47:22	0.00	0.00	0.00	0.00	0.00	0.00	150.51	1.03
11S RUN 1 11 03 06 PRE TEST N2 TO PROBE B_0003.LAB	11/3/06	22:50:03	0.00	0.00	-0.12	-0.01	0.11	0.15	150.51	1.01
11S RUN 1 11 03 06 PRE TEST N2 TO PROBE B_0004.LAB	11/3/06	22:52:43	0.00	0.00	-0.11	-0.01	0.12	0.17	150.51	1.03
11S RUN 1 11 03 06 B POST TEST CTS TO PROBE_0000.LAB	11/4/06	10:22:33	0.01	0.00	95.60	95.28	94.54	95.42	150.51	1.02
11S RUN 1 11 03 06 B POST TEST CTS TO PROBE_0001.LAB	11/4/06	10:25:12	0.01	0.00	95.49	95.25	94.46	94.87	150.51	1.03
11S RUN 1 11 03 06 B POST TEST CTS TO PROBE_0002.LAB	11/4/06	10:27:51	0.01	0.00	95.31	95.06	94.21	94.53	150.51	1.03
11S RUN 1 11 03 06 B POST TEST CTS TO PROBE_0003.LAB	11/4/06	10:30:31	0.01	0.00	95.92	95.72	94.82	95.13	150.51	1.03
11S RUN 1 11 03 06 B POST TEST CTS TO PROBE_0004.LAB	11/4/06	10:33:10	0.01	0.00	96.39	95.89	95.10	95.47	150.51	1.02
		Average			**95.74**	**95.44**	**94.63**	**95.09**		
11S RUN 1 11 03 06 B POST TEST ZERO AIR TO PROBE_0000.LAB	11/4/06	10:47:31	0.01	0.00	0.09	0.03	-0.02	0.78	150.51	1.00
11S RUN 1 11 03 06 B POST TEST ZERO AIR TO PROBE_0001.LAB	11/4/06	10:50:11	0.01	0.00	0.09	-0.01	0.14	0.95	150.51	1.00
11S RUN 1 11 03 06 B POST TEST ZERO AIR TO PROBE_0002.LAB	11/4/06	10:52:50	0.01	0.00	0.21	0.00	0.05	1.07	150.51	1.00
11S RUN 1 11 03 06 B POST TEST ZERO AIR TO PROBE_0003.LAB	11/4/06	10:55:30	0.01	0.00	0.23	0.00	0.09	1.08	150.51	1.00
11S RUN 1 11 03 06 B POST TEST ZERO AIR TO PROBE_0004.LAB	11/4/06	10:58:09	0.01	0.00	0.08	0.00	0.01	1.14	150.51	1.00

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM007358
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11W RUN 2 11 09 06 PRE TEST CTS TO PROBE_0000.LAB	11/9/06	11:12:44	0.00	0.00	94.53	94.03	93.59	93.91	150.51	1.01
11W RUN 2 11 09 06 PRE TEST CTS TO PROBE_0001.LAB	11/9/06	11:15:24	-0.01	0.00	95.69	95.18	94.71	95.06	150.51	1.00
11W RUN 2 11 09 06 PRE TEST CTS TO PROBE_0002.LAB	11/9/06	11:18:03	-0.01	0.00	95.96	95.33	95.06	95.71	150.51	0.99
		Average			**95.39**	**94.85**	**94.45**	**94.89**		
11W RUN 2 11 09 06 PRE TEST N2 TO PROBE_0000.LAB	11/9/06	10:54:24	0.02	0.00	0.08	-0.01	0.04	0.64	150.51	1.00
11W RUN 2 11 09 06 PRE TEST N2 TO PROBE_0001.LAB	11/9/06	10:57:04	0.02	0.00	-0.14	0.01	-0.04	0.52	150.51	1.00
11W RUN 2 11 09 06 PRE TEST N2 TO PROBE_0002BKG.LAB	11/9/06	11:00:15	0.00	0.00	0.00	0.00	0.00	0.00	150.51	0.99
11W RUN 2 11 09 06 PRE TEST N2 TO PROBE_0003.LAB	11/9/06	11:02:56	-0.01	0.00	-0.07	-0.01	0.05	0.07	150.51	1.00
11W RUN 2 11 09 06 PRE TEST N2 TO PROBE_0004.LAB	11/9/06	11:05:36	-0.01	0.00	-0.10	0.00	-0.02	0.12	150.51	1.00
11W RUN 2 11 09 06 POST CTS TO PROBE_0001.LAB	11/9/06	19:42:57	-0.02	0.00	96.20	95.44	95.11	100.46	150.51	0.98
11W RUN 2 11 09 06 POST CTS TO PROBE_0002.LAB	11/9/06	19:45:37	-0.02	0.00	95.71	95.08	94.59	100.00	150.51	0.99
11W RUN 2 11 09 06 POST CTS TO PROBE_0003.LAB	11/9/06	19:48:16	-0.02	0.00	96.29	95.68	95.24	100.59	150.51	0.98
11W RUN 2 11 09 06 POST CTS TO PROBE_0004.LAB	11/9/06	19:50:56	-0.02	0.00	95.00	94.35	93.75	99.24	150.51	1.00
		Average			**95.80**	**95.14**	**94.67**	**100.07**		
11W RUN 2 11 09 06 POST N2 TO PROBE_0000.LAB	11/9/06	19:56:52	0.01	0.00	1.53	1.60	1.44	7.14	150.51	1.00
11W RUN 2 11 09 06 POST N2 TO PROBE_0001.LAB	11/9/06	19:59:32	-0.02	0.00	-0.09	0.16	-0.11	5.10	150.51	0.99
11W RUN 2 11 09 06 POST N2 TO PROBE_0002.LAB	11/9/06	20:02:11	-0.02	0.00	-0.25	0.13	-0.14	5.52	150.51	0.99
11W RUN 2 11 09 06 POST N2 TO PROBE_0003.LAB	11/9/06	20:04:51	-0.02	0.00	-0.20	0.11	-0.18	4.62	150.51	1.00
11W RUN 2 11 09 06 POST N2 TO PROBE_0004.LAB	11/9/06	20:07:31	-0.02	0.00	-0.12	0.08	-0.06	5.20	150.51	0.99

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM007358
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11W RUN 3 11 17 06 PRE TEST CTS TO PROBE_0000.LAB	11/17/06	9:00:58	0.03	0.00	97.17	97.15	96.36	96.47	151.25	0.98
11W RUN 3 11 17 06 PRE TEST CTS TO PROBE_0001.LAB	11/17/06	9:03:37	0.03	0.00	95.15	94.90	94.05	94.14	150.51	1.01
11W RUN 3 11 17 06 PRE TEST CTS TO PROBE_0002.LAB	11/17/06	9:06:16	0.03	0.00	95.68	95.29	94.50	94.48	150.51	1.00
11W RUN 3 11 17 06 PRE TEST CTS TO PROBE_0003.LAB	11/17/06	9:08:55	0.03	0.00	96.28	95.77	94.93	95.03	150.51	1.00
11W RUN 3 11 17 06 PRE TEST CTS TO PROBE_0004.LAB	11/17/06	9:11:34	0.03	0.00	96.49	96.10	95.41	95.43	150.51	0.99
		Average			**96.15**	**95.84**	**95.05**	**95.11**		
11W RUN 3 11 17 06 PRE TEST N2 TO PROBE_0000.LAB	11/17/06	9:19:11	0.02	0.00	0.15	0.16	0.10	0.32	150.51	1.00
11W RUN 3 11 17 06 PRE TEST N2 TO PROBE_0001.LAB	11/17/06	9:21:50	0.02	0.00	-0.03	0.13	0.21	0.37	150.51	1.00
11W RUN 3 11 17 06 PRE TEST N2 TO PROBE_0002BKG.LAB	11/17/06	9:26:09	0.00	0.00	0.00	0.00	0.00	0.00	150.51	1.00
11W RUN 3 11 17 06 PRE TEST N2 TO PROBE_0003.LAB	11/17/06	9:28:50	0.00	0.00	-0.06	0.01	-0.06	-0.09	150.51	0.99
11W RUN 3 11 17 06 PRE TEST N2 TO PROBE_0004.LAB	11/17/06	9:31:29	0.00	0.00	-0.12	-0.01	0.03	-0.12	150.51	1.00
11W RUN 3 11 17 06 POST TEST CTS TO PROBE_0000.LAB	11/17/06	17:46:00	0.00	0.00	97.09	96.91	96.38	95.99	150.51	0.99
11W RUN 3 11 17 06 POST TEST CTS TO PROBE_0001.LAB	11/17/06	17:48:39	-0.01	0.00	96.31	96.06	95.48	95.47	150.51	1.00
11W RUN 3 11 17 06 POST TEST CTS TO PROBE_0002.LAB	11/17/06	17:51:18	-0.01	0.00	97.60	97.40	96.69	96.27	150.51	0.99
11W RUN 3 11 17 06 POST TEST CTS TO PROBE_0003.LAB	11/17/06	17:53:58	-0.01	0.00	95.35	94.97	94.82	94.61	150.51	1.01
11W RUN 3 11 17 06 POST TEST CTS TO PROBE_0004.LAB	11/17/06	17:56:37	-0.01	0.00	95.93	95.59	95.31	95.17	150.51	1.00
		Average			**96.46**	**96.18**	**95.74**	**95.50**		
11W RUN 3 11 17 06 POST TEST N2 TO PROBE_0000.LAB	11/17/06	18:03:37	-0.01	0.00	-0.27	0.12	0.15	0.76	150.51	1.01
11W RUN 3 11 17 06 POST TEST N2 TO PROBE_0001.LAB	11/17/06	18:06:16	-0.01	0.00	-0.26	0.07	0.07	0.52	150.51	1.00
11W RUN 3 11 17 06 POST TEST N2 TO PROBE_0002.LAB	11/17/06	18:08:56	-0.01	0.00	-0.15	0.06	-0.02	0.33	150.51	1.00
11W RUN 3 11 17 06 POST TEST N2 TO PROBE_0003.LAB	11/17/06	18:11:35	-0.01	0.00	-0.28	0.05	-0.04	0.33	150.51	0.99
11W RUN 3 11 17 06 POST TEST N2 TO PROBE_0004.LAB	11/17/06	18:14:14	-0.01	0.00	-0.09	0.05	-0.18	0.59	150.51	1.00

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 07/22/05
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM014591
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11S RUN 1 11 30 06 PRE TEST CTS TO PROBE_0000.LAB	11/30/06	9:32:36	0.02	0.00	96.46	95.85	95.02	97.28	150.51	1.0059
11S RUN 1 11 30 06 PRE TEST CTS TO PROBE_0001.LAB	11/30/06	9:35:15	0.01	0.00	96.02	95.54	94.75	97.06	150.51	1.0112
11S RUN 1 11 30 06 PRE TEST CTS TO PROBE_0002.LAB	11/30/06	9:37:54	0.01	0.00	95.54	94.89	94.33	96.62	150.51	1.0165
11S RUN 1 11 30 06 PRE TEST CTS TO PROBE_0003.LAB	11/30/06	9:40:33	0.01	0.00	95.98	95.41	94.81	97.14	150.51	1.0112
11S RUN 1 11 30 06 PRE TEST CTS TO PROBE_0004.LAB	11/30/06	9:43:13	0.01	0.00	95.44	94.84	94.27	96.74	150.51	1.0165
		Average			**95.89**	**95.31**	**94.64**	**96.97**		
11S RUN 1 11 30 06 PRE TEST N2 TO PROBE_0000.LAB	11/30/06	9:49:54	0.01	0.00	0.23	0.17	0.13	2.42	150.51	0.9953
11S RUN 1 11 30 06 PRE TEST N2 TO PROBE_0001.LAB	11/30/06	9:52:33	0.01	0.00	0.16	0.12	0.07	2.34	150.51	1.0006
11S RUN 1 11 30 06 PRE TEST N2 TO PROBE_0002BKG.LAB	11/30/06	9:55:16	0.00	0.00	0.00	0.00	0.00	0.00	150.51	0.9900
11S RUN 1 11 30 06 PRE TEST N2 TO PROBE_0003.LAB	11/30/06	9:57:57	0.00	0.00	-0.07	0.02	-0.12	0.09	150.51	1.0006
11S RUN 1 11 30 06 PRE TEST N2 TO PROBE_0004.LAB	11/30/06	10:00:36	0.00	0.00	-0.05	-0.03	-0.13	0.13	150.51	0.9953
11S RUN 1 11 30 06 POST TEST CTS TO PROBE_0000.LAB	11/30/06	18:40:35	0.01	0.00	96.90	96.41	95.76	98.75	150.51	0.9900
11S RUN 1 11 30 06 POST TEST CTS TO PROBE_0001.LAB	11/30/06	18:43:14	0.00	0.00	97.35	96.65	95.94	99.13	150.51	0.9847
11S RUN 1 11 30 06 POST TEST CTS TO PROBE_0002.LAB	11/30/06	18:45:54	0.01	0.00	96.18	95.43	94.79	97.91	150.51	0.9953
11S RUN 1 11 30 06 POST TEST CTS TO PROBE_0003.LAB	11/30/06	18:48:33	0.00	0.00	96.85	96.06	95.65	98.90	150.51	0.9847
11S RUN 1 11 30 06 POST TEST CTS TO PROBE_0004.LAB	11/30/06	18:51:12	0.00	0.00	96.74	95.92	95.58	98.93	150.51	0.9847
		Average			**96.81**	**96.09**	**95.55**	**98.72**		
11S RUN 1 11 30 06 POST TEST N2 TO PROBE_0000.LAB	11/30/06	18:56:36	0.00	0.00	-0.05	0.05	-0.13	3.23	150.51	0.9953
11S RUN 1 11 30 06 POST TEST N2 TO PROBE_0001.LAB	11/30/06	18:59:15	0.00	0.00	-0.02	-0.01	-0.20	3.27	150.51	1.0006
11S RUN 1 11 30 06 POST TEST N2 TO PROBE_0002.LAB	11/30/06	19:01:54	0.00	0.00	-0.05	-0.02	-0.10	3.20	150.51	1.0006
11S RUN 1 11 30 06 POST TEST N2 TO PROBE_0003.LAB	11/30/06	19:04:34	0.00	0.00	-0.06	-0.03	-0.10	3.21	150.51	0.9847
11S RUN 1 11 30 06 POST TEST N2 TO PROBE_0004.LAB	11/30/06	19:07:13	0.00	0.00	-0.06	-0.03	-0.05	3.13	150.51	0.9953

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM014591
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11S RUN 2 12 06 06 PRE TEST CTS TO PROBE_0000.LAB	12/6/06	9:27:39	0.01	0.00	96.40	95.68	95.05	97.39	150.51	1.01
11S RUN 2 12 06 06 PRE TEST CTS TO PROBE_0001.LAB	12/6/06	9:30:19	0.01	0.00	96.91	96.08	95.61	97.94	150.51	1.00
11S RUN 2 12 06 06 PRE TEST CTS TO PROBE_0002.LAB	12/6/06	9:32:58	0.01	0.00	97.02	96.07	95.46	97.99	150.51	1.00
11S RUN 2 12 06 06 PRE TEST CTS TO PROBE_0003.LAB	12/6/06	9:35:38	0.01	0.00	96.28	95.48	94.91	97.44	150.51	1.01
11S RUN 2 12 06 06 PRE TEST CTS TO PROBE_0004.LAB	12/6/06	9:38:17	0.01	0.00	96.21	95.28	94.88	97.48	150.51	1.01
		Average			**96.57**	**95.72**	**95.18**	**97.65**		
11S RUN 2 12 06 06 PRE TEST N2 TO PROBE_0000.LAB	12/6/06	9:43:59	0.01	0.00	0.51	0.14	-0.16	2.95	150.51	1.00
11S RUN 2 12 06 06 PRE TEST N2 TO PROBE_0001.LAB	12/6/06	9:46:39	0.01	0.00	0.45	0.10	-0.10	2.80	150.51	1.00
11S RUN 2 12 06 06 PRE TEST N2 TO PROBE_0002BKG.LAB	12/6/06	9:49:23	0.00	0.00	0.00	0.00	0.00	0.00	150.51	1.00
11S RUN 2 12 06 06 PRE TEST N2 TO PROBE_0003.LAB	12/6/06	9:52:04	0.00	0.00	-0.09	-0.06	-0.06	-0.04	150.51	1.00
11S RUN 2 12 06 06 PRE TEST N2 TO PROBE_0004.LAB	12/6/06	9:54:43	0.00	0.00	-0.18	-0.10	-0.03	-0.03	150.51	1.00
11S RUN 2 12 06 06 POST TEST CTS TO PROBE_0000.LAB	12/6/06	18:11:20	0.01	0.00	96.73	96.43	95.76	99.42	150.51	0.99
11S RUN 2 12 06 06 POST TEST CTS TO PROBE_0001.LAB	12/6/06	18:14:00	0.01	0.00	95.83	95.24	94.85	98.59	150.51	1.00
11S RUN 2 12 06 06 POST TEST CTS TO PROBE_0002.LAB	12/6/06	18:16:39	0.01	0.00	95.54	95.05	94.73	98.54	150.51	1.00
11S RUN 2 12 06 06 POST TEST CTS TO PROBE_0003.LAB	12/6/06	18:19:19	0.01	0.00	94.94	94.32	94.08	97.85	150.51	1.00
11S RUN 2 12 06 06 POST TEST CTS TO PROBE_0004.LAB	12/6/06	18:21:58	0.01	0.00	96.01	95.38	95.14	98.99	150.51	0.99
11S RUN 2 12 06 06 POST TEST CTS TO PROBE_0005.LAB	12/6/06	18:24:38	0.00	0.00	95.91	95.49	95.27	99.02	150.51	0.99
		Average			**95.83**	**95.32**	**94.97**	**98.74**		
11S RUN 2 12 06 06 POST TEST N2 TO PROBE_0000.LAB	12/6/06	18:28:44	0.00	0.00	-0.09	0.03	0.06	3.99	150.51	1.00
11S RUN 2 12 06 06 POST TEST N2 TO PROBE_0001.LAB	12/6/06	18:31:25	0.00	0.00	-0.20	0.00	0.07	4.00	150.51	0.99
11S RUN 2 12 06 06 POST TEST N2 TO PROBE_0002.LAB	12/6/06	18:34:04	0.00	0.00	-0.15	-0.01	0.13	4.07	150.51	0.98
11S RUN 2 12 06 06 POST TEST N2 TO PROBE_0003.LAB	12/6/06	18:36:44	0.00	0.00	-0.12	-0.03	0.02	3.97	149.76	1.00
11S RUN 2 12 06 06 POST TEST N2 TO PROBE_0004.LAB	12/6/06	18:39:23	0.00	0.00	-0.14	-0.03	-0.04	4.03	150.51	1.00

