



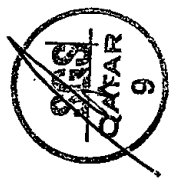
RasGas Company Limited
Laboratory

CORRELATION TEST - COMPARISON OF RESULTS

Sample	: Correlation Sample - CPC/Rich
Correlation Test Cyl. No.	: CPC-55 (Seal No: 012127)
Location	: RasGas / Laboratory
Analysis Date	: 24-Feb-2009
Analyst	: MUSLIM IBRAHIM
Analysis Method	: GC, GPA 2261

COMPONENT	Unit	Gas Chromatograph Nos.			DIFFERENCE			Correlation Limit*
		VAR. No. 10 (A)	VAR. No. 12 (B)	VAR. No. 13 (C)	(A)-(B)	(A)-(C)	(B)-(C)	
CH4	% MOL	89.10	89.12	89.12	0.02	0.02	0.00	0.30
C2H6	% MOL	5.37	5.37	5.37	0.00	0.00	0.00	0.10
C3H8	% MOL	3.78	3.77	3.78	0.01	0.00	0.01	0.05
I-C4H10	% MOL	0.83	0.82	0.82	0.01	0.01	0.00	0.03
N-C4H10	% MOL	0.89	0.88	0.88	0.01	0.01	0.00	0.03
I-C5H12	% MOL	0.00	0.00	0.00	0.00	0.00	0.00	0.03
N-C5H12	% MOL	0.00	0.00	0.00	0.00	0.00	0.00	0.03
C6H14	% MOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N2	% MOL	0.03	0.04	0.03	0.01	0.00	0.01	0.03
CO2	% MOL	0.00	0.00	0.00	0.00	0.00	0.00	0.03
O2	% MOL	0.00	0.00	0.00	0.00	0.00	0.00	0.03
TOTAL	% MOL	100.00	100.00	100.00	0.00	0.00	0.00	0.00

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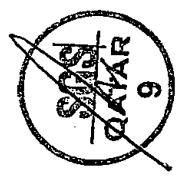
UPDATE GREEN SHADED CELLS

LOG SHEET FOR CORRELATION TEST

SAMPLE	REFERENCE STANDARD GAS
CYLINDER No.	9702070
LOCATION	RAS GAS LAB / VAR. SYS-10
GC- MODEL	VARIAN CP-3800
GC- SERIAL No.	103806
DATE CERTIFIED	4-Apr-06
SAMPLED BY	SCOTT SPECIALITY GASES
ANALYSIS DATE	24-Feb-09
ANALYST	MUSUMIBRAHIM
ANALYSIS METHOD	GC, GPA 2261

COMPONENT	CERTIFICATE MOL% A	COUNT 1		COUNT 2		DIFF RESPONSE FACTOR H=(D-G)*100/I	AVERAGE RESPONSE FACTOR I=(D+G)/2	SAMPLE PRESSURE J	PEAK AREA K	MOL% L=P/KJ	SAMPLE PRESSURE M	PEAK AREA N	MOL% O=L/NM	DIFF MOL% P=(L-O)*100/Q	TEST RESULT (MOL%)	
		SAMPLE PRESSURE B(mmHg)	RESPONSE FACTOR D=A/B/C	PEAK AREA C	RESPONSE FACTOR G=A*E/F										PEAK AREA F	RESPONSE FACTOR I=(D-G)*100/I
O2	0.0000	760	0.000000000	0.000000000	0.000000000	0	0	760	0	0.000000000	760	0	0.000000000	#DIV/0!	0.000	0.00
N2	0.7630	760	0.017379989	0.017385621	0.017385621	0.03	0.017392755	760	3335	0.026119877	760	122	0.026119877	0.00	0.026	0.03
CH4	90.0291	760	0.020017746	0.020009671	0.020009671	0.07	0.020010709	760	3375128	88.866661716	760	3374785	88.857789546	0.01	88.862	89.10
CO2	0.1520	760	0.015659482	0.015615031	0.015615031	0.28	0.015637257	760	0	0.000000000	760	0	0.000000000	#DIV/0!	0.000	0.00
C2H6	5.9900	760	0.011873080	0.011863921	0.011863921	0.08	0.0118685	760	5278	5.35021602	760	42778	5.352974752	0.00	5.353	5.37
C6H14*	0.0000	760	0.000000000	0.000000000	0.000000000	#DIV/0!	0	760	0	0.000000000	760	0	0.000000000	#DIV/0!	0.000	0.00
C3H8	2.0200	760	0.009326230	0.009324134	0.009324134	0.02	0.009325182	760	30727	3.769545238	760	30742	3.772551383	0.08	3.771	3.78
I-C4H10	0.4990	760	0.007960704	0.007941534	0.007941534	0.24	0.007951119	760	7572	0.824112568	760	7565	0.821936473	0.26	0.823	0.83
N-C4H10	0.8000	760	0.007769372	0.007755102	0.007755102	0.18	0.007782237	760	5505	0.883526433	760	8639	0.882362098	0.13	0.883	0.89
I-C5H12	0.0300	760	0.007293503	0.007178841	0.007178841	0.76	0.007206172	760	0	0.000000000	760	0	0.000000000	#DIV/0!	0.000	0.00
N-C5H12	0.0199	760	0.006650836	0.006649638	0.006649638	2.95	0.006750237	760	0	0.000000000	760	0	0.000000000	#DIV/0!	0.000	0.00
TOTAL	100.0000		4108709	4111620	4111544		99.72298743		4191544			4191127	99.71373313		99.718	100.00
HHV(BTU/USCF)																

Chi



Data File: c:\sys_10 results\cpc correlation 2009\rich lng std003.run

Sample ID: Rich LNG Std

Run Mode:

Analysis



Operator (Inj): MUSLIM IBRAHIM

Peak Measurement:

Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

Peak Area

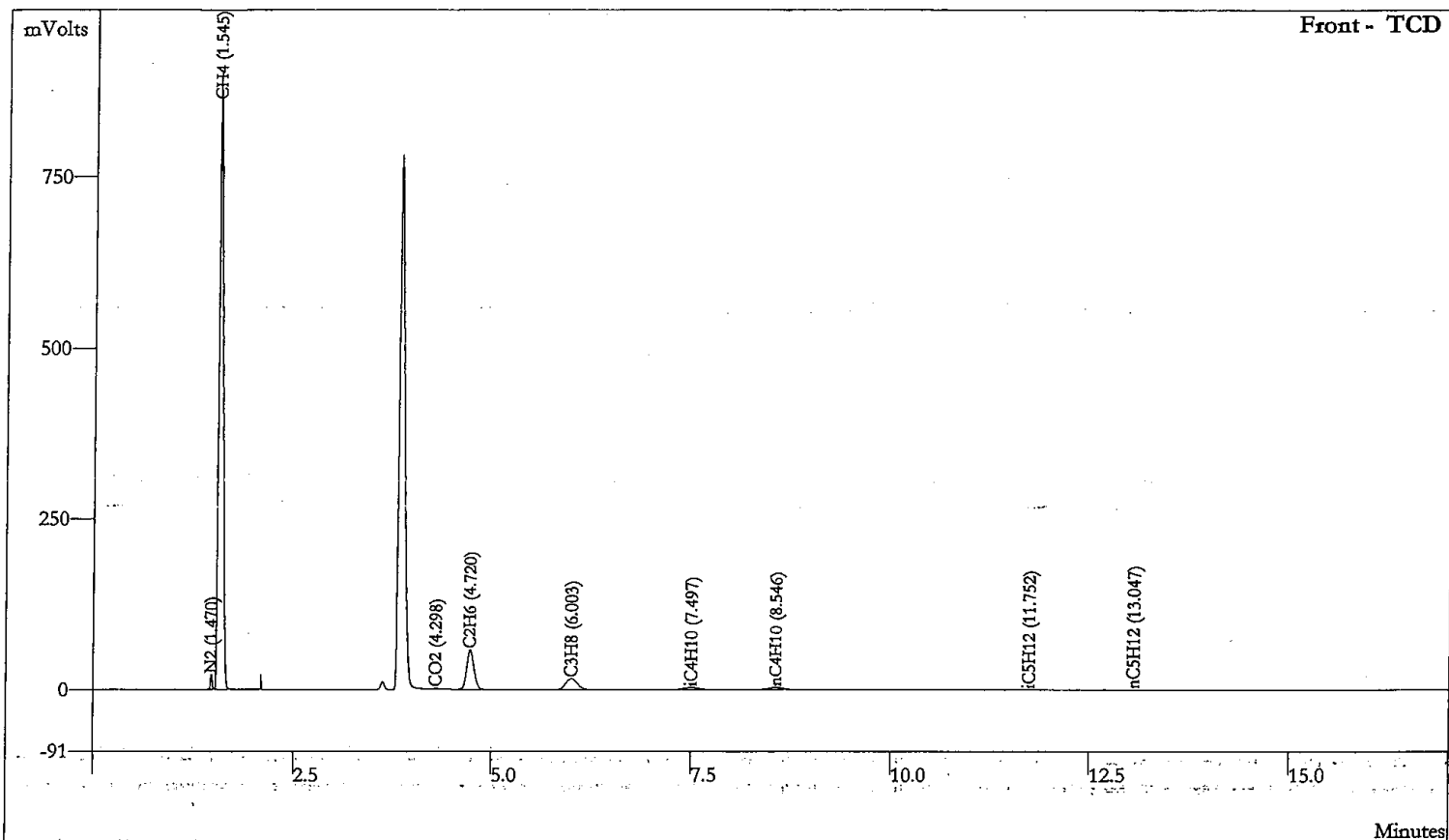
External Std.

