

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041223\
 Data File : VL040344.D
 Acq On : 12 Apr 2023 18:30
 Operator : SY/MD
 Sample : 02311-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Apr 13 05:40:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Apr 11 04:15:53 2023
 Response via : Initial Calibration

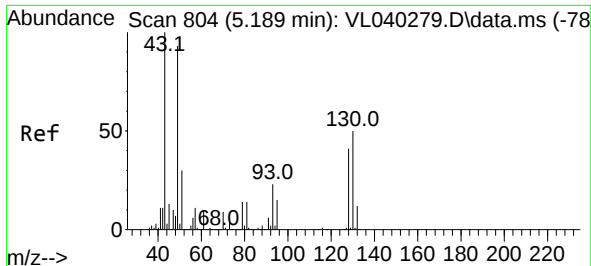
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.195	49	1051080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2695907	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2584266	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	2133887	9.860	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.665	51	6051	0.046	ppbv #	57
4) Chloromethane	2.806	50	3836	0.047	ppbv	91
9) Propene	2.864	41	427719	8.447	ppbv	87
10) Heptane	7.591	43	1532698	12.585	ppbv	98
11) Trichlorofluoromethane	3.559	101	10652	0.057	ppbv	90
13) Ethanol	3.247	45	29442	7.928	ppbv	90
15) Acetone	3.485	43	1156305	9.036	ppbv #	61
16) 1,3-Butadiene	2.957	39	219487	3.774	ppbv #	12
20) Methylene Chloride	3.928	84	31286	0.581	ppbv #	89
21) Allyl Chloride	3.951	41	159655	1.926	ppbv #	48
23) Vinyl Acetate	4.604	43	157255	4.417	ppbv #	1
25) Ethyl Acetate	5.214	43	1428903	5.965	ppbv #	75
26) Hexane	5.214	57	2134230	21.703	ppbv #	35
27) Carbon Disulfide	4.121	76	4628	0.034	ppbv #	68
34) 2-Butanone	4.658	43	1162995	8.741	ppbv #	57
39) 1,2-Dichloropropane	6.658	63	698958	8.671	ppbv #	28
41) Tetrahydrofuran	5.497	42	70854	0.923	ppbv #	36
42) Bromodichloromethane	7.266	83	15120	0.083	ppbv #	28
43) Methyl Methacrylate	7.449	69	9526	0.125	ppbv #	1
51) 2-Hexanone	9.545	43	268498	1.683	ppbv #	32
52) Tetrachloroethene	10.629	164	19386	0.312	ppbv	97
53) Toluene	9.230	91	107620	0.500	ppbv	99
60) o-Xylene	13.073	91	13109	0.051	ppbv	83
73) 1,3,5-Trimethylbenzene	15.368	105	9430	0.037	ppbv	97
74) 1,2,4-Trimethylbenzene	16.124	105	61690	0.212	ppbv #	64

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

Quant Time: Apr 13 05:40:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Apr 11 04:15:53 2023
Response via : Initial Calibration

