

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052424\
 Data File : VL041289.D
 Acq On : 24 May 2024 13:41
 Operator : SY/MD
 Sample : P2599-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 24 23:21:21 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 : Fri May 24 23:11:50 2024
 Response via : Initial Calibration

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

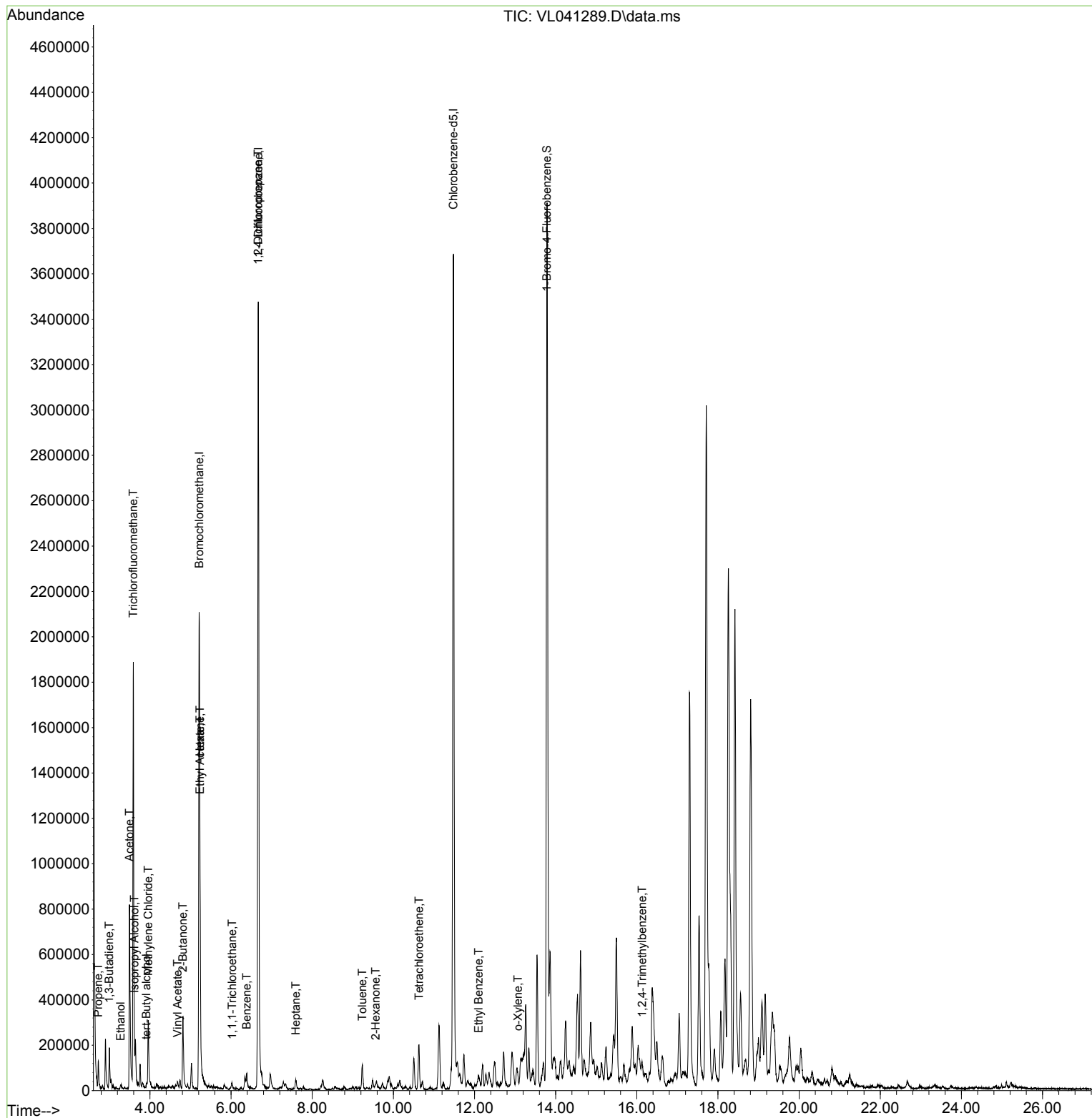
Internal Standards						
1) Bromochloromethane	5.214	49	1035077	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2671502	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2435620	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1933966	10.518	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.200%	
Target Compounds						Qvalue
9) Propene	2.726	41	46433	0.755	ppbv	97
10) Heptane	7.594	43	12529	0.084	ppbv #	39
11) Trichlorofluoromethane	3.591	101	1192698	8.382	ppbv	99
13) Ethanol	3.279	45	17218	1.248	ppbv	78
15) Acetone	3.494	43	895819	7.333	ppbv	96
16) 1,3-Butadiene	2.999	39	48437	0.785	ppbv #	41
17) tert-Butyl alcohol	3.915	59	5017	0.038	ppbv #	31
19) Isopropyl Alcohol	3.616	45	22564	0.281	ppbv #	41
20) Methylene Chloride	3.957	84	89523	2.107	ppbv	98
23) Vinyl Acetate	4.677	43	13107	0.097	ppbv #	69
25) Ethyl Acetate	5.234	43	148968	0.611	ppbv #	77
26) Hexane	5.230	57	222352	2.043	ppbv #	41
32) 1,1,1-Trichloroethane	6.028	97	4562	0.030	ppbv #	1
34) 2-Butanone	4.812	43	367572	2.703	ppbv	100
36) Benzene	6.385	78	28014	0.125	ppbv #	93
39) 1,2-Dichloropropane	6.668	63	677822	7.845	ppbv #	24
51) 2-Hexanone	9.565	43	5662	0.031	ppbv #	29
52) Tetrachloroethene	10.632	164	21348	0.271	ppbv	87
53) Toluene	9.237	91	38852	0.149	ppbv #	13
58) Ethyl Benzene	12.105	91	16221	0.049	ppbv	94
60) o-Xylene	13.069	91	14503	0.055	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.130	105	9090	0.031	ppbv #	65

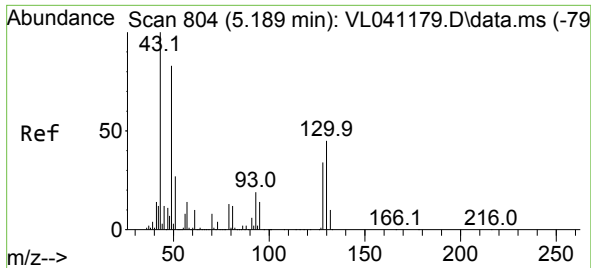
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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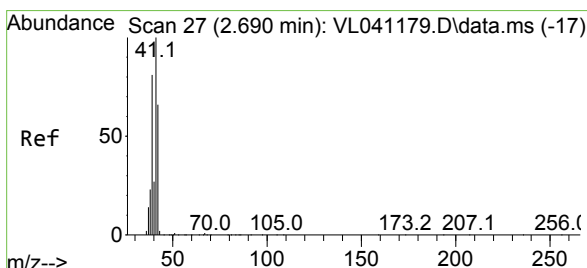
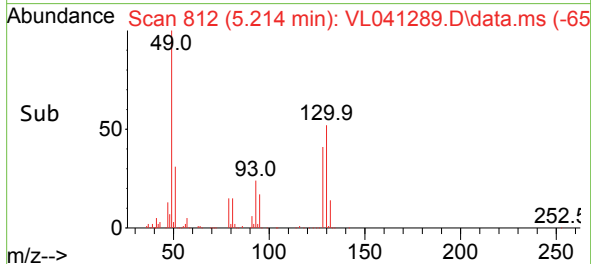
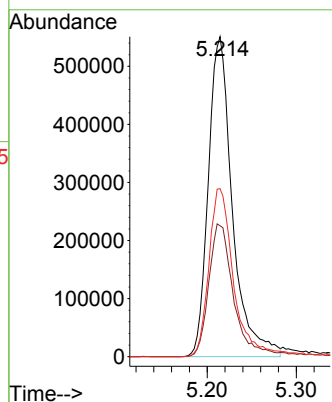
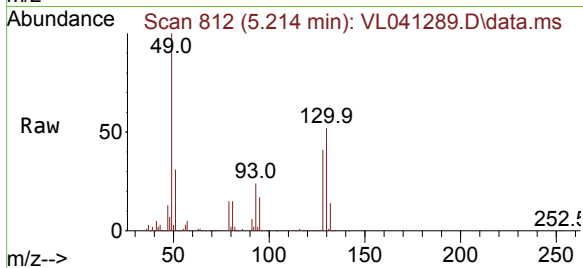