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM014591
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11S RUN 3 12 12 06 PRE TEST CTS TO PROBE_0001.LAB	12/12/06	10:28:00	0.01	0.00	97.58	96.69	96.10	98.61	150.51	1.00
11S RUN 3 12 12 06 PRE TEST CTS TO PROBE_0002.LAB	12/12/06	10:30:39	0.01	0.00	98.18	97.19	96.60	99.16	150.51	0.99
11S RUN 3 12 12 06 PRE TEST CTS TO PROBE_0003.LAB	12/12/06	10:33:18	0.01	0.00	96.99	96.11	95.53	97.98	150.51	1.00
11S RUN 3 12 12 06 PRE TEST CTS TO PROBE_0004.LAB	12/12/06	10:35:58	0.01	0.00	97.62	96.64	95.95	98.62	150.51	1.00
11S RUN 3 12 12 06 PRE TEST CTS TO PROBE_0005.LAB	12/12/06	10:38:37	0.01	0.00	98.57	97.58	96.98	99.59	150.51	0.98
		Average			**97.79**	**96.84**	**96.24**	**98.79**		
11S RUN 3 12 12 06 PRE TEST N2 TO PROBE_0000.LAB	12/12/06	10:43:53	0.00	0.00	0.17	0.04	-0.21	2.58	150.51	1.00
11S RUN 3 12 12 06 PRE TEST N2 TO PROBE_0001.LAB	12/12/06	10:46:33	0.00	0.00	0.24	0.01	-0.20	2.58	150.51	1.00
11S RUN 3 12 12 06 PRE TEST N2 TO PROBE_0002BKG.LAB	12/12/06	10:49:16	0.00	0.00	0.00	0.00	0.00	0.00	150.51	0.99
11S RUN 3 12 12 06 PRE TEST N2 TO PROBE_0003.LAB	12/12/06	10:51:58	0.00	0.00	0.04	-0.01	0.07	0.08	150.51	0.99
11S RUN 3 12 12 06 PRE TEST N2 TO PROBE_0004.LAB	12/12/06	10:54:37	0.00	0.00	-0.06	-0.02	0.03	0.23	150.51	0.98
11S RUN 3 12 12 06 POST TEST CTS TO PROBE_0000.LAB	12/12/06	19:09:41	0.01	0.00	98.98	98.38	97.68	100.64	150.51	0.98
11S RUN 3 12 12 06 POST TEST CTS TO PROBE_0001.LAB	12/12/06	19:12:20	0.01	0.00	96.00	95.40	94.74	97.84	150.51	1.01
11S RUN 3 12 12 06 POST TEST CTS TO PROBE_0002.LAB	12/12/06	19:15:00	0.01	0.00	98.01	97.50	96.62	100.22	150.51	0.99
11S RUN 3 12 12 06 POST TEST CTS TO PROBE_0003.LAB	12/12/06	19:17:39	0.00	0.00	96.61	96.18	95.50	98.96	150.51	1.00
11S RUN 3 12 12 06 POST TEST CTS TO PROBE_0004.LAB	12/12/06	19:20:19	0.00	0.00	98.45	97.83	97.15	100.60	150.51	0.98
		Average			**97.61**	**97.06**	**96.34**	**99.65**		
11S RUN 3 12 12 06 POST TEST N2 TO PROBE_0000.LAB	12/12/06	19:25:11	0.00	0.00	0.04	0.01	-0.18	3.22	150.51	1.01
11S RUN 3 12 12 06 POST TEST N2 TO PROBE_0001.LAB	12/12/06	19:27:51	0.00	0.00	0.02	0.02	-0.08	3.42	150.51	1.00
11S RUN 3 12 12 06 POST TEST N2 TO PROBE_0002.LAB	12/12/06	19:30:30	0.00	0.00	-0.07	-0.01	-0.21	3.38	150.51	0.99
11S RUN 3 12 12 06 POST TEST N2 TO PROBE_0003.LAB	12/12/06	19:33:10	0.00	0.00	-0.01	0.01	-0.17	3.37	150.51	1.00
11S RUN 3 12 12 06 POST TEST N2 TO PROBE_0004.LAB	12/12/06	19:35:49	0.00	0.00	-0.04	0.00	-0.08	3.44	150.51	1.00

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM011840
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11X-B RUN 1 11 29 06 PRE TEST CTS TO PROBE_0000.LAB	11/29/06	9:45:59	0.01	0.00	99.15	99.02	98.22	97.81	150.51	1.00
11X-B RUN 1 11 29 06 PRE TEST CTS TO PROBE_0001.LAB	11/29/06	9:48:38	0.01	0.00	99.89	99.69	98.93	98.48	150.51	0.99
11X-B RUN 1 11 29 06 PRE TEST CTS TO PROBE_0002.LAB	11/29/06	9:51:16	0.01	0.00	98.97	98.67	98.04	97.53	150.51	1.00
11X-B RUN 1 11 29 06 PRE TEST CTS TO PROBE_0003.LAB	11/29/06	9:53:55	0.00	0.00	98.67	98.28	97.91	97.47	150.51	1.00
11X-B RUN 1 11 29 06 PRE TEST CTS TO PROBE_0004.LAB	11/29/06	9:56:33	0.00	0.00	99.39	99.18	98.69	98.28	150.51	0.99
		Average			**99.21**	**98.97**	**98.36**	**97.91**		
11X-B RUN 1 11 29 06 PRE TEST N2 TO PROBE_0000.LAB	11/29/06	10:01:22	0.00	0.00	0.23	0.09	0.17	0.40	150.51	0.99
11X-B RUN 1 11 29 06 PRE TEST N2 TO PROBE_0001.LAB	11/29/06	10:04:00	0.00	0.00	0.20	0.07	0.04	0.32	150.51	0.99
11X-B RUN 1 11 29 06 PRE TEST N2 TO PROBE_0002BKG.LAB	11/29/06	10:06:44	0.00	0.00	0.00	0.00	0.00	0.00	149.76	0.99
11X-B RUN 1 11 29 06 PRE TEST N2 TO PROBE_0003.LAB	11/29/06	10:09:24	0.00	0.00	-0.07	0.03	-0.03	0.13	150.51	1.00
11X-B RUN 1 11 29 06 PRE TEST N2 TO PROBE_0004.LAB	11/29/06	10:12:03	0.00	0.00	-0.34	-0.04	-0.05	0.28	150.51	1.00
11X-B RUN 1 11 29 06 POST TEST CTS TO PROBE_0000.LAB	11/29/06	18:49:33	0.28	0.00	100.70	100.67	100.05	101.54	150.51	0.98
11X-B RUN 1 11 29 06 POST TEST CTS TO PROBE_0001.LAB	11/29/06	18:52:11	0.26	0.00	98.66	98.74	98.13	100.25	150.51	1.00
11X-B RUN 1 11 29 06 POST TEST CTS TO PROBE_0002.LAB	11/29/06	18:54:49	0.22	0.00	98.65	98.74	98.15	100.35	150.51	1.00
11X-B RUN 1 11 29 06 POST TEST CTS TO PROBE_0003.LAB	11/29/06	18:57:28	0.17	0.00	99.09	99.13	98.50	100.33	149.76	1.00
11X-B RUN 1 11 29 06 POST TEST CTS TO PROBE_0004.LAB	11/29/06	19:00:06	0.11	0.00	98.89	98.92	98.39	100.73	150.51	1.00
		Average			**99.20**	**99.24**	**98.64**	**100.64**		
11X-B RUN 1 11 29 06 POST TEST N2 TO PROBE_0000.LAB	11/29/06	19:04:39	0.08	0.00	-0.07	0.05	0.36	2.51	150.51	1.00
11X-B RUN 1 11 29 06 POST TEST N2 TO PROBE_0001.LAB	11/29/06	19:07:18	0.08	0.00	-0.12	-0.01	0.32	2.49	150.51	0.99
11X-B RUN 1 11 29 06 POST TEST N2 TO PROBE_0002.LAB	11/29/06	19:09:56	0.08	0.00	-0.14	-0.02	0.33	2.38	150.51	0.99
11X-B RUN 1 11 29 06 POST TEST N2 TO PROBE_0003.LAB	11/29/06	19:12:35	0.07	0.00	-0.24	-0.04	0.34	2.34	150.51	0.99
11X-B RUN 1 11 29 06 POST TEST N2 TO PROBE_0004.LAB	11/29/06	19:15:13	0.07	0.00	-0.31	-0.06	0.26	2.32	149.76	1.01

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM011840
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11X-B RUN 2 12 05 06 PRE TEST CTS TO PROBE_0000.LAB	12/5/06	9:39:20	0.11	0.00	100.82	100.06	99.82	100.50	150.51	0.94
11X-B RUN 2 12 05 06 PRE TEST CTS TO PROBE_0001.LAB	12/5/06	9:44:24	0.09	0.00	101.07	100.83	99.74	100.52	150.51	0.98
11X-B RUN 2 12 05 06 PRE TEST CTS TO PROBE_0002.LAB	12/5/06	9:47:04	0.09	0.00	99.46	99.23	98.14	98.80	150.51	1.00
11X-B RUN 2 12 05 06 PRE TEST CTS TO PROBE_0003.LAB	12/5/06	9:49:44	0.09	0.00	98.97	98.79	97.70	98.47	150.51	1.00
11X-B RUN 2 12 05 06 PRE TEST CTS TO PROBE_0004.LAB	12/5/06	9:52:24	0.09	0.00	98.99	98.93	97.77	99.00	149.76	1.00
		Average			**99.86**	**99.57**	**98.63**	**99.46**		
11X-B RUN 2 12 05 06 PRE TEST N2 TO PROBE_0000.LAB	12/5/06	10:02:51	0.08	0.00	0.33	0.11	-0.02	1.23	150.51	0.97
11X-B RUN 2 12 05 06 PRE TEST N2 TO PROBE_0001.LAB	12/5/06	10:05:31	0.08	0.00	0.27	0.09	-0.07	1.61	150.51	1.00
11X-B RUN 2 12 05 06 PRE TEST N2 TO PROBE_0002BKG.LAB	12/5/06	10:08:17	0.00	0.00	0.00	0.00	0.00	0.00	150.51	0.98
11X-B RUN 2 12 05 06 PRE TEST N2 TO PROBE_0003.LAB	12/5/06	10:10:59	0.00	0.00	0.04	0.01	0.10	-0.07	149.76	1.00
11X-B RUN 2 12 05 06 PRE TEST N2 TO PROBE_0004.LAB	12/5/06	10:13:39	0.00	0.00	0.06	-0.02	0.04	-0.16	150.51	0.99
11X-B RUN 2 12 05 06 POST TEST CTS TO PROBE_0000.LAB	12/5/06	18:27:39	-0.07	0.00	99.79	99.33	98.81	100.76	150.51	0.97
11X-B RUN 2 12 05 06 POST TEST CTS TO PROBE_0001.LAB	12/5/06	18:30:19	-0.07	0.00	97.05	96.75	96.20	98.19	150.51	1.00
11X-B RUN 2 12 05 06 POST TEST CTS TO PROBE_0002.LAB	12/5/06	18:32:59	-0.07	0.00	100.88	100.43	99.84	101.77	150.51	0.97
11X-B RUN 2 12 05 06 POST TEST CTS TO PROBE_0003.LAB	12/5/06	18:35:39	-0.08	0.00	99.17	99.07	98.22	100.06	150.51	0.99
11X-B RUN 2 12 05 06 POST TEST CTS TO PROBE_0004.LAB	12/5/06	18:38:19	-0.08	0.00	97.88	97.38	96.64	98.76	150.51	1.00
		Average			**98.95**	**98.59**	**97.94**	**99.91**		
11X-B RUN 2 12 05 06 POST TEST N2 TO PROBE_0000.LAB	12/5/06	18:42:50	-0.08	0.00	0.02	0.17	0.14	2.57	150.51	0.99
11X-B RUN 2 12 05 06 POST TEST N2 TO PROBE_0001.LAB	12/5/06	18:45:30	-0.08	0.00	0.04	0.11	0.11	2.50	150.51	1.00
11X-B RUN 2 12 05 06 POST TEST N2 TO PROBE_0002.LAB	12/5/06	18:48:10	-0.08	0.00	0.05	0.13	0.06	2.41	150.51	1.01
11X-B RUN 2 12 05 06 POST TEST N2 TO PROBE_0003.LAB	12/5/06	18:50:50	-0.08	0.00	-0.05	0.07	0.08	2.45	150.51	0.98
11X-B RUN 2 12 05 06 POST TEST N2 TO PROBE_0004.LAB	12/5/06	18:53:30	-0.08	0.00	-0.01	0.06	0.09	2.42	150.51	0.98

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM011840
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11X-B RUN 3 12 11 06 PRE TEST CTS TO PROBE_0000.LAB	12/11/06	10:10:24	0.01	0.00	98.66	98.12	97.77	97.99	150.51	1.00
11X-B RUN 3 12 11 06 PRE TEST CTS TO PROBE_0001.LAB	12/11/06	10:13:04	0.01	0.00	99.66	99.08	98.63	98.98	150.51	0.99
11X-B RUN 3 12 11 06 PRE TEST CTS TO PROBE_0002.LAB	12/11/06	10:15:43	0.01	0.00	99.42	99.04	98.56	98.99	150.51	0.99
11X-B RUN 3 12 11 06 PRE TEST CTS TO PROBE_0003.LAB	12/11/06	10:18:23	0.01	0.00	98.50	97.90	97.53	97.80	150.51	1.00
11X-B RUN 3 12 11 06 PRE TEST CTS TO PROBE_0004.LAB	12/11/06	10:21:03	0.01	0.00	98.81	98.25	97.57	97.93	150.51	1.00
		Average			**99.01**	**98.48**	**98.01**	**98.34**		
11X-B RUN 3 12 11 06 PRE TEST N2 TO PROBE_0000.LAB	12/11/06	10:25:41	0.00	0.00	0.13	0.15	0.09	1.04	150.51	0.99
11X-B RUN 3 12 11 06 PRE TEST N2 TO PROBE_0001.LAB	12/11/06	10:28:21	0.01	0.00	0.17	0.11	0.06	1.07	150.51	0.98
11X-B RUN 3 12 11 06 PRE TEST N2 TO PROBE_0002BKG.LAB	12/11/06	10:31:49	0.00	0.00	0.00	0.00	0.00	0.00	150.51	1.00
11X-B RUN 3 12 11 06 PRE TEST N2 TO PROBE_0003.LAB	12/11/06	10:34:30	0.00	0.00	-0.02	0.01	0.10	0.00	150.51	0.99
11X-B RUN 3 12 11 06 PRE TEST N2 TO PROBE_0004.LAB	12/11/06	10:37:10	0.00	0.00	-0.01	0.02	0.11	-0.02	150.51	0.99
11X-B RUN 3 12 11 06 POST TEST CTS TO PROBE_0000.LAB	12/11/06	19:07:19	0.00	0.00	96.94	97.10	96.94	99.68	150.51	1.00
11X-B RUN 3 12 11 06 POST TEST CTS TO PROBE_0001.LAB	12/11/06	19:09:58	0.00	0.00	100.15	100.26	99.90	102.99	150.51	0.97
11X-B RUN 3 12 11 06 POST TEST CTS TO PROBE_0002.LAB	12/11/06	19:12:38	0.00	0.00	101.35	101.35	100.91	104.00	150.51	0.96
11X-B RUN 3 12 11 06 POST TEST CTS TO PROBE_0003.LAB	12/11/06	19:15:18	0.00	0.00	97.37	97.49	96.93	100.06	150.51	1.01
11X-B RUN 3 12 11 06 POST TEST CTS TO PROBE_0004.LAB	12/11/06	19:17:58	0.00	0.00	99.34	99.63	99.13	101.99	150.51	0.99
		Average			**99.03**	**99.17**	**98.76**	**101.74**		
11X-B RUN 3 12 11 06 POST TEST N2 TO PROBE_0000.LAB	12/11/06	19:22:47	0.00	0.00	-0.28	0.17	0.16	3.66	150.51	0.99
11X-B RUN 3 12 11 06 POST TEST N2 TO PROBE_0001.LAB	12/11/06	19:25:27	0.00	0.00	-0.28	0.13	0.13	3.40	150.51	1.01
11X-B RUN 3 12 11 06 POST TEST N2 TO PROBE_0002.LAB	12/11/06	19:28:07	0.00	0.00	-0.27	0.16	-0.02	3.41	150.51	1.01
11X-B RUN 3 12 11 06 POST TEST N2 TO PROBE_0003.LAB	12/11/06	19:30:47	0.00	0.00	-0.21	0.09	0.02	3.55	150.51	1.01
11X-B RUN 3 12 11 06 POST TEST N2 TO PROBE_0004.LAB	12/11/06	19:33:26	-0.01	0.00	-0.18	0.09	-0.08	3.43	150.51	0.99

