

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012324\
 Data File : VL041000.D
 Acq On : 23 Jan 2024 17:26
 Operator : SY/MD
 Sample : P1211-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jan 24 01:00:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jan 24 00:50:15 2024
 Response via : Initial Calibration

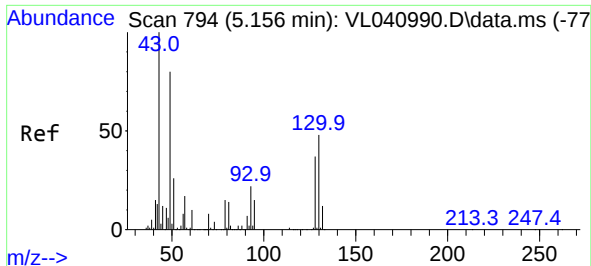
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.160	49	1025563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.616	114	2627949	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.423	117	2213183	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.732	95	1658588	9.922	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	100469	0.444	ppbv	99
3) Chlorodifluoromethane	2.848	51	18676	0.108	ppbv #	63
4) Chloromethane	2.787	50	29761	0.460	ppbv	93
7) Chloroethane	3.169	64	33549	1.470	ppbv #	87
9) Propene	2.845	41	868785	15.355	ppbv	93
10) Heptane	7.539	43	54506	0.391	ppbv	98
11) Trichlorofluoromethane	3.530	101	17905	0.098	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.034	101	5623	0.043	ppbv #	29
13) Ethanol	3.218	45	5198219	385.496	ppbv	94
15) Acetone	3.433	43	6525683	49.758	ppbv	98
16) 1,3-Butadiene	2.986	39	431588	6.879	ppbv #	13
17) tert-Butyl alcohol	3.558	59	682595	6.346	ppbv	96
19) Isopropyl Alcohol	3.558	45	14647900	192.947	ppbv #	95
20) Methylene Chloride	3.903	84	160023	3.171	ppbv	96
21) Allyl Chloride	3.700	41	47840	0.600	ppbv #	18
23) Vinyl Acetate	4.581	43	20041	0.148	ppbv #	37
25) Ethyl Acetate	5.179	43	144603	0.608	ppbv #	87
26) Hexane	5.179	57	163424	1.612	ppbv #	47
29) Chloroform	5.240	83	8274	0.046	ppbv	90
30) Cyclohexane	6.571	84	3348	0.039	ppbv #	1
34) 2-Butanone	4.748	43	737208	5.888	ppbv	99
35) Carbon Tetrachloride	6.462	117	7772	0.044	ppbv #	70
36) Benzene	6.337	78	33778	0.156	ppbv	95
39) 1,2-Dichloropropane	6.613	63	650030	7.603	ppbv #	23
41) Tetrahydrofuran	5.513	42	1568130	18.447	ppbv	97
44) 2,2,4-Trimethylpentane	7.282	57	47250	0.129	ppbv #	81
52) Tetrachloroethene	10.574	164	3783	0.052	ppbv #	16
53) Toluene	9.182	91	443447	1.865	ppbv	98
58) Ethyl Benzene	12.047	91	30791	0.104	ppbv	96
59) m/p-Xylene	12.333	91	9503	0.037	ppbv #	32
60) o-Xylene	13.018	91	27117	0.109	ppbv	72
61) Styrene	12.854	104	4182	0.037	ppbv #	64
74) 1,2,4-Trimethylbenzene	16.066	105	17316	0.062	ppbv #	70
80) Naphthalene,2-methyl-	24.339	142	10178	0.364	ppbv #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Jan 24 01:00:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jan 24 00:50:15 2024
Response via : Initial Calibration

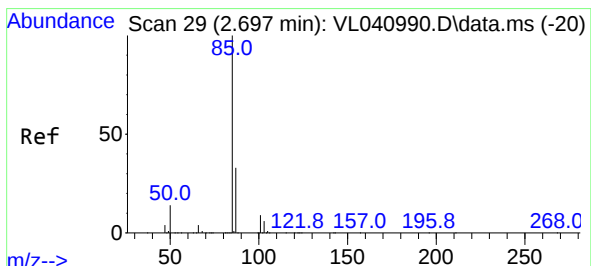
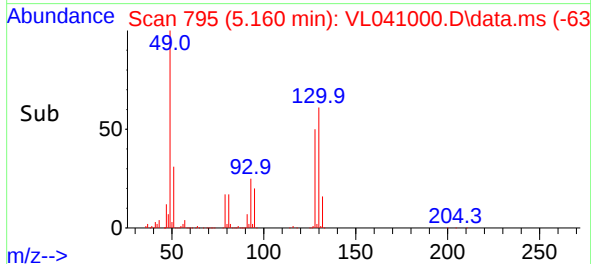
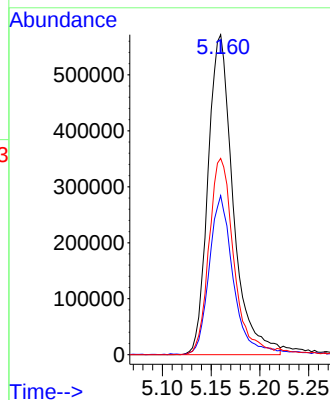
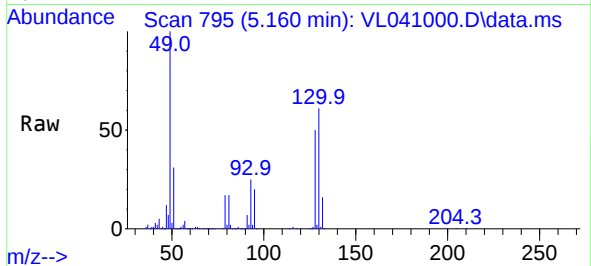




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.160 min Scan# 794
Delta R.T. 0.004 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

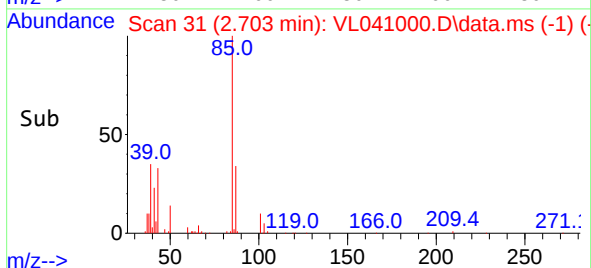
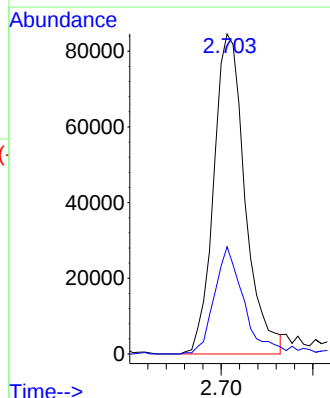
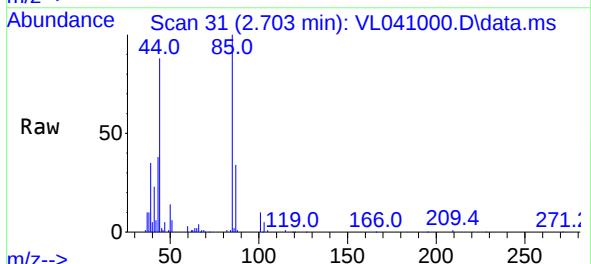
Instrument :
MSVOA_L
ClientSampleId :
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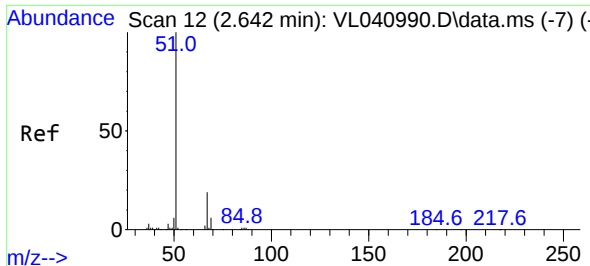
Tgt Ion: 49 Resp: 1025563
Ion Ratio Lower Upper
49 100
128 48.9 23.9 71.7
130 62.2 31.1 93.5



#2
Dichlorodifluoromethane
Concen: 0.444 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 85 Resp: 100469
Ion Ratio Lower Upper
85 100
87 33.5 26.3 39.5

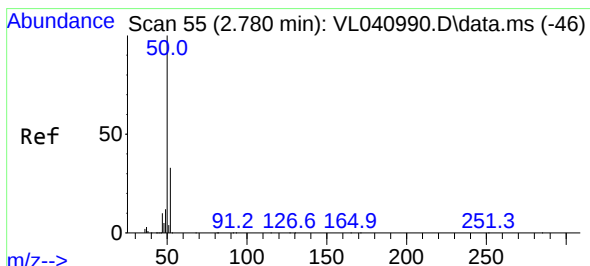
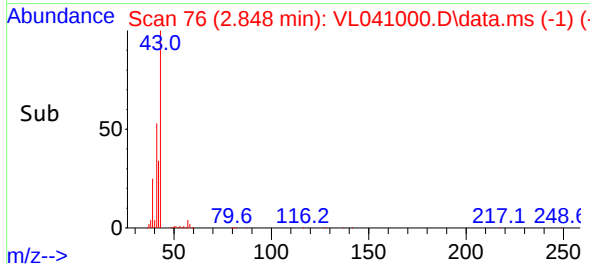
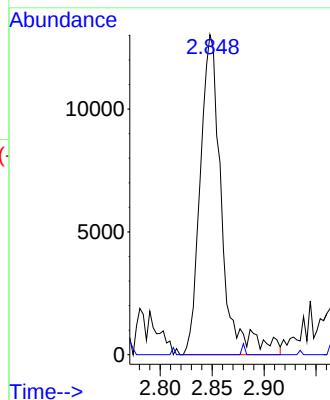
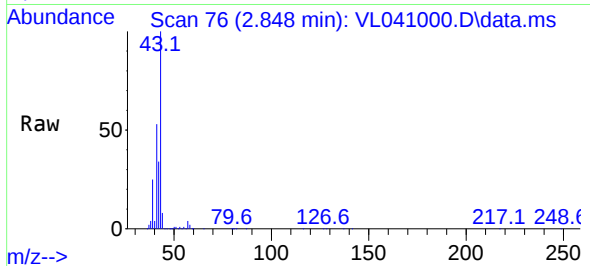




#3
Chlorodifluoromethane
Concen: 0.108 ppbv
RT: 2.848 min Scan# 70
Delta R.T. 0.206 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

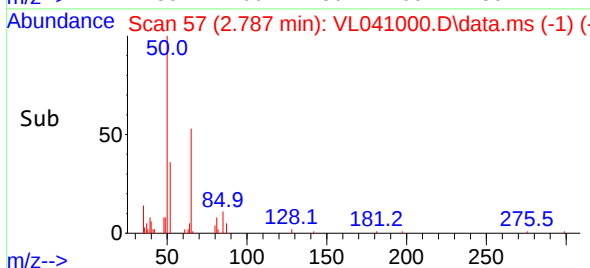
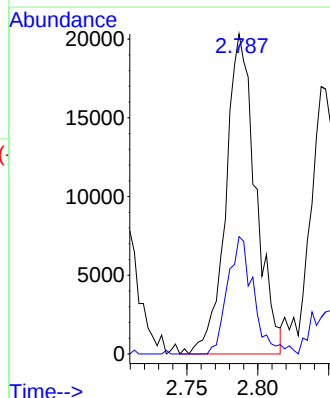
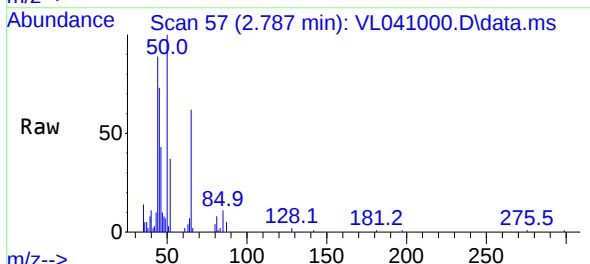
Instrument : MSVOA_L
ClientSampleId : 1A1

