

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 11:34:39  
 Method: 1ml valve loop injonly  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration437.CHR ()  
 Sample: 1% mix

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 11:34:39  
 Method: 1ml valve loop injonly  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD572.CHR ()  
 Sample: 1% mix

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	10.000	0.000	40.00

Events:

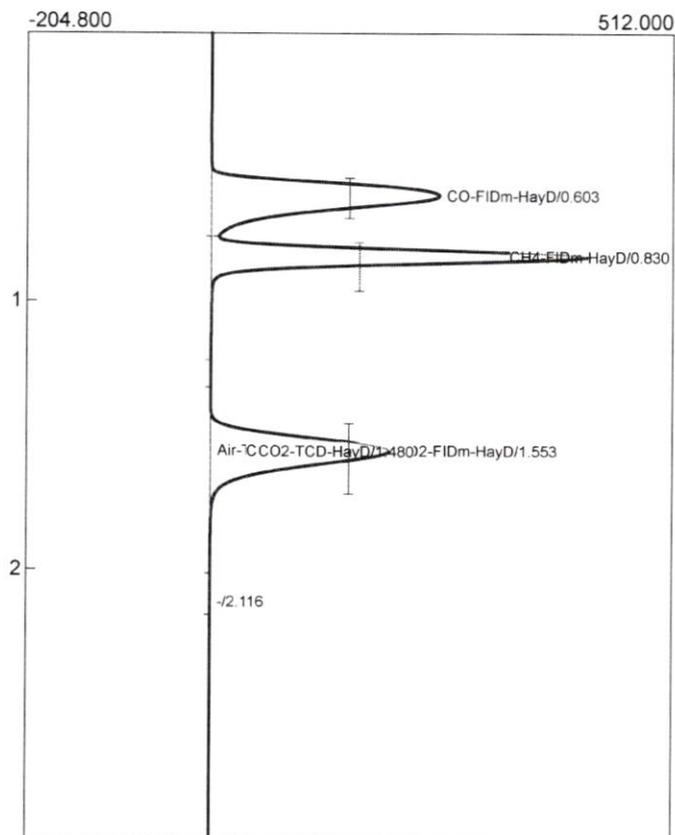
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

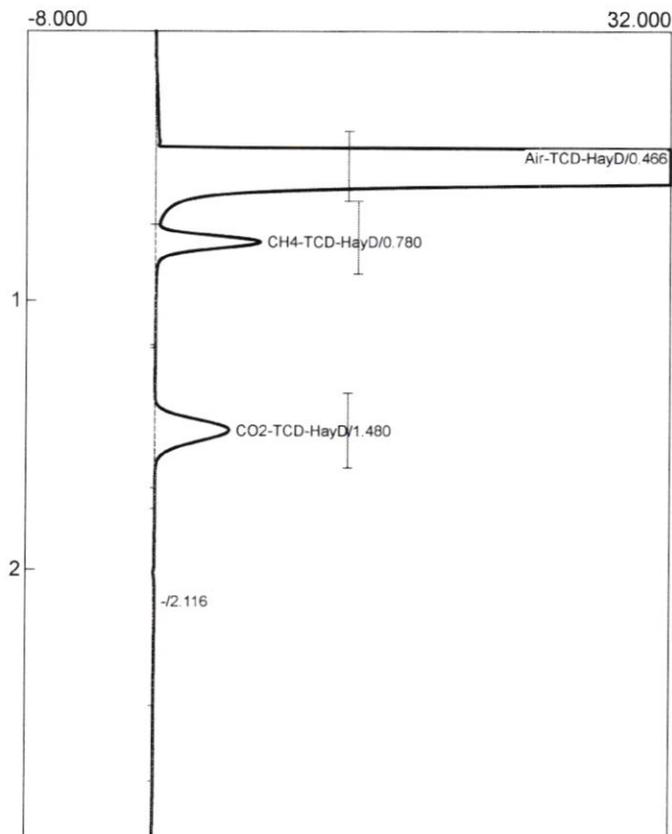
Init temp	Hold	Ramp	Final temp
40.00	10.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.603	1708.2760	1.0000	%
CH4-FIDm-HayD	0.830	1528.4651	1.0000	%
CO2-FIDm-HayD	1.553	1467.6940	1.0000	%
Air-TCD-HayD	0.466	3003.5270	94.9982	%
CH4-TCD-HayD	0.780	23.7818	0.9983	%
CO2-TCD-HayD	1.480	27.3332	1.0000	%
	7759.0771		99.9965	



Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.466	3003.5270	94.9982	%
CH4-TCD-HayD	0.780	23.7818	0.9983	%
CO2-TCD-HayD	1.480	27.3332	1.0000	%
		3054.6420	96.9965	

1% MIX CALIBRATE ON THIS RUN.

