

Appendix D to AHRI Standard 700

2012 Appendix D for Gas Chromatograms for **AHRI Standard 700-2014 – Informative**



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Note:

This Appendix supersedes the 2008 version of Appendix D.

FOREWORD

The intent of this normative appendix is to provide figures for the gas chromatograms used with the 2008 Appendix C, *Analytical Procedures for AHRI Standard 700 – Normative*.

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LIST OF FIGURES

Figure 1.	Gas Chromatogram of Non-Condensable Gas.....	2
Figure 2.	Gas Chromatogram of R-11.....	3
Figure 3.	Gas Chromatogram of R-12.....	4
Figure 4.	Gas Chromatogram of R-13.....	5
Figure 5.	Gas Chromatogram of R-22 (Packed).....	6
Figure 6.	Gas Chromatogram of R-22 (Capillary)	7
Figure 7.	Gas Chromatogram of R-23.....	8
Figure 8.	Gas Chromatogram of R-32.....	9
Figure 9.	Gas Chromatogram of R-113.....	10
Figure 10.	Gas Chromatogram of R-114.....	11
Figure 11.	Gas Chromatogram of R-115.....	12
Figure 12.	Gas Chromatogram of R-116.....	13
Figure 13.	Gas Chromatogram of R-123 (Packed).....	14
Figure 14.	Gas Chromatogram of R-123 (Capillary)	15
Figure 15.	Gas Chromatogram of R-124.....	16
Figure 16.	Gas Chromatogram of R-125.....	17
Figure 17.	Gas Chromatogram of R-134a	18
Figure 18.	Gas Chromatogram of R-141b.....	19
Figure 19.	Gas Chromatogram of R-142b.....	20
Figure 20.	Gas Chromatogram of R-143a	21
Figure 21.	Gas Chromatogram of R-152a	22
Figure 22.	Gas Chromatogram of R-218.....	23
Figure 23.	Gas Chromatogram of R-236fa.....	24
Figure 24.	Gas Chromatogram of R-245fa.....	25
Figure 25.	Gas Chromatogram of R-290.....	26
Figure 26.	Gas Chromatogram of R-401.....	27
Figure 27.	Gas Chromatogram of R-402.....	28
Figure 28.	Gas Chromatogram of R-403.....	29
Figure 29.	Gas Chromatogram of R-404.....	30
Figure 30.	Gas Chromatogram of R-406.....	31
Figure 31.	Gas Chromatogram of R-407.....	32
Figure 32.	Gas Chromatogram of R-408.....	33
Figure 33.	Gas Chromatogram of R-409.....	34
Figure 34.	Gas Chromatogram of R-410.....	35
Figure 35.	Gas Chromatogram of R-411.....	36
Figure 36.	Gas Chromatogram of R-412.....	37
Figure 37.	Gas Chromatogram of R-413.....	38
Figure 38.	Gas Chromatogram of R-414.....	39
Figure 39.	Gas Chromatogram of R-416.....	40
Figure 40.	Gas Chromatogram of R-417	41
Figure 41.	Gas Chromatogram of R-422.....	42
Figure 42.	Gas Chromatogram of R-500.....	43

LIST OF FIGURES (Continued)

Figure 43.	Gas Chromatogram of R-502.....	44
Figure 44.	Gas Chromatogram of R-503.....	45
Figure 45.	Gas Chromatogram of R-507.....	46
Figure 46.	Gas Chromatogram of R-508.....	47
Figure 47.	Gas Chromatogram of R-509.....	48
Figure 48.	Gas Chromatogram of R-600.....	49