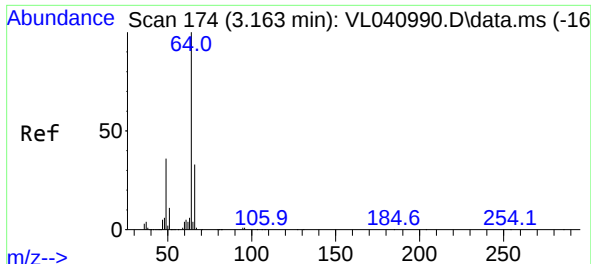
Tgt Ion: 51 Resp: 18676
Ion Ratio Lower Upper
51 100
67 1.9 14.8 22.2#



#4
Chloromethane
Concen: 0.460 ppbv
RT: 2.787 min Scan# 57
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 50 Resp: 29761
Ion Ratio Lower Upper
50 100
52 36.5 26.2 39.4

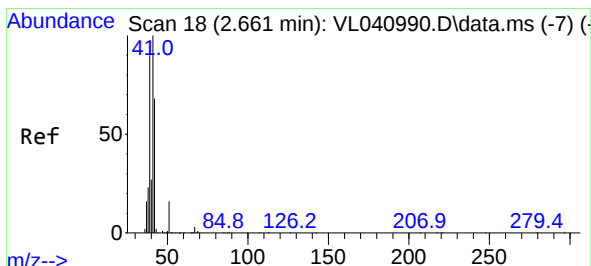
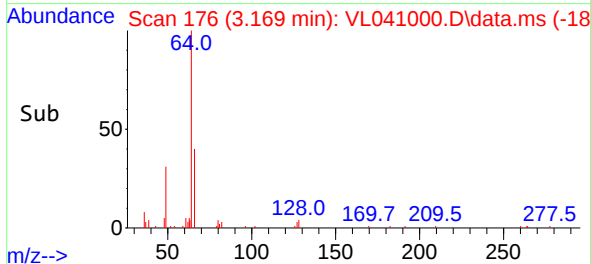
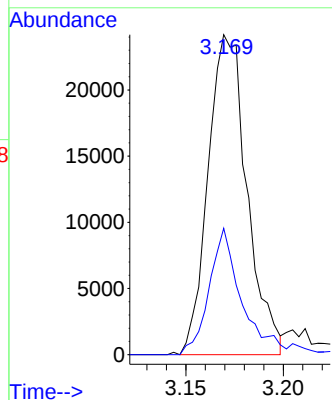
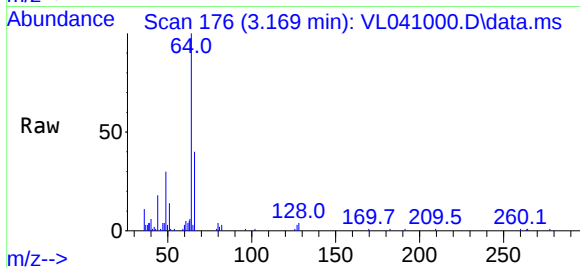




#7
Chloroethane
Concen: 1.470 ppbv
RT: 3.169 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

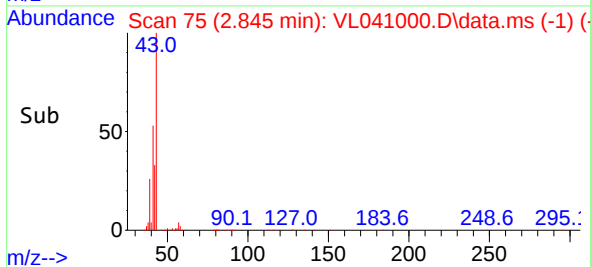
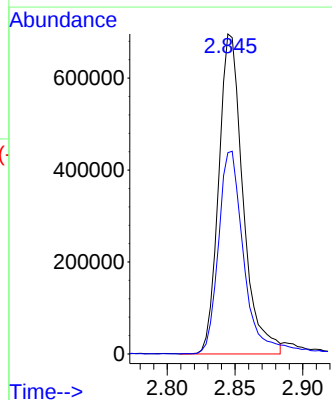
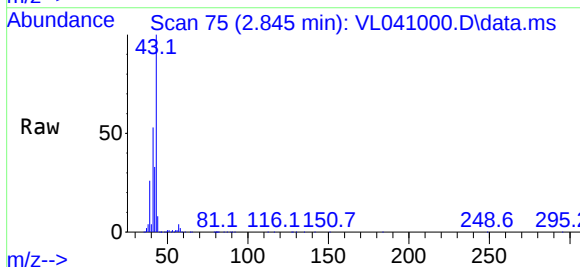
Instrument :
MSVOA_L
ClientSampleId :
IA1

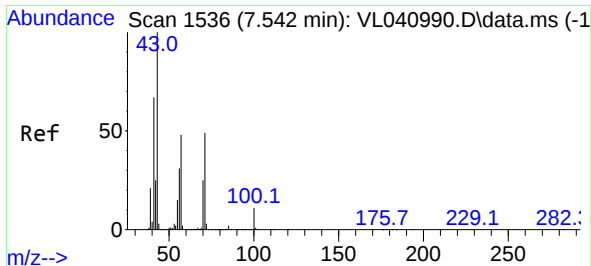
Tgt Ion: 64 Resp: 33549
Ion Ratio Lower Upper
64 100
66 39.5 26.0 39.0#



#9
Propene
Concen: 15.355 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.183 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 41 Resp: 868785
Ion Ratio Lower Upper
41 100
42 67.6 59.0 88.4

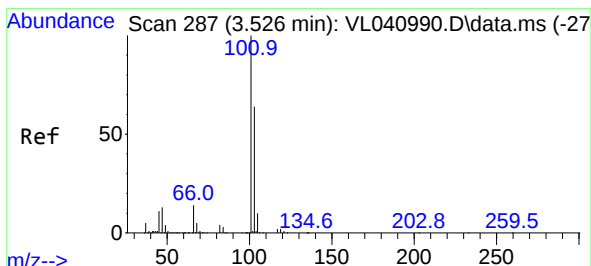
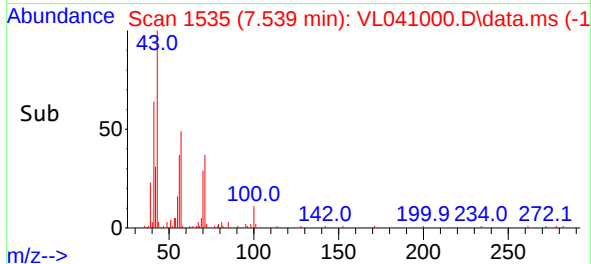
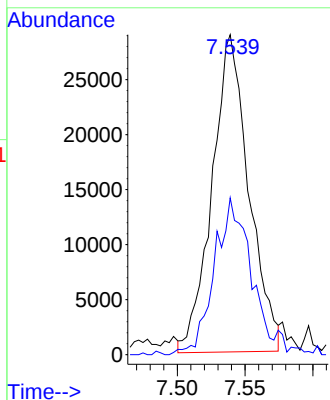
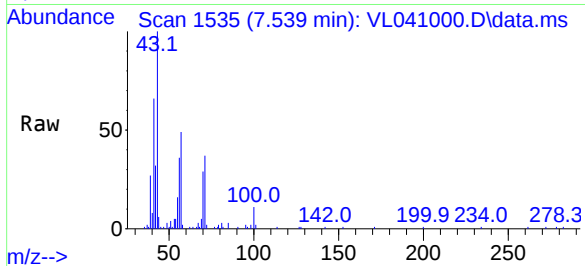




#10
Heptane
Concen: 0.391 ppbv
RT: 7.539 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

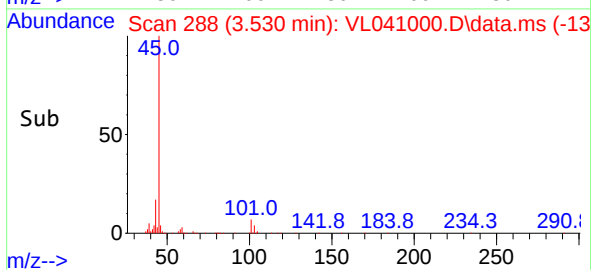
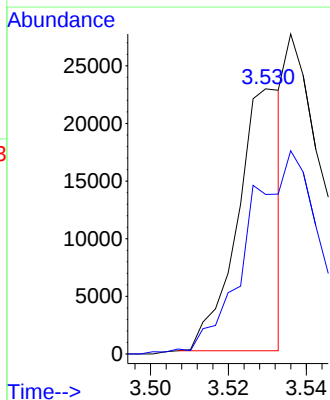
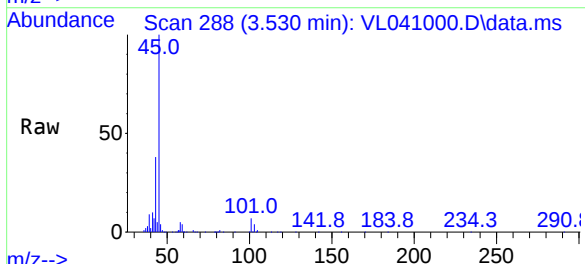
Instrument :
MSVOA_L
ClientSampleId :
IA1

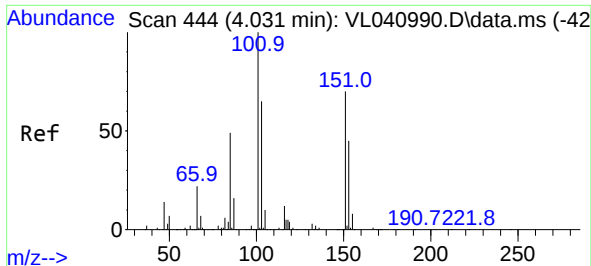
Tgt Ion: 43 Resp: 54506
Ion Ratio Lower Upper
43 100
57 50.9 39.4 59.2



#11
Trichlorofluoromethane
Concen: 0.098 ppbv
RT: 3.530 min Scan# 288
Delta R.T. 0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 101 Resp: 17905
Ion Ratio Lower Upper
101 100
103 59.1 51.4 77.2