METHANIZER STABILITY AFTER  
 10% CO INJECTION

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:19:39  
 Method: 1ml valve loop injonly  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration438.CHR ()  
 Sample: 1% mix

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:19:39  
 Method: 1ml valve loop injonly  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD573.CHR ()  
 Sample: 1% mix

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	10.000	0.000	40.00

Events:

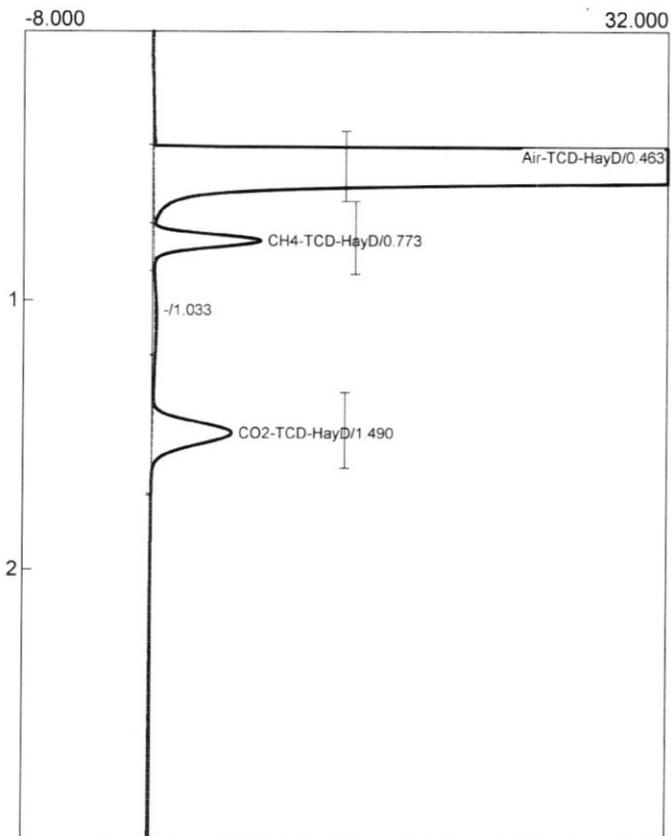
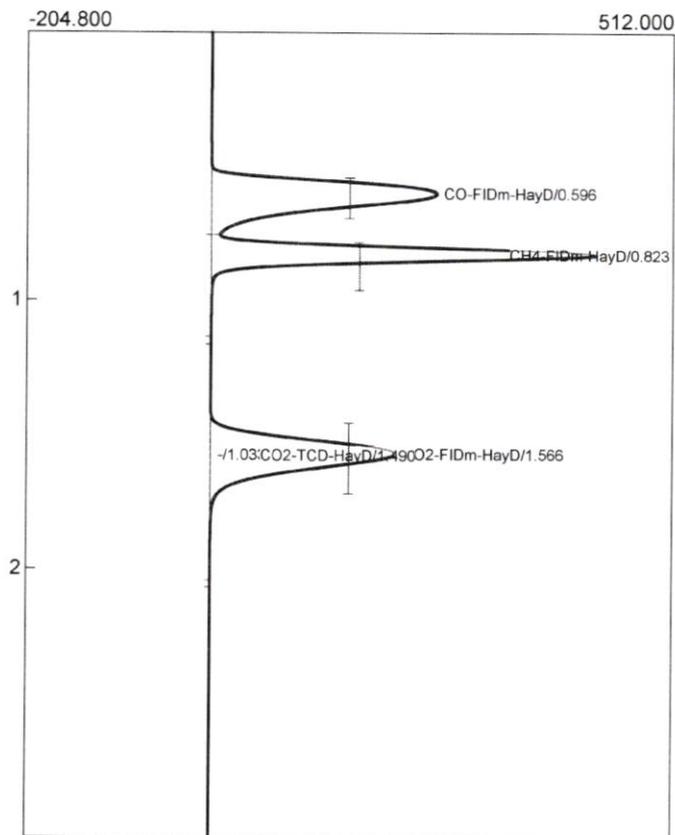
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	10.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.596	1708.3870	1.0001	%
CH4-FIDm-HayD	0.823	1562.4546	1.0222	%
CO2-FIDm-HayD	1.566	1551.0752	1.0568	%
Air-TCD-HayD	0.463	3060.2357	96.7918	%
CH4-TCD-HayD	0.773	22.2158	0.9326	%
CO2-TCD-HayD	1.490	29.0041	1.0611	%
		7933.3724	101.8647	

Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.463	3060.2357	96.7918	%
CH4-TCD-HayD	0.773	22.2158	0.9326	%
CO2-TCD-HayD	1.490	29.0041	1.0611	%
		3111.4556	98.7855	

*2nd Run 1% mix*

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:32:18  
 Method: 1ml valve loop injonly  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration440.CHR ()  
 Sample: 1000ppm CO in Helium

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:32:18  
 Method: 1ml valve loop injonly  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD575.CHR ()  
 Sample: 1000ppm CO in Helium