Gas Chromatogram Figures

Section 1. Purpose

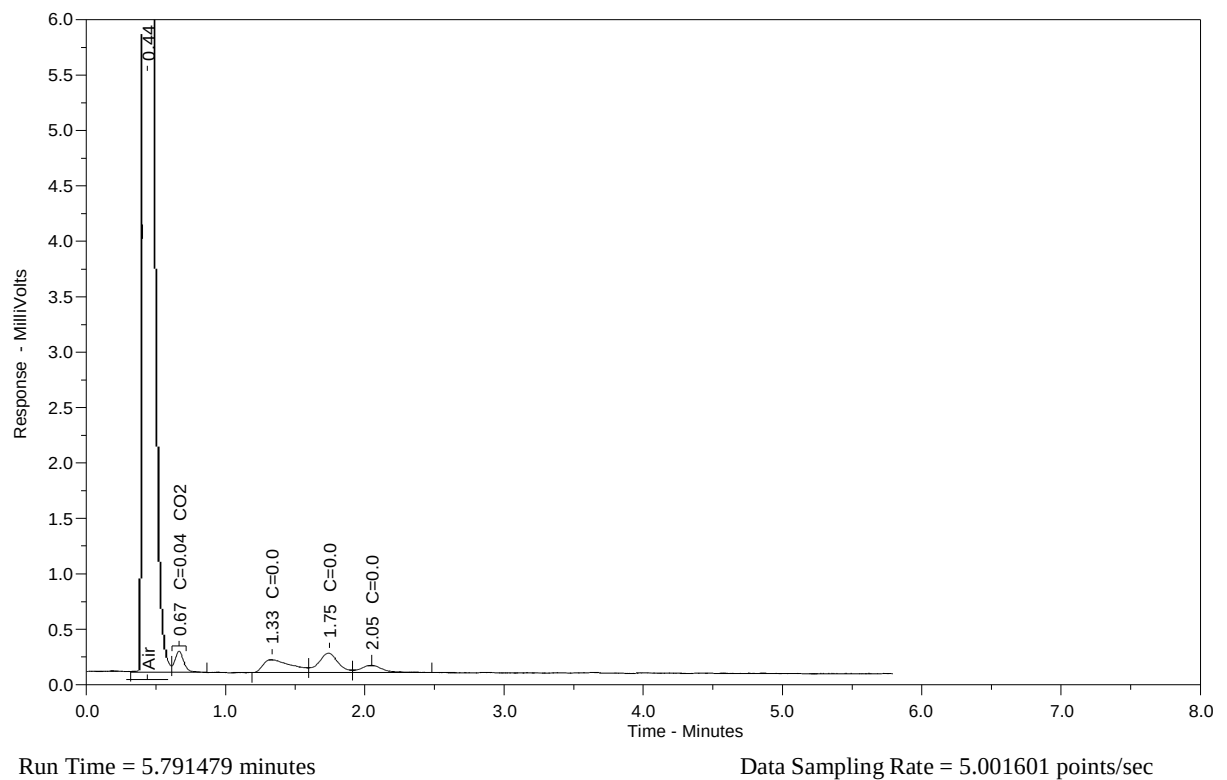
The purpose of this normative appendix is to provide figures for the gas chromatograms used with the 2008 Appendix C, *Analytical Procedures for AHRI Standard 700 – Normative*.

Section 2. Definitions

Note for all figures:

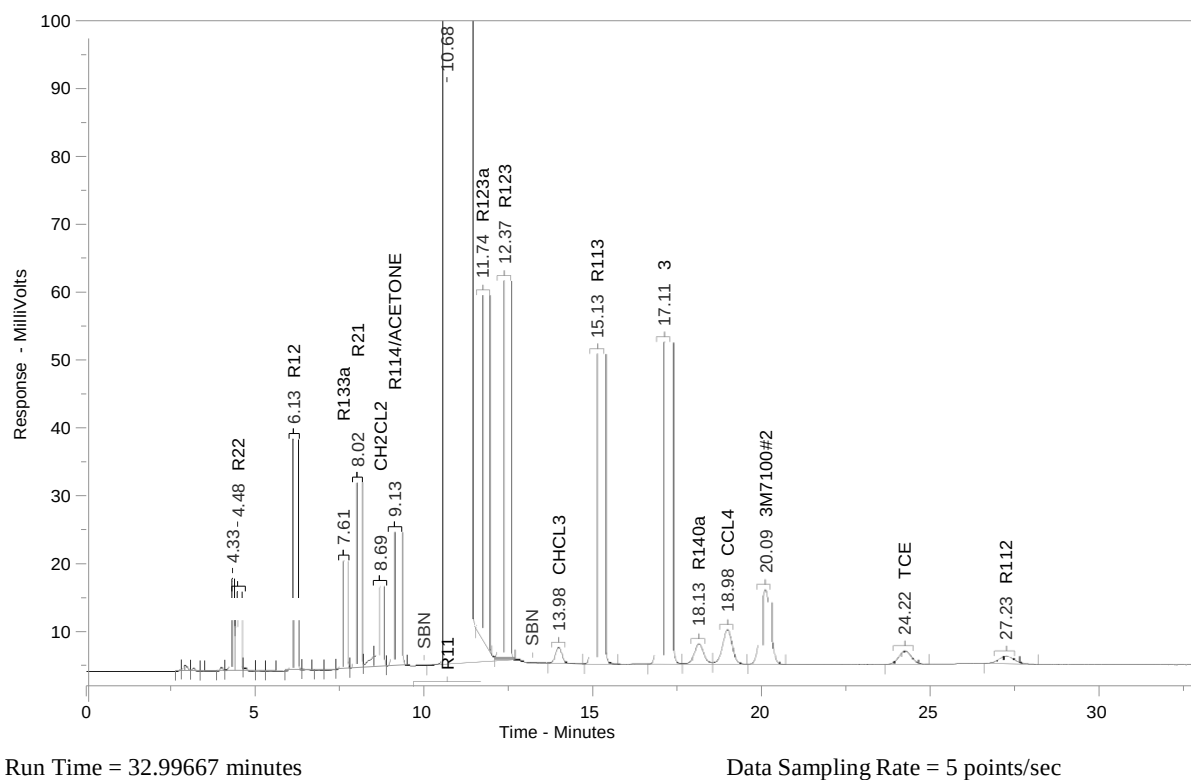
2.1 Ret. Time = Retention Time

2.2 Comp. = Component



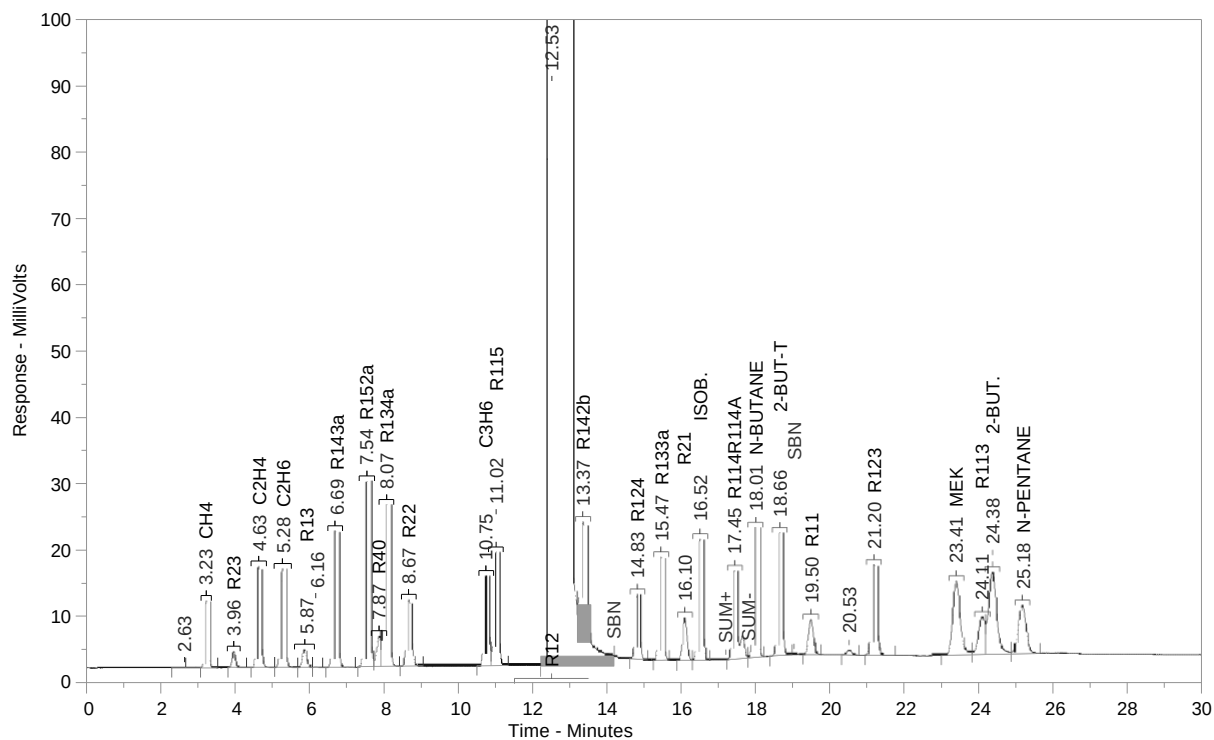
Ret. Time	Component
0.44	Air
0.67	CO2
1.33	
1.75	
2.05	

Figure 1. Gas Chromatogram of Non-Condensable Gas



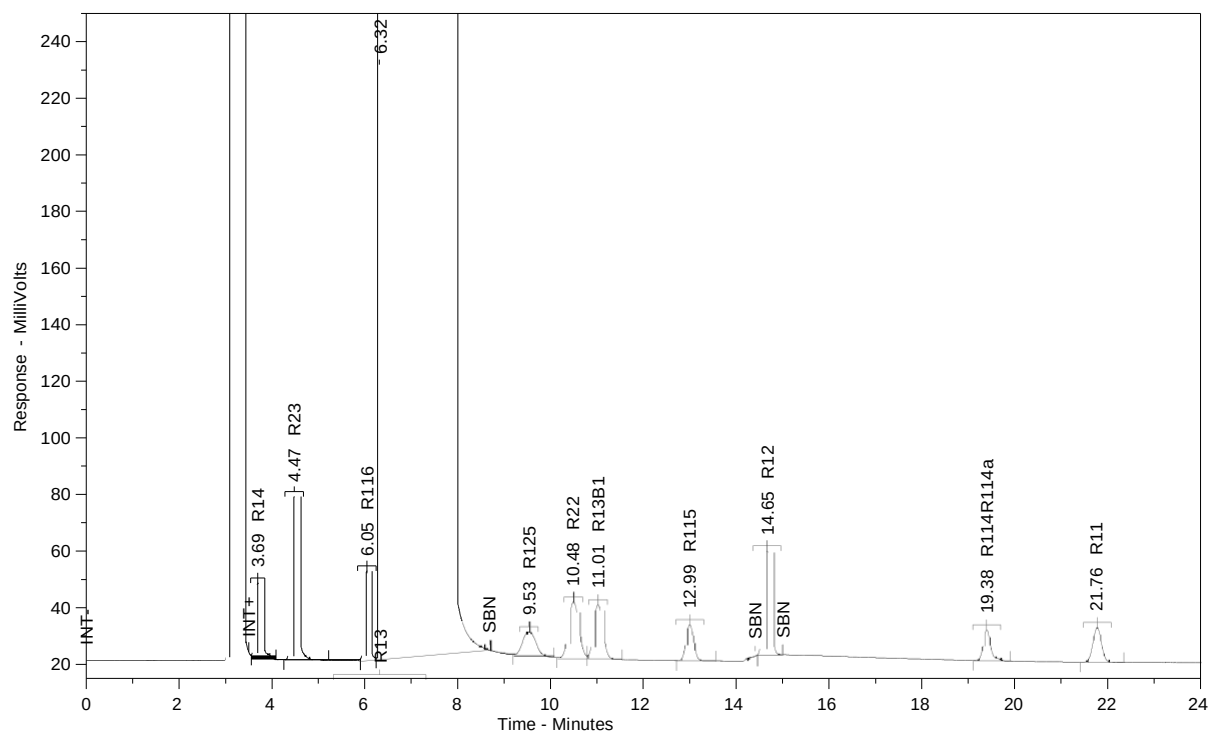
Ret. Time	Component
4.33	
4.48	R22
6.13	R12
7.61	R133a
8.02	R21
8.69	CH2CL2
9.13	R114/ACETONE
10.68	R11
11.74	R123a
12.37	R123
13.98	CHCL3
15.13	R113
17.11	3M7100#1
18.13	R140a
18.98	CCL4
20.09	3M7100#2
24.22	TCE
27.23	R112