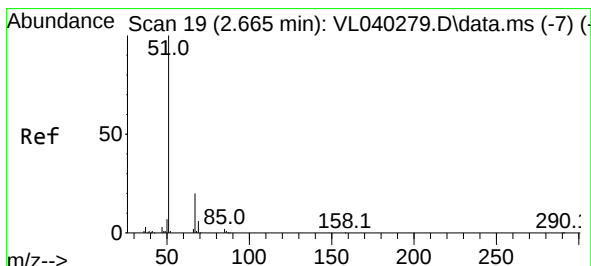
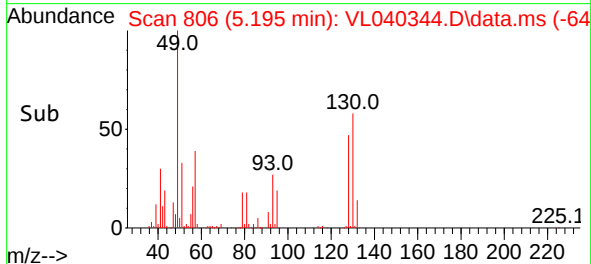
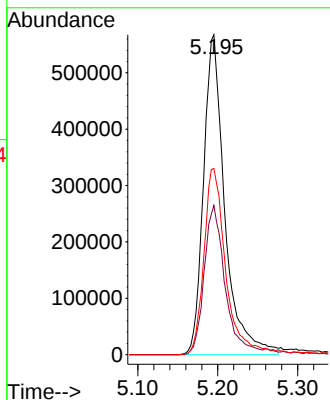
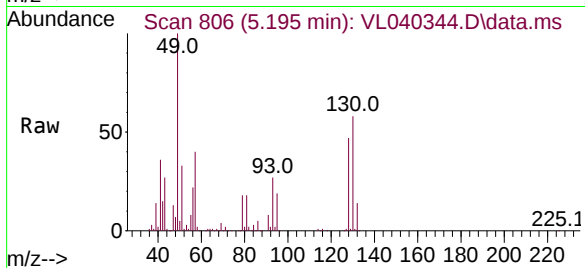




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 804
Delta R.T. 0.006 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

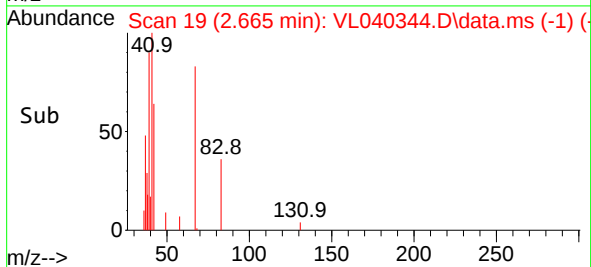
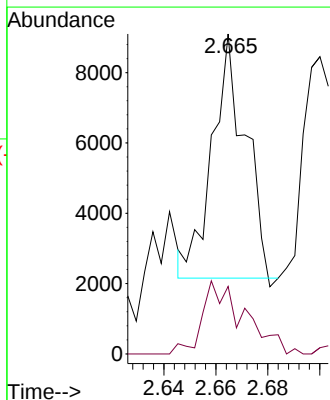
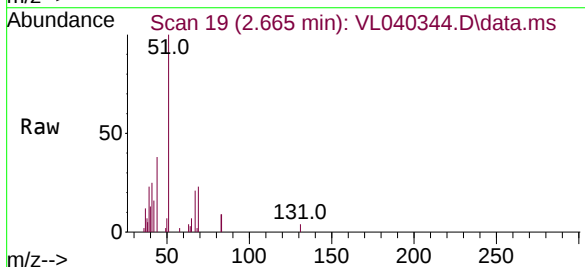
Instrument :
MSVOA_L
ClientSampleId :
SV1

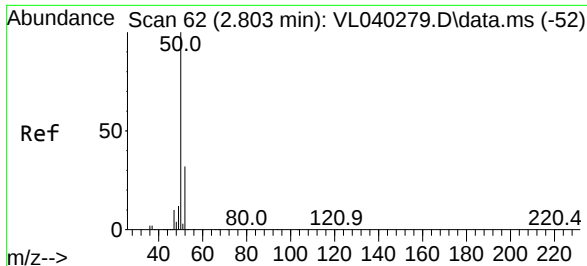
Tgt Ion: 49 Resp: 1051080
Ion Ratio Lower Upper
49 100
128 48.3 22.4 67.3
130 61.9 28.7 86.1



#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.665 min Scan# 19
Delta R.T. -0.000 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion: 51 Resp: 6051
Ion Ratio Lower Upper
51 100
67 39.7 16.0 24.0