Injection Date: 02/24/2009 01:11:40 PM

Injection Method: c:\sys_10 methods\rich lng_sys10.mth

Instrument (Inj): SYS_10

Calculation Method: c:\sys_10 methods\rich lng_sys10.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.470	33365	0.7630
2	CH4	1.545	3417959	90.0261
3	CO2	4.298	7377	0.1520
4	C2H6	4.720	383422	5.9900
5	C3H8	6.003	164611	2.0200
6	iC4H10	7.497	47639	0.4990
7	nC4H10	8.546	48910	0.5000
8	iC5H12	11.752	3152	0.0300
9	nC5H12	13.047	2274	0.0199
	Totals		4108709	100.0000

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Data File: c:\sys_10 results\cpc correlation 2009\rich lng std004.run

Sample ID: Rich LNG Std

Run Mode:

Analysis



Operator (Inj): MUSLIM IBRAHIM

Peak Measurement:

Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

Peak Area

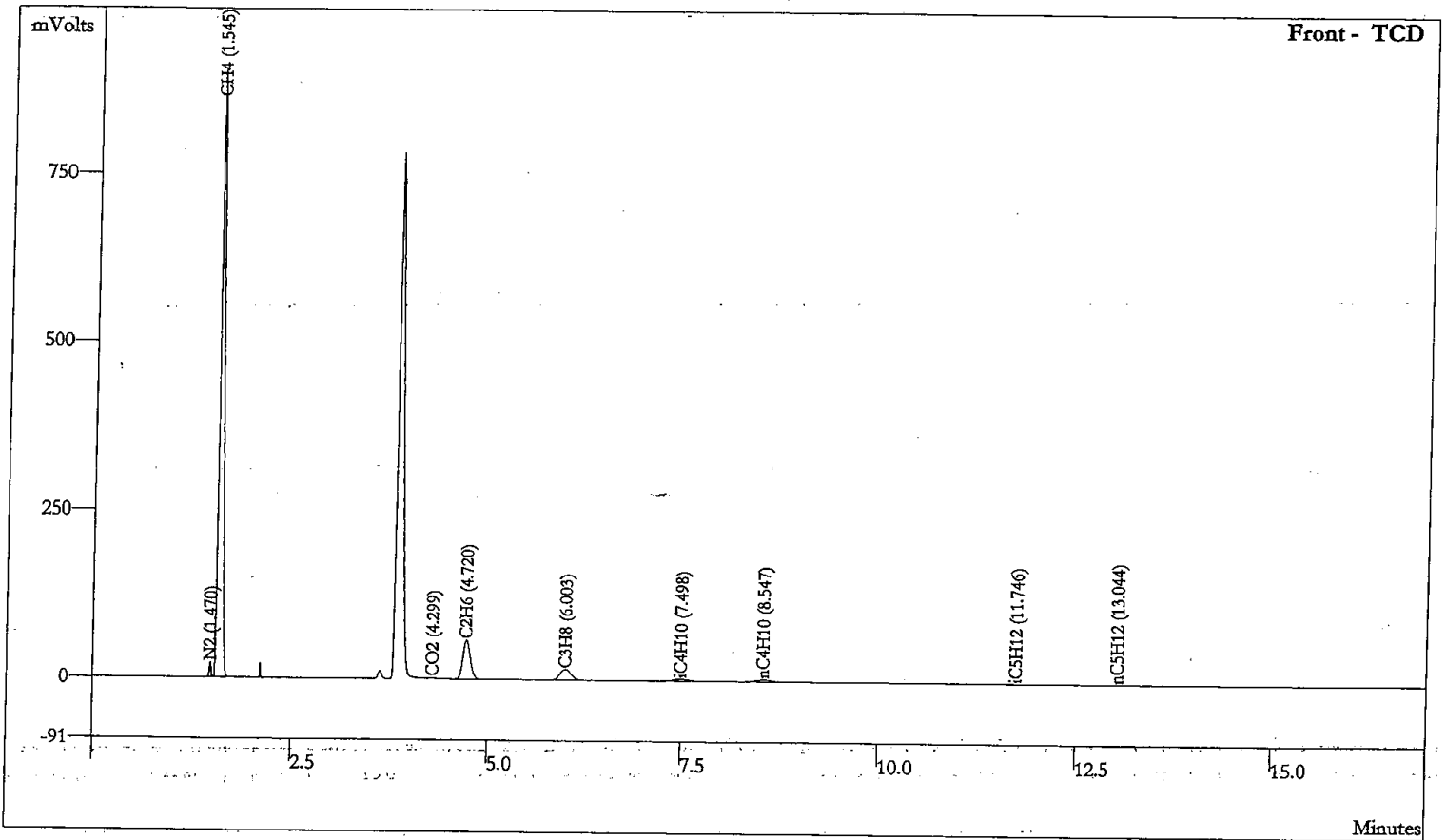
External Std.

Injection Date: 02/24/2009 01:31:04 PM

Injection Method: c:\sys_10 methods\rich lng._sys10.mth

Instrument (Inj): SYS_10

Calculation Method: c:\sys_10 methods\rich lng._sys10.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.470	33354	0.7628
2	CH4	1.545	3420364	90.0894
3	CO2	4.299	7398	0.1524
4	C2H6	4.720	383718	5.9946
5	C3H8	6.003	164648	2.0205
6	iC4H10	7.498	47754	0.5002
7	nC4H10	8.547	49000	0.5009
8	iC5H12	11.746	3176	0.0302
9	nC5H12	13.044	2208	0.0193
	Totals		4111620	100.0703

Cli



Data File: c:\sys_10 results\cpc correlation 2009\corr test sample004.run

Sample ID: Corr Test Sample

Run Mode:

Analysis



Operator (Inj): MUSLIM IBRAHIM

Peak Measurement:

Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

Peak Area

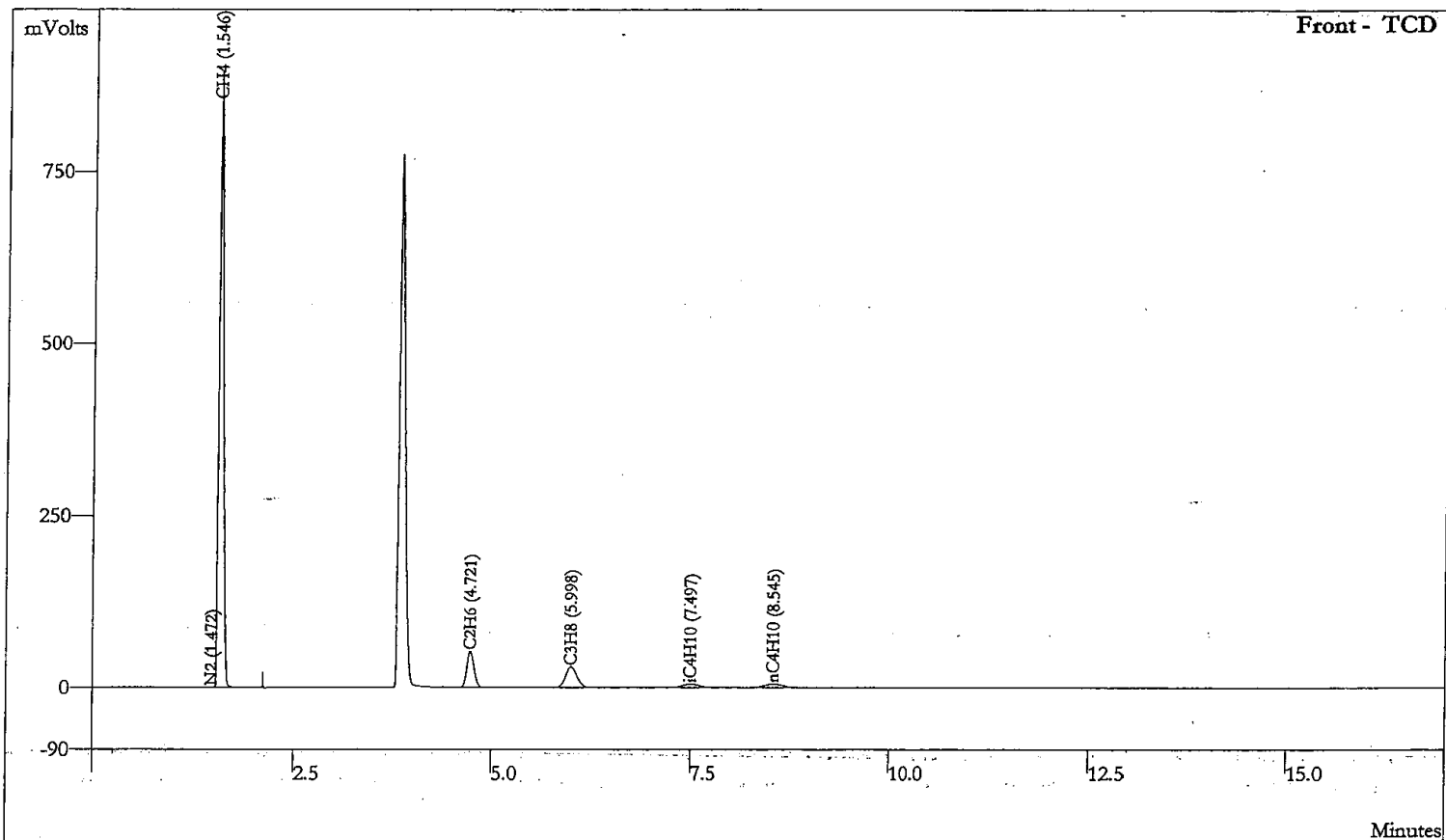
External Std.