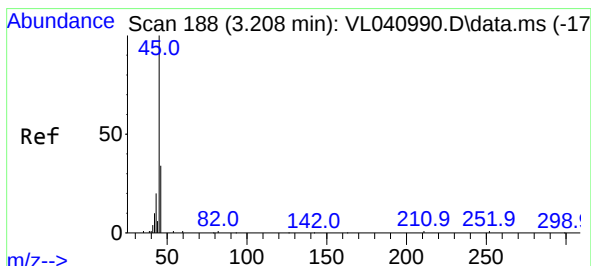
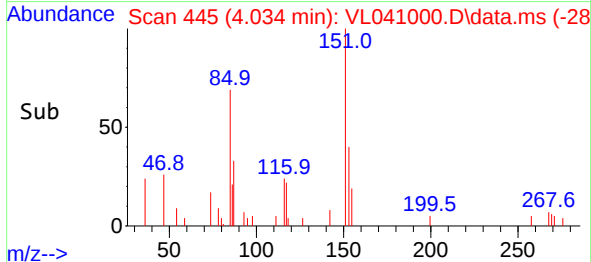
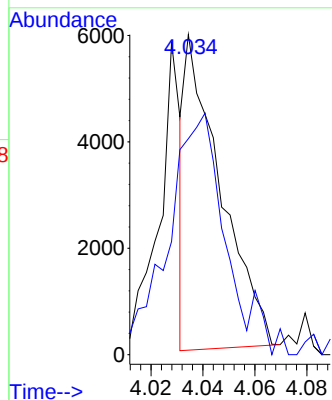
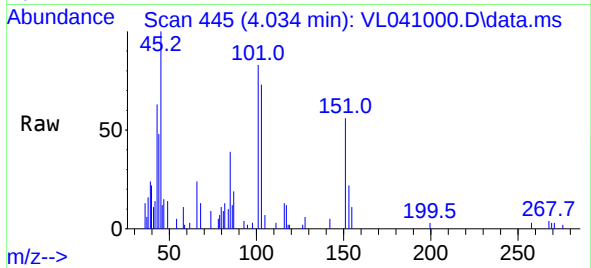




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.043 ppbv
RT: 4.034 min Scan# 444
Delta R.T. 0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

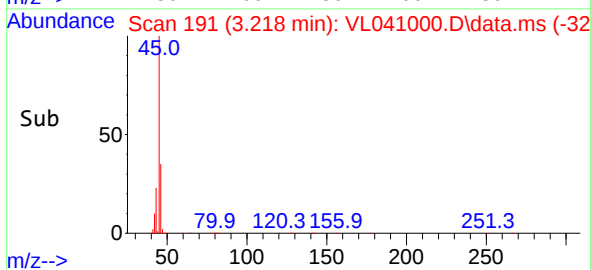
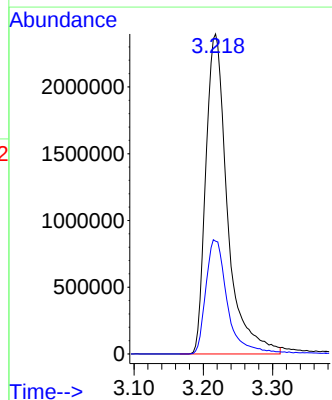
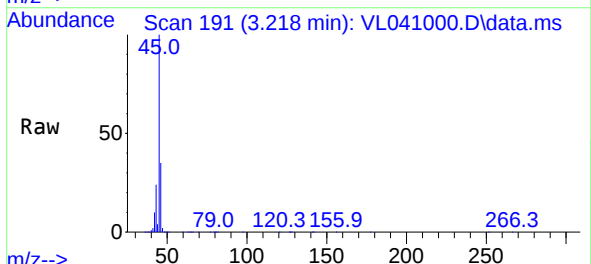
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MSVOA_L
ClientSampleId :
IA1

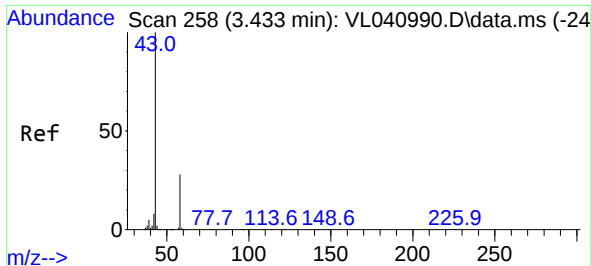
Tgt Ion:101 Resp: 5623
Ion Ratio Lower Upper
101 100
151 129.5 56.6 85.0#



#13
Ethanol
Concen: 385.496 ppbv
RT: 3.218 min Scan# 191
Delta R.T. 0.010 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 45 Resp: 5198219
Ion Ratio Lower Upper
45 100
46 36.5 16.2 64.8

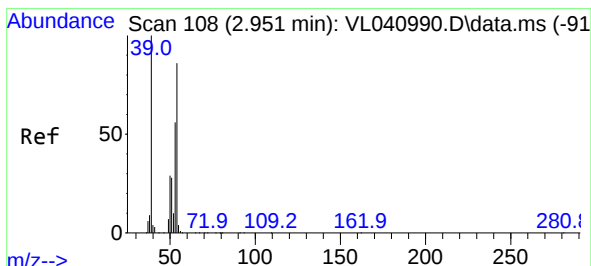
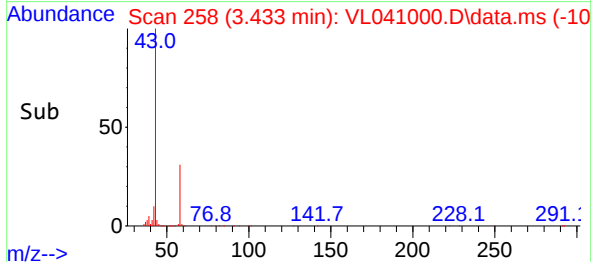
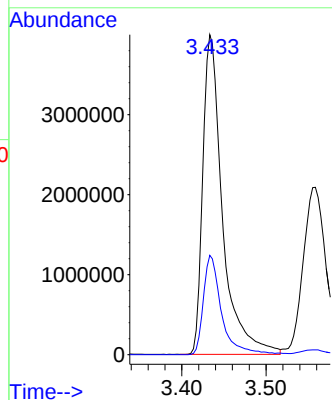
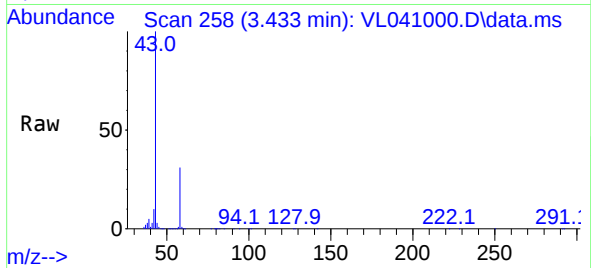




#15
Acetone
Concen: 49.758 ppbv
RT: 3.433 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

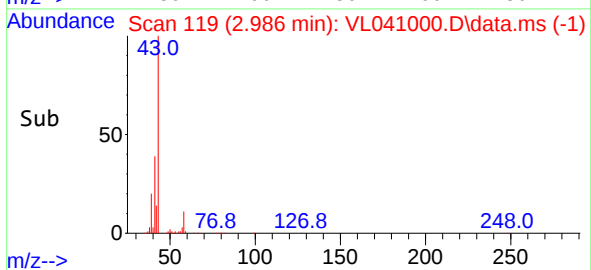
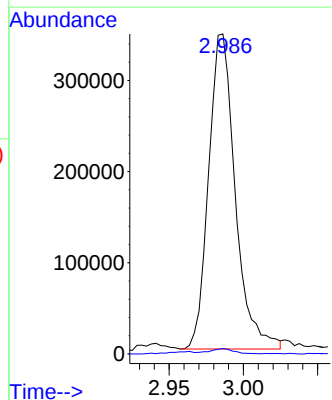
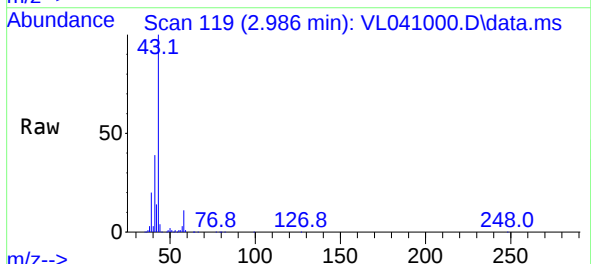
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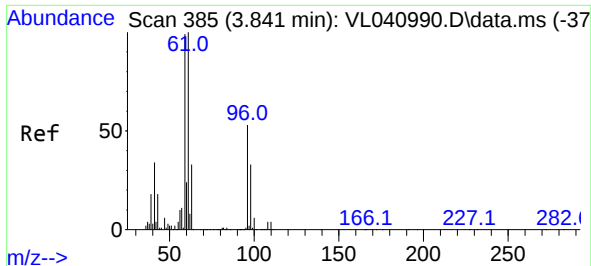
Tgt Ion: 43 Resp: 6525683
Ion Ratio Lower Upper
43 100
58 28.7 22.2 33.2



#16
1,3-Butadiene
Concen: 6.879 ppbv
RT: 2.986 min Scan# 119
Delta R.T. 0.035 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 39 Resp: 431588
Ion Ratio Lower Upper
39 100
54 2.3 62.7 94.1#

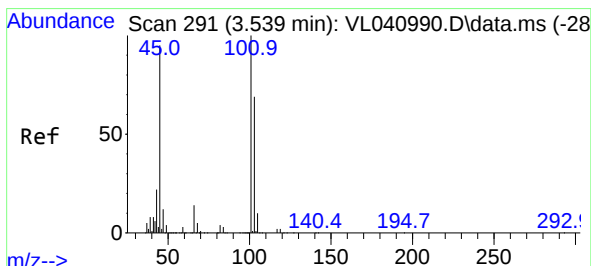
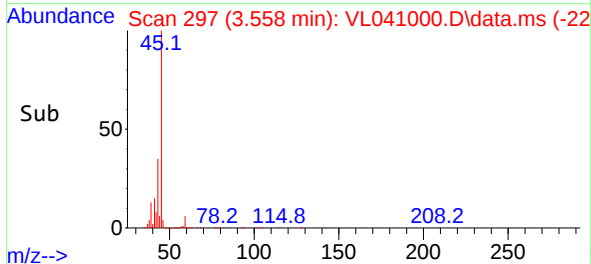
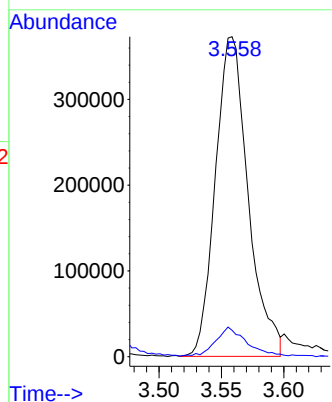
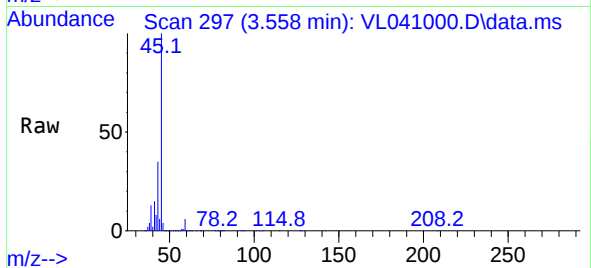




#17
tert-Butyl alcohol
Concen: 6.346 ppbv
RT: 3.558 min Scan# 297
Delta R.T. -0.283 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