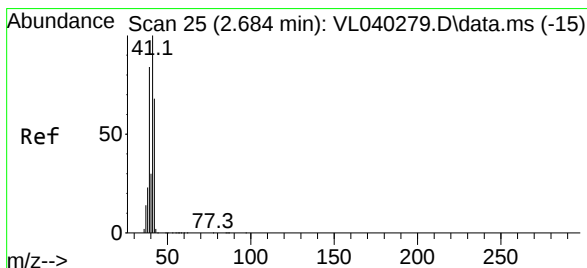
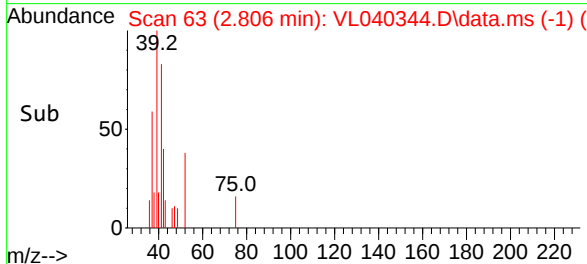
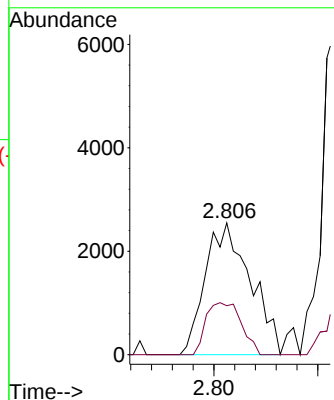
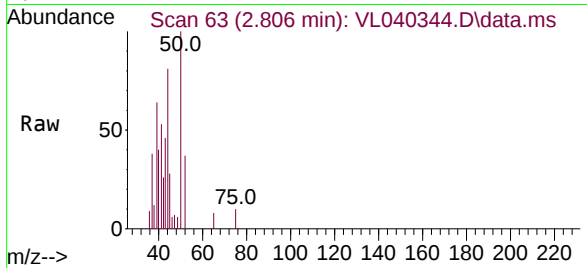




#4
Chloromethane
Concen: 0.047 ppbv
RT: 2.806 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

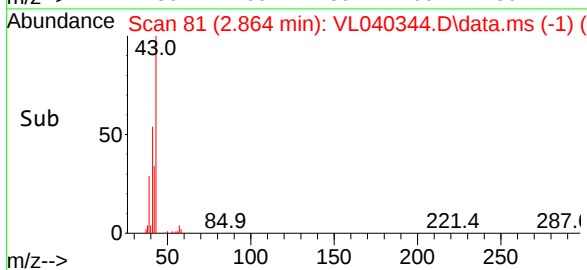
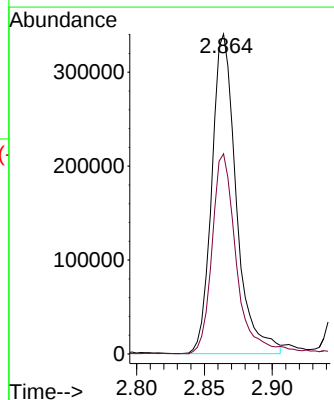
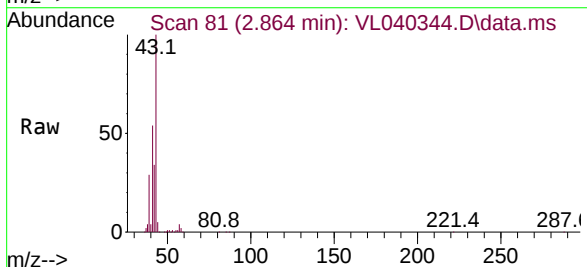
Instrument :
MSVOA_L
ClientSampleId :
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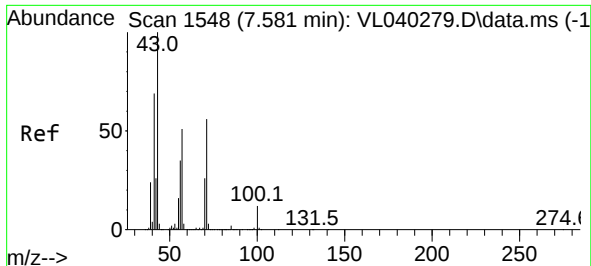
Tgt Ion: 50 Resp: 3836
Ion Ratio Lower Upper
50 100
52 37.2 25.9 38.9



