

Initial System Bias Check, Run 2 STRATA Version 3.2

Operator: J Glass
Plant Name: ExxonMobil BTRF
Location: SCU2 T-601

Reference Cylinder Numbers

	Zero	Span
O2	CC321614	XC031366B
CO2	CC321614	XC031366B
CO	CC321614	CC334116
THC	CC321614	CC334116

Date/Time	07-07-2011		15:25:51	PASSED
Analyte	O2	CO2	CO	THC
Units	%	%	ppm	ppm
Zero Ref Cyl	0.000	0.000	0.00	0.00
Zero Cal	0.085	0.009	0.49	0.27
Zero Avg	0.237	0.052	0.87	-0.71
Zero Bias%	0.7%	0.2%	0.1%	0.2%
Zero Drift%				
Span Ref Cyl	10.000	10.010	201.80	266.60
Span Cal	10.025	10.124	203.62	269.28
Span Avg	10.010	9.919	197.94	263.47
Span Bias%	0.1%	1.0%	1.4%	1.2%
Span Drift%				

System Bias Check End

	O2 %	CO2 %	CO ppm	THC ppm
Begin calculating run averages				
07-07-2011 15:30:27	0.219	7.913	322.86	32.84
07-07-2011 15:31:27	0.214	7.969	328.92	33.49
07-07-2011 15:32:27	0.226	8.009	334.52	33.50
07-07-2011 15:33:27	0.218	8.017	345.72	34.13
07-07-2011 15:34:27	0.226	8.015	344.66	33.67
07-07-2011 15:35:26	0.217	7.892	345.24	34.21
07-07-2011 15:36:26	0.223	7.913	345.11	32.09
07-07-2011 15:37:26	0.226	7.915	331.41	32.82
07-07-2011 15:38:26	0.227	7.947	318.50	32.54
07-07-2011 15:39:26	0.221	7.809	313.14	31.20
07-07-2011 15:40:26	0.226	7.840	318.77	31.15
07-07-2011 15:41:26	0.227	7.904	315.33	31.32
07-07-2011 15:42:26	0.216	7.928	301.99	30.76
07-07-2011 15:43:26	0.226	7.917	299.30	29.90
07-07-2011 15:44:26	0.222	7.859	310.28	31.82
07-07-2011 15:45:26	0.227	7.938	320.83	31.39
07-07-2011 15:46:26	0.219	7.927	321.73	32.12
07-07-2011 15:47:26	0.226	7.998	332.67	31.96
07-07-2011 15:48:26	0.223	7.999	352.31	33.34
07-07-2011 15:49:26	0.234	7.999	356.62	34.11
07-07-2011 15:50:26	0.226	7.981	363.06	33.60
07-07-2011 15:51:26	0.223	7.912	352.37	32.01
07-07-2011 15:52:26	0.233	7.851	345.08	33.41
07-07-2011 15:53:26	0.221	7.851	344.21	32.99
07-07-2011 15:54:26	0.228	7.908	331.71	31.73
07-07-2011 15:55:26	0.227	7.877	321.71	31.83
07-07-2011 15:56:26	0.228	7.868	323.98	30.06
07-07-2011 15:57:26	0.224	7.878	323.27	31.89
07-07-2011 15:58:26	0.232	7.860	316.87	32.09
07-07-2011 15:59:26	0.231	7.856	323.75	31.63
07-07-2011 16:00:26	0.231	7.937	329.00	32.31
07-07-2011 16:01:26	0.224	7.921	338.84	32.24
07-07-2011 16:02:26	0.236	7.988	358.65	33.20
07-07-2011 16:03:26	0.230	7.967	364.97	33.00
07-07-2011 16:04:26	0.235	7.944	357.68	31.18
07-07-2011 16:05:26	0.229	7.865	352.54	32.35
07-07-2011 16:06:26	0.236	7.838	349.08	31.97
07-07-2011 16:07:27	0.231	7.846	341.17	31.83
07-07-2011 16:08:27	0.227	7.876	330.37	31.36
07-07-2011 16:09:27	0.231	7.884	314.34	30.28
07-07-2011 16:10:27	0.229	7.856	311.15	31.56
07-07-2011 16:11:27	0.230	7.885	316.15	30.43
07-07-2011 16:12:27	0.227	7.898	310.10	30.95
07-07-2011 16:13:27	0.234	7.893	310.25	30.05
07-07-2011 16:14:27	0.234	7.936	321.72	31.54
07-07-2011 16:15:27	0.231	7.945	332.41	32.24
07-07-2011 16:16:27	0.235	8.008	347.66	32.11
07-07-2011 16:17:27	0.228	7.986	351.14	33.30
07-07-2011 16:18:27	0.238	8.003	348.42	33.93
07-07-2011 16:19:27	0.227	7.896	352.05	33.07
07-07-2011 16:20:27	0.235	7.907	344.57	31.78
07-07-2011 16:21:27	0.224	7.907	331.06	32.10
07-07-2011 16:22:27	0.234	7.932	316.10	30.65
07-07-2011 16:23:27	0.226	7.862	311.87	32.54
07-07-2011 16:24:25	0.221	7.860	320.43	32.44
07-07-2011 16:25:25	0.230	7.879	311.74	31.03
07-07-2011 16:26:26	0.233	7.848	311.84	33.30
07-07-2011 16:27:26	0.230	7.876	323.23	32.59
07-07-2011 16:28:26	0.229	7.881	322.09	33.05
07-07-2011 16:29:26	0.233	7.831	314.37	31.02
Run Averages	O2 %	CO2 %	CO ppm	THC ppm
07-07-2011 16:29:26	0.228	7.912	330.84	32.15

Operator: J Glass
 Plant Name: ExxonMobil BTRF
 Location: SCU2 T-601
 Test Run 2 End

Final System Bias Check, Run 2 STRATA Version 3.2

Operator: J Glass
Plant Name: ExxonMobil BTRF
Location: SCU2 T-601

	Reference Cylinder Numbers	
	Zero	Span
O2	CC321614	XC031366B
CO2	CC321614	XC031366B
CO	CC321614	CC334116
THC	CC321614	CC334116

Date/Time	07-07-2011	16:44:05	PASSED	
Analyte	O2	CO2	CO	THC
Units	%	%	ppm	ppm
Zero Ref Cyl	0.000	0.000	0.00	0.00
Zero Cal	0.085	0.009	0.49	0.27
Zero Avg	0.255	0.011	0.87	-1.00
Zero Bias%	0.8%	0.0%	0.1%	0.3%
Zero Drift%	0.1%	-0.2%	0.0%	-0.1%
Span Ref Cyl	10.000	10.010	201.80	266.60
Span Cal	10.025	10.124	203.62	269.28
Span Avg	10.021	9.989	196.70	264.79
Span Bias%	0.0%	0.7%	1.7%	0.9%
Span Drift%	0.1%	0.4%	-0.3%	0.3%
Ini Zero Avg	0.237	0.052	0.87	-0.71
Ini Span Avg	10.010	9.919	197.94	263.47
Run Avg	0.228	7.912	330.84	32.15
Co	0.246	0.032	0.87	-0.86
Cm	10.016	9.954	197.32	264.13
Correct Avg	-0.019	7.950	338.96	33.21
System Bias Check End				

Calibration Error Test, Run 3 STRATA Version 3.2

Operator: J Glass
Plant Name: ExxonMobil BTRF
Location: SCU2 T-601

Reference Cylinder Numbers

	Zero	Low-range	Mid-range	High-range
O2	CC321614		XC031366B	CC183442
CO2	CC321614		XC031366B	CC183442
CO	CC321614		CC334116	CC40835N
THC	CC321614	CC128844	SG9165626BAL	SG9142486BAL

Date/Time 07-08-2011 07:43:42 PASSED

Analyte	O2	CO2	CO	THC
Units	%	%	ppm	ppm
Zero Ref Cyl	0.000	0.000	0.00	0.00
Zero Avg	0.162	0.062	0.51	0.30
Zero Error%	0.8%	0.3%	0.1%	0.3%
Low Ref Cyl				25.07
Low Avg				25.10
Low Error%				0.0%
Mid Ref Cyl	10.000	10.010	201.80	45.40
Mid Avg	10.119	10.041	200.21	45.47
Mid Error%	0.6%	0.2%	0.4%	0.1%
High Ref Cyl	20.440	19.820	404.20	85.74
High Avg	20.600	19.705	404.64	85.89
High Error%	0.8%	0.6%	0.1%	0.2%

Calibration Error Test End

Initial System Bias Check, Run 3 STRATA Version 3.2

Operator: J Glass
Plant Name: ExxonMobil BTRF
Location: SCU2 T-601

Reference Cylinder Numbers

	Zero	Span
O2	CC321614	XC031366B
CO2	CC321614	XC031366B
CO	CC321614	CC334116
THC	CC321614	SG9165626BAL

Date/Time	07-08-2011	07:54:47	PASSED	
Analyte	O2	CO2	CO	THC
Units	%	%	ppm	ppm
Zero Ref Cyl	0.000	0.000	0.00	0.00
Zero Cal	0.162	0.062	0.51	0.30
Zero Avg	0.108	0.031	0.50	-0.07
Zero Bias%	0.3%	0.2%	0.0%	0.4%
Zero Drift%				
Span Ref Cyl	10.000	10.010	201.80	45.40
Span Cal	10.119	10.041	200.21	45.47
Span Avg	9.980	9.919	197.24	45.55
Span Bias%	0.7%	0.6%	0.7%	0.1%
Span Drift%				

System Bias Check End

	O2 %	CO2 %	CO ppm	THC ppm
Begin calculating run averages				
07-08-2011 09:01:03	0.162	7.932	332.50	37.41
07-08-2011 09:02:03	0.167	7.870	338.79	36.66
07-08-2011 09:03:03	0.165	7.921	338.33	36.10
07-08-2011 09:04:03	0.183	7.958	325.93	35.91
07-08-2011 09:05:03	0.183	7.921	324.79	36.28
07-08-2011 09:06:02	0.182	7.971	332.73	36.33
07-08-2011 09:07:02	0.183	7.955	330.16	36.42
07-08-2011 09:08:02	0.182	8.005	329.87	36.87
07-08-2011 09:09:02	0.187	8.018	332.80	37.69
07-08-2011 09:10:02	0.191	8.039	348.86	38.27
07-08-2011 09:11:02	0.182	8.087	367.90	38.01
07-08-2011 09:12:02	0.189	8.086	366.58	38.80
07-08-2011 09:13:02	0.196	8.025	370.80	38.21
07-08-2011 09:14:02	0.194	7.963	368.47	37.27
07-08-2011 09:15:02	0.205	8.011	355.83	36.61
07-08-2011 09:16:02	0.204	7.952	338.30	36.60
07-08-2011 09:17:02	0.200	7.945	339.95	36.07
07-08-2011 09:18:02	0.205	7.969	329.05	36.19
07-08-2011 09:19:02	0.208	8.026	313.11	35.52
07-08-2011 09:20:02	0.203	7.973	311.84	36.33
07-08-2011 09:21:02	0.208	7.979	334.92	37.06
07-08-2011 09:22:02	0.208	8.053	342.61	36.20
07-08-2011 09:23:02	0.211	8.092	340.65	36.60
07-08-2011 09:24:02	0.211	8.071	349.14	37.80
07-08-2011 09:25:02	0.214	8.089	366.89	37.39
07-08-2011 09:26:02	0.210	8.112	368.08	37.38
07-08-2011 09:27:02	0.211	7.986	360.15	37.46
07-08-2011 09:28:02	0.218	8.005	369.63	37.11
07-08-2011 09:29:02	0.213	8.028	360.29	36.84
07-08-2011 09:30:02	0.214	7.990	339.37	36.02
07-08-2011 09:31:02	0.208	7.965	337.56	35.62
07-08-2011 09:32:02	0.214	7.966	337.94	35.30
07-08-2011 09:33:03	0.209	7.935	322.11	35.14
07-08-2011 09:34:03	0.211	8.010	320.69	34.97
07-08-2011 09:35:03	0.211	7.970	300.06	34.99
07-08-2011 09:36:03	0.207	7.932	299.34	35.32
07-08-2011 09:37:03	0.213	7.969	316.74	35.81
07-08-2011 09:38:03	0.215	7.947	331.71	36.71
07-08-2011 09:39:03	0.215	7.974	346.85	35.67
07-08-2011 09:40:03	0.213	8.070	350.91	35.95
07-08-2011 09:41:03	0.222	8.047	353.11	36.61
07-08-2011 09:42:01	0.216	8.050	370.56	36.41
07-08-2011 09:43:01	0.218	8.121	373.01	37.48
07-08-2011 09:44:01	0.219	7.970	367.14	37.24
07-08-2011 09:45:01	0.217	7.945	367.73	36.67
07-08-2011 09:46:01	0.216	8.029	349.91	35.87
07-08-2011 09:47:01	0.217	7.971	325.54	35.35
07-08-2011 09:48:01	0.219	7.968	328.70	35.12
07-08-2011 09:49:01	0.213	7.960	326.85	34.96
07-08-2011 09:50:01	0.219	7.938	317.60	34.92
07-08-2011 09:51:01	0.216	7.974	317.42	34.52
07-08-2011 09:52:01	0.219	8.015	322.81	34.29
07-08-2011 09:53:01	0.216	7.947	317.81	35.12
07-08-2011 09:54:01	0.219	7.988	326.27	34.98
07-08-2011 09:55:01	0.221	8.041	339.55	35.12
07-08-2011 09:56:01	0.219	8.057	346.37	35.86
07-08-2011 09:57:01	0.218	8.050	354.12	36.07
07-08-2011 09:58:01	0.219	8.057	368.61	35.26
07-08-2011 09:59:01	0.225	8.008	369.50	35.69
07-08-2011 10:00:02	0.219	7.978	349.23	35.30
Run Averages	O2 %	CO2 %	CO ppm	THC ppm
07-08-2011 10:00:02	0.206	7.998	341.38	36.26
Operator: J Glass				
Plant Name: ExxonMobil BTRF				
Location: SCU2 T-601				
Test Run 3 End				

Final System Bias Check, Run 3 STRATA Version 3.2

Operator: J Glass
 Plant Name: ExxonMobil BTRF
 Location: SCU2 T-601

Reference Cylinder Numbers

	Zero	Span
O2	CC321614	XC031366B
CO2	CC321614	XC031366B
CO	CC321614	CC334116
THC	CC321614	SG9165626BAL

Date/Time	07-08-2011	10:10:54	PASSED
Analyte	O2	CO2	CO
Units	%	%	ppm
Zero Ref Cyl	0.000	0.000	0.00
Zero Cal	0.162	0.062	0.51
Zero Avg	0.228	0.084	0.67
Zero Bias%	0.3%	0.1%	0.0%
Zero Drift%	0.6%	0.3%	0.0%
Span Ref Cyl	10.000	10.010	201.80
Span Cal	10.119	10.041	200.21
Span Avg	10.042	9.945	196.59
Span Bias%	0.4%	0.5%	0.9%
Span Drift%	0.3%	0.1%	-0.2%
Ini Zero Avg	0.108	0.031	0.50
Ini Span Avg	9.980	9.919	197.24
Run Avg	0.206	7.998	341.38
Co	0.168	0.057	0.58
Cm	10.011	9.932	196.91
Correct Avg	0.039	8.050	350.29
System Bias Check End			

	O2 %	CO2 %	CO ppm	THC ppm
Begin calculating run averages				
07-08-2011 11:27:42	0.297	8.043	365.57	34.41
07-08-2011 11:28:42	0.301	7.999	350.18	34.20
07-08-2011 11:29:42	0.296	7.949	342.51	34.16
07-08-2011 11:30:40	0.291	7.938	347.61	34.51
07-08-2011 11:31:40	0.277	7.965	348.77	32.80
07-08-2011 11:32:40	0.281	8.004	334.98	32.73
07-08-2011 11:33:41	0.283	7.998	319.04	33.50
07-08-2011 11:34:41	0.283	7.984	319.04	33.28
07-08-2011 11:35:41	0.289	7.975	327.02	33.73
07-08-2011 11:36:41	0.282	7.930	335.20	33.04
07-08-2011 11:37:41	0.281	7.966	337.43	32.52
07-08-2011 11:38:41	0.285	7.975	329.51	33.17
07-08-2011 11:39:41	0.282	7.962	331.31	33.52
07-08-2011 11:40:41	0.286	8.011	330.89	33.06
07-08-2011 11:41:41	0.285	7.983	331.05	33.59
07-08-2011 11:42:41	0.291	8.054	345.72	33.68
07-08-2011 11:43:41	0.282	8.019	347.30	34.05
07-08-2011 11:44:41	0.292	8.046	356.41	33.88
07-08-2011 11:45:41	0.289	8.007	366.28	34.04
07-08-2011 11:46:41	0.282	8.011	368.17	33.48
07-08-2011 11:47:41	0.285	8.002	339.64	33.49
07-08-2011 11:48:41	0.286	7.917	325.02	33.57
07-08-2011 11:49:41	0.289	7.949	333.41	33.44
07-08-2011 11:50:41	0.286	7.970	323.30	33.09
07-08-2011 11:51:42	0.286	7.944	311.30	33.04
07-08-2011 11:52:42	0.285	7.891	318.16	32.47
07-08-2011 11:53:42	0.282	7.886	329.01	32.40
07-08-2011 11:54:42	0.285	7.960	323.51	32.66
07-08-2011 11:55:42	0.284	7.928	314.63	33.29
07-08-2011 11:56:42	0.285	8.005	326.06	32.95
07-08-2011 11:57:42	0.286	7.991	326.22	33.48
07-08-2011 11:58:42	0.284	7.997	337.68	34.04
07-08-2011 11:59:42	0.293	8.047	362.09	34.36
07-08-2011 12:00:42	0.285	7.985	373.63	34.07
07-08-2011 12:01:42	0.293	8.044	370.40	33.87
07-08-2011 12:02:42	0.289	7.980	348.59	33.90
07-08-2011 12:03:42	0.286	7.961	336.62	34.42
07-08-2011 12:04:42	0.288	7.899	343.48	34.62
07-08-2011 12:05:42	0.291	7.971	347.21	33.50
07-08-2011 12:06:42	0.289	8.034	337.80	32.74
07-08-2011 12:07:42	0.281	7.972	326.00	33.52
07-08-2011 12:08:42	0.284	7.985	333.33	33.82
07-08-2011 12:09:42	0.289	7.977	343.60	33.76
07-08-2011 12:10:42	0.289	7.974	347.77	34.15
07-08-2011 12:11:42	0.282	7.997	360.71	32.91
07-08-2011 12:12:42	0.289	8.121	356.94	33.38
07-08-2011 12:13:42	0.286	8.099	355.86	34.18
07-08-2011 12:14:42	0.292	8.029	358.13	34.42
07-08-2011 12:15:42	0.291	8.053	355.50	34.79
07-08-2011 12:16:42	0.289	8.002	356.77	34.20
07-08-2011 12:17:42	0.292	8.028	356.55	33.66
07-08-2011 12:18:42	0.286	8.049	341.19	33.02
07-08-2011 12:19:42	0.287	7.982	324.95	33.55
07-08-2011 12:20:42	0.291	8.016	331.43	32.60
07-08-2011 12:21:42	0.286	8.016	330.80	33.85
07-08-2011 12:22:42	0.286	7.971	327.78	33.32
07-08-2011 12:23:42	0.286	7.986	336.22	33.68
07-08-2011 12:24:42	0.295	8.063	344.30	33.28
07-08-2011 12:25:42	0.296	8.077	336.56	32.91
07-08-2011 12:26:42	0.289	8.027	333.63	33.41
Run Averages	O2 %	CO2 %	CO ppm	THC ppm
07-08-2011 12:26:42	0.287	7.993	340.34	33.55
Operator: J Glass				
Plant Name: ExxonMobil BTRF				
Location: SCU2 T-601				
Test Run 4 End				

Final System Bias Check, Run 4 STRATA Version 3.2

Operator: J Glass
 Plant Name: ExxonMobil BTRF
 Location: SCU2 T-601

Reference Cylinder Numbers

	Zero	Span
O2	CC321614	XC031366B
CO2	CC321614	XC031366B
CO	CC321614	CC334116
THC	CC321614	SG9165626BAL

Date/Time	07-08-2011	12:41:47	PASSED	
Analyte	O2	CO2	CO	THC
Units	%	%	ppm	ppm
Zero Ref Cyl	0.000	0.000	0.00	0.00
Zero Cal	0.162	0.062	0.51	0.30
Zero Avg	0.319	0.120	1.00	-1.14
Zero Bias%	0.8%	0.3%	0.1%	1.4%
Zero Drift%	0.4%	0.2%	0.1%	-0.4%
Span Ref Cyl	10.000	10.010	201.80	45.40
Span Cal	10.119	10.041	200.21	45.47
Span Avg	10.124	9.948	196.83	43.45
Span Bias%	0.0%	0.5%	0.8%	2.0%
Span Drift%	0.4%	0.0%	0.1%	-0.8%
Ini Zero Avg	0.228	0.084	0.67	-0.75
Ini Span Avg	10.042	9.945	196.59	44.20
Run Avg	0.287	7.993	340.34	33.55
Co	0.274	0.102	0.83	-0.94
Cm	10.083	9.946	196.71	43.83
Correct Avg	0.014	8.024	349.78	34.98
System Bias Check End				

	O2 %	CO2 %	CO ppm	THC ppm
Begin calculating run averages				
07-08-2011 13:57:22	0.316	8.002	322.92	32.92
07-08-2011 13:58:22	0.311	7.981	317.36	32.81
07-08-2011 13:59:22	0.314	7.993	310.56	32.32
07-08-2011 14:00:22	0.316	8.083	312.34	31.94
07-08-2011 14:01:22	0.316	8.021	293.32	32.25
07-08-2011 14:02:22	0.313	8.092	291.49	32.83
07-08-2011 14:03:22	0.320	8.229	323.71	33.74
07-08-2011 14:04:22	0.312	8.228	354.94	34.90
07-08-2011 14:05:22	0.321	8.229	381.26	34.80
07-08-2011 14:06:22	0.319	8.212	379.34	34.31
07-08-2011 14:07:22	0.307	8.133	363.52	33.91
07-08-2011 14:08:22	0.322	8.096	362.25	33.36
07-08-2011 14:09:22	0.316	8.093	354.32	33.44
07-08-2011 14:10:22	0.317	8.086	344.03	33.28
07-08-2011 14:11:22	0.316	8.112	336.86	33.25
07-08-2011 14:12:23	0.322	8.167	334.50	33.17
07-08-2011 14:13:23	0.318	8.095	331.74	33.34
07-08-2011 14:14:23	0.317	8.106	343.79	33.11
07-08-2011 14:15:23	0.316	8.128	341.34	31.73
07-08-2011 14:16:23	0.318	8.125	319.16	32.41
07-08-2011 14:17:23	0.317	8.070	321.31	32.56
07-08-2011 14:18:23	0.314	8.130	324.43	32.14
07-08-2011 14:19:23	0.315	8.109	318.83	32.79
07-08-2011 14:20:23	0.322	8.012	317.57	32.32
07-08-2011 14:21:23	0.316	8.090	311.84	31.36
07-08-2011 14:22:23	0.317	8.088	276.93	30.29
07-08-2011 14:23:23	0.315	8.127	254.70	30.12
07-08-2011 14:24:23	0.315	8.123	241.46	29.50
07-08-2011 14:25:23	0.318	8.180	237.64	29.37
07-08-2011 14:26:24	0.314	8.368	227.28	29.85
07-08-2011 14:27:24	0.312	8.307	215.42	31.09
07-08-2011 14:28:24	0.315	8.340	258.98	32.81
07-08-2011 14:29:24	0.316	8.292	317.28	33.66
07-08-2011 14:30:24	0.320	8.233	356.42	34.16
07-08-2011 14:31:24	0.321	8.299	383.93	34.91
07-08-2011 14:32:24	0.321	8.249	386.80	35.77
07-08-2011 14:33:24	0.317	8.163	392.05	35.78
07-08-2011 14:34:24	0.324	8.145	396.83	35.24
07-08-2011 14:35:24	0.321	8.046	381.90	35.31
07-08-2011 14:36:24	0.320	8.032	380.00	35.33
07-08-2011 14:37:24	0.319	7.999	383.78	34.61
07-08-2011 14:38:24	0.319	8.012	381.51	34.50
07-08-2011 14:39:22	0.323	8.045	366.59	33.96
07-08-2011 14:40:22	0.322	7.970	362.64	34.38
07-08-2011 14:41:22	0.322	8.025	365.19	34.18
07-08-2011 14:42:22	0.324	7.990	358.49	34.00
07-08-2011 14:43:22	0.320	8.061	364.92	34.70
07-08-2011 14:44:22	0.324	8.049	369.34	35.06
07-08-2011 14:45:22	0.321	8.079	379.25	35.42
07-08-2011 14:46:22	0.323	8.112	387.91	36.24
07-08-2011 14:47:22	0.325	8.101	395.79*	36.31
07-08-2011 14:48:22	0.320	8.031	406.82*	36.05
07-08-2011 14:49:22	0.319	8.016	400.35	35.45
07-08-2011 14:50:22	0.324	8.080	382.91	34.82
07-08-2011 14:51:22	0.325	8.040	373.69	35.37
07-08-2011 14:52:22	0.320	7.920	372.54	35.09
07-08-2011 14:53:22	0.325	7.979	380.88	34.78
07-08-2011 14:54:22	0.322	8.015	379.40	34.67
07-08-2011 14:55:22	0.322	8.017	377.91	34.31
07-08-2011 14:56:22	0.323	8.018	376.60	35.56
Run Averages	O2 %	CO2 %	CO ppm	THC ppm
07-08-2011 14:56:23	0.319	8.103	343.10*	33.63
Operator:	J Glass			
Plant Name:	ExxonMobil BTRF			
Location:	SCU2 T-601			
Test Run 5 End				