Figure 2. Gas Chromatogram of R-11



Ret. Time	Component	Ret. Time	Component
2.63		21.20	R123
3.23	CH4	23.41	MEK
3.96	R23	24.11	R113
4.63	C2H4	24.38	2-BUT.
5.28	C2H6	25.18	N-PENTANE
5.87	R13		
6.16			
6.69	R143a		
7.54	R152a		
7.87	R40		
8.07	R134a		
8.67	R22		
10.75	C3H6		
11.02	R115		
12.53	R12		
13.37	R142b		
14.83	R124		
15.47	R133a		
16.10	R21		
16.52	ISOB.		
17.45	R114R114A		
18.01	N-BUTANE		
18.66	2-BUT-T		
19.50	R11		
20.53			

Figure 3. Gas Chromatogram of R-12

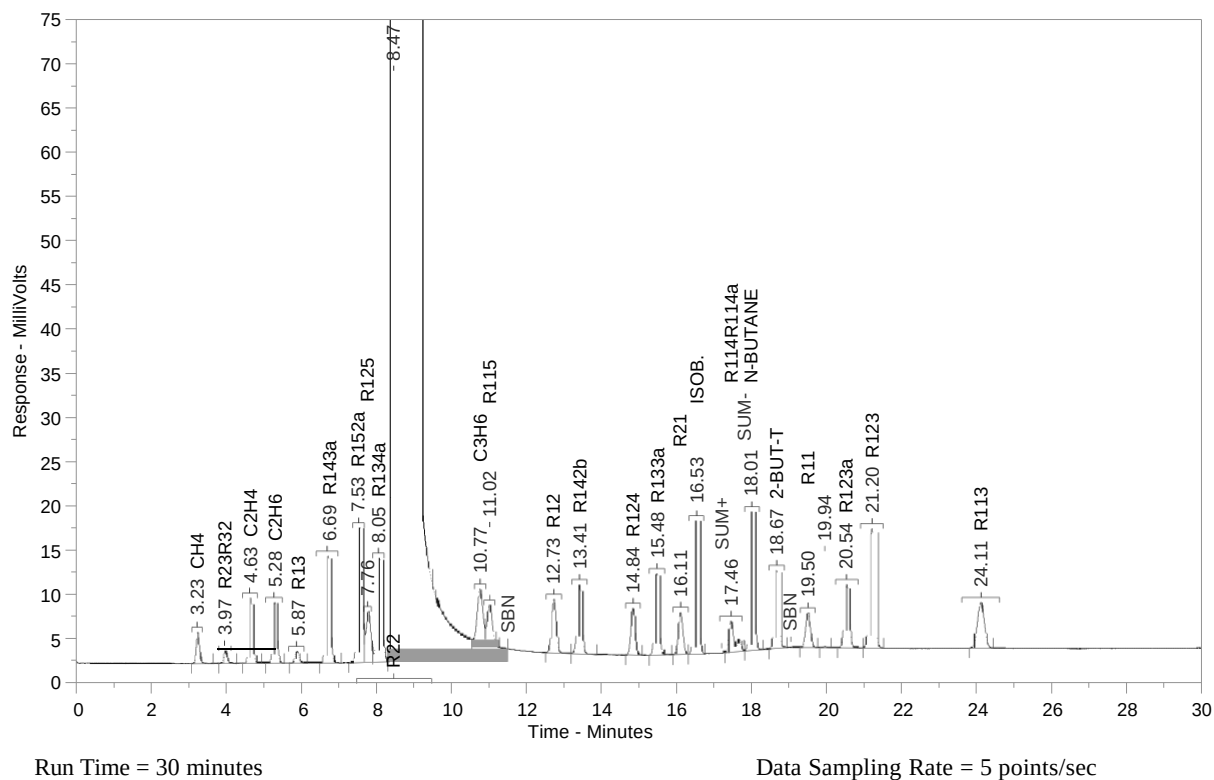


Run Time = 24 minutes

Data Sampling Rate = 5 points/sec

