

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041271.D
 Acq On : 21 May 2024 18:56
 Operator : SY/MD
 Sample : P2534-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: May 22 05:47:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 22 05:39:49 2024
 Response via : Initial Calibration

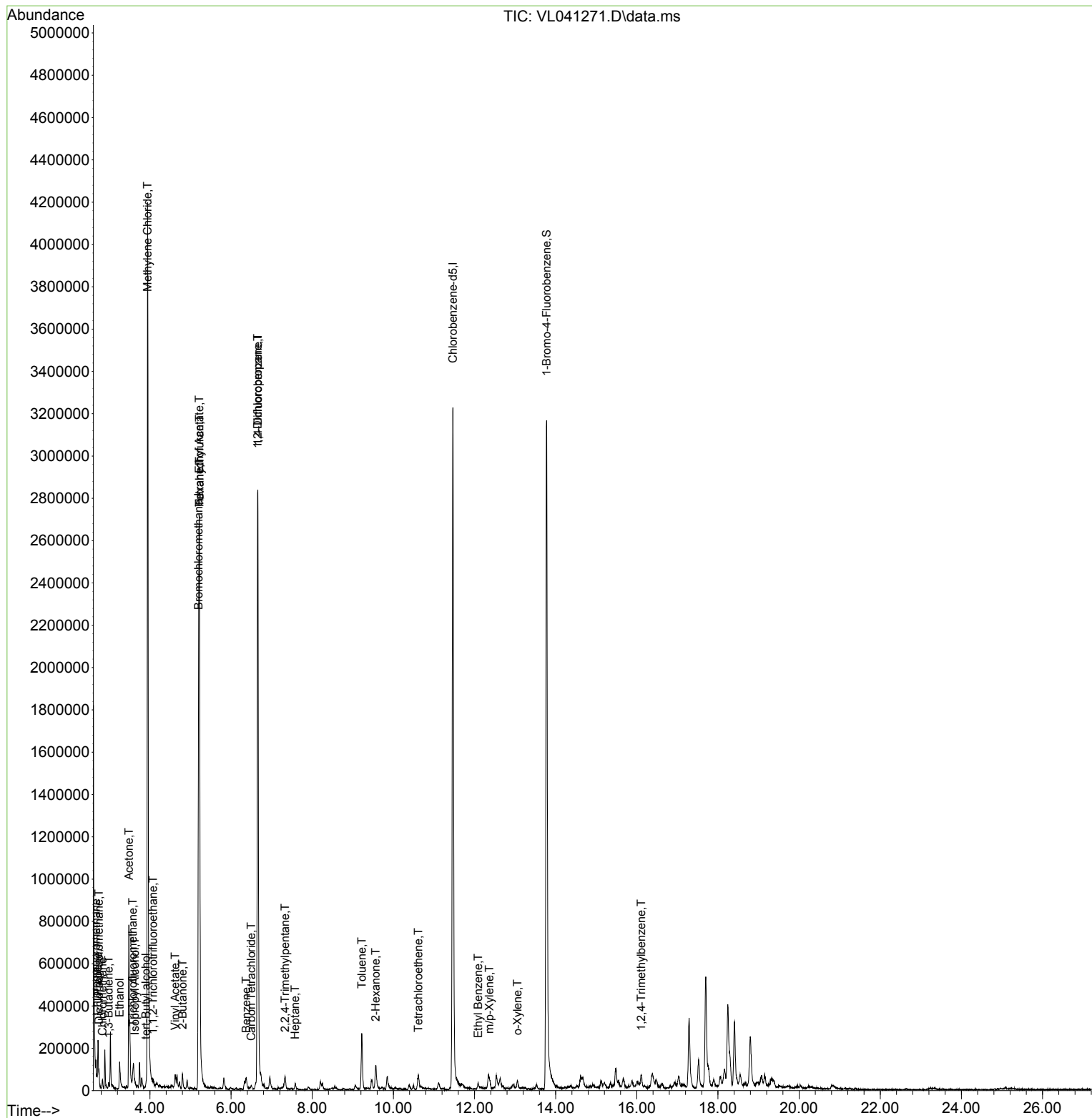
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.198	49	868062	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2181233	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2140083	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1608323	9.955	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.745	85	40657	0.346	ppbv	90
3) Chlorodifluoromethane	2.668	51	82576	0.626	ppbv #	83
4) Chloromethane	2.832	50	31983	0.618	ppbv	94
9) Propene	2.719	41	52437	1.016	ppbv #	76
10) Heptane	7.577	43	7218	0.058	ppbv #	29
11) Trichlorofluoromethane	3.578	101	27938	0.234	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.076	101	3255	0.037	ppbv #	1
13) Ethanol	3.253	45	132737	11.476	ppbv	99
15) Acetone	3.481	43	830894	8.110	ppbv	98
16) 1,3-Butadiene	2.983	39	10009	0.194	ppbv #	36
17) tert-Butyl alcohol	3.899	59	12495	0.113	ppbv #	91
19) Isopropyl Alcohol	3.626	45	6243	0.093	ppbv #	41
20) Methylene Chloride	3.944	84	1352269	37.958	ppbv	97
23) Vinyl Acetate	4.623	43	46873	0.416	ppbv #	70
25) Ethyl Acetate	5.217	43	642487	3.142	ppbv #	78
26) Hexane	5.221	57	907231	9.942	ppbv #	41
34) 2-Butanone	4.803	43	78604	0.708	ppbv	97
35) Carbon Tetrachloride	6.494	117	5075	0.041	ppbv #	47
36) Benzene	6.375	78	33286	0.182	ppbv #	78
39) 1,2-Dichloropropane	6.655	63	554714	7.863	ppbv #	24
41) Tetrahydrofuran	5.221	42	338038	4.206	ppbv #	52
44) 2,2,4-Trimethylpentane	7.330	57	50303	0.159	ppbv #	75
51) 2-Hexanone	9.561	43	45945	0.311	ppbv #	5
52) Tetrachloroethene	10.616	164	11937	0.186	ppbv #	67
53) Toluene	9.220	91	187207	0.882	ppbv	100
58) Ethyl Benzene	12.088	91	12154	0.041	ppbv	90
59) m/p-Xylene	12.365	91	25334	0.103	ppbv #	31
60) o-Xylene	13.056	91	16736	0.072	ppbv #	53
74) 1,2,4-Trimethylbenzene	16.104	105	45691	0.177	ppbv #	64

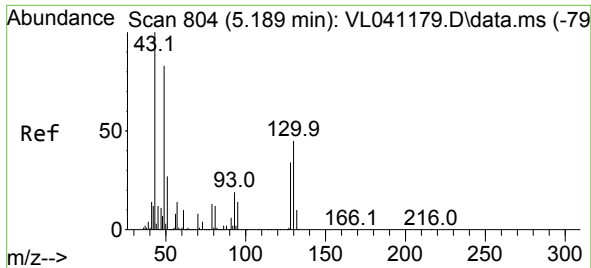
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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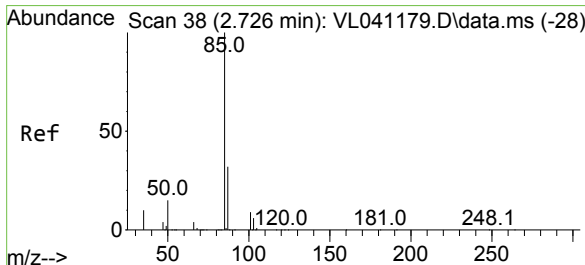
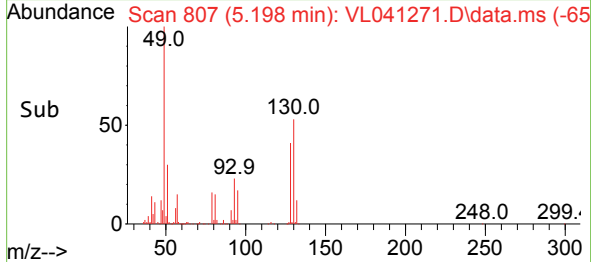
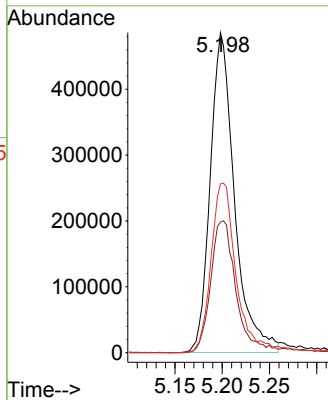
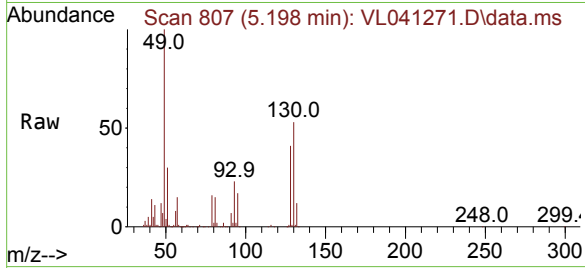




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

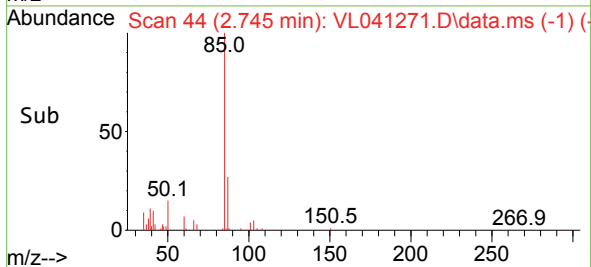
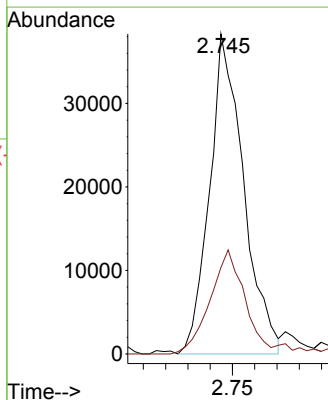
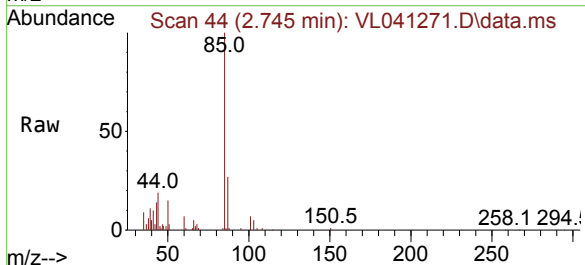
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