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

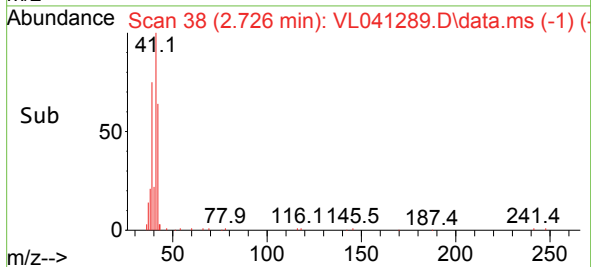
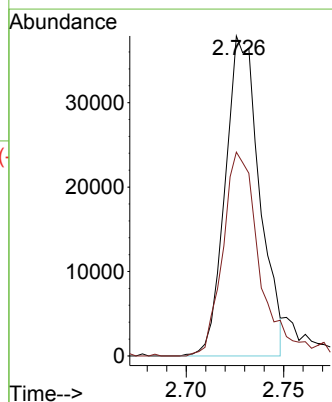
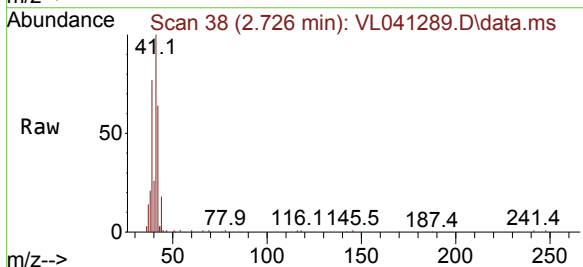
Instrument :
MSVOA_L
ClientSampleId :

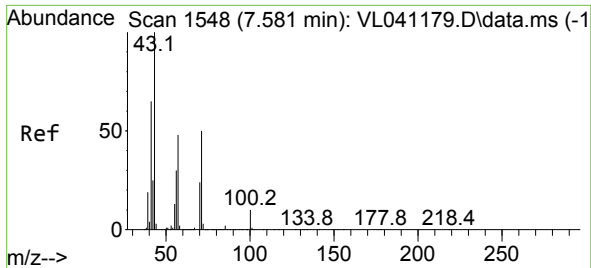
Tgt Ion: 49 Resp: 1035077
Ion Ratio Lower Upper
49 100
128 44.4 21.5 64.5
130 55.8 27.2 81.6



#9
Propene
Concen: 0.755 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.007 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion: 41 Resp: 46433
Ion Ratio Lower Upper
41 100
42 71.6 55.3 82.9

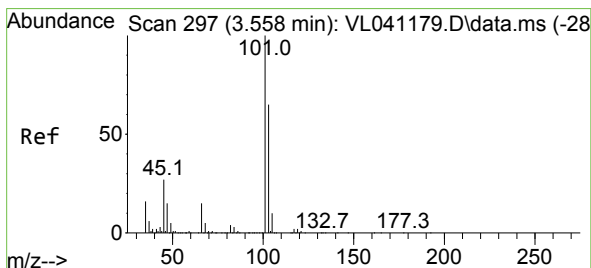
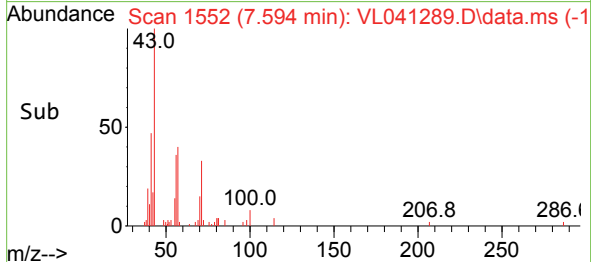
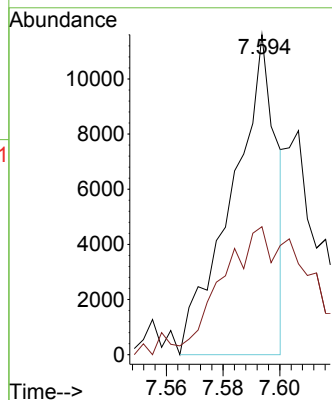
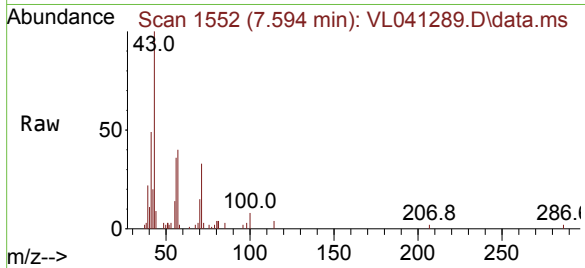




#10
Heptane
Concen: 0.084 ppbv
RT: 7.594 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

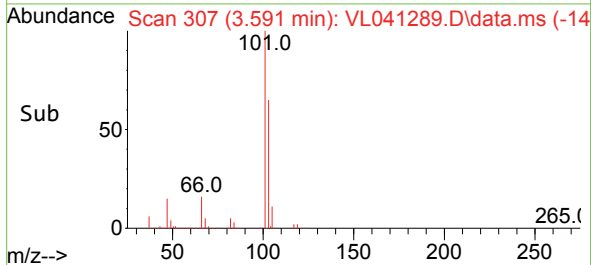
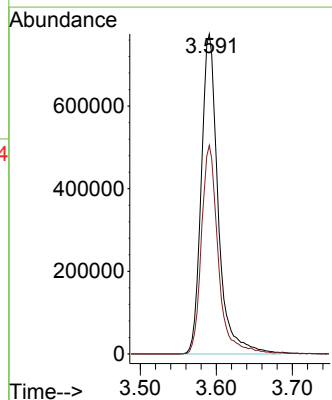
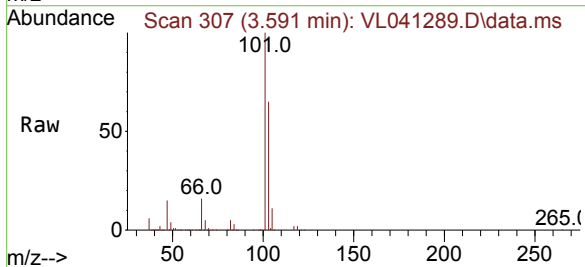
Instrument :
MSVOA_L
ClientSampleId :

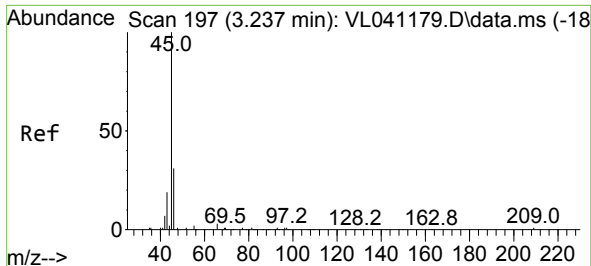
Tgt Ion: 43 Resp: 12529
Ion Ratio Lower Upper
43 100
57 89.8 38.7 58.1#



#11
Trichlorofluoromethane
Concen: 8.382 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.007 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion:101 Resp: 1192698
Ion Ratio Lower Upper
101 100
103 65.2 51.6 77.4