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM011842
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11X-F RUN 1 11 02 06 PRE TEST CTS TO PROBE_0000.LAB	11/2/06	12:24:35	0.01	0.00	99.34	99.11	98.70	98.34	150.51	1.00
11X-F RUN 1 11 02 06 PRE TEST CTS TO PROBE_0001.LAB	11/2/06	12:27:14	0.01	0.00	99.24	98.89	98.60	98.42	150.51	1.00
11X-F RUN 1 11 02 06 PRE TEST CTS TO PROBE_0002.LAB	11/2/06	12:29:53	0.01	0.00	99.51	99.03	98.64	98.50	150.51	1.00
11X-F RUN 1 11 02 06 PRE TEST CTS TO PROBE_0003.LAB	11/2/06	12:32:33	0.00	0.00	100.76	100.21	99.52	99.58	150.51	0.99
11X-F RUN 1 11 02 06 PRE TEST CTS TO PROBE_0004.LAB	11/2/06	12:35:12	0.01	0.00	100.58	100.30	99.37	99.22	150.51	0.99
		Average			**99.89**	**99.51**	**98.96**	**98.81**		
11X-F RUN 1 11 02 06 PRE TEST N2 TO PROBE_0000.LAB	11/2/06	12:08:04	0.01	0.00	-0.27	0.04	0.16	0.57	150.51	1.00
11X-F RUN 1 11 02 06 PRE TEST N2 TO PROBE_0001.LAB	11/2/06	12:10:43	0.01	0.00	-0.28	0.00	0.18	0.83	150.51	1.00
11X-F RUN 1 11 02 06 PRE TEST N2 TO PROBE_0002BKG.LAB	11/2/06	12:13:49	0.00	0.00	0.00	0.00	0.00	0.00	150.51	0.99
11X-F RUN 1 11 02 06 PRE TEST N2 TO PROBE_0003.LAB	11/2/06	12:16:30	0.00	0.00	-0.10	-0.01	0.07	-0.28	150.51	1.00
11X-F RUN 1 11 02 06 PRE TEST N2 TO PROBE_0004.LAB	11/2/06	12:19:09	0.00	0.00	-0.01	0.00	0.08	0.01	150.51	1.00
11X-F RUN 1 11 02 06 POST CTS TO PROBE_0450.LAB	11/3/06	8:49:24	0.09	0.00	100.61	99.87	98.90	100.73	150.51	0.98
11X-F RUN 1 11 02 06 POST CTS TO PROBE_0451.LAB	11/3/06	8:52:04	0.00	0.00	100.77	99.88	99.08	100.26	150.51	0.99
11X-F RUN 1 11 02 06 POST CTS TO PROBE_0452.LAB	11/3/06	8:54:43	0.00	0.00	99.51	98.56	97.87	99.02	150.51	1.00
11X-F RUN 1 11 02 06 POST CTS TO PROBE_0453.LAB	11/3/06	8:57:22	0.00	0.00	100.18	99.24	98.28	99.71	150.51	0.99
11X-F RUN 1 11 02 06 POST CTS TO PROBE_0454.LAB	11/3/06	9:00:01	0.00	0.00	100.78	99.70	98.91	100.18	150.51	0.99
		Average			**100.37**	**99.45**	**98.61**	**99.98**		
11X-F RUN 1 11 02 06 POST N2 TO PROBE_0455.LAB	11/3/06	9:06:23	-0.01	0.00	0.74	0.04	-0.40	1.70	150.51	0.99
11X-F RUN 1 11 02 06 POST N2 TO PROBE_0456.LAB	11/3/06	9:09:02	-0.01	0.00	0.59	0.01	-0.36	1.74	150.51	0.98
11X-F RUN 1 11 02 06 POST N2 TO PROBE_0457.LAB	11/3/06	9:11:41	-0.01	0.00	0.52	0.00	-0.42	1.78	150.51	0.98

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM011842
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11X-F RUN 2 11 10 06 PRE CTS TO PROBE_0000.LAB	11/10/06	11:23:28	0.08	0.01	95.95	93.16	95.25	94.93	150.51	0.92
11X-F RUN 2 11 10 06 PRE CTS TO PROBE_0002.LAB	11/10/06	11:28:47	0.01	0.00	102.66	101.41	101.55	101.04	150.51	0.92
11X-F RUN 2 11 10 06 PRE CTS TO PROBE_0003.LAB	11/10/06	11:31:26	0.01	0.00	100.88	99.59	99.82	99.48	150.51	0.93
11X-F RUN 2 11 10 06 PRE CTS TO PROBE_0004.LAB	11/10/06	11:34:05	0.01	0.00	99.64	99.60	98.83	98.92	150.51	1.02
11X-F RUN 2 11 10 06 PRE CTS TO PROBE_0005.LAB	11/10/06	11:36:45	0.01	0.00	99.60	99.26	98.43	98.70	150.51	1.02
		Average			**99.74**	**98.60**	**98.78**	**98.61**		
11X-F RUN 2 11 10 06 PRE N2 TO PROBE_0000.LAB	11/10/06	11:05:22	0.71	0.12	0.22	0.00	0.02	-1.28	150.51	0.92
11X-F RUN 2 11 10 06 PRE N2 TO PROBE_0001.LAB	11/10/06	11:08:01	0.01	0.00	0.05	-0.01	-0.01	0.29	150.51	0.95
11X-F RUN 2 11 10 06 PRE N2 TO PROBE_0002.LAB	11/10/06	11:10:40	0.01	0.00	0.05	-0.02	-0.01	0.16	150.51	0.93
11X-F RUN 2 11 10 06 PRE N2 TO PROBE_0003.LAB	11/10/06	11:13:20	0.01	0.00	-0.03	0.00	0.17	0.25	150.51	0.92
11X-F RUN 2 11 10 06 PRE N2 TO PROBE_0004.LAB	11/10/06	11:15:59	0.01	0.00	0.04	-0.03	0.05	0.10	150.51	0.93
11X-F RUN 2 11 10 06 PRE N2 TO PROBE_0005.LAB	11/10/06	11:18:38	0.95	0.17	0.14	-0.07	0.02	0.38	150.51	0.93
11X-F RUN 2 11 10 06 POST TEST CTS TO PROBE_0000.LAB	11/10/06	19:43:05	0.01	0.00	99.61	99.37	98.15	100.50	150.51	1.01
11X-F RUN 2 11 10 06 POST TEST CTS TO PROBE_0001.LAB	11/10/06	19:46:17	0.00	0.00	99.93	99.45	98.37	100.98	150.51	1.00
11X-F RUN 2 11 10 06 POST TEST CTS TO PROBE_0002.LAB	11/10/06	19:48:55	0.01	0.00	100.11	99.63	98.49	100.96	150.51	1.00
11X-F RUN 2 11 10 06 POST TEST CTS TO PROBE_0003.LAB	11/10/06	19:51:34	0.00	0.00	100.14	99.80	98.94	101.30	150.51	1.00
11X-F RUN 2 11 10 06 POST TEST CTS TO PROBE_0004.LAB	11/10/06	19:54:13	0.00	0.00	99.64	99.00	98.19	100.64	149.76	1.00
		Average			**99.89**	**99.45**	**98.43**	**100.88**		
11X-F RUN 2 11 10 06 POST TEST N2 TO PROBE_0000.LAB	11/10/06	19:57:47	0.01	0.00	0.84	0.88	0.73	3.04	150.51	1.00
11X-F RUN 2 11 10 06 POST TEST N2 TO PROBE_0001.LAB	11/10/06	20:00:26	0.00	0.00	0.18	0.04	-0.07	2.33	150.51	0.98
11X-F RUN 2 11 10 06 POST TEST N2 TO PROBE_0002.LAB	11/10/06	20:03:05	0.00	0.00	0.09	0.02	-0.09	2.31	150.51	1.01
11X-F RUN 2 11 10 06 POST TEST N2 TO PROBE_0003.LAB	11/10/06	20:05:43	0.00	0.00	0.10	0.01	-0.21	2.24	150.51	1.00

FTIR Quality Assurance Results
Intel Rio Rancho 2006 4th Quarter Monitoring

FTIR Model No.: 2030
FTIR Serial No.: MG-107-112
CTS Cylinder No.: ALM014591
CTS Cylinder Conc.: 100

ETHYLENE

Spectrum File Name	Date	Time	H_2O (%)	CO_2 (%)	Left (ppm)	Middle (ppm)	Right (ppm)	3k (ppm)	Temp (C)	Pressure (atm)
11X-F RUN 3 11 16 06 PRE TEST CTS TO PROBE_0000.LAB	11/16/06	9:16:54	0.00	0.00	99.99	100.08	99.02	98.11	150.51	1.00
11X-F RUN 3 11 16 06 PRE TEST CTS TO PROBE_0001.LAB	11/16/06	9:19:32	0.00	0.00	100.26	100.12	99.33	98.39	149.76	1.00
11X-F RUN 3 11 16 06 PRE TEST CTS TO PROBE_0002.LAB	11/16/06	9:22:10	0.00	0.00	99.79	99.63	99.06	98.34	150.51	1.00
11X-F RUN 3 11 16 06 PRE TEST CTS TO PROBE_0003.LAB	11/16/06	9:24:49	0.00	0.00	99.00	98.70	98.33	97.89	149.76	1.00
11X-F RUN 3 11 16 06 PRE TEST CTS TO PROBE_0004.LAB	11/16/06	9:27:27	0.00	0.00	99.23	98.88	98.49	97.98	150.51	1.00
		Average			**99.65**	**99.48**	**98.84**	**98.14**		
11X-F RUN 3 11 16 06 PRE TEST N2 TO PROBE_0000.LAB	11/16/06	8:58:28	0.00	0.00	-0.09	0.00	0.14	0.37	150.51	1.00
11X-F RUN 3 11 16 06 PRE TEST N2 TO PROBE_0001.LAB	11/16/06	9:01:07	0.00	0.00	-0.07	-0.02	0.10	0.38	150.51	0.99
11X-F RUN 3 11 16 06 PRE TEST N2 TO PROBE_0002BKG.LAB	11/16/06	9:04:56	0.00	0.00	0.00	0.00	0.00	0.00	150.51	1.01
11X-F RUN 3 11 16 06 PRE TEST N2 TO PROBE_0003.LAB	11/16/06	9:07:36	0.00	0.00	-0.05	-0.01	0.06	-0.06	150.51	1.01
11X-F RUN 3 11 16 06 PRE TEST N2 TO PROBE_0004.LAB	11/16/06	9:10:14	0.00	0.00	0.03	-0.01	0.00	0.07	150.51	1.00
11X-F RUN 3 11 16 06 POST TEST CTS TO PROBE_0000.LAB	11/16/06	17:41:08	0.02	0.00	100.38	100.07	100.42	103.16	150.51	0.99
11X-F RUN 3 11 16 06 POST TEST CTS TO PROBE_0001.LAB	11/16/06	17:43:47	0.02	0.00	99.20	99.15	99.71	101.99	150.51	1.00
11X-F RUN 3 11 16 06 POST TEST CTS TO PROBE_0002.LAB	11/16/06	17:46:26	0.02	0.00	99.26	99.00	99.45	101.88	150.51	1.00
11X-F RUN 3 11 16 06 POST TEST CTS TO PROBE_0003.LAB	11/16/06	17:49:04	0.02	0.00	99.06	98.92	99.29	101.77	150.51	1.01
11X-F RUN 3 11 16 06 POST TEST CTS TO PROBE_0004.LAB	11/16/06	17:51:43	0.02	0.00	99.52	99.40	99.89	102.53	150.51	1.00
		Average			**99.48**	**99.31**	**99.75**	**102.27**		
11X-F RUN 3 11 16 06 POST TEST N2 TO PROBE_0000.LAB	11/16/06	17:57:15	0.01	0.00	0.02	0.02	0.99	4.31	150.51	1.00
11X-F RUN 3 11 16 06 POST TEST N2 TO PROBE_0001.LAB	11/16/06	17:59:54	0.01	0.00	-0.19	-0.06	0.85	4.16	150.51	1.00
11X-F RUN 3 11 16 06 POST TEST N2 TO PROBE_0002.LAB	11/16/06	18:02:32	0.01	0.00	-0.19	-0.04	0.79	4.09	150.51	1.00

APPENDIX C-3
FT-IR Detection Limits

RTO FTIR Detection Limit Results
INTEL RIO RANCHO Q4 2006 VOC MONITORING

FTIR: MKS On-Line Model 2030
Serial No. 112

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBAUC (ppm)	H_2O (%)	CO_2 (%)	Temp (oC)	Press. (Atm)
11X-B RUN 3 08 08 06 SAMPLE_0256 abs.lab	08/08/06	6:45	0	0	0	0	0	0	0	0	0	0	0	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0257 abs.lab	08/08/06	6:48	-0.189954	-0.159826	0.26198	0.334593	0.518278	-0.128232	0.072952	0.124662	0.092589	0.002894	-0.000746	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0258 abs.lab	08/08/06	6:50	-0.254143	-0.401193	0.384687	0.182775	0.194084	-0.035579	0.088075	0.30299	0.108461	0.012731	0.000313	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0259 abs.lab	08/08/06	6:53	-0.123734	-0.682778	0.35612	0.092	-0.15037	0.141638	0.070129	0.390878	0.101783	0.016105	0.000309	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0260 abs.lab	08/08/06	6:56	-0.230856	-0.168305	0.35008	0.118517	0.26505	0.121678	0.086271	0.282386	0.130291	0.010997	-0.0002	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0261 abs.lab	08/08/06	6:58	-0.209001	-0.454819	0.280593	0.303689	0.062001	0.082001	0.076471	0.426997	0.0979	0.014624	0.000789	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0262 abs.lab	08/08/06	7:01	-0.106226	-0.471449	0.475644	0.151234	-0.007209	-0.060822	0.055876	0.272588	0.113359	0.015548	0.000271	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0263 abs.lab	08/08/06	7:04	0.004163	-0.417532	0.261774	0.086811	-0.14569	-0.07133	0.037882	0.174876	0.088494	0.013739	-0.000906	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0264 abs.lab	08/08/06	7:06	0.064142	-0.396041	0.203974	0.020754	-0.135359	0.048972	0.031407	0.137406	0.049118	0.013635	-0.001111	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0265 abs.lab	08/08/06	7:09	-0.072986	-0.263625	0.284302	0.108449	-0.318612	0.020803	0.034759	0.28393	0.073159	0.013363	-0.001186	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0266 abs.lab	08/08/06	7:12	-0.179273	-0.117485	0.286582	0.346772	0.157217	0.193958	0.058192	0.212391	0.105825	0.006559	-0.001691	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0267 abs.lab	08/08/06	7:14	-0.188419	-0.233315	0.125341	0.305827	0.058149	0.02623	0.055395	0.135497	0.153163	0.001413	-0.004228	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0268 abs.lab	08/08/06	7:17	-0.007192	-0.060486	0.191438	0.196758	-0.238644	0.108984	0.042542	0.097852	0.075526	0.01592	-0.000672	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0269 abs.lab	08/08/06	7:20	-0.08839	-0.138667	0.007466	0.101631	-0.137766	0.011188	0.025271	0.241368	0.089255	0.011572	-0.003791	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0270 abs.lab	08/08/06	7:22	-0.225604	-0.216382	0.189179	0.267192	0.083865	0.036713	0.05347	0.21341	0.131988	0.008964	-0.004024	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0271 abs.lab	08/08/06	7:25	-0.230922	0.167399	0.164935	0.578532	0.432502	0.042827	0.085013	0.000421	0.133033	0.002336	-0.005234	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0272 abs.lab	08/08/06	7:28	-0.214829	0.041236	0.09097	0.296558	0.321285	0.068637	0.066998	0.339575	0.098348	0.00634	-0.005171	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0273 abs.lab	08/08/06	7:30	-0.101084	-0.057748	0.195539	0.11271	0.010315	0.043804	0.054966	0.256668	0.146846	0.008302	-0.005591	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0274 abs.lab	08/08/06	7:33	-0.137218	-0.135033	0.025328	0.33072	0.151679	0.125906	0.042963	0.24687	0.14423	0.008973	-0.004945	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0275 abs.lab	08/08/06	7:36	-0.228361	-0.043438	-0.080363	0.341681	0.54854	0.114532	0.073593	0.090538	0.15631	0.004353	-0.005444	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0276 abs.lab	08/08/06	7:38	-0.148456	0.219162	0.075882	0.588188	0.817097	0.002583	0.07652	-0.072501	0.166851	0.000776	-0.006214	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0277 abs.lab	08/08/06	7:41	-0.31639	0.448579	-0.107974	0.376896	0.713883	0.051314	0.067696	0.112777	0.165815	0.005086	-0.006098	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0278 abs.lab	08/08/06	7:44	-0.165555	0.430227	-0.113397	0.249192	0.357331	0.0966	0.05379	0.0311	0.116768	0.003169	-0.0058	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0279 abs.lab	08/08/06	7:46	-0.296056	0.285579	-0.142904	0.385438	0.513998	-0.054077	0.060803	0.120912	0.157344	0.006992	-0.005959	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0280 abs.lab	08/08/06	7:49	-0.209745	0.366266	-0.200966	0.775096	0.839439	-0.101559	0.07788	-0.136317	0.164602	0.00451	-0.005773	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0281 abs.lab	08/08/06	7:52	-0.118982	0.488635	-0.072432	0.699256	0.978893	-0.130595	0.076352	-0.157923	0.126902	0.005943	-0.005693	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0282 abs.lab	08/08/06	7:54	-0.145767	0.437087	-0.141439	0.70404	0.807864	0.029705	0.066418	-0.143965	0.137954	0.004534	-0.005796	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0283 abs.lab	08/08/06	7:57	-0.256266	0.4628	0.059138	0.544379	0.615596	-0.017701	0.070288	-0.025907	0.176425	0.007824	-0.00534	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0284 abs.lab	08/08/06	8:00	-0.241323	0.369512	-0.015388	0.346302	0.360514	-0.162229	0.02984	0.13003	0.151388	0.012693	-0.003887	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0285 abs.lab	08/08/06	8:02	-0.198837	0.435387	-0.238969	0.635144	0.589788	0.051918	0.064771	-0.099	0.103025	0.005738	-0.00456	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0286 abs.lab	08/08/06	8:05	-0.214844	0.606275	-0.158187	0.612697	0.949349	0.031913	0.054032	-0.106632	0.142917	0.006483	-0.003786	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0287 abs.lab	08/08/06	8:08	-0.011609	0.469008	-0.09053	0.661167	0.764844	-0.195702	0.042099	-0.354032	0.135817	0.002993	-0.006118	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0288 abs.lab	08/08/06	8:10	-0.207477	0.475307	0.036257	0.600081	0.725536	-0.030488	0.037248	-0.090064	0.157221	0.006622	-0.004482	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0289 abs.lab	08/08/06	8:13	0.001953	0.65721	-0.444814	0.673981	0.700491	-0.016215	0.051658	-0.372824	0.137388	0.001286	-0.005818	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0290 abs.lab	08/08/06	8:15	0.001676	0.51324	-0.344286	0.717051	0.789271	0.001484	0.044704	-0.333544	0.110467	0.004302	-0.004054	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0291 abs.lab	08/08/06	8:18	0.084275	0.211188	-0.480242	0.740688	0.645336	-0.150376	0.036668	-0.553699	0.160422	-0.000383	-0.006003	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0292 abs.lab	08/08/06	8:21	0.178069	0.337421	-0.397549	0.721912	0.706974	-0.078771	0.04945	-0.468646	0.136772	-0.00119	-0.007079	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0293 abs.lab	08/08/06	8:23	-0.108018	0.523681	-0.307858	0.709867	0.600745	-0.07492	0.040424	-0.292731	0.165544	0.003984	-0.005424	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0294 abs.lab	08/08/06	8:26	-0.007526	0.76159	-0.416861	0.779497	0.755265	-0.028832	0.069264	-0.34348	0.148405	0.007603	-0.003812	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0295 abs.lab	08/08/06	8:29	0.108287	0.483374	-0.428561	0.621181	0.680365	-0.027159	0.046697	-0.540055	0.157652	0.007978	-0.004074	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0296 abs.lab	08/08/06	8:31	0.105172	0.618645	-0.508098	0.653753	0.719067	-0.133671	0.046751	-0.38019	0.133302	0.007759	-0.001776	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0297 abs.lab	08/08/06	8:34	0.151415	0.546748	-0.560775	0.6596	0.59056	0.040226	0.041424	-0.480688	0.163938	0.009752	-0.002042	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0298 abs.lab	08/08/06	8:37	0.05177	0.582339	-0.364307	0.795626	0.577113	-0.046925	0.047706	-0.522322	0.165717	0.009251	-0.003097	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0299 abs.lab	08/08/06	8:39	0.142551	0.434269	-0.515836	0.661102	0.570103	-0.1977	0.044867	-0.513538	0.177723	0.009049	-0.001562	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0300 abs.lab	08/08/06	8:42	0.228898	0.087869	-0.643308	0.643142	0.644213	-0.00886	0.040412	-0.579672	0.115823	0.006857	-0.003339	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0301 abs.lab	08/08/06	8:45	0.185213	-0.006586	-0.615959	0.653687	0.626373	-0.033537	0.040337	-0.624843	0.139799	0.007047	-0.0034	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0302 abs.lab	08/08/06	8:47	0.279087	-0.32529	-0.63523	0.644106	0.647488	0.073041	0.027617	-0.595196	0.167137	0.003206	-0.005237	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0303 abs.lab	08/08/06	8:50	0.319743	0.107414	-0.758005	0.787826	0.503765	-0.010639	0.018453	-0.517593	0.18422	0.003107	-0.005702	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0304 abs.lab	08/08/06	8:53	0.253994	-0.057999	-0.814242	0.396797	0.884868	-0.007996	0.034453	-0.507748	0.122931	0.007457	-0.004591	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0305 abs.lab	08/08/06	8:55	0.372445	-0.250879	-0.542149	0.204467	1.021618	0.178107	0.024496	-0.16207	0.028153	0.00957	-0.004757	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0306 abs.lab	08/08/06	8:58	0.335381	-0.325246	-0.424663	-0.183951	1.062854	0.163882	0.021657	0.05505	0.029406	0.007596	-0.005039	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0307 abs.lab	08/08/06	9:01	0.31752	-0.310237	-0.262192	-0.060672	1.036372	0.087948	0.023294	0.19942	0.006256	0.003733	-0.005634	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0308 abs.lab	08/08/06	9:03	0.353333	-0.223536	-0.447411	0.070879	1.372964	0.227024	0.032404	0.143562	-0.000858	0.006804	-0.005623	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0309 abs.lab	08/08/06	9:06	0.409059	-0.331741	-0.379677	-0.071823	1.146421	0.030851	0.038468	0.054864	0.024949	0.00718	-0.004129	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0310 abs.lab	08/08/06	9:09	0.198004	-0.119664	-0.233072	-0.289515	1.200773	0.239978	0.023079	0.434394	-0.000688	0.006873	-0.004676	150.509811	0.819706