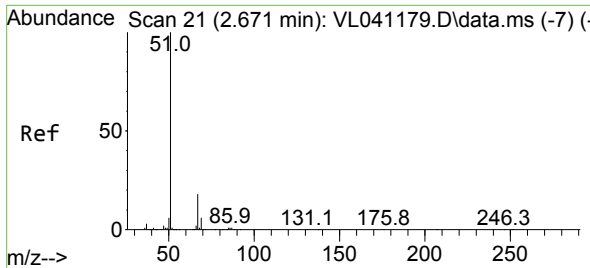
Tgt Ion: 49 Resp: 868062
 Ion Ratio Lower Upper
 49 100
 128 44.4 21.5 64.5
 130 56.5 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.346 ppbv
 RT: 2.745 min Scan# 44
 Delta R.T. -0.003 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

Tgt Ion: 85 Resp: 40657
 Ion Ratio Lower Upper
 85 100
 87 26.3 25.7 38.5

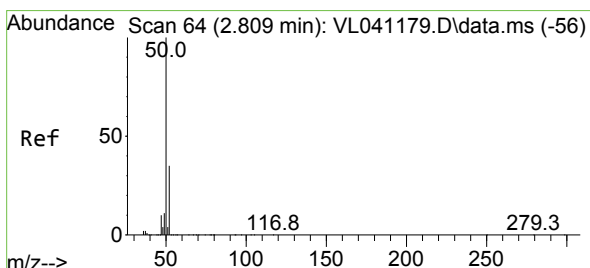
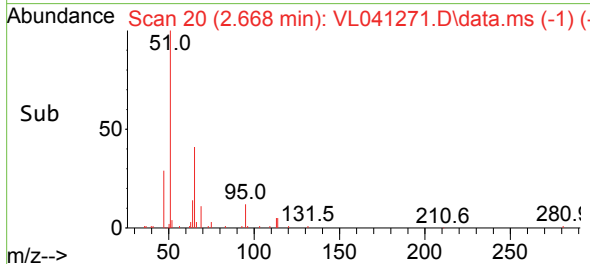
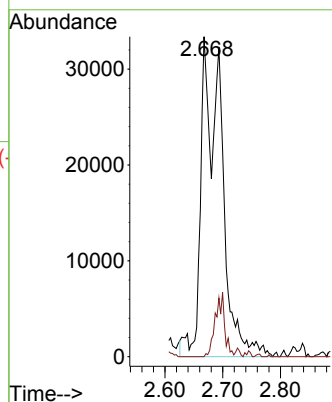
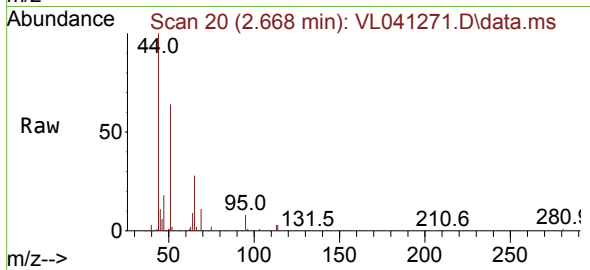




#3
Chlorodifluoromethane
Concen: 0.626 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.026 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

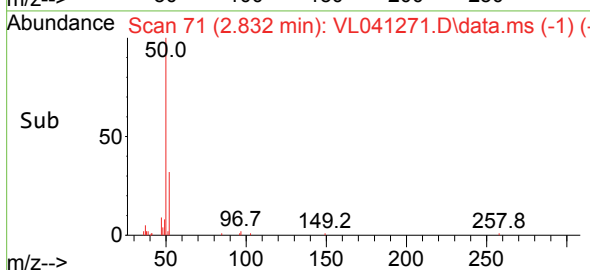
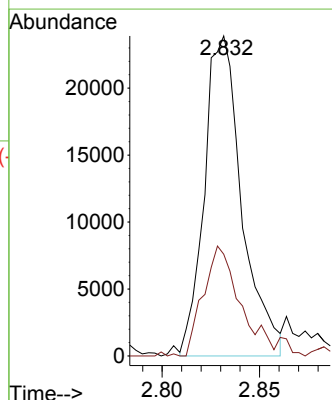
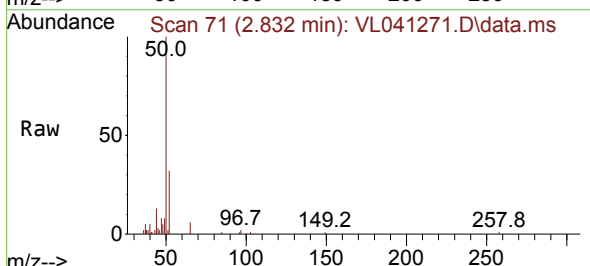
Instrument :
MSVOA_L
ClientSampleId :
IA1

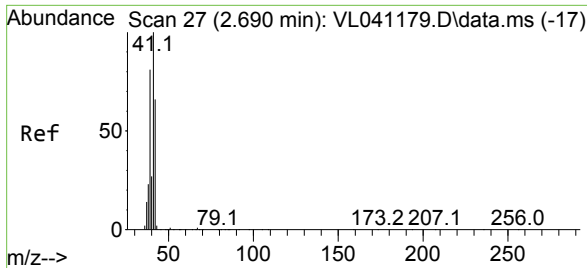
Tgt Ion: 51 Resp: 82576
Ion Ratio Lower Upper
51 100
67 10.0 14.0 21.0#



#4
Chloromethane
Concen: 0.618 ppbv
RT: 2.832 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 50 Resp: 31983
Ion Ratio Lower Upper
50 100
52 32.2 28.3 42.5

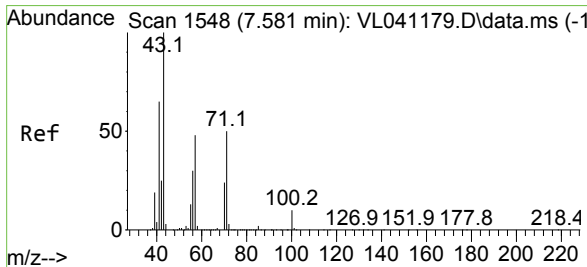
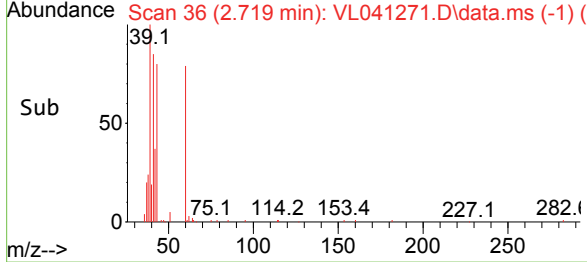
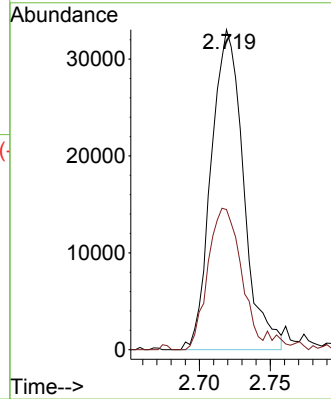
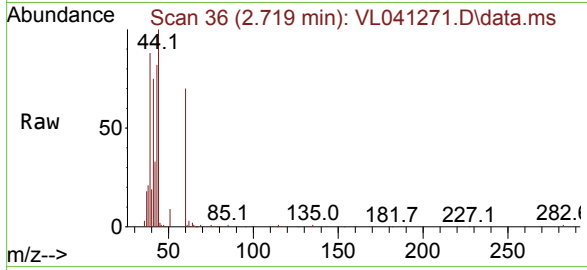




#9
 Propene
 Concen: 1.016 ppbv
 RT: 2.719 min Scan# 30
 Delta R.T. 0.006 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

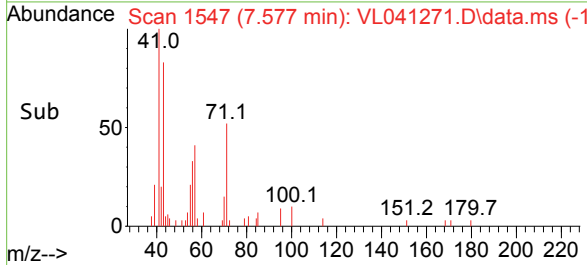
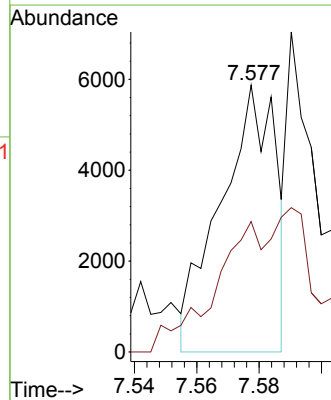
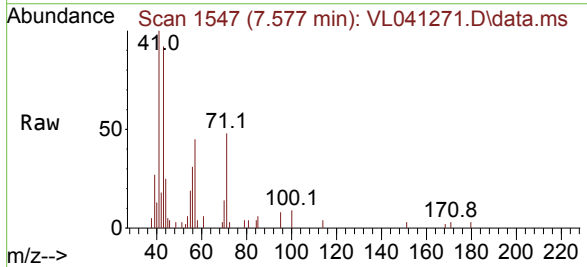
Instrument :
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 ClientSampleId :
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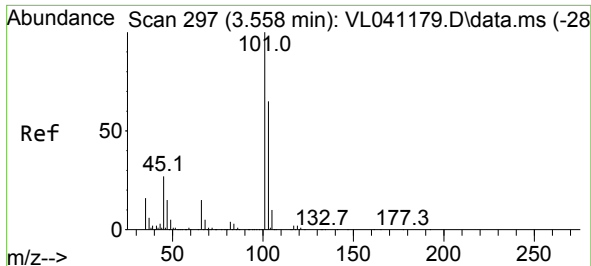
Tgt Ion: 41 Resp: 52437
 Ion Ratio Lower Upper
 41 100
 42 49.5 55.3 82.9#



#10
 Heptane
 Concen: 0.058 ppbv
 RT: 7.577 min Scan# 1547
 Delta R.T. -0.007 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