Injection Date: 02/24/2009 03:44:11 PM

Injection Method: c:\sys_10 methods\rich lng._sys10.mth

Instrument (Inj): SYS_10

Calculation Method: c:\sys_10 methods\rich lng._sys10.mth

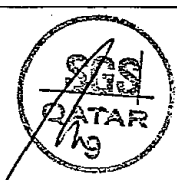


Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.472	1142	0.0261
2	CH4	1.546	3375126	88.8979
3	C2H6	4.721	342781	5.3551
4	C3H8	5.998	307217	3.7700
5	iC4H10	7.497	78772	0.8251
6	nC4H10	8.545	86506	0.8843
	Totals		4191544	99.7585

Status Codes:

C - Result out of calibration range

Chri



Data File: c:\sys_10 results\cpc correlation 2009\corr test sample005.run

Sample ID: Corr Test Sample

Run Mode:

Analysis



Operator (Inj): MUSLIM IBRAHIM

Peak Measurement:

Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

Peak Area

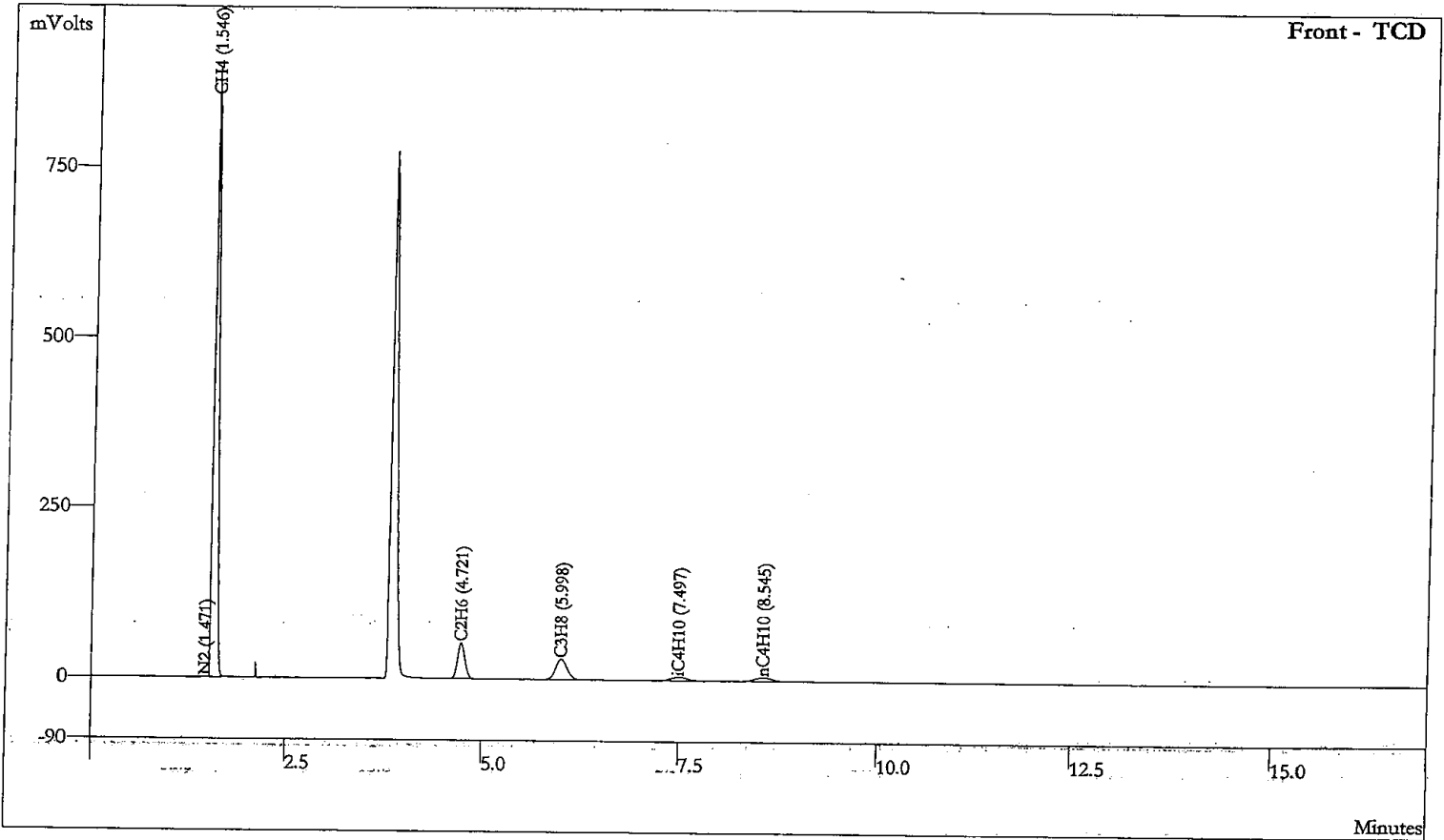
External Std.

Injection Date: 02/24/2009 04:03:33 PM

Injection Method: c:\sys_10 methods\rich lng._sys10.mth

Instrument (Inj): SYS_10

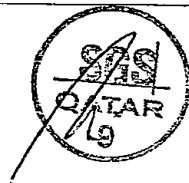
Calculation Method: c:\sys_10 methods\rich lng._sys10.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.471	1142	0.0261
2	CH4	1.546	3374789	88.8890
3	C2H6	4.721	342778	5.3550
4	C3H8	5.998	307462	3.7730
5	iC4H10	7.497	78564	0.8229
6	nC4H10	8.545	86392	0.8832
	Totals		4191127	99.7492

Status Codes:

C - Result out of calibration range




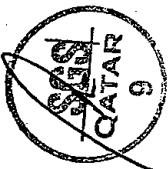
LOG SHEET FOR CORRELATION TEST

SAMPLE	REFERENCE STANDARD GAS	Correlation Sample CPC/Rich
CYLINDER No.	9702070	CPC-551(S&I#6201212)
LOCATION	RAS GAS LAB / VAR. SYS-12	RAS GAS LAB / VAR. SYS - 12
GC- MODEL	VARIAN CP-3800	VARIAN CP-3800
GC- SERIAL No.	104448	104448
DATE CERTIFIED	4-Apr-06	24-FEB-09
SAMPLED BY	SCOTT SPECIALITY GASES	CPC
ANALYSIS DATE	24-FEB-09	24-FEB-09
ANALYST	MUSMIBRAHIM	MUSMIBRAHIM
ANALYSIS METHOD	GC, GPA 2261	GC, GPA 2261