RTO FTIR Detection Limit Results
INTEL RIO RANCHO Q4 2006 VOC MONITORING

FTIR: MKS On-Line Model 2030
Serial No. 112

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBAUC (ppm)	H_2O (%)	CO_2 (%)	Temp (oC)	Press. (Atm)
11X-B RUN 3 08 08 06 SAMPLE_0311 abs.lab	08/08/06	9:11	0.235194	0.033411	-0.121295	-0.104274	1.317544	0.281902	0.021925	0.29657	0.03536	0.005747	-0.003584	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0312 abs.lab	08/08/06	9:14	0.233338	-0.068356	0.110971	-0.538093	1.019384	0.18027	0.036027	0.652786	0.009456	0.006225	-0.003923	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0313 abs.lab	08/08/06	9:17	0.325864	-0.066666	-0.454844	-0.224614	1.111106	0.181106	0.054758	0.277993	-0.009393	0.006901	-0.004375	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0314 abs.lab	08/08/06	9:19	0.211714	0.085461	-0.14262	-0.028432	1.155197	0.151179	0.03499	0.367901	0.030722	0.006678	-0.005331	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0315 abs.lab	08/08/06	9:22	0.24187	-0.51196	-0.616864	-0.183337	0.969031	0.01145	0.056136	0.147381	0.021877	0.008501	-0.002485	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0316 abs.lab	08/08/06	9:25	0.280216	-0.530649	-0.124826	0.082351	1.136143	0.205614	0.043589	0.478964	0.005402	0.012412	-0.003512	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0317 abs.lab	08/08/06	9:27	0.233653	-0.05964	-0.020412	-0.243671	1.009301	0.199711	0.037641	0.305454	0.029525	0.010904	-0.003324	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0318 abs.lab	08/08/06	9:30	0.255095	-0.279947	-0.251743	-0.14145	1.326095	0.242837	0.030789	0.453335	-0.046135	0.011053	-0.004336	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0319 abs.lab	08/08/06	9:33	0.186565	-0.135512	-0.085151	-0.343889	1.300352	0.15993	0.013774	0.539735	0.029445	0.010809	-0.006899	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0320 abs.lab	08/08/06	9:35	0.311301	-0.265481	-0.445074	-0.098121	0.919243	0.139057	0.034659	0.048387	0.001396	0.010376	-0.002805	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0321 abs.lab	08/08/06	9:38	0.292475	-0.468528	-0.293742	-0.122789	1.088124	0.149052	0.037751	0.167893	0.032777	0.012802	-0.003247	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0322 abs.lab	08/08/06	9:41	0.281413	-0.241635	-0.565212	-0.008995	0.928265	0.137552	0.044741	0.115568	0.033769	0.015231	-0.001594	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0323 abs.lab	08/08/06	9:43	0.157717	-0.179156	-0.324864	-0.107607	1.130041	0.223331	0.031843	0.326827	0.033469	0.018219	-0.003192	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0324 abs.lab	08/08/06	9:46	0.256838	-0.227118	-0.259461	-0.155234	1.181588	0.053881	0.01301	0.478951	0.008526	0.020679	-0.003123	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0325 abs.lab	08/08/06	9:49	0.188491	-0.198992	0.020736	-0.192602	1.044396	0.023993	0.000635	0.422478	0.0173	0.021754	-0.004162	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0326 abs.lab	08/08/06	9:51	0.211226	-0.308085	0.007981	-0.258718	0.826653	0.253392	-0.013291	0.471415	0.029404	0.021212	-0.004252	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0327 abs.lab	08/08/06	9:54	0.266695	-0.142129	-0.164371	-0.339716	1.013412	0.229146	-0.000078	0.318551	0.029772	0.019506	-0.003196	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0328 abs.lab	08/08/06	9:57	0.284616	-0.289717	-0.231073	-0.181381	0.910471	0.197156	0.010605	0.362565	0.039777	0.019079	-0.004619	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0329 abs.lab	08/08/06	9:59	0.186238	-0.376551	0.132557	-0.470337	1.090522	0.218066	-0.0124	0.405648	0.060959	0.020257	-0.003373	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0330 abs.lab	08/08/06	10:02	0.019098	0.148043	0.219487	-0.21492	0.899959	0.136313	0.005784	0.27262	0.074009	0.026115	-0.00473	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0331 abs.lab	08/08/06	10:05	-0.121748	0.101704	0.3874	-0.431589	0.832404	0.14292	-0.007593	0.182846	0.155648	0.028728	-0.004956	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0332 abs.lab	08/08/06	10:07	-0.078133	0.127146	0.148926	-0.492655	0.913567	0.100302	-0.008196	0.252921	0.119514	0.029395	-0.00448	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0333 abs.lab	08/08/06	10:10	-0.036087	-0.011411	0.582026	-0.473322	0.509821	0.239115	-0.0269	0.29845	0.104288	0.029496	-0.003575	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0334 abs.lab	08/08/06	10:13	-0.07798	0.197608	0.279379	-0.366057	0.722018	0.300032	-0.01283	0.381123	0.07341	0.030131	-0.004294	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0335 abs.lab	08/08/06	10:15	0.017449	-0.043694	0.260269	-0.413072	0.738726	0.256781	0.004921	0.44253	0.048696	0.026104	-0.004532	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0336 abs.lab	08/08/06	10:18	0.173615	-0.171097	-0.099193	-0.064567	0.871669	0.112758	0.03111	0.3957	0.02772	0.024345	-0.002966	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0337 abs.lab	08/08/06	10:21	0.13921	-0.339814	0.0759	-0.162649	0.760513	0.417659	0.019813	0.486039	0.055759	0.028193	-0.002631	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0338 abs.lab	08/08/06	10:23	0.028669	-0.104018	-0.017491	-0.166584	0.951689	0.244621	0.008954	0.224307	0.056899	0.033712	-0.002442	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0339 abs.lab	08/08/06	10:26	-0.062428	0.020252	0.354278	-0.418106	0.567498	0.289335	0.002704	0.407911	0.081431	0.034774	-0.001372	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0340 abs.lab	08/08/06	10:28	-0.022671	0.023176	0.26206	-0.326257	0.73983	-0.001163	-0.008139	0.354859	0.081085	0.035965	-0.002407	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0341 abs.lab	08/08/06	10:31	0.017936	-0.368472	0.244993	-0.216355	0.391564	0.124114	-0.021096	0.273713	0.087449	0.035521	-0.00133	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0342 abs.lab	08/08/06	10:34	-0.030533	-0.213999	0.569848	-0.329965	0.874723	0.117064	-0.020282	0.253873	0.088645	0.034293	-0.002283	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0343 abs.lab	08/08/06	10:36	0.045184	-0.24866	0.167436	-0.512911	0.635331	0.17244	-0.001695	0.529356	0.04846	0.029965	-0.002292	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0344 abs.lab	08/08/06	10:39	0.148413	-0.159167	0.050534	-0.358548	0.553776	0.162373	0.01878	0.436799	-0.00976	0.032506	-0.003286	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0345 abs.lab	08/08/06	10:42	-0.011191	-0.080854	0.224961	-0.366914	0.705482	0.120104	0.007908	0.38411	0.102173	0.035102	-0.003683	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0346 abs.lab	08/08/06	10:44	-0.106453	-0.018376	0.307594	-0.622943	0.752202	0.095287	-0.004947	0.389369	0.09042	0.036484	-0.001938	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0347 abs.lab	08/08/06	10:47	-0.131568	-0.10245	0.522398	-0.582345	0.521294	0.050052	-0.01713	0.417755	0.120481	0.039623	-0.000694	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0348 abs.lab	08/08/06	10:50	-0.096587	-0.240926	0.3789	-0.467326	0.585072	0.183488	-0.014821	0.36996	0.100674	0.040325	0.000293	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0349 abs.lab	08/08/06	10:52	-0.100778	-0.059401	0.353522	-0.496204	0.583267	0.086315	-0.004507	0.230511	0.124826	0.039616	-0.000037	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0350 abs.lab	08/08/06	10:55	-0.094036	-0.489585	0.216358	-0.653543	0.492828	0.095758	0.000284	0.143829	0.120228	0.036393	0.000463	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0351 abs.lab	08/08/06	10:58	-0.154777	-0.227626	0.422802	-0.404443	0.193724	0.218468	-0.012011	0.227974	0.124877	0.036026	-0.000443	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0352 abs.lab	08/08/06	11:00	-0.119241	-0.172748	0.231746	-0.362987	0.723655	0.190659	0.002182	0.365446	0.068602	0.03586	-0.000228	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0353 abs.lab	08/08/06	11:03	-0.180945	-0.158414	0.2031	-0.310875	0.84512	0.196327	0.006385	0.309253	0.122084	0.036738	-0.000343	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0354 abs.lab	08/08/06	11:06	-0.131342	-0.234066	0.221839	-0.20249	0.609768	0.179715	0.003235	0.220394	0.126384	0.037756	-0.000882	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0355 abs.lab	08/08/06	11:08	-0.278054	-0.073778	0.102742	-0.33255	0.903455	-0.01859	-0.000623	0.132589	0.113522	0.040029	-0.001915	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0356 abs.lab	08/08/06	11:11	-0.1999	0.031382	0.147333	-0.264698	0.762879	-0.02618	0.023339	0.224971	0.069669	0.037768	-0.000855	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0357 abs.lab	08/08/06	11:14	-0.324112	-0.204832	0.030767	-0.24483	0.682437	0.125699	-0.004912	0.245006	0.156707	0.038218	-0.001786	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0358 abs.lab	08/08/06	11:16	-0.331517	0.084058	-0.07953	-0.223641	0.90045	0.292458	0.006977	0.261261	0.07712	0.0378	-0.003047	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0359 abs.lab	08/08/06	11:19	-0.225148	-0.004377	0.256368	-0.186322	0.648072	0.058832	-0.010055	0.201715	0.15157	0.039863	-0.001154	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0360 abs.lab	08/08/06	11:22	-0.356021	0.113324	-0.215537	-0.294644	0.740388	0.095804	0.030634	0.272163	0.059254	0.033235	-0.003029	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0361 abs.lab	08/08/06	11:24	-0.288965	0.164026	-0.199681	-0.324784	0.817907	-0.074021	-0.00374	0.223063	0.123956	0.035553	-0.00142	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0362 abs.lab	08/08/06	11:27	-0.293693	0.220666	-0.159486	-0.005462	0.85314	0.26402	0.018729	0.23161	0.084528	0.037098	-0.001871	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0363 abs.lab	08/08/06	11:30	-0.275204	-0.168969	-0.205461	-0.303834	0.768268	0.177825	0.031508	0.230676	0.083414	0.03208	-0.001999	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0364 abs.lab	08/08/06	11:32	-0.344028	0.03301	-0.344913	-0.015812	0.910395	0.062774	0.047428	0.465155	0.043724	0.033815	-0.002242	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0365 abs.lab	08/08/06	11:35	-0.244584	0.045153	-0.19088	-0.057134	0.591614	0.033163	0.041074	0.360659	0.054985	0.033265	-0.003706	150.509811	0.819706