Tgt Ion: 43 Resp: 7218
 Ion Ratio Lower Upper
 43 100
 57 0.0 38.7 58.1#

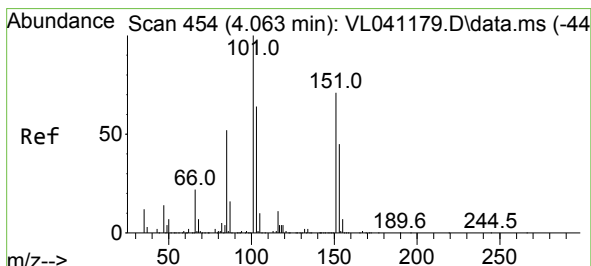
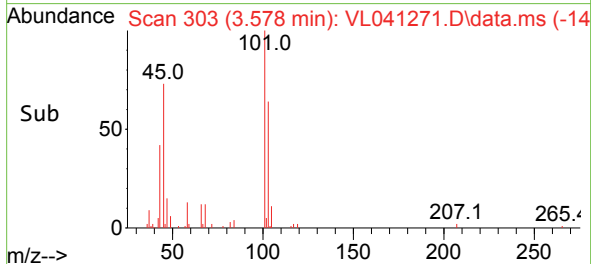
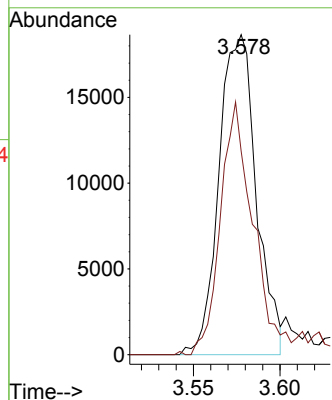
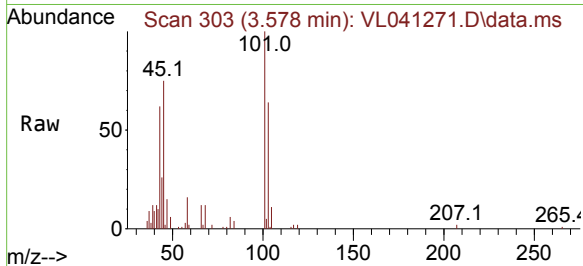




#11
 Trichlorofluoromethane
 Concen: 0.234 ppbv
 RT: 3.578 min Scan# 303
 Delta R.T. 0.003 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

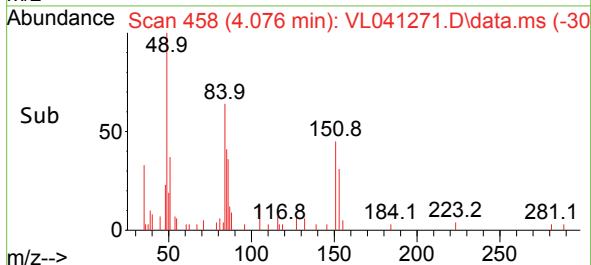
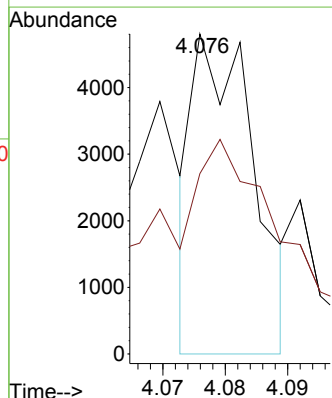
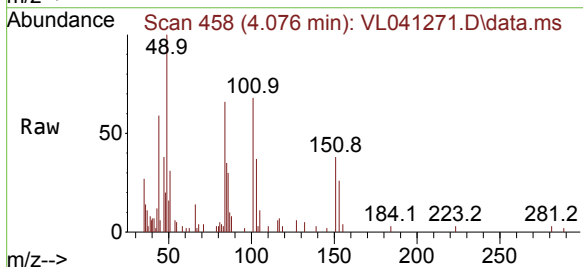
Instrument :
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 ClientSampleId :
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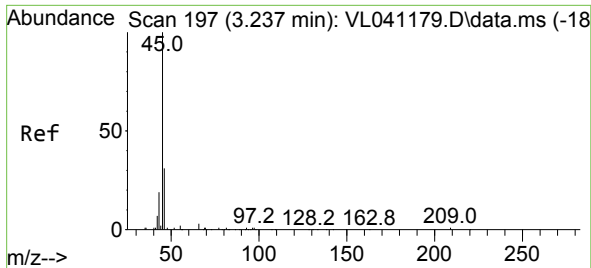
Tgt Ion:101 Resp: 27938
 Ion Ratio Lower Upper
 101 100
 103 62.6 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.037 ppbv
 RT: 4.076 min Scan# 458
 Delta R.T. -0.000 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

Tgt Ion:101 Resp: 3255
 Ion Ratio Lower Upper
 101 100
 151 159.6 56.8 85.2#

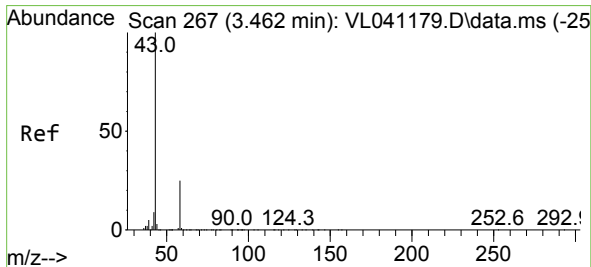
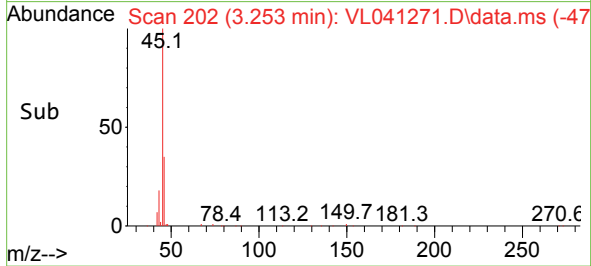
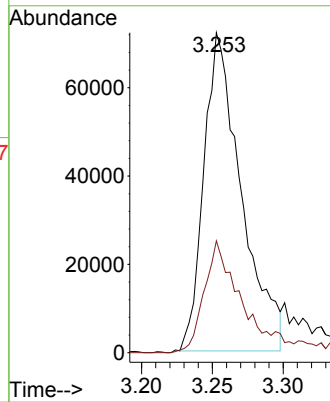
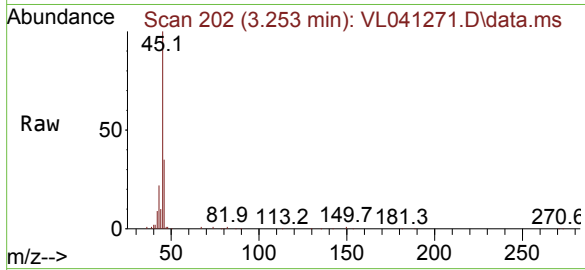




#13
Ethanol
Concen: 11.476 ppbv
RT: 3.253 min Scan# 20
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

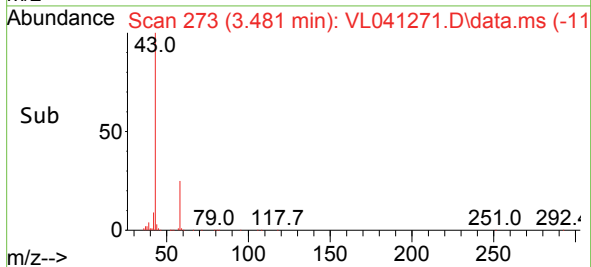
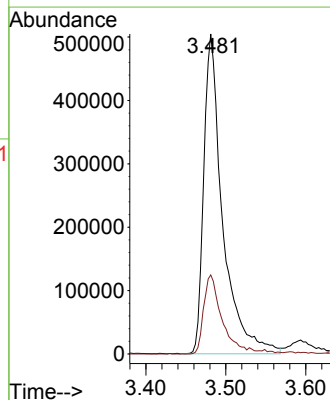
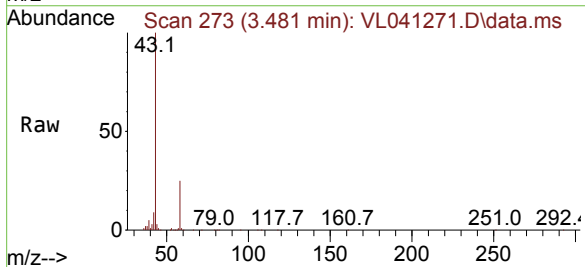
Instrument :
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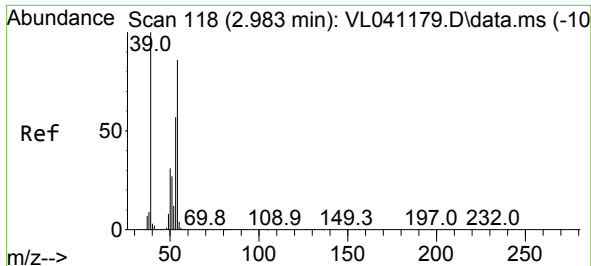
Tgt Ion: 45 Resp: 132737
Ion Ratio Lower Upper
45 100
46 37.4 14.8 59.0



#15
Acetone
Concen: 8.110 ppbv
RT: 3.481 min Scan# 273
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 43 Resp: 830894
Ion Ratio Lower Upper
43 100
58 25.9 21.4 32.0