Final System Bias Check, Run 5 STRATA Version 3.2

Operator: J Glass
 Plant Name: ExxonMobil BTRF
 Location: SCU2 T-601

Reference Cylinder Numbers

	Zero	Span
O2	CC321614	XC031366B
CO2	CC321614	XC031366B
CO	CC321614	CC334116
THC	CC321614	SG9165626BAL

Date/Time	07-08-2011	15:11:46	PASSED
Analyte	O2	CO2	CO
Units	%	%	ppm
Zero Ref Cyl	0.000	0.000	0.00
Zero Cal	0.162	0.062	0.51
Zero Avg	0.341	0.066	0.58
Zero Bias%	0.9%	0.0%	0.0%
Zero Drift%	0.1%	-0.3%	-0.1%
Span Ref Cyl	10.000	10.010	201.80
Span Cal	10.119	10.041	200.21
Span Avg	10.133	9.933	194.00
Span Bias%	0.1%	0.5%	1.5%
Span Drift%	0.0%	-0.1%	-0.7%
Ini Zero Avg	0.319	0.120	1.00
Ini Span Avg	10.124	9.948	196.83
Run Avg	0.319	8.103	343.10
Co	0.330	0.093	0.79
Cm	10.128	9.940	195.42
Correct Avg	-0.011	8.142	354.93
System Bias Check End			

	O2 %	CO2 %	CO ppm	THC ppm
Begin calculating run averages				
07-08-2011 16:24:19	0.345	8.141	325.56	32.75
07-08-2011 16:25:19	0.339	8.068	336.40	33.05
07-08-2011 16:26:17	0.341	8.132	340.97	32.43
07-08-2011 16:27:17	0.336	8.187	337.21	33.17
07-08-2011 16:28:17	0.338	8.117	332.85	33.43
07-08-2011 16:29:17	0.341	8.168	343.32	33.13
07-08-2011 16:30:18	0.345	8.247	342.47	33.81
07-08-2011 16:31:18	0.339	8.169	343.07	34.52
07-08-2011 16:32:18	0.339	8.177	363.17	34.42
07-08-2011 16:33:18	0.345	8.144	368.65	33.64
07-08-2011 16:34:18	0.337	8.119	360.82	34.08
07-08-2011 16:35:18	0.343	8.172	354.59	34.59
07-08-2011 16:36:18	0.344	8.097	342.18	35.13
07-08-2011 16:37:18	0.338	8.120	340.78	34.56
07-08-2011 16:38:18	0.347	8.075	336.98	33.16
07-08-2011 16:39:17	0.339	8.049	347.08	33.28
07-08-2011 16:40:17	0.339	8.083	354.94	34.93
07-08-2011 16:41:17	0.340	8.080	353.38	35.04
07-08-2011 16:42:17	0.342	8.074	346.87	33.44
07-08-2011 16:43:18	0.337	8.019	334.45	34.99
07-08-2011 16:44:18	0.340	8.072	343.57	35.10
07-08-2011 16:45:18	0.338	8.163	358.19	34.17
07-08-2011 16:46:18	0.346	8.195	379.78	36.13
07-08-2011 16:47:18	0.338	8.155	399.95*	36.83
07-08-2011 16:48:19	0.347	8.213	402.55*	36.58
07-08-2011 16:49:19	0.341	8.170	393.14	36.26
07-08-2011 16:50:19	0.343	8.107	382.89	36.78
07-08-2011 16:51:19	0.340	8.006	377.47	36.13
07-08-2011 16:52:19	0.341	8.094	379.03	35.44
07-08-2011 16:53:19	0.343	8.115	366.85	34.77
07-08-2011 16:54:19	0.338	8.028	357.90	34.25
07-08-2011 16:55:19	0.342	8.080	372.25	34.78
07-08-2011 16:56:19	0.346	8.063	367.24	33.51
07-08-2011 16:57:17	0.339	8.025	365.26	36.06
07-08-2011 16:58:17	0.347	8.053	372.89	35.38
07-08-2011 16:59:17	0.338	8.054	378.30	35.40
07-08-2011 17:00:17	0.349	8.086	375.62	34.79
07-08-2011 17:01:17	0.338	8.036	375.95	35.63
07-08-2011 17:02:17	0.344	8.141	390.78	35.59
07-08-2011 17:03:17	0.343	8.101	387.34	36.31
07-08-2011 17:04:17	0.341	8.121	399.78*	36.76
07-08-2011 17:05:17	0.341	8.098	392.15	34.39
07-08-2011 17:06:18	0.340	8.024	372.96	35.99
07-08-2011 17:07:18	0.345	8.035	373.95	35.72
07-08-2011 17:08:18	0.338	7.959	368.74	34.65
07-08-2011 17:09:18	0.344	8.008	363.69	34.73
07-08-2011 17:10:18	0.345	8.032	361.93	34.90
07-08-2011 17:11:18	0.344	8.007	350.16	33.18
07-08-2011 17:12:18	0.340	8.019	347.76	34.99
07-08-2011 17:13:18	0.349	8.007	354.80	34.77
07-08-2011 17:14:18	0.341	7.962	356.43	34.42
07-08-2011 17:15:19	0.347	8.042	361.46	34.83
07-08-2011 17:16:19	0.341	8.016	364.22	33.89
07-08-2011 17:17:19	0.348	8.077	366.54	34.86
07-08-2011 17:18:19	0.341	8.052	362.64	34.90
07-08-2011 17:19:19	0.345	8.107	366.93	34.92
07-08-2011 17:20:19	0.342	8.098	378.11	35.58
07-08-2011 17:21:19	0.345	8.030	384.01	35.68
07-08-2011 17:22:19	0.350	8.029	384.92	36.41
07-08-2011 17:23:19	0.345	8.008	377.13	35.03
Run Averages	O2 %	CO2 %	CO ppm	THC ppm
07-08-2011 17:23:19	0.342	8.085	363.68*	34.80
Operator:	J Glass			
Plant Name:	ExxonMobil BTRF			
Location:	SCU2 T-601			
Test Run 6 End				

Final System Bias Check, Run 6 STRATA Version 3.2

Operator: J Glass
Plant Name: ExxonMobil BTRF
Location: SCU2 T-601

Reference Cylinder Numbers

	Zero	Span
O2	CC321614	XC031366B
CO2	CC321614	XC031366B
CO	CC321614	CC334116
THC	CC321614	SG9165626BAL

Date/Time 07-08-2011 17:33:39 PASSED

Analyte	O2	CO2	CO	THC
Units	%	%	ppm	ppm
Zero Ref Cyl	0.000	0.000	0.00	0.00
Zero Cal	0.162	0.062	0.51	0.30
Zero Avg	0.357	0.057	0.52	-0.11
Zero Bias%	1.0%	0.0%	0.0%	0.4%
Zero Drift%	0.1%	0.0%	0.0%	-0.1%
Span Ref Cyl	10.000	10.010	201.80	45.40
Span Cal	10.119	10.041	200.21	45.47
Span Avg	10.137	9.873	192.95	44.26
Span Bias%	0.1%	0.8%	1.8%	1.2%
Span Drift%	0.0%	-0.3%	-0.3%	0.5%

Ini Zero Avg	0.341	0.066	0.58	0.00
Ini Span Avg	10.133	9.933	194.00	43.72
Run Avg	0.342	8.085	363.68	34.80
Co	0.349	0.061	0.55	-0.05
Cm	10.135	9.903	193.48	43.99
Correct Avg	-0.007	8.161	379.83	35.93
System Bias Check End				



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CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Specialty Gases
 1075 Cinclare Drive
 Port Allen, LA 70767
 225.388.0900
 FAX: 225.388.0959
 www.airgas.com

Customer: TRC
 Part Number: E04NI99E15A7104
 Cylinder Number: CC128844
 Laboratory: ASG - Port Allen - LA
 PGVP Number: B42011
 Analysis Date: May 14, 2011

Reference Number: 83-124265617-1
 Cylinder Volume: 144 Cu.Ft.
 Cylinder Pressure: 2015 PSIG
 Valve Outlet: 660

Expiration Date: May 14, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
 Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
NOx	25.00 PPM	25.23 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	25.00 PPM	25.11 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	25.00 PPM	24.60 PPM	G1	+/- 1% NIST Traceable
PROPANE	25.00 PPM	25.07 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	07060301	CC207827	17.25PPM NITRIC OXIDE/NITROGEN	Sep 01, 2011
NTRM	07060301NOX	CC207827	17.38PPM NOx/NITROGEN	Sep 01, 2011
NTRM	99060203	CC263030	49.62PPM PROPANE/NITROGEN	Jul 08, 2012
NTRM	99061210	XC018697B	24.33PPM CARBON MONOXIDE/NITROGEN	Jul 01, 2014
NTRM	08060713	CC207827	17.25PPM NITRIC OXIDE/NITROGEN	May 01, 2013
NTRM	08060713NOX	CC207827	17.38PPM NOx/NITROGEN	May 01, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801556 LCO	FTIR	May 11, 2011
CNOGL	Chemiluminescence	Apr 18, 2011
CNOxGL	Chemiluminescence	Apr 18, 2011
Nicolet 6700 AHR0801556 L1C3H8	FTIR	Apr 26, 2011

Triad Data Available Upon Request

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	TRC	Reference Number:	83-124253902-8
Part Number:	E04NI99E15A3528	Cylinder Volume:	144 Cu.Ft.
Cylinder Number:	SG9165626BAL	Cylinder Pressure:	2015 PSIG
Laboratory:	ASG - Port Allen - LA	Valve Outlet:	660
PGVP Number:	B42011	Analysis Date:	Mar 04, 2011

Expiration Date: Mar 04, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
PROPANE	45.00 PPM	45.40 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	50.00 PPM	50.24 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	50.00 PPM	49.98 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

50.62 PPM

For Reference Only

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	05120312	CC180109	49.33PPM CARBON MONOXIDE/NITROGEN	Feb 02, 2013
NTRM	99060203	CC263030	49.62PPM PROPANE/NITROGEN	Jul 08, 2012
NTRM	10061119	cc283757	49.73PPM NITRIC OXIDE/NITROGEN	Jul 23, 2016

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700-AHR0801556 LCO	FTIR	Feb 21, 2011
Nicolet 6700-AHR0801556 LNO	FTIR	Feb 28, 2011
Nicolet 6700-AHR0801556 L2C3H8	FTIR	Feb 22, 2011

Triad Data Available Upon Request

Notes: SEQUENCE 2

TRC p.o. 30841

"STOCK BY CONCENTRATION"

Signature on file

Approved for Release

Page 1 of 83-124253902-8

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number: E04NI99E15A38H6	Reference Number: 54-124247957-1
Cylinder Number: SG9142486BAL	Cylinder Volume: 144 Cu.Ft.
Laboratory: ASG - Chicago - IL	Cylinder Pressure: 2015 PSIG
PGVP Number: B12011	Valve Outlet: 660
	Analysis Date: Jan 19, 2011

Expiration Date: Jan 19, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
PROPANE	85.00 PPM	85.74 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	100.0 PPM	99.75 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	100.0 PPM	99.60 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

99.71 PPM

For Reference Only

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM/NO	09060802	CC267505	94.26PPM NITRIC OXIDE/NITROGEN	Mar 15, 2011
NTRM/CO	9060512	CC280458	98.88PPM CARBON MONOXIDE/	Feb 01, 2013
NTRM/C3H8	09061739	CC310580	97.82PPM PROPANE/AIR	Oct 02, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nexus 470 AEP0000428	FTIR	Dec 25, 2010
Nexus 470 AEP0000428	FTIR	Dec 25, 2010
Nexus 470 AEP0000428	FTIR	Dec 25, 2010

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	TRC	Reference Number:	83-124244061-15
Part Number:	E04NI99E15A41H7	Cylinder Volume:	144 Cu.Ft.
Cylinder Number:	CC334116	Cylinder Pressure:	2015 PSIG
Laboratory:	ASG - Port Allen - LA	Valve Outlet:	660
PGVP Number:	B42011	Analysis Date:	Dec 15, 2010

Expiration Date: Dec 15, 2012

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON MONOXIDE	200.0 PPM	201.8 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	200.0 PPM	195.0 PPM	G1	+/- 1% NIST Traceable
PROPANE	270.0 PPM	266.6 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

196.2 PPM

For Reference Only

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060333	cc255642	250.0PPM CARBON MONOXIDE/NITROGEN	Apr 15, 2012
NTRM	09060926	cc269072	95.66PPM NITRIC OXIDE/NITROGEN	May 13, 2011
NTRM	99060508	XC014343B	248.9PPM PROPANE/AIR	Oct 02, 2011

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801556 M1CO	FTIR	Dec 14, 2010
Nicolet 6700 AHR0801556 M1NO	FTIR	Dec 14, 2010
Nicolet 6700 AHR0801556 M1C3H8	FTIR	Nov 01, 2010

Triad Data Available Upon Request

Notes:PO 29114

STOCK BY CONCENTRATION

Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	TRC	Reference Number:	83-124266936-8
Part Number:	E04NI99E15A41D4	Cylinder Volume:	144 Cu.Ft.
Cylinder Number:	CC40835N	Cylinder Pressure:	2015 PSIG
Laboratory:	ASG - Port Allen - LA	Valve Outlet:	660
PGVP Number:	B42011	Analysis Date:	May 31, 2011

Expiration Date: May 31, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON MONOXIDE	400.0 PPM	404.2 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	400.0 PPM	407.5 PPM	G1	+/- 1% NIST Traceable
PROPANE	450.0 PPM	437.7 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

407.7 PPM

For Reference Only

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	05120505	CC180350	495.8PPM CARBON MONOXIDE/NITROGEN	Feb 02, 2013
NTRM	10060416	CC268092	495.6PPM NITRIC OXIDE/NITROGEN	Jan 01, 2016
NTRM	10060531	cc281492	495.3PPM PROPANE/AIR	Feb 19, 2016
NTRM	11060111	CC330541	248.4PPM NITRIC OXIDE/NITROGEN	Jan 11, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801556 M1CO	FTIR	May 04, 2011
Nicolet 6700 AHR0801556 M2NO	FTIR	May 04, 2011
Nicolet 6700 AHR0801556 M2C3H8	FTIR	Apr 27, 2011

Triad Data Available Upon Request

Notes: Sequence 2

PO 33568

Stock by concentration

Signature on file

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	TRC	
Part Number:	E03NI80E15AC2K9	Reference Number: 83-124220057-1
Cylinder Number:	XC031366B	Cylinder Volume: 151 Cu.Ft.
Laboratory:	ASG - Port Allen - LA	Cylinder Pressure: 2015 PSIG
PGVP Number:	B42011	Valve Outlet: 590
		Analysis Date: May 20, 2010
Customer PO Number: 22932		

Expiration Date: May 20, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON DIOXIDE	10.00 %	10.01 %	G1	+/- 1% NIST Traceable
OXYGEN	10.00 %	10.00 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	00040210	CC108973	10.00% OXYGEN/NITROGEN	Oct 02, 2011
NTRM	97051008	SG9199013BAL	10.818% CARBON DIOXIDE/NITROGEN	May 15, 2012

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
SCO2GM	NonDispersive Infrared	Apr 29, 2010
HO2GH	PMO2	Apr 29, 2010

Triad Data Available Upon Request

Permanent Notes: STOCK BY CONCENTRATION

Notes: "STOCK BY CONCENTRATION"

Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	TRC	Reference Number:	83-124245870-1
Part Number:	E03NI60E15AC2Z9	Cylinder Volume:	160 Cu.Ft.
Cylinder Number:	CC183442	Cylinder Pressure:	2015 PSIG
Laboratory:	ASG - Port Allen - LA	Valve Outlet:	590
PGVP Number:	B42011	Analysis Date:	Dec 22, 2010
Customer PO Number: 29431			

Expiration Date: Dec 22, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON DIOXIDE	20.00 %	19.82 %	G1	+/- 1% NIST Traceable
OXYGEN	20.00 %	20.44 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08061330	cc255640	20.09% CARBON DIOXIDE/NITROGEN	Jul 15, 2012
NTRM	09061403	cc267736	22.53% OXYGEN/NITROGEN	Aug 01, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
SCO2GM	NonDispersive Infrared	Nov 23, 2010
HO2GH	PMO2	Dec 09, 2010

Triad Data Available Upon Request

Permanent Notes: STOCK BY CONCENTRATION

Notes: STOCK BY CONCENTRATION

Signature on file

Approved for Release

**APPENDIX E: EPA METHODS 15 AND 16B SPECIATED SULFUR COMPOUNDS
AND TRS DATA**

ExxonMobil BTRF SCU2 ICR Test - Sulfur Compounds Summary

		MW		34.08	60.07	76.14				
	Date	Time	Moisture (%)	H2S ppmv, wet	H2S ppmv, dry	COS ppmv, wet	COS ppmv, dry	CS2 ppmv, wet	CS2 ppmv, dry	TRS ppmv, dry
Run 1	7/7/2011	11:32 - 15:49	6.73	1.1836	1.2632	6.5917	7.0353	0.0617	0.0658	7.8369
Run 2	7/8/2011	09:08 - 12:50	7.09	1.4121	1.5122	10.0193	10.7296	0.0000	0.0500	11.4313
Run 3	7/8/2011	13:57 - 16:41	8.90	1.3957	1.5199	10.9360	11.9093	0.0000	0.0500	12.3317
Average:			7.57	1.3305	1.4318	9.1823	9.8914	0.0206	0.0553	10.5333

Flow Rate

Run 1	4312795	lb/hr
Run 2	4252262	0.48
Run 3	4289786	0.57
		0.58

lb/hr
4.73
7.11
7.96

lb/hr
0.06
0.04
0.04

lb/hr
5.27
7.72
8.58

0777


 SUBJECT Exxon Mobil SRU T601 ICR
GC m-15
SHEET NO. 1 OF PROJECT NO. DATE 7/2/11BY 147 JGCHK'D

Time	CHK	Gas / Events	Comment
0720	156	50 112-02 112-02	H ₂ S-56-29854, COS-59-38912
0730	157	" "	+ CS ₂ -89-38918
0739	158	" "	Perm Oven @ 35.00°C
0748	159	" "	@ 23°C Split H ₂ S = 31.2
0757	160	" "	COS = 38.0
0805	161	90	CS ₂ = 13.0
0815	162	" "	H ₂ S = 15.4
0824	163	" "	COS = 18.8
0833	164	" "	CS ₂ = 6.73
0845	165	150	H ₂ S = 9.42
0855	166	150	COS = 11.5
0903	167	" "	CS ₂ = 3.74
0912	168	SS 092-04	35 H ₂ S = 3.88
0923	169	SS	COS = 4.24
0933	170	" "	CS ₂ = 1.62
0943	171	" "	
1000	172	" "	
1035	173	" "	
1050	174	" "	
1101	175	" "	
1112	176	" "	
1122	177	" "	
1132	178	Begin Run 1 T601	
1549	194	End Run 1 T601	
1645	195	50 112-02	Post test cal.
1654	196	" "	" " "
1739	197	" "	" " "
1748	178	" "	" " "
	7/8/11		
0709	199	50 112-02	NG-not stable @ inj
0717	200	" "	
0726	201	" "	
0735	202	" "	
0746	203	90	
0756	204	" "	

512-565-5342 1980 x1020

SHEET NO. 2 OF

PROJECT NO.

DATE 7/8/11

BY KJ/OG

CHK'D



SUBJECT Eppon Multi SRUT601 ICR
GC - m-15

Time	CHR	Gas/Event	Comment
0805	205	90 112-02	
0814	206	SS 092-04	
0823	207	" "	
0832	208	" "	
0841	209	" "	
0850	210	" "	
0859	211	" "	
0908	212	Begin Run 2	
1250	228	End Run 2	
1259 1316	229	SS 092-04	
1325	230	" "	
1334	231	" "	
1343	232		
1357	233	Begin Run 3	
1641	249	End Run 3	
250-257	257	SS 092-04	
1804	258	" "	Recovery Study
1813	259	" "	" "
1822	260	" "	" "

ExxonMobil BTRF
SCU2 T601 TRS RATA

Method 15 TRS GC DATA LOG

Line-Loss
Corrected
TRS (ppmv)