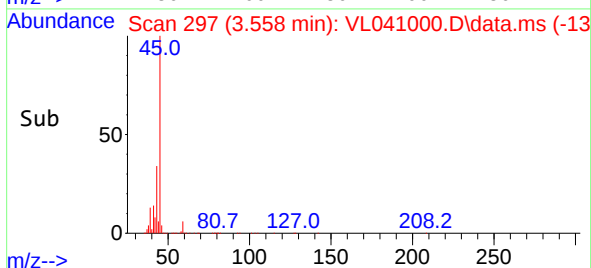
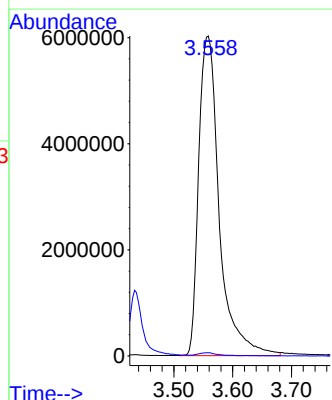
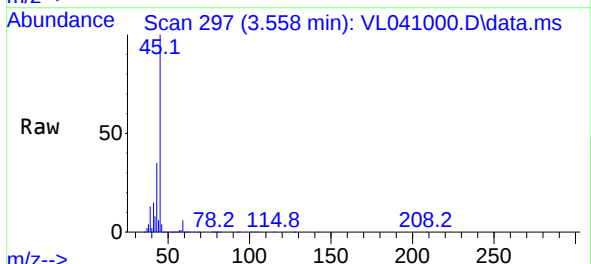
Instrument :
MSVOA_L
ClientSampleId :
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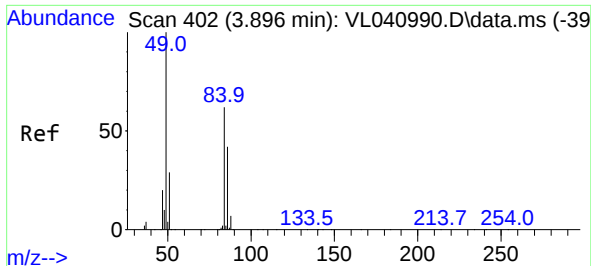
Tgt Ion: 59 Resp: 682595
Ion Ratio Lower Upper
59 100
57 9.4 8.7 13.1



#19
Isopropyl Alcohol
Concen: 192.947 ppbv
RT: 3.558 min Scan# 297
Delta R.T. 0.019 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 45 Resp: 14647900
Ion Ratio Lower Upper
45 100
58 1.1 2.2 3.4#

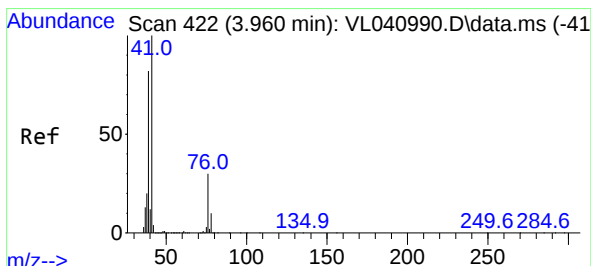
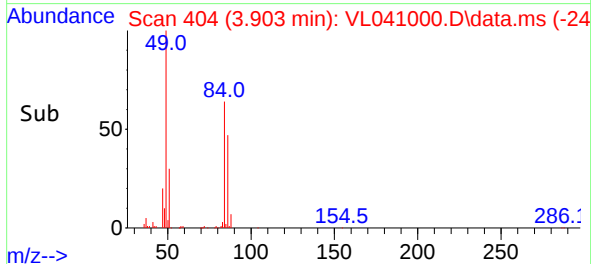
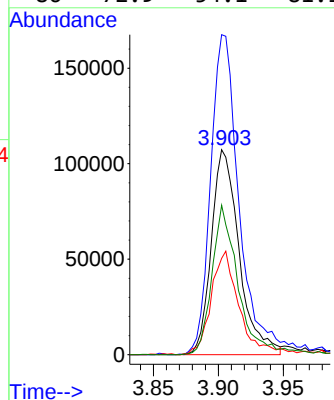
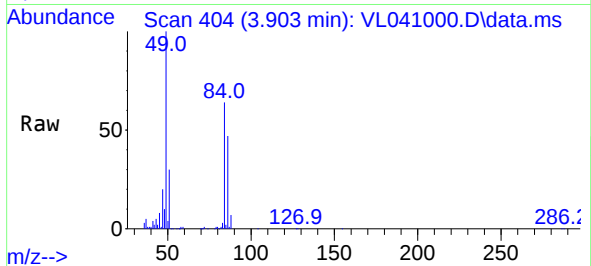




#20
Methylene Chloride
Concen: 3.171 ppbv
RT: 3.903 min Scan# 40
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

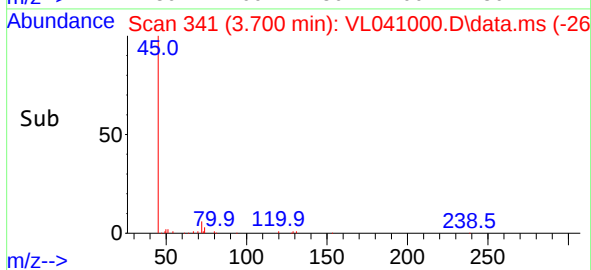
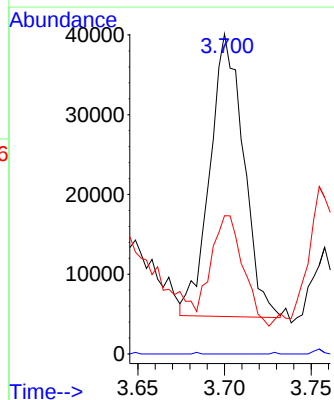
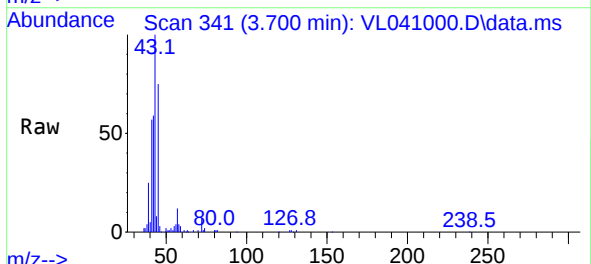
Instrument :
MSVOA_L
ClientSampleId :
IA1

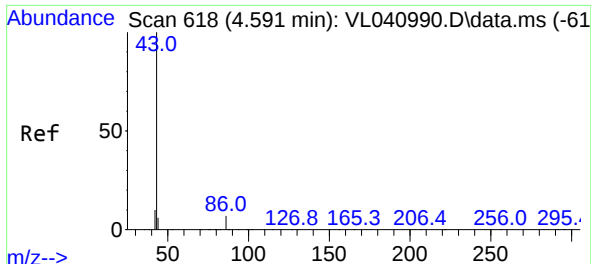
Tgt Ion: 84 Resp: 160023
Ion Ratio Lower Upper
84 100
49 155.8 128.1 192.1
51 47.0 36.5 54.7
86 72.9 54.1 81.1



#21
Allyl Chloride
Concen: 0.600 ppbv
RT: 3.700 min Scan# 341
Delta R.T. -0.260 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 41 Resp: 47840
Ion Ratio Lower Upper
41 100
76 1.8 25.0 37.4#
39 0.0 67.0 100.6#



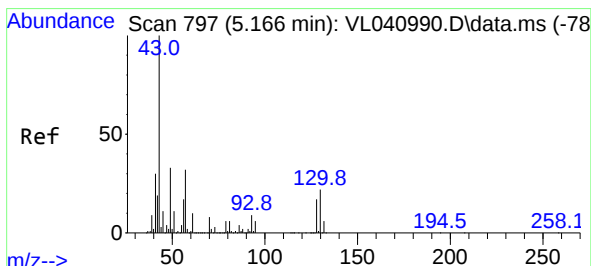
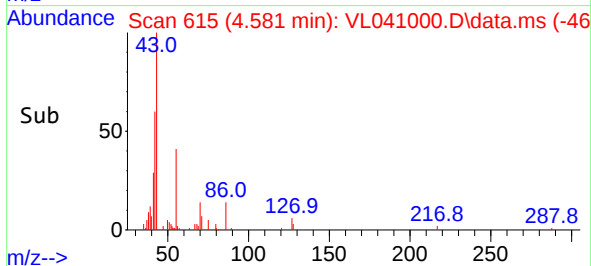
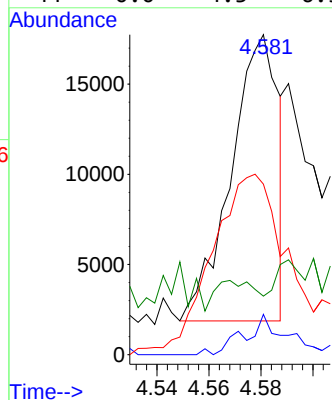
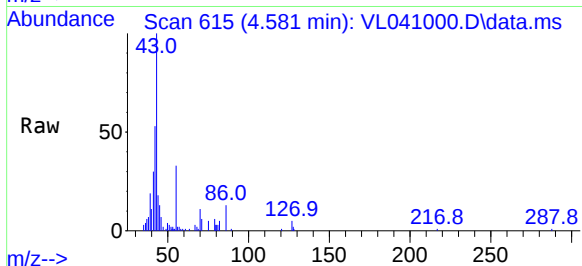


#23
Vinyl Acetate
Concen: 0.148 ppbv
RT: 4.581 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 20041

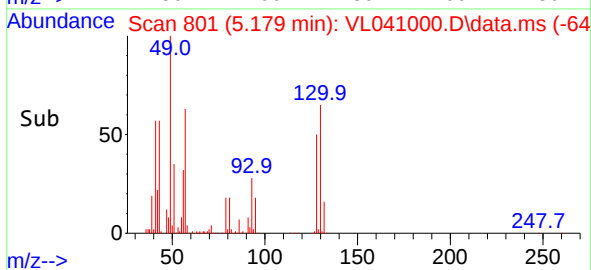
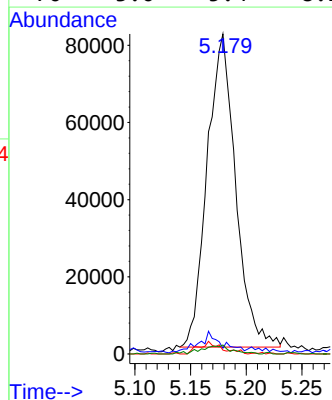
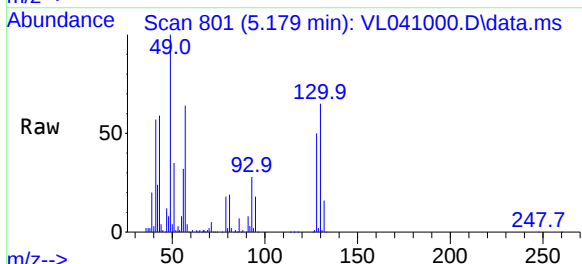
Ion	Ratio	Lower	Upper
43	100		
86	14.1	5.4	8.0#
42	53.5	8.6	13.0#
44	0.0	4.3	6.5#

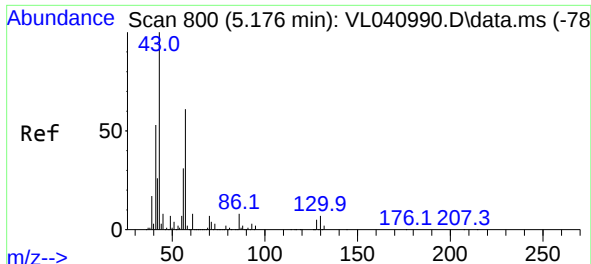


#25
Ethyl Acetate
Concen: 0.608 ppbv
RT: 5.179 min Scan# 801
Delta R.T. 0.013 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 43 Resp: 144603