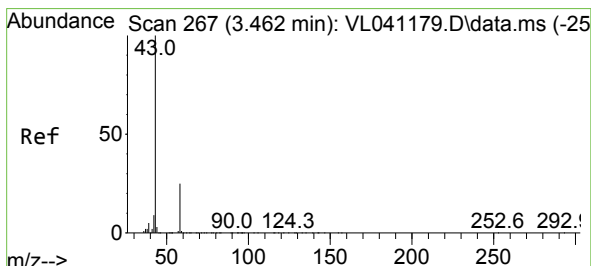
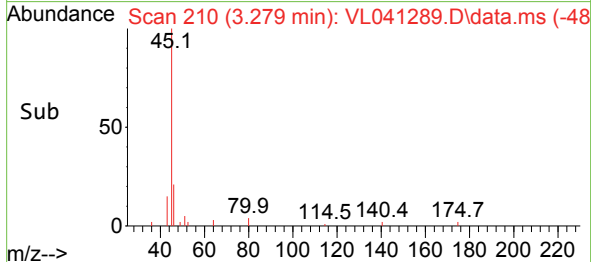
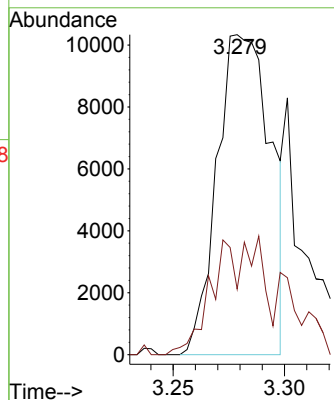
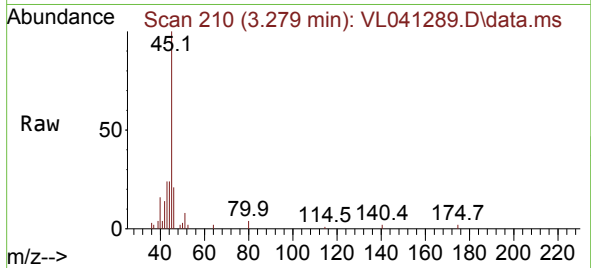




#13
Ethanol
Concen: 1.248 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.019 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

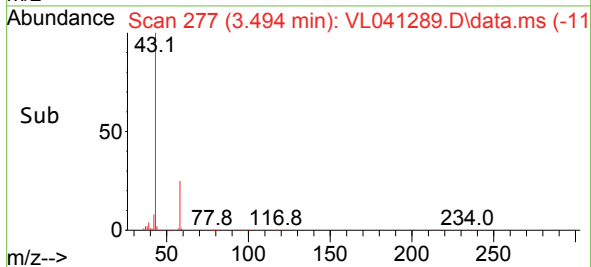
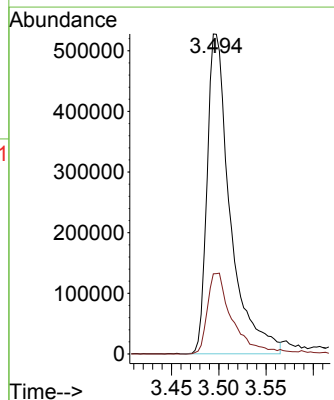
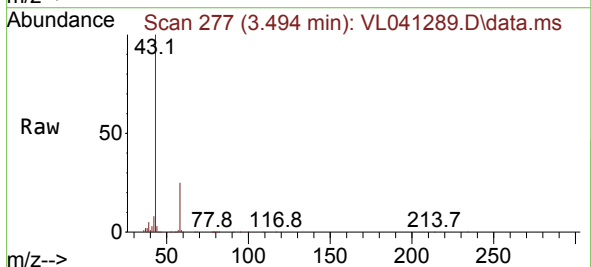
Instrument :
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ClientSampleId :

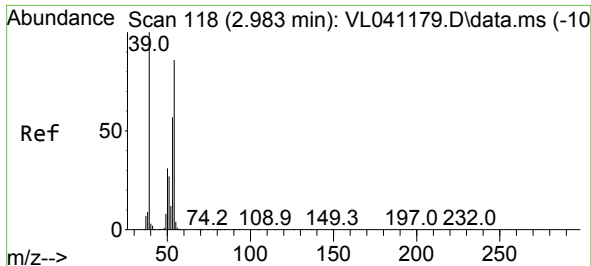
Tgt Ion: 45 Resp: 17218
Ion Ratio Lower Upper
45 100
46 50.2 14.8 59.0



#15
Acetone
Concen: 7.333 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.007 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion: 43 Resp: 895819
Ion Ratio Lower Upper
43 100
58 28.6 21.4 32.0

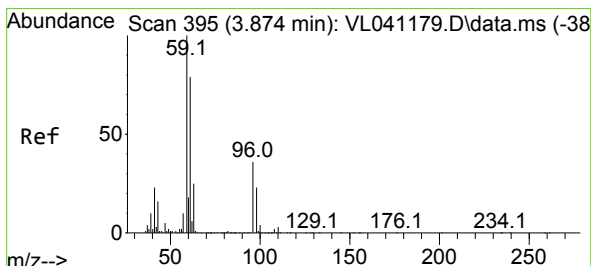
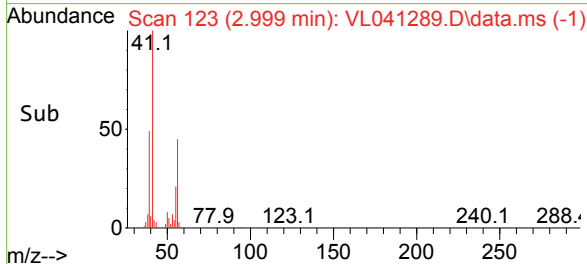
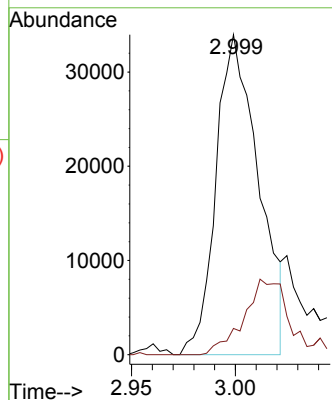
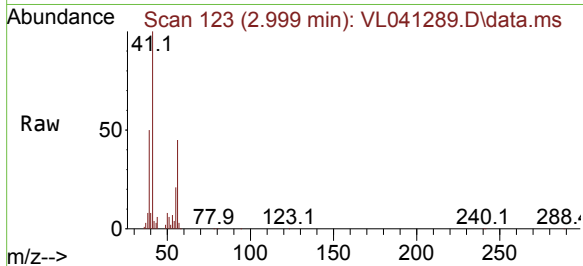




#16
1,3-Butadiene
Concen: 0.785 ppbv
RT: 2.999 min Scan# 118
Delta R.T. -0.010 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

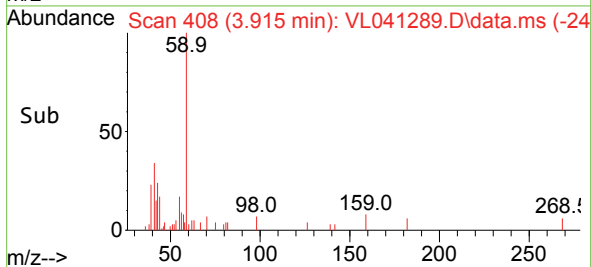
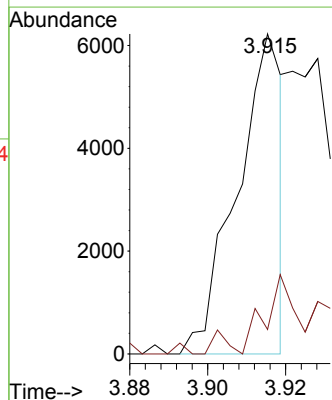
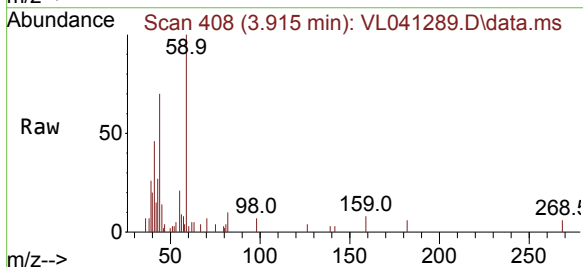
Instrument :
MSVOA_L
ClientSampleId :

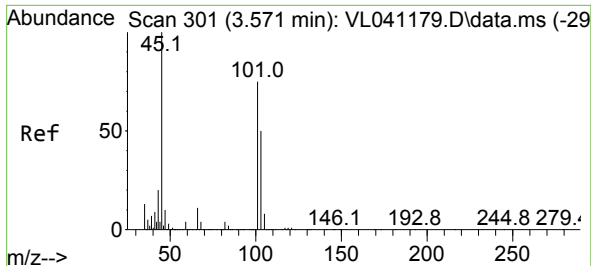
Tgt Ion: 39 Resp: 48437
Ion Ratio Lower Upper
39 100
54 26.3 62.2 93.4#



#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.019 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion: 59 Resp: 5017
Ion Ratio Lower Upper
59 100
57 36.3 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.281 ppbv