Filename	Description	Date	Time	Cmpnd	RT (min)	Area	Conc.	Units	Cmpnd	RT (min)	Area	Conc.	Units	Cmpnd	RT (min)	Area	Conc.	Units
T-601 FPD GC-1 146 CHR		7/6/2011	14:46:24 H2S		1.088	6723.5362	39.0949	ppmv	COS	1.621	14257.3344	55.3493	ppmv	CS2	5.086	5143.3624	22.1843	ppmv
T-601 FPD GC-1 147 CHR		7/6/2011	14:55:14 H2S		1.061	6070.0744	36.9672	ppmv	COS	1.595	12703.9456	51.5273	ppmv	CS2	5.078	4464.3748	20.1904	ppmv
T-601 FPD GC-1 148 CHR		7/6/2011	15:06:26 H2S		1.085	6250.3479	37.5542	ppmv	COS	1.618	12529.1619	51.0973	ppmv	CS2	5.086	4350.3648	19.8556	ppmv
T-601 FPD GC-1 149 CHR		7/6/2011	15:18:58 H2S		1.085	6569.2034	38.5924	ppmv	COS	1.62	12612.9401	51.3034	ppmv	CS2	5.086	4506.3909	20.3138	ppmv
T-601 FPD GC-1 150 CHR		7/6/2011	15:29:57 H2S		1.083	6029.1534	36.834	ppmv	COS	1.618	11881.1374	49.5028	ppmv	CS2	5.085	4288.8546	19.6749	ppmv
T-601 FPD GC-1 151 CHR		7/6/2011	15:42:08 H2S		1.086	7033.5465	40.1043	ppmv	COS	1.62	12974.7304	52.1935	ppmv	CS2	5.088	4860.4502	21.3535	ppmv
T-601 FPD GC-1 152 CHR		7/6/2011	15:52:27 H2S		1.091	6974.4224	39.9118	ppmv	COS	1.623	12680.2145	51.4689	ppmv	CS2	5.085	4815.397	21.2212	ppmv
T-601 FPD GC-1 153 CHR		7/6/2011	16:21:51 H2S		1.083	8362.4845	44.4313	ppmv	COS	1.618	15006.4303	57.1924	ppmv	CS2	5.088	6069.0808	24.9029	ppmv
T-601 FPD GC-1 154 CHR		7/6/2011	16:34:57 H2S		1.085	6365.4053	37.9288	ppmv	COS	1.623	11806.142	49.3183	ppmv	CS2	5.095	4662.2316	20.7714	ppmv
T-601 FPD GC-1 155 CHR		7/6/2011	17:59:11 H2S		1.088	6218.7818	37.4514	ppmv	COS	1.623	10262.9496	45.5214	ppmv	CS2	5.091	4892.1786	21.4467	ppmv
T-601 FPD GC-1 156 CHR		7/7/2011	7:20:04 H2S		1.088	5382.7402	34.7293	ppmv	COS	1.62	10262.9496	45.5214	ppmv	CS2	5.088	4469.0385	20.2041	ppmv
T-601 FPD GC-1 157 CHR		7/7/2011	7:29:48 H2S		1.08	6038.8002	36.8654	ppmv	COS	1.611	10317.8352	45.6565	ppmv	CS2	5.08	4333.8649	19.8071	ppmv
T-601 FPD GC-1 158 CHR		7/7/2011	7:39:12 H2S		1.083	6599.7336	38.6918	ppmv	COS	1.613	10877.9333	47.0345	ppmv	CS2	5.078	4590.0322	20.5584	ppmv
T-601 FPD GC-1 159 CHR		7/7/2011	7:47:53 H2S		1.058	6227.3258	37.4792	ppmv	COS	1.585	10457.9148	46.0011	ppmv	CS2	5.07	4314.7401	19.7509	ppmv
T-601 FPD GC-1 160 CHR		7/7/2011	7:56:40 H2S		1.048	7031.6024	40.098	ppmv	COS	1.576	11446.7156	48.434	ppmv	CS2	5.068	4767.8956	21.0817	ppmv
T-601 FPD GC-1 161 CHR		7/7/2011	8:05:19 H2S		1.053	1450.2295	19.868	ppmv	COS	1.583	2719.3702	24.4828	ppmv	CS2	5.071	1032.937	9.7574	ppmv
T-601 FPD GC-1 162 CHR		7/7/2011	8:14:57 H2S		1.08	1469.1884	19.9764	ppmv	COS	1.61	2756.6102	24.6313	ppmv	CS2	5.081	1075.1405	9.9259	ppmv
T-601 FPD GC-1 163 CHR		7/7/2011	8:24:31 H2S		1.076	1529.1422	20.3191	ppmv	COS	1.606	2852.9562	25.0153	ppmv	CS2	5.081	1094.9156	10.0048	ppmv
T-601 FPD GC-1 164 CHR		7/7/2011	8:33:05 H2S		1.051	1540.1736	20.3781	ppmv	COS	1.581	2836.143	24.9483	ppmv	CS2	5.075	1103.3208	10.0384	ppmv
T-601 FPD GC-1 165 CHR		7/7/2011	8:45:16 H2S		1.086	579.3762	13.597	ppmv	COS	1.62	1175.6809	16.7793	ppmv	CS2	5.09	439.262	6.7731	ppmv
T-601 FPD GC-1 166 CHR		7/7/2011	8:54:53 H2S		1.08	562.0158	13.4311	ppmv	COS	1.611	1132.6536	16.5067	ppmv	CS2	5.083	410.126	6.5823	ppmv
T-601 FPD GC-1 167 CHR		7/7/2011	9:03:29 H2S		1.05	568.8462	13.4964	ppmv	COS	1.578	1125.0772	16.4542	ppmv	CS2	5.075	416.2165	6.6222	ppmv
T-601 FPD GC-1 168 CHR		7/7/2011	9:12:58 H2S		1.081	63.9744	5.4386	ppmv	COS	1.613	145.2852	6.5011	ppmv	CS2	5.081	54.2067	2.7628	ppmv
T-601 FPD GC-1 169 CHR		7/7/2011	9:23:49 H2S		1.08	58.058	5.2239	ppmv	COS	1.615	139.6753	6.392	ppmv	CS2	5.083	50.9722	2.5892	ppmv
T-601 FPD GC-1 170 CHR		7/7/2011	9:33:45 H2S		1.08	58.1836	5.2285	ppmv	COS	1.613	138.697	6.373	ppmv	CS2	5.086	50.4877	2.6813	ppmv
T-601 FPD GC-1 171 CHR		7/7/2011	9:43:36 H2S		1.08	56.9406	5.1833	ppmv	COS	1.615	137.5604	6.3509	ppmv	CS2	5.083	49.9844	2.6703	ppmv
T-601 FPD GC-1 172 CHR		7/7/2011	10:00:02 H2S		1.085	57.4206	5.2008	ppmv	COS	1.623	134.9658	6.3004	ppmv	CS2	5.09	51.7256	2.7085	ppmv
T-601 FPD GC-1 173 CHR		7/7/2011	10:35:01 H2S		1.093	54.9626	5.1116	ppmv	COS	1.626	136.3526	6.3274	ppmv	CS2	5.088	49.5234	2.6802	ppmv
T-601 FPD GC-1 174 CHR		7/7/2011	10:49:57 H2S		1.09	53.2776	5.0504	ppmv	COS	1.625	133.2942	6.2679	ppmv	CS2	5.09	51.5746	2.7051	ppmv
T-601 FPD GC-1 175 CHR		7/7/2011	11:01:12 H2S		1.086	60.0184	5.295	ppmv	COS	1.623	143.5264	6.4658	ppmv	CS2	5.091	52.5222	2.7259	ppmv
T-601 FPD GC-1 176 CHR		7/7/2011	11:12:27 H2S		1.086	59.8588	5.2893	ppmv	COS	1.621	142.6998	6.4508	ppmv	CS2	5.09	50.4911	2.6814	ppmv
T-601 FPD GC-1 177 CHR		7/7/2011	11:22:27 H2S		1.078	61.9986	5.3669	ppmv	COS	1.611	143.4818	6.466	ppmv	CS2	5.09	52.55	2.7265	ppmv
T-601 FPD GC-1 178 CHR		7/7/2011	11:32:27 H2S		1.068	1.2378	0.9275	ppmv	COS	1.606	580.3266	12.2056	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 179 CHR		7/7/2011	11:42:27 H2S		0	0	0	ppmv	COS	1.603	465.2138	11.0309	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 180 CHR		7/7/2011	11:52:27 H2S		0	0	0	ppmv	COS	1.601	397.9776	10.2891	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 181 CHR		7/7/2011	12:02:27 H2S		0	0	0	ppmv	COS	1.605	447.7934	10.8492	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 182 CHR		7/7/2011	12:12:27 H2S		1.073	1.0057	0.7536	ppmv	COS	1.606	398.1932	10.2918	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 183 CHR		7/7/2011	12:22:28 H2S		1.068	1.9377	1.2547	ppmv	COS	1.61	329.1806	9.4346	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 184 CHR		7/7/2011	12:32:28 H2S		1.085	1.9648	1.2593	ppmv	COS	1.615	298.684	9.0558	ppmv	CS2	5.086	2.7622	0.7523	ppmv
T-601 FPD GC-1 185 CHR		7/7/2011	12:42:28 H2S		1.078	2.502	1.3515	ppmv	COS	1.611	341.3196	9.9854	ppmv	CS2	5.091	3.2584	0.7872	ppmv
T-601 FPD GC-1 186 CHR		7/7/2011	12:52:28 H2S		1.076	1.9083	1.2496	ppmv	COS	1.61	461.8728	10.9951	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 187 CHR		7/7/2011	13:02:28 H2S		1.121	2.401	1.342	ppmv	COS	1.675	523.8846	11.6429	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 188 CHR		7/7/2011	13:12:28 H2S		1.116	2.1902	1.298	ppmv	COS	1.67	437.4865	10.7417	ppmv	CS2	5.268	1.186	0.5286	ppmv
T-601 FPD GC-1 189 CHR		7/7/2011	13:22:28 H2S		1.115	2.3581	1.3268	ppmv	COS	1.68	433.7576	10.7028	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 190 CHR		7/7/2011	14:29:07 H2S		1.096	3.55	1.5314	ppmv	COS	1.641	486.8058	11.2561	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 191 CHR		7/7/2011	14:39:07 H2S		1.121	4.0154	1.6113	ppmv	COS	1.683	471.5664	11.0972	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 192 CHR		7/7/2011	14:49:07 H2S		1.111	4.5754	1.7075	ppmv	COS	1.66	482.8574	11.215	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 193 CHR		7/7/2011	15:19:08 H2S		0	0	0	ppmv	COS	0	0	0	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 194 CHR		7/7/2011	15:29:08 H2S		0	0	0	ppmv	COS	0	0	0	ppmv	CS2	0	0	0	ppmv
T-601 FPD GC-1 195 CHR		7/7/2011	15:39:08 H2S		1.098	1.3425	1.006	ppmv	COS	1.64	286.9281	8.8813	ppmv	CS2	5.006	125.4235	3.9681	ppmv
T-601 FPD GC-1 196 CHR		7/7/2011	15:49:08 H2S		1.103	3.9094	1.5931	ppmv	COS	1.64	397.0345	10.2774	ppmv	CS2	0	0	0	ppmv
Run 1 Averages:														0.316274				
T-601 FPD GC-1 195 CHR		7/7/2011	16:00:44 H2S		1.1	4667.9336	32.4019	ppmv	COS	1.641	7821.0616	39.5134	ppmv	CS2	5.108	2702.455	15.0162	ppmv

Perm Tube Calcs

Client ExxonMobil
 Source SCU T-601
 Method M-15
 Date 7/7/11
 Run # 1

Rotameter Setting	Bubble N2 Rate (ml/min)	Bubble Temp (Deg C)	Bubble Pressure (in Hg)	SCCM	H2S (ppmv)	COS (ppmv)	CS2 (ppmv)
4/27/2011							
50	239.5	23	29.92	237.1	31.2	38.03	13.04
90	485.4	23	29.92	480.5	15.37	18.77	6.43
150	792.4	23	29.92	784.4	9.42	11.50	3.94
55	1922	23	29.92	1902.5	3.88	4.74	1.62

Client ExxonMobil
Source SCU T-601
Method M-15
Date 7/7/2011
Run # 1

Pre-test Calibration

50

	square root of the area counts			area counts		
	H2S	COS	CS2	H2S	COS	CS2
area 1	81.23854	104.2972	67.74954	6599.7	10877.9	4590
area 2	78.97278	102.3382	65.68638	6236.7	10473.1	4314.7
area 3	83.85464	105.5524	69.04998	7031.6	11141.3	4767.9
Mean	81.35532	104.0626	67.4953			
5% of mean	4.067766	5.203128	3.374765			
% of mean						
area 1	0.143544	-0.22545	-0.37668			
area 2	2.928558	1.65708	2.680072			
area 3	-3.0721	-1.43163	-2.30339			

90

	square root of the area counts			area counts		
	H2S	COS	CS2	H2S	COS	CS2
area 1	38.08149	52.14787	32.13876	1450.2	2719.4	1032.9
area 2	38.33014	52.50333	32.78872	1469.2	2756.6	1075.1
area 3	39.10371	53.41255	33.08927	1529.1	2852.9	1094.9
Mean	38.50511	52.68792	32.67225			
5% of mean	1.925256	2.634396	1.633613			
% of mean						
area 1	1.100174	1.024995	1.632851			
area 2	0.454407	0.350331	-0.35647			
area 3	-1.55458	-1.37533	-1.27638			

150

	square root of the area counts			area counts		
	H2S	COS	CS2	H2S	COS	CS2
area 1	24.07073	34.28848	20.95948	579.4	1175.7	439.3
area 2	23.70654	33.65561	20.25093	562	1132.7	410.1
area 3	23.84953	33.54251	20.40098	568.8	1125.1	416.2
Mean	23.8756	33.82887	20.53713			
5% of mean	1.19378	1.691443	1.026857			
% of mean						
area 1	-0.81728	-1.35865	-2.05654			
area 2	0.708086	0.512161	1.393595			
area 3	0.109193	0.846486	0.662945			

55

	square root of the area counts			area counts		
	H2S	COS	CS2	H2S	COS	CS2
area 1	7.622336	11.81948	7.141428	58.1	139.7	51
area 2	7.628892	11.7771	7.106335	58.2	138.7	50.5
area 3	7.543209	11.7303	7.071068	56.9	137.6	50
Mean	7.598146	11.77562	7.106277			
5% of mean	0.379907	0.588781	0.355314			
% of mean						
area 1	-0.31837	-0.37238	-0.49465			
area 2	-0.40466	-0.0125	-0.00082			
area 3	0.723029	0.384881	0.495468			

Client ExxonMobil
Source SCU T-601
Method M-15
Date 7/7/2011
Run # 1

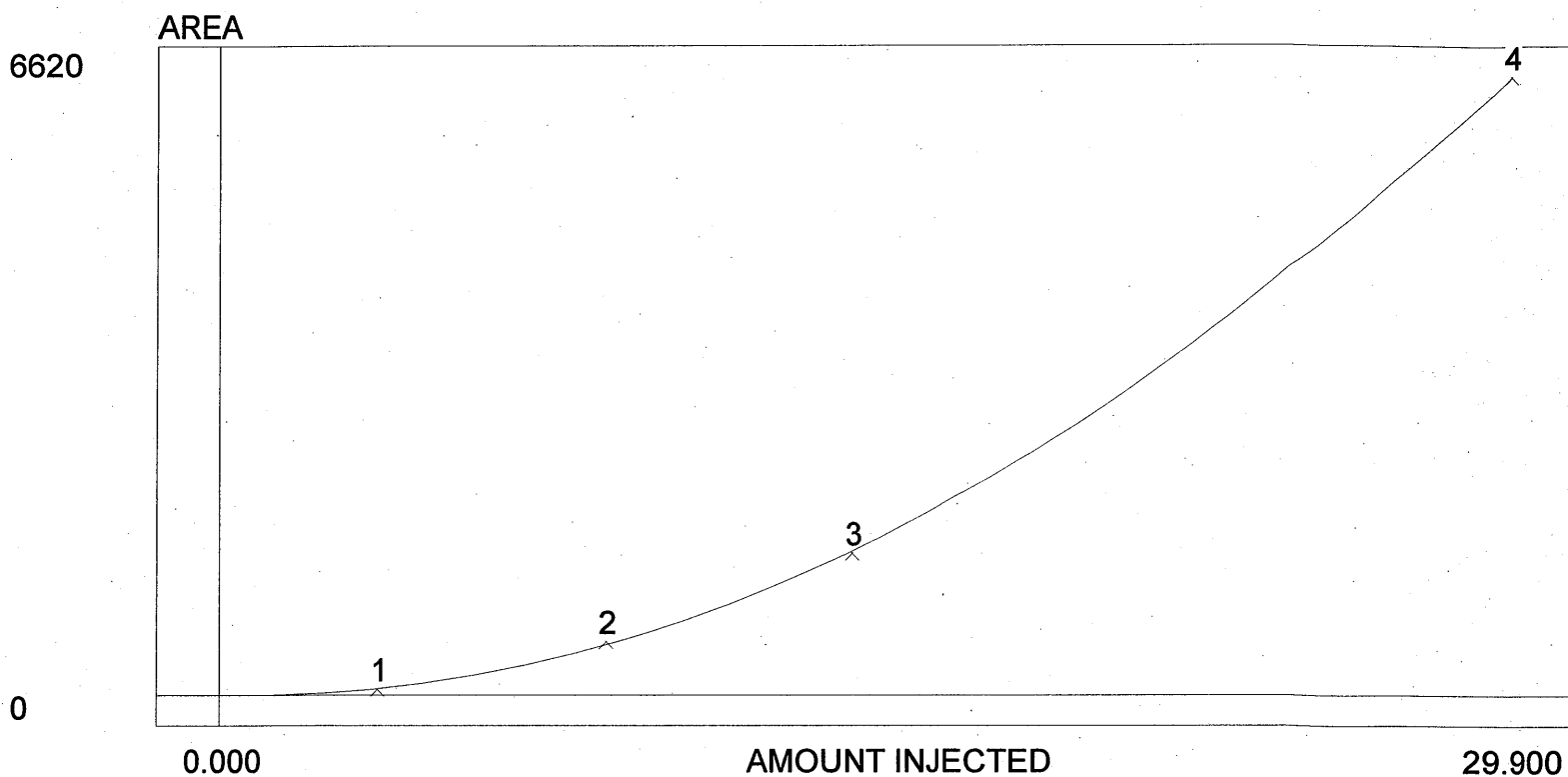
Post-test Calibration

50

	square root of the area counts			area counts		
	H2S	COS	CS2	H2S	COS	CS2
area 1	85.20094	101.4663	63.80125	7259.2	10295.4	4070.6
area 2	84.77323	101.4534	63.76833	7186.5	10292.8	4066.4
area 3	85.48041	102.9354	66.25179	7306.9	10595.7	4389.3
Mean	85.15152	101.9517	64.60713			
5% of mean	4.257576	5.097585	3.230356			
% of mean						
area 1	-0.05803	0.476158	1.247342			
area 2	0.444264	0.488726	1.298301			
area 3	-0.38623	-0.96488	-2.54564			
% diff pre	-4.66621	2.028455	4.279073			

Minimum Detection Limits

	H2S	COS	CS2
Area 1(sqrt)	58.1	139.7	51
Area 2(sqrt)	58.2	138.7	50.5
Area 3(sqrt)	56.9	137.6	50
Area 4(sqrt)	57.4	135	51.7
Area 5(sqrt)	55	136.4	49.5
Area 6(sqrt)	53.3	133.3	51.6
Area 7(sqrt)	60	143.5	52.5
Area 8(sqrt)	59.9	142.7	50.5
Area 9(sqrt)	62	143.5	52.6
average	57.86667	138.9333	51.1
stdev	2.649528	3.740655	1.079352
2.306 x stdev	6.109812	8.62595	2.488985
conc of cal gas	3.88	4.74	1.62
conc/area	0.067051	0.034117	0.031703
mindet	0.409667	0.294292	0.078907



Avg slope of curve: 221.29

Y-axis intercept: 0.00

Linearity: 0.50

Number of levels: 4

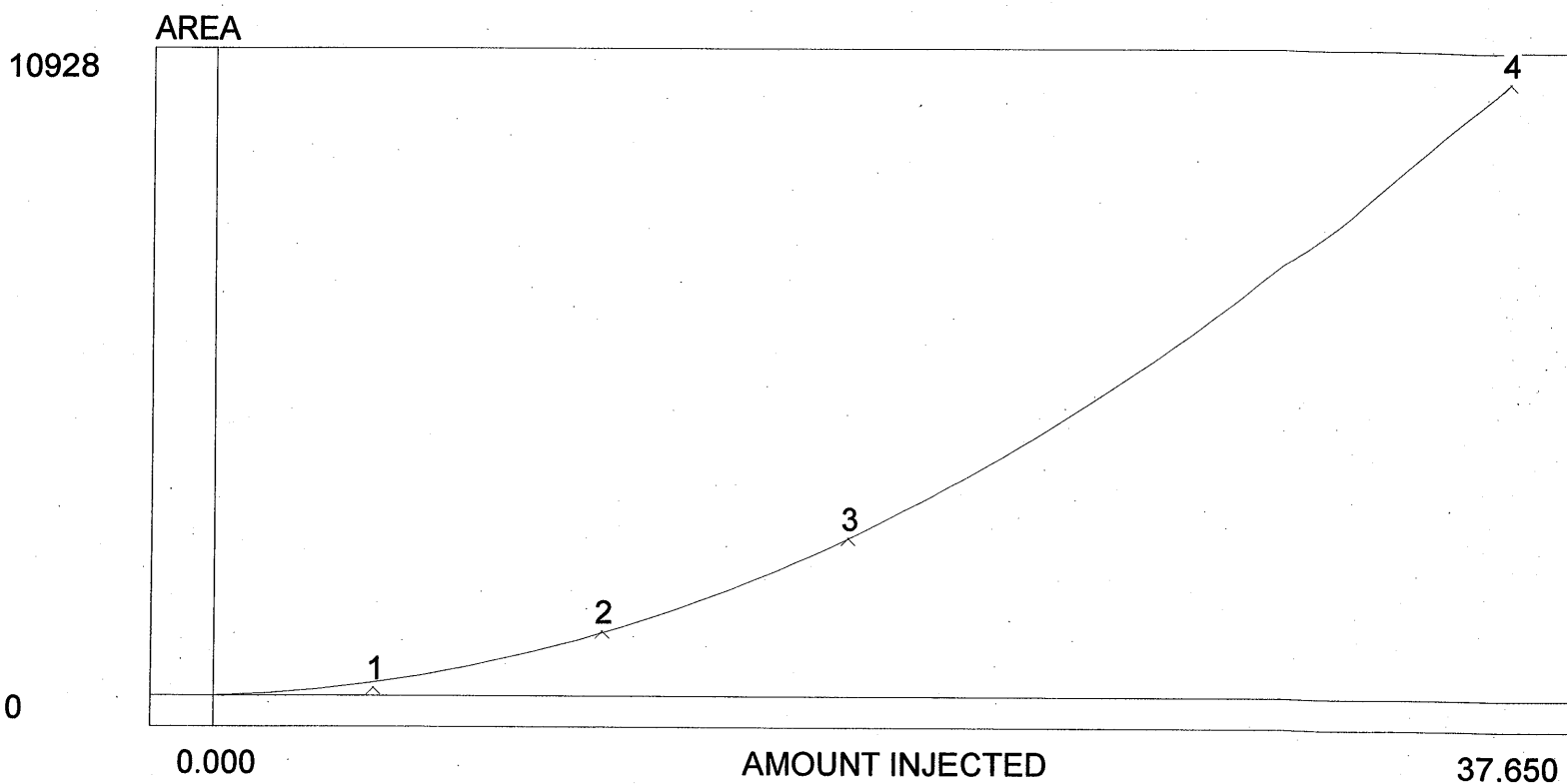
SD/rel SD of CF's: 87.8/87.2

$Y = 7.7610X^a - 10.7613X$

$r^2: 0.9999$

Last calibrated: Tue Aug 09 14:31:55 2011

Lvl.	Area/ht.	Amount	CF	Current	Previous #1	Previous #2
1	60.072	3.730	16.105	63.974	58.058	58.184
2	570.079	9.050	62.992	568.846	562.016	579.376
3	1512.835	14.780	102.357	1540.174	1529.142	1469.188
4	6619.554	29.900	221.390	7031.602	6227.326	6599.734



Avg slope of curve: 290.37

Y-axis intercept: 0.00

Linearity: 0.52

Number of levels: 4

SD/rel SD of CF's: 110.0/76.9

$Y = 7.3225X^a + 14.6762X$

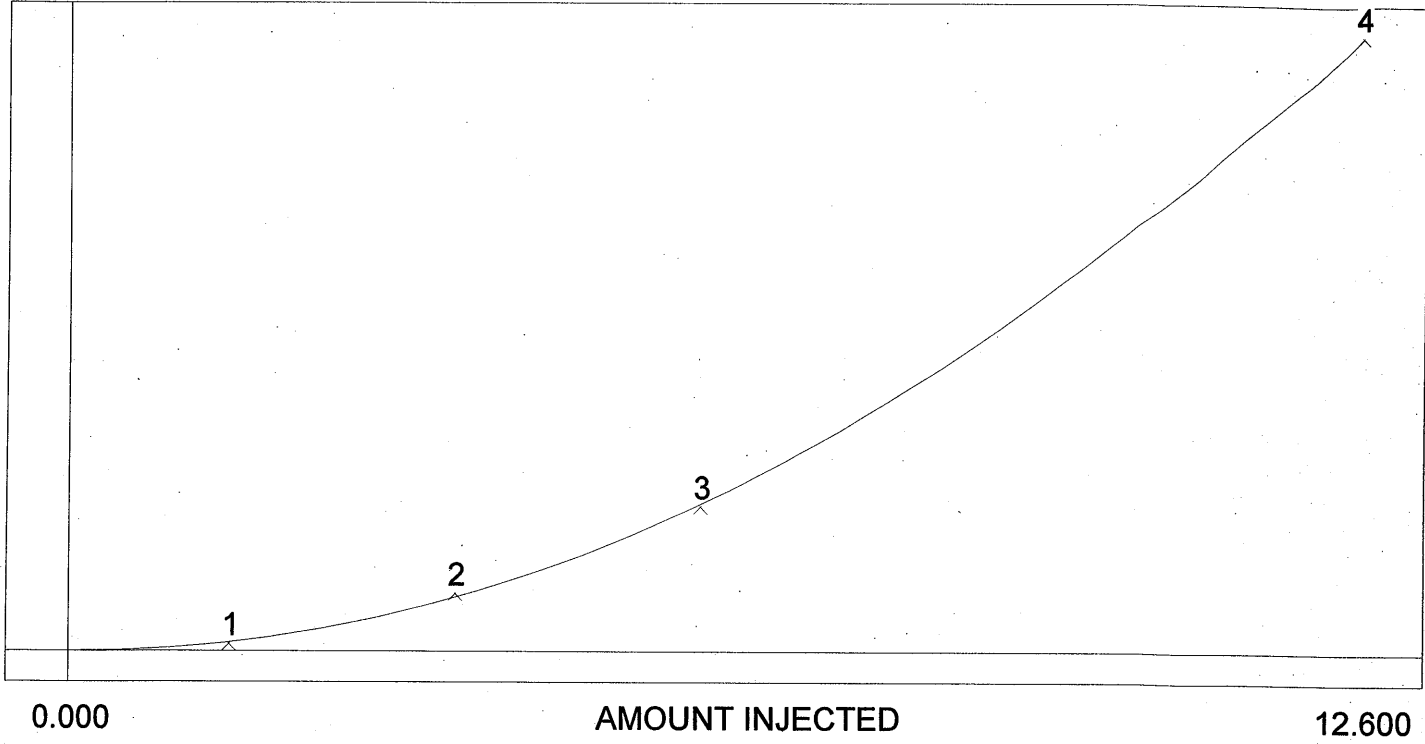
r^2 : 0.9999

Last calibrated: Wed Aug 10 13:14:36 2011

Lvl.	Area/ht.	Amount	CF	Current	Previous #1	Previous #2
1	140.840	4.700	29.966	145.285	139.675	137.560
2	1144.447	11.380	100.567	1175.681	1132.654	1125.007
3	2815.236	18.580	151.520	2756.610	2852.956	2836.143
4	10927.521	37.650	290.240	10877.933	10457.914	11446.715