COMPONENT	CERTIFICATE MOL% A	COUNT 1			COUNT 2			DIFF RESPONSE FACTOR H=(D-G)*100/I	AVERAGE RESPONSE FACTOR I=(D+G)/2	COUNT 1			COUNT 2			DIFF MOL% P=(L-O)*100/Q	TEST RESULT UNORMALIZED Q=(L+O)/2	TEST RESULT REPORTED VALUE
		SAMPLE PRESSURE B(mmHg)	PEAK AREA C	RESPONSE FACTOR D=A*B/C	SAMPLE PRESSURE E(mmHg)	PEAK AREA F	RESPONSE FACTOR G=A*E/F			SAMPLE PRESSURE J	PEAK AREA K	MOL% L=P*K/J	SAMPLE PRESSURE M	PEAK AREA N	MOL% O=P*N/M			
O2	0.0000	760	0.000000000	0.000000000	760	0.000000000	0.000000000	0.000000000	0.000000000	760	0.000000000	0.000000000	0.000000000	760	0.000000000	0.000	0.00	
N2	0.7830	760	0.018255887	0.018202593	760	31857	0.018229240	0.29	0.018229240	760	1889	0.035618976	0.035666947	760	1887	0.036	0.04	
CH4	90.0281	760	0.020120688	0.020114844	760	3401460	0.020117766	0.03	0.020117766	760	3364373	89.057510889	89.053249099	760	336421	89.055	89.12	
CO2	0.1820	760	0.017124222	0.017196594	760	6718	0.017159908	0.42	0.017159908	760	0	0.000000000	0.000000000	760	0	0.000	0.00	
C2H6	5.9900	760	0.014018081	0.014002301	760	325118	0.014010191	0.11	0.014010191	760	291283	5.369313565	5.362658725	760	290604	5.366	5.37	
C6H14*	0.0000	760	0.000000000	0.000000000	760	0	0.000000000	0.01	0.000000000	760	0	0.000000000	0.000000000	760	0	0.000	0.00	
C3H8	2.0200	760	0.011005728	0.011004939	760	33950	0.011005334	0.01	0.011005334	760	250582	3.770224527	3.768573727	760	250248	3.769	3.77	
I-C4H10	0.4990	760	0.009387593	0.009358174	760	40525	0.009372884	0.31	0.009372884	760	169733	0.823247508	0.824517780	760	168856	0.824	0.82	
N-C4H10	0.5000	760	0.009120365	0.009149131	760	41534	0.009134748	0.31	0.009134748	760	173505	0.883848949	0.881130563	760	173399	0.882	0.88	
I-C5H12	0.0300	760	0.008207343	0.008290909	760	2750	0.008249126	1.01	0.008249126	760	0	0.000000000	0.000000000	760	0	0.000	0.00	
N-C5H12	0.0199	760	0.009255814	0.009143894	760	1654	0.009199854	1.22	0.009199854	760	0	0.000000000	0.000000000	760	0	0.000	0.00	
TOTAL	100.0000					399117					4057775	99.93976241	99.92579684		4057018	99.932	100.00	

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Data File: c:\star\sys_12 data\cpc correlation\feb-2009\rich lng std004.run

Sample ID: Rich LNG Std

Operator (Inj): MUSLIM IBR.

Injection Notes: 760 mmHg (CPC Correlation)

Injection Date: 02/24/2009 03:10:15 PM

Instrument (Inj): SYS_12

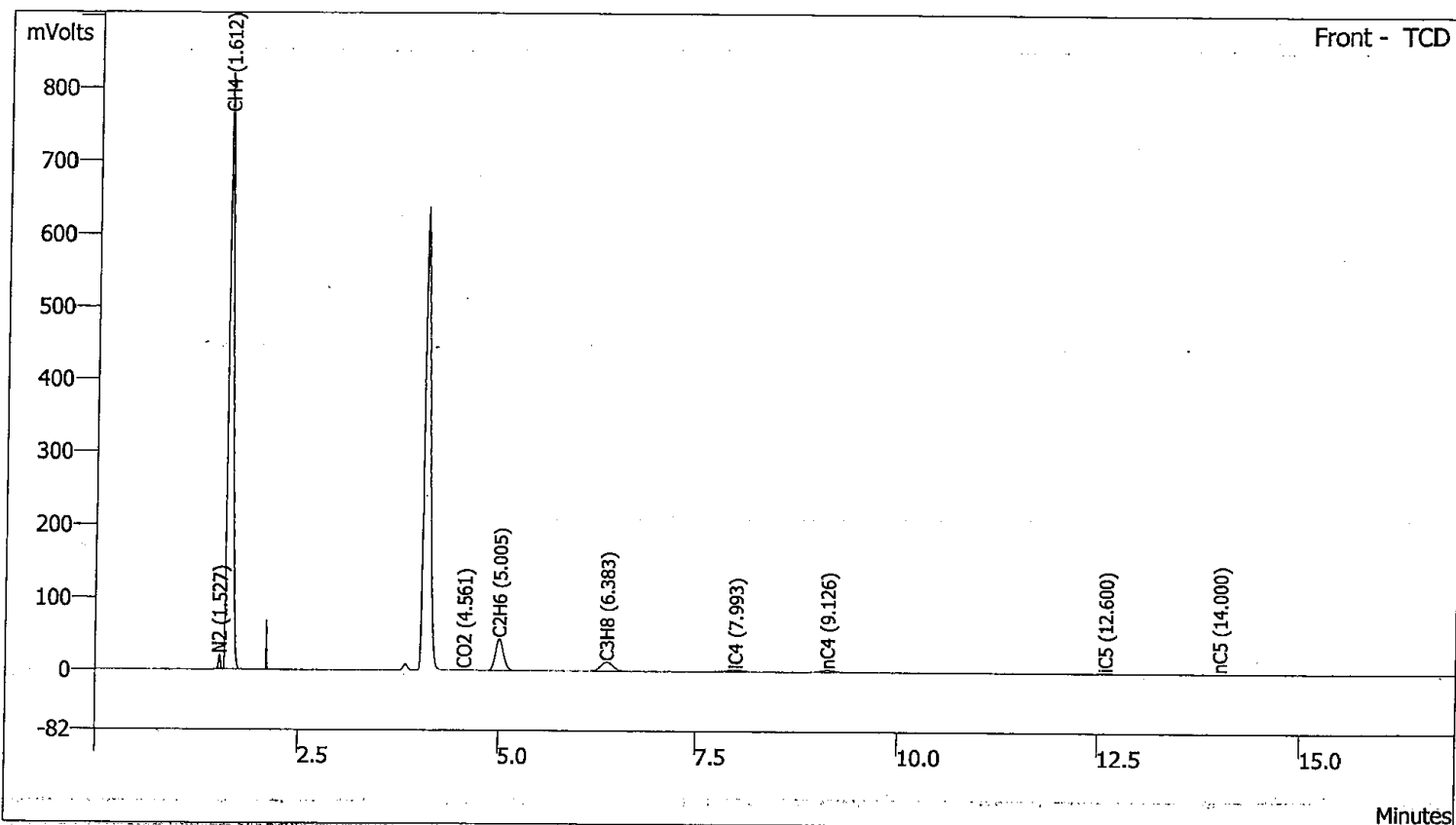
Run Mode: Analysis

Peak Measurement: Peak Area

Peak Area External Std.

Injection Method: c:\star\sys_12\rich lng_sys 12.mth

Calculation Method: c:\star\sys_12\rich lng_sys 12.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.527	31764	0.7630
2	CH4	1.612	3400472	90.0261
3	CO2	4.561	6746	0.1520
4	C2H6	5.005	324752	5.9900
5	C3H8	6.383	139491	2.0200
6	iC4	7.993	40398	0.4990
7	nC4	9.126	41665	0.5000
8	iC5	12.600	2778	0.0300
9	nC5	14.000	1634	0.0199
	Totals		3989700	100.0000

Chi



Data File: c:\star\sys_12 data\cpc correlation\feb-2009\rich lng std005.run



Sample ID: Rich LNG Std

Run Mode: Analysis

Operator (Inj): MUSLIM IBR.

Peak Measurement: Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

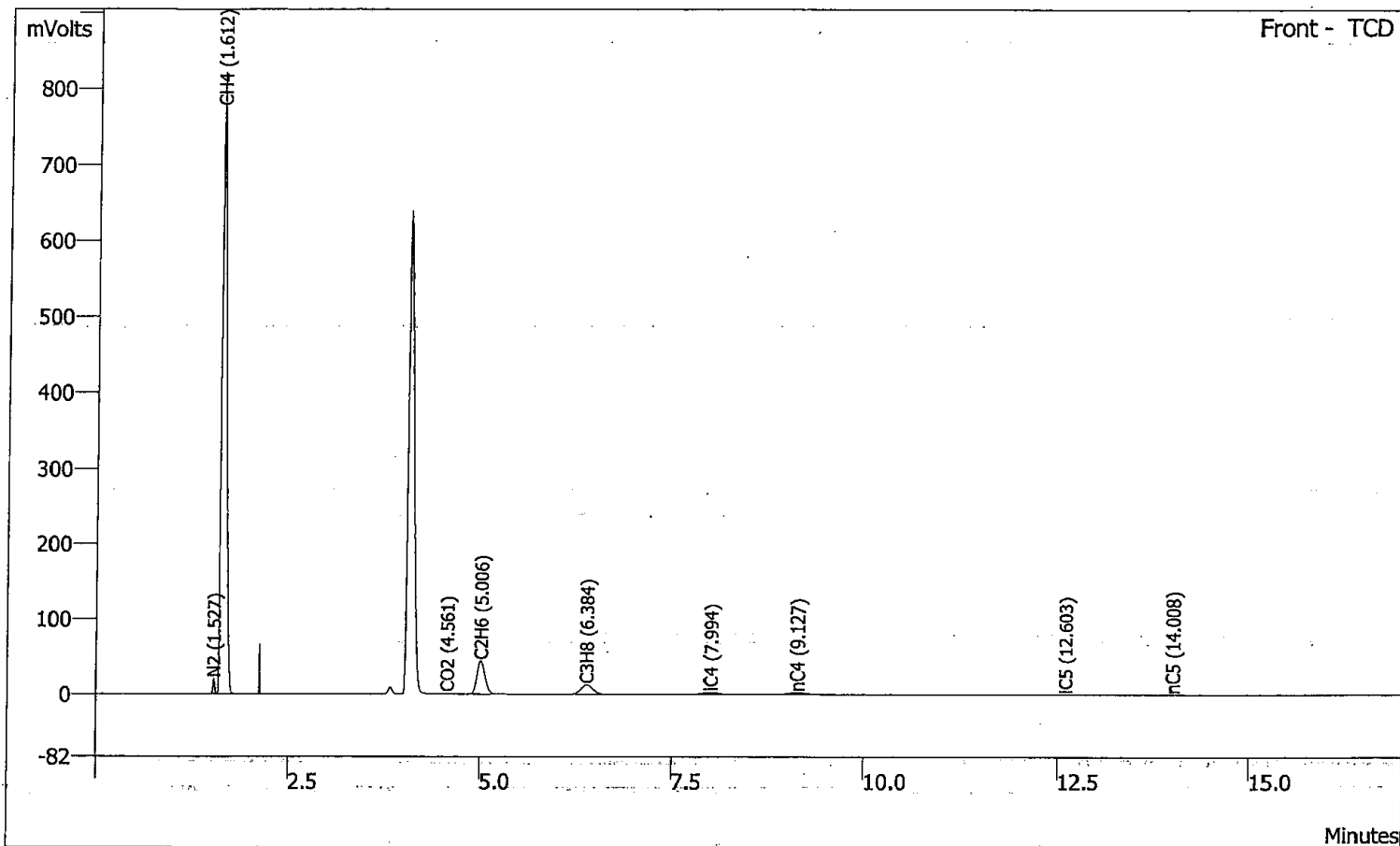
Peak Area External Std.