RTO FTIR Detection Limit Results
INTEL RIO RANCHO Q4 2006 VOC MONITORING

FTIR: MKS On-Line Model 2030
Serial No. 112

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBAUC (ppm)	H_2O (%)	CO_2 (%)	Temp (oC)	Press. (Atm)
11X-B RUN 3 08 08 06 SAMPLE_0366 abs.lab	08/08/06	11:38	-0.268823	-0.343421	-0.360188	0.007982	0.264914	0.020405	0.025479	0.365032	0.081572	0.023042	-0.004064	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0367 abs.lab	08/08/06	11:40	-0.392165	-0.160216	-0.308422	0.124021	0.482725	0.087458	0.044556	0.642469	0.052497	0.024828	-0.00462	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0368 abs.lab	08/08/06	11:43	-0.275992	0.277998	-0.419741	-0.198056	0.388215	0.244008	0.035364	0.502936	0.042424	0.02786	-0.003685	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0369 abs.lab	08/08/06	11:46	-0.207846	-0.085093	-0.483193	-0.002475	0.133969	0.085408	0.037321	0.430487	0.034648	0.02162	-0.004267	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0370 abs.lab	08/08/06	11:48	-0.269168	-0.221885	-0.493281	-0.008678	0.019575	-0.03887	0.042235	0.482001	0.003145	0.023707	-0.003245	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0371 abs.lab	08/08/06	11:51	-0.176973	-0.173991	-0.486143	0.106408	-0.38334	0.046868	0.025128	0.348023	0.066717	0.013365	-0.003755	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0372 abs.lab	08/08/06	11:54	-0.039748	-0.296169	-0.568301	0.06672	-0.996048	-0.273058	0.005936	0.007594	0.073454	0.00025	-0.006717	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0373 abs.lab	08/08/06	11:56	-0.113107	-0.289198	-0.483302	0.219396	-0.788459	-0.261767	0.004434	0.269103	0.061047	0.006685	-0.00489	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0374 abs.lab	08/08/06	11:59	-0.113647	-0.675042	-0.282943	-0.182806	-0.417509	-0.16397	0.018677	0.435878	0.046404	0.00942	-0.00314	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0375 abs.lab	08/08/06	12:02	-0.179768	-0.278367	-0.352523	-0.029612	-0.404924	-0.105228	0.022776	0.376262	0.047376	0.019584	-0.00346	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0376 abs.lab	08/08/06	12:04	-0.039485	-0.533044	-0.389333	-0.046828	-1.053262	-0.184098	0.009491	0.144779	0.067677	0.006049	-0.005869	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0377 abs.lab	08/08/06	12:07	-0.004867	-0.44491	-0.63566	0.016877	-1.190921	-0.191397	0.019132	0.141015	0.057514	0.00133	-0.006064	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0378 abs.lab	08/08/06	12:10	-0.190423	-0.505549	-0.537358	-0.059588	-0.482591	-0.013097	0.024038	0.514509	0.009703	0.013288	-0.003052	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0379 abs.lab	08/08/06	12:12	-0.125218	-0.362279	-0.503871	-0.213227	-0.710946	-0.044785	0.034431	0.395133	0.000084	0.010916	-0.00419	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0380 abs.lab	08/08/06	12:15	-0.236092	-0.635042	-0.632215	-0.185024	-0.355459	-0.057581	0.047164	0.377413	0.02491	0.013066	-0.003932	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0381 abs.lab	08/08/06	12:18	-0.262031	-0.493266	-0.391945	-0.199675	-0.062241	-0.043419	0.044484	0.616002	0.016907	0.017607	-0.003698	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0382 abs.lab	08/08/06	12:20	-0.231741	-0.246799	-0.258348	-0.106939	0.211751	-0.029153	0.027371	0.465468	0.041906	0.023492	-0.003362	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0383 abs.lab	08/08/06	12:23	-0.290658	-0.252647	-0.426528	-0.117089	0.322174	0.013998	0.043208	0.403973	0.016883	0.027091	-0.003067	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0384 abs.lab	08/08/06	12:26	-0.373478	-0.092256	-0.21996	0.137715	0.569211	0.172039	0.031463	0.495649	0.004422	0.034487	-0.003146	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0385 abs.lab	08/08/06	12:28	-0.324605	-0.03349	-0.147567	-0.031404	0.600534	0.156202	0.034082	0.453447	-0.016791	0.032023	-0.004312	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0386 abs.lab	08/08/06	12:31	-0.320368	-0.442565	-0.457702	-0.183081	0.357672	0.028663	0.03898	0.572419	-0.010068	0.021318	-0.005734	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0387 abs.lab	08/08/06	12:34	-0.256934	-0.313337	0.087512	-0.094311	0.607504	-0.018327	0.015576	0.325708	0.088695	0.034826	-0.003859	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0388 abs.lab	08/08/06	12:36	-0.247189	-0.141468	-0.220194	-0.041554	0.652537	0.125061	0.045257	0.436626	-0.004641	0.030454	-0.005093	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0389 abs.lab	08/08/06	12:39	-0.259386	-0.107424	-0.114431	0.090076	0.411416	-0.017183	0.03284	0.387046	0.045039	0.029652	-0.004832	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0390 abs.lab	08/08/06	12:42	-0.208173	-0.495823	0.331939	-0.130932	0.511497	0.119809	-0.001154	0.212461	0.108755	0.037082	-0.002636	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0391 abs.lab	08/08/06	12:44	-0.111504	-0.512003	0.295267	-0.240005	0.397138	0.11374	-0.001488	0.278757	0.079514	0.035032	-0.00171	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0392 abs.lab	08/08/06	12:47	-0.223271	-0.472205	0.276331	-0.064773	0.545171	0.058836	0.002818	0.177796	0.096305	0.037133	-0.004244	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0393 abs.lab	08/08/06	12:50	-0.275031	-0.393994	0.191606	-0.126137	0.406556	0.123296	-0.001734	0.420831	0.060604	0.031526	-0.003665	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0394 abs.lab	08/08/06	12:52	-0.128111	-0.5345	0.398765	-0.441397	0.474009	0.07205	-0.001372	0.420132	0.062311	0.03016	-0.003709	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0395 abs.lab	08/08/06	12:55	-0.190048	-0.285975	0.142711	-0.182469	0.44227	0.054065	0.006522	0.3102	0.074872	0.032624	-0.004848	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0396 abs.lab	08/08/06	12:58	-0.297812	-0.378509	0.015205	0.060618	0.606985	-0.068273	0.000045	0.413673	0.05052	0.026138	-0.006092	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0397 abs.lab	08/08/06	13:00	-0.181301	-0.132252	0.061878	-0.2895	0.643015	0.028316	0.010591	0.203449	0.050945	0.029718	-0.004679	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0398 abs.lab	08/08/06	13:03	-0.29884	-0.37646	0.122937	0.02327	0.610268	0.114326	-0.02419	0.226425	0.100554	0.031056	-0.00497	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0399 abs.lab	08/08/06	13:06	-0.272801	-0.281487	0.102402	0.057626	0.414293	0.058155	-0.005622	0.263033	0.077956	0.030894	-0.004894	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0400 abs.lab	08/08/06	13:08	-0.312313	-0.172969	0.000496	0.108793	0.62452	0.104043	0.020067	0.376746	0.072034	0.02699	-0.005421	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0401 abs.lab	08/08/06	13:11	-0.27686	-0.235407	-0.151731	-0.265899	0.532446	0.047736	0.012559	0.226211	0.087035	0.029553	-0.006336	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0402 abs.lab	08/08/06	13:14	-0.243708	-0.09994	0.145317	-0.329291	0.518019	0.333034	0.021723	0.247718	0.065244	0.029837	-0.005495	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0403 abs.lab	08/08/06	13:16	-0.27021	-0.224778	0.176158	0.014242	0.495756	0.060608	-0.001109	0.175795	0.08472	0.02908	-0.005184	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0404 abs.lab	08/08/06	13:19	-0.274464	-0.379709	0.220992	-0.131704	0.410409	0.045834	0.005709	0.316848	0.073625	0.022975	-0.004935	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0405 abs.lab	08/08/06	13:22	-0.257486	-0.240012	0.245261	-0.096189	0.519406	0.019965	-0.024379	0.146947	0.085329	0.028106	-0.00549	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0406 abs.lab	08/08/06	13:24	-0.284134	-0.199817	0.107617	-0.269365	0.48887	0.090001	0.00171	0.319643	0.064074	0.029512	-0.003831	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0407 abs.lab	08/08/06	13:27	-0.255698	-0.335157	0.098479	-0.061445	0.426369	0.178885	0.005673	0.206249	0.103456	0.028787	-0.003894	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0408 abs.lab	08/08/06	13:30	-0.394646	-0.145805	-0.158136	0.011805	0.441177	-0.002571	0.034575	0.355959	0.042595	0.025458	-0.005811	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0409 abs.lab	08/08/06	13:32	-0.355558	-0.129298	-0.227326	0.07185	0.635248	0.259719	0.013444	0.38176	0.014902	0.02523	-0.00548	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0410 abs.lab	08/08/06	13:35	-0.250921	-0.171242	-0.126038	-0.058996	0.269629	0.110146	0.021609	0.440583	-0.034818	0.019214	-0.005321	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0411 abs.lab	08/08/06	13:38	-0.353152	-0.316029	-0.197367	-0.188362	-0.025697	0.127944	0.024014	0.387625	0.000545	0.017205	-0.006233	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0412 abs.lab	08/08/06	13:40	-0.205551	-0.213733	-0.053755	-0.178902	0.531488	0.143025	-0.000577	0.393086	0.078533	0.029428	-0.004765	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0413 abs.lab	08/08/06	13:43	-0.368507	-0.448814	-0.27348	0.036714	0.409012	0.229514	0.029039	0.514601	-0.007413	0.017364	-0.00534	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0414 abs.lab	08/08/06	13:46	-0.325166	0.193659	-0.255451	0.018006	0.523241	0.110853	0.046496	0.414385	0.020217	0.025934	-0.004858	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0415 abs.lab	08/08/06	13:48	-0.312472	-0.350291	-0.298012	-0.062693	0.4393	0.068353	0.041833	0.408663	0.008578	0.018912	-0.005805	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0416 abs.lab	08/08/06	13:51	-0.252927	-0.403749	0.116116	-0.116536	0.316283	0.200614	0.001356	0.175846	0.065103	0.027755	-0.005006	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0417 abs.lab	08/08/06	13:54	-0.070359	-0.248807	0.044052	-0.130042	0.086254	0.102852	0.020429	0.319432	0.07269	0.028205	-0.004509	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0418 abs.lab	08/08/06	13:56	-0.136504	-0.4007	0.361943	-0.336519	0.075142	0.050838	0.01607	0.360157	0.043601	0.028214	-0.005323	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0419 abs.lab	08/08/06	13:59	0.032415	-0.839062	0.357828	-0.387473	0.149285	0.09448	0.033765	0.489551	0.035649	0.022174	-0.003107	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0420 abs.lab	08/08/06	14:02	-0.017609	-0.724227	0.271854	-0.384326	0.038081	0.13114	0.020667	0.387848	0.046254	0.021659	-0.003414	150.509811	0.819706

RTO FTIR Detection Limit Results
INTEL RIO RANCHO Q4 2006 VOC MONITORING

FTIR: MKS On-Line Model 2030
Serial No. 112

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBAUC (ppm)	H_2O (%)	CO_2 (%)	Temp (oC)	Press. (Atm)
11X-B RUN 3 08 08 06 SAMPLE_0421 abs.lab	08/08/06	14:04	0.206677	-0.75756	0.062518	-0.466902	0.293426	0.1834	0.035356	0.539213	-0.041174	0.015615	-0.00179	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0422 abs.lab	08/08/06	14:07	0.158128	-0.705106	0.172815	-0.593113	0.128656	0.207849	0.043156	0.700735	-0.072048	0.011199	-0.003873	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0423 abs.lab	08/08/06	14:10	0.29554	-1.214349	-0.358611	-0.218699	0.253196	0.101636	0.077712	0.396561	-0.084063	0.007616	-0.002856	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0424 abs.lab	08/08/06	14:12	0.342932	-0.977805	-0.291646	-0.311093	0.320171	0.253115	0.07006	0.555618	-0.084088	0.005773	-0.00515	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0425 abs.lab	08/08/06	14:15	0.272225	-0.857317	-0.234384	-0.217486	0.20298	0.199167	0.076664	0.455989	-0.069757	0.00272	-0.004068	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0426 abs.lab	08/08/06	14:18	0.39238	-1.192121	-0.743006	0.157903	0.011696	-0.098726	0.076693	-0.147102	-0.019779	0.002732	-0.002354	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0427 abs.lab	08/08/06	14:20	0.331576	-0.946046	-0.531308	0.18516	-0.126352	-0.117201	0.08079	-0.046302	-0.001912	0.002056	-0.004256	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0428 abs.lab	08/08/06	14:32	0.282389	-0.894048	-0.298069	0.063483	0.20529	-0.054675	0.05194	0.155679	-0.037422	-0.00237	-0.006598	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0429 abs.lab	08/08/06	14:35	0.336109	-0.964861	-0.241608	0.052137	0.421553	0.159018	0.061134	0.204151	-0.056591	-0.004377	-0.005524	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0430 abs.lab	08/08/06	14:37	0.349783	-1.100058	-0.3695	-0.385181	0.25127	0.163846	0.045081	0.304824	-0.060143	-0.001681	-0.006421	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0431 abs.lab	08/08/06	14:40	0.36409	-0.911654	-0.015519	-0.144609	0.352367	0.179455	0.063914	0.428928	-0.087251	-0.001535	-0.008149	149.764709	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0432 abs.lab	08/08/06	14:43	0.308413	-0.932043	-0.35587	0.176327	0.140855	0.130818	0.047473	-0.050306	-0.021744	-0.00568	-0.00768	150.509811	0.819706
11X-B RUN 3 08 08 06 SAMPLE_0433 abs.lab	08/08/06	14:45	0.332211	-1.208911	-0.413657	0.157613	0.110853	0.123026	0.066989	-0.105836	-0.016532	-0.008157	-0.006624	149.764709	0.819706
11X-B RUN 1 07 26 06 SAMPLE_0629 abs.lab	07/26/06	15:26	0.136071	-1.78017	-0.264309	0.070059	-2.752831	-0.212879	0.13577	0.112239	-0.21636	-0.011464	0.003117	150.509811	0.794091
11X-B RUN 1 07 26 06 SAMPLE_0630 abs.lab	07/26/06	15:29	0.119432	-1.803724	-0.186743	0.122731	-2.739363	-0.16222	0.15525	0.10034	-0.201453	-0.017151	-0.000929	150.509811	0.794091
11X-B RUN 1 07 26 06 SAMPLE_0631 abs.lab	07/26/06	15:31	0.051967	-1.857164	0.061065	0.121599	-2.704653	-0.202923	0.129281	0.186474	-0.196791	-0.006932	0.002804	150.509811	0.794091
		Average	-0.050105	-0.201778	-0.090876	0.002325	0.440436	0.070298	0.030936	0.207899	0.063214	0.017614	-0.003693	150.357497	0.819281
								Square of Differences							
11X-B RUN 3 08 08 06 SAMPLE_0256 abs.lab			0.002511	0.040714	0.008258	0.000005	0.193984	0.004942	0.000957	0.043222	0.003996	0.000310	0.000014		
11X-B RUN 3 08 08 06 SAMPLE_0257 abs.lab			0.019558	0.001760	0.124507	0.110402	0.006059	0.039414	0.001765	0.006928	0.000863	0.000217	0.000009		
11X-B RUN 3 08 08 06 SAMPLE_0258 abs.lab			0.041631	0.039766	0.226160	0.032562	0.060689	0.011210	0.003265	0.009042	0.002047	0.000024	0.000016		
11X-B RUN 3 08 08 06 SAMPLE_0259 abs.lab			0.005421	0.231361	0.199805	0.008042	0.349051	0.005089	0.001536	0.033481	0.001488	0.000002	0.000016		
11X-B RUN 3 08 08 06 SAMPLE_0260 abs.lab			0.032671	0.001120	0.194442	0.013501	0.030760	0.002640	0.003062	0.005548	0.004499	0.000044	0.000012		
11X-B RUN 3 08 08 06 SAMPLE_0261 abs.lab			0.025248	0.064030	0.137989	0.090820	0.143213	0.000137	0.002073	0.048004	0.001203	0.000009	0.000020		
11X-B RUN 3 08 08 06 SAMPLE_0262 abs.lab			0.003150	0.072723	0.320945	0.022174	0.200386	0.017193	0.000622	0.004185	0.002515	0.000004	0.000016		
11X-B RUN 3 08 08 06 SAMPLE_0263 abs.lab			0.002945	0.046550	0.124362	0.007138	0.343543	0.020059	0.000048	0.001091	0.000639	0.000015	0.000008		
11X-B RUN 3 08 08 06 SAMPLE_0264 abs.lab			0.013052	0.037738	0.086937	0.000340	0.331540	0.000455	0.000000	0.004969	0.000199	0.000016	0.000007		
11X-B RUN 3 08 08 06 SAMPLE_0265 abs.lab			0.000524	0.003825	0.140759	0.011262	0.576153	0.002450	0.000015	0.005781	0.000099	0.000018	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0266 abs.lab			0.016684	0.007105	0.142475	0.118644	0.080213	0.015292	0.000743	0.000020	0.001816	0.000122	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0267 abs.lab			0.019131	0.000995	0.046750	0.092114	0.146143	0.001942	0.000598	0.005242	0.008091	0.000262	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0268 abs.lab			0.001842	0.019963	0.079701	0.037804	0.461149	0.001497	0.000135	0.012110	0.000152	0.000003	0.000009		
11X-B RUN 3 08 08 06 SAMPLE_0269 abs.lab			0.001466	0.003983	0.009671	0.009862	0.334317	0.003494	0.000032	0.001120	0.000678	0.000037	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0270 abs.lab			0.030800	0.000213	0.078431	0.070155	0.127143	0.001128	0.000508	0.000030	0.004730	0.000075	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0271 abs.lab			0.032695	0.136292	0.065439	0.332015	0.000063	0.000755	0.002924	0.043047	0.004875	0.000233	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0272 abs.lab			0.027134	0.059056	0.033068	0.086573	0.014197	0.000003	0.001300	0.017339	0.001234	0.000127	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0273 abs.lab			0.002599	0.020745	0.082034	0.012185	0.185004	0.000702	0.000577	0.002378	0.006994	0.000087	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0274 abs.lab			0.007589	0.004455	0.013503	0.107843	0.083380	0.003092	0.000145	0.001519	0.006564	0.000075	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0275 abs.lab			0.031775	0.025071	0.000111	0.115163	0.011687	0.001957	0.001820	0.013774	0.008667	0.000176	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0276 abs.lab			0.009673	0.177190	0.027808	0.343236	0.141874	0.004585	0.002078	0.078624	0.010741	0.000284	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0277 abs.lab			0.070908	0.422964	0.000292	0.140304	0.074773	0.000360	0.001351	0.009048	0.010527	0.000157	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0278 abs.lab			0.013329	0.399430	0.000507	0.060943	0.006906	0.000692	0.000522	0.031258	0.002868	0.000209	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0279 abs.lab			0.060492	0.237517	0.002707	0.146776	0.005411	0.015469	0.000892	0.007567	0.008860	0.000113	0.000005		
11X-B RUN 3 08 08 06 SAMPLE_0280 abs.lab			0.025485	0.322674	0.012120	0.597175	0.159204	0.029535	0.002204	0.118485	0.010280	0.000172	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0281 abs.lab			0.004744	0.476670	0.000340	0.485713	0.289936	0.040358	0.002063	0.133826	0.004056	0.000136	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0282 abs.lab			0.009151	0.408148	0.002557	0.492404	0.135004	0.001648	0.001259	0.123808	0.005586	0.000171	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0283 abs.lab			0.042502	0.441664	0.022504	0.293823	0.030681	0.007744	0.001549	0.054665	0.012817	0.000096	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0284 abs.lab			0.036564	0.326372	0.005698	0.118320	0.006387	0.054069	0.000001	0.006064	0.007775	0.000024	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0285 abs.lab			0.022121	0.405979	0.021932	0.400460	0.022306	0.000338	0.001145	0.094187	0.001585	0.000141	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0286 abs.lab			0.027139	0.652949	0.004531	0.372554	0.258993	0.001473	0.000533	0.098930	0.006353	0.000124	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0287 abs.lab			0.001482	0.449954	0.000000	0.434073	0.105241	0.070756	0.000125	0.315767	0.005271	0.000214	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0288 abs.lab			0.024766	0.458444	0.016163	0.357313	0.081282	0.010158	0.000040	0.088782	0.008837	0.000121	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0289 abs.lab			0.002710	0.737860	0.125272	0.451122	0.067629	0.007485	0.000429	0.337239	0.005502	0.000267	0.000005		
11X-B RUN 3 08 08 06 SAMPLE_0290 abs.lab			0.002681	0.511250	0.064217	0.510834	0.121686	0.004735	0.000190	0.293161	0.002233	0.000177	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0291 abs.lab			0.018058	0.170541	0.151606	0.545180	0.041984	0.048697	0.000033	0.580032	0.009449	0.000324	0.000005		