AREA

4558



Avg slope of curve: 361.55

Y-axis intercept: 0.00

Linearity: 0.50

Number of levels: 4

SD/rel SD of CF's: 140.5/83.1

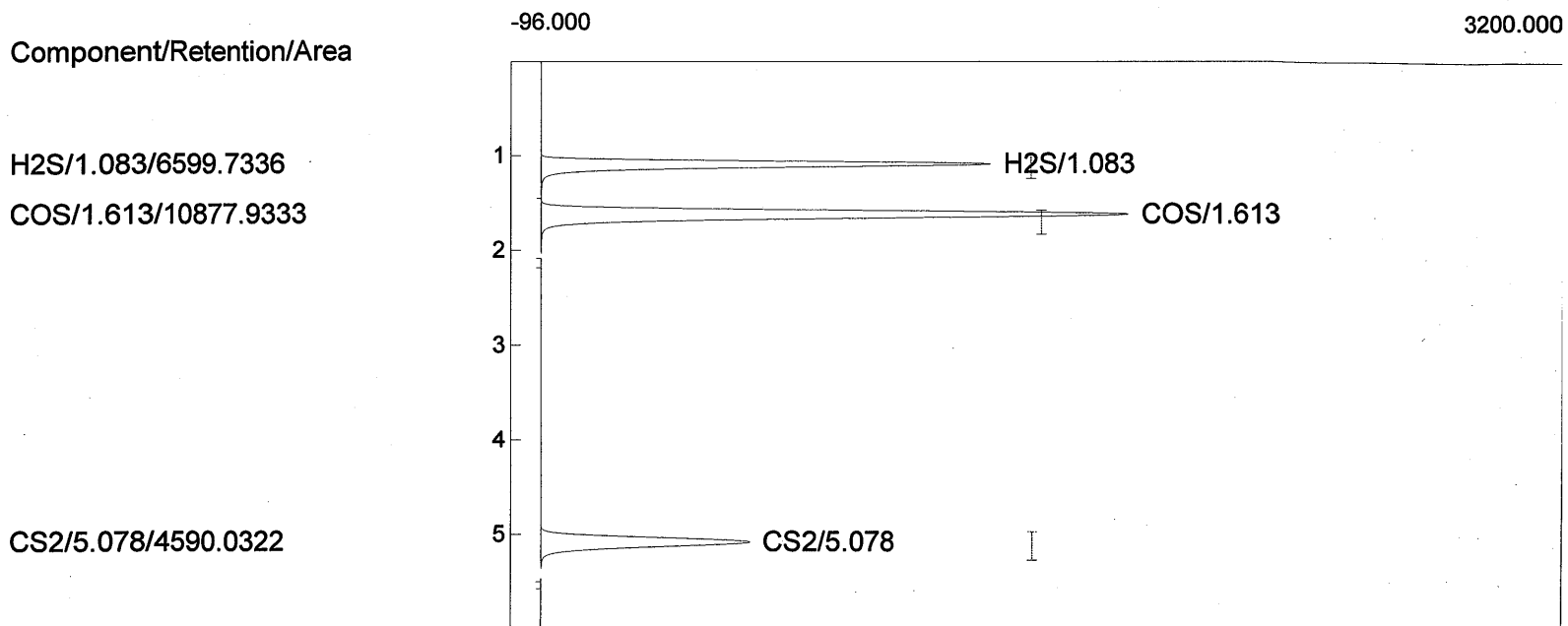
$Y = 29.3218X^a + -7.9065X$

r2: 0.9999

Last calibrated: Tue Aug 09 14:52:56 2011

Lvl.	Area/ht.	Amount	CF	Current	Previous #1	Previous #2
1	51.889	1.600	32.431	54.207	50.972	50.488
2	421.868	3.810	110.727	439.262	410.126	416.217
3	1067.664	6.220	171.650	1032.937	1075.141	1094.916
4	4557.556	12.600	361.711	4590.032	4314.740	4767.896

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 07:39:12
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 158.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.083	1424.403	6599.7336	29.8620	ppmv
COS	1.613	1861.039	10877.9333	37.5519	ppmv
CS2	5.078	662.765	4590.0322	12.6482	ppmv
			22067.6991	80.0621	

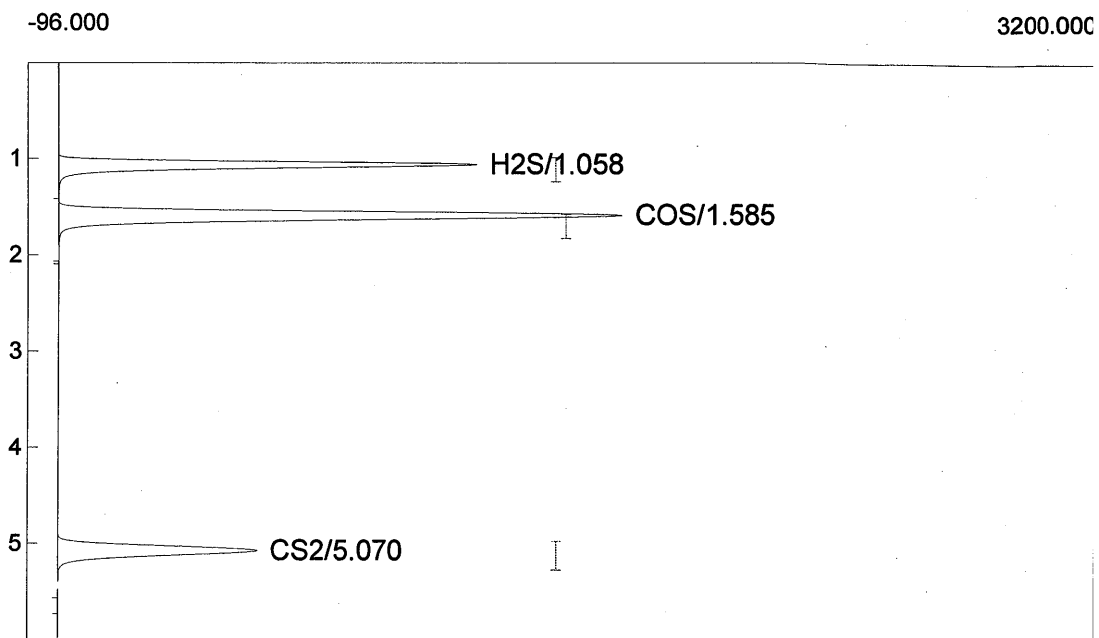
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 07:47:53
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 159.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.058/6236.7203

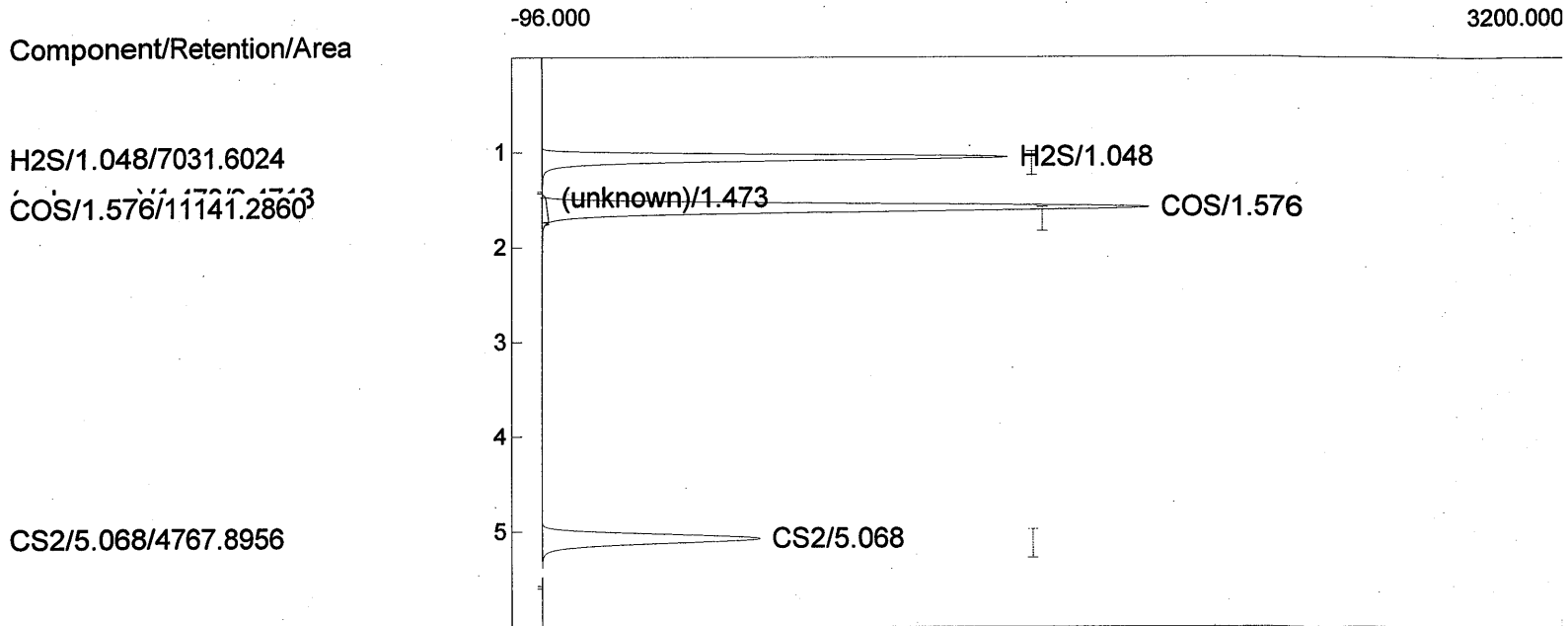
COS/1.585/10473.1239

CS2/5.070/4314.7401



Component	Retention	Height	Area	External	Units
H2S	1.058	1305.644	6236.7203	29.0445	ppmv
COS	1.585	1756.684	10473.1239	36.8226	ppmv
CS2	5.070	617.515	4314.7401	12.2638	ppmv
			21024.5843	78.1309	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 07:56:40
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 160.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.048	1475.403	7031.6024	30.8345	ppmv
COS	1.576	1904.172	11141.2860	38.0264	ppmv
CS2	5.068	687.949	4767.8956	12.8965	ppmv
			22940.7840	81.7575	

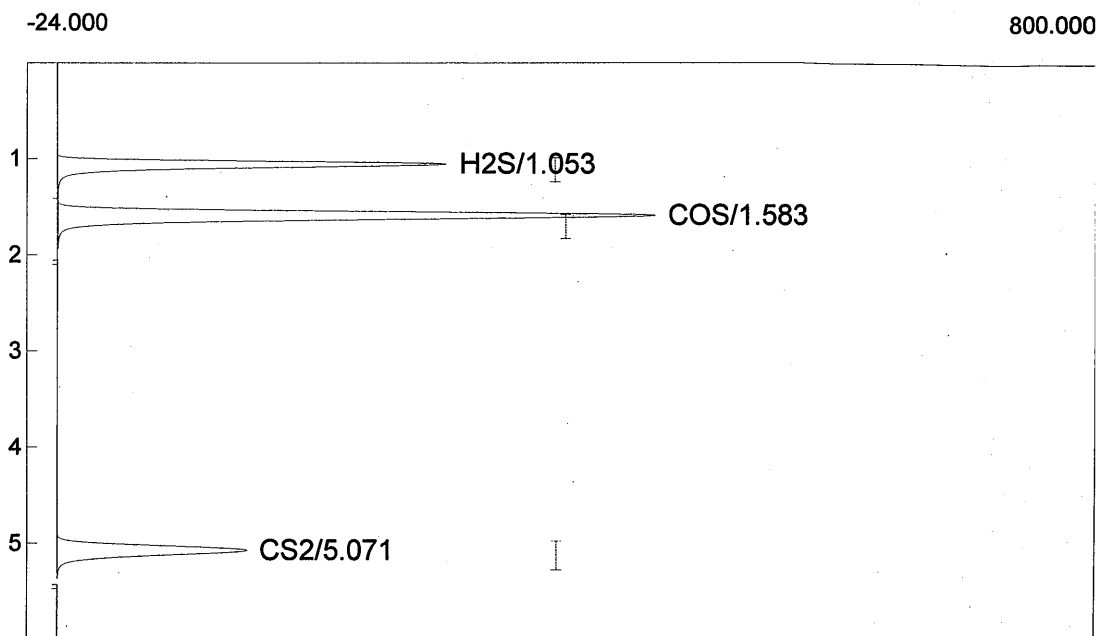
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 08:05:19
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 161.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.053/1450.2295

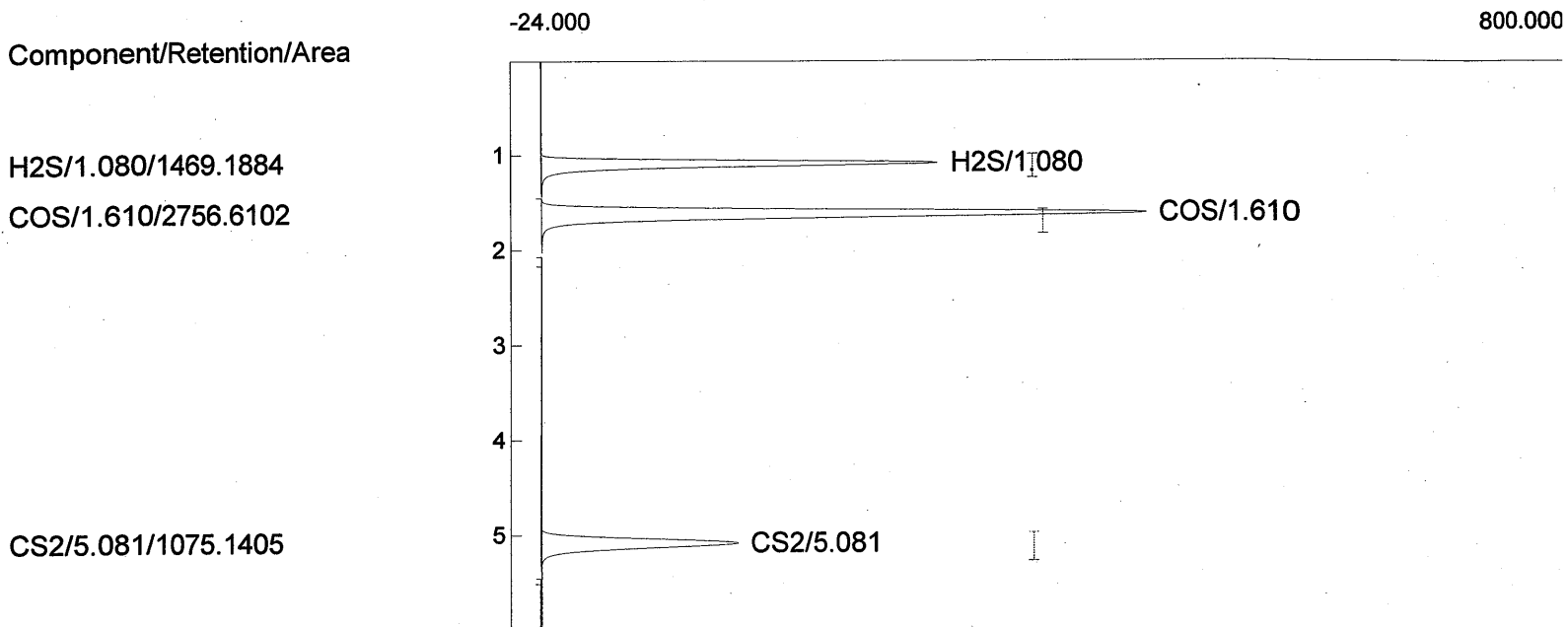
COS/1.583/2719.3702

CS2/5.071/1032.9370



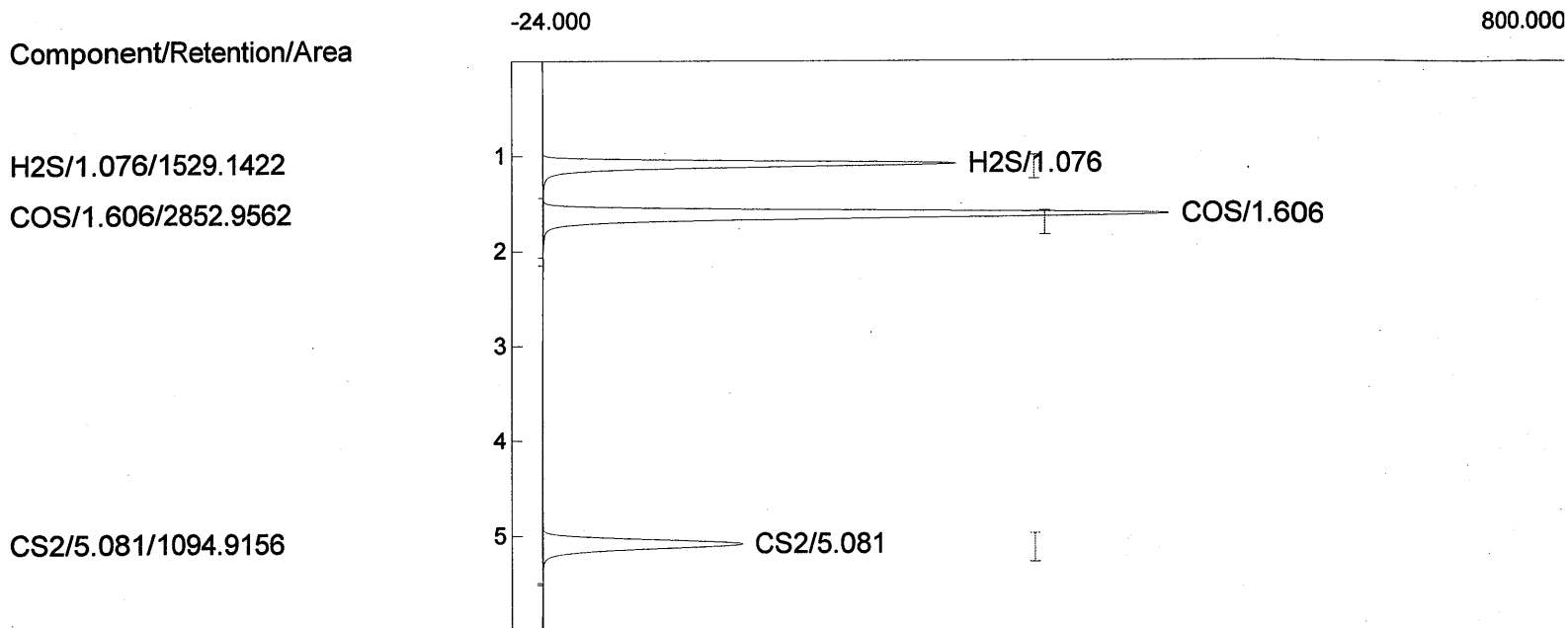
Component	Retention	Height	Area	External	Units
H2S	1.053	304.881	1450.2295	14.3795	ppmv
COS	1.583	465.644	2719.3702	18.2877	ppmv
CS2	5.071	147.407	1032.9370	6.0707	ppmv
			5202.5367	38.7379	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 08:14:57
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 162.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



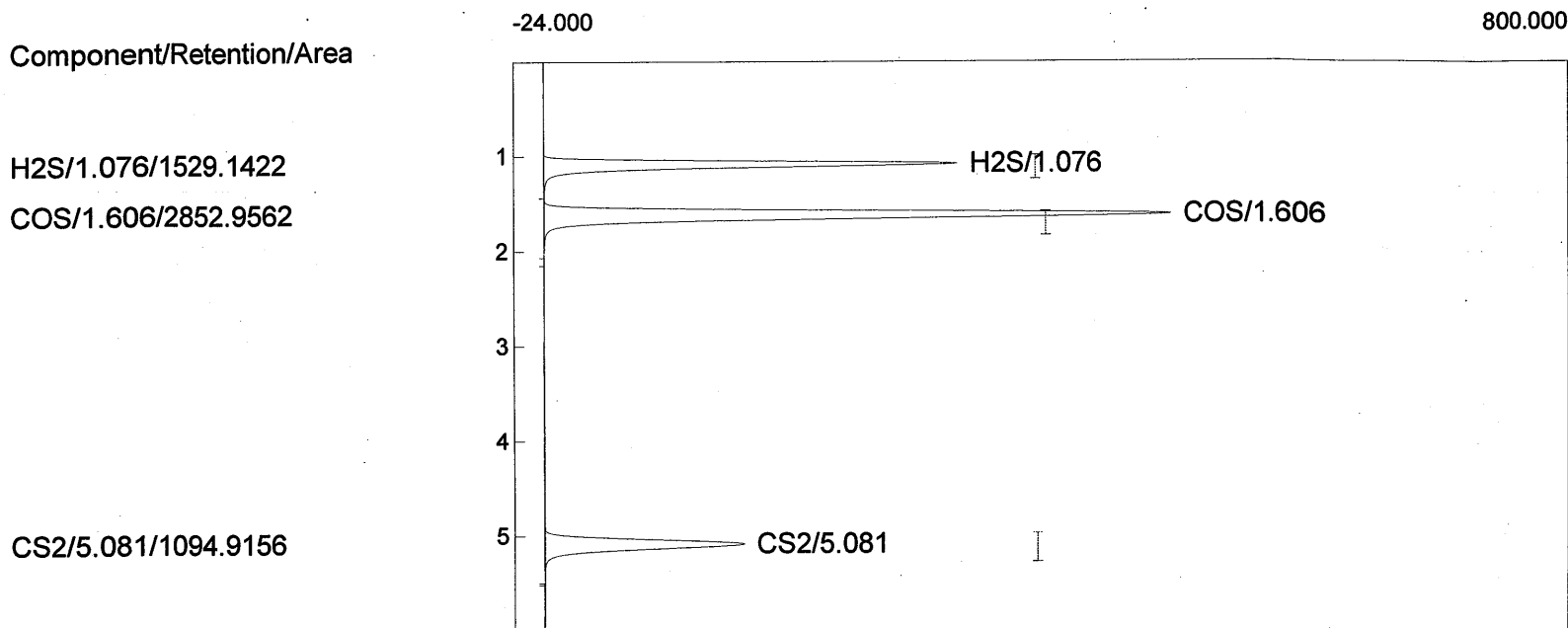
Component	Retention	Height	Area	External	Units
H2S	1.080	313.535	1469.1884	14.4651	ppmv
COS	1.610	477.303	2756.6102	18.4160	ppmv
CS2	5.081	154.936	1075.1405	6.1874	ppmv
			5300.9391	39.0685	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 08:24:31
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 163.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



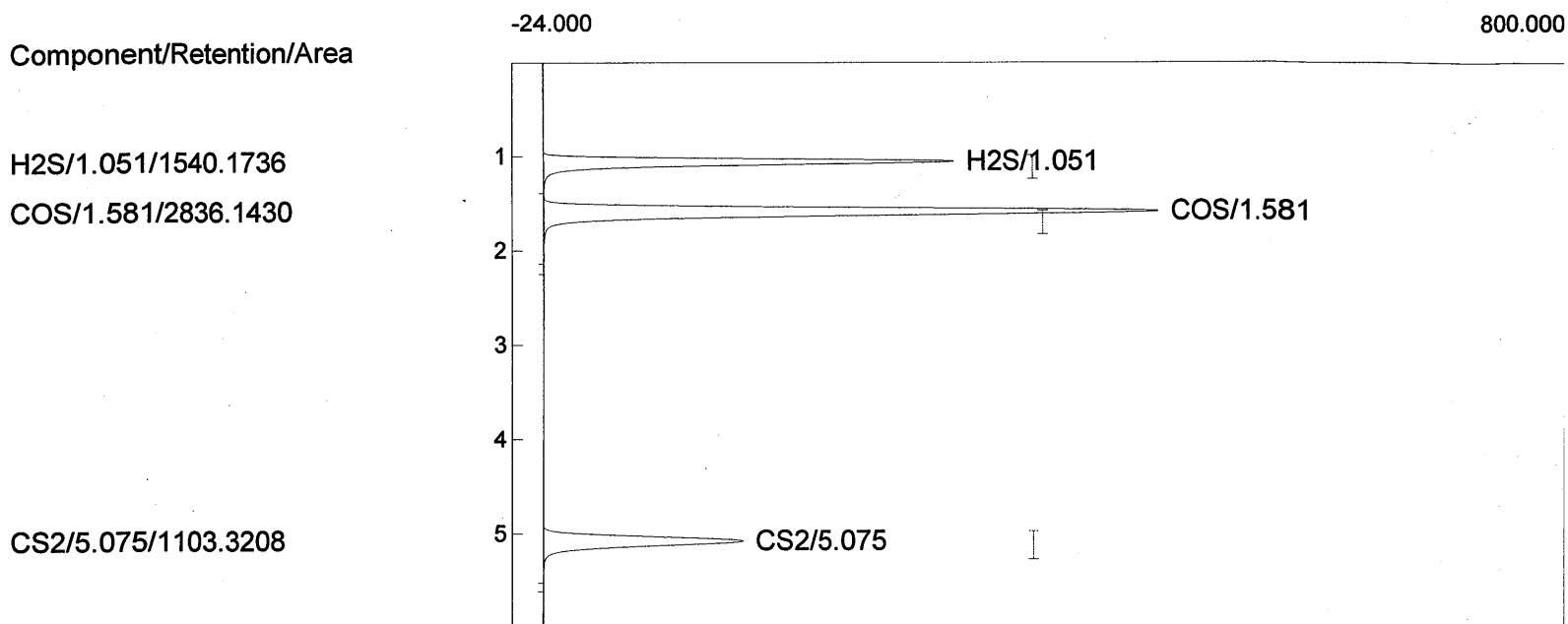
Component	Retention	Height	Area	External	Units
H2S	1.076	326.654	1529.1422	14.7361	ppmv
COS	1.606	494.011	2852.9562	18.7478	ppmv
CS2	5.081	157.447	1094.9156	6.2421	ppmv
			5477.0140	39.7260	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 08:24:31
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 163.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