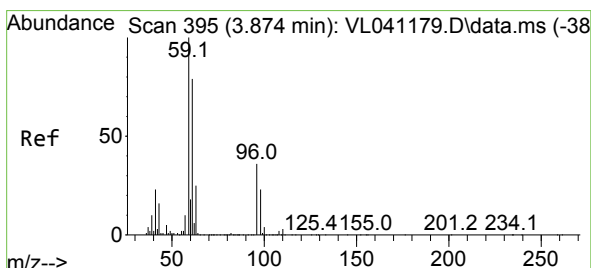
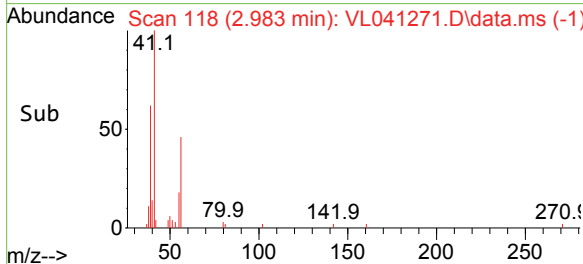
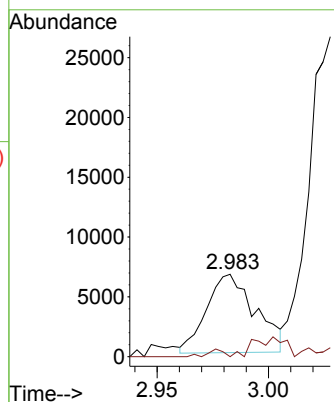
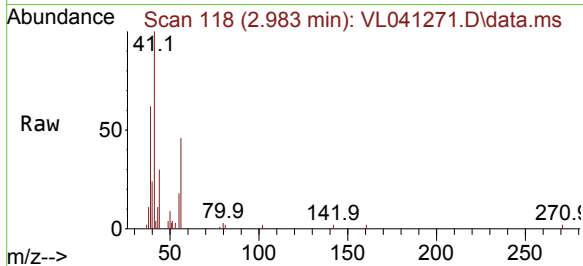




#16
1,3-Butadiene
Concen: 0.194 ppbv
RT: 2.983 min Scan# 118
Delta R.T. -0.019 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

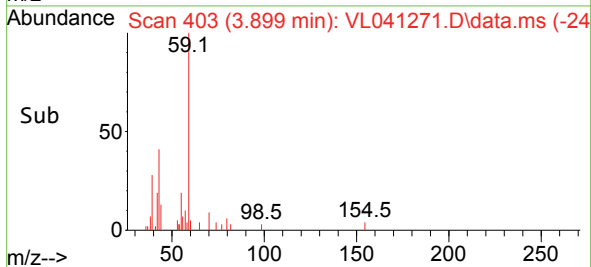
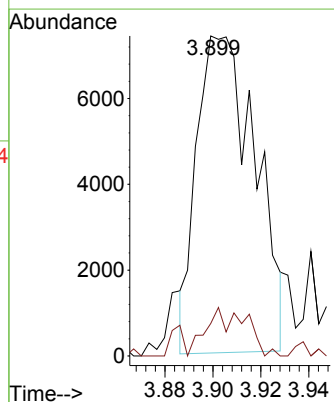
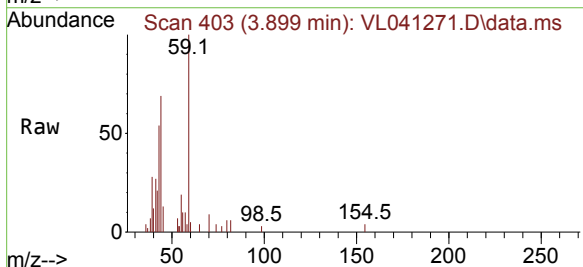
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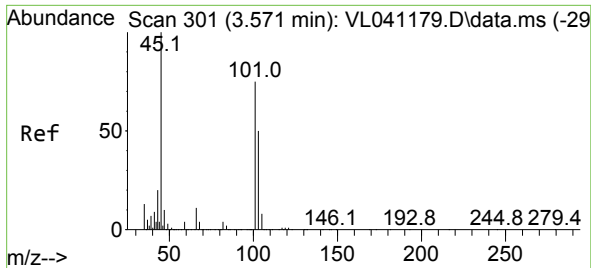
Tgt Ion: 39 Resp: 10009
Ion Ratio Lower Upper
39 100
54 22.0 62.2 93.4#



#17
tert-Butyl alcohol
Concen: 0.113 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.013 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 59 Resp: 12495
Ion Ratio Lower Upper
59 100
57 14.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.093 ppbv

RT: 3.626 min Scan# 318

Delta R.T. 0.038 min

Lab File: VL041271.D

Acq: 21 May 2024 18:56

Instrument :

MSVOA_L

ClientSampleId :

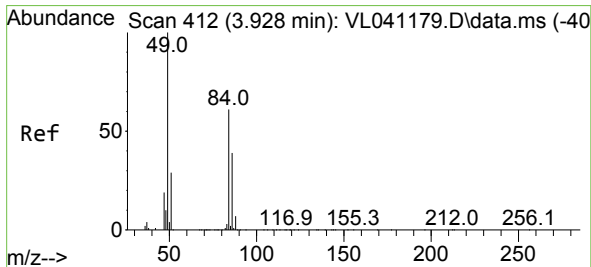
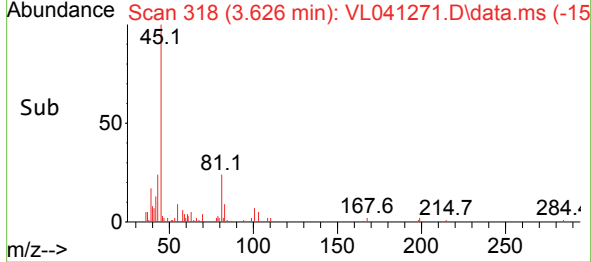
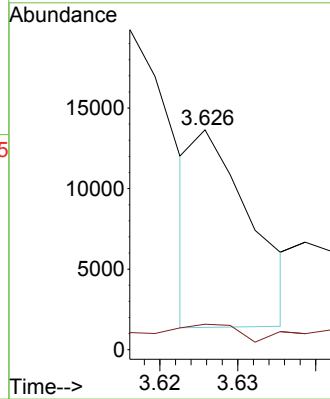
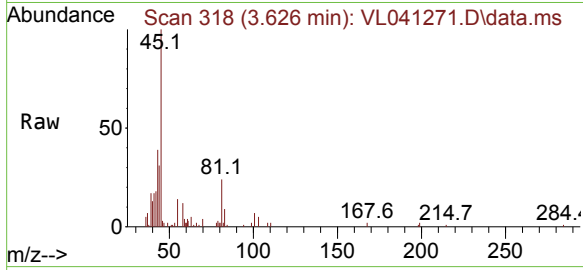
IA1

Tgt Ion: 45 Resp: 6243

Ion Ratio Lower Upper

45 100

58 0.0 26.8 40.2#



#20

Methylene Chloride

Concen: 37.958 ppbv

RT: 3.944 min Scan# 417

Delta R.T. -0.000 min

Lab File: VL041271.D

Acq: 21 May 2024 18:56

Tgt Ion: 84 Resp: 1352269

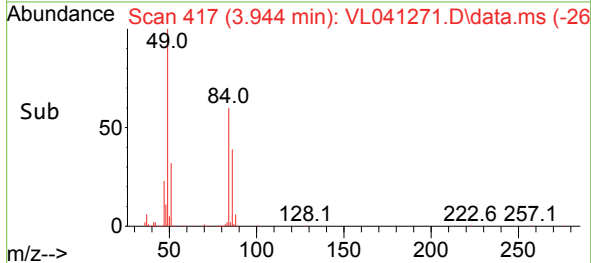
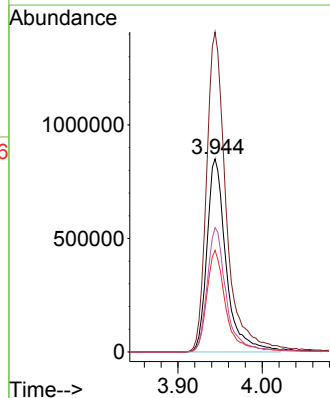
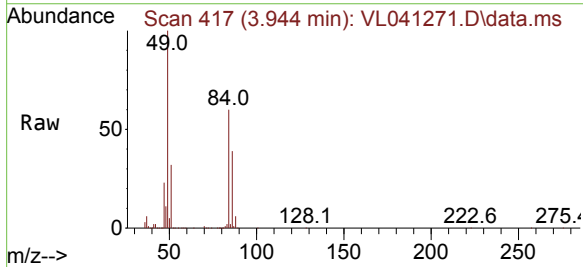
Ion Ratio Lower Upper

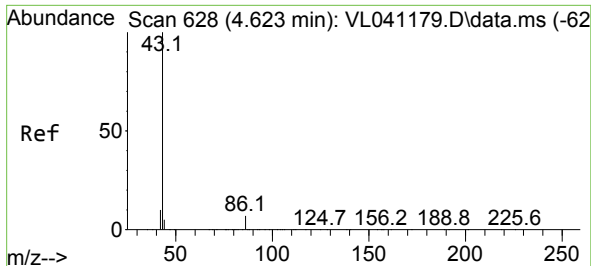
84 100

49 165.7 130.4 195.6

51 52.6 38.0 57.0

86 64.4 50.3 75.5

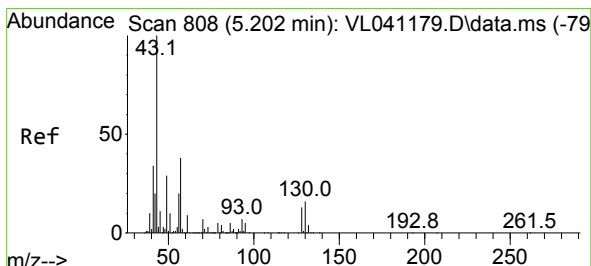
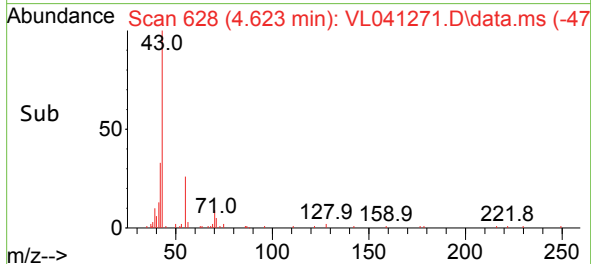
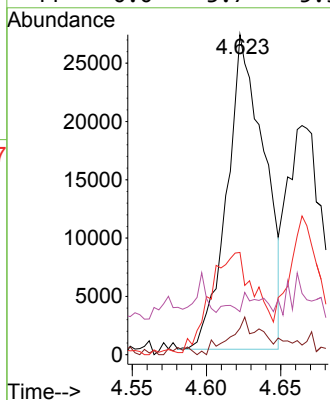
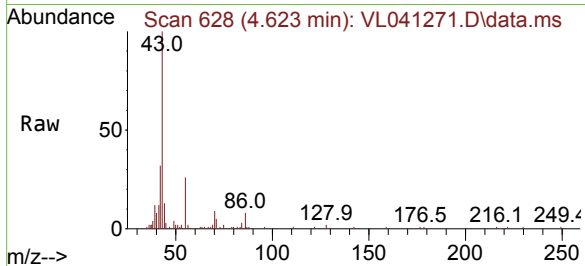