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

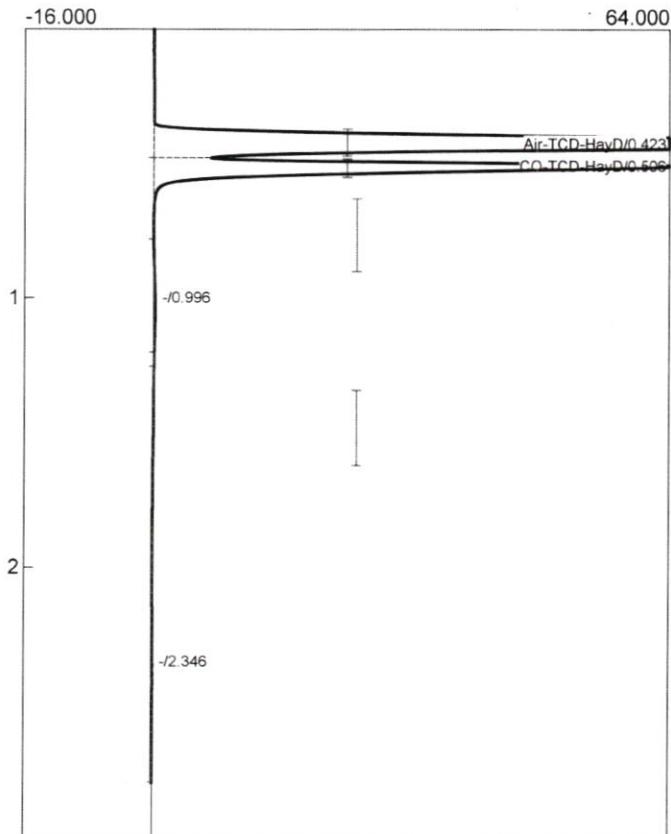
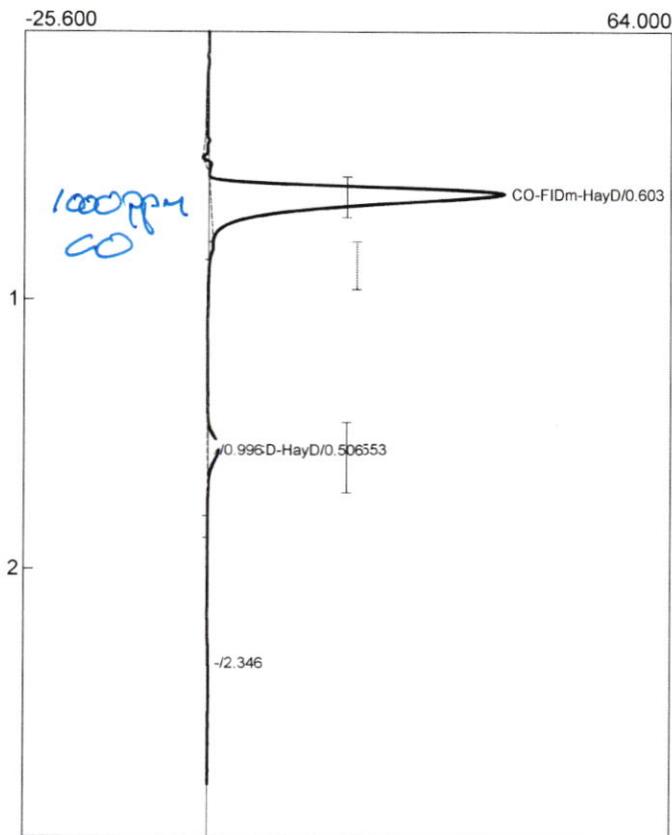
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.603	191.9248	0.1123	%
CH4-FIDm-HayD	0.000	0.0000	0.0000	%
CO2-FIDm-HayD	1.553	11.2458	0.0077	%
Air-TCD-HayD	0.423	378.6626	11.9767	%
CO-TCD-HayD	0.506	165.3358	0.1000	%
CH4-TCD-HayD	0.000	0.0000	0.0000	%
CO2-TCD-HayD	0.000	0.0000	0.0000	%
		747.1690	12.1967	

Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.423	378.6626	11.9767	%
CO-TCD-HayD	0.506	165.3358	0.1000	%
CH4-TCD-HayD	0.000	0.0000	0.0000	%
CO2-TCD-HayD	0.000	0.0000	0.0000	%
		543.9984	12.0767	

1000ppm CO in Helium

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:37:39  
 Method: 1ml valve loop injonly  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration441.CHR ()  
 Sample: 10% CO

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:37:39  
 Method: 1ml valve loop injonly  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD576.CHR ()  
 Sample: 10% CO