RT: 3.616 min Scan# 315

Delta R.T. 0.023 min

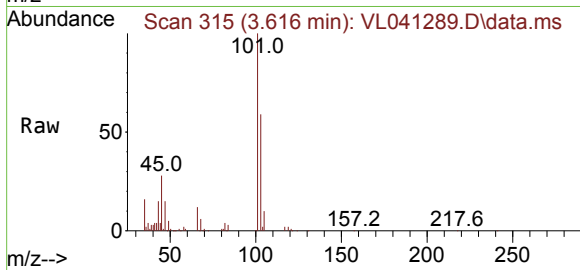
Lab File: VL041289.D

Acq: 24 May 2024 13:41

Instrument :

MSVOA_L

ClientSampleId :

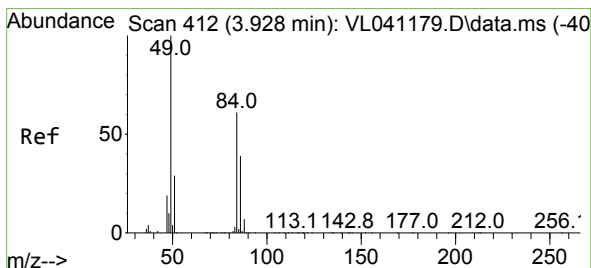
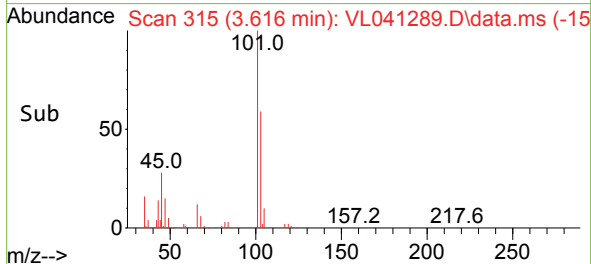
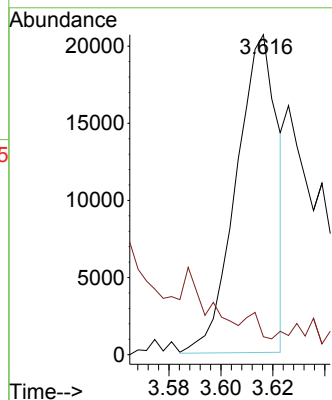


Tgt Ion: 45 Resp: 22564

Ion Ratio Lower Upper

45 100

58 0.0 26.8 40.2#



#20

Methylene Chloride

Concen: 2.107 ppbv

RT: 3.957 min Scan# 421

Delta R.T. 0.007 min

Lab File: VL041289.D

Acq: 24 May 2024 13:41

Tgt Ion: 84 Resp: 89523

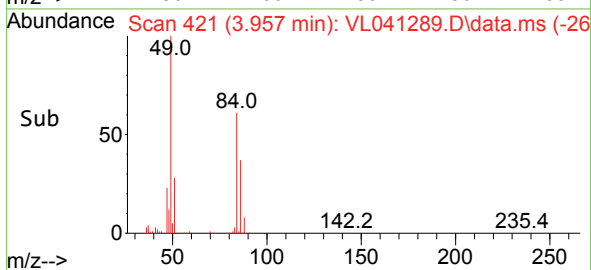
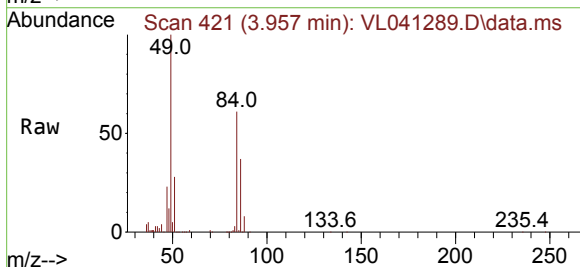
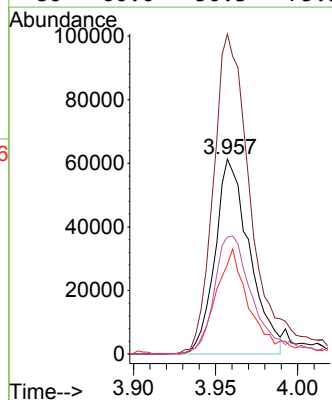
Ion Ratio Lower Upper

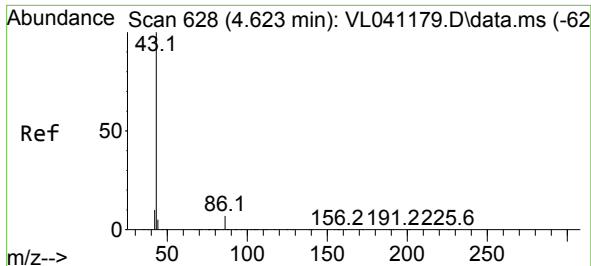
84 100

49 163.6 130.4 195.6

51 45.5 38.0 57.0

86 60.0 50.3 75.5

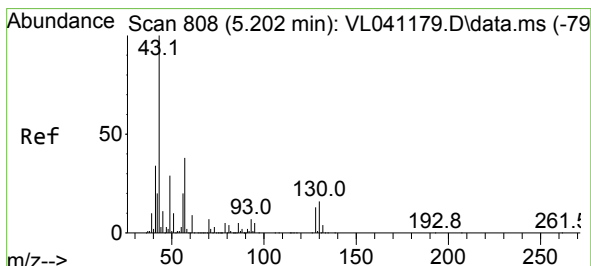
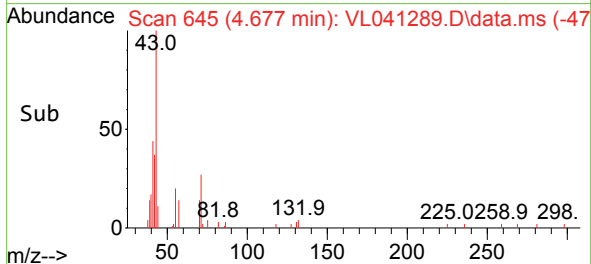
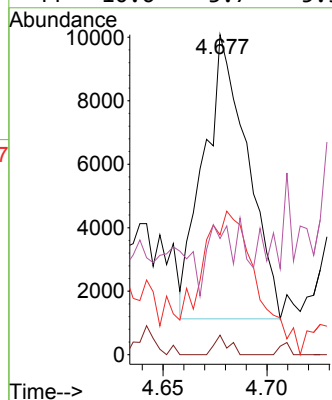
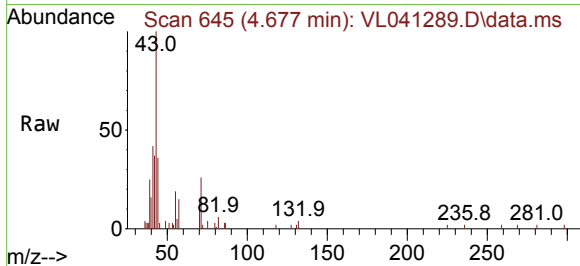




#23
 Vinyl Acetate
 Concen: 0.097 ppbv
 RT: 4.677 min Scan# 645
 Delta R.T. 0.035 min
 Lab File: VL041289.D
 Acq: 24 May 2024 13:41