#23
 Vinyl Acetate
 Concen: 0.416 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

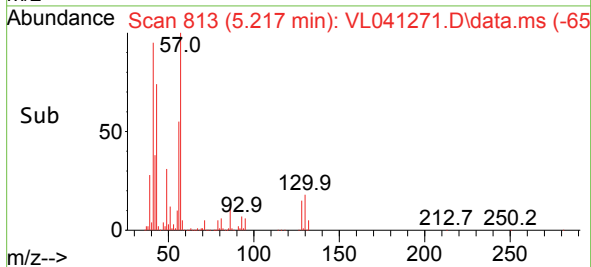
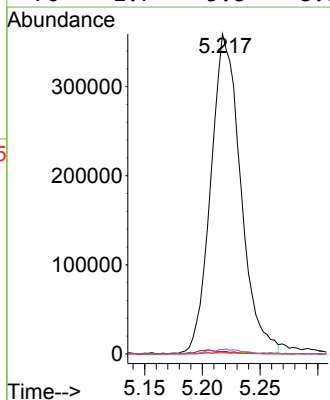
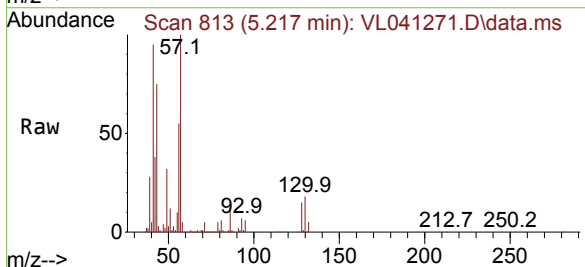
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

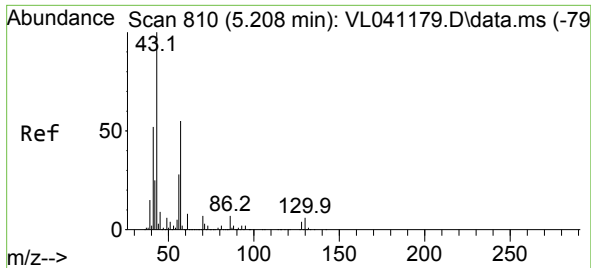
Tgt Ion:	43	Resp:	46873
Ion	Ratio	Lower	Upper
43	100		
86	6.7	4.9	7.3
42	30.1	8.0	12.0#
44	0.0	3.7	5.5#



#25
 Ethyl Acetate
 Concen: 3.142 ppbv
 RT: 5.217 min Scan# 813
 Delta R.T. 0.006 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

Tgt Ion:	43	Resp:	642487
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.2	12.2#
61	0.6	7.7	11.5#
70	1.7	5.8	8.6#



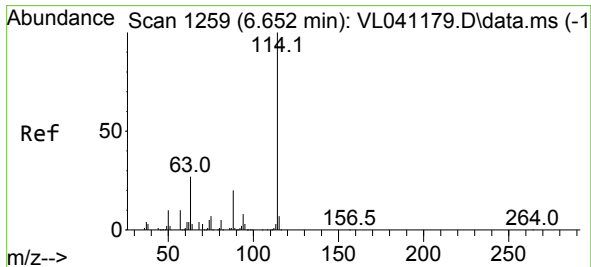
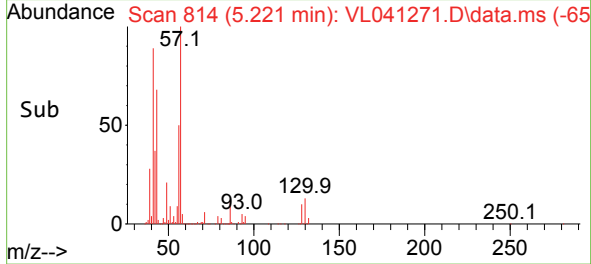
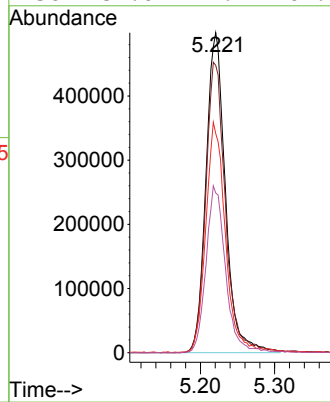
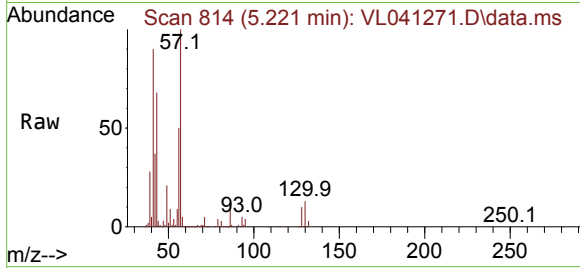


#26
Hexane
Concen: 9.942 ppbv
RT: 5.221 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 907231

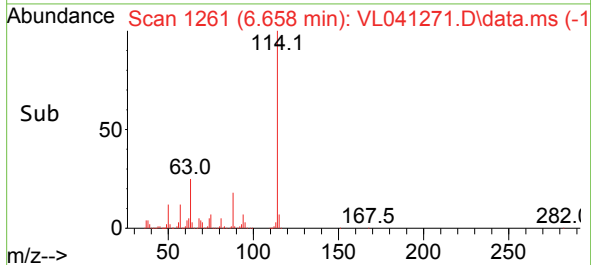
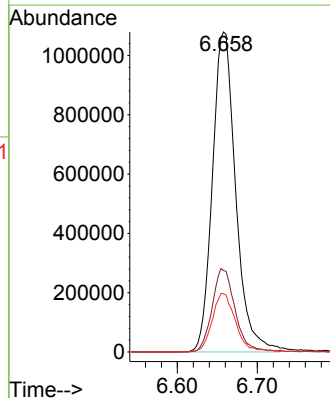
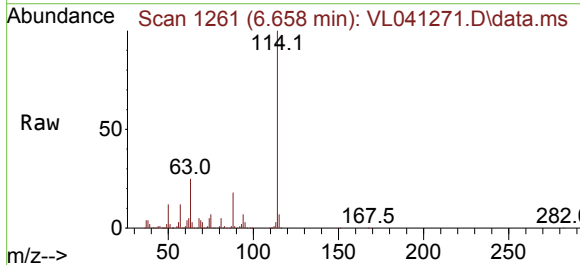
Ion	Ratio	Lower	Upper
57	100		
41	92.9	75.8	113.8
43	73.4	187.0	280.4#
56	52.6	42.7	64.1

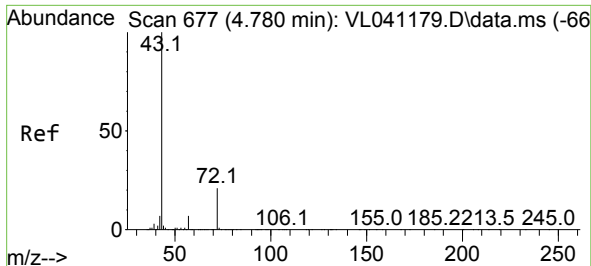


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 114 Resp: 2181233

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	18.5	15.2	22.8

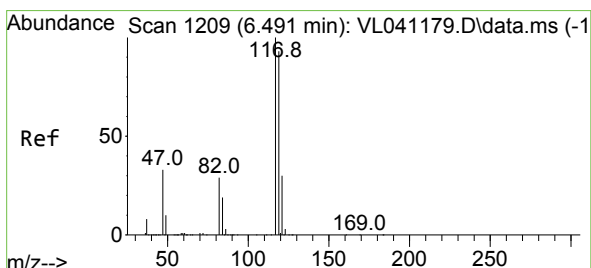
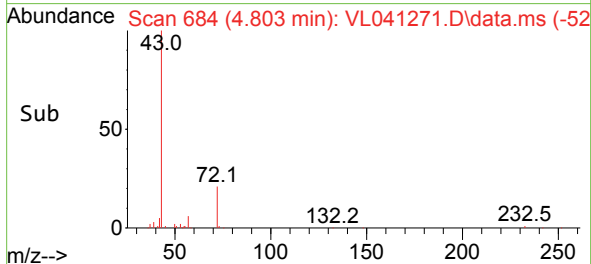
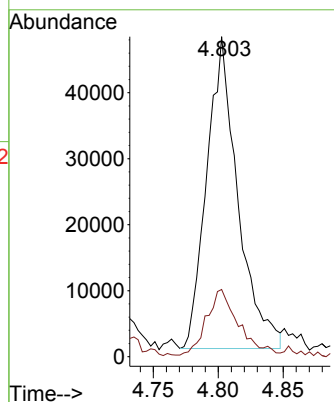
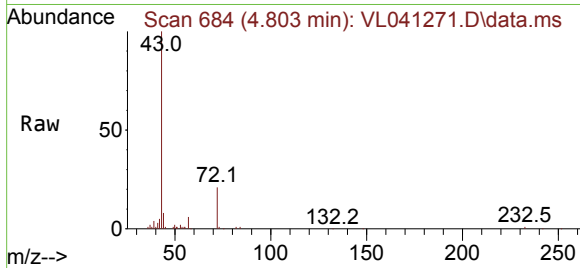




#34
2-Butanone
Concen: 0.708 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.009 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