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

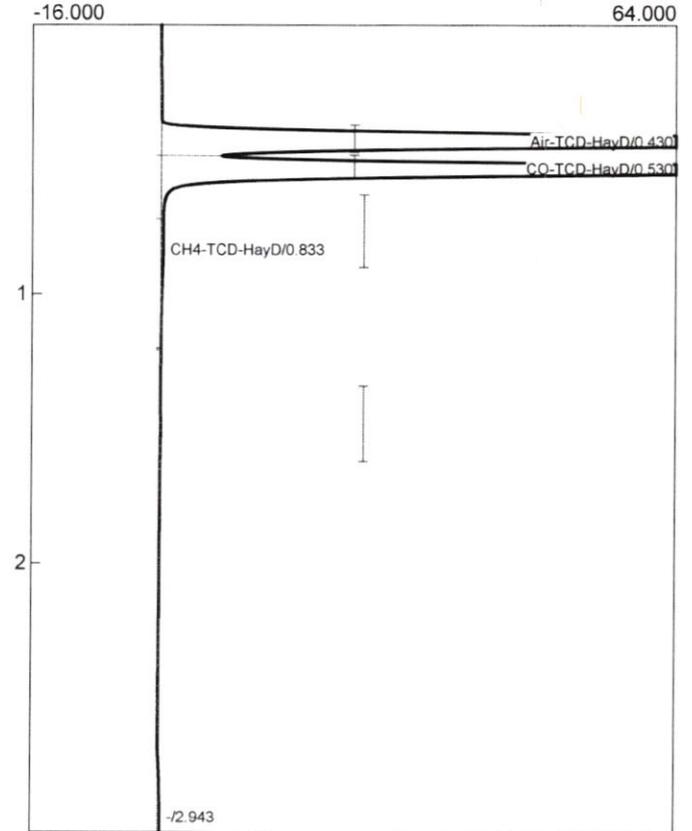
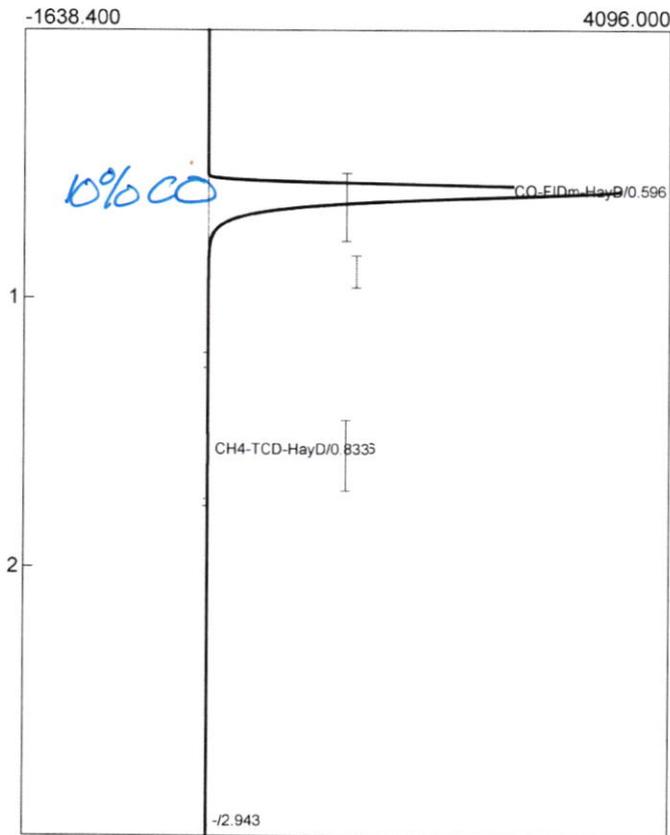
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.596	15361.8110	8.9926	%
CH4-FIDm-HayD	0.000	0.0000	0.0000	%
CO2-FIDm-HayD	1.556	31.4853	0.0215	%
Air-TCD-HayD	0.430	364.2410	11.5205	%
CO-TCD-HayD	0.530	330.9609	0.2002	%
CH4-TCD-HayD	0.833	4.8786	0.2048	%
CO2-TCD-HayD	0.000	0.0000	0.0000	%
		16093.3768	20.9395	

Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.430	364.2410	11.5205	%
CO-TCD-HayD	0.530	330.9609	0.2002	%
CH4-TCD-HayD	0.833	4.8786	0.2048	%
CO2-TCD-HayD	0.000	0.0000	0.0000	%
		700.0805	11.9255	

10% CO in Helium

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:45:49  
 Method: 1ml valve loop injonjy  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration442.CHR ()  
 Sample: 10% CO

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:45:49  
 Method: 1ml valve loop injonjy  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD577.CHR ()  
 Sample: 10% CO

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

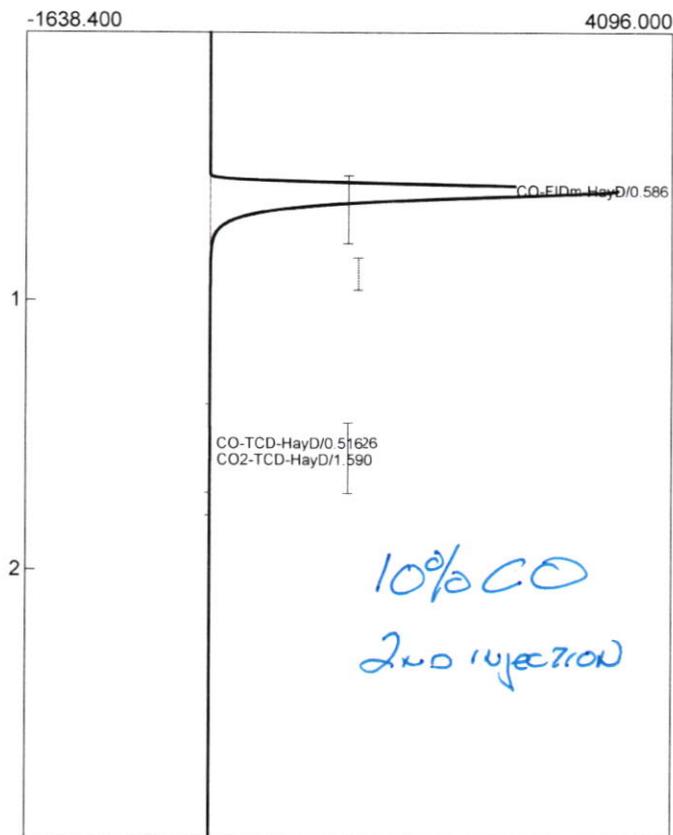
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