Ion	Ratio	Lower	Upper
43	100		
45	6.9	8.2	12.4#
61	3.3	7.9	11.9#
70	3.0	5.4	8.2#



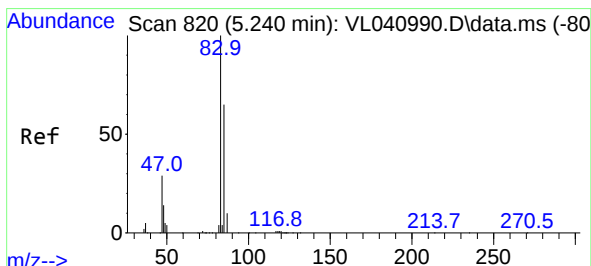
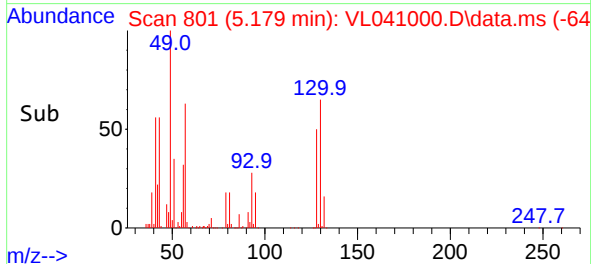
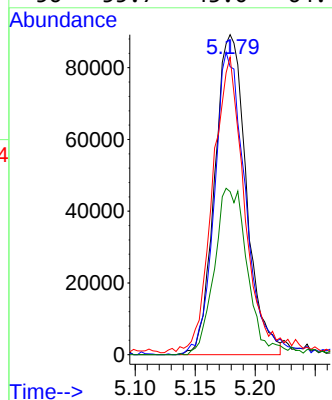
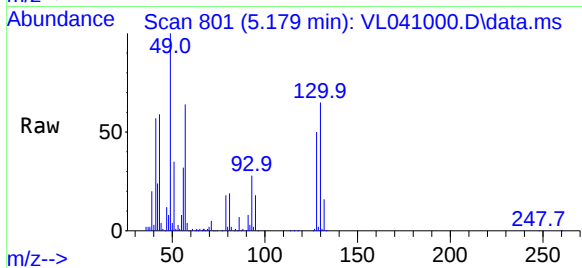


#26
Hexane
Concen: 1.612 ppbv
RT: 5.179 min Scan# 800
Delta R.T. 0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 163424

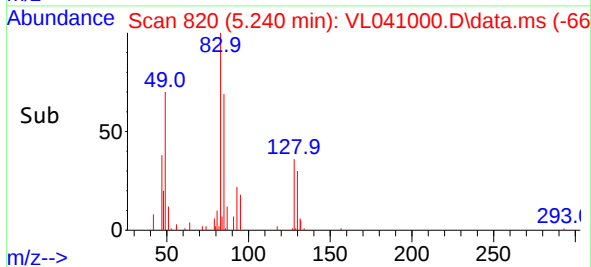
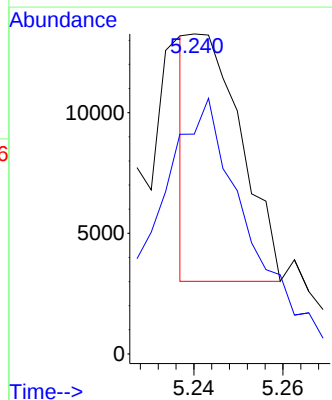
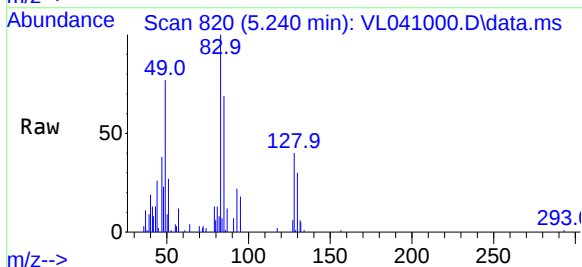
Ion	Ratio	Lower	Upper
57	100		
41	95.0	74.4	111.6
43	96.1	190.6	285.8
56	55.7	43.0	64.4

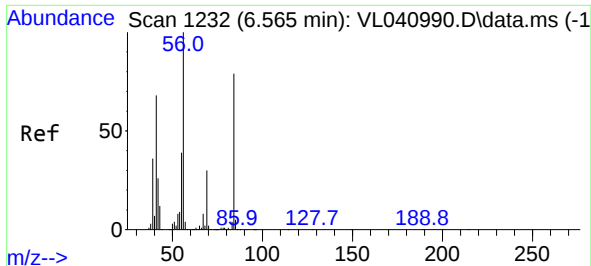


#29
Chloroform
Concen: 0.046 ppbv
RT: 5.240 min Scan# 820
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 83 Resp: 8274

Ion	Ratio	Lower	Upper
83	100		
85	56.8	51.6	77.4

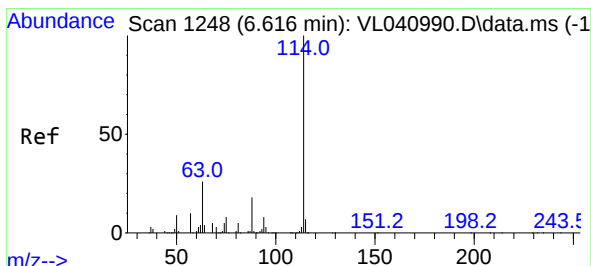
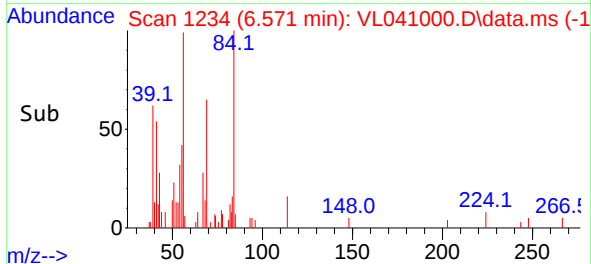
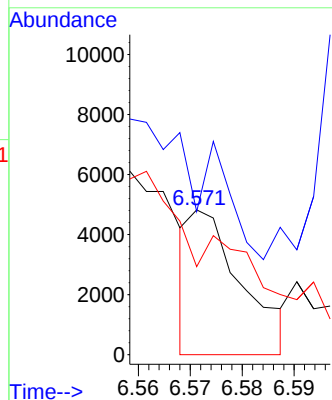
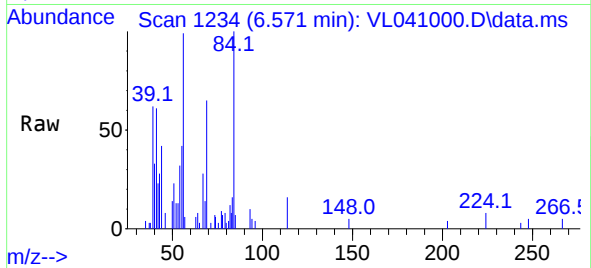




#30
Cyclohexane
Concen: 0.039 ppbv
RT: 6.571 min Scan# 1234
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

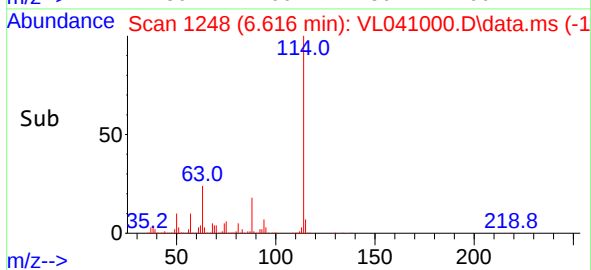
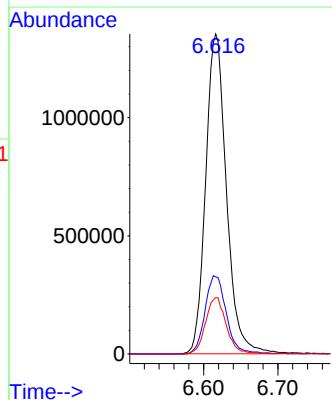
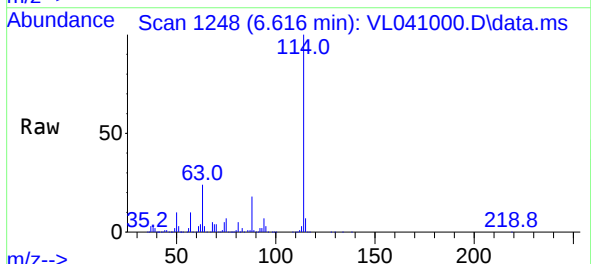
Instrument :
MSVOA_L
ClientSampleId :
IA1

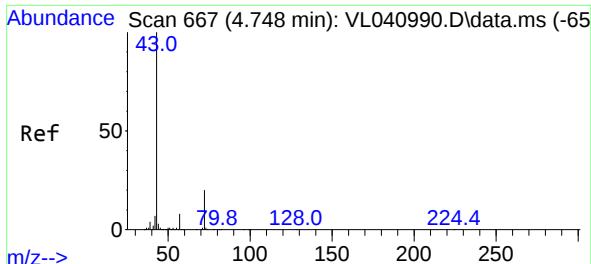
Tgt Ion: 84 Resp: 3348
Ion Ratio Lower Upper
84 100
56 0.0 111.7 167.5#
41 0.0 71.0 106.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.616 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 114 Resp: 2627949
Ion Ratio Lower Upper
114 100
63 25.2 20.8 31.2
88 17.7 14.3 21.5





#34

2-Butanone

Concen: 5.888 ppbv

RT: 4.748 min Scan# 6

Delta R.T. 0.000 min

Lab File: VL041000.D

Acq: 23 Jan 2024 17:26

Instrument :

MSVOA_L

ClientSampleId :

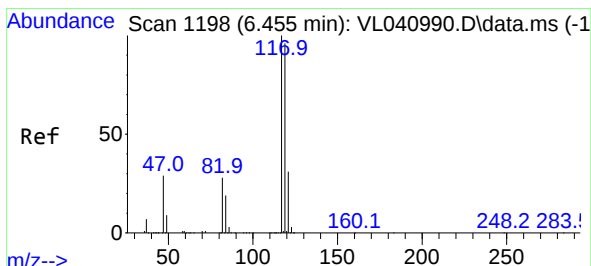
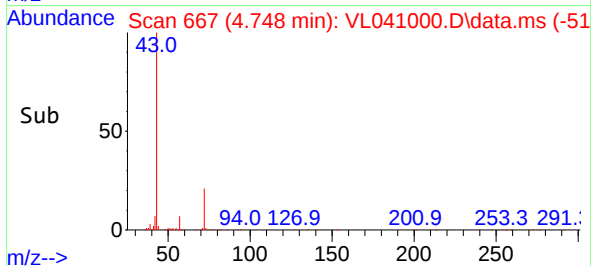
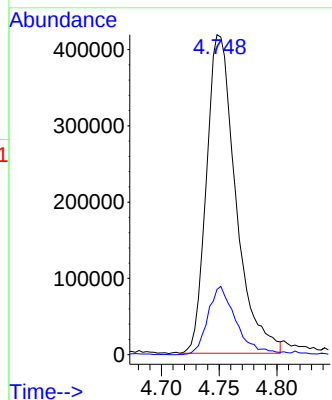
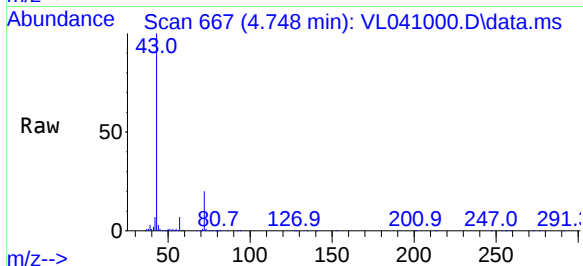
IA1