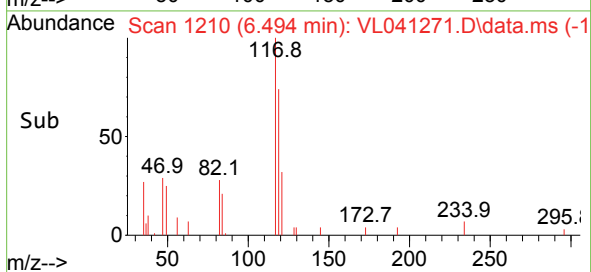
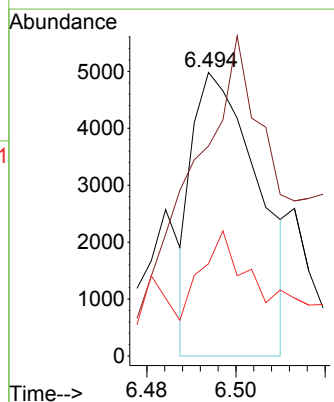
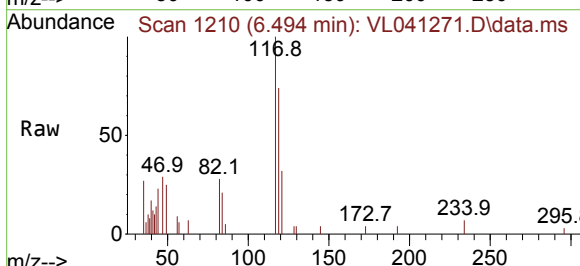
Instrument :
MSVOA_L
ClientSampleId :
IA1

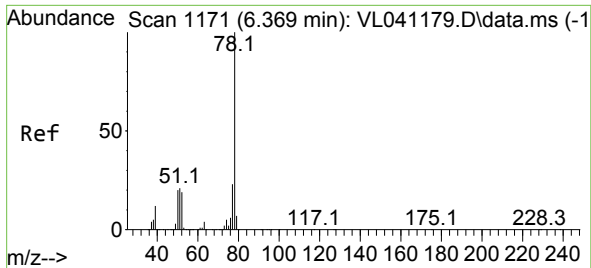
Tgt Ion: 43 Resp: 78604
Ion Ratio Lower Upper
43 100
72 23.0 17.3 25.9



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 6.494 min Scan# 1210
Delta R.T. -0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 117 Resp: 5075
Ion Ratio Lower Upper
117 100
119 27.7 74.3 111.5#
121 32.2 23.8 35.8

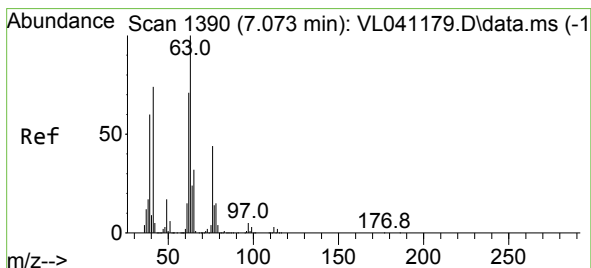
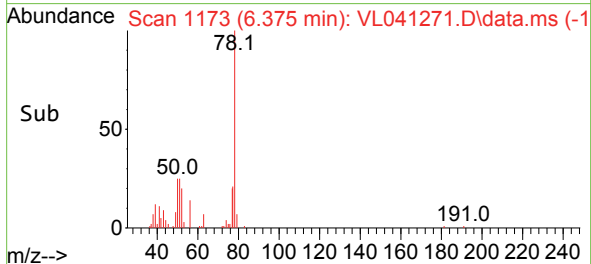
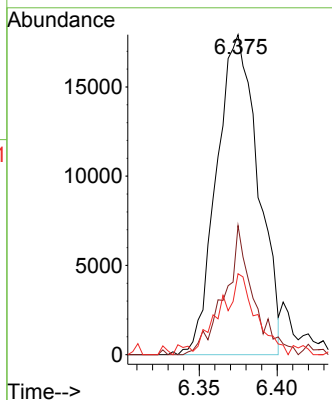
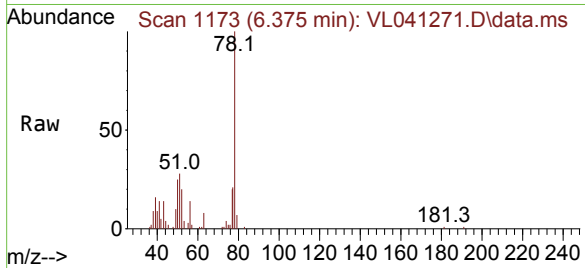




#36
Benzene
Concen: 0.182 ppbv
RT: 6.375 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

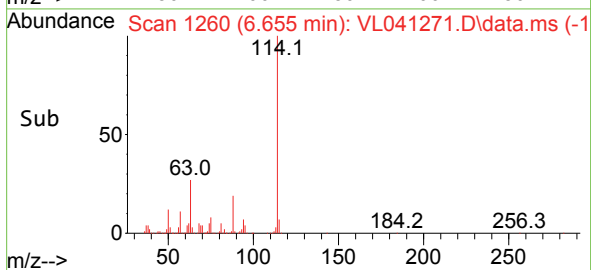
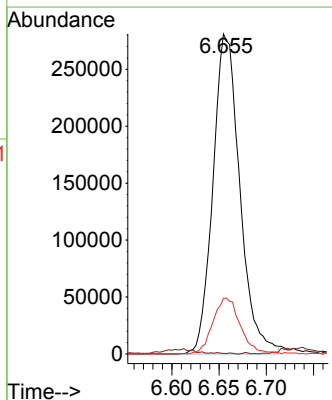
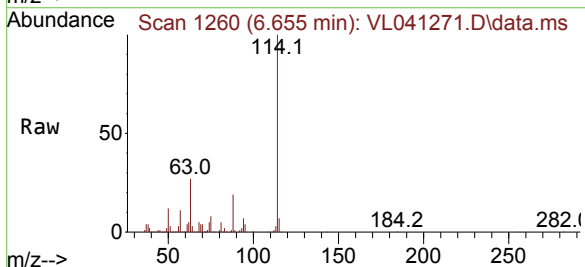
Instrument :
MSVOA_L
ClientSampleId :
IA1

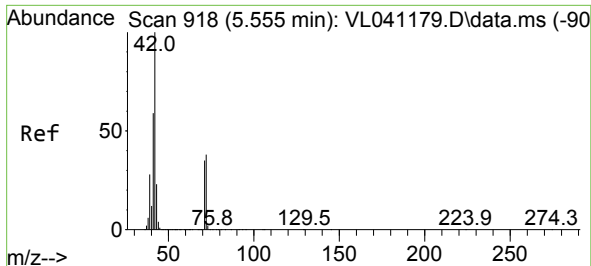
Tgt Ion: 78 Resp: 33286
Ion Ratio Lower Upper
78 100
77 40.4 18.3 27.5#
50 22.2 15.9 23.9



#39
1,2-Dichloropropane
Concen: 7.863 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.421 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 63 Resp: 554714
Ion Ratio Lower Upper
63 100
41 0.0 59.4 89.0#
62 17.4 56.8 85.2#





#41

Tetrahydrofuran

Concen: 4.206 ppbv

RT: 5.221 min Scan# 81

Delta R.T. -0.338 min

Lab File: VL041271.D

Acq: 21 May 2024 18:56

Instrument :

MSVOA_L

ClientSampleId :

IA1

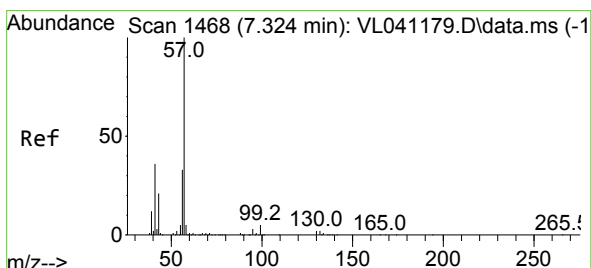
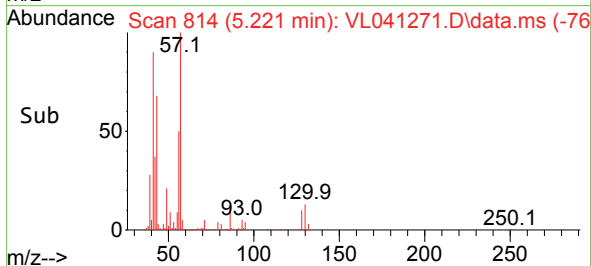
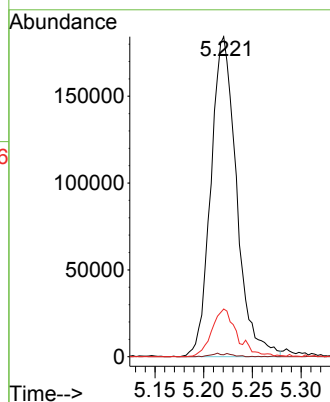
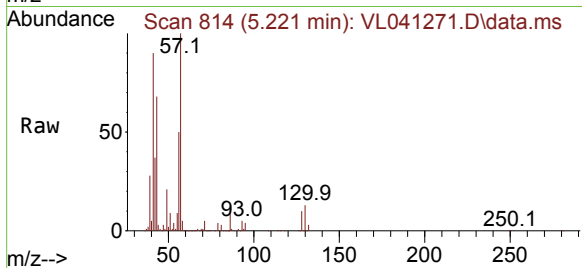
Tgt Ion: 42 Resp: 338038

Ion Ratio Lower Upper

42 100

72 0.8 29.4 44.0#

71 15.0 29.1 43.7#



#44

2,2,4-Trimethylpentane

Concen: 0.159 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. 0.003 min

Lab File: VL041271.D

Acq: 21 May 2024 18:56

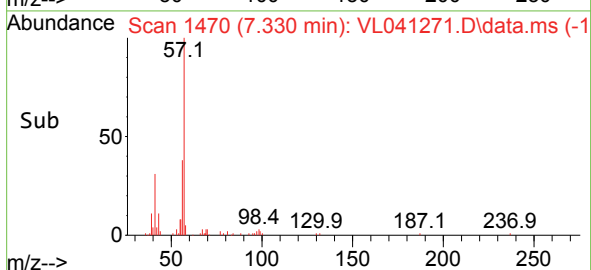
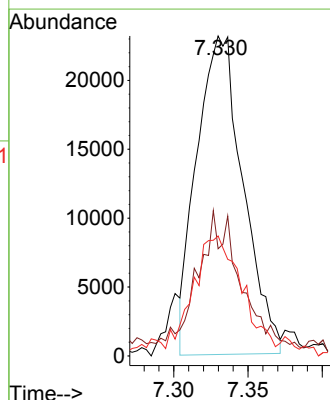
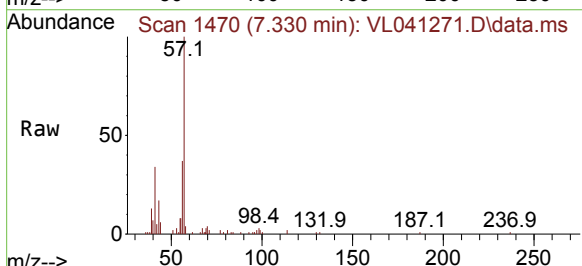
Tgt Ion: 57 Resp: 50303