Injection Date: 02/24/2009 03:28:06 PM

Injection Method: c:\star\sys_12\rich lng_sys 12.mth

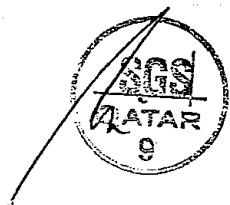
Instrument (Inj): SYS_12

Calculation Method: c:\star\sys_12\rich lng_sys 12.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.527	31857	0.7652
2	CH4	1.612	3401460	90.0522
3	CO2	4.561	6718	0.1514
4	C2H6	5.006	325118	5.9968
5	C3H8	6.384	139501	2.0202
6	iC4	7.994	40525	0.5006
7	nC4	9.127	41534	0.4984
8	iC5	12.603	2750	0.0297
9	nC5	14.008	1654	0.0201
	Totals		3991117	100.0346

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Data File: c:\star\sys_12 data\cpc correlation\feb-2009\corr test sample005.run



Sample ID: Corr Test sample

Run Mode: Analysis

Operator (Inj): MUSLIM IBR.

Peak Measurement: Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

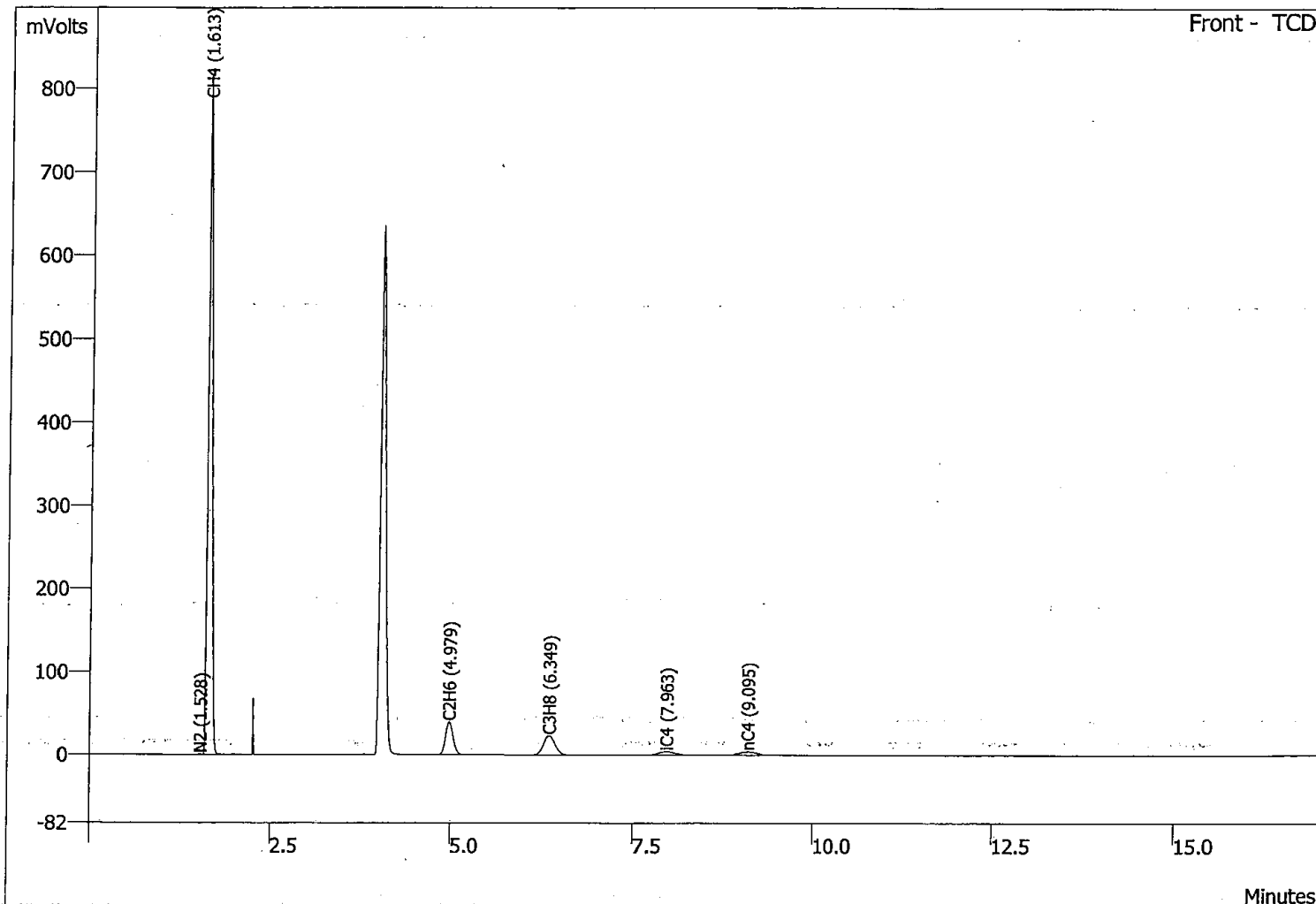
Peak Area External Std.

Injection Date: 02/24/2009 11:49:22 AM

Injection Method: c:\star\sys_12\feb 09_sys 12.mth

Instrument (Inj): SYS_12

Calculation Method: c:\star\sys_12\rich lng_sys 12.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.528	1485	0.0357
2	CH4	1.613	3364375	89.0704
3	C2H6	4.979	291265	5.3723
4	C3H8	6.349	260362	3.7704
5	iC4	7.963	66753	0.8245
6	nC4	9.095	73535	0.8824
	Totals		4057775	99.9557

Chir



Data File: c:\star\sys_12 data\cpc correlation\feb-2009\corr test sample006.run

Sample ID: Corr Test sample

Run Mode: Analysis



Operator (Inj): MUSLIM IBR.