Tgt Ion: 43 Resp: 737208

Ion Ratio Lower Upper

43 100

72 21.4 17.5 26.3



#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 6.462 min Scan# 1200

Delta R.T. 0.006 min

Lab File: VL041000.D

Acq: 23 Jan 2024 17:26

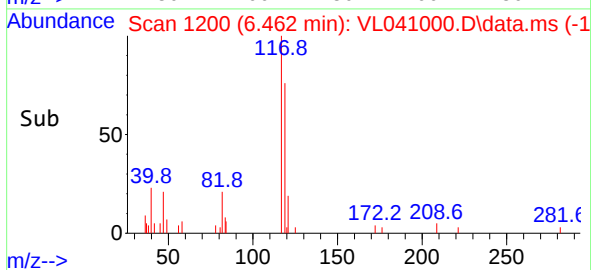
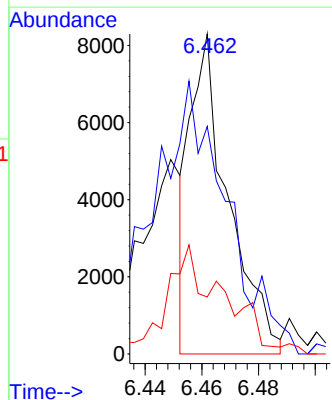
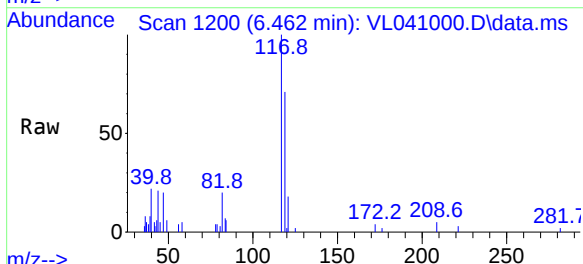
Tgt Ion: 117 Resp: 7772

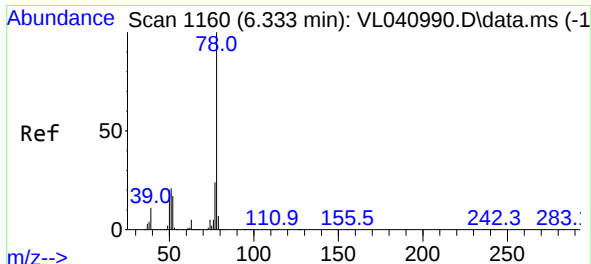
Ion Ratio Lower Upper

117 100

119 65.1 76.9 115.3#

121 16.4 24.7 37.1#

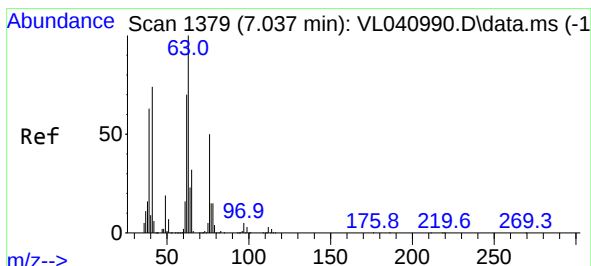
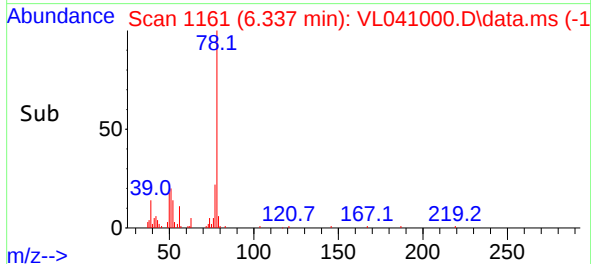
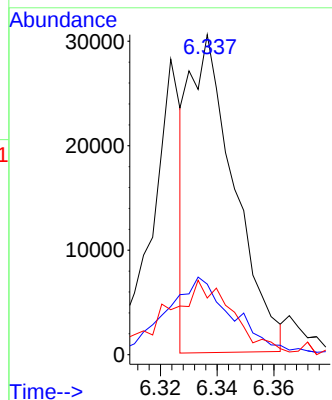
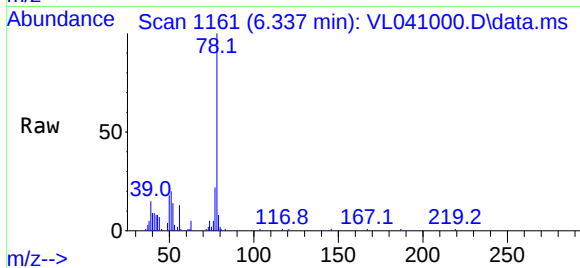




#36
Benzene
Concen: 0.156 ppbv
RT: 6.337 min Scan# 1160
Delta R.T. 0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

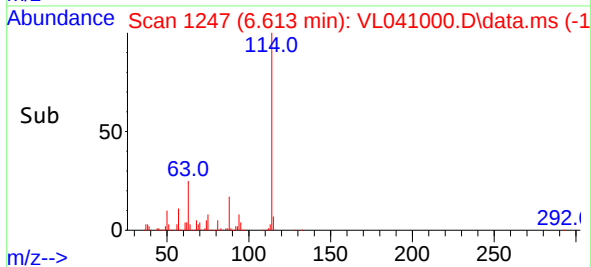
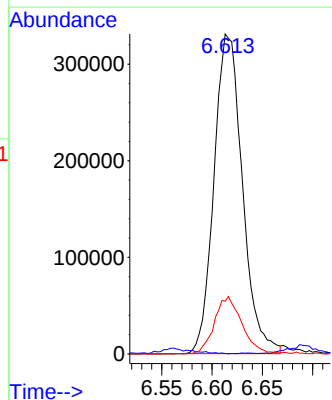
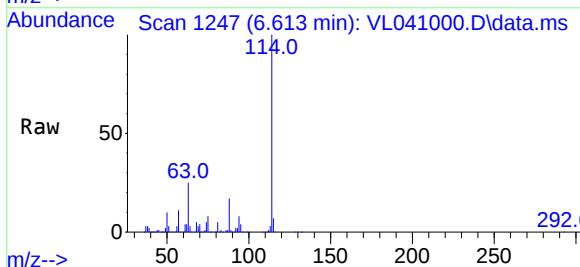
Instrument :
MSVOA_L
ClientSampleId :
IA1

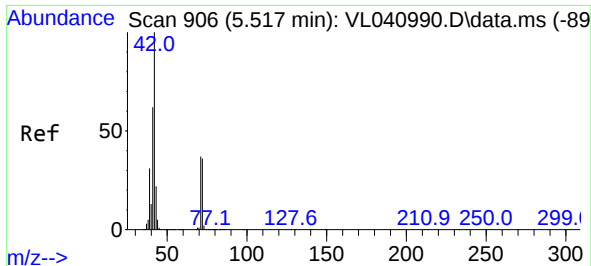
Tgt Ion: 78 Resp: 33778
Ion Ratio Lower Upper
78 100
77 21.1 19.0 28.4
50 17.5 15.8 23.6



#39
1,2-Dichloropropane
Concen: 7.603 ppbv
RT: 6.613 min Scan# 1247
Delta R.T. -0.424 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 63 Resp: 650030
Ion Ratio Lower Upper
63 100
41 0.0 59.6 89.4#
62 16.4 55.6 83.4#



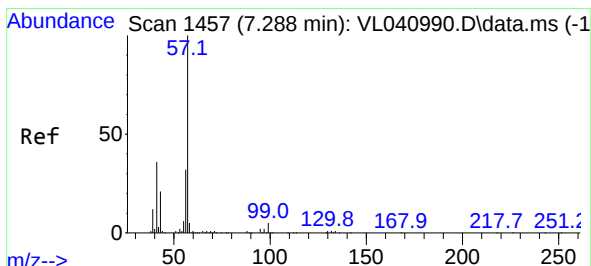
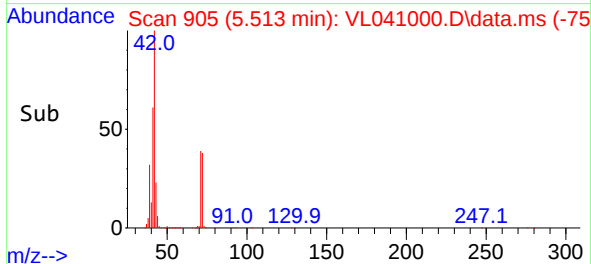
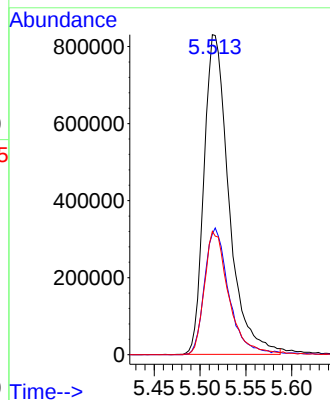
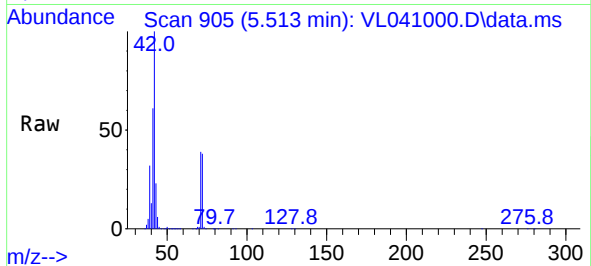


#41
Tetrahydrofuran
Concen: 18.447 ppbv
RT: 5.513 min Scan# 906
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 42 Resp: 1568130

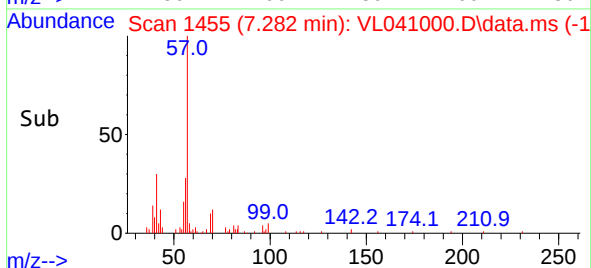
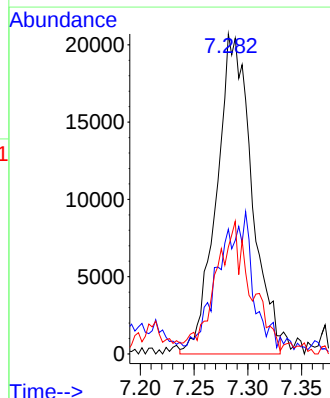
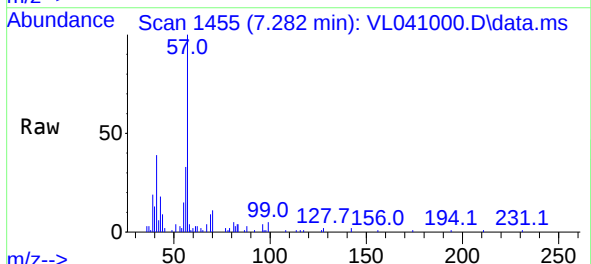
Ion	Ratio	Lower	Upper
42	100		
72	39.4	30.0	45.0
71	38.5	29.5	44.3