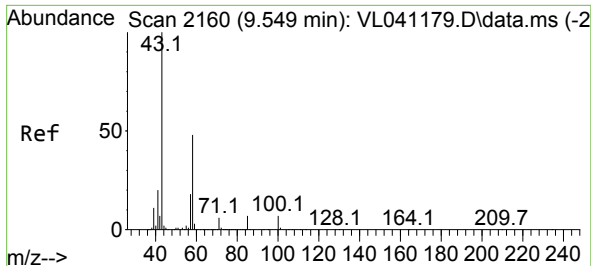
Ion Ratio Lower Upper

57 100

41 50.9 29.5 44.3#

56 45.9 25.3 37.9#

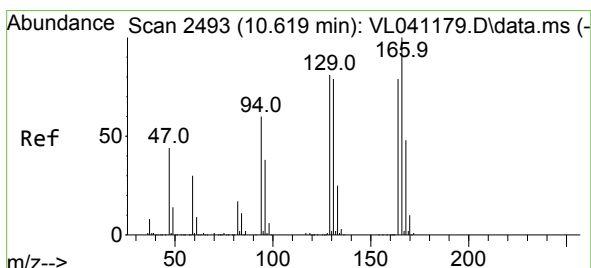
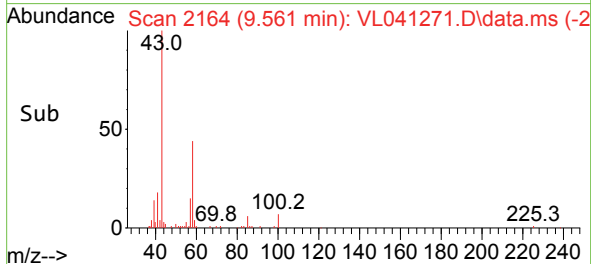
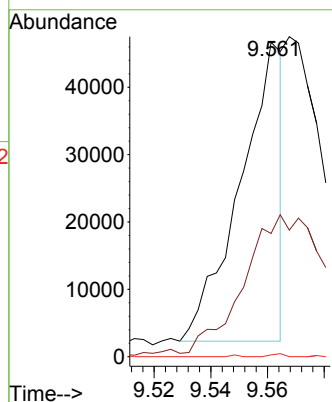
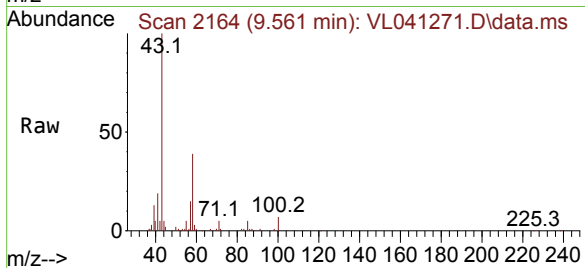




#51
2-Hexanone
Concen: 0.311 ppbv
RT: 9.561 min Scan# 2160
Delta R.T. 0.013 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

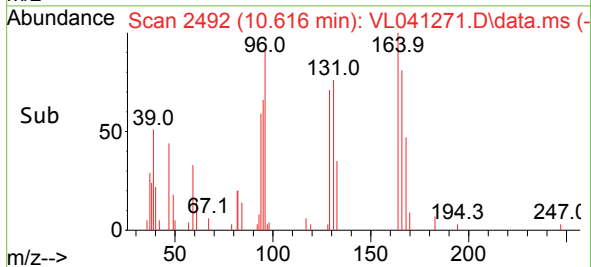
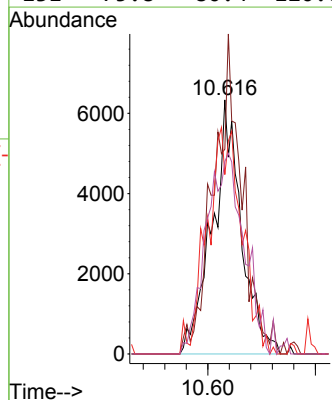
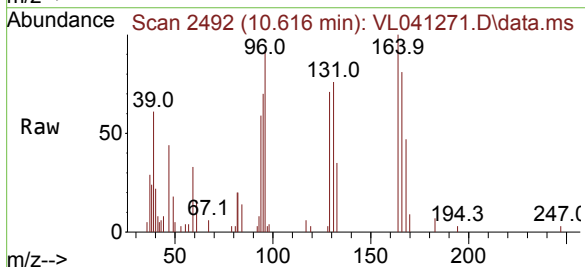
Instrument :
MSVOA_L
ClientSampleId :
IA1

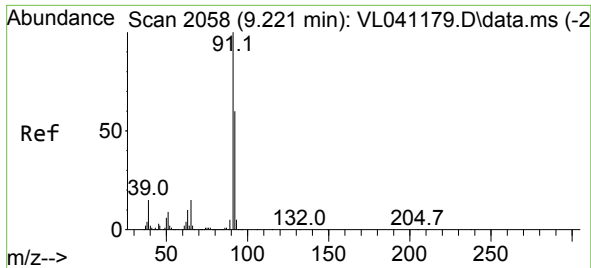
Tgt Ion: 43 Resp: 45945
Ion Ratio Lower Upper
43 100
58 112.2 38.4 57.6#
98 0.4 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.186 ppbv
RT: 10.616 min Scan# 2492
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 164 Resp: 11937
Ion Ratio Lower Upper
164 100
166 80.6 101.1 151.7#
129 70.6 81.7 122.5#
131 75.8 80.4 120.6#

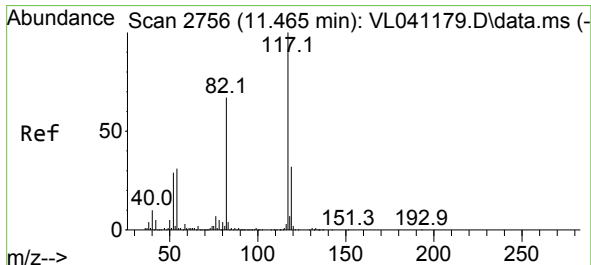
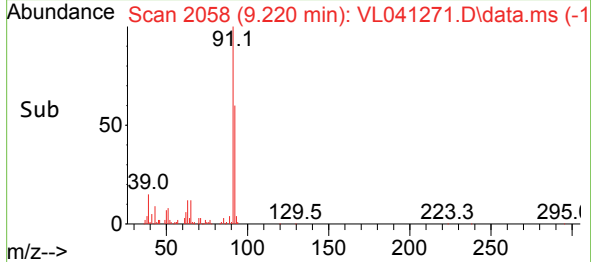
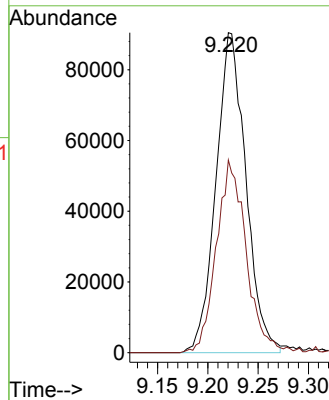
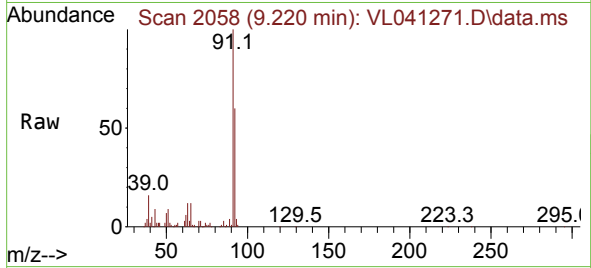




#53
Toluene
Concen: 0.882 ppbv
RT: 9.220 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

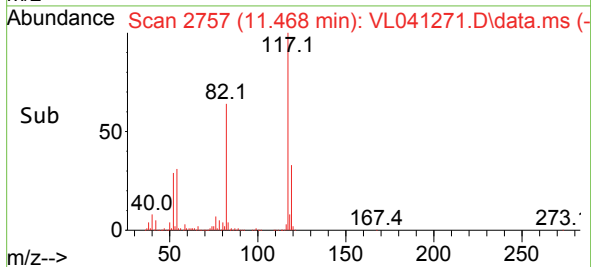
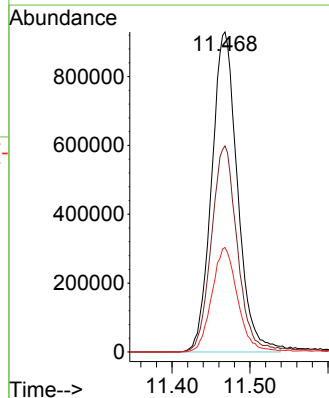
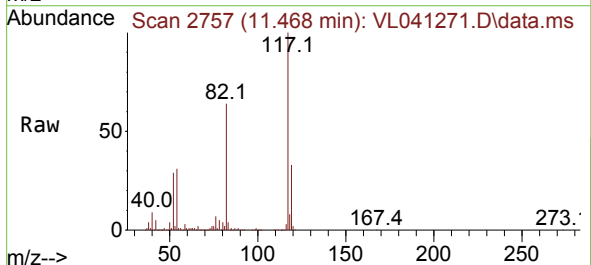
Instrument :
MSVOA_L
ClientSampleId :
IA1

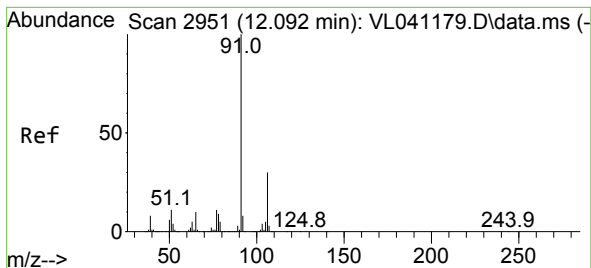
Tgt Ion: 91 Resp: 187207
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 117 Resp: 2140083
Ion Ratio Lower Upper
117 100
82 66.4 53.6 80.4
119 33.2 27.2 40.8