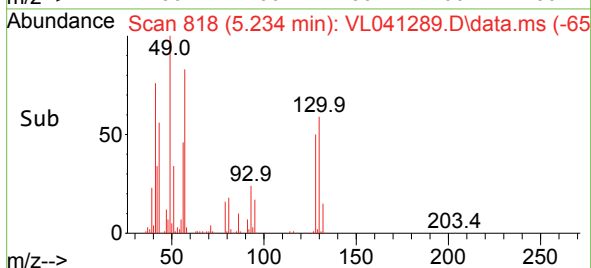
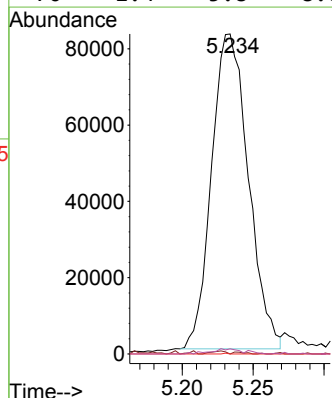
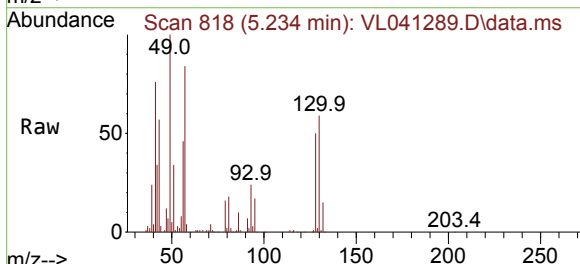
Instrument :
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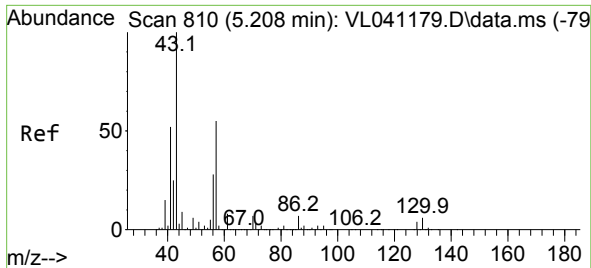
Tgt Ion:	43	Resp:	13107
Ion	Ratio	Lower	Upper
43	100		
86	6.9	4.9	7.3
42	30.0	8.0	12.0#
44	10.6	3.7	5.5#



#25
 Ethyl Acetate
 Concen: 0.611 ppbv
 RT: 5.234 min Scan# 818
 Delta R.T. 0.016 min
 Lab File: VL041289.D
 Acq: 24 May 2024 13:41

Tgt Ion:	43	Resp:	148968
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.2	12.2#
61	0.0	7.7	11.5#
70	1.4	5.8	8.6#

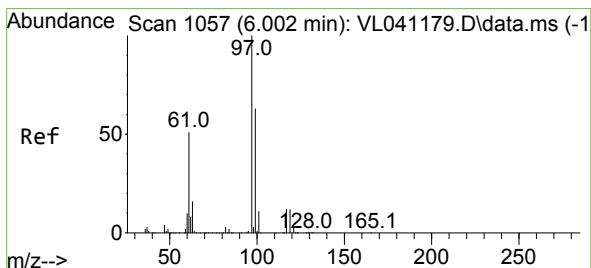
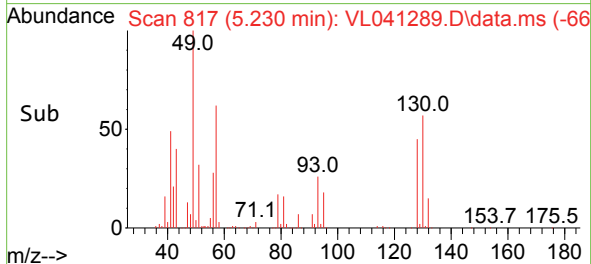
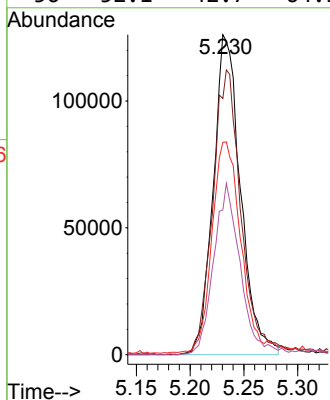
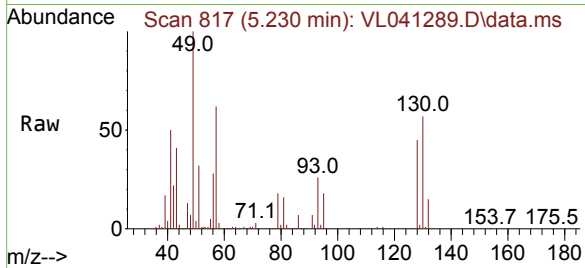




#26
Hexane
Concen: 2.043 ppbv
RT: 5.230 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

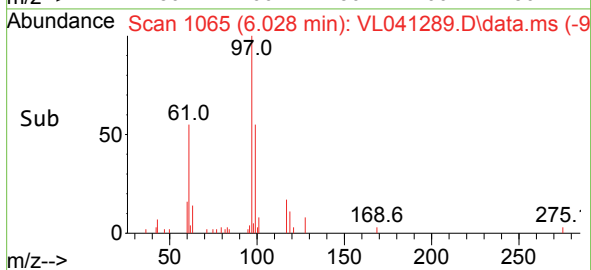
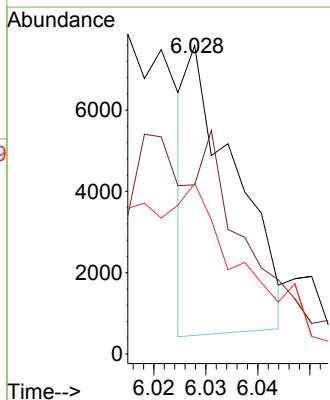
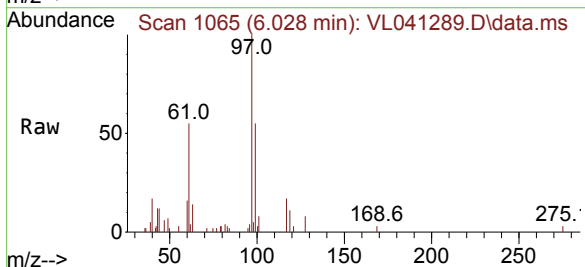
Instrument :
MSVOA_L
ClientSampleId :

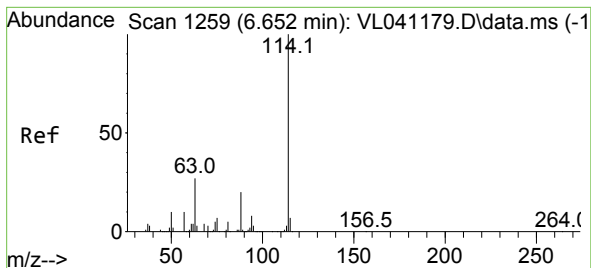
Tgt Ion: 57 Resp: 222352
Ion Ratio Lower Upper
57 100
41 95.7 75.8 113.8
43 73.7 187.0 280.4#
56 52.1 42.7 64.1



#32
1,1,1-Trichloroethane
Concen: 0.030 ppbv
RT: 6.028 min Scan# 1065
Delta R.T. 0.010 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion: 97 Resp: 4562
Ion Ratio Lower Upper
97 100
99 239.8 51.7 77.5#
61 187.4 41.1 61.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL041289.D

Acq: 24 May 2024 13:41

Instrument :

MSVOA_L

ClientSampleId :

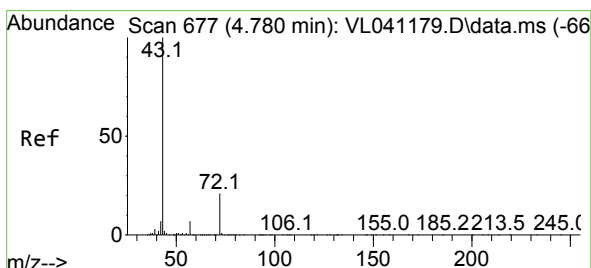
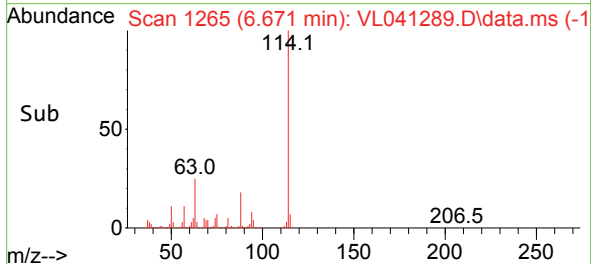
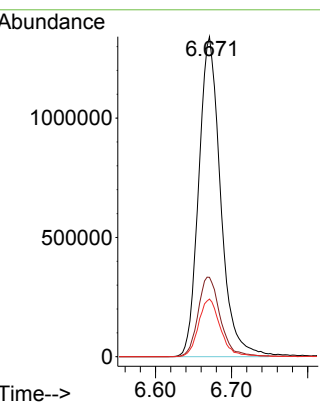
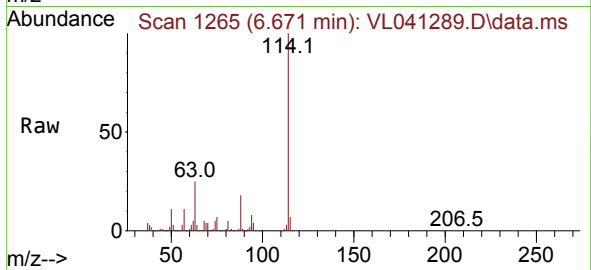
Tgt Ion:114 Resp: 2671502