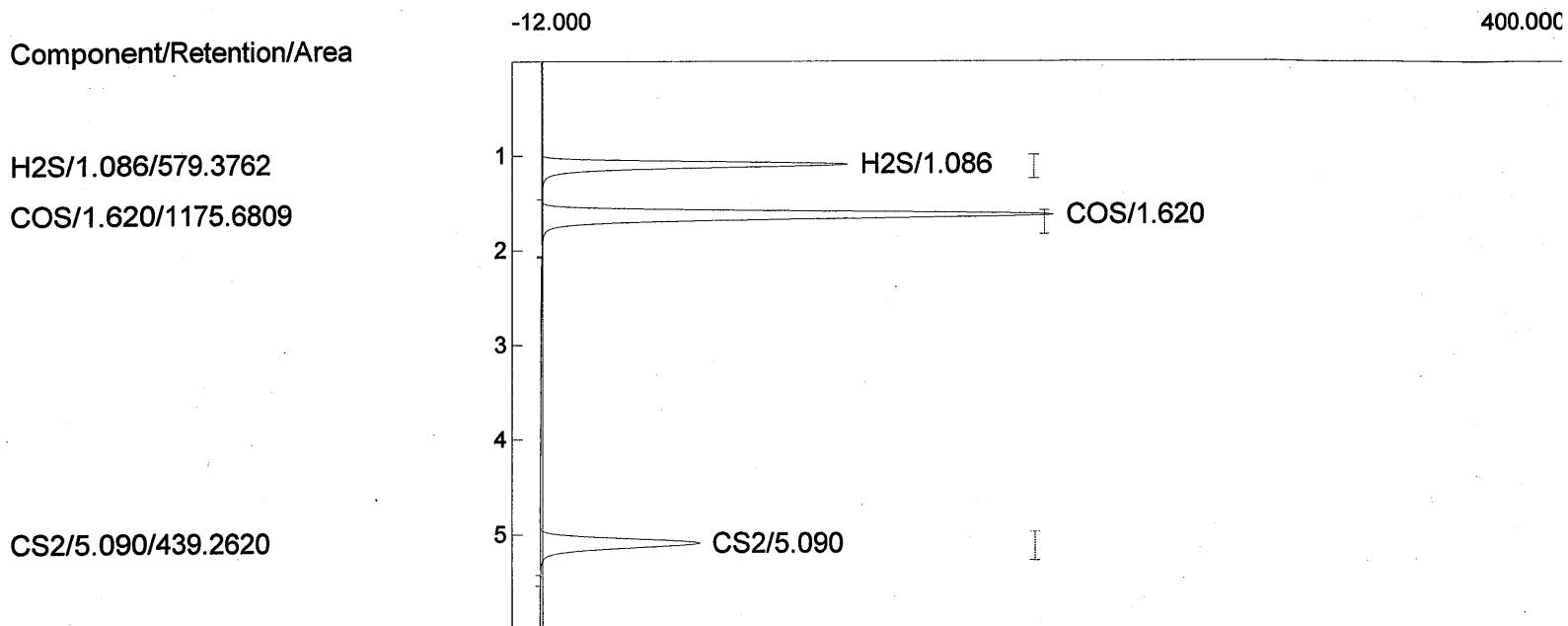
Component	Retention	Height	Area	External	Units
H2S	1.076	326.654	1529.1422	14.7361	ppmv
COS	1.606	494.011	2852.9562	18.7478	ppmv
CS2	5.081	157.447	1094.9156	6.2421	ppmv
			5477.0140	39.7260	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 08:33:05
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 164.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.051	325.325	1540.1736	14.7859	ppmv
COS	1.581	485.708	2836.1430	18.6899	ppmv
CS2	5.075	157.805	1103.3208	6.2654	ppmv
			5479.6374	39.7412	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 08:45:16
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 165.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.086	120.879	579.3762	9.3489	ppmv
COS	1.620	202.085	1175.6809	11.6925	ppmv
CS2	5.090	62.470	439.2620	4.0061	ppmv
			2194.3191	25.0474	

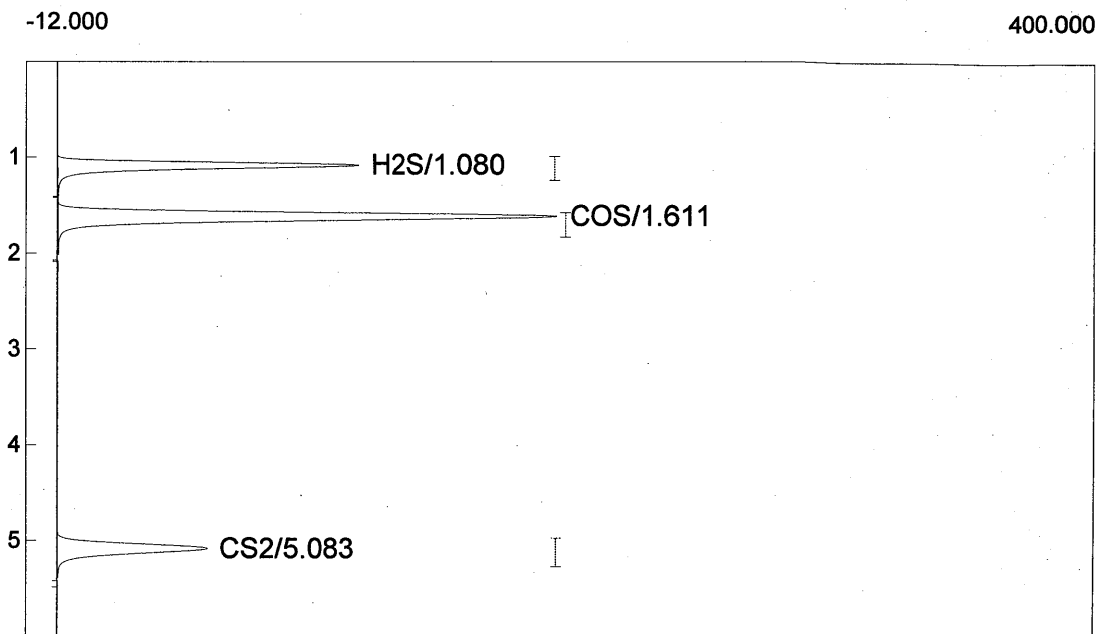
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 08:54:53
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 166.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.080/562.0158

COS/1.611/1132.6536

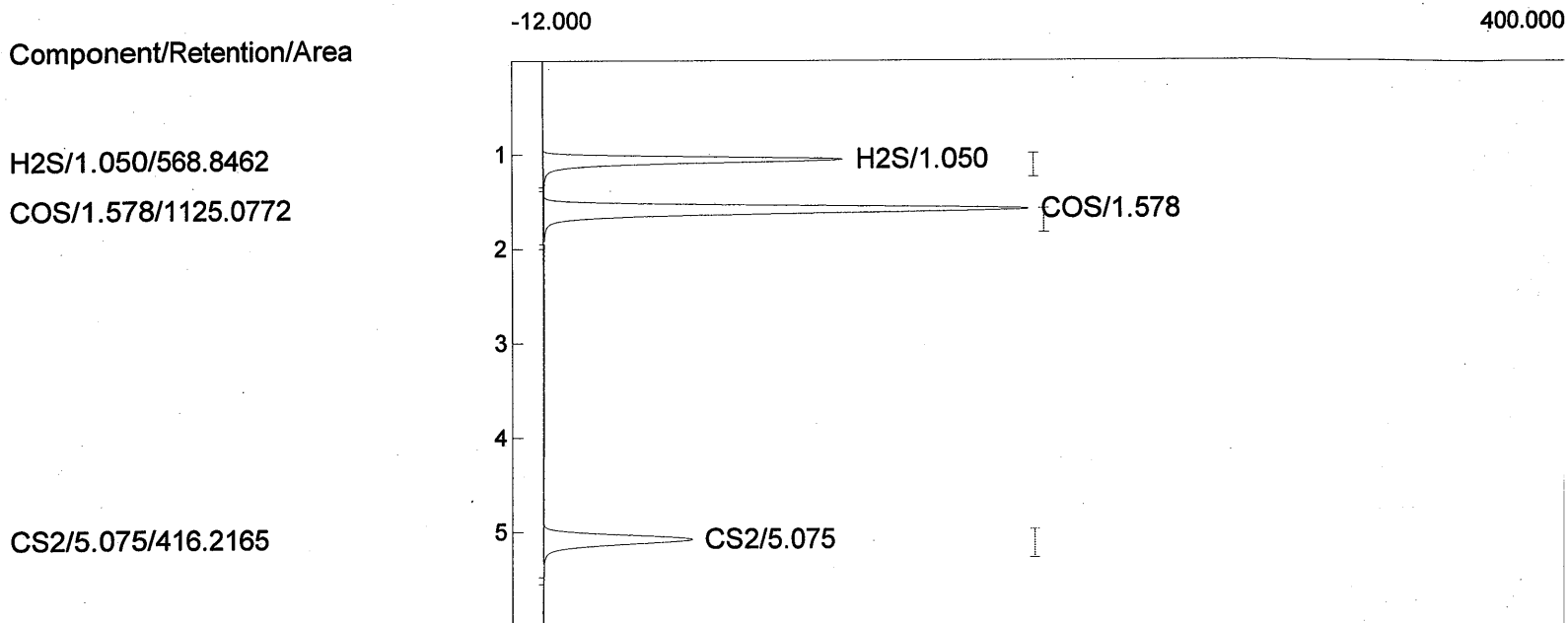
CS2/5.083/410.1260



Component	Retention	Height	Area	External	Units
H2S	1.080	117.393	562.0158	9.2138	ppmv
COS	1.611	194.579	1132.6536	11.4535	ppmv
CS2	5.083	57.967	410.1260	3.8698	ppmv

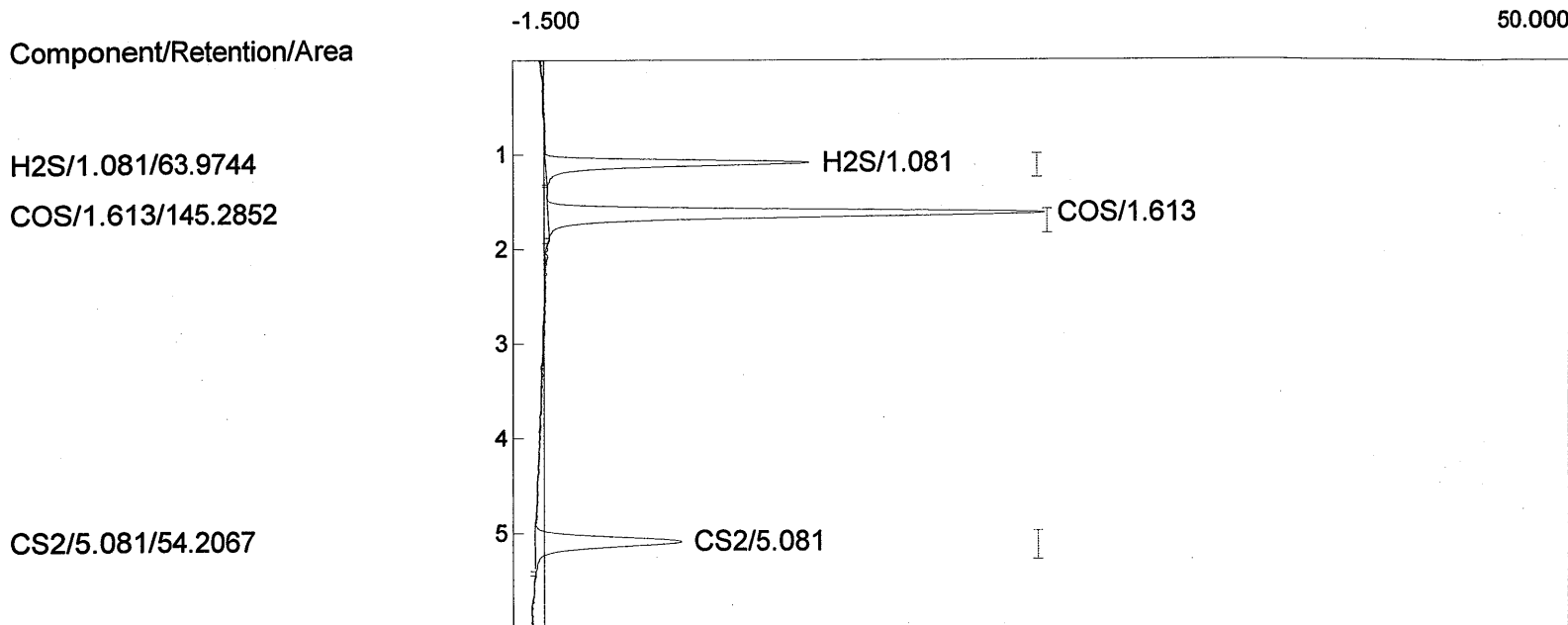
2104.7954 24.5371

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 09:03:29
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 167.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.050	118.840	568.8462	9.2669	ppmv
COS	1.578	191.671	1125.0772	11.4115	ppmv
CS2	5.075	58.584	416.2165	3.8983	ppmv
			2110.1399	24.5766	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 09:12:58
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 168.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test calcs
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.081	13.044	63.9744	3.6373	ppmv
COS	1.613	24.462	145.2852	3.5083	ppmv
CS2	5.081	7.155	54.2067	1.4988	ppmv
			263.4663	8.6444	

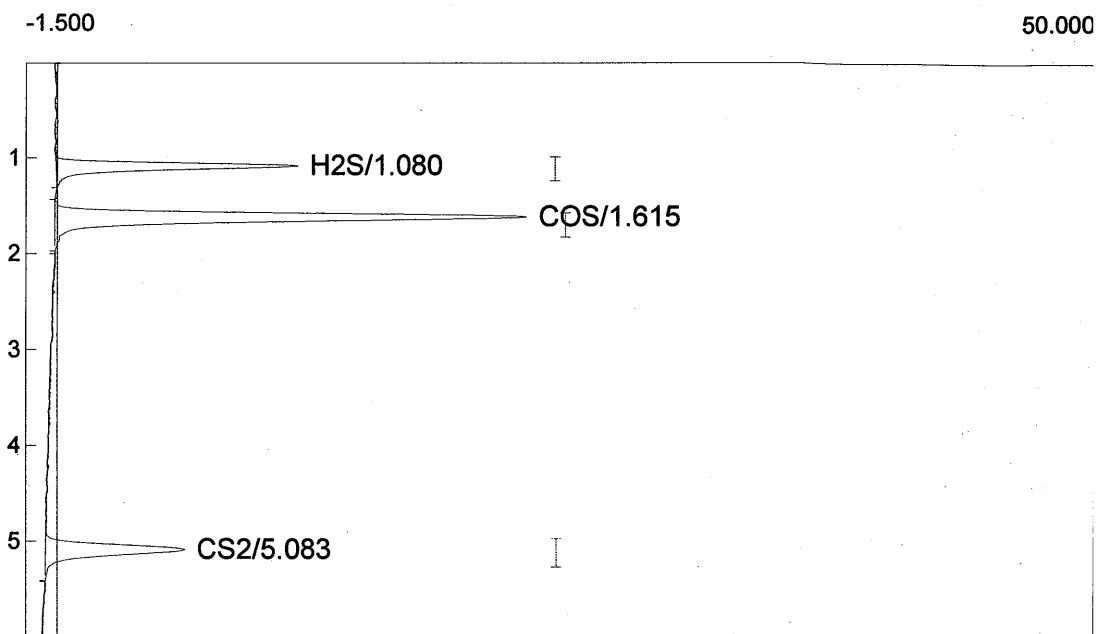
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 09:23:43
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 169.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.080/58.0580

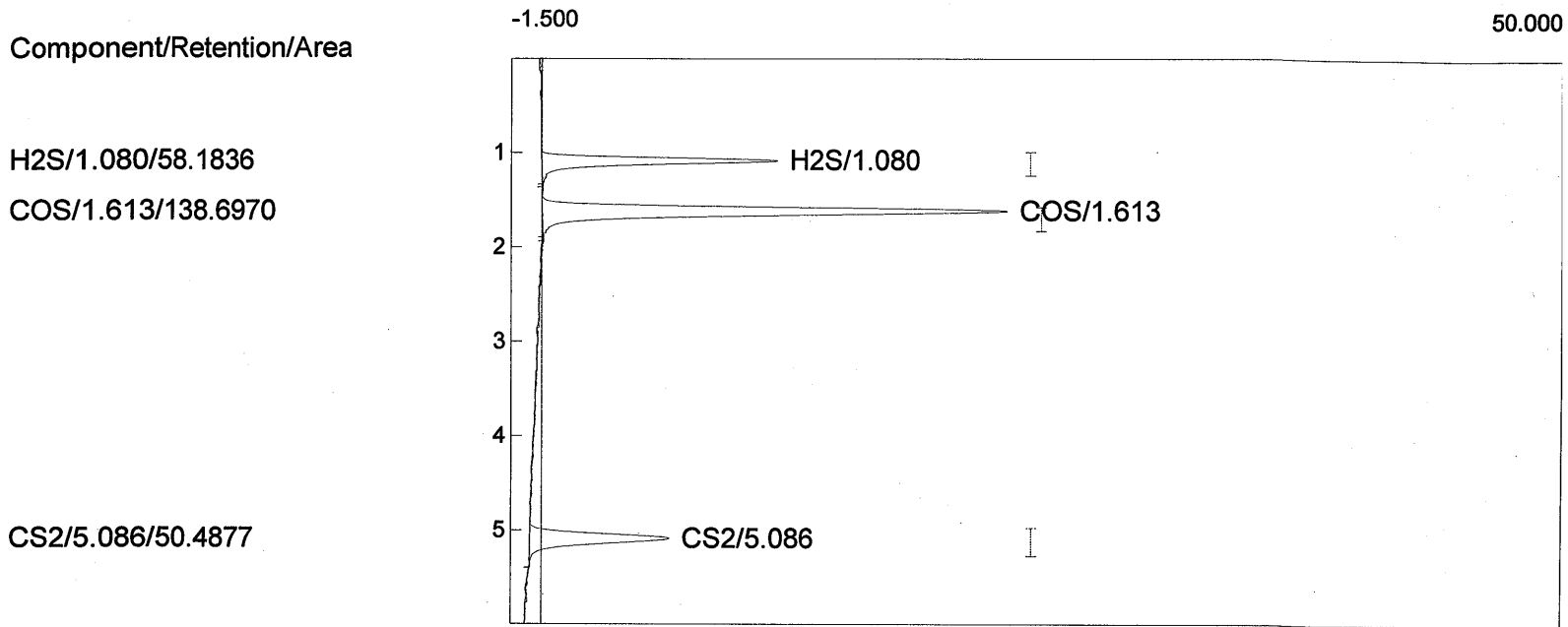
COS/1.615/139.6753

CS2/5.083/50.9722



Component	Retention	Height	Area	External	Units
H2S	1.080	11.765	58.0580	3.4970	ppmv
COS	1.615	22.975	139.6753	3.4280	ppmv
CS2	5.083	6.717	50.9722	1.4498	ppmv
			248.7055	8.3747	

Lab name: IRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 09:33:45
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 170.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.080	11.681	58.1836	3.5006	ppmv
COS	1.613	23.106	138.6970	3.4139	ppmv
CS2	5.086	6.915	50.4877	1.4424	ppmv
			247.3683	8.3569	

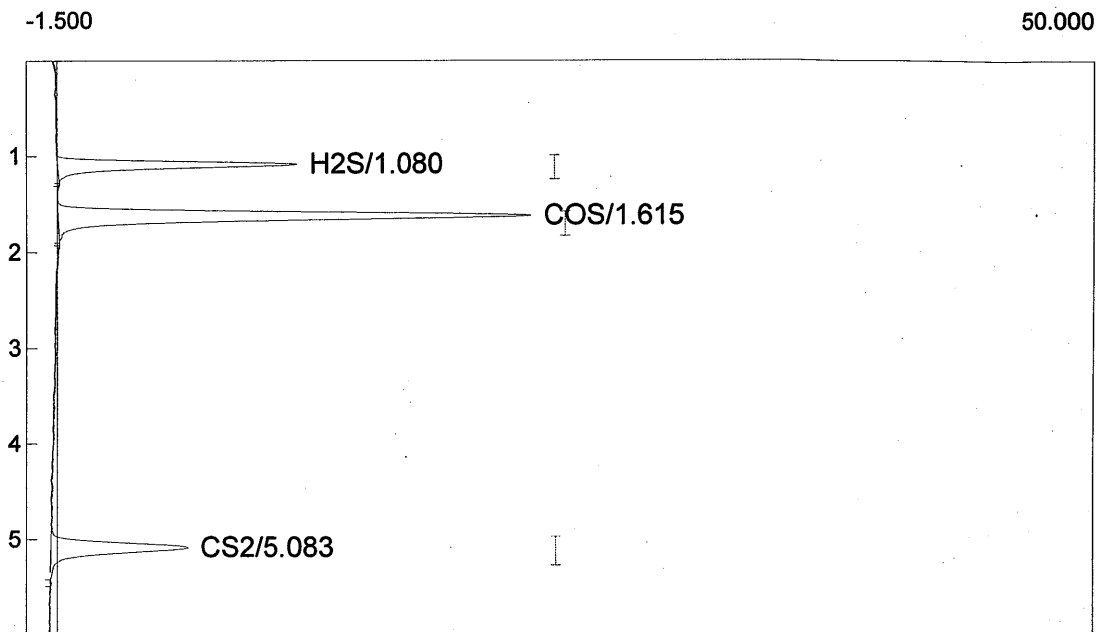
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 09:43:36
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 171.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.080/56.9406

COS/1.615/137.5604

CS2/5.083/49.9844



Component	Retention	Height	Area	External	Units
H2S	1.080	11.698	56.9406	3.4657	ppmv
COS	1.615	23.055	137.5604	3.3977	ppmv
CS2	5.083	6.640	49.9844	1.4348	ppmv
			244.4854	8.2981	

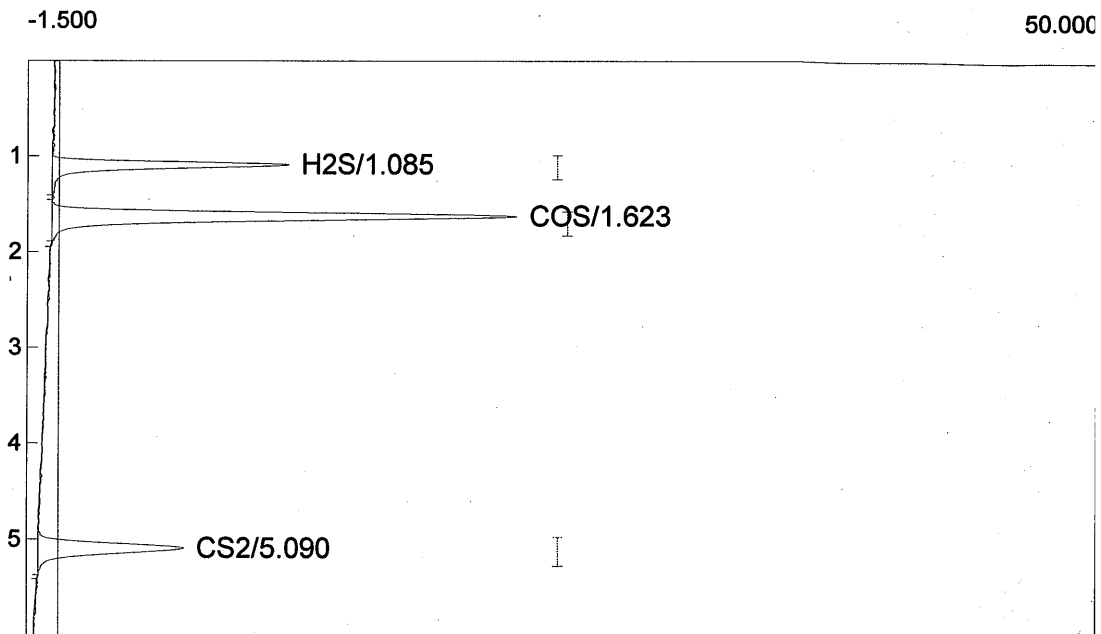
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 10:00:02
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 172.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.085/57.4206

COS/1.623/134.9658

CS2/5.090/51.7256



Component	Retention	Height	Area	External	Units
H2S	1.085	11.482	57.4206	3.4792	ppmv
COS	1.623	22.640	134.9658	3.3605	ppmv
CS2	5.090	7.022	51.7256	1.4612	ppmv
			244.1120	8.3008	

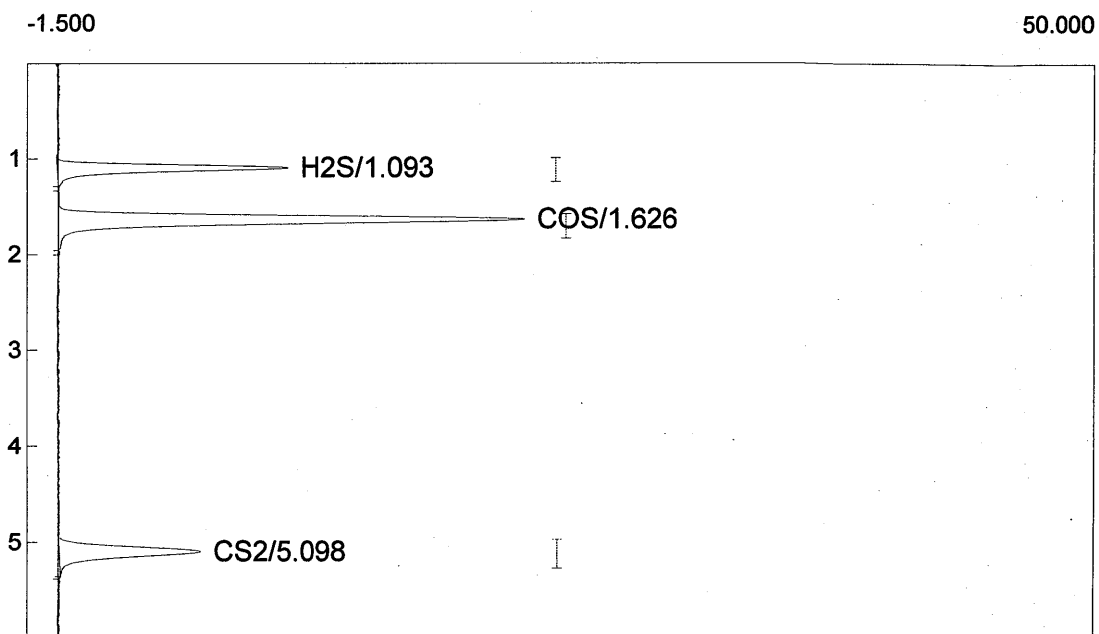
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 10:35:01
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 173.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.093/54.9626