Peak Measurement: Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

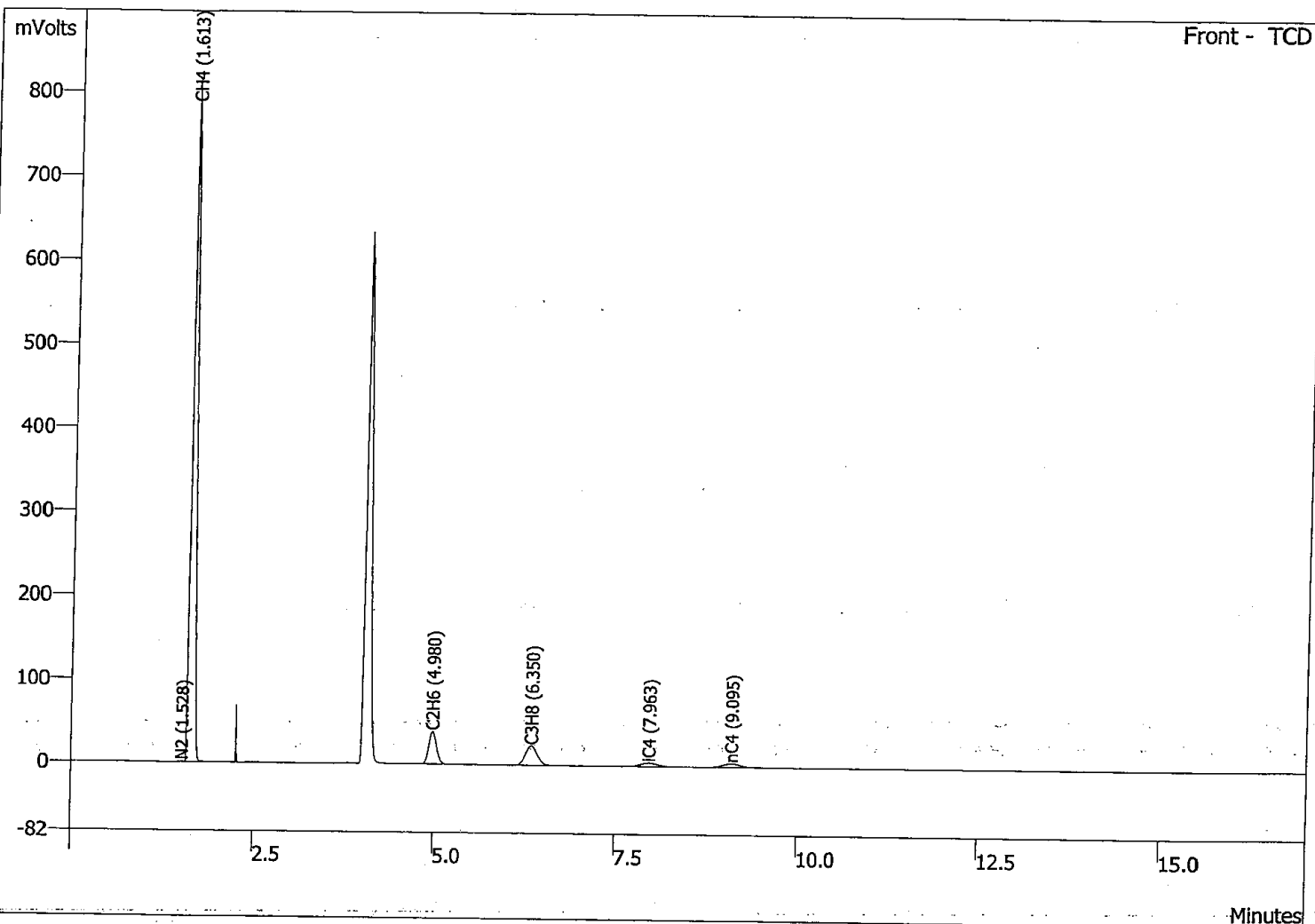
Peak Area External Std.

Injection Date: 02/24/2009 12:09:45 PM

Injection Method: c:\star\sys_12\feb 09_sys 12.mth

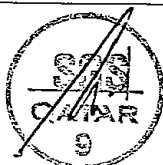
Instrument (Inj): SYS_12

Calculation Method: c:\star\sys_12\rich lng_sys 12.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.528	1487	0.0357
2	CH4	1.613	3364214	89.0662
3	C2H6	4.980	290904	5.3657
4	C3H8	6.350	260248	3.7687
5	iC4	7.963	66856	0.8258
6	nC4	9.095	73309	0.8797
	Totals		4057018	99.9418

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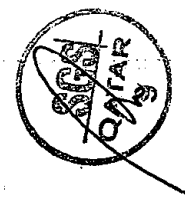


UPDATE GREEN SHADED CELLS

LOG SHEET FOR CORRELATION TEST

SAMPLE	REFERENCE STANDARD GAS	
CYLINDER No.	9702070	
LOCATION	RAS GAS LAB / VAR. SYS-13	
GC- MODEL	VARIAN CP-3800	
GC- SERIAL No.	104447	
DATE CERTIFIED	4-Apr-06	
SAMPLED BY	SCOTT SPECIALITY GASES	
ANALYSIS DATE	24-FEB-06	
ANALYST	MUSEMIBERAHIM	
ANALYSIS METHOD	GC, GPA 2261	

COMPONENT	CERTIFICATE MOL% A	COUNT 1			COUNT 2			DIFF RESPONSE FACTOR #DIV/OI	AVERAGE RESPONSE FACTOR I=(D+G)/2	COUNT 1			COUNT 2			DIFF MOL% P=(L-O)*100/Q	MOL% Q=I*NM	TEST RESULT UNNORMALIZED Q=(L+O)/2	TEST RESULT REPORTED VALUE
		SAMPLE PRESSURE B(mmHg)	PEAK AREA C	RESPONSE FACTOR D=A*B/C	SAMPLE PRESSURE E(mmHg)	PEAK AREA F	RESPONSE FACTOR G=A*E/F			SAMPLE PRESSURE J	PEAK AREA K	MOL% L=I*K/J	SAMPLE PRESSURE M	PEAK AREA N	MOL% O=I*NM				
O2	0.0000	760	0.000000000	0.000000000	760	0.000000000	0.000000000	0.000000000	0.000000000	760	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.00	0.00	
N2	0.7680	760	0.015378577	0.015378577	760	0.015378577	0.015378577	0.015378577	0.015378577	760	0.029253114	0.029253114	0.029253114	0.029253114	0.029253114	0.029253114	0.03	0.03	
CH4	90.0261	760	0.017935221	0.017935221	760	0.017935221	0.017935221	0.017935221	0.017935221	760	89.060987402	89.060987402	89.060987402	89.060987402	89.060987402	89.060987402	89.12	89.12	
CO2	0.1520	760	0.017209402	0.017209402	760	0.017209402	0.017209402	0.017209402	0.017209402	760	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.00	0.00	
C2H6	5.9900	760	0.014020240	0.014020240	760	0.014020240	0.014020240	0.014020240	0.014020240	760	5.369388130	5.369388130	5.369388130	5.369388130	5.369388130	5.369388130	5.37	5.37	
C8H14*	0.0000	760	0.000000000	0.000000000	760	0.000000000	0.000000000	0.000000000	0.000000000	760	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.00	0.00	
C3H8	2.0200	760	0.011014493	0.011014493	760	0.011014493	0.011014493	0.011014493	0.011014493	760	3.772789565	3.772789565	3.772789565	3.772789565	3.772789565	3.772789565	3.78	3.78	
I-C4H10	0.4990	760	0.00993174	0.00993174	760	0.00993174	0.00993174	0.00993174	0.00993174	760	0.822906632	0.822906632	0.822906632	0.822906632	0.822906632	0.822906632	0.82	0.82	
N-C4H10	0.8000	760	0.009139229	0.009139229	760	0.009139229	0.009139229	0.009139229	0.009139229	760	0.883416974	0.883416974	0.883416974	0.883416974	0.883416974	0.883416974	0.88	0.88	
I-C5H12	0.0300	760	0.008722285	0.008722285	760	0.008722285	0.008722285	0.008722285	0.008722285	760	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.00	0.00	
N-C5H12	0.0199	760	0.008701956	0.008701956	760	0.008701956	0.008701956	0.008701956	0.008701956	760	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.00	0.00	
TOTAL	100.0000		4409803			4409298					4466528				4464777		99.919	100.00	



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Data File: c:\star\sys_13 data\cpc correlation\feb-2009\rich lng std003.run



Sample ID: Rich LNG Std

Run Mode: Analysis

Operator (Inj): MUSLIM IBR.

Peak Measurement: Peak Area

Injection Notes: 760 mmHg (CPC Corelation)

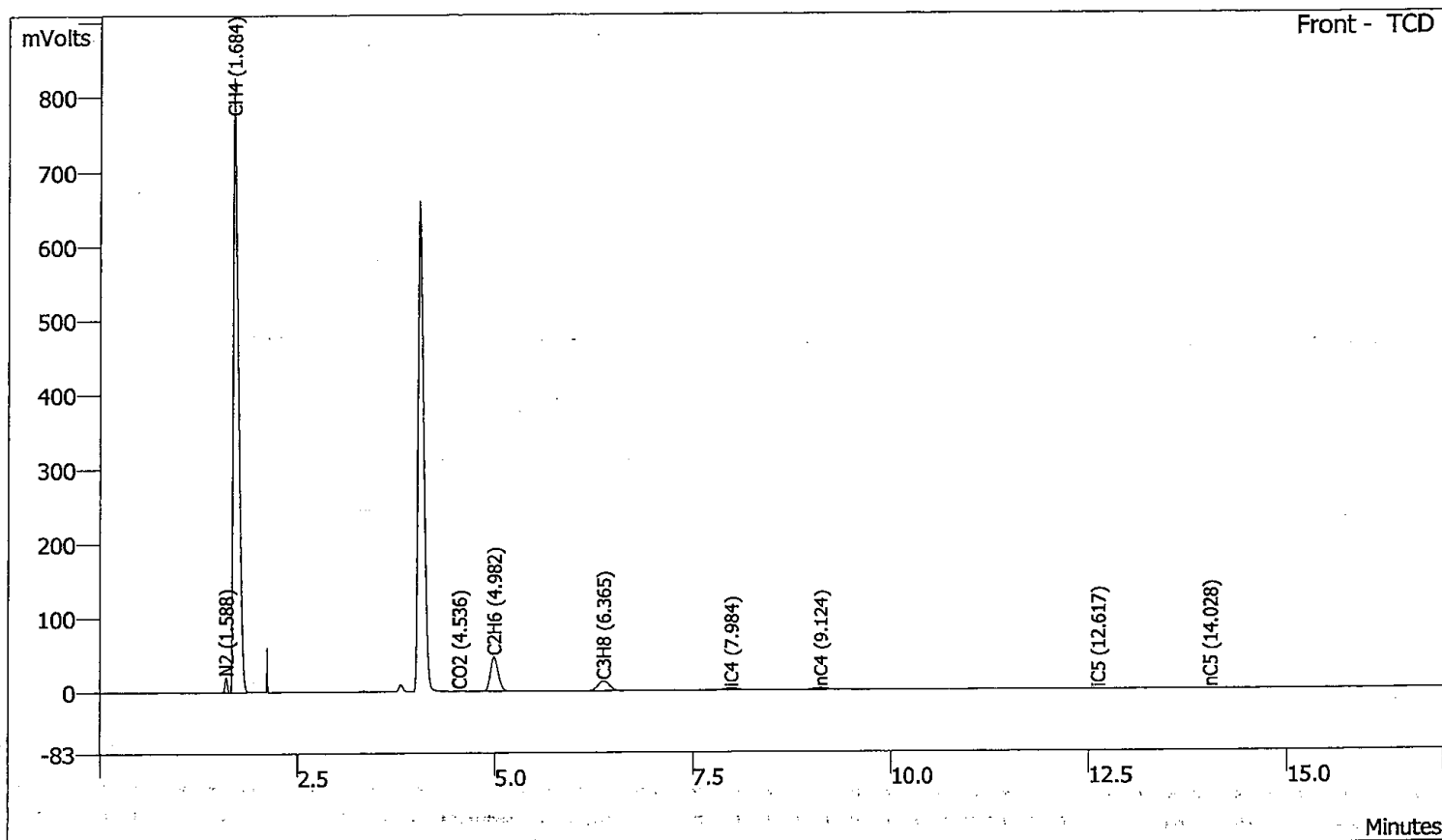
Peak Area External Std.