Ion Ratio Lower Upper

114 100

63 25.6 21.8 32.6

88 18.3 15.2 22.8



#34

2-Butanone

Concen: 2.703 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.010 min

Lab File: VL041289.D

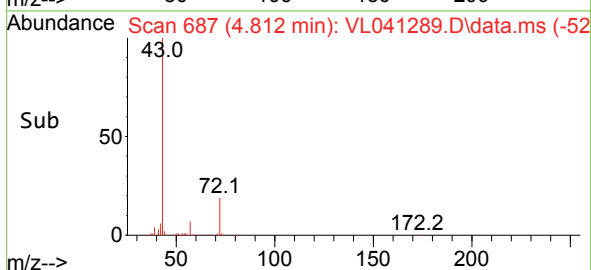
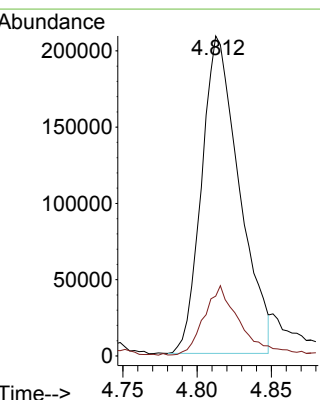
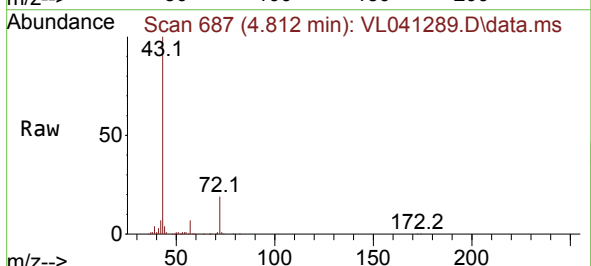
Acq: 24 May 2024 13:41

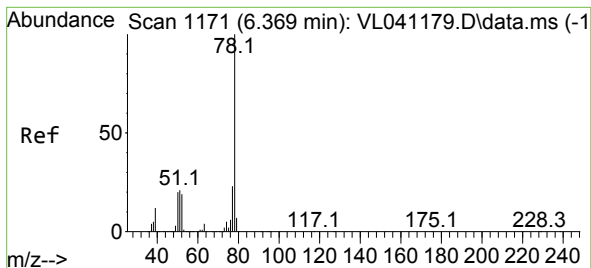
Tgt Ion: 43 Resp: 367572

Ion Ratio Lower Upper

43 100

72 21.4 17.3 25.9





#36

Benzene

Concen: 0.125 ppbv

RT: 6.385 min Scan# 1176

Delta R.T. 0.000 min

Lab File: VL041289.D

Acq: 24 May 2024 13:41

Instrument :

MSVOA_L

ClientSampleId :

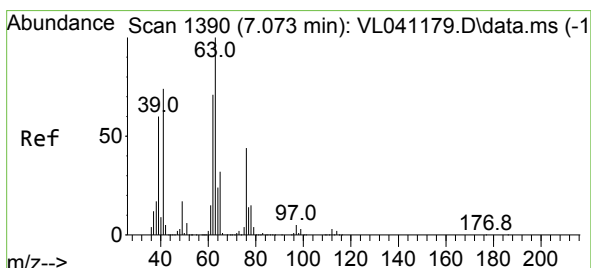
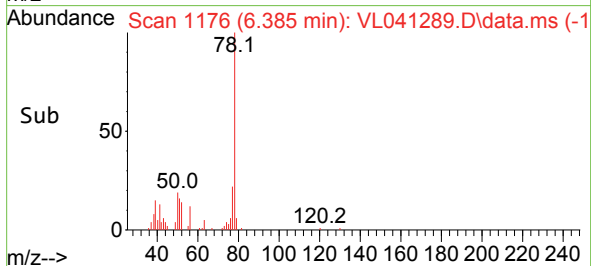
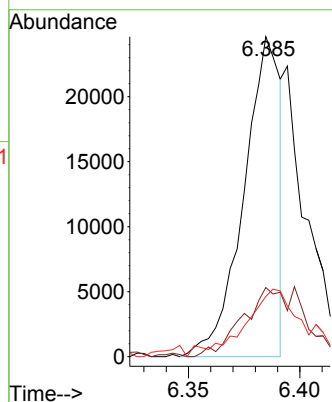
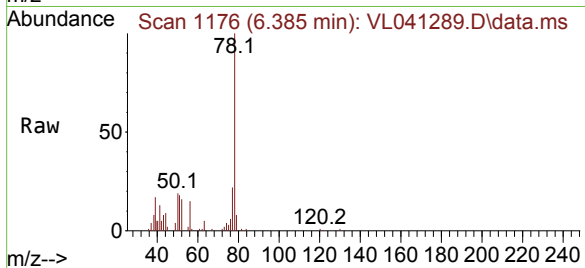
Tgt Ion: 78 Resp: 28014

Ion Ratio Lower Upper

78 100

77 20.9 18.3 27.5

50 15.3 15.9 23.9#



#39

1,2-Dichloropropane

Concen: 7.845 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. -0.418 min

Lab File: VL041289.D

Acq: 24 May 2024 13:41

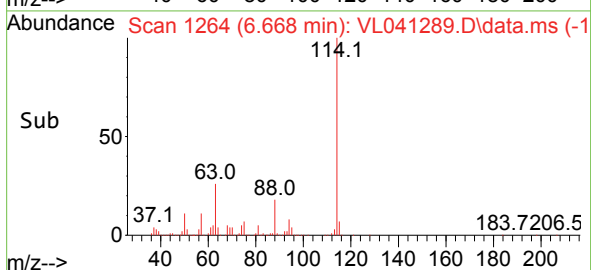
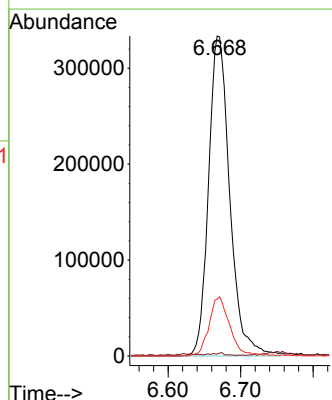
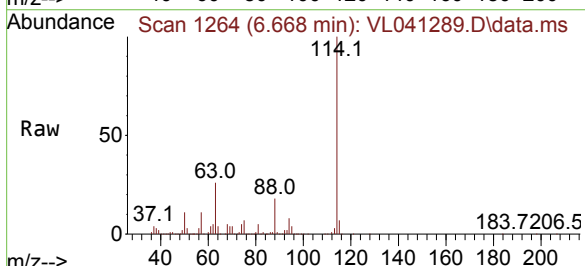
Tgt Ion: 63 Resp: 677822