RTO FTIR Detection Limit Results
INTEL RIO RANCHO Q4 2006 VOC MONITORING

FTIR: MKS On-Line Model 2030
Serial No. 112

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBAUC (ppm)	H_2O (%)	CO_2 (%)	Temp (oC)	Press. (Atm)
11X-B RUN 3 08 08 06 SAMPLE_0292 abs.lab			0.052063	0.290735	0.094048	0.517806	0.071043	0.022222	0.000343	0.457713	0.005411	0.000354	0.000011		
11X-B RUN 3 08 08 06 SAMPLE_0293 abs.lab			0.003354	0.526290	0.047081	0.500616	0.025699	0.021088	0.000090	0.250630	0.010471	0.000186	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0294 abs.lab			0.001813	0.928078	0.106266	0.603997	0.099117	0.009827	0.001469	0.304019	0.007258	0.000100	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0295 abs.lab			0.025088	0.469433	0.114031	0.382983	0.057566	0.009498	0.000248	0.559435	0.008919	0.000093	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0296 abs.lab			0.024111	0.673094	0.174074	0.424359	0.077635	0.041603	0.000250	0.345849	0.004912	0.000097	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0297 abs.lab			0.040610	0.560291	0.220805	0.432011	0.022537	0.000904	0.000110	0.474152	0.010145	0.000062	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0298 abs.lab			0.010379	0.614839	0.074765	0.629327	0.018681	0.013741	0.000281	0.533223	0.010507	0.000070	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0299 abs.lab			0.037116	0.404556	0.180591	0.433987	0.016814	0.071823	0.000194	0.520471	0.013112	0.000073	0.000005		
11X-B RUN 3 08 08 06 SAMPLE_0300 abs.lab			0.077843	0.083895	0.305181	0.410647	0.041525	0.006266	0.000090	0.620268	0.002768	0.000116	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0301 abs.lab			0.055375	0.038100	0.275712	0.424273	0.034573	0.010782	0.000088	0.693459	0.005865	0.000112	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0302 abs.lab			0.108367	0.015255	0.296321	0.411883	0.042871	0.000008	0.000011	0.644962	0.010800	0.000208	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0303 abs.lab			0.136788	0.095600	0.445061	0.617012	0.004011	0.006551	0.000156	0.526339	0.014642	0.000210	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0304 abs.lab			0.092476	0.020672	0.523258	0.155608	0.197520	0.006130	0.000012	0.512151	0.003566	0.000103	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0305 abs.lab			0.178549	0.002411	0.203647	0.040861	0.337773	0.011623	0.000041	0.136877	0.001229	0.000065	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0306 abs.lab			0.148600	0.015244	0.111414	0.034699	0.387404	0.008758	0.000086	0.023363	0.001143	0.000100	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0307 abs.lab			0.135148	0.011763	0.029349	0.003969	0.355140	0.000312	0.000058	0.000072	0.003244	0.000193	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0308 abs.lab			0.162762	0.000473	0.127117	0.004700	0.869609	0.024563	0.000002	0.004139	0.004105	0.000117	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0309 abs.lab			0.210832	0.016890	0.083406	0.005498	0.498415	0.001556	0.000057	0.023420	0.001464	0.000109	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0310 abs.lab			0.061558	0.006743	0.020220	0.085170	0.578113	0.028791	0.000062	0.051300	0.004083	0.000115	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0311 abs.lab			0.081396	0.055314	0.000925	0.011363	0.769319	0.044776	0.000081	0.007863	0.000776	0.000141	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0312 abs.lab			0.080340	0.017801	0.040742	0.292051	0.335181	0.012094	0.000026	0.197924	0.002890	0.000130	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0313 abs.lab			0.141353	0.018255	0.132473	0.051501	0.449799	0.012278	0.000567	0.004913	0.005272	0.000115	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0314 abs.lab			0.068549	0.082506	0.002677	0.000946	0.510884	0.006542	0.000016	0.025601	0.001056	0.000120	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0315 abs.lab			0.085249	0.096213	0.276663	0.034470	0.279413	0.003463	0.000635	0.003662	0.001709	0.000083	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0316 abs.lab			0.109112	0.108156	0.001153	0.006404	0.484009	0.018310	0.000160	0.073476	0.003342	0.000027	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0317 abs.lab			0.080519	0.020203	0.004965	0.060514	0.323608	0.016748	0.000045	0.009517	0.001135	0.000045	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0318 abs.lab			0.093147	0.006110	0.025878	0.020671	0.784392	0.029770	0.000000	0.060239	0.011957	0.000043	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0319 abs.lab			0.056013	0.004391	0.000033	0.119864	0.739456	0.008034	0.000295	0.110115	0.001140	0.000046	0.000010		
11X-B RUN 3 08 08 06 SAMPLE_0320 abs.lab			0.130614	0.004058	0.125456	0.010089	0.229256	0.004728	0.000014	0.025444	0.003821	0.000052	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0321 abs.lab			0.117361	0.071156	0.041155	0.015653	0.419500	0.006202	0.000046	0.001600	0.000926	0.000023	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0322 abs.lab			0.109904	0.001589	0.224995	0.000128	0.237977	0.004523	0.000191	0.008525	0.000867	0.000006	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0323 abs.lab			0.043190	0.000512	0.054750	0.012085	0.475555	0.023419	0.000001	0.014144	0.000885	0.000000	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0324 abs.lab			0.094214	0.000642	0.028421	0.024825	0.549307	0.000270	0.000321	0.073469	0.002991	0.000009	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0325 abs.lab			0.056928	0.000008	0.012457	0.037996	0.364768	0.002144	0.000918	0.046044	0.002108	0.000017	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0326 abs.lab			0.068294	0.011301	0.009773	0.068143	0.149164	0.033523	0.001956	0.069441	0.001143	0.000013	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0327 abs.lab			0.100362	0.003558	0.005402	0.116992	0.328302	0.025233	0.000962	0.012244	0.001118	0.000004	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0328 abs.lab			0.112038	0.007733	0.019655	0.033748	0.220933	0.016093	0.000413	0.023922	0.000549	0.000002	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0329 abs.lab			0.055858	0.030546	0.049922	0.223409	0.422612	0.021835	0.001878	0.039105	0.000005	0.000007	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0330 abs.lab			0.004789	0.122375	0.096325	0.047195	0.211162	0.004358	0.000633	0.004189	0.000117	0.000072	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0331 abs.lab			0.005133	0.092101	0.228748	0.188281	0.153639	0.005274	0.001484	0.000628	0.008544	0.000124	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0332 abs.lab			0.000786	0.108191	0.057505	0.245005	0.223853	0.000900	0.001531	0.002027	0.003170	0.000139	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0333 abs.lab			0.000197	0.036240	0.452797	0.226240	0.004814	0.028499	0.003345	0.008199	0.001687	0.000141	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0334 abs.lab			0.000777	0.159509	0.137089	0.135705	0.079289	0.052778	0.001915	0.030007	0.000104	0.000157	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0335 abs.lab			0.004564	0.024990	0.123303	0.172554	0.088977	0.034776	0.000677	0.055052	0.000211	0.000072	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0336 abs.lab			0.050051	0.000941	0.000069	0.004475	0.185962	0.001803	0.000000	0.035269	0.001260	0.000045	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0337 abs.lab			0.035840	0.019054	0.027814	0.027216	0.102449	0.120659	0.000124	0.077362	0.000056	0.000112	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0338 abs.lab			0.006205	0.009557	0.005385	0.028530	0.261380	0.030388	0.000483	0.000269	0.000040	0.000259	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0339 abs.lab			0.000152	0.049297	0.198162	0.176762	0.016145	0.047977	0.000797	0.040005	0.000332	0.000294	0.000005		
11X-B RUN 3 08 08 06 SAMPLE_0340 abs.lab			0.000753	0.050604	0.124564	0.107966	0.089637	0.005107	0.001527	0.021597	0.000319	0.000337	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0341 abs.lab			0.004630	0.027787	0.112808	0.047821	0.002388	0.002896	0.002707	0.004331	0.000587	0.000321	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0342 abs.lab			0.000383	0.000149	0.436556	0.110416	0.188605	0.002187	0.002623	0.002114	0.000647	0.000278	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0343 abs.lab			0.009080	0.002198	0.066725	0.265468	0.037984	0.010433	0.001065	0.103335	0.000218	0.000153	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0344 abs.lab			0.039409	0.001816	0.019997	0.130229	0.012846	0.008478	0.000148	0.052395	0.005325	0.000222	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0345 abs.lab			0.001514	0.014623	0.099753	0.136337	0.070250	0.002481	0.000530	0.031050	0.001518	0.000306	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0346 abs.lab			0.003175	0.033636	0.158778	0.390960	0.097198	0.000624	0.001288	0.032931	0.000740	0.000356	0.000003		

RTO FTIR Detection Limit Results
INTEL RIO RANCHO Q4 2006 VOC MONITORING

FTIR: MKS On-Line Model 2030
Serial No. 112

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBAUC (ppm)	H_2O (%)	CO_2 (%)	Temp (oC)	Press. (Atm)
11X-B RUN 3 08 08 06 SAMPLE_0347 abs.lab			0.006636	0.009866	0.376105	0.341839	0.006538	0.000410	0.002310	0.044039	0.003280	0.000484	0.000009		
11X-B RUN 3 08 08 06 SAMPLE_0348 abs.lab			0.002161	0.001533	0.220690	0.220572	0.020920	0.012812	0.002094	0.026264	0.001403	0.000516	0.000016		
11X-B RUN 3 08 08 06 SAMPLE_0349 abs.lab			0.002568	0.020271	0.197490	0.248531	0.020401	0.000257	0.001256	0.000511	0.003796	0.000484	0.000013		
11X-B RUN 3 08 08 06 SAMPLE_0350 abs.lab			0.001930	0.082833	0.094393	0.430163	0.002745	0.000648	0.000940	0.004105	0.003251	0.000353	0.000017		
11X-B RUN 3 08 08 06 SAMPLE_0351 abs.lab			0.010956	0.000668	0.263865	0.165460	0.060867	0.021954	0.001844	0.000403	0.003802	0.000339	0.000011		
11X-B RUN 3 08 08 06 SAMPLE_0352 abs.lab			0.004780	0.000843	0.104085	0.133453	0.080213	0.014487	0.000827	0.024821	0.000029	0.000333	0.000012		
11X-B RUN 3 08 08 06 SAMPLE_0353 abs.lab			0.017119	0.001880	0.086422	0.098094	0.163769	0.015883	0.000603	0.010273	0.003466	0.000366	0.000011		
11X-B RUN 3 08 08 06 SAMPLE_0354 abs.lab			0.006599	0.001043	0.097791	0.041949	0.028673	0.011972	0.000767	0.000156	0.003990	0.000406	0.000008		
11X-B RUN 3 08 08 06 SAMPLE_0355 abs.lab			0.051961	0.016384	0.037488	0.112141	0.214387	0.007901	0.000996	0.005672	0.002531	0.000502	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0356 abs.lab			0.022438	0.054363	0.056744	0.071301	0.103970	0.009308	0.000058	0.000291	0.000042	0.000406	0.000008		
11X-B RUN 3 08 08 06 SAMPLE_0357 abs.lab			0.075080	0.000009	0.014797	0.061085	0.058565	0.003069	0.001285	0.001377	0.008741	0.000425	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0358 abs.lab			0.079193	0.081702	0.000129	0.051061	0.211613	0.049355	0.000574	0.002847	0.000193	0.000407	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0359 abs.lab			0.030640	0.038967	0.120578	0.035588	0.043113	0.000131	0.001680	0.000038	0.007807	0.000495	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0360 abs.lab			0.093584	0.099289	0.015540	0.088190	0.089971	0.000651	0.000000	0.004130	0.000016	0.000244	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0361 abs.lab			0.057054	0.133812	0.011839	0.107000	0.142485	0.020828	0.001202	0.000230	0.003690	0.000322	0.000005		
11X-B RUN 3 08 08 06 SAMPLE_0362 abs.lab			0.059335	0.178459	0.004707	0.000061	0.170325	0.037528	0.000149	0.000562	0.000454	0.000380	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0363 abs.lab			0.050669	0.001076	0.013130	0.093733	0.107474	0.011562	0.000000	0.000519	0.000408	0.000209	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0364 abs.lab			0.086391	0.055125	0.064535	0.000329	0.220862	0.000057	0.000272	0.066181	0.000380	0.000262	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0365 abs.lab			0.037822	0.060975	0.010001	0.003535	0.022855	0.001379	0.000103	0.023336	0.000068	0.000245	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0366 abs.lab			0.047837	0.020063	0.072529	0.000032	0.030808	0.002489	0.000030	0.024691	0.000337	0.000029	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0367 abs.lab			0.117005	0.001727	0.047326	0.014810	0.001788	0.000294	0.000186	0.188851	0.000115	0.000052	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0368 abs.lab			0.051025	0.230185	0.108152	0.040152	0.002727	0.030175	0.000020	0.087047	0.000432	0.000105	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0369 abs.lab			0.024882	0.013615	0.153913	0.000023	0.093922	0.000228	0.000041	0.049545	0.000816	0.000016	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0370 abs.lab			0.047989	0.000404	0.161930	0.000121	0.177124	0.011918	0.000128	0.075132	0.003608	0.000037	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0371 abs.lab			0.016095	0.000772	0.156236	0.010833	0.678606	0.000549	0.000034	0.019635	0.000012	0.000018	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0372 abs.lab			0.000107	0.008910	0.227935	0.004147	2.063486	0.117894	0.000625	0.040122	0.000105	0.000301	0.000009		
11X-B RUN 3 08 08 06 SAMPLE_0373 abs.lab			0.003969	0.007642	0.153998	0.047120	1.510182	0.110267	0.000702	0.003746	0.000005	0.000119	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0374 abs.lab			0.004038	0.223979	0.036890	0.034273	0.736069	0.054882	0.000150	0.051974	0.000283	0.000067	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0375 abs.lab			0.016812	0.005866	0.068459	0.001020	0.714633	0.030809	0.000067	0.028346	0.000251	0.000004	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0376 abs.lab			0.000113	0.109737	0.089077	0.002416	2.231133	0.064717	0.000460	0.003984	0.000020	0.000134	0.000005		
11X-B RUN 3 08 08 06 SAMPLE_0377 abs.lab			0.002046	0.059113	0.296790	0.000212	2.661325	0.068484	0.000139	0.004473	0.000032	0.000265	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0378 abs.lab			0.019689	0.092277	0.199346	0.003833	0.851978	0.006955	0.000048	0.094010	0.002863	0.000019	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0379 abs.lab			0.005642	0.025761	0.170565	0.046463	1.325680	0.013244	0.000012	0.035057	0.003985	0.000045	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0380 abs.lab			0.034591	0.187718	0.293048	0.035100	0.633448	0.016353	0.000263	0.028735	0.001467	0.000021	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0381 abs.lab			0.044913	0.084965	0.090643	0.040804	0.252684	0.012932	0.000184	0.166548	0.002144	0.000000	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0382 abs.lab			0.032992	0.002027	0.028047	0.011939	0.052297	0.009891	0.000013	0.066342	0.000454	0.000035	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0383 abs.lab			0.057866	0.002588	0.112662	0.014260	0.013986	0.003170	0.000151	0.038445	0.002147	0.000090	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0384 abs.lab			0.104570	0.011995	0.016663	0.018331	0.016583	0.010351	0.000000	0.082800	0.003456	0.000285	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0385 abs.lab			0.075350	0.028321	0.003214	0.001138	0.025631	0.007379	0.000010	0.060294	0.006401	0.000208	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0386 abs.lab			0.073042	0.057978	0.134561	0.034375	0.006850	0.001733	0.000065	0.132875	0.005370	0.000014	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0387 abs.lab			0.042778	0.012445	0.031822	0.009338	0.027912	0.007854	0.000236	0.013879	0.000649	0.000296	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0388 abs.lab			0.038842	0.003637	0.016723	0.001925	0.044987	0.002999	0.000205	0.052316	0.004604	0.000165	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0389 abs.lab			0.043798	0.008903	0.000555	0.007700	0.000842	0.007653	0.000004	0.032094	0.000330	0.000145	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0390 abs.lab			0.024985	0.086463	0.178773	0.017757	0.005050	0.002451	0.001030	0.000021	0.002074	0.000379	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0391 abs.lab			0.003770	0.096240	0.149106	0.058724	0.001875	0.001887	0.001051	0.005021	0.000266	0.000303	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0392 abs.lab			0.029986	0.073131	0.134841	0.004502	0.010969	0.000131	0.000791	0.000906	0.001095	0.000381	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0393 abs.lab			0.050592	0.036947	0.079796	0.016502	0.001148	0.002809	0.001067	0.045340	0.000007	0.000194	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0394 abs.lab			0.006085	0.110704	0.239748	0.196889	0.001127	0.000003	0.001044	0.045043	0.000001	0.000157	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0395 abs.lab			0.019584	0.007089	0.054563	0.034149	0.000003	0.000264	0.000596	0.010465	0.000136	0.000225	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0396 abs.lab			0.061359	0.031234	0.011253	0.003398	0.027739	0.019202	0.000954	0.042343	0.000161	0.000073	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0397 abs.lab			0.017212	0.004834	0.023334	0.085162	0.041038	0.001763	0.000414	0.000020	0.000151	0.000147	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0398 abs.lab			0.061869	0.030514	0.045716	0.000439	0.028843	0.001938	0.003039	0.000343	0.001394	0.000181	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0399 abs.lab			0.049593	0.006354	0.037356	0.003058	0.000683	0.000147	0.001336	0.003040	0.000217	0.000176	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0400 abs.lab			0.068753	0.000830	0.008349	0.011335	0.033887	0.001139	0.000118	0.028509	0.000078	0.000088	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0401 abs.lab			0.051418	0.001131	0.003703	0.071944	0.008466	0.000509	0.000338	0.000335	0.000567	0.000143	0.000007		