Injection Date: 02/24/2009 02:55:48 PM

Injection Method: c:\star\sys_13\rich lng_sys 13.mth

Instrument (Inj): SYS_13

Calculation Method: c:\star\sys_13\rich lng_sys 13.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.588	37672	0.7630
2	CH4	1.684	3814831	90.0261
3	CO2	4.536	6713	0.1520
4	C2H6	4.982	324702	5.9900
5	C3H8	6.365	139380	2.0200
6	iC4	7.984	40374	0.4990
7	nC4	9.124	41579	0.5000
8	iC5	12.617	2614	0.0300
9	nC5	14.028	1738	0.0188
	Totals		4409603	99.9989

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Data File: c:\star\sys_13 data\cpc correlation\feb-2009\rich lng std004.run



Sample ID: Rich LNG Std

Run Mode: Analysis

Operator (Inj): MUSLIM IBR.

Peak Measurement: Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

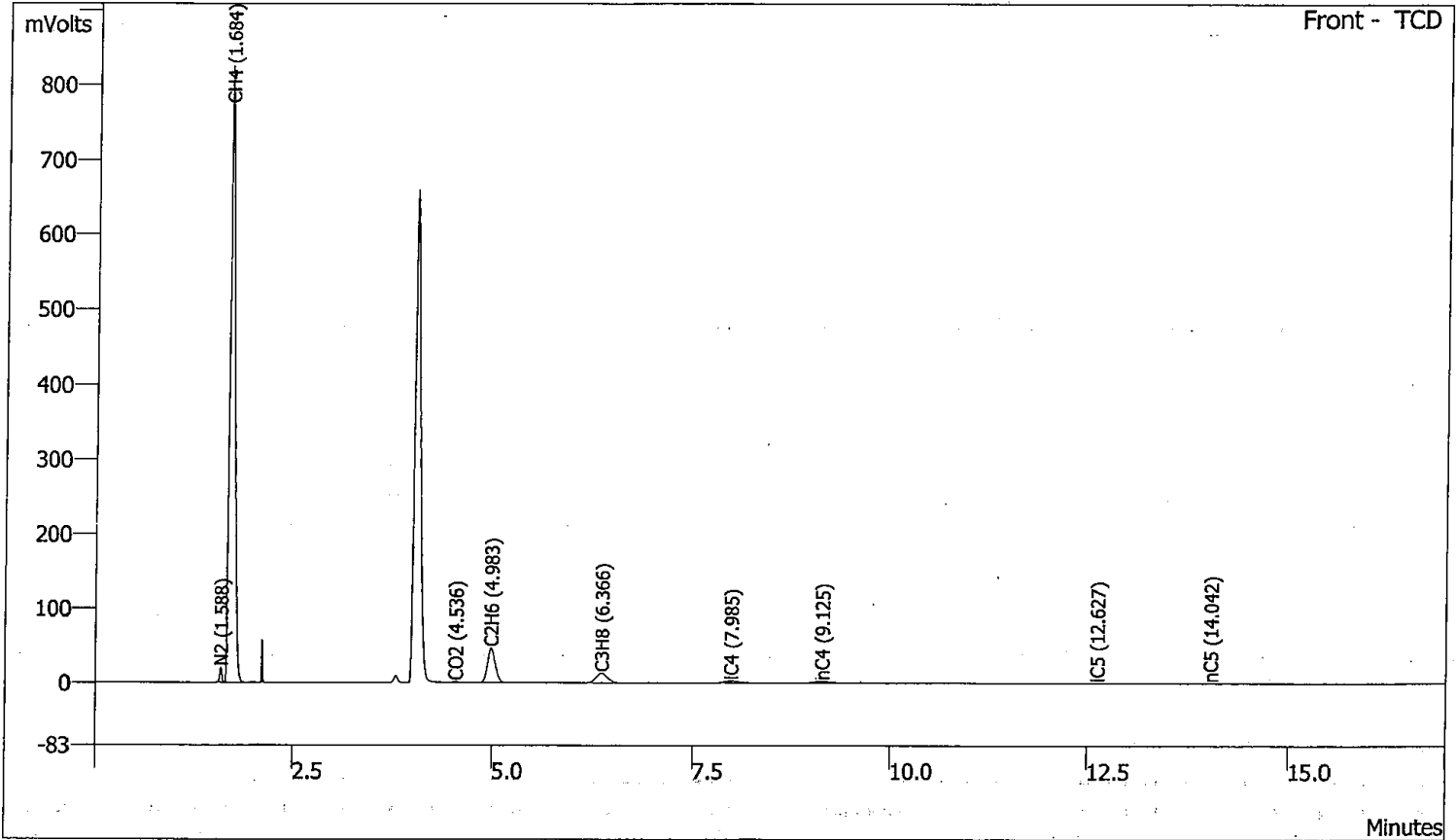
Peak Area External Std.

Injection Date: 02/24/2009 03:13:42 PM

Injection Method: c:\star\sys_13\rich lng_sys 13.mth

Instrument (Inj): SYS_13

Calculation Method: c:\star\sys_13\rich lng_sys 13.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.588	37707	0.7637
2	CH4	1.684	3815068	90.0317
3	CO2	4.536	6720	0.1522
4	C2H6	4.983	324407	5.9846
5	C3H8	6.366	139235	2.0179
6	iC4	7.985	40511	0.5007
7	nC4	9.125	41308	0.4967
8	iC5	12.627	2620	0.0301
9	nC5	14.042	1722	0.0186
	Totals		4409298	99.9962

cli



Data File: c:\star\sys_13 data\cpc correlation\feb-2009\corr test sample005.run



Sample ID: Corr Test sample

Run Mode: Analysis

Operator (Inj): MUSLIM IBR.