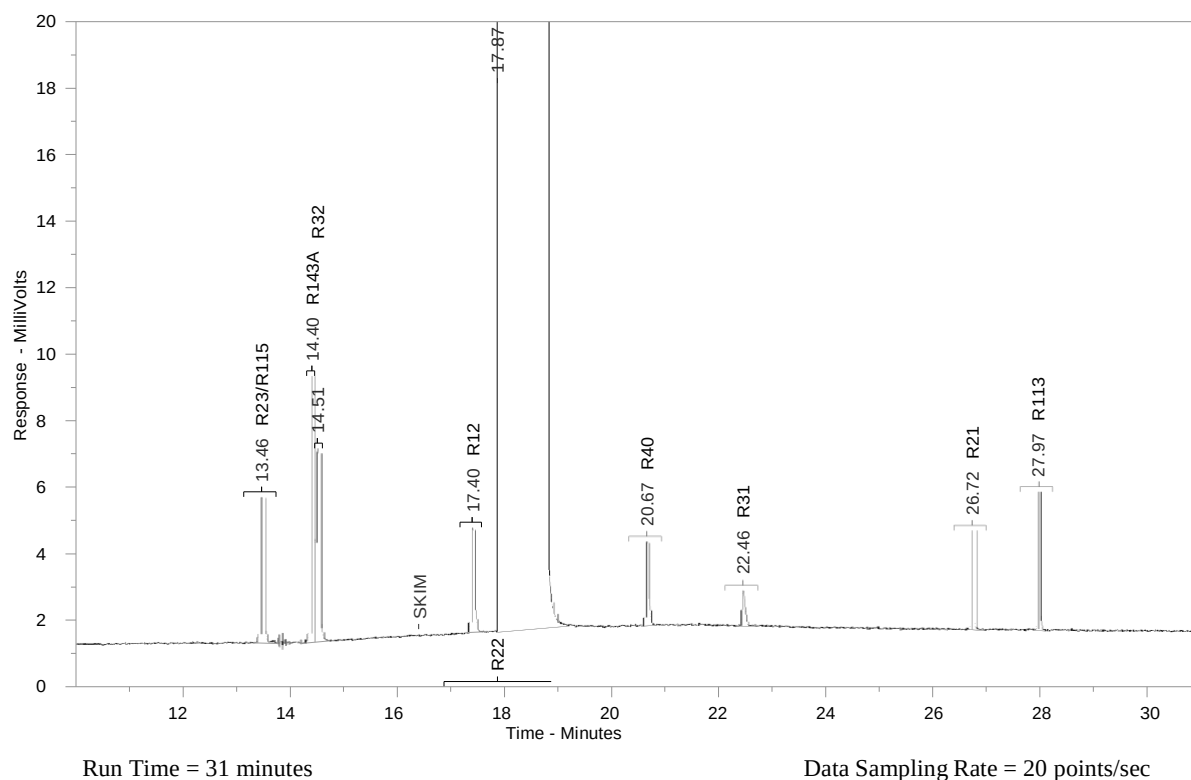
Ret. Time	Component
3.69	R14
4.47	R23
6.05	R116
6.32	R13
9.53	R125
10.48	R22
11.01	R13B1
12.99	R115
14.65	R12
19.38	R114R114a
21.76	R11

Figure 4. Gas Chromatogram of R-13



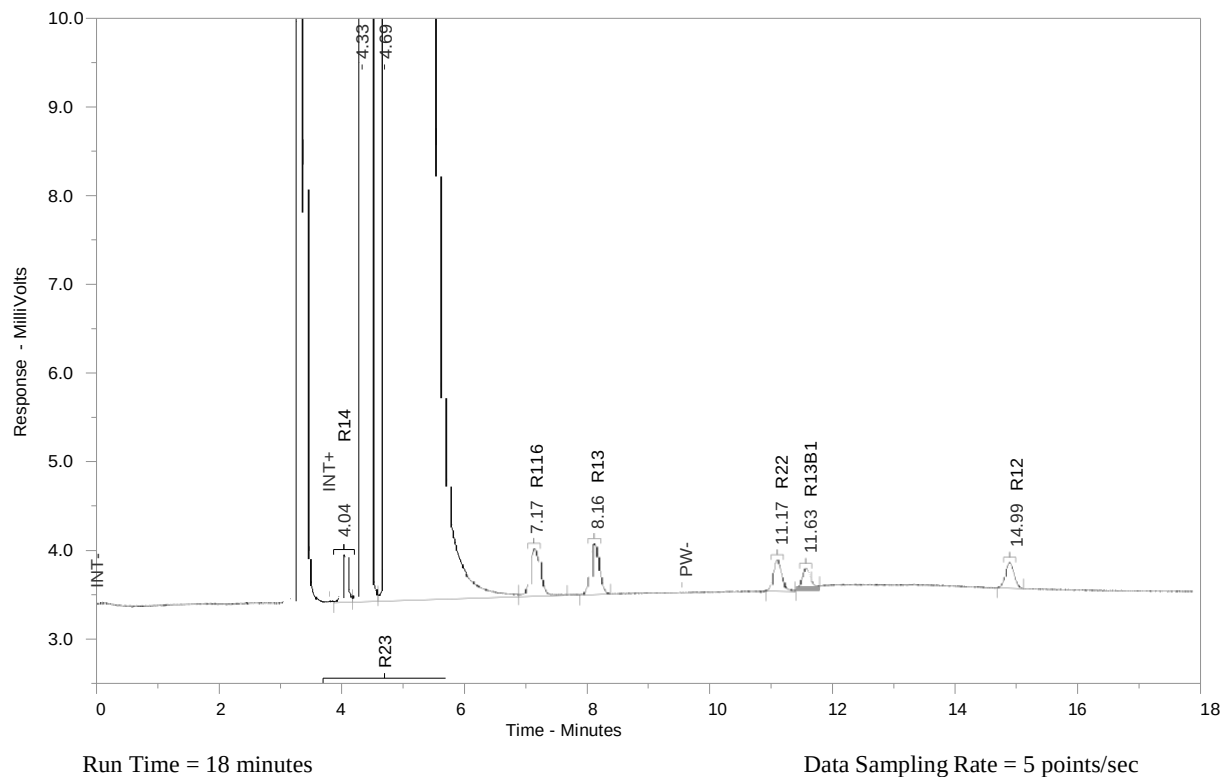
Ret. Time	Component
3.23	CH4
3.97	R23R32
4.63	C2H4
5.28	C2H6
5.87	R13
6.69	R143a
7.53	R152a
7.76	R125
8.05	R134a
8.47	R22
10.77	C3H6
11.02	R115
12.73	R12
13.41	R142b
14.84	R124
15.48	R133a
16.11	R21
16.53	ISOB.
17.46	SUM+
18.01	R114R114a
18.67	N-BUTANE
18.67	2-BUT-T
19.50	R11
19.94	-
20.54	R123a
21.20	R123
24.11	R113