RTO FTIR Detection Limit Results
INTEL RIO RANCHO Q4 2006 VOC MONITORING

FTIR: MKS On-Line Model 2030
Serial No. 112

Spectrum	Date	Time	Methanol (ppm)	Ethanol (ppm)	IPA (ppm)	m-xylene (ppm)	o-xylene (ppm)	p-xylene (ppm)	Ethyl Lactate (ppm)	PGMEA (ppm)	NBAUC (ppm)	H_2O (%)	CO_2 (%)	Temp (oC)	Press. (Atm)
11X-B RUN 3 08 08 06 SAMPLE_0402 abs.lab			0.037482	0.010371	0.055787	0.109969	0.006019	0.069030	0.000085	0.001586	0.000004	0.000149	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0403 abs.lab			0.048446	0.000529	0.071307	0.000142	0.003060	0.000094	0.001027	0.001031	0.000463	0.000131	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0404 abs.lab			0.050337	0.031660	0.097262	0.017964	0.000902	0.000599	0.000636	0.011870	0.000108	0.000029	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0405 abs.lab			0.043007	0.001462	0.112988	0.009705	0.006236	0.002533	0.003060	0.003715	0.000489	0.000110	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0406 abs.lab			0.054769	0.000004	0.039399	0.073815	0.002346	0.000388	0.000854	0.012487	0.000001	0.000142	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0407 abs.lab			0.042268	0.017790	0.035855	0.004067	0.000198	0.011791	0.000638	0.000003	0.001619	0.000125	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0408 abs.lab			0.118708	0.003133	0.004524	0.000090	0.000001	0.005310	0.000013	0.021922	0.000425	0.000062	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0409 abs.lab			0.093301	0.005253	0.018619	0.004834	0.037952	0.035880	0.000306	0.030228	0.002334	0.000058	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0410 abs.lab			0.040327	0.000932	0.001236	0.003760	0.029175	0.001588	0.000087	0.054142	0.009610	0.000003	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0411 abs.lab			0.091837	0.013053	0.011340	0.036361	0.217280	0.003323	0.000048	0.032301	0.003927	0.000000	0.000006		
11X-B RUN 3 08 08 06 SAMPLE_0412 abs.lab			0.024163	0.000143	0.001378	0.032843	0.008291	0.005289	0.000993	0.034294	0.000235	0.000140	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0413 abs.lab			0.101380	0.061027	0.033344	0.001183	0.000987	0.025350	0.000004	0.094066	0.004988	0.000000	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0414 abs.lab			0.075658	0.156370	0.027085	0.000246	0.006857	0.001645	0.000242	0.042636	0.001849	0.000069	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0415 abs.lab			0.068836	0.022056	0.042905	0.004227	0.000001	0.000004	0.000119	0.040306	0.002985	0.000002	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0416 abs.lab			0.041137	0.040792	0.042846	0.014128	0.015414	0.016982	0.000875	0.001027	0.000004	0.000103	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0417 abs.lab			0.000410	0.002212	0.018206	0.017521	0.125445	0.001060	0.000110	0.012440	0.000090	0.000112	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0418 abs.lab			0.007465	0.039570	0.205045	0.114815	0.133440	0.000379	0.000221	0.023182	0.000385	0.000112	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0419 abs.lab			0.006810	0.406131	0.201335	0.151942	0.084769	0.000585	0.000008	0.079328	0.000760	0.000021	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0420 abs.lab			0.001056	0.272953	0.131573	0.149499	0.161889	0.003702	0.000105	0.032382	0.000288	0.000016	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0421 abs.lab			0.065937	0.308894	0.023530	0.220174	0.021612	0.012792	0.000020	0.109769	0.010897	0.000004	0.000004		
11X-B RUN 3 08 08 06 SAMPLE_0422 abs.lab			0.043361	0.253339	0.069533	0.354546	0.097207	0.018920	0.000149	0.242887	0.018296	0.000041	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0423 abs.lab			0.119471	1.025300	0.071682	0.048851	0.035059	0.000982	0.002188	0.035593	0.021691	0.000100	0.000001		
11X-B RUN 3 08 08 06 SAMPLE_0424 abs.lab			0.154478	0.602218	0.040309	0.098231	0.014464	0.033422	0.001531	0.120908	0.021698	0.000140	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0425 abs.lab			0.103897	0.429732	0.020595	0.048317	0.056385	0.016607	0.002091	0.061549	0.017681	0.000222	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0426 abs.lab			0.195793	0.980780	0.425274	0.024205	0.183818	0.028569	0.002094	0.126026	0.006888	0.000221	0.000002		
11X-B RUN 3 08 08 06 SAMPLE_0427 abs.lab			0.145681	0.553935	0.193980	0.033429	0.321248	0.035156	0.002485	0.064618	0.004241	0.000242	0.000000		
11X-B RUN 3 08 08 06 SAMPLE_0428 abs.lab			0.110552	0.479238	0.042929	0.003740	0.055294	0.015618	0.000441	0.002727	0.010128	0.000399	0.000008		
11X-B RUN 3 08 08 06 SAMPLE_0429 abs.lab			0.149161	0.582296	0.022720	0.002481	0.000357	0.007871	0.000912	0.000014	0.014353	0.000484	0.000003		
11X-B RUN 3 08 08 06 SAMPLE_0430 abs.lab			0.159911	0.806907	0.077631	0.150161	0.035784	0.008751	0.000200	0.009394	0.015217	0.000372	0.000007		
11X-B RUN 3 08 08 06 SAMPLE_0431 abs.lab			0.171558	0.503924	0.005679	0.021590	0.007756	0.011915	0.001088	0.048854	0.022640	0.000367	0.000020		
11X-B RUN 3 08 08 06 SAMPLE_0432 abs.lab			0.128535	0.533287	0.070222	0.030277	0.089749	0.003663	0.000273	0.066670	0.007218	0.000543	0.000016		
11X-B RUN 3 08 08 06 SAMPLE_0433 abs.lab			0.146166	1.014317	0.104188	0.024114	0.108625	0.002780	0.001300	0.098430	0.006359	0.000664	0.000009		
11X-B RUN 1 07 26 06 SAMPLE_0629 abs.lab			0.034662	2.491322	0.030079	0.004588	10.196953	0.080189	0.010990	0.009151	0.078162	0.000846	0.000046		
11X-B RUN 1 07 26 06 SAMPLE_0630 abs.lab			0.028743	2.566232	0.009190	0.014498	10.111120	0.054065	0.015454	0.011569	0.070049	0.001209	0.000008		
11X-B RUN 1 07 26 06 SAMPLE_0631 abs.lab			0.010419	2.740303	0.023086	0.014226	9.891583	0.074650	0.009672	0.000459	0.067603	0.000602	0.000042		
		RMSD	0.22135666	0.4267779	0.3084486	0.3467218	0.6084877	0.124695	0.029955861	0.2774765	0.0698602	0.0131438	0.001969		
Instrument Detection Limit		3*RMSD	0.664	1.280	0.925	1.040	1.825	0.374	0.090	0.832	0.210	0.039	0.006		
		#102	0.274	0.552	0.678	0.713	0.714	0.344	0.053	1.053	0.346	0.113	0.004		
Used for Detection Limit		Highest	0.664	1.280	0.925	1.040	1.825	0.374	0.090	1.053	0.346	0.113	0.006		

APPENDIX D
Calibrations and Certifications

APPENDIX D-1
Certifications
Cylinder / Gases

CERTIFIED MASTER CLASS

Single-Certified Calibration Standard

Scott Specialty Gases
500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ACCURACY: Certified Master Class Calibration Standard

Product Information
Project No.: 08-35496-003
Item No.: 08020001290PAL
P.O. No.: 6506D

Cylinder Number: ALM027323
Cylinder Size: AL
Certification Date: 13Apr2006
Expiration Date: 12Apr2008

Customer

TRC ENVIRONMENTAL
7761 SHAFFER PARKWAY
SUITE 100
LITTLETON, CO 80127

CERTIFIED CONCENTRATION

Component Name	Concentration (Moles)		Accuracy (+/-%)
ETHYLENE	100.	PPM	2
NITROGEN		BALANCE	

TRACEABILITY

Traceable To

NIST

APPROVED BY: Devon Von Fielitz for ADAM HANLEY DATE: April 14, 2006

SPECIFICATIONS

Component Name	Requested Concentration (Moles)		Certified Concentration (Moles)		Blend Tolerance Result (+/- %)	Certified Accuracy Result (+/- %)
ETHYLENE	100.	PPM	100.	PPM	.0	2.00
NITROGEN		BAL		BAL		

TRACEABILITY

Traceable To
NIST

PHYSICAL PROPERTIES

Cylinder Size: AL

Pressure: 2015 PSIG
Expiration Date: 12Apr2008

Valve Connection: 350

SPECIAL HANDLING INSTRUCTIONS

Do not use or store cylinder at or below the stated dew point temperature. Possible condensation of heavier components could result. In the event the cylinder has been exposed to temperatures at or below the dew point, place cylinder in heated area for 24 hours and then roll cylinder for 15 minutes to re-mix.

Use of calibration standards at or below dew point temperature may result in calibration error.

CERTIFIED MASTER CLASS

Single-Certified Calibration Standard

Scott Specialty Gases
500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ACCURACY: Certified Master Class Calibration Standard

Product Information
Project No.: 08-35496-003
Item No.: 08020001290PAL
P.O. No.: 6506D

Cylinder Number: ALM011840
Cylinder Size: AL
Certification Date: 13Apr2006
Expiration Date: 12Apr2008

Customer

TRC ENVIRONMENTAL
7761 SHAFFER PARKWAY
SUITE 100
LITTLETON, CO 80127

CERTIFIED CONCENTRATION

Component Name	Concentration (Moles)		Accuracy (+/-%)
ETHYLENE	100.	PPM	2
NITROGEN		BALANCE	

TRACEABILITY

Traceable To

NIST

APPROVED BY: Devon VanFleet for ADAM HANLEY DATE: April 14, 2006

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7678

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

P.O. No.: 6533D
Project No.: 08-38316-003

Customer

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM061202 **Certification Date:** 11Jul2006 **Exp. Date:** 10Jul2009
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
PROPANE	85.3	PPM	+/- 1%	Direct NIST and NMi
AIR		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1667	04Jul2008	ALM036360	49.80 PPM	PROPANE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HPGC/5890/3115A34624	11Jul2006	TCD

ANALYZER READINGS

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient)

First Triad Analysis | **Second Triad Analysis** | **Calibration Curve**

PROPANE

Date: 11Jul2006	Response Unit:AREA	
Z1=0.00000	R1=186181.0	T1=319633.0
R2=186097.0	Z2=0.00000	T2=317623.0
Z3=0.00000	T3=318378.0	R3=186423.0
Avg. Concentration:	85.25	PPM

Concentration=A+Bx+Cx2+Dx3+Ex4

Constants:	A=-0.42930259
B=2.63E-04	C=0.00E+00
D=	E=

APPROVED BY: _____

ADAM HANLEY

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

P.O. No.: 6382D
Project No.: 08-23010-003

Customer
TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1: September, 1997.

Cylinder Number: ALM039067 **Certification Date:** 28Mar2005 **Exp. Date:** 27Mar2008
Cylinder Pressure***: 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
PROPANE	85.4	PPM	+/- 1%	Direct NIST and NMi
AIR		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.
Product certified as +/- 1% analytical accuracy is directly traceable to NIST or NMI standards.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1668	01Aug2005	ALM008927	99.50 PPM	PROPANE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HP5890/5890/3115A34623	28Mar2005	FID

ANALYZER READINGS

(Z = Zero Gas R = Reference Gas T = Test Gas r = Correlation Coefficient)

First Triad Analysis

PROPANE

Date: 28Mar2005 Response Unit:AREA

Z1 = 0.00000	R1 = 420923.0	T1 = 362193.0
R2 = 420226.0	Z2 = 0.00000	T2 = 361969.0
Z3 = 0.00000	T3 = 361382.0	R3 = 420526.0

Avg Concentration: 85.36 PPM

Second Triad Analysis

Calibration Curve

Concentration = A + Bx + Cx2 + Dx3 + Ex4
r = 1.000000

Constants:	A = 0.0169534
B = 2.32	C = 3.92
D =	E =

APPROVED BY:

JOHN ROZOF

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-767

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

P.O. No.: 6533D
Project No.: 08-38316-002

Customer

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM062433 **Certification Date:** 11Jul2006 **Exp. Date:** 10Jul2009
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
PROPANE	30.1	PPM	+/- 1%	Direct NIST and NMi
AIR		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1667	04Jul2008	ALM036360	49.80 PPM	PROPANE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HPGC/5890/3115A34624	11Jul2006	TCD

ANALYZER READINGS

(Z = Zero Gas R = Reference Gas T = Test Gas r = Correlation Coefficient)

First Triad Analysis | **Second Triad Analysis** | **Calibration Curve**

PROPANE

Date: 11Jul2006	Response Unit:AREA	
Z1 = 0.00000	R1 = 186181.0	T1 = 113581.0
R2 = 186097.0	Z2 = 0.00000	T2 = 113526.0
Z3 = 0.00000	T3 = 113561.0	R3 = 186423.0
Avg. Concentration:	30.11	PPM

Concentration = A + Bx + Cx2 + Dx3 + Ex4

Constants:	A = -0.42930259
B = 2.63E-04	C = 0.00E+00
D =	E =

APPROVED BY: _____
ADAM HANLEY

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7678

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

P.O. No.: 6533D
Project No.: 08-38316-001

Customer

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM021785 **Certification Date:** 11Jul2006 **Exp. Date:** 10Jul2009
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
PROPANE	30.1	PPM	+/- 1%	Direct NIST and NMi
AIR		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1667	04Jul2008	ALM036360	49.80 PPM	PROPANE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HPGC/5890/3115A34624	11Jul2006	TCD

ANALYZER READINGS

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient)

First Triad Analysis

PROPANE

Date: 11Jul2006 Response Unit:AREA

Z1=0.00000	R1=186181.0	T1=113244.0
R2=186097.0	Z2=0.00000	T2=113491.0
Z3=0.00000	T3=113413.0	R3=186423.0

Avg. Concentration: 30.07 PPM

Second Triad Analysis

Calibration Curve

Concentration=A+Bx+Cx2+Dx3+Ex4

Constants:	A=-0.42930259
B=2.63E-04	C=0.00E+00
D=	E=

APPROVED BY: _____
ADAM HANLEY

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7678

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

P.O. No.: 6537D
Project No.: 08-38977-001

Customer

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM067040 **Certification Date:** 31Jul2006 **Exp. Date:** 30Jul2009
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
PROPANE	50.4	PPM	+/- 1%	Direct NIST and NMi
AIR		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1667	04Jul2008	ALM036360	49.80 PPM	PROPANE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HPGC/5890/3115A34624	31Jul2006	TCD

ANALYZER READINGS

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient)

First Triad Analysis | **Second Triad Analysis** | **Calibration Curve**

PROPANE

Date: 31Jul2006	Response Unit:AREA	
Z1=0.00000	R1=190538.0	T1=191984.0
R2=190423.0	Z2=0.00000	T2=191995.0
Z3=0.00000	T3=192504.0	R3=190416.0
Avg. Concentration:	50.44	PPM

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.999995
Constants: A=0.41373947-
B=2.65 C=
D= E=

APPROVED BY: Dwon VonFeldt for
SAM BENNETT

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7678

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

P.O. No.: 6537D
Project No.: 08-38977-001

Customer

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM050156 **Certification Date:** 31Jul2006 **Exp. Date:** 30Jul2009
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
PROPANE	50.7	PPM	+/- 1%	Direct NIST and NMi
AIR		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1667	04Jul2008	ALM036360	49.80 PPM	PROPANE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HPGC/5890/3115A34624	31Jul2006	TCD

ANALYZER READINGS

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient)

First Triad Analysis

PROPANE

Date: 31Jul2006 Response Unit:AREA
Z1=0.00000 R1=190538.0 T1=192866.0
R2=190423.0 Z2=0.00000 T2=193181.0
Z3=0.00000 T3=193141.0 R3=190416.0
Avg. Concentration: 50.68 PPM

Second Triad Analysis

Calibration Curve

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.999995
Constants: A=0.41373947-
B=2.65 C=
D= E=

APPROVED BY: Devon VanFoldt for
SAM BENNETT

Scott Specialty Gases

From: 500 WEAVER PARK RD
LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

C E R T I F I C A T E O F A N A L Y S I S

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-30509-001
PO#: 6459D
ITEM #: 0801024 AL
DATE: 11Nov2005

CYLINDER #: AAL15263
FILL PRESSURE: 2000 PSIG

PURE MATERIAL: AIR CAS# 132259-10-0

GRADE: ZERO AIR

PURITY: -

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
THC	1 PPM	< 1 PPM
O2	20 TO 21%	=20 TO 21%

CGA 590

ANALYST: _____
WAYNE JOHNSON

Scott Specialty Gases

Shipped From: 500 WEAVER PARK RD
LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ANALYSIS

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-37981-001
PO#: 6531D
ITEM #: 0801024 AL
DATE: 27Jun2006

CYLINDER #: AAL5231
FILL PRESSURE: 02000 PSIG

PURE MATERIAL: AIR CAS# 132259-10-0

GRADE: ZERO AIR

PURITY: -

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
THC	1 PPM	< 1 PPM
O2	20 TO 21%	=20.8%

CGA 590

ANALYST: _____
WAYNE JOHNSON

Shipped From: 500 WEAVER PARK RD
LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

C E R T I F I C A T E O F A N A L Y S I S

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-37981-001
PO#: 6531D
ITEM #: 0801024 AL
DATE: 27Jun2006

CYLINDER #: ALM068045
FILL PRESSURE: 02000 PSIG

PURE MATERIAL: AIR CAS# 132259-10-0

GRADE: ZERO AIR

PURITY: -

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
THC	1 PPM	< 1 PPM
O2	20 TO 21%	=20.8%

CGA 590

ANALYST: _____
WAYNE JOHNSON

Shipped From: 500 WEAVER PARK RD
LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ANALYSIS

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-37981-001
PO#: 6531D
ITEM #: 0801024 AL
DATE: 27Jun2006

CYLINDER #: ALM064614
FILL PRESSURE: 02000 PSIG

PURE MATERIAL: AIR CAS# 132259-10-0

GRADE: ZERO AIR

PURITY: -

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
THC	1 PPM	< 1 PPM
O2	20 TO 21%	=20.8%

CGA 590

ANALYST: _____
WAYNE JOHNSON

Scott Specialty Gases

Shipped From: 500 WEAVER PARK RD
LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ANALYSIS

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-37981-002
PO#: 6531D
ITEM #: 0801840 AL
DATE: 27Jun2006

CYLINDER #: ALM051729
FILL PRESSURE: 02000 PSIG

PURE MATERIAL: NITROGEN CAS# 7727-37-9

GRADE: CEM ZERO

PURITY: 99.9995%

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
CO	1 PPM	< 1 PPM
CO2	1 PPM	< 1 PPM
THC	0.5 PPM	< 0.5 PPM
H2O	2 PPM	< 2 PPM
O2	0.5 PPM	< 0.5 PPM

CGA 580

ANALYST: _____
WAYNE JOHNSON

Scott Specialty Gases

Shipped From: 500 WEAVER PARK RD
LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ANALYSIS

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-37981-002
PO#: 6531D
ITEM #: 0801840 AL
DATE: 27Jun2006

CYLINDER #: ALM051479
FILL PRESSURE: 02000 PSIG

PURE MATERIAL: NITROGEN CAS# 7727-37-9

GRADE: CEM ZERO

PURITY: 99.9995%

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
CO	1 PPM	< 1 PPM
CO2	1 PPM	< 1 PPM
THC	0.5 PPM	< 0.5 PPM
H2O	2 PPM	< 2 PPM
O2	0.5 PPM	< 0.5 PPM

CGA 580

ANALYST: _____
WAYNE JOHNSON

Scott Specialty Gases

Shipped From: 500 WEAVER PARK RD
LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ANALYSIS

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-37981-002
PO#: 6531D
ITEM #: 0801840 AL
DATE: 27Jun2006

CYLINDER #: AAL1379
FILL PRESSURE: 02000 PSIG

PURE MATERIAL: NITROGEN CAS# 7727-37-9

GRADE: CEM ZERO

PURITY: 99.9995%

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
CO	1 PPM	< 1 PPM
CO2	1 PPM	< 1 PPM
THC	0.5 PPM	< 0.5 PPM
H2O	2 PPM	< 2 PPM
O2	0.5 PPM	< 0.5 PPM

CGA 580

ANALYST: WAYNE JOHNSON

Scott Specialty Gases

Shipped 500 WEAVER PARK RD
From: LONGMONT CO 80501
Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ANALYSIS

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

PROJECT #: 08-37981-002
PO#: 6531D
ITEM #: 0801840 AL
DATE: 27Jun2006

CYLINDER #: ALM064319
FILL PRESSURE: 02000 PSIG

PURE MATERIAL: NITROGEN CAS# 7727-37-9

GRADE: CEM ZERO

PURITY: 99.9995%

IMPURITY	MAXIMUM CONCENTRATIONS	ACTUAL CONCENTRATIONS
CO	1 PPM	< 1 PPM
CO2	1 PPM	< 1 PPM
THC	0.5 PPM	< 0.5 PPM
H2O	2 PPM	< 2 PPM
O2	0.5 PPM	< 0.5 PPM