Peak Measurement: Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

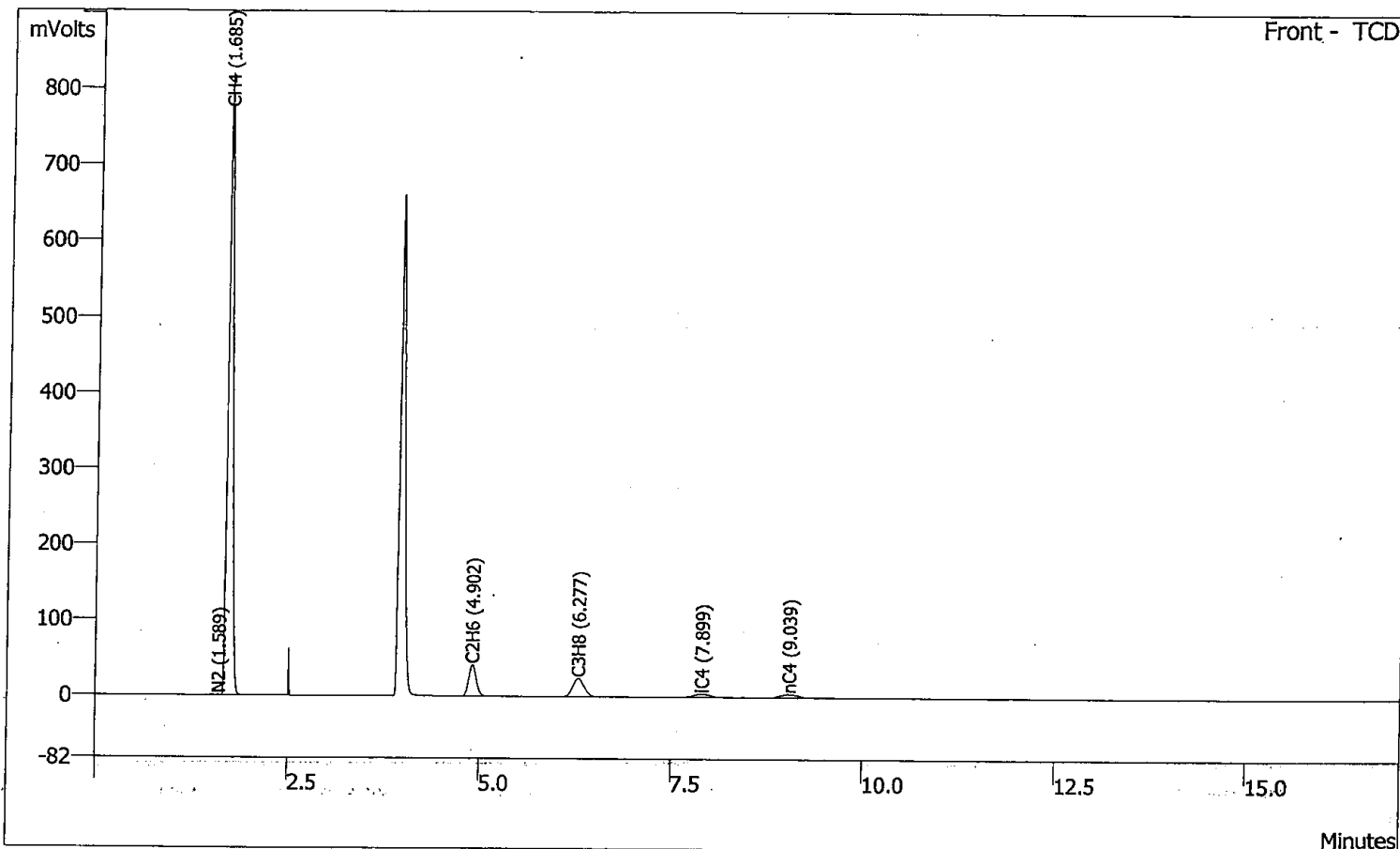
Peak Area External Std.

Injection Date: 02/24/2009 11:58:04 AM

Injection Method: c:\star\sys_13\feb 09_sys 13.mth

Instrument (Inj): SYS_13

Calculation Method: c:\star\sys_13\rich lng_sys 13.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.589	1445	0.0293
2	CH4	1.685	3774051	89.0638
3	C2H6	4.902	290928	5.3669
4	C3H8	6.277	260187	3.7708
5	iC4	7.899	66694	0.8243
6	nC4	9.039	73223	0.8805
	Totals		4466528	99.9356

cli



Data File: c:\star\sys_13 data\cpc correlation\feb-2009\corr test sample006.run

Sample ID: Corr Test sample

Run Mode: Analysis



Operator (Inj): MUSLIM IBR.

Peak Measurement: Peak Area

Injection Notes: 760 mmHg (CPC Correlation)

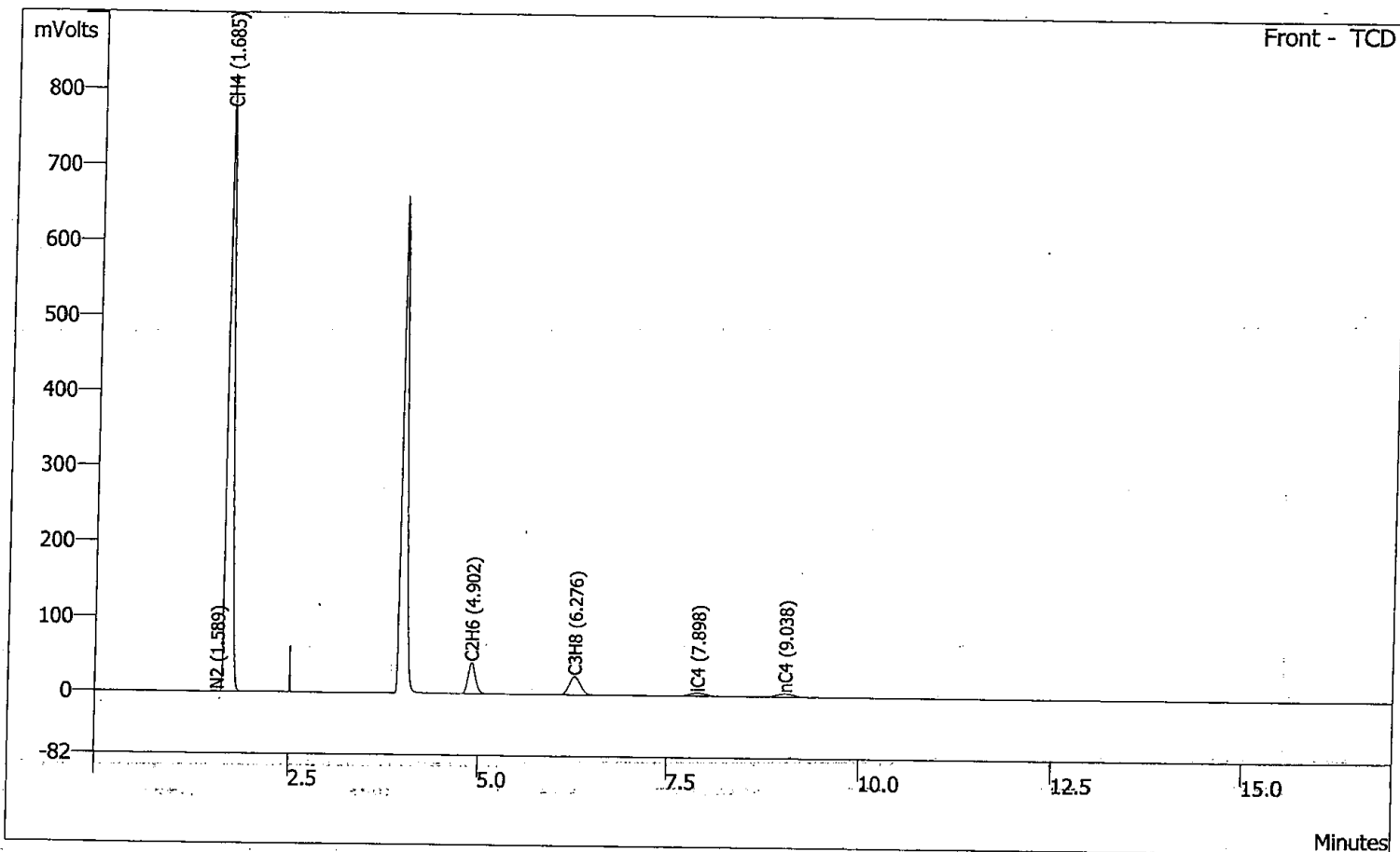
Peak Area External Std.

Injection Date: 02/24/2009 12:18:29 PM

Injection Method: c:\star\sys_13\feb 09_sys 13.mth

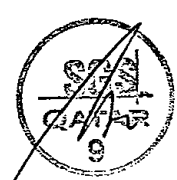
Instrument (Inj): SYS_13

Calculation Method: c:\star\sys_13\rich lng_sys 13.mth



Peak No	Peak Name	Ret. Time (min)	Area (counts)	Result (mole %)
1	N2	1.589	1450	0.0294
2	CH4	1.685	3772599	89.0295
3	C2H6	4.902	290646	5.3618
4	C3H8	6.276	260053	3.7689
5	iC4	7.898	66854	0.8263
6	nC4	9.038	73175	0.8799
	Totals		4464777	99.8958

cli





Scott Specialty Gases B.V.

TAKKEBIJSTERS 48.THE NETHERLANDS

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CERTIFICATE OF ACCURACY: Custom Class Calibration Standard

Product Information

Project No.: 20-58363-009
 Item No.: 2002711303 Z10
 P.O. No.: RL90-4500034960

Cylinder Number: 9702070
 Cylinder Size: 10
 Certification Date: 04Apr2006
 Expiration Date: 03Apr2011

Customer

RAS LAFFAN LNG COMPANY LIMITED
 XK32 RASGAS MAIN WAREHSE
 RAS LAFFAN IND. CITY,
 STATE OF QATAR

CERTIFIED CONCENTRATION

Component Name	Concentration (Moles)	Accuracy (+/-%)
N-BUTANE	0,500 %	1
CARBON DIOXIDE	0,152 %	1
ETHANE	5,99 %	1
ISOBUTANE	0,499 %	1
ISOPENTANE	300, PPM	1
NITROGEN	0,763 %	1
N-PENTANE	199, PPM	1
PROPANE	2,02 %	1
METHANE	90.0261 BALANCE	

TRACEABILITY

Description	Traceability Type	Traceable To
BLEND PROCESS TRACEABILITY	WEIGHT	NMI
ANALYTICAL TRACEABILITY	GAS STANDARDS	SRS



APPROVED BY:

[Signature]

R.M. VAN DER LINDEN

DATE:

04-04-2011

SUPERVISOR:

[Signature]

Drs. J.M. BÜRGER