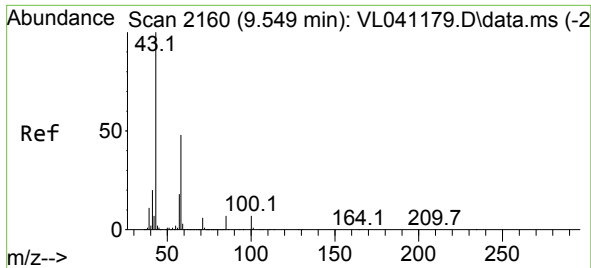
Ion Ratio Lower Upper

63 100

41 0.2 59.4 89.0#

62 17.8 56.8 85.2#

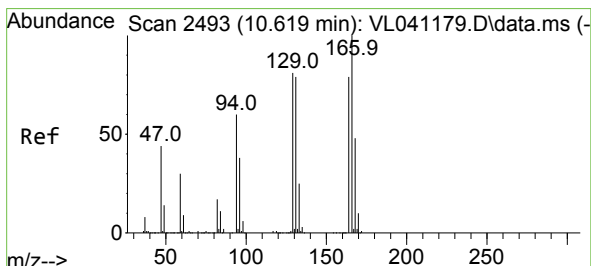
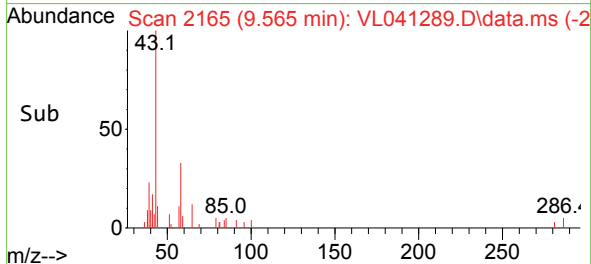
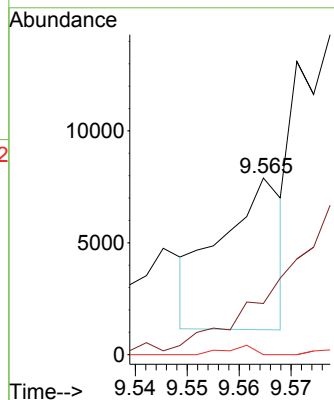
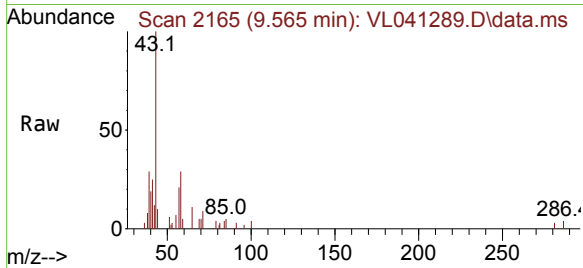




#51
2-Hexanone
Concen: 0.031 ppbv
RT: 9.565 min Scan# 2160
Delta R.T. 0.007 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

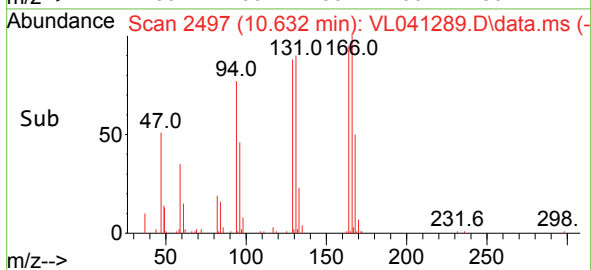
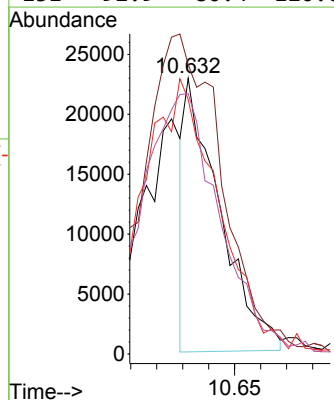
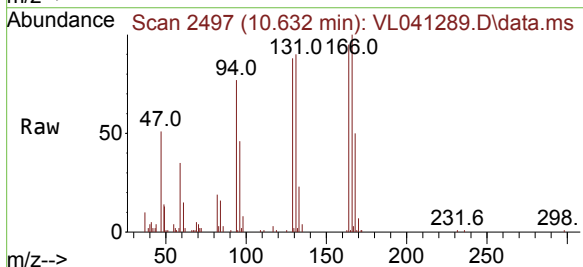
Instrument :
MSVOA_L
ClientSampleId :

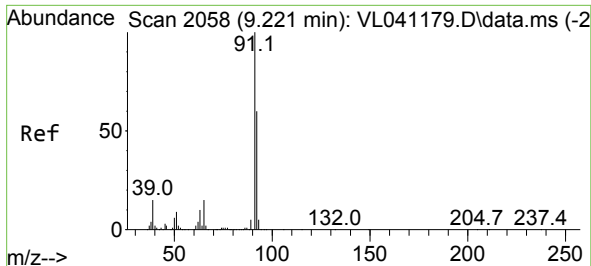
Tgt Ion: 43 Resp: 5662
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 5.1 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.271 ppbv
RT: 10.632 min Scan# 2497
Delta R.T. 0.010 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion: 164 Resp: 21348
Ion Ratio Lower Upper
164 100
166 101.3 101.1 151.7
129 93.5 81.7 122.5
131 92.9 80.4 120.6





#53

Toluene

Concen: 0.149 ppbv

RT: 9.237 min Scan# 2058

Delta R.T. 0.007 min

Lab File: VL041289.D

Acq: 24 May 2024 13:41

Instrument :

MSVOA_L

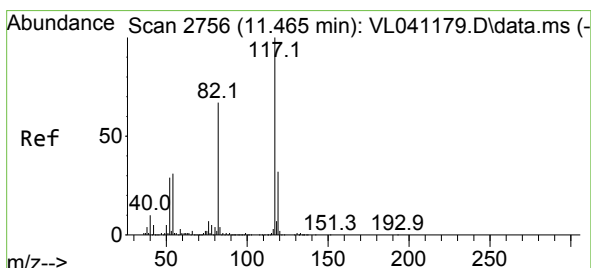
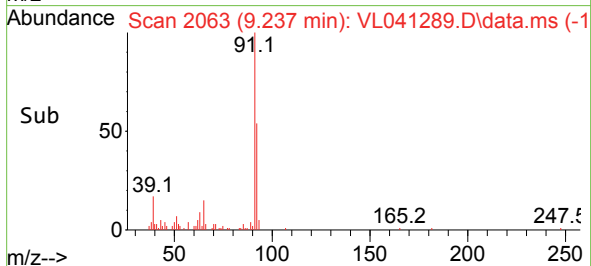
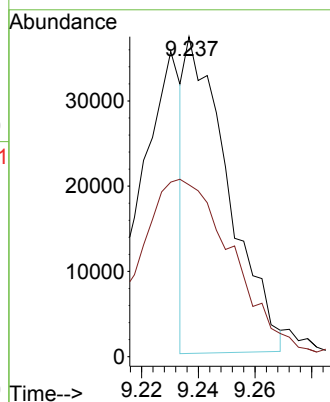
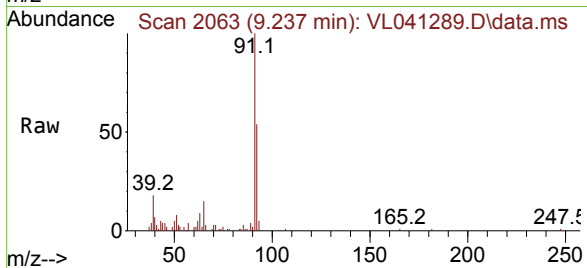
ClientSampleId :

Tgt Ion: 91 Resp: 38852

Ion Ratio Lower Upper

91 100

92 126.2 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.481 min Scan# 2761

Delta R.T. 0.010 min

Lab File: VL041289.D

Acq: 24 May 2024 13:41

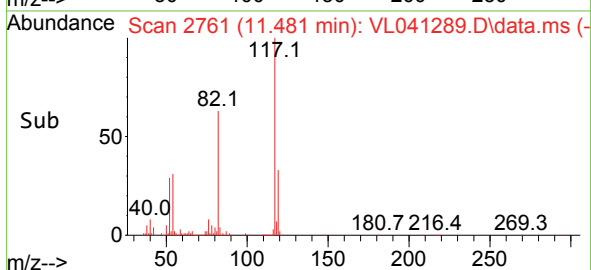
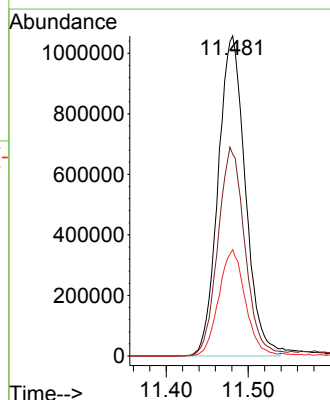
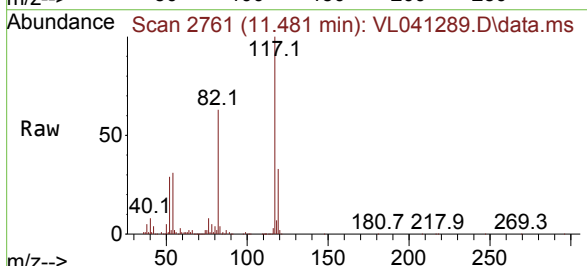
Tgt Ion: 117 Resp: 2435620