#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.088 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VL041271.D

Acq: 21 May 2024 18:56

Instrument :

MSVOA_L

ClientSampleId :

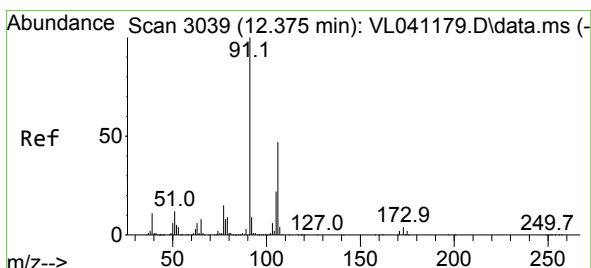
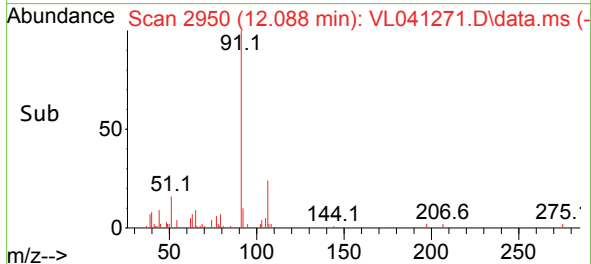
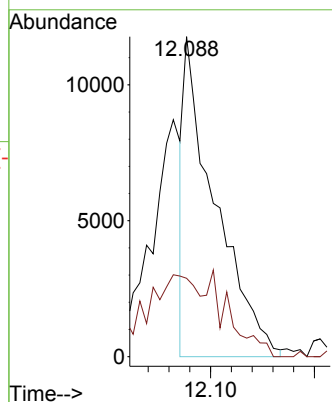
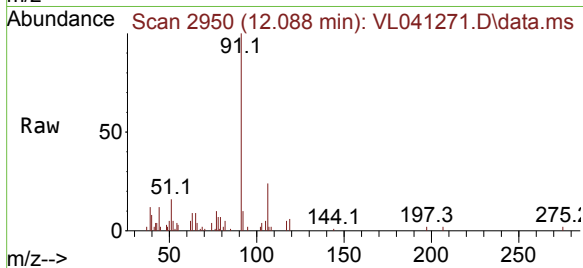
IA1

Tgt Ion: 91 Resp: 12154

Ion Ratio Lower Upper

91 100

106 25.0 24.3 36.5



#59

m/p-Xylene

Concen: 0.103 ppbv

RT: 12.365 min Scan# 3036

Delta R.T. -0.000 min

Lab File: VL041271.D

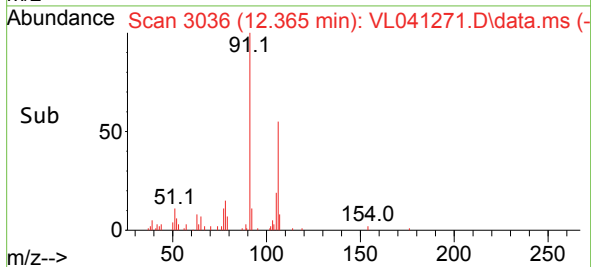
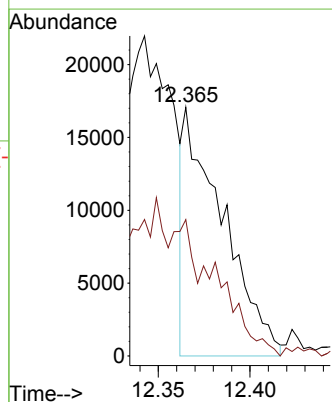
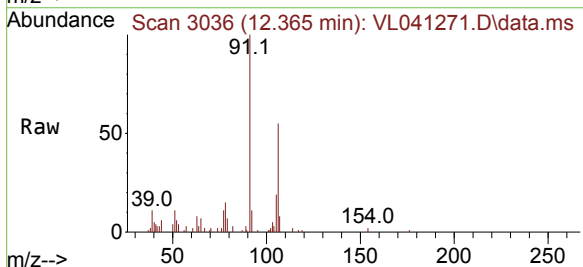
Acq: 21 May 2024 18:56

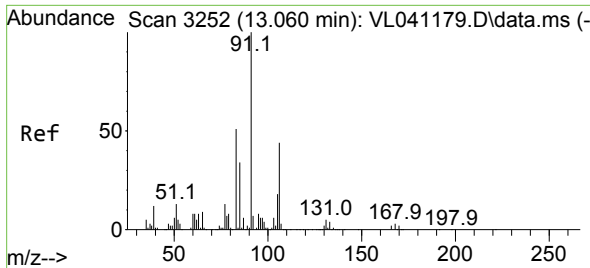
Tgt Ion: 91 Resp: 25334

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#

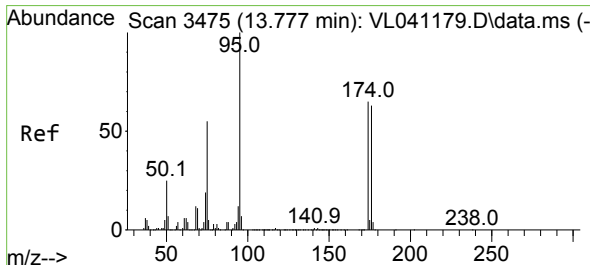
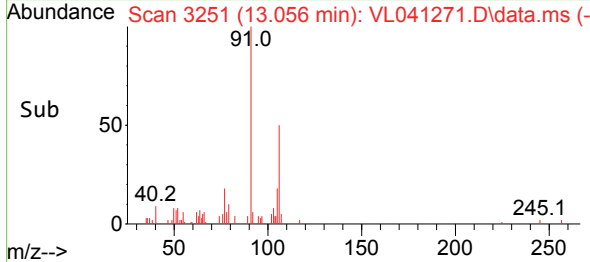
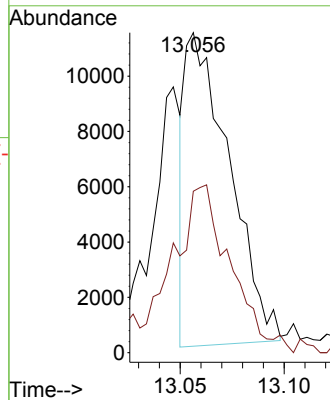
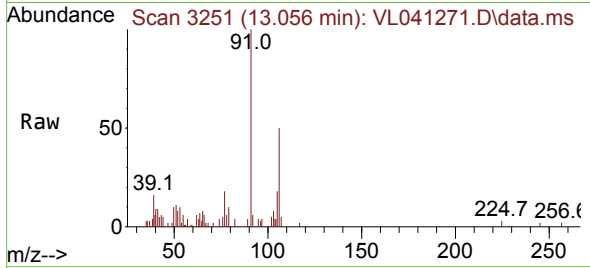




#60
o-Xylene
Concen: 0.072 ppbv
RT: 13.056 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

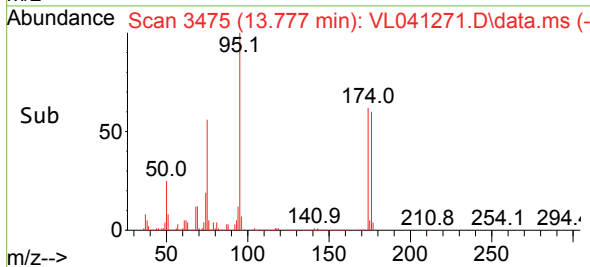
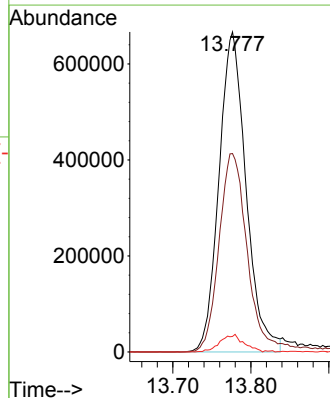
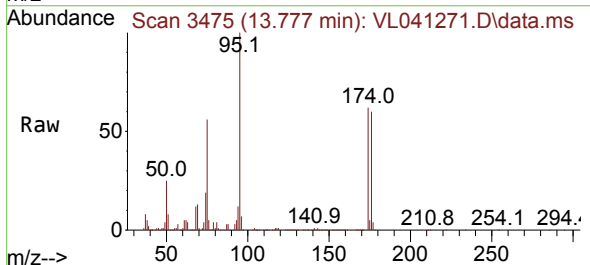
Instrument :
MSVOA_L
ClientSampleId :
IA1

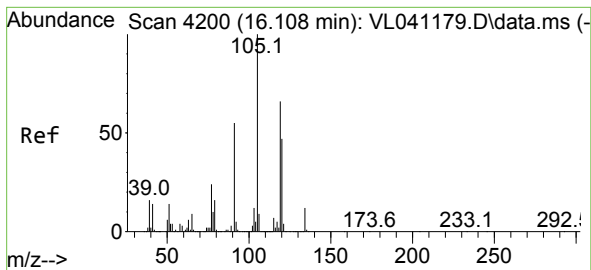
Tgt Ion: 91 Resp: 16736
Ion Ratio Lower Upper
91 100
106 75.9 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.955 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 95 Resp: 1608323
Ion Ratio Lower Upper
95 100
174 67.4 53.6 80.4
175 5.0 4.2 6.4





#74

1,2,4-Trimethylbenzene

Concen: 0.177 ppbv

RT: 16.104 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041271.D

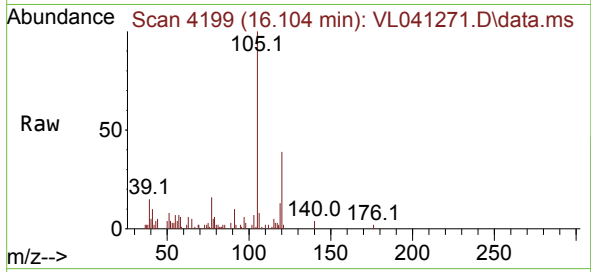
Acq: 21 May 2024 18:56

Instrument :

MSVOA_L

ClientSampleId :

IA1



Tgt Ion:	105	Resp:	45691
Ion	Ratio	Lower	Upper
105	100		
120	39.4	37.8	56.6
91	9.8	44.3	66.5#
77	14.3	19.0	28.4#