Figure 5. Gas Chromatogram of R-22 (Packed)



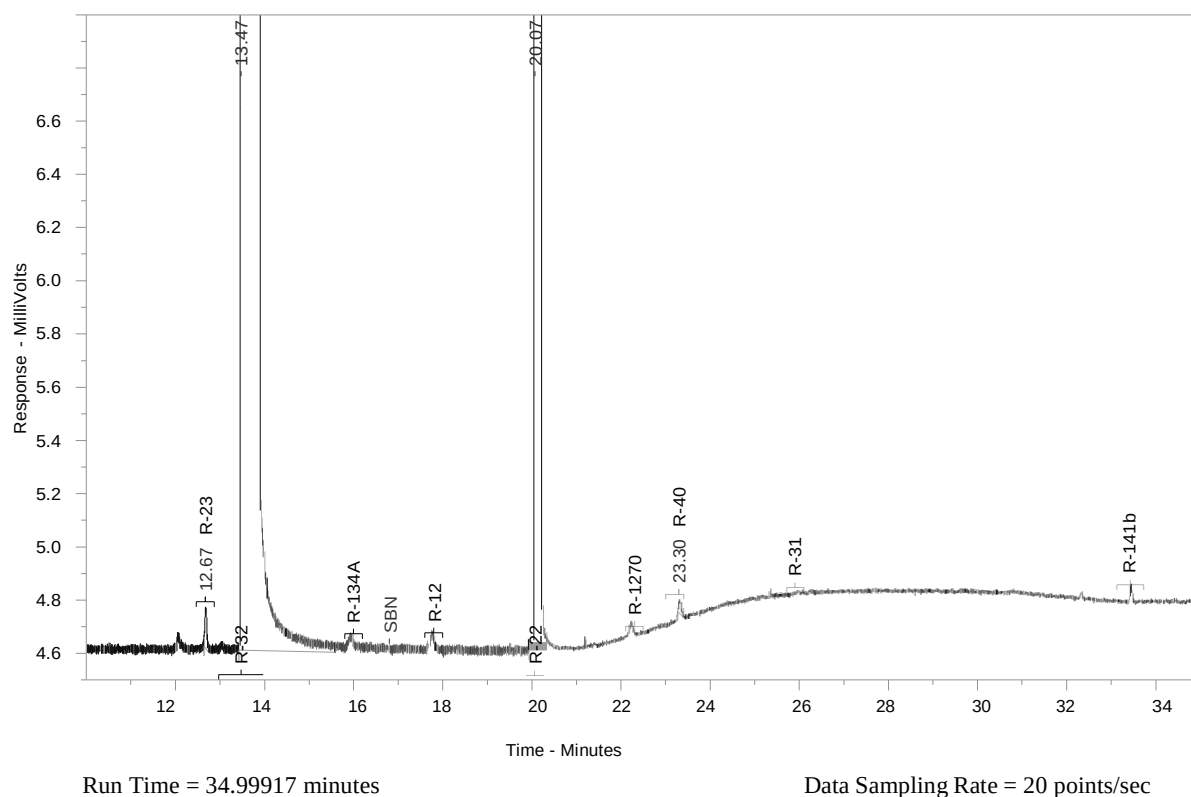
Ret. Time	Component
13.46	R23/R115
14.40	R143A
14.51	R32
17.40	R12
17.87	R22
20.67	R40
22.46	R31
26.72	R21
27.97	R113

Figure 6. Gas Chromatogram of R-22 (Capillary)