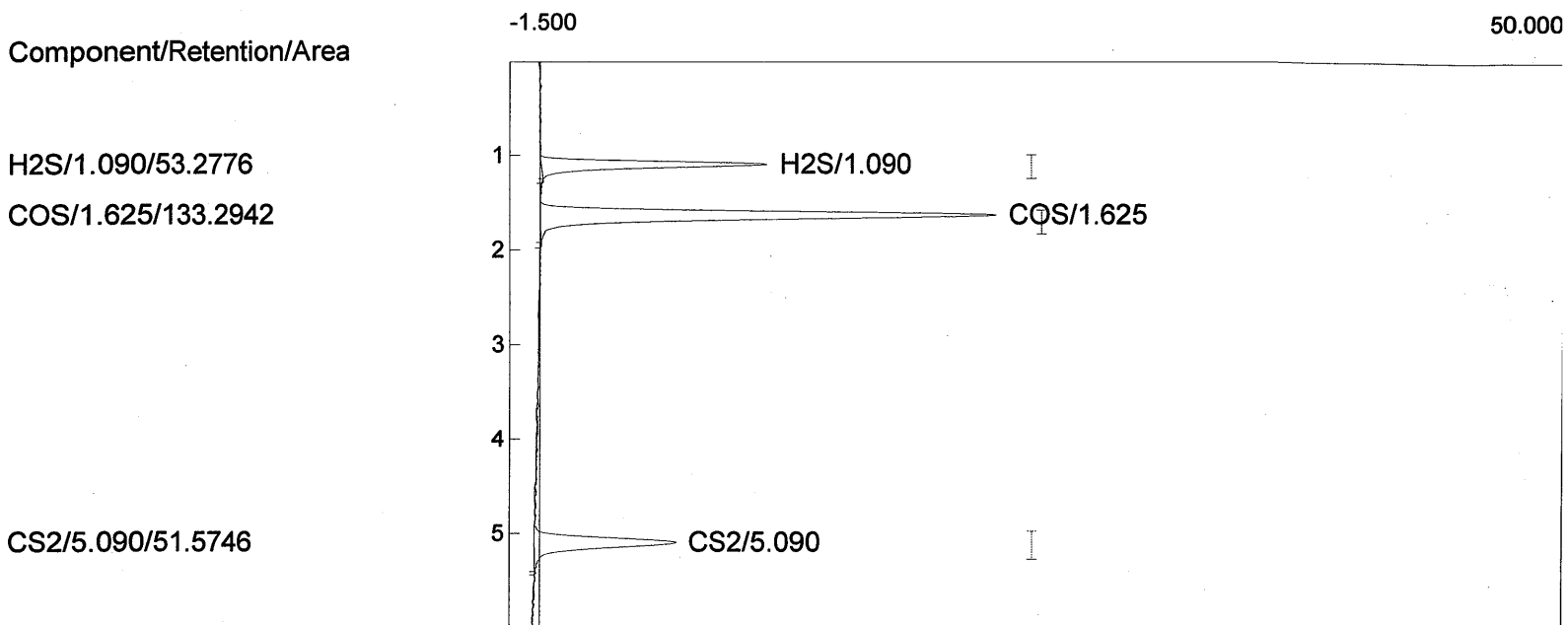
COS/1.626/136.3526

CS2/5.098/49.5234



Component	Retention	Height	Area	External	Units
H2S	1.093	11.251	54.9626	3.4102	ppmv
COS	1.626	22.712	136.3526	3.3804	ppmv
CS2	5.098	6.827	49.5234	1.4278	ppmv
			240.8386	8.2184	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 10:49:57
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 174.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.090	11.177	53.2776	3.3629	ppmv
COS	1.625	22.485	133.2942	3.3366	ppmv
CS2	5.090	6.946	51.5746	1.4589	ppmv
			238.1464	8.1584	

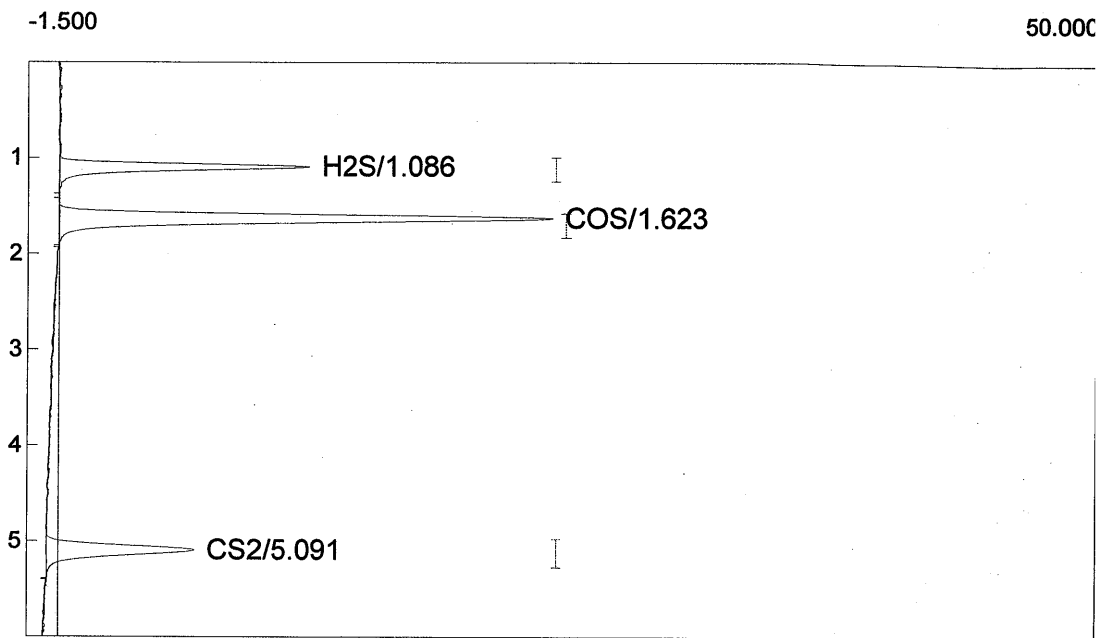
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 11:01:12
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 175.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.086/60.0184

COS/1.623/143.5264

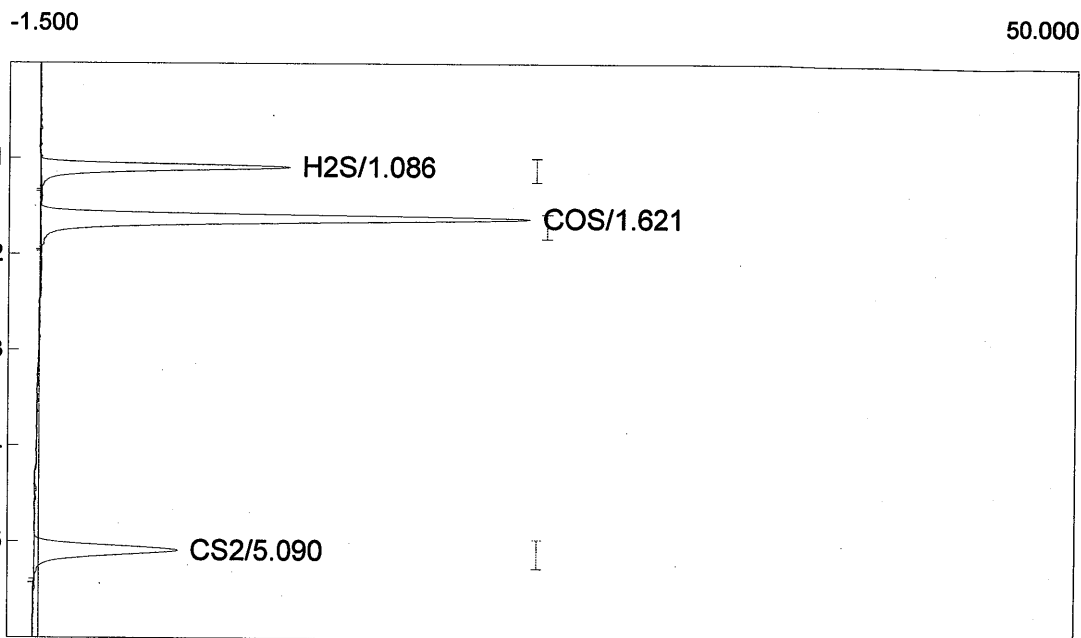
CS2/5.091/52.5222



Component	Retention	Height	Area	External	Units
H2S	1.086	12.197	60.0184	3.5520	ppmv
COS	1.623	24.127	143.5264	3.4831	ppmv
CS2	5.091	7.197	52.5222	1.4732	ppmv
			256.0670	8.5084	

Lab name: IRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 11:12:27
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 176.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area



H2S/1.086/59.8588

COS/1.621/142.6998

CS2/5.090/50.4911

Component	Retention	Height	Area	External	Units
H2S	1.086	12.180	59.8588	3.5475	ppmv
COS	1.621	23.902	142.6998	3.4713	ppmv
CS2	5.090	6.922	50.4911	1.4425	ppmv
			253.0497	8.4613	

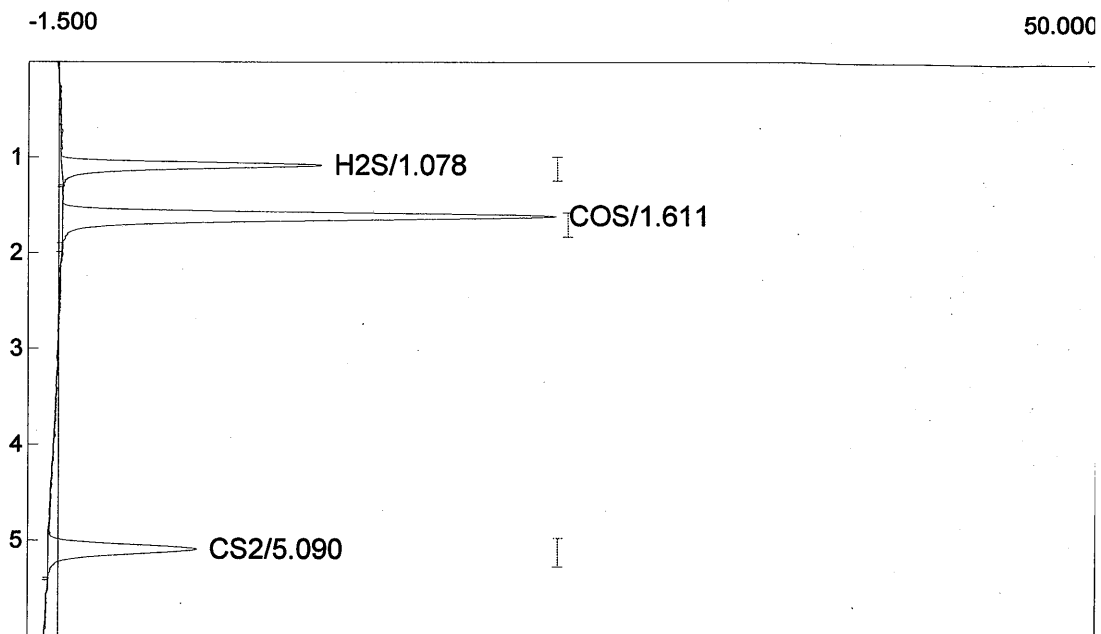
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 11:22:27
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 177.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

H2S/1.078/61.9986

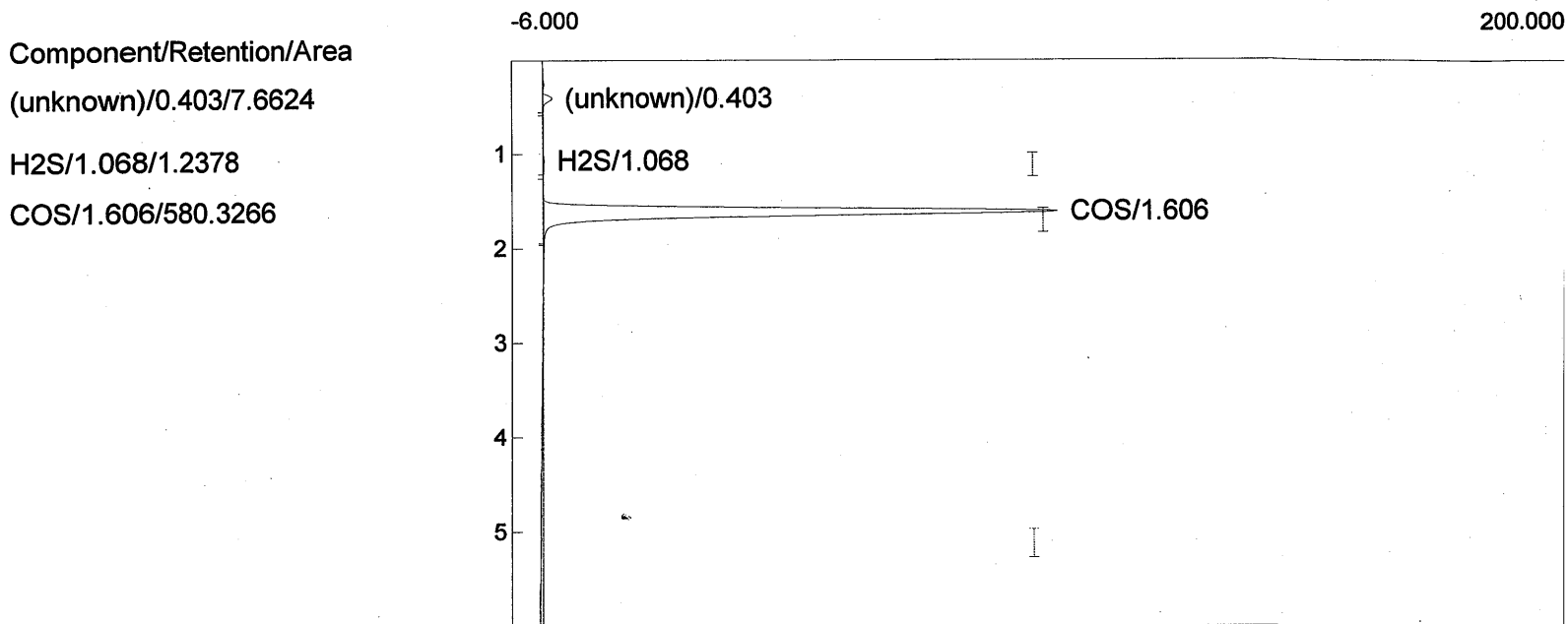
COS/1.611/143.4818

CS2/5.090/52.5500



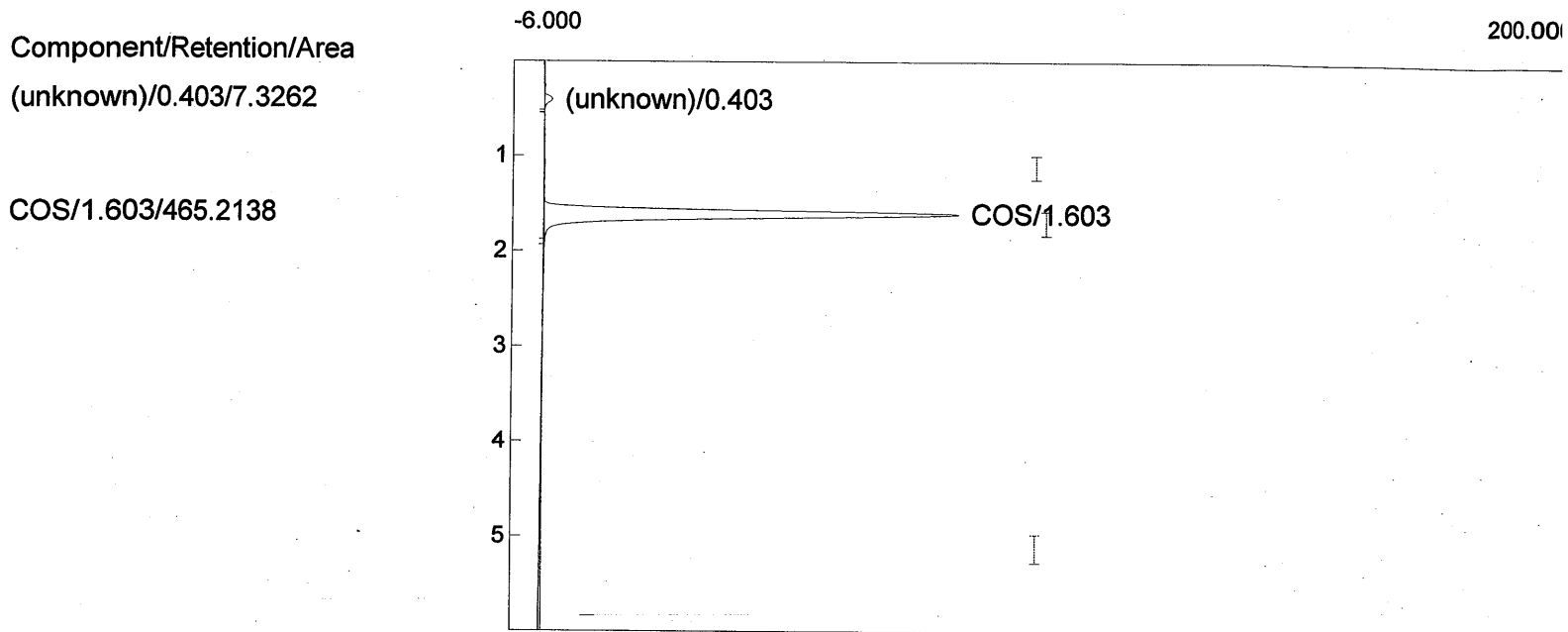
Component	Retention	Height	Area	External	Units
H2S	1.078	12.637	61.9986	3.6009	ppmv
COS	1.611	24.011	143.4818	3.4825	ppmv
CS2	5.090	7.148	52.5500	1.4737	ppmv
			258.0304	8.5570	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 11:32:27
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 178.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.068	0.247	1.2378	1.3720	ppmv
COS	1.606	101.775	580.3266	7.9317	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			581.5644	9.3037	

Lab Name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 11:42:27
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 179.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU.
 Sample: Pre-test calcs
 Operator: J. Glass

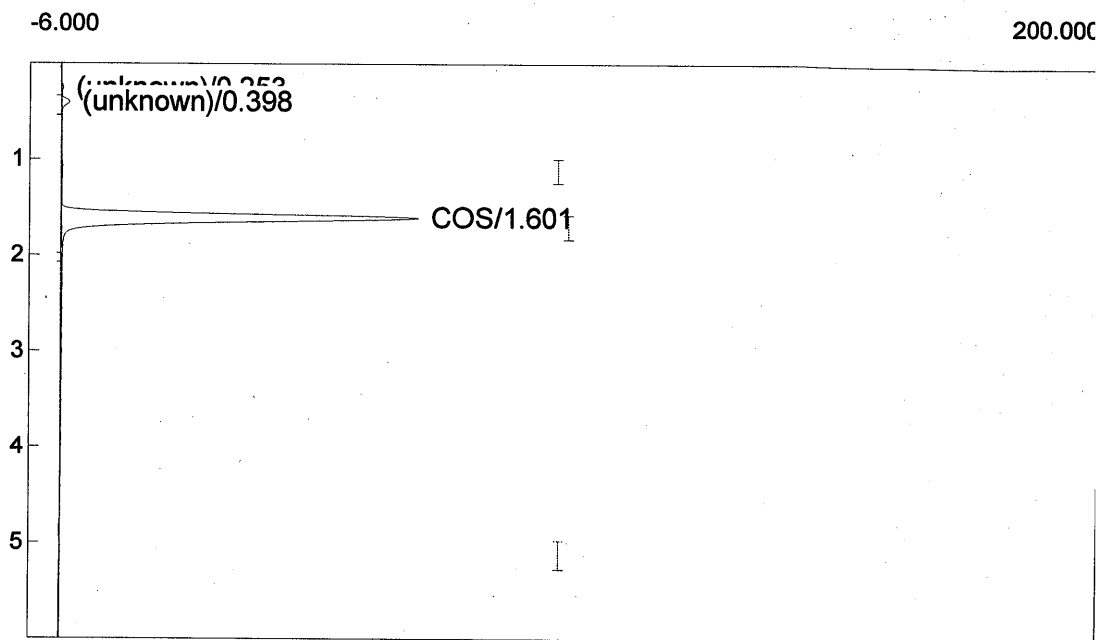


Component	Retention	Height	Area	External	Units
H2S	0.000	0.000	0.0000	0.0000	ppmv
COS	1.603	81.835	465.2138	6.9990	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			465.2138	6.9990	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 11:52:27
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 180.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test calcs
 Operator: J. Glass

Component/Retention/Area
 (unknown)/0.353/1.4747
 (unknown)/0.398/6.5477

COS/1.601/397.9776

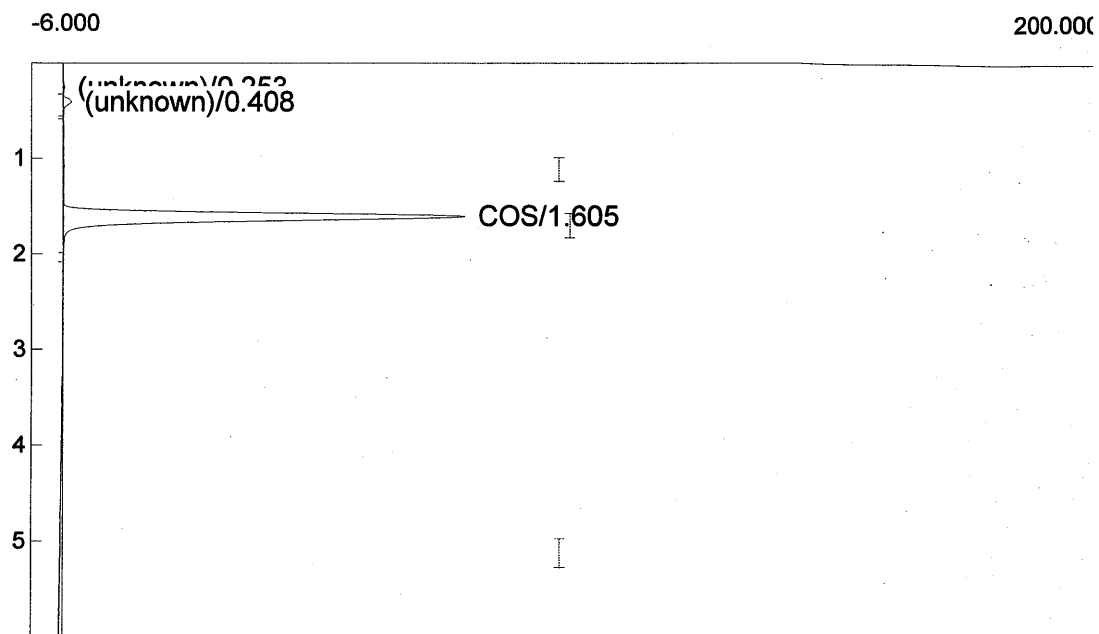


Component	Retention	Height	Area	External	Units
H2S	0.000	0.000	0.0000	0.0000	ppmv
COS	1.601	69.839	397.9776	6.4089	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			397.9776	6.4089	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 12:02:27
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 181.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area
 (unknown)/0.253/1.3181
 (unknown)/0.408/7.4060

COS/1.605/447.7934



Component	Retention	Height	Area	External	Units
H2S	0.000	0.000	0.0000	0.0000	ppmv
COS	1.605	78.565	447.7934	6.8461	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			447.7934	6.8461	

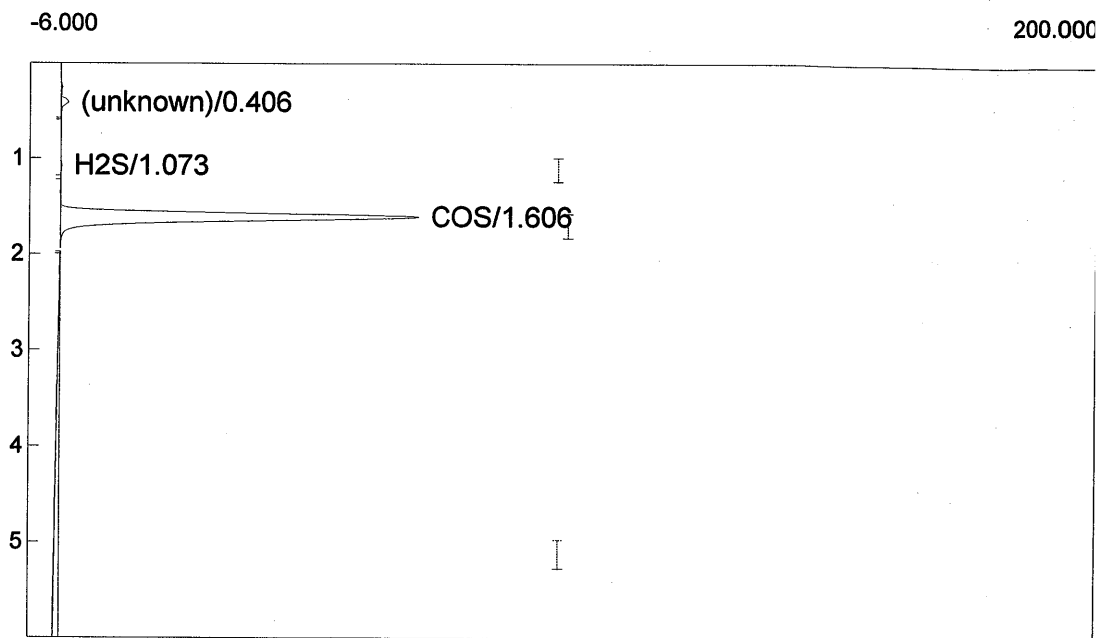
Lab name: IRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 12:12:27
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 182.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