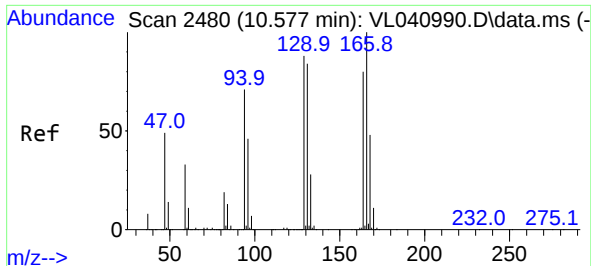


#44
2,2,4-Trimethylpentane
Concen: 0.129 ppbv
RT: 7.282 min Scan# 1455
Delta R.T. -0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 57 Resp: 47250

Ion	Ratio	Lower	Upper
57	100		
41	44.6	28.6	43.0#
56	44.9	25.2	37.8#

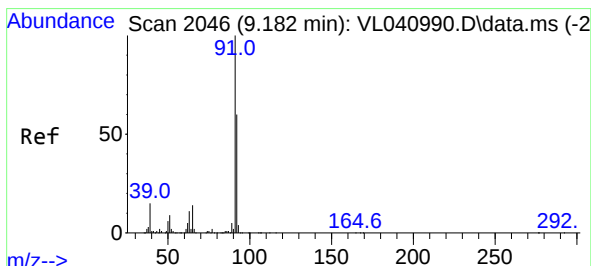
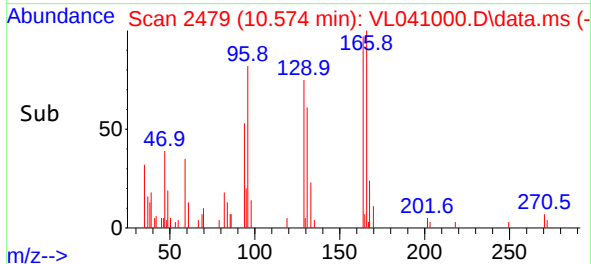
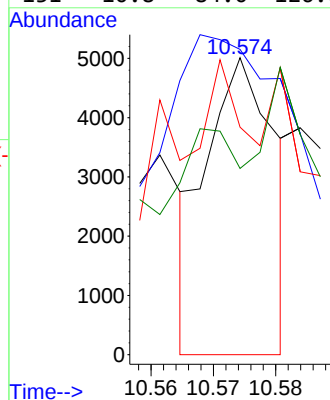
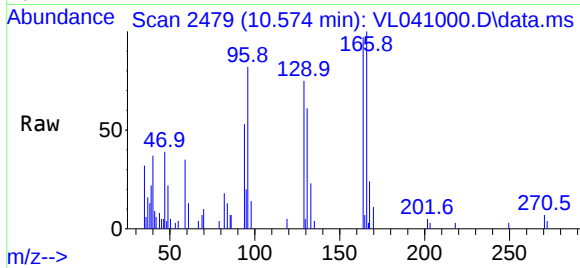




#52
Tetrachloroethene
Concen: 0.052 ppbv
RT: 10.574 min Scan# 2480
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

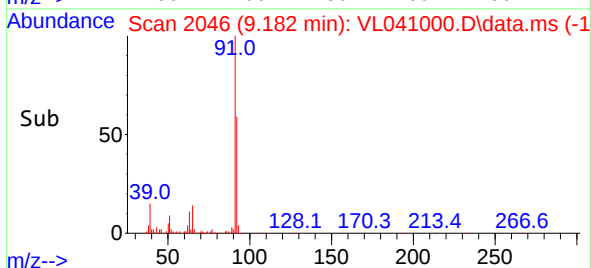
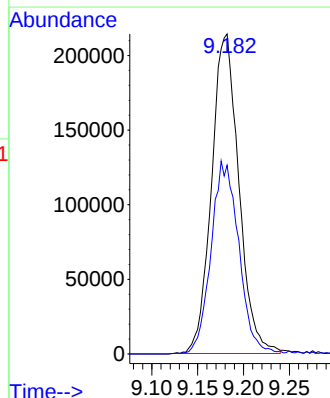
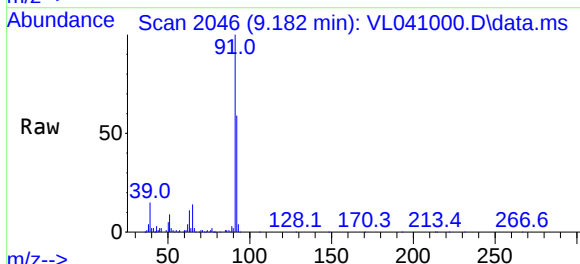
Instrument :
MSVOA_L
ClientSampleId :
IA1

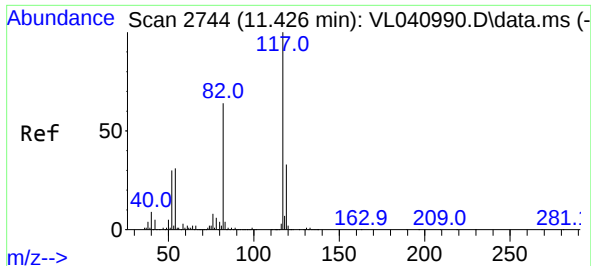
Tgt Ion:164 Resp: 3783
Ion Ratio Lower Upper
164 100
166 23.3 100.2 150.2#
129 36.7 87.9 131.9#
131 10.8 84.0 126.0#



#53
Toluene
Concen: 1.865 ppbv
RT: 9.182 min Scan# 2046
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 91 Resp: 443447
Ion Ratio Lower Upper
91 100
92 62.0 48.6 72.8

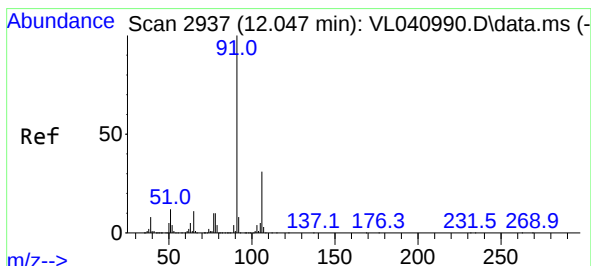
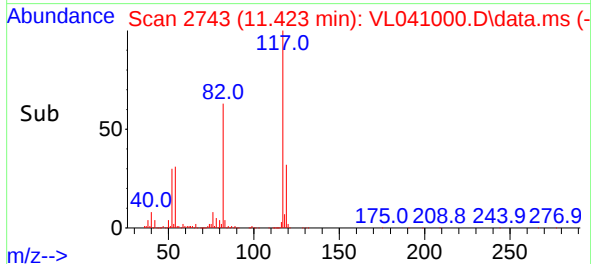
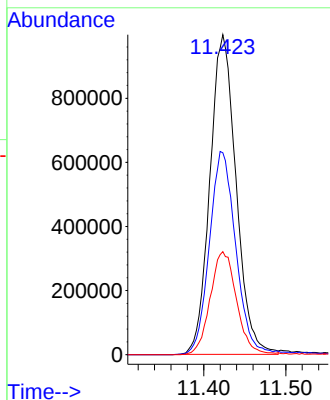
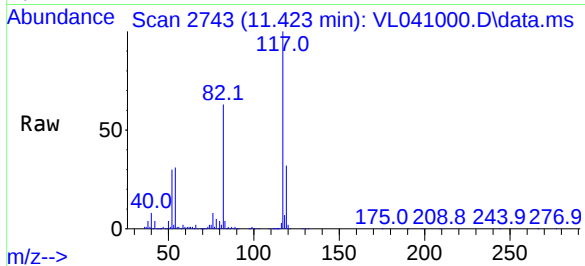




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.423 min Scan# 211
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

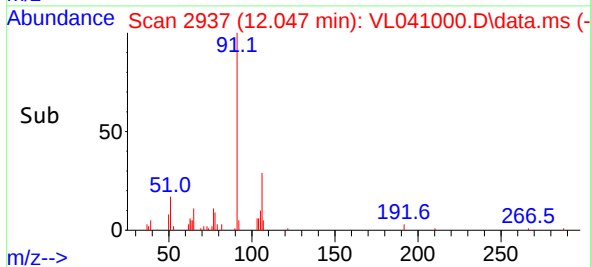
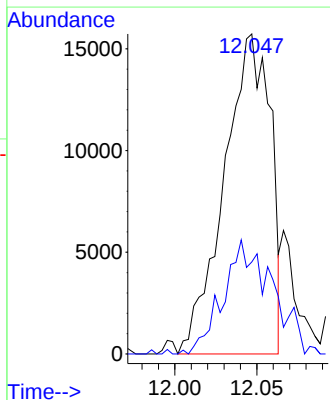
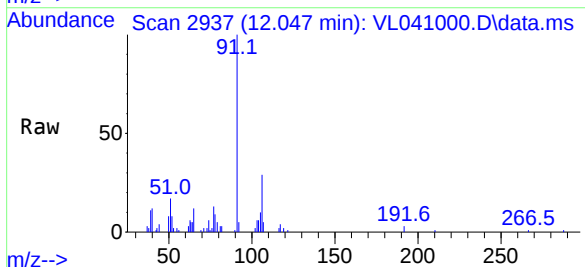
Instrument :
MSVOA_L
ClientSampleId :
IA1

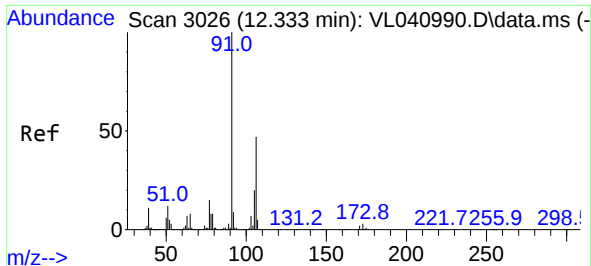
Tgt Ion:117 Resp: 2213183
Ion Ratio Lower Upper
117 100
82 65.1 51.7 77.5
119 32.9 23.8 35.6



#58
Ethyl Benzene
Concen: 0.104 ppbv
RT: 12.047 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 91 Resp: 30791
Ion Ratio Lower Upper
91 100
106 28.8 24.8 37.2





#59

m/p-Xylene

Concen: 0.037 ppbv

RT: 12.333 min Scan# 3026

Delta R.T. 0.000 min

Lab File: VL041000.D

Acq: 23 Jan 2024 17:26

Instrument :

MSVOA_L

ClientSampleId :