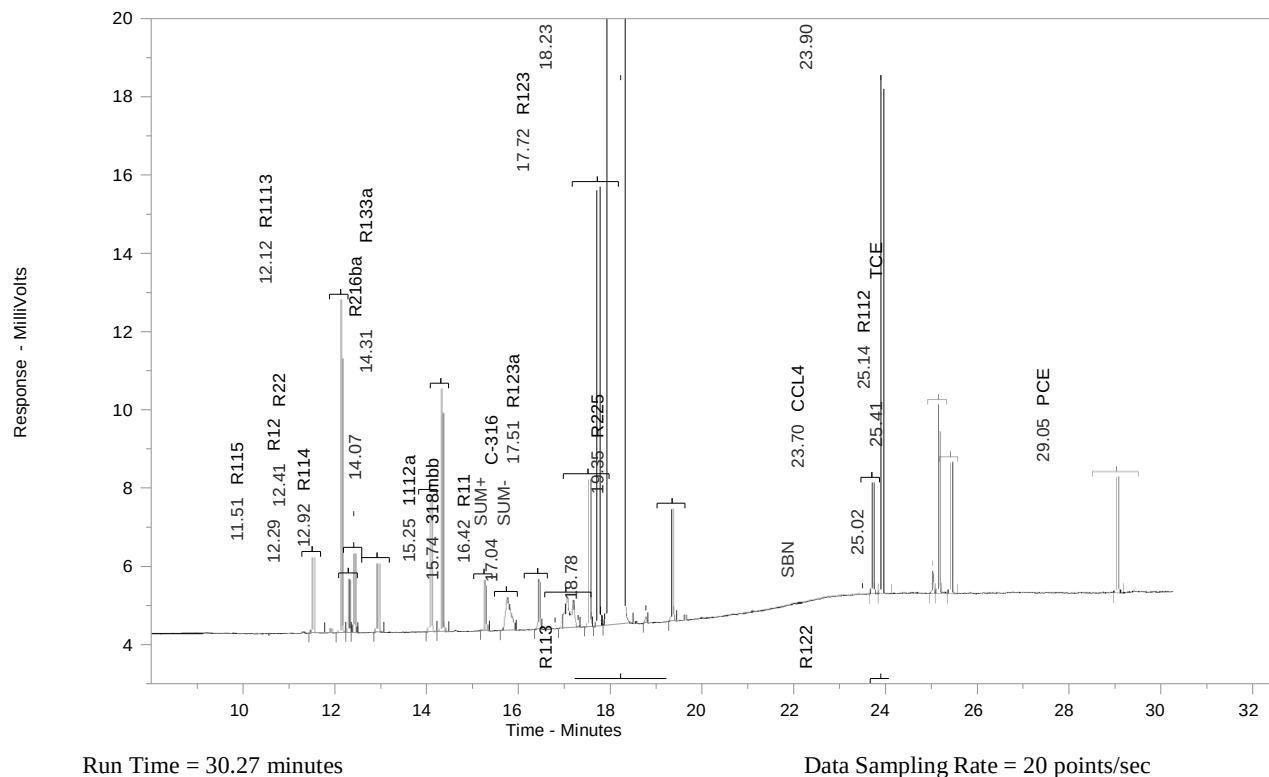
Ret. Time	Component
4.04	R14
4.33	
4.69	R23
7.17	R116
8.16	R13
11.17	R22
11.63	R13B1
14.99	R12

Figure 7. Gas Chromatogram of R-23



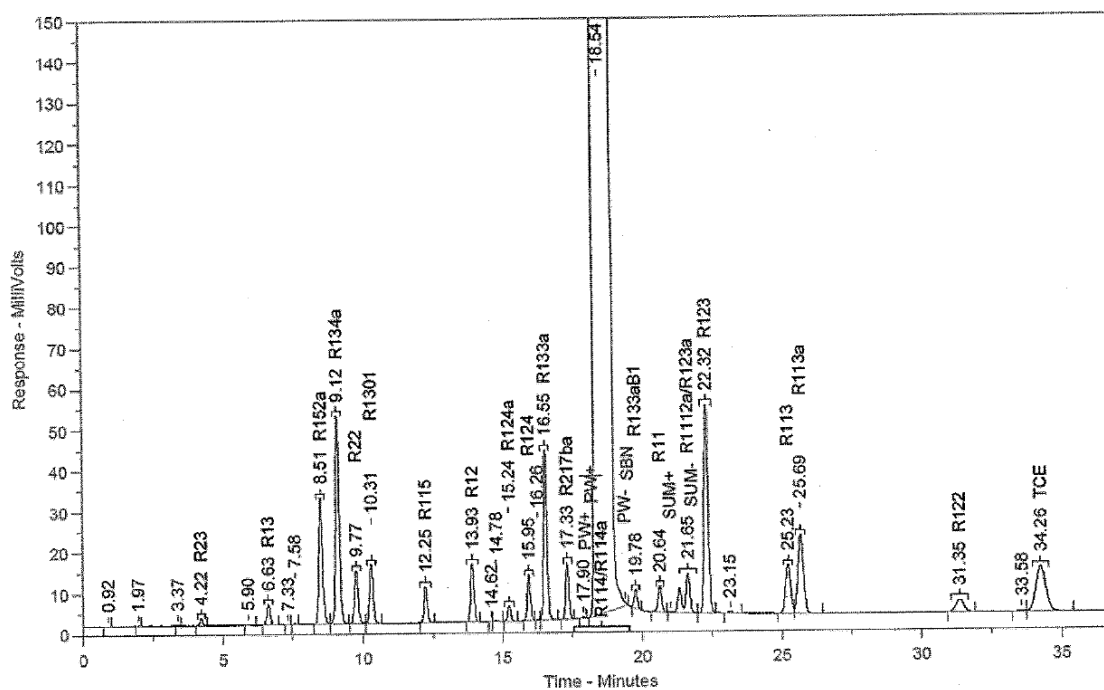
Ret. Time	Component
12.67	R-23
13.47	R-32
20.07	R-22
23.30	R-40