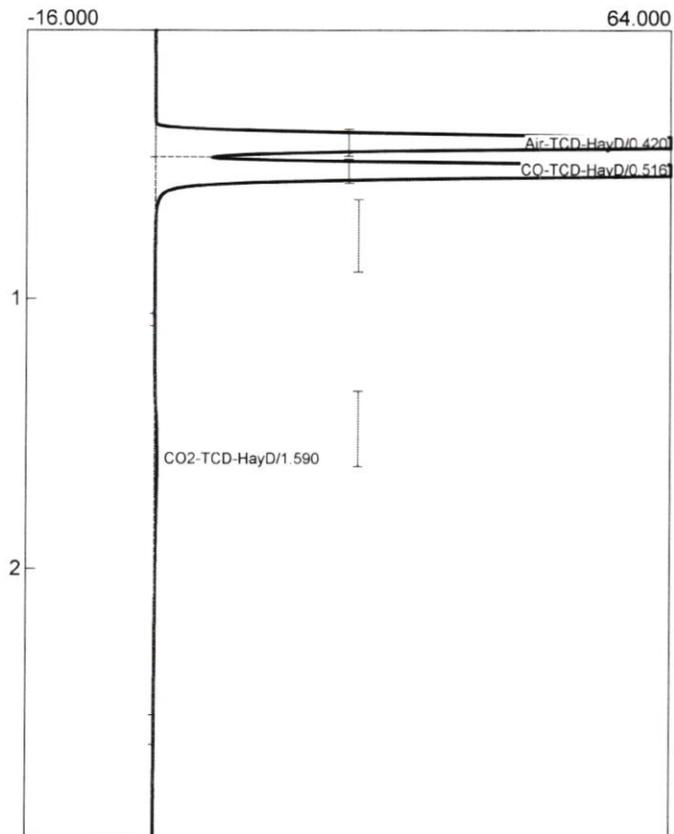
Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.586	15280.8956	8.9452	%
CH4-FIDm-HayD	0.000	0.0000	0.0000	%
CO2-FIDm-HayD	1.526	31.8430	0.0217	%
Air-TCD-HayD	0.420	361.3287	11.4284	%
CO-TCD-HayD	0.516	359.3802	0.2174	%
CH4-TCD-HayD	0.000	0.0000	0.0000	%
CO2-TCD-HayD	1.590	11.5840	0.4238	%
	16045.0315		21.0365	



Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.420	361.3287	11.4284	%
CO-TCD-HayD	0.516	359.3802	0.2174	%
CH4-TCD-HayD	0.000	0.0000	0.0000	%
CO2-TCD-HayD	1.590	11.5840	0.4238	%
		732.2929	12.0696	

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:50:29  
 Method: 1ml valve loop injonjy  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration443.CHR ()  
 Sample: 1% mix after CO challenge

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:50:29  
 Method: 1ml valve loop injonjy  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD578.CHR ()  
 Sample: 1% mix after CO challenge

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

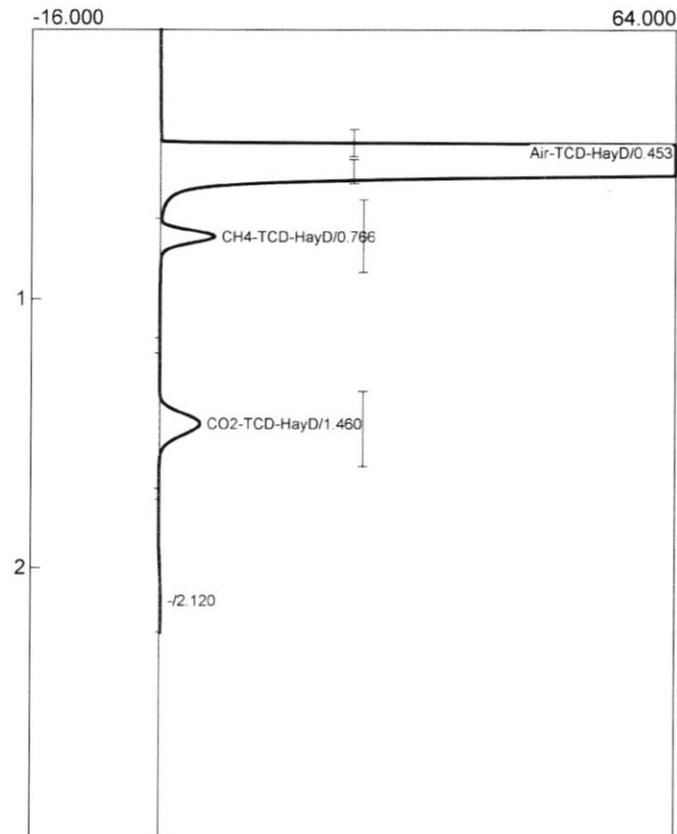
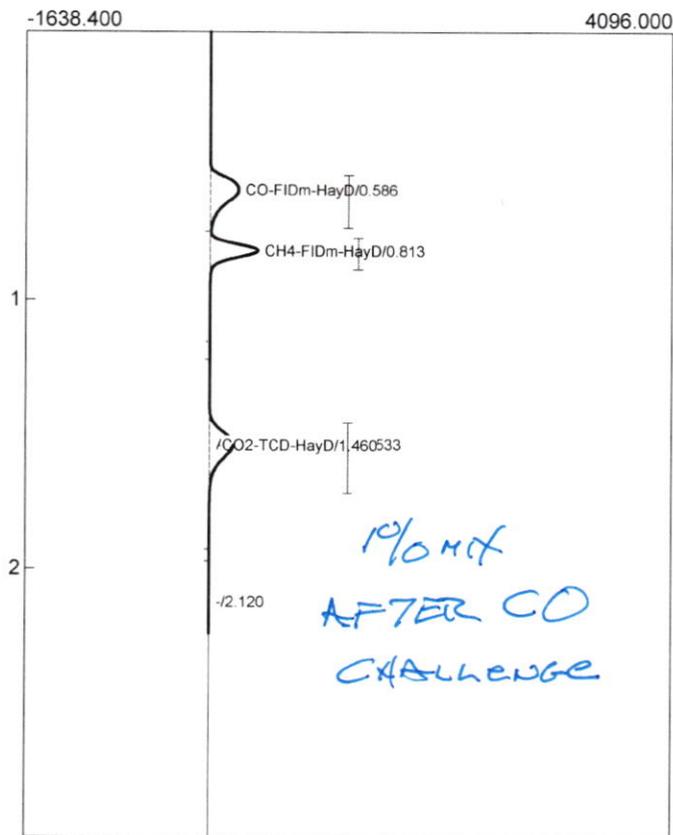
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.586	1684.6290	0.9862	%
CH4-FIDm-HayD	0.813	1527.4048	0.9993	%
CO2-FIDm-HayD	1.533	1554.9204	1.0594	%
Air-TCD-HayD	0.453	3075.9658	97.2894	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.766	23.8501	1.0012	%
CO2-TCD-HayD	1.460	29.8504	1.0921	%
		7896.6205	102.4275	

Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.453	3075.9658	97.2894	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.766	23.8501	1.0012	%
CO2-TCD-HayD	1.460	29.8504	1.0921	%
		3129.6663	99.3826	

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:53:48  
 Method: 1ml valve loop injonly  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration444.CHR ()  
 Sample: 1% mix after CO challenge

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:53:48  
 Method: 1ml valve loop injonly  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD579.CHR ()  
 Sample: 1% mix after CO challenge

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

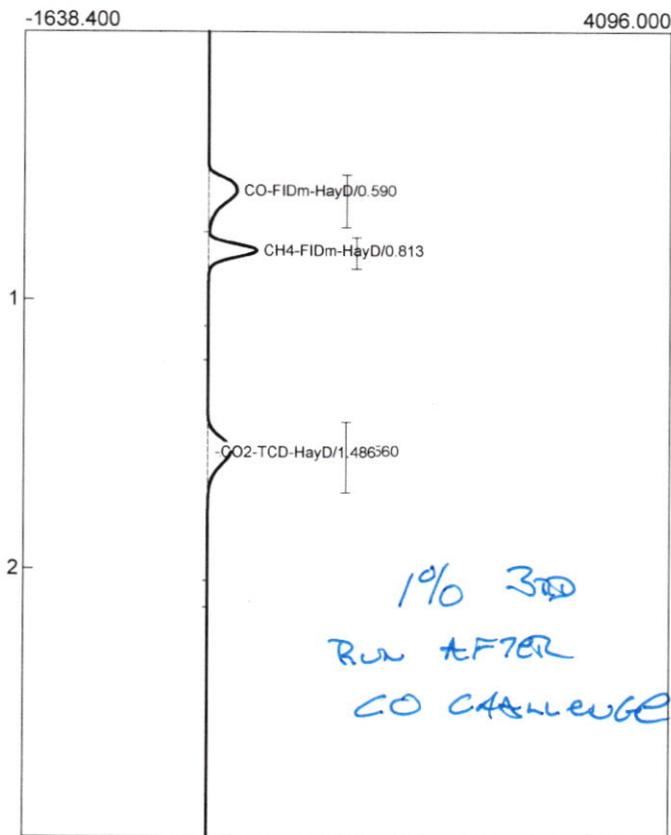
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

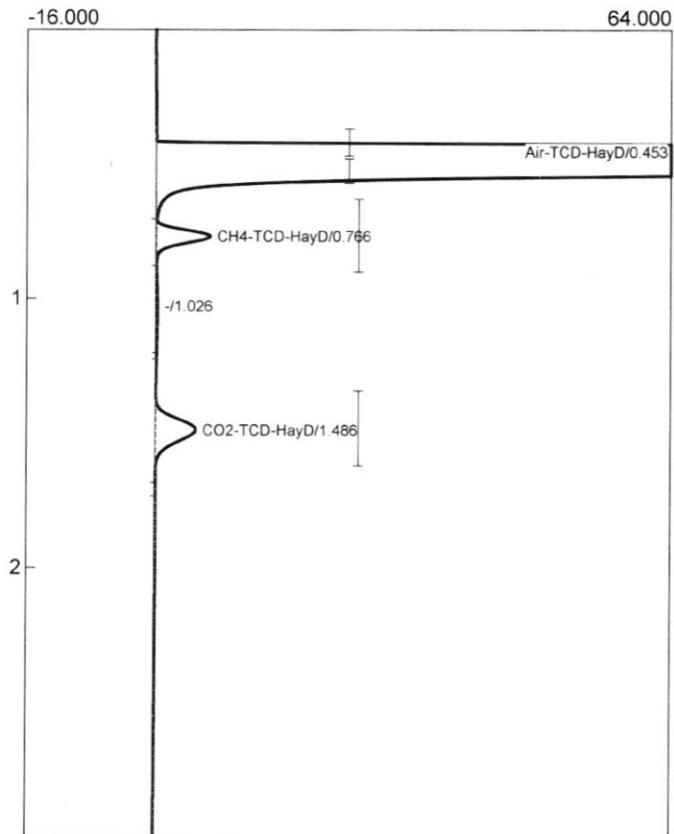
Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.590	1702.7082	0.9967	%
CH4-FIDm-HayD	0.813	1551.6289	1.0152	%
CO2-FIDm-HayD	1.560	1546.5481	1.0537	%
Air-TCD-HayD	0.453	3082.4798	97.4954	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.766	22.5332	0.9459	%
CO2-TCD-HayD	1.486	29.2426	1.0699	%
		7935.1408	102.5768	



Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.453	3082.4798	97.4954	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.766	22.5332	0.9459	%
CO2-TCD-HayD	1.486	29.2426	1.0699	%
		3134.2556	99.5112	

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:57:41  
 Method: 1ml valve loop injonly  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration445.CHR ()  
 Sample: 1% mix after CO challenge

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 12:57:41  
 Method: 1ml valve loop injonly  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD580.CHR ()  
 Sample: 1% mix after CO challenge

Temperature program:

Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

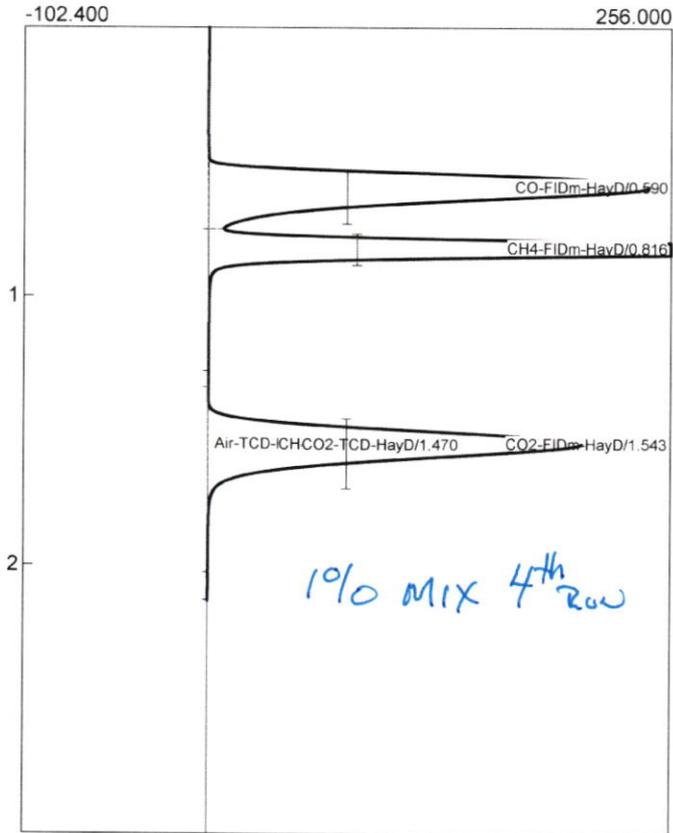
Time	Event
0.000	ZERO
0.050	G ON (Valve1)
0.400	G OFF (Valve1)

Temperature program:

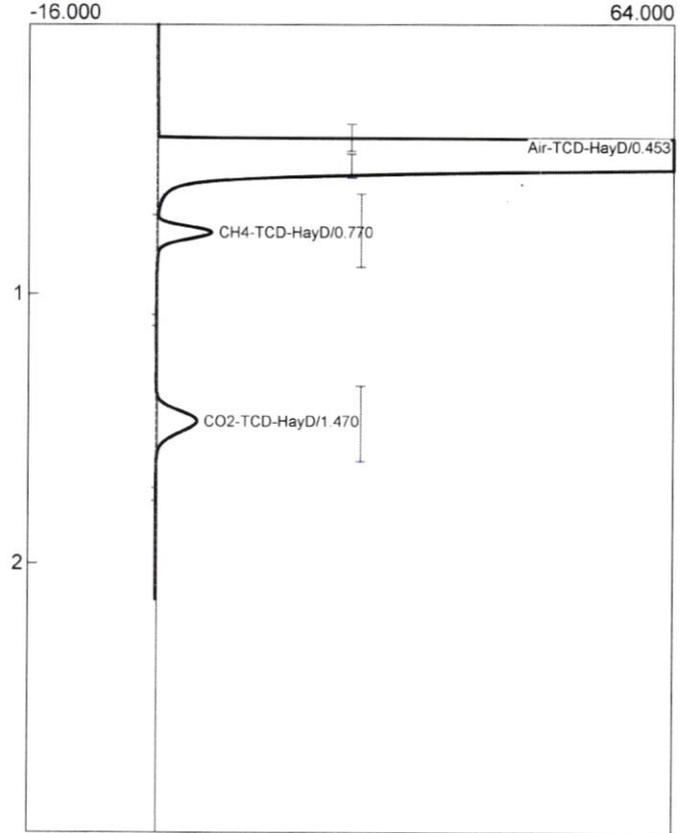
Init temp	Hold	Ramp	Final temp
40.00	5.000	0.000	40.00

Events:

Time	Event
0.000	ZERO
1.200	INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.590	1665.1812	0.9748	%
CH4-FIDm-HayD	0.816	1516.7742	0.9924	%
CO2-FIDm-HayD	1.543	1530.8748	1.0430	%
Air-TCD-HayD	0.453	3063.2887	96.8884	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.770	23.5071	0.9868	%
CO2-TCD-HayD	1.470	29.6024	1.0830	%
		7829.2284	101.9684	



Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.453	3063.2887	96.8884	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.770	23.5071	0.9868	%
CO2-TCD-HayD	1.470	29.6024	1.0830	%
		3116.3982	98.9582	

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 13:00:38  
 Method: 1ml valve loop injonjy  
 Description: FIDmeth medgain 353C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=95.0 Base sens= 1.0 Min area= 10.00 Standar  
 Data file: 333calibration446.CHR ()  
 Sample: 1% mix after CO challenge