CGA 580

ANALYST: _____
WAYNE JOHNSON

EPA Reference Method 205 Test Verification Check

7/24/2006

Manufacturer: Environics
Model: S-2020-R **Serial No.:** 1936
MFC's Checked: MFC 1 / MFC 2

O_2 initial Calibration, Servomex Model 1420, Serial No. 01420/701/394

Gas	measured	% Diff
0.00	-0.01	0.04
12.50	12.46	0.32
20.00	20.10	0.50

Dilution Gases using 20.0% O_2 Cylinder No. ALM040640
Diluted with UHP Grade N_2 through MFC 1

MFC	Expected	Measured	% Diff	Max	Min	% Var
2	12.5	12.56				
		12.58				
		12.57				
Average	12.5	12.57	0.56	12.58	12.56	0.14
2	15	15.05				
		15.04				
		15.03				
Average	15	15.04	0.26 (must be < 2%)	15.05	15.03	0.09 (must be < 2%)

Direct Introduction of Calibration Gas 12.6% O_2 Cylinder No. ALM044822

	Expected	Measured	% Diff
	12.6	12.72	
		12.71	
		12.71	
Average	12.6	12.72	0.92 (must be < 2%)

Technician: William J. Denton Date: 7/24/2006

TRC Environmental Corporation
DRC Measurements Divison
Littleton, Colorado
Project No.. 3197-3100-00000

EPA Reference Method 205 Test Verification Check

7/24/2006

Manufacturer: Environics
Model: S-2020-R **Serial No.:** 1936
MFC's Checked: MFC 1 / MFC 3

O_2 initial Calibration, Servomex Model 1420, Serial No. 01420/701/394

Gas	measured	% Diff
0.00	-0.01	0.04
12.50	12.46	0.32
20.00	20.10	0.50

Dilution Gases using 100.0% O_2 Cylinder No. AAL-13625
Diluted with UHP Grade N_2 through MFC 1

MFC	Expected	Measured	% Diff	Max	Min	% Var
3	12.50	12.56				
		12.57				
		12.57				
Average	12.5	12.57	0.53	12.57	12.56	0.08
3	15.00	15.03				
		15.03				
		15.03				
Average	15	15.03	0.20	15.03	15.03	0.01
			(must be < 2%)			(must be < 2%)

Direct Introduction of Calibration Gas 12.6% O2 Cylinder No. ALM044822

	Expected	Measured	% Diff
	12.6	12.73	
		12.72	
		12.72	
Average	12.6	12.73	0.99
			(must be < 2%)

Technician: William J. Peyton Date: 7/24/2006

Reference Method 205 Test Verification Check
7/24/2006

Manufacturer: Environics
Model: S-2020-R
MFC's Checked: MFC 1 / MFC 2 & MFC 1 / MFC 3
Serial No.: 1936

Raw One Minute Data

Time	O_2	Comment
10:22	13.99	Begin
10:23	12.56	12.5 % Diluted MFC 2
10:24	13.50	
10:25	15.05	15.0 % Diluted MFC 2
10:26	14.23	
10:27	12.72	12.6 % Direct
10:28	12.85	
10:29	12.58	12.5 % Diluted MFC 2
10:30	13.48	
10:31	15.04	15.0 % Diluted MFC 2
10:32	14.17	
10:33	12.71	12.6 % Direct
10:34	12.91	
10:35	12.57	12.5 % Diluted MFC 2
10:36	13.52	
10:37	15.03	15.0 % Diluted MFC 2
10:38	14.17	
10:39	12.71	12.6 % Direct
10:40	12.52	
10:41	12.56	12.5 % Diluted MFC 3
10:42	13.54	
10:43	15.03	15.0 % Diluted MFC 3
10:44	14.78	
10:45	12.73	12.6 % Direct
10:46	12.75	
10:47	12.57	12.5 % Diluted MFC 3
10:48	13.54	
10:49	15.03	15.0 % Diluted MFC 3
10:50	14.80	
10:51	12.72	12.6 % Direct
10:52	12.74	
10:53	12.57	12.5 % Diluted MFC 3
10:54	13.53	
10:55	15.03	15.0 % Diluted MFC 3
10:56	14.82	
10:57	12.72	12.6 % Direct

Environics®

Series 2020

System S/N 1936

ENVIRONICS FLOW CONTROLLER CALIBRATION SHEET

MFC#: 1 Size: 10000 SCCM

SERIAL NUMBER AW9310303

This flow controller was calibrated using a Sierra Cal Bench ™, a NIST traceable Primary Flow Standard Calibration System. This calibration was performed with Nitrogen at a standard reference temperature and pressure of 32° and 29.92 in.HG. This is not performance data. This data is used by the system operating modes to improve the flow accuracy.

	Set Flow	True Flow
5 %	500.0 CCM	508.794 CCM
10 %	1000.0 CCM	1027.289 CCM
20 %	2000.0 CCM	2047.051 CCM
30 %	3000.0 CCM	3090.987 CCM
40 %	4000.0 CCM	4130.562 CCM
50 %	5000.0 CCM	5178.245 CCM
60 %	6000.0 CCM	6225.721 CCM
70 %	7000.0 CCM	7229.509 CCM
80 %	8000.0 CCM	8270.210 CCM
90 %	9000.0 CCM	9295.513 CCM
100 %	10000.0 CCM	10337.825 CCM

Verified by: Karl Scantlebury Date: 8-30-05

System S/N 1936

ENVIRONICS FLOW CONTROLLER CALIBRATION SHEET

MFC#: 2 Size: 10000 SCCM

SERIAL NUMBER AW9311211

This flow controller was calibrated using a Sierra Cal Bench ™, a NIST traceable Primary Flow Standard Calibration System. This calibration was performed with Nitrogen at a standard reference temperature and pressure of 32° and 29.92 in.HG. This is not performance data. This data is used by the system operating modes to improve the flow accuracy.

	Set Flow	True Flow
5 %	500.0 CCM	542.596 CCM
10 %	1000.0 CCM	1067.859 CCM
20 %	2000.0 CCM	2111.911 CCM
30 %	3000.0 CCM	3154.830 CCM
40 %	4000.0 CCM	4188.950 CCM
50 %	5000.0 CCM	5243.477 CCM
60 %	6000.0 CCM	6292.550 CCM
70 %	7000.0 CCM	7322.472 CCM
80 %	8000.0 CCM	8320.312 CCM
90 %	9000.0 CCM	9354.315 CCM
100 %	10000.0 CCM	10392.478 CCM

Verified by: Karl Sentivany Date: 8-30-05

Environics®

Series 2020

System S/N 1936

ENVIRONICS FLOW CONTROLLER CALIBRATION SHEET

MFC#: 3 Size: 1200 SCCM

SERIAL NUMBER AW9312142

This flow controller was calibrated using a Sierra Cal Bench ™, a NIST traceable Primary Flow Standard Calibration System. This calibration was performed with Nitrogen at a standard reference temperature and pressure of 32° and 29.92 in.HG. This is not performance data. This data is used by the system operating modes to improve the flow accuracy.

	Set Flow	True Flow
5 %	60.0 CCM	64.401 CCM
10 %	120.0 CCM	128.003 CCM
20 %	240.0 CCM	252.890 CCM
30 %	360.0 CCM	376.373 CCM
40 %	480.0 CCM	502.754 CCM
50 %	600.0 CCM	625.421 CCM
60 %	720.0 CCM	749.783 CCM
70 %	840.0 CCM	875.516 CCM
80 %	960.0 CCM	1000.054 CCM
90 %	1080.0 CCM	1131.195 CCM
100 %	1200.0 CCM	1255.378 CCM

Verified by: Karl Santiany Date: 8-30-05

Environics®

ISO9001 REGISTERED COMPANY

ANSI-RAB QMS ACCREDITED

Series 2020

System S/N 1936

ENVIRONICS FLOW CONTROLLER CALIBRATION SHEET

MFC#: 4 Size: 150 SCCM

SERIAL NUMBER AW9311163

This flow controller was calibrated using a Sierra Cal Bench ™, a NIST traceable Primary Flow Standard Calibration System. This calibration was performed with Nitrogen at a standard reference temperature and pressure of 32° and 29.92 in.HG. This is not performance data. This data is used by the system operating modes to improve the flow accuracy.

	Set Flow	True Flow
5 %	7.5 CCM	6.749 CCM
10 %	15.0 CCM	14.761 CCM
20 %	30.0 CCM	30.517 CCM
30 %	45.0 CCM	46.065 CCM
40 %	60.0 CCM	61.490 CCM
50 %	75.0 CCM	76.928 CCM
60 %	90.0 CCM	92.269 CCM
70 %	105.0 CCM	107.552 CCM
80 %	120.0 CCM	123.088 CCM
90 %	135.0 CCM	138.342 CCM
100 %	150.0 CCM	153.792 CCM

Verified by: Karl Sentiany Date: 8-30-05

Computerized Gas Mixing/Dilution/Calibration Systems

Environics Inc. • 69 Industrial Park Road East • Tolland, CT 06084 • (860) 872-1111 • Fax (860) 870-9333

World Wide Web: http://www.environics.com E-mail: info@environics.com

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

P.O. No.: 6468D
08-32169-001

Customer

TRC ENVIRONMENTAL

7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM040640 **Certification Date:** 14Dec2005 **Exp. Date:** 13Dec2008
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON DIOXIDE	19.6 %	+/- 1%	Direct NIST and NMi
OXYGEN	20.0 %	+/- 1%	Direct NIST and NMi
NITROGEN	BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1675	04Jul2008	K009325	13.93 %	CARBON DIOXIDE
NTRM 2658	02Oct2006	ALM065037	9.930 %	OXYGEN

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HORIBA/AIA-210/4283805003	30Nov2005	NDIR
HPGC/5890/3115A34624	17Nov2005	TCD

ANALYZER READINGS

(Z = Zero Gas R = Reference Gas T = Test Gas r = Correlation Coefficient)

First Triad Analysis | **Second Triad Analysis** | **Calibration Curve**

CARBON DIOXIDE

Date: 14Dec2005	Response Unit:%	
Z1 = 0.00000	R1 = 3.70000	T1 = 4.38000
R2 = 3.69000	Z2 = 0.00000	T2 = 4.38000
Z3 = 0.00000	T3 = 4.38000	R3 = 3.69000
Avg. Concentration:	19.60	%

Concentration = A + Bx + Cx2 + Dx3 + Ex4
r = 0.999949
Constants: A = -0.00138886
B = 4.15E+00 C = -1.06E+00
D = 0.258796808 E =

OXYGEN

Date: 13Dec2005	Response Unit:%	
Z1 = 0.00000	R1 = 202444B.	T1 = 401648.0
R2 = 202832.0	Z2 = 0.00000	T2 = 402122.0
Z3 = 0.00000	T3 = 401731.0	R3 = 202682.0
Avg. Concentration:	20.00	%

Concentration = A + Bx + Cx2 + Dx3 + Ex4
r = 0.999999
Constants: A = -0.01877532
B = 4.66E-05 C = 2.72E-12
D = E =

APPROVED BY: JON WITZAK

Scott Specialty Gases

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RATA CLASS
Dual-Analyzed Calibration Standard

500 WEAVER PARK RD,LONGMONT,CO 80501 Phone: 888-253-1635

P.O. No.: 6254D
Project No.: 08-12220-001

SCOTT SPECIALTY GASES
500 WEAVER PARK RD
LONGMONT,CO 80501

TRC ENVIRONMENTAL
7761 SHAFFER PARKWAY
SUITE 100
LITTLETON CO 80127

This certification was performed according to EPA Traceability Protocol For Assay & Cert: of Gaseous Calibration Standards; Procedure G-1; September, 1997.
Cylinder Number: ALM044822 Certification Date: 12Apr2004 Exp. Date: 12Apr2007
Cylinder Pressure***: 2000 PSIG

			ANALYTICAL	
CARBON DIOXIDE	10.5	%	+/- 1%	Direct NIST and I
OXYGEN	12.6	%	+/- 1%	Direct NIST and I
NITROGEN		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.
** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, Septembe ta

NTRM 1675	01Jun2004	K018062	13.9%	CARBON DIOXIDE
NTRM 2658	02Oct2006	ALM065254	9.93%	OXYGEN

HPGC/5890/3115A34624	09Apr2004	TCD
HPGC/5890/3115A34624	31Mar2004	TCD

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient

First Triad Analysis

CARBON DIOXIDE
Date: 10Apr2004Resp Unit:%
Z1=0.0100R1=13.9380T1=10.49800
R2=13.921Z2=0.01000T2=10.48300
Z3=0.0100T3=10.4920R3=13.93100
Avg. Conc: 10.49 %

OXYGEN
Date: 12Apr2004Resp Unit:%
Z1=0.0200R1=9.91200T1=12.57100
R2=9.9480Z2=0.01000T2=12.56700
Z3=0.0100T3=12.5300R3=9.93000
Avg. Conc: 12.56 %

Second Triad Analysis

Calibration Curve

Concentration=A+Bx+Cx2+D:
r=1.000000
Constants: A=2.4122
B=3.7082 C=2.6172
D=0.0000 E=0.0000

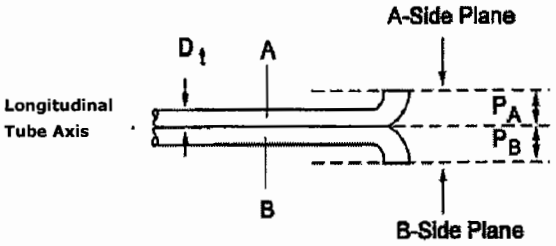
Concentration=A+Bx+Cx2+D:
r=0.999999
Constants: A=4.0000
B=9.3450 C=5.0000
D=0.0000 E=0.0000

APPROVED BY: (signature on file)
JON WITZAK

APPENDIX D-2
Certifications
Miscellaneous

PITOT TUBE CALIBRATION

Date:	11/4/2005	**Geometrically Correct:**	Yes
Technician:	K. Ewing	**Ambient Temperature:**	70
Pitot ID:	P501	**Thermocouple ID:**	P501
		Temprature Standard:	Thermometer
		Standard Serial No.:	Ice Bath @ 5500' Elevation

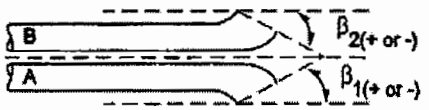


$1.05\ D_t < P < 1.50\ D_t$

D_t =	0.375
1.05 x D_t =	0.39375
1.50 x D_t =	0.5625

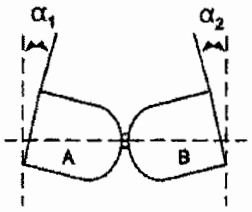
$P_A = P_B$

P_A =	0.422
P_B =	0.422



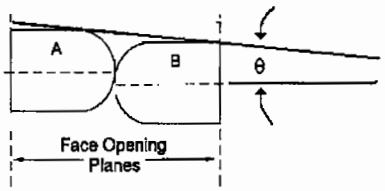
β_1 and $\beta_2 < 5°$

β_1 =	1
β_2 =	1



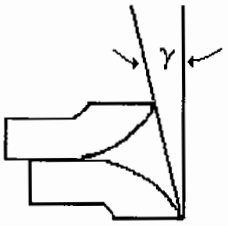
α_1 and $\alpha_2 < 10°$

α_1 =	2
α_2 =	1



$W < 0.0313$

θ =	2
W = A sin θ =	0.0294552



$Z < 0.125$

γ =	0.5
$A = P_A + P_B$ =	0.844
Z = A sin γ =	0.0073652

Standard Temperature (°F)	Measured Temperature (°F)	Standard Temperature (°R)	Pitot Measured (°R)	Diff (%)
32	36.4	492	496.4	0.89%
32	36.2	492	496.2	0.85%

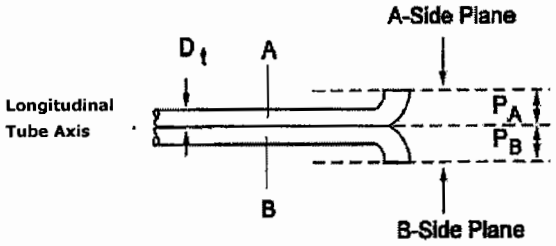
(Tolerance ± 1.5%)

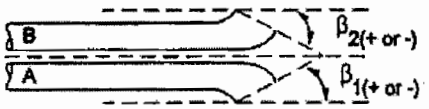
Percent Difference = $\frac{\text{(Thermocouple Temp. - Standard temp.)} \times 100}{\text{Standard Temp.}}$

Technician: Kevin Ewing **Date:** 11/4/2005

PITOT TUBE CALIBRATION

Date:	11/4/2005	**Geometrically Correct:**	Yes
Technician:	K. Ewing	**Ambient Temperature:**	70
Pitot ID:	P502	**Thermocouple ID:**	P502
		Temprature Standard:	Fluke 50D
		Standard Serial No.:	Ice Bath @ 5500' Elivation





$1.05\ D_t < P < 1.50\ D_t$

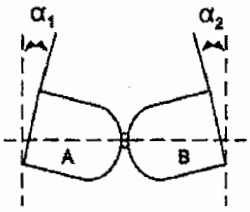
D_t =	0.375
1.05 x D_t =	0.39375
1.50 x D_t =	0.5625

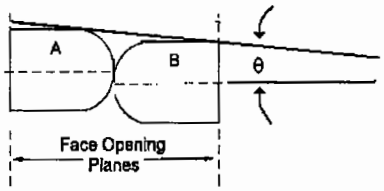
$P_A = P_B$

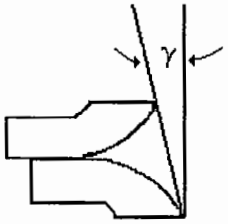
P_A =	0.438
P_B =	0.438

β_1 and $\beta_2 < 5°$

β_1 =	1
β_2 =	0.5







α_1 and $\alpha_2 < 10°$

α_1 =	1
α_2 =	1

$W < 0.0313$

θ =	1
W = A sin θ =	0.0152883

$Z < 0.125$

γ =	0.5
$A = P_A + P_B$ =	0.876
Z = A sin γ =	0.00764445

Standard Temperature (°F)	Measured Temperature (°F)	Standard Temperature (°R)	Pitot Measured (°R)	Diff (%)
32	36.4	492	496.4	0.89%
32	36.2	492	496.2	0.85%

(Tolerance ± 1.5%)

Percent Difference = $\frac{\text{(Thermocouple Temp. - Standard temp.) x 100}}{\text{Standard Temp.}}$

Technician: Kevin Ewing **Date:** 11/4/2005