Figure 8. Gas Chromatogram of R-32



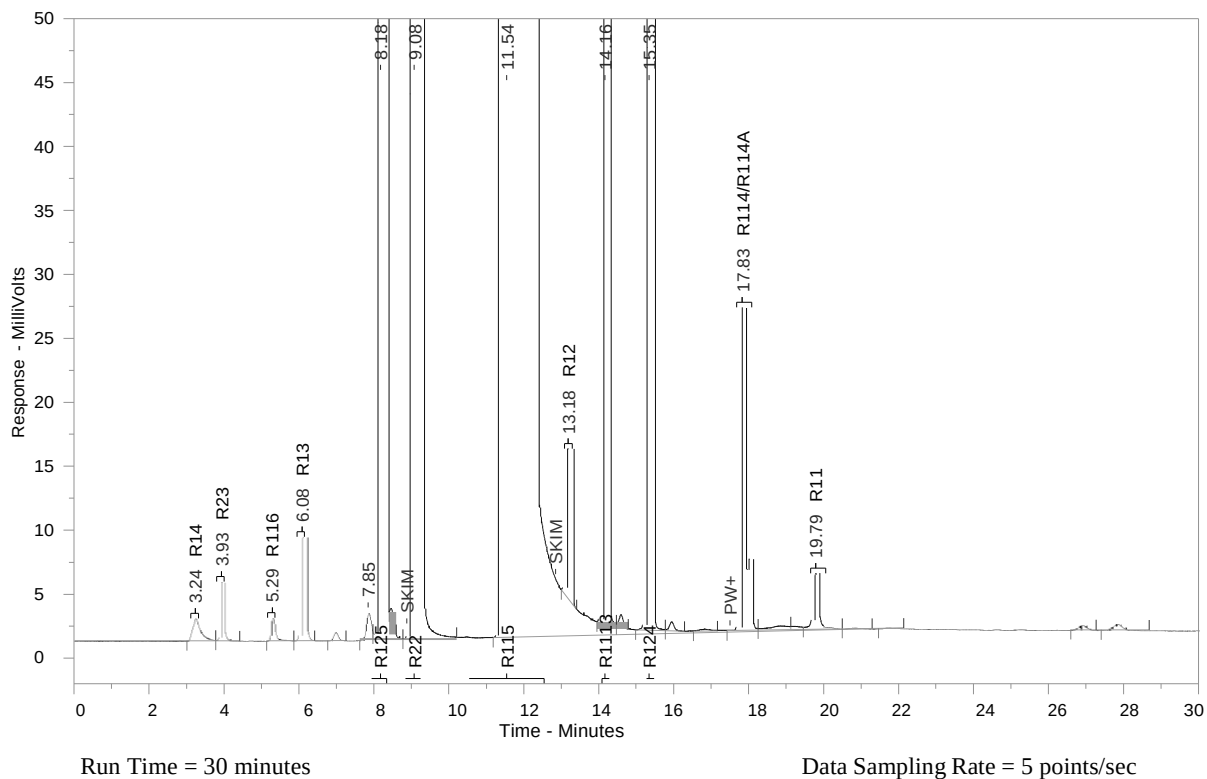
Ret. Time	Component
11.51	R115
12.12	R1113
12.29	R12
12.41	R22
12.92	R114
14.07	R216ba
14.31	R133a
15.25	1112a
15.74	318mbb
16.42	R11
17.04	C-316
17.51	R123a
17.72	R123
18.23	R113
18.78	
19.35	R225
23.70	CCL4
23.90	R122
25.02	
25.14	R112
25.41	TCE
29.05	PCE

Figure 9. Chromatogram of R-113



Ret. Time	Component
0.92	
1.97	
3.37	
4.22	R23
5.90	
6.63	R13
7.33	
7.58	
8.51	R152a
9.12	R134a
9.77	R22
10.31	R1301
12.25	R115
13.93	R12
14.62	
14.78	
15.24	R124a
15.95	R124
16.26	
16.55	R133a
17.33	R217ba
17.90	PW+ PW- R114/R114a
18.54	PW- SBN R133aB1
19.78	SUM+ R11
20.64	SUM- R1112a/R123a
21.65	
22.32	R123
23.15	
25.23	R113
25.69	R113a
31.35	R122
33.58	
34.26	TCE

Figure 10. Gas Chromatogram of R-114



Ret. Time	Component
3.24	R14
3.93	R23
5.29	R116
6.08	R13
7.85	
8.18	R125
9.08	R22
11.54	R115
13.18	R12
14.16	R1113
15.35	R124
17.83	R114/R114A
19.79	R11

Figure 11. Gas Chromatogram of R-115