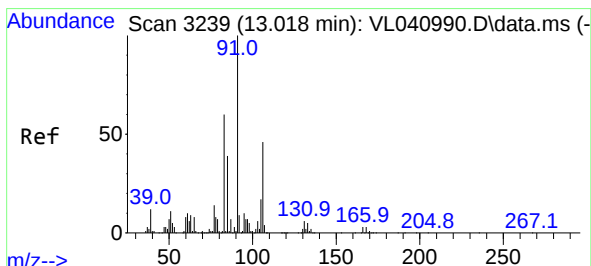
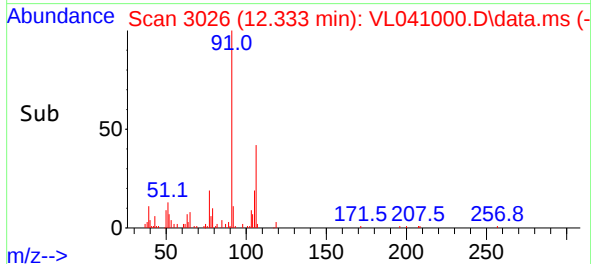
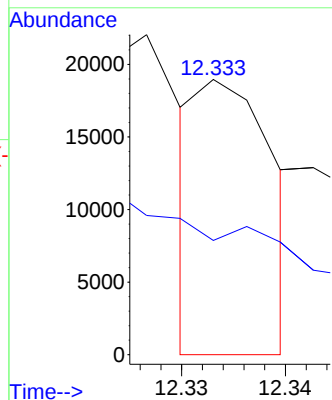
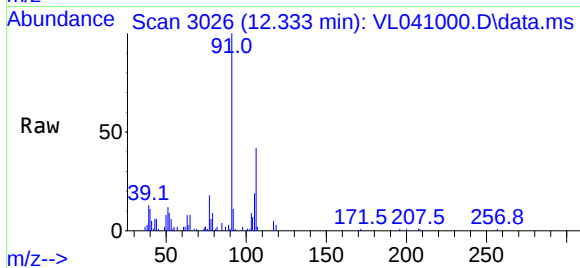
IA1

Tgt Ion: 91 Resp: 9503

Ion Ratio Lower Upper

91 100

106 0.0 34.9 52.3#



#60

o-Xylene

Concen: 0.109 ppbv

RT: 13.018 min Scan# 3239

Delta R.T. 0.000 min

Lab File: VL041000.D

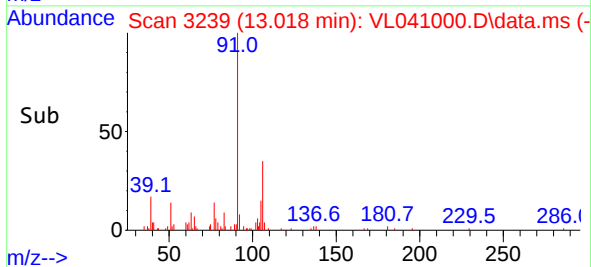
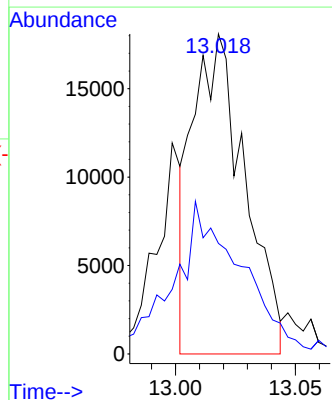
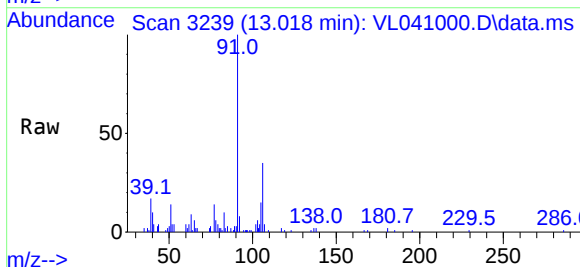
Acq: 23 Jan 2024 17:26

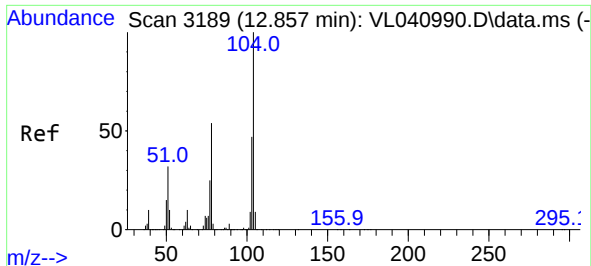
Tgt Ion: 91 Resp: 27117

Ion Ratio Lower Upper

91 100

106 63.3 22.6 67.7

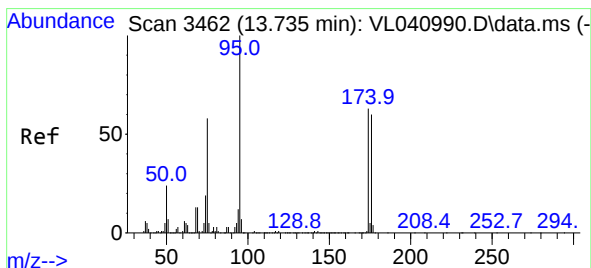
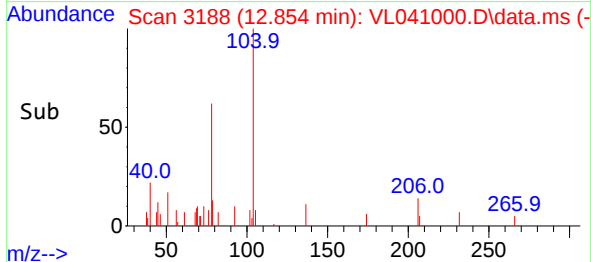
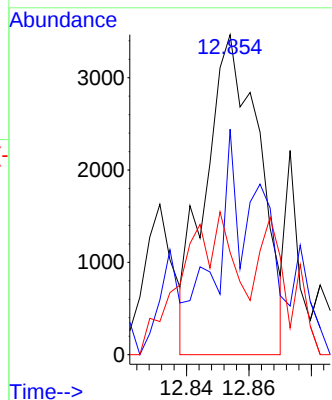
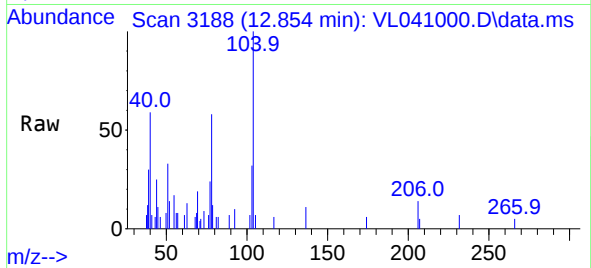




#61
Styrene
Concen: 0.037 ppbv
RT: 12.854 min Scan# 3189
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

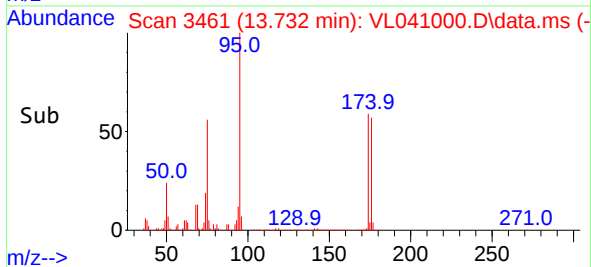
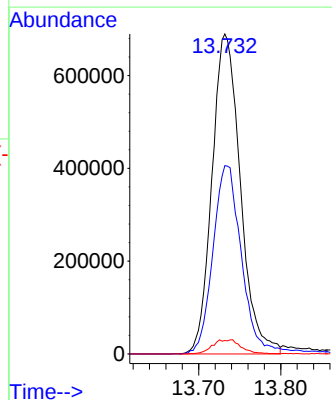
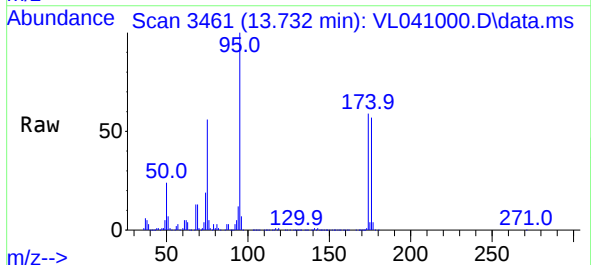
Instrument :
MSVOA_L
ClientSampleId :
IA1

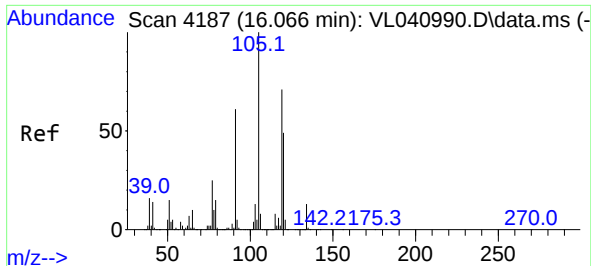
Tgt Ion:104 Resp: 4182
Ion Ratio Lower Upper
104 100
78 81.4 42.7 64.1#
103 69.3 37.6 56.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.922 ppbv
RT: 13.732 min Scan# 3461
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 95 Resp: 1658588
Ion Ratio Lower Upper
95 100
174 60.8 49.1 73.7
175 4.5 3.7 5.5

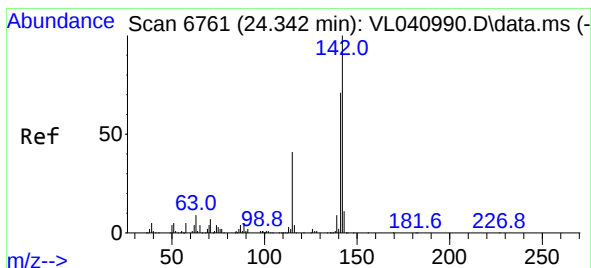
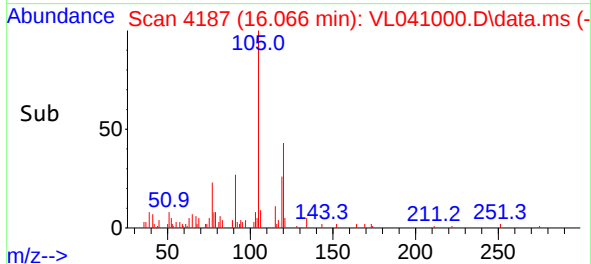
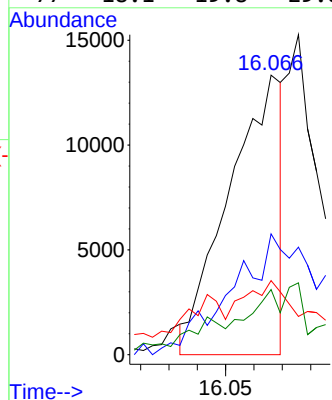
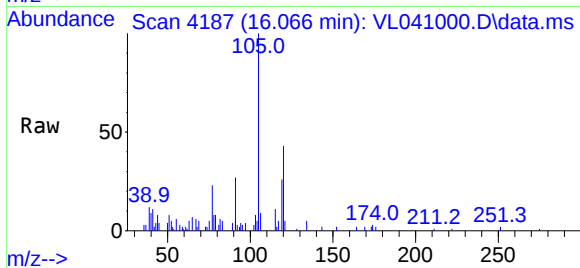




#74
1,2,4-Trimethylbenzene
Concen: 0.062 ppbv
RT: 16.066 min Scan# 4187
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:	105	Resp:	17316
Ion	Ratio	Lower	Upper
105	100		
120	50.1	39.3	58.9
91	15.6	48.7	73.1#
77	18.1	19.8	29.8#



#80
Naphthalene,2-methyl-
Concen: 0.364 ppbv
RT: 24.339 min Scan# 6760
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion:	142	Resp:	10178
Ion	Ratio	Lower	Upper
142	100		
141	54.0	62.7	94.1#
115	39.1	34.0	51.0