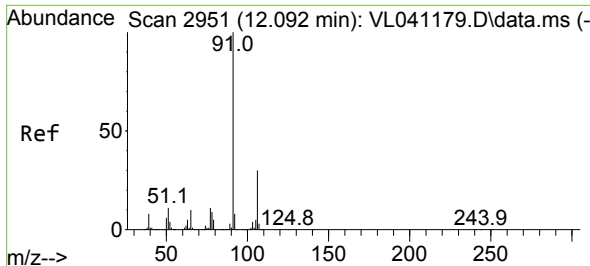
Ion Ratio Lower Upper

117 100

82 64.9 53.6 80.4

119 33.4 27.2 40.8

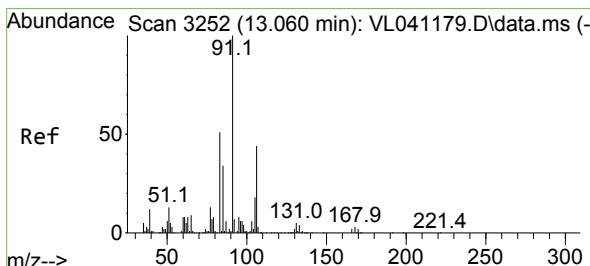
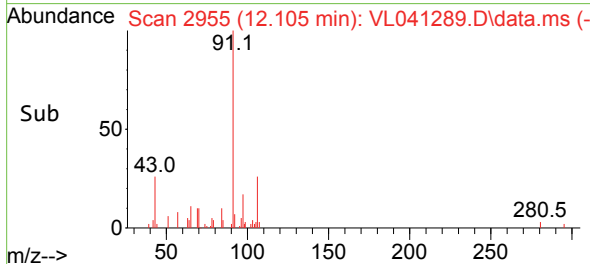
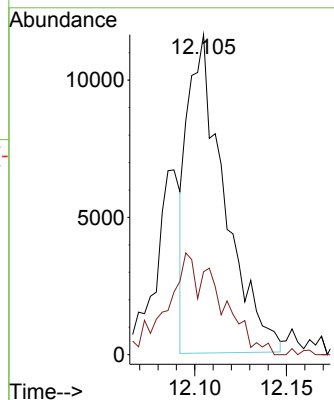
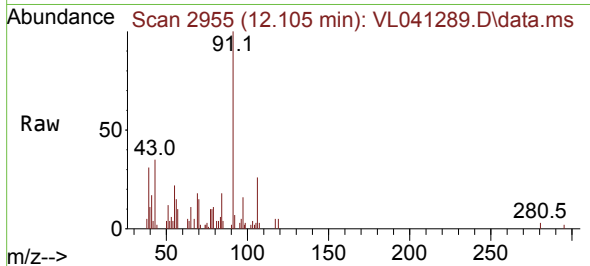




#58
Ethyl Benzene
Concen: 0.049 ppbv
RT: 12.105 min Scan# 2955
Delta R.T. 0.010 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

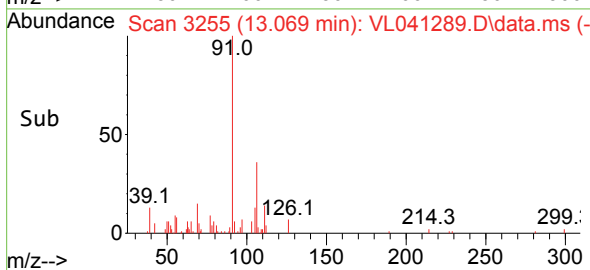
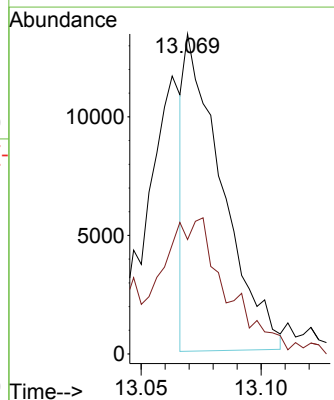
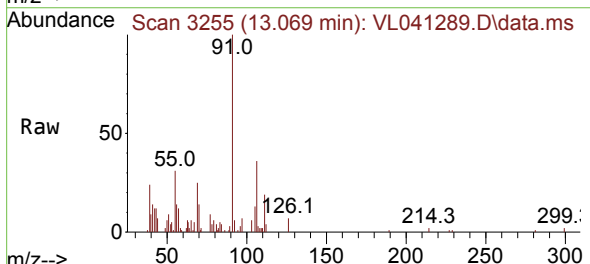
Instrument :
MSVOA_L
ClientSampleId :

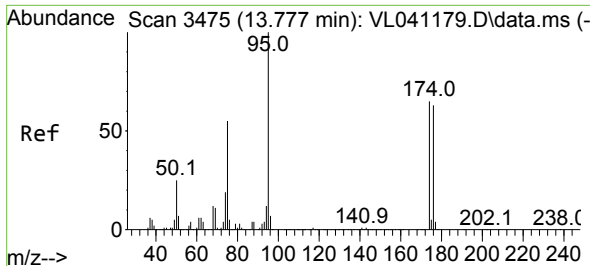
Tgt Ion: 91 Resp: 16221
Ion Ratio Lower Upper
91 100
106 27.0 24.3 36.5



#60
o-Xylene
Concen: 0.055 ppbv
RT: 13.069 min Scan# 3255
Delta R.T. 0.007 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion: 91 Resp: 14503
Ion Ratio Lower Upper
91 100
106 89.9 22.4 67.3#

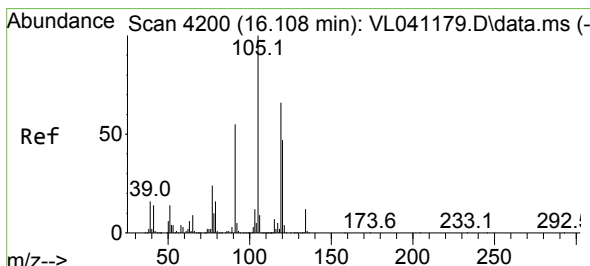
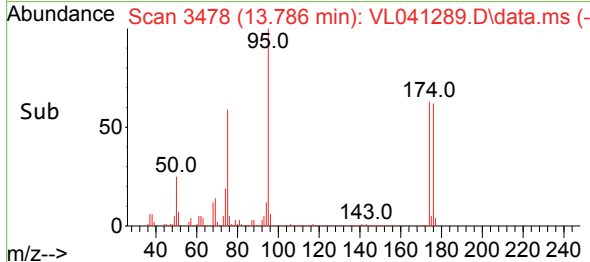
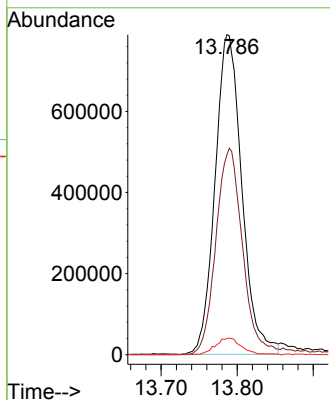
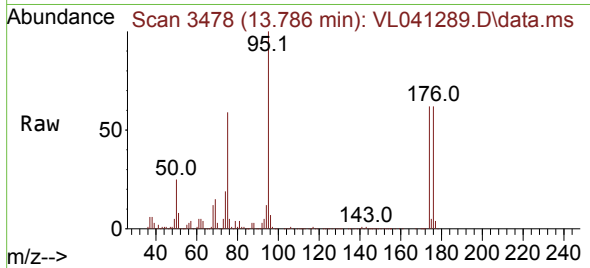




#68
1-Bromo-4-Fluorobenzene
Concen: 10.518 ppbv
RT: 13.786 min Scan# 3475
Delta R.T. 0.007 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1933966
Ion Ratio Lower Upper
95 100
174 66.9 53.6 80.4
175 5.1 4.2 6.4



#74
1,2,4-Trimethylbenzene
Concen: 0.031 ppbv
RT: 16.130 min Scan# 4207
Delta R.T. 0.019 min
Lab File: VL041289.D
Acq: 24 May 2024 13:41

Tgt Ion:105 Resp: 9090
Ion Ratio Lower Upper
105 100
120 33.1 37.8 56.6#
91 11.2 44.3 66.5#
77 24.5 19.0 28.4