Lab name: SRI Instruments  
 Client: SRI  
 Client ID: N12877  
 Analysis date: 06/06/2025 13:00:38  
 Method: 1ml valve loop injonjy  
 Description: TCD low current 100C  
 Column: 6' HayD  
 Carrier: H2@10psi=34ml/min  
 Integration: Peak sens=80.0 Base sens= 1.0 Min area= 1.00 Standar  
 Data file: Cornell-TCD581.CHR ()  
 Sample: 1% mix after CO challenge

Temperature program:

Init temp 40.00 Hold 5.000 Ramp 0.000 Final temp 40.00

Events:

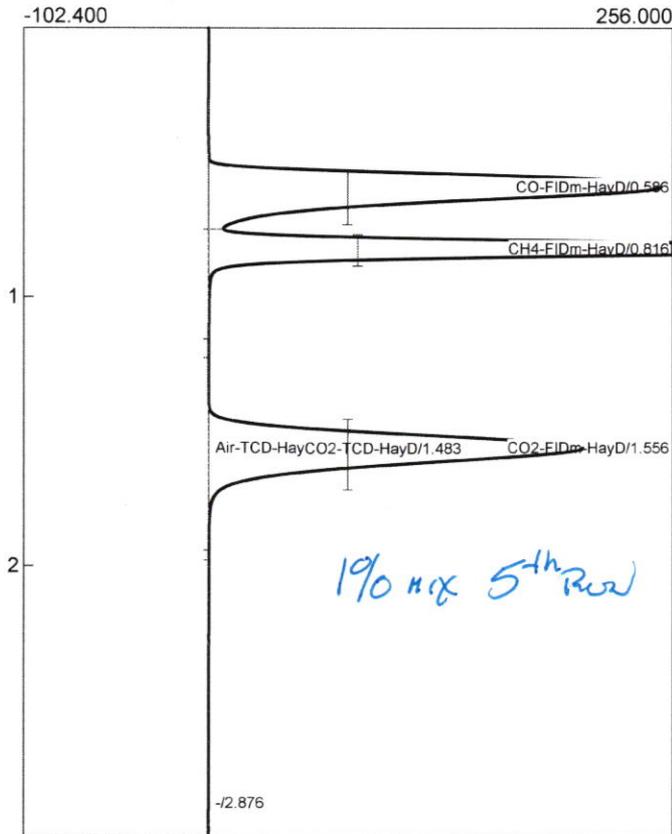
Time Event  
 0.000 ZERO  
 0.050 G ON (Valve1)  
 0.400 G OFF (Valve1)

Temperature program:

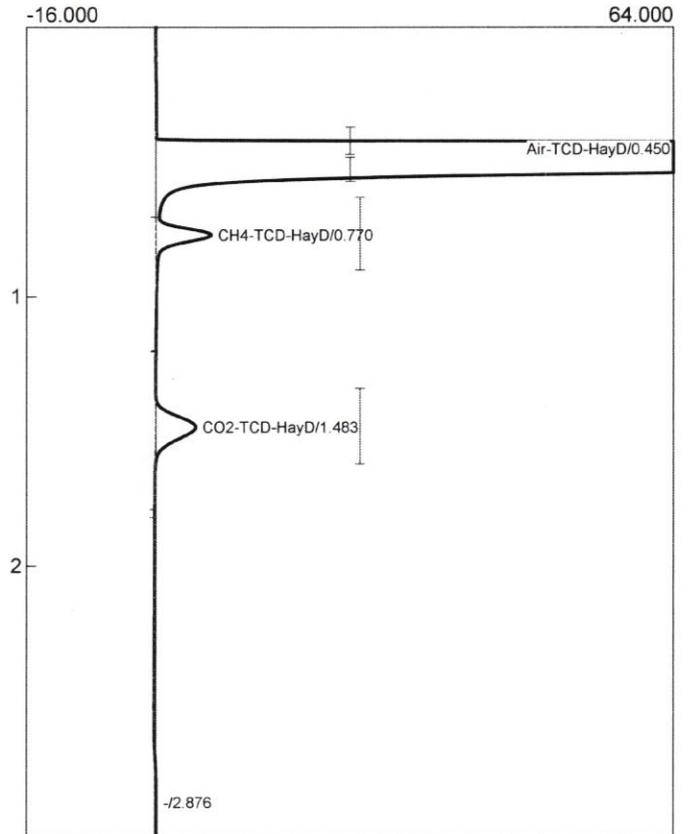
Init temp Hold Ramp Final temp

Events:

Time Event  
 0.000 ZERO  
 1.200 INTEG BASED IMMEDIATE



Component	Retention	Area	Internal	Units
CO-FIDm-HayD	0.586	1689.3014	0.9889	%
CH4-FIDm-HayD	0.816	1510.5394	0.9883	%
CO2-FIDm-HayD	1.556	1553.3976	1.0584	%
Air-TCD-HayD	0.450	3094.2696	97.8683	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.770	27.2919	1.1457	%
CO2-TCD-HayD	1.483	29.7720	1.0892	%
		7904.5719	103.1387	



Component	Retention	Area	Internal	Units
Air-TCD-HayD	0.450	3094.2696	97.8683	%
CO-TCD-HayD	0.000	0.0000	0.0000	%
CH4-TCD-HayD	0.770	27.2919	1.1457	%
CO2-TCD-HayD	1.483	29.7720	1.0892	%
		3151.3335	100.1032	