(unknown)/0.406/6.3386

H2S/1.073/1.0057

COS/1.606/398.1932



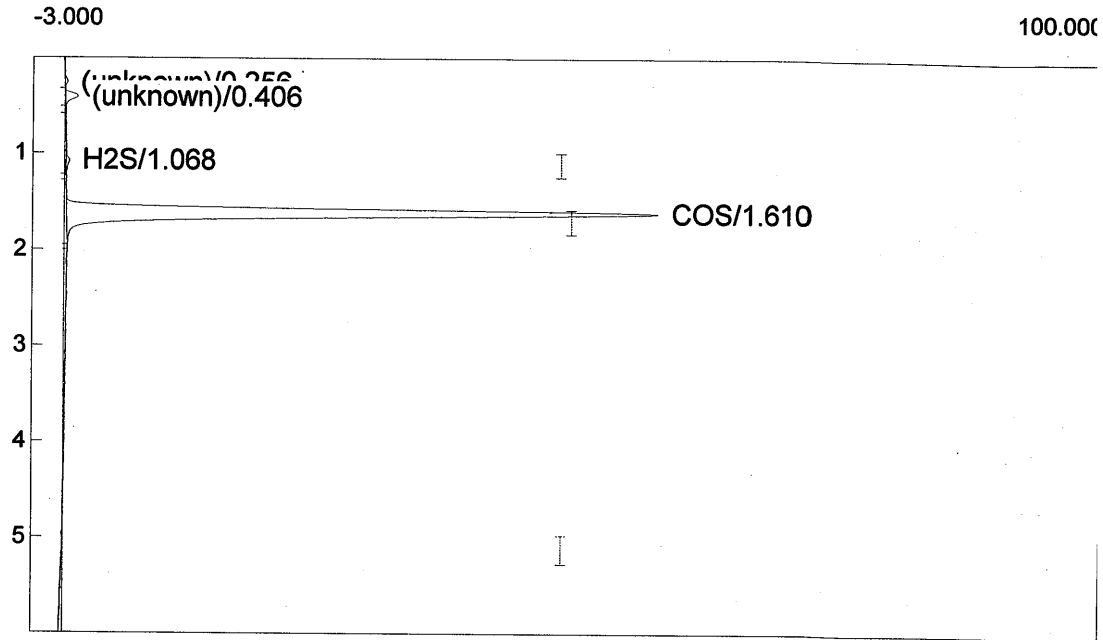
Component	Retention	Height	Area	External	Units
H2S	1.073	0.218	1.0057	1.3584	ppmv
COS	1.606	69.985	398.1932	6.4108	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			399.1989	7.7692	

Lab name: IRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 12:22:28
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 183.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area
 (unknown)/0.256/1.0520
 (unknown)/0.406/5.5792

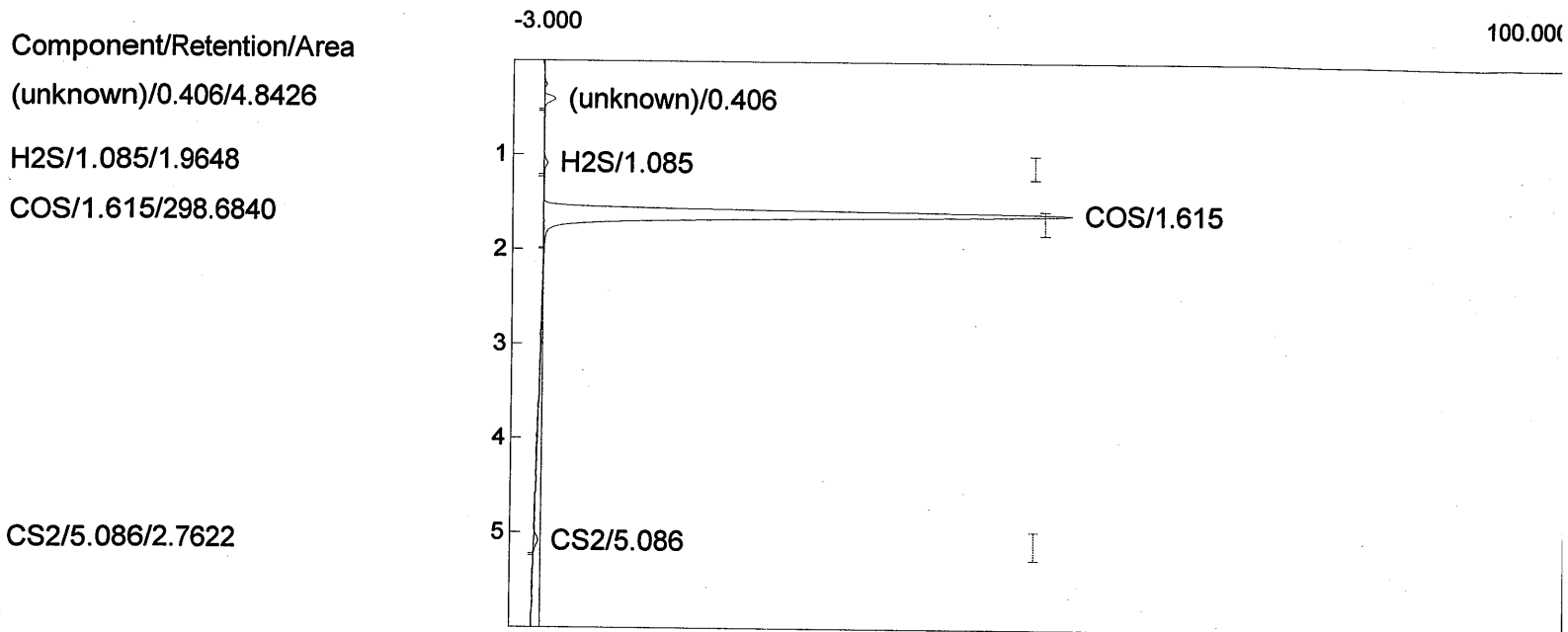
H2S/1.068/1.9377

COS/1.610/329.1806



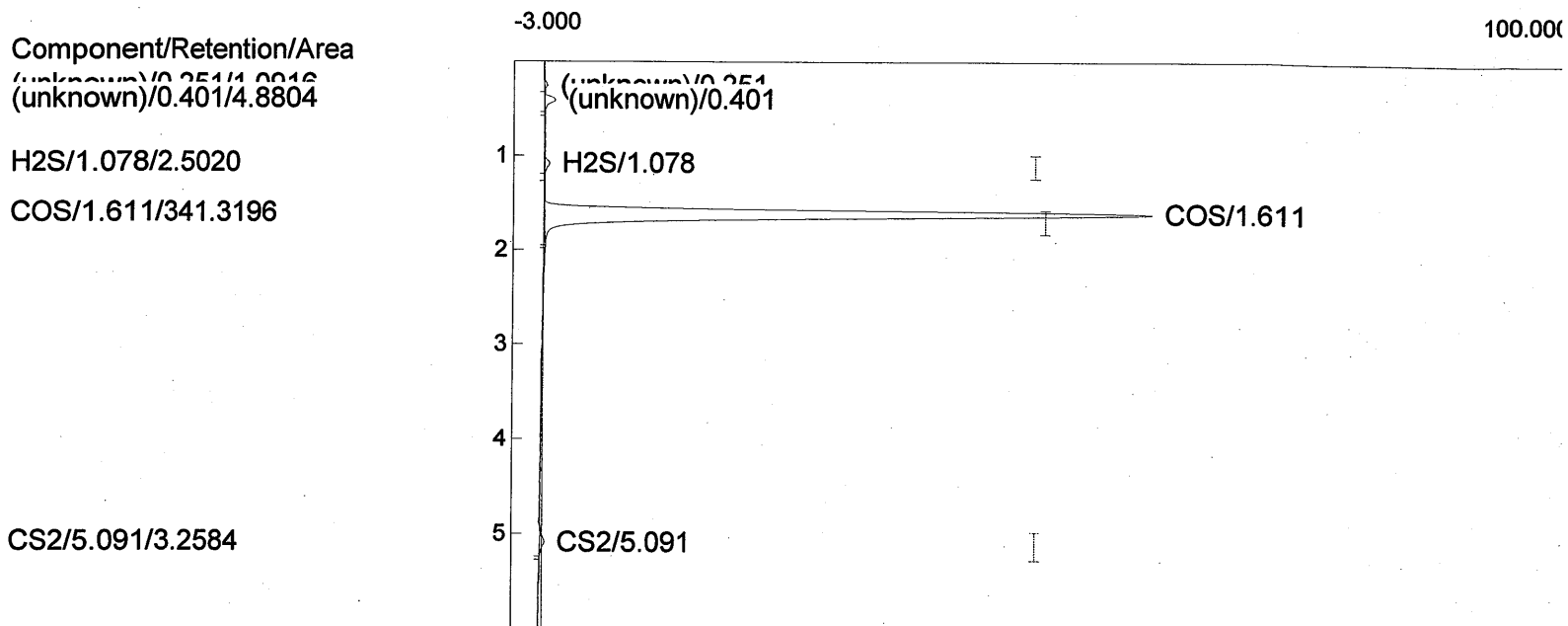
Component	Retention	Height	Area	External	Units
H2S	1.068	0.354	1.9377	1.4130	ppmv
COS	1.610	57.688	329.1806	5.7524	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			331.1183	7.1654	

Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 12:32:28
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 184.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test calcs
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.085	0.378	1.9648	1.4146	ppmv
COS	1.615	52.065	298.6840	5.4204	ppmv
CS2	5.086	0.391	2.7622	0.4020	ppmv
			303.4110	7.2370	

Lab name: IRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 12:42:28
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 185.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.078	0.499	2.5020	1.4460	ppmv
COS	1.611	59.952	341.3196	5.8845	ppmv
CS2	5.091	0.468	3.2584	0.4742	ppmv
			347.0800	7.8047	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 12:52:28
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 186.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

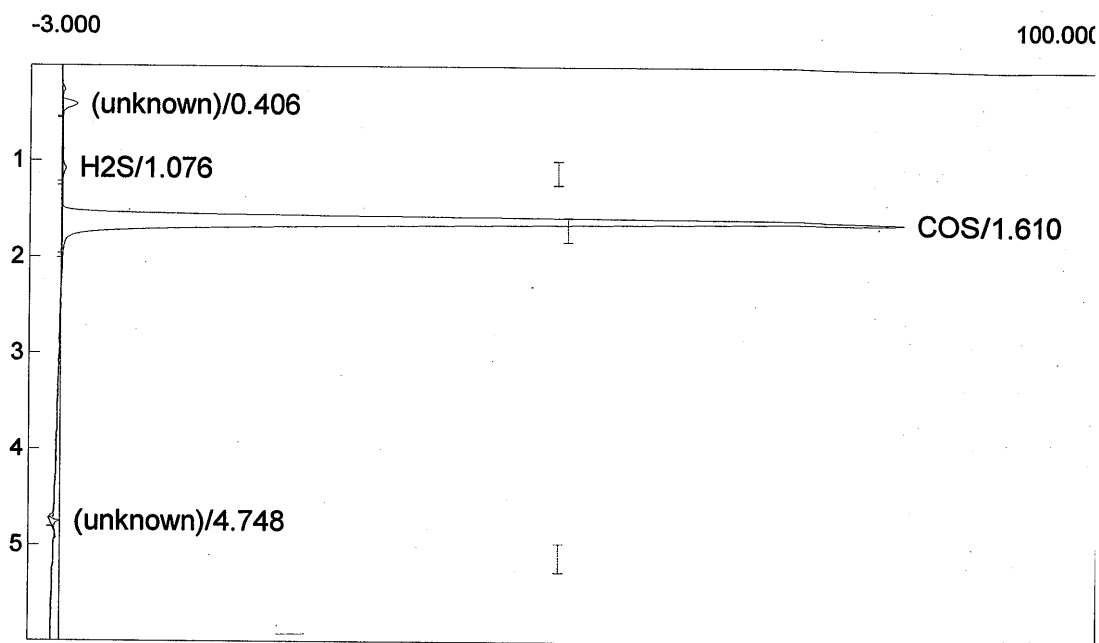
Component/Retention/Area

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H2S/1.076/1.9083

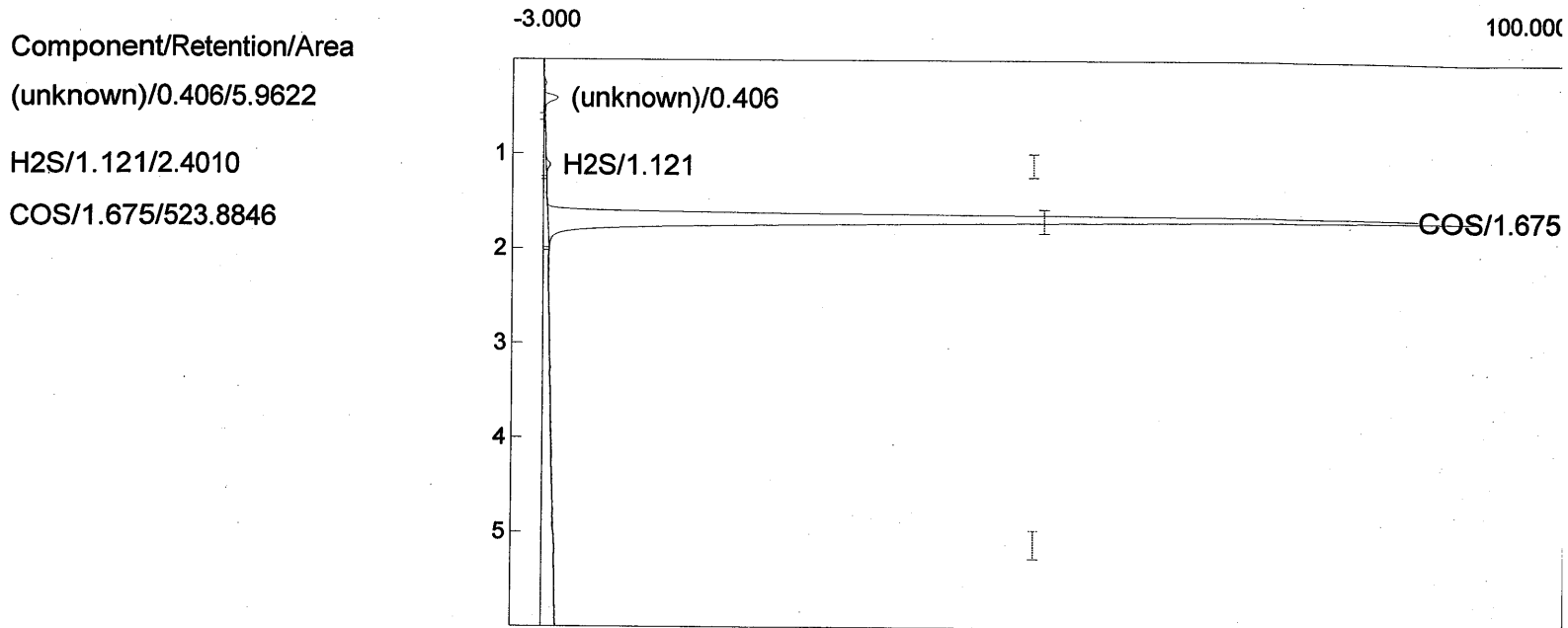
COS/1.610/461.8728

(unknown)/4.748/2.4186



Component	Retention	Height	Area	External	Units
H2S	1.076	0.338	1.9083	1.4112	ppmv
COS	1.610	81.419	461.8728	6.9697	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			463.7811	8.3810	

Lab name: TSC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 13:02:28
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 187.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test calcs
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.121	0.439	2.4010	1.4401	ppmv
COS	1.675	90.624	523.8846	7.5140	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			526.2856	8.9541	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 13:12:28
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 188.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

(unknown)/0.253/1.1128
(unknown)/0.411/5.3656

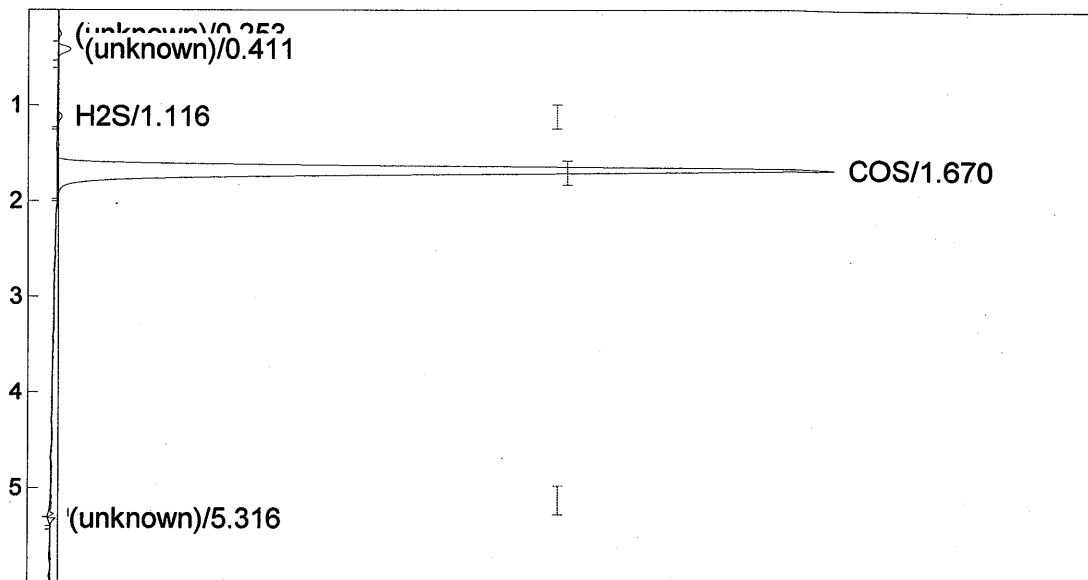
H2S/1.116/2.1902

COS/1.670/437.4865

(unknown)/5.316/1.5551

-3.000

100.000



Component	Retention	Height	Area	External	Units
H2S	1.116	0.440	2.1902	1.4277	ppmv
COS	1.670	75.335	437.4865	6.7557	ppmv
CS2	5.268	0.505	1.1860	0.1726	ppmv
			440.8627	8.3560	

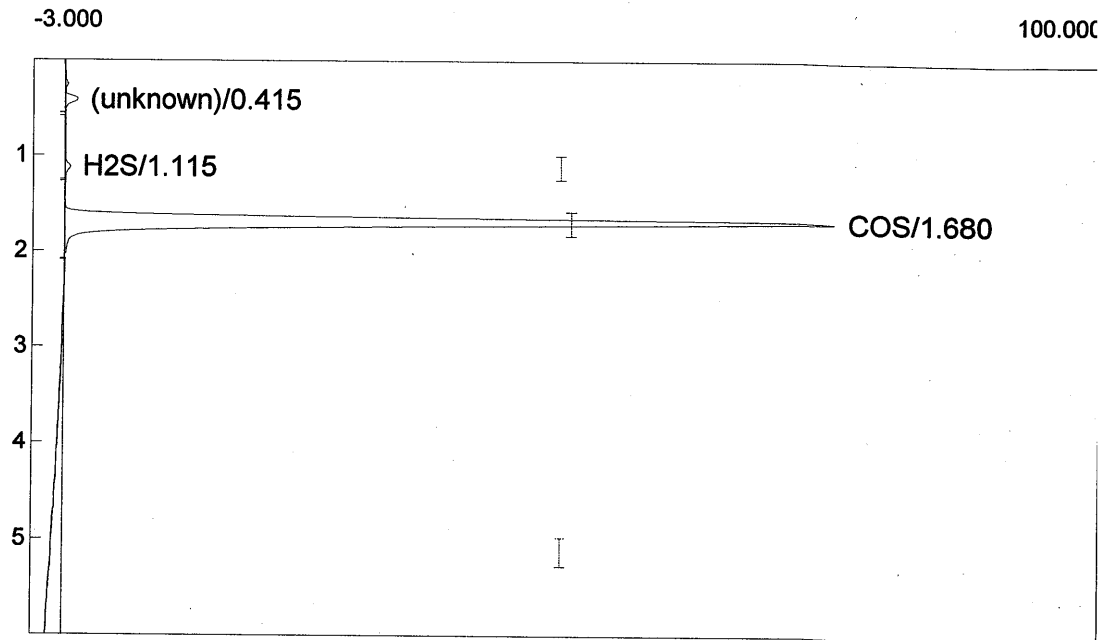
Lab name: IRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 13:22:28
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 189.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

(unknown)/0.415/5.7646

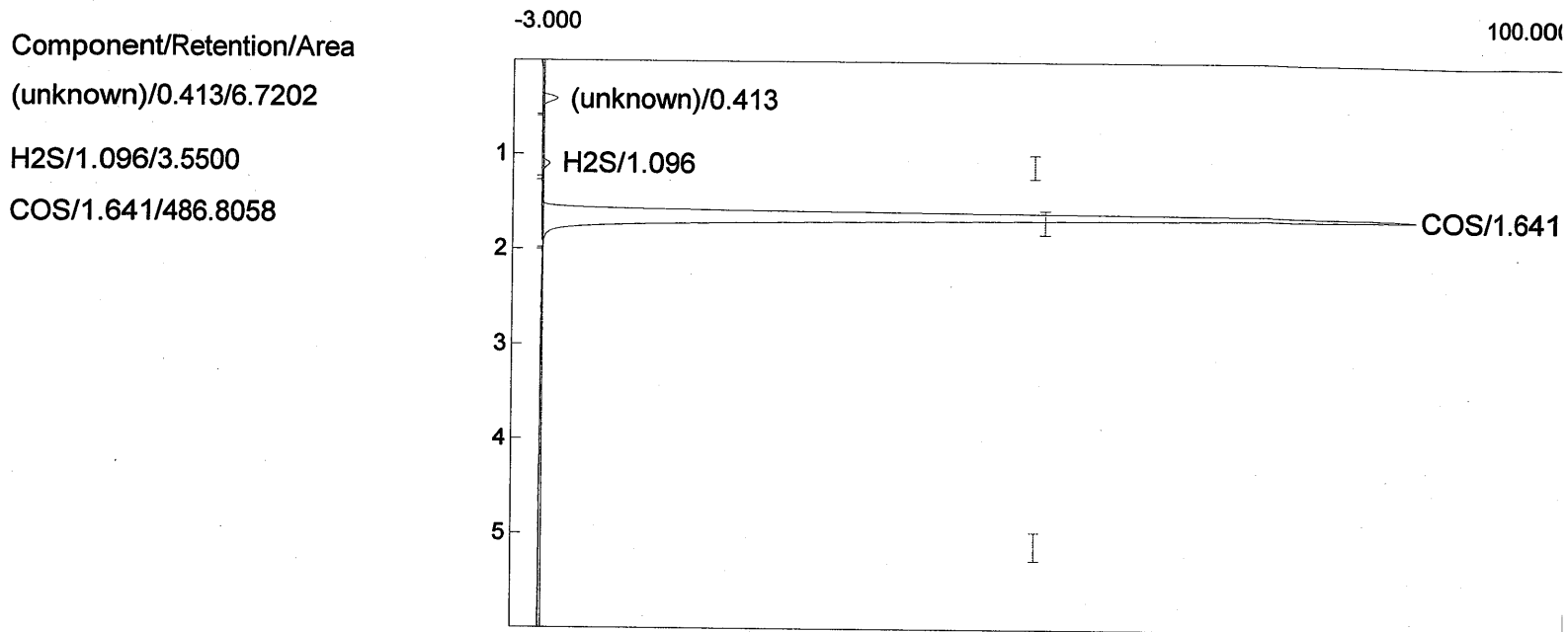
H2S/1.115/2.3581

COS/1.680/433.7576



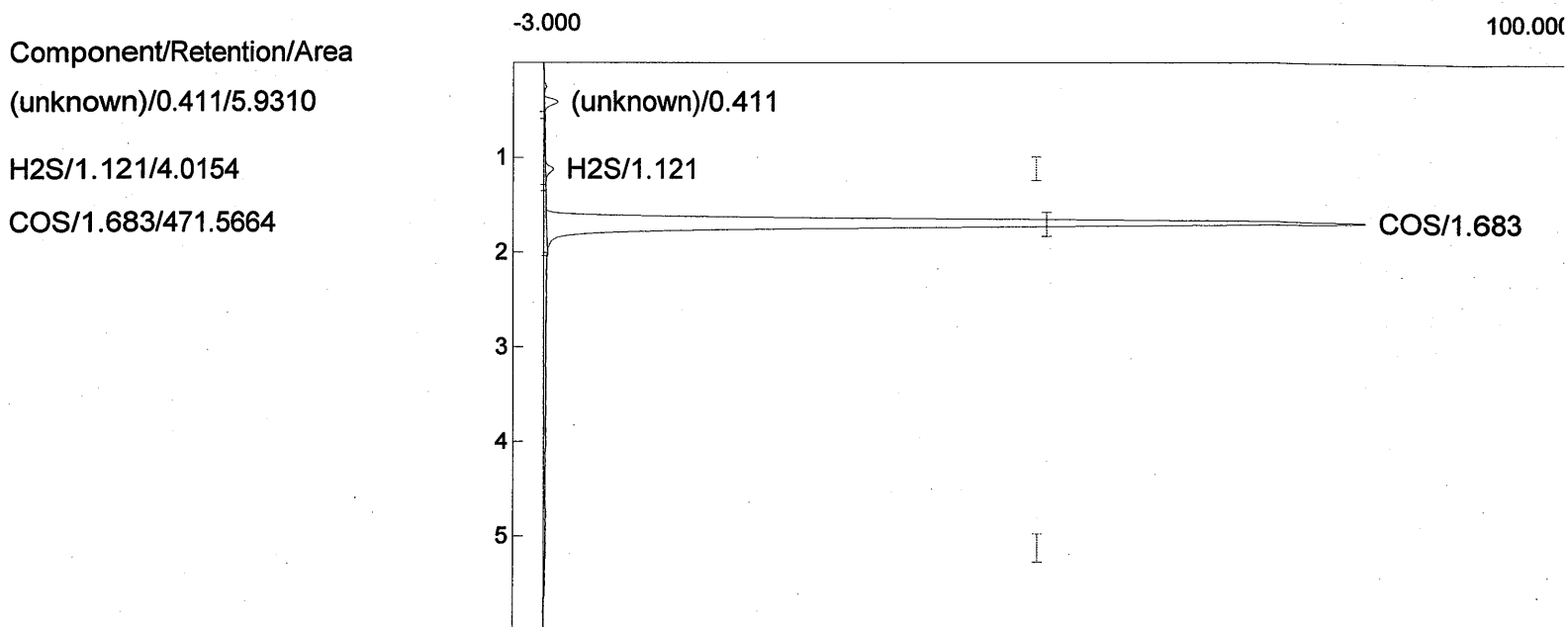
Component	Retention	Height	Area	External	Units
H2S	1.115	0.479	2.3581	1.4376	ppmv
COS	1.680	74.648	433.7576	6.7229	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			436.1157	8.1605	

Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 14:29:07
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 190.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test calcs
 Operator: J. Glass



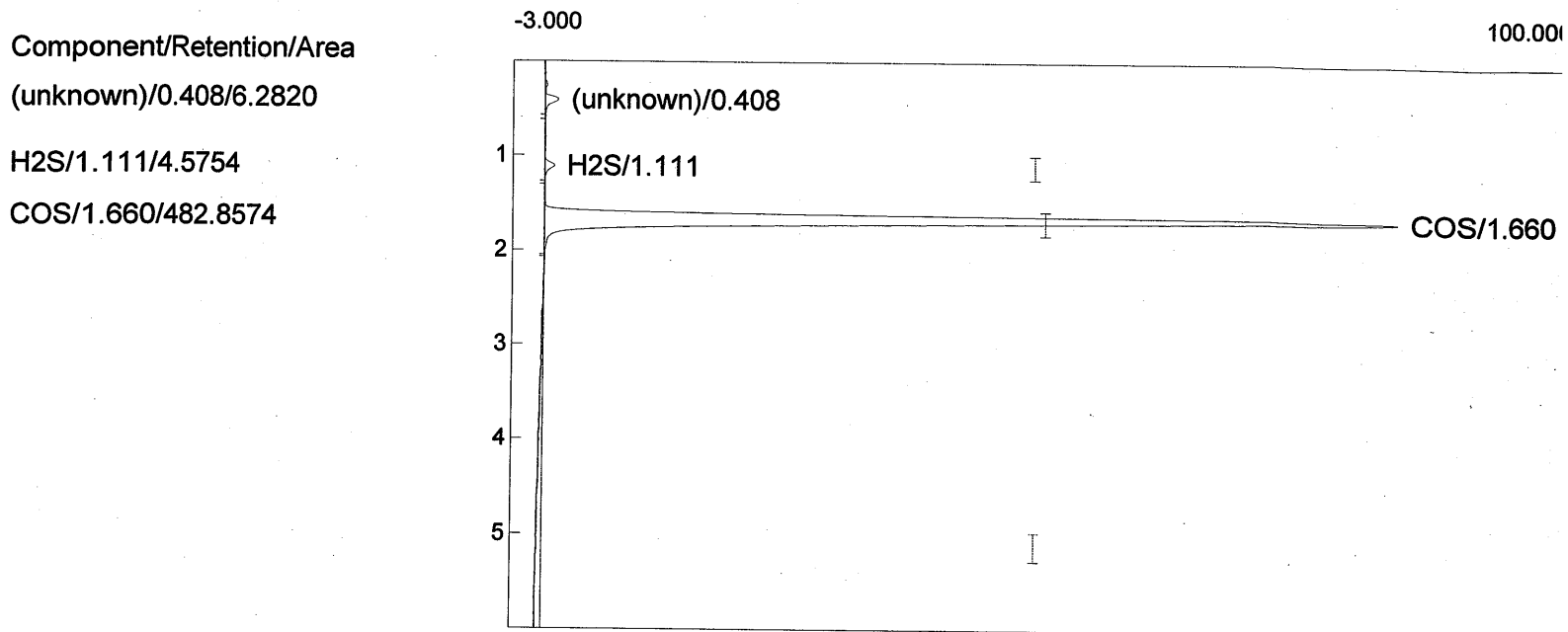
Component	Retention	Height	Area	External	Units
H2S	1.096	0.743	3.5500	1.5073	ppmv
COS	1.641	85.405	486.8058	7.1886	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			490.3558	8.6959	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 14:39:07
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 191.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.121	0.793	4.0154	1.5346	ppmv
COS	1.683	80.130	471.5664	7.0548	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			475.5818	8.5894	

Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 14:49:07
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 192.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test calcs
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.111	0.958	4.5754	1.5674	ppmv
COS	1.660	83.738	482.8574	7.1539	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			487.4328	8.7213	

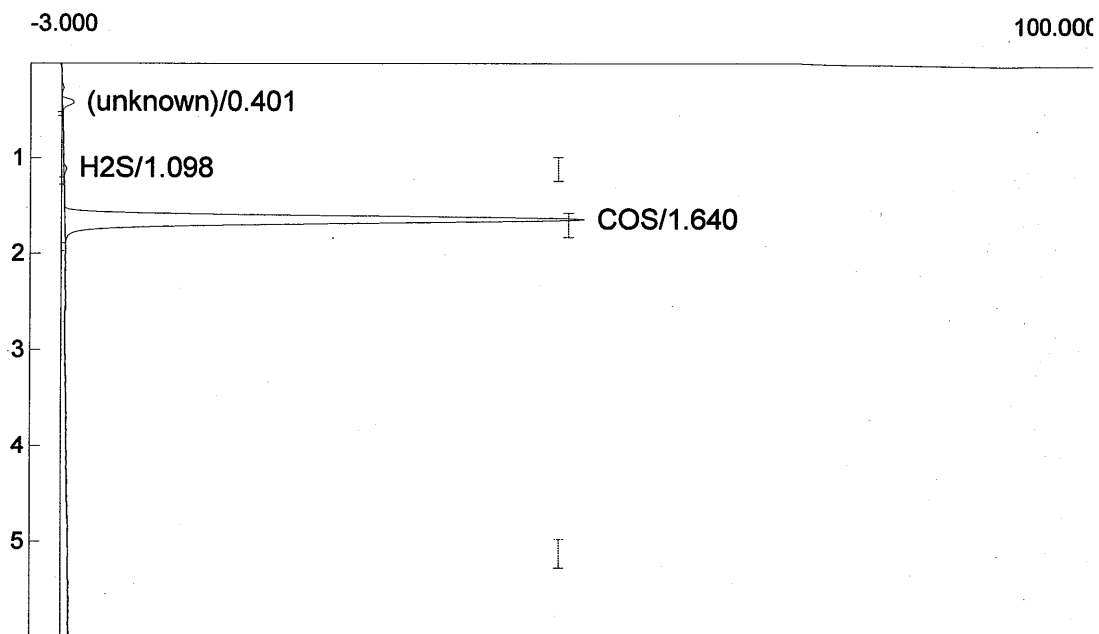
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 15:39:08
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 193.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area

(unknown)/0.401/5.4212

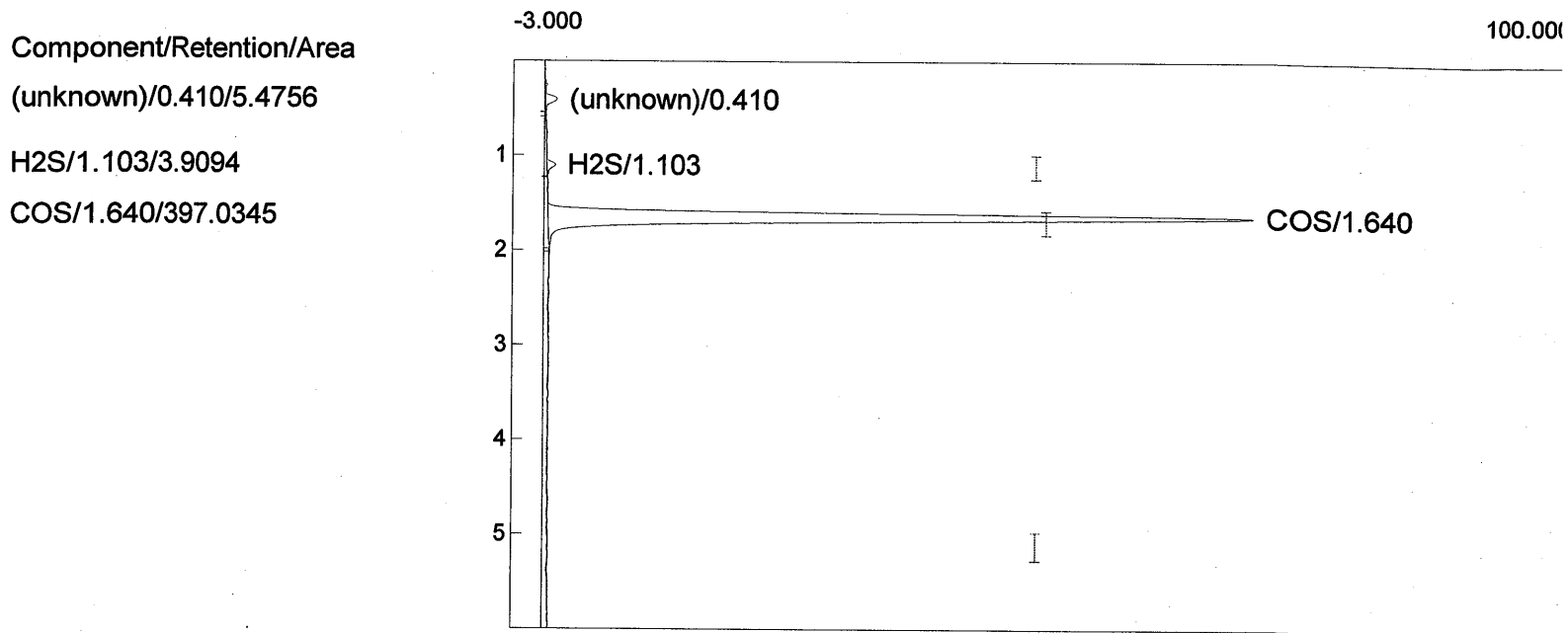
H2S/1.098/1.3425

COS/1.640/286.9281



Component	Retention	Height	Area	External	Units
H2S	1.098	0.314	1.3425	1.3781	ppmv
COS	1.640	50.714	286.9281	5.2925	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			288.2706	6.6706	

Lab name: IRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 15:49:08
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 194.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.103	0.858	3.9094	1.5284	ppmv
COS	1.640	69.682	397.0345	6.4006	ppmv
CS2	0.000	0.000	0.0000	0.0000	ppmv
			400.9439	7.9290	

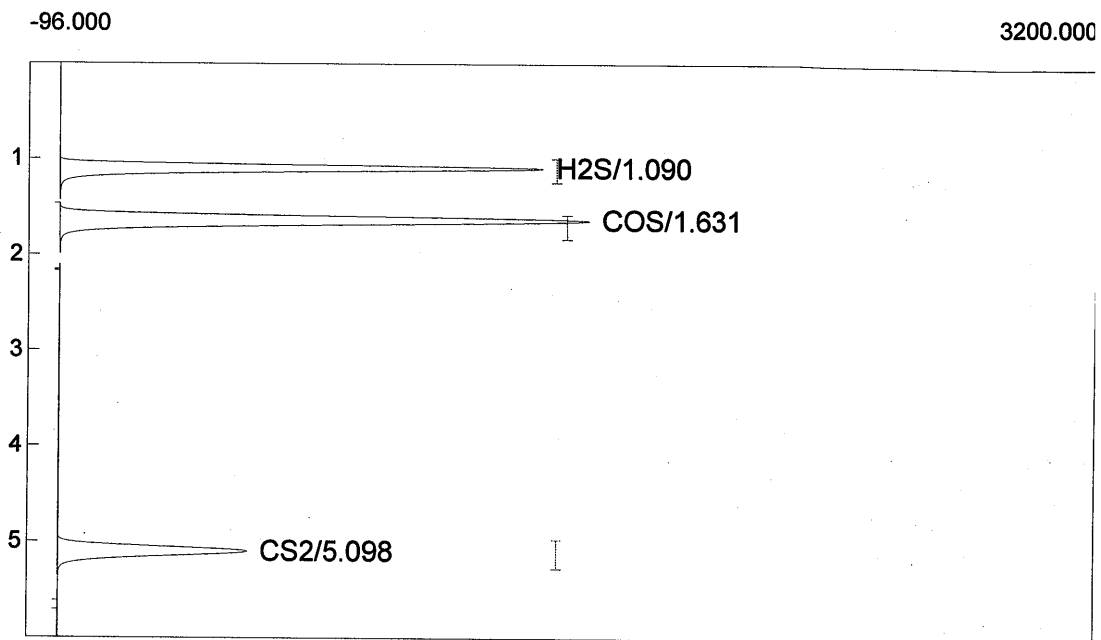
Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 16:45:02
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 195.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test calcs
 Operator: J. Glass

Component/Retention/Area

H2S/1.090/7259.2342

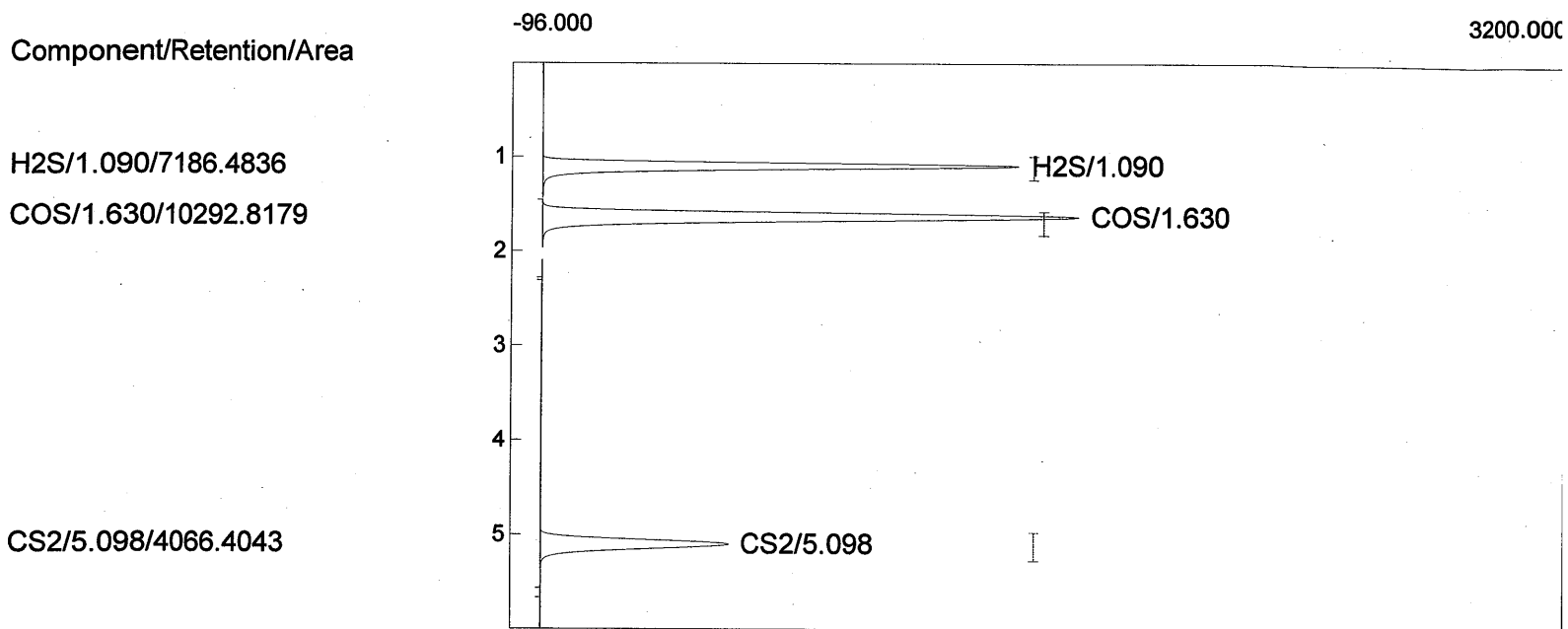
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CS2/5.098/4070.5587



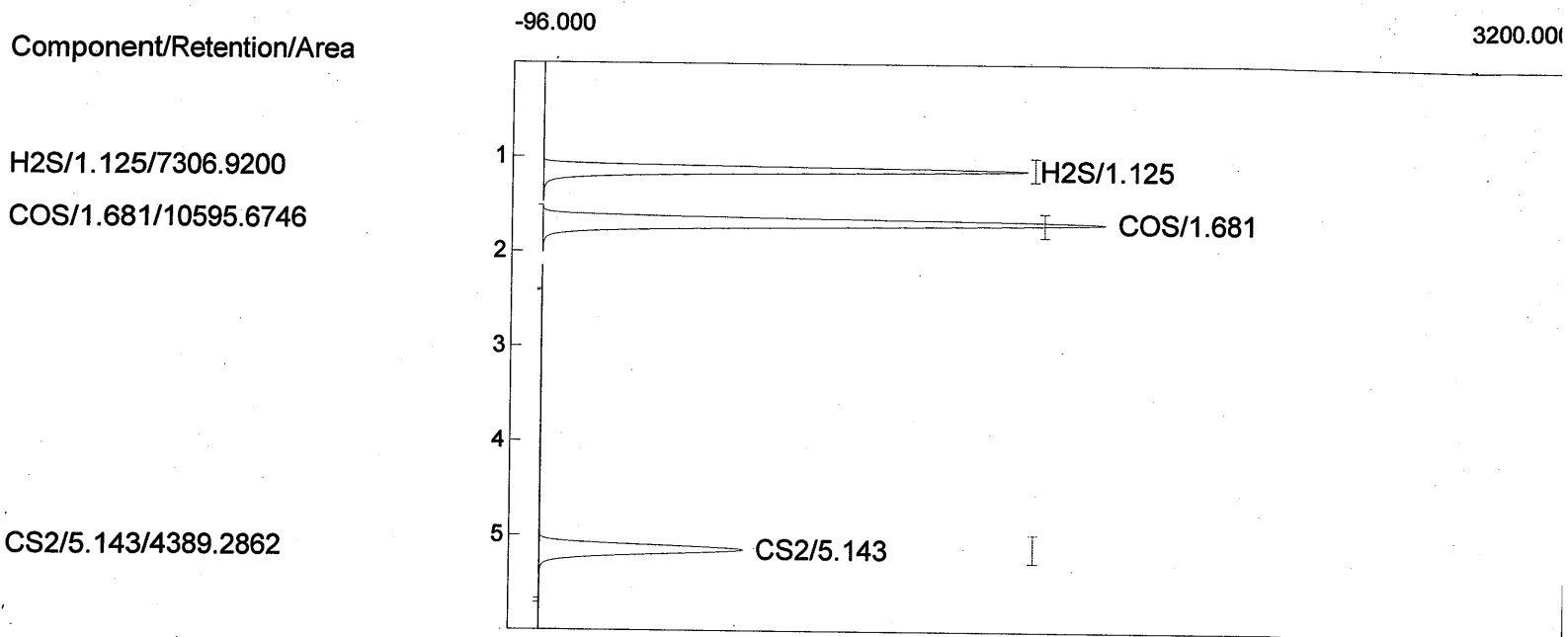
Component	Retention	Height	Area	External	Units
H2S	1.090	1510.472	7259.2342	31.3471	ppmv
COS	1.631	1651.520	10295.4310	36.5024	ppmv
CS2	5.098	588.076	4070.5587	11.9155	ppmv
			21625.2239	79.7650	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 16:54:02
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 196.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.090	1505.643	7186.4836	31.1833	ppmv
COS	1.630	1693.428	10292.8179	36.4977	ppmv
CS2	5.098	590.970	4066.4043	11.9094	ppmv
			21545.7058	79.5905	

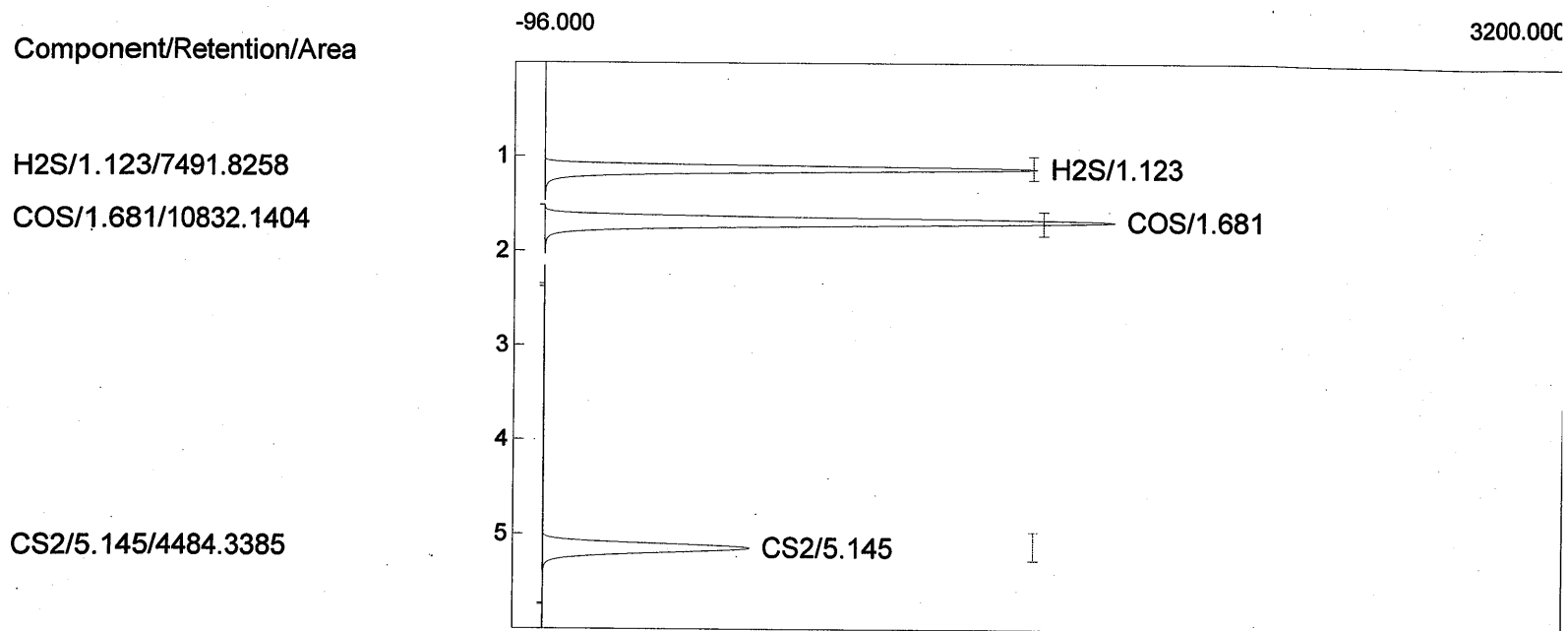
Lab Name: IRO Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 17:39:02
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 197.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU.
 Sample: Pre-test cals
 Operator: J. Glass



Component	Retention	Height	Area	External	Units
H2S	1.125	1529.248	7306.9200	31.4545	ppmv
COS	1.681	1772.881	10595.6746	37.0434	ppmv
CS2	5.143	640.380	4389.2862	12.3679	ppmv
			22291.8808	80.8658	

Lab name: TRC Environmental
 Client: ExxonMobil Baytown ICR
 Analysis date: 07/07/2011 17:48:02
 Method: 1-ml SS Loop
 Description: SCU2 T-601
 Column: Rt-Sulfur Micropack 1-m
 Carrier: N2@ 25 psig
 Data file: T-601 FPD GC-1 198.CHR (S:\Projects_2010\D-F\ExxonMobil\Baytown_Texas\SCU2\184380_SCU2_SRU_
 Sample: Pre-test cals
 Operator: J. Glass

Component/Retention/Area



Component	Retention	Height	Area	External	Units
H2S	1.123	1565.681	7491.8258	31.8709	ppmv
COS	1.681	1803.516	10832.1404	37.4694	ppmv
CS2	5.145	653.575	4484.3385	12.5006	ppmv
			22808.3047	81.8410	