#9
Propene
Concen: 8.447 ppbv
RT: 2.864 min Scan# 81
Delta R.T. 0.180 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion: 41 Resp: 427719
Ion Ratio Lower Upper
41 100
42 62.7 59.0 88.4

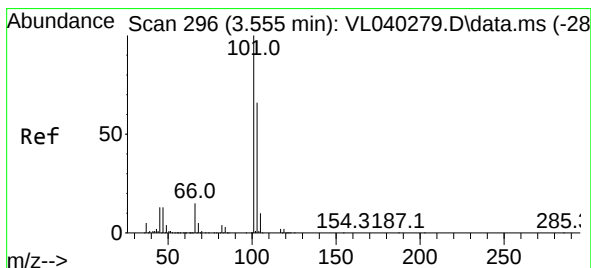
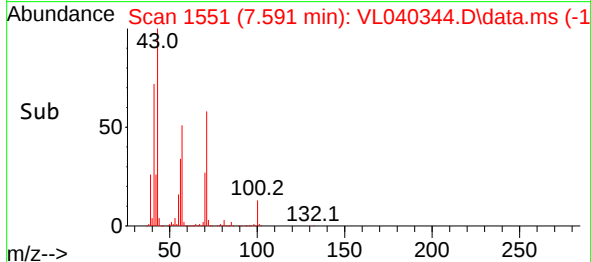
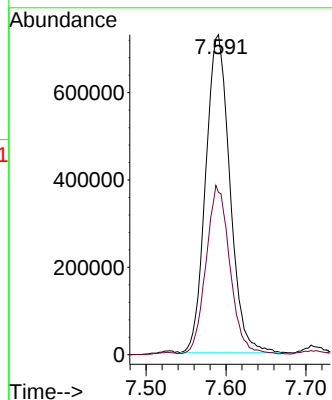
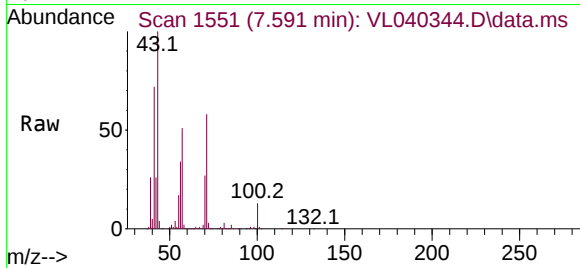




#10
Heptane
Concen: 12.585 ppbv
RT: 7.591 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

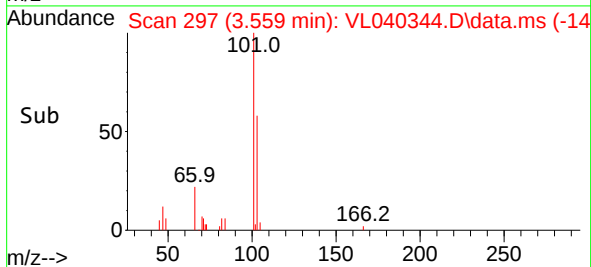
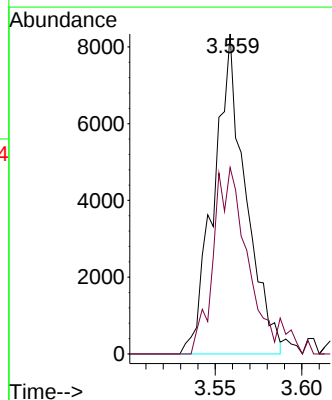
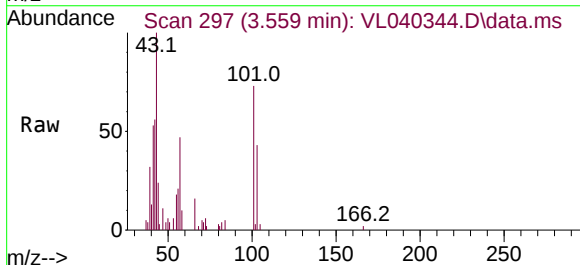
Instrument :
MSVOA_L
ClientSampleId :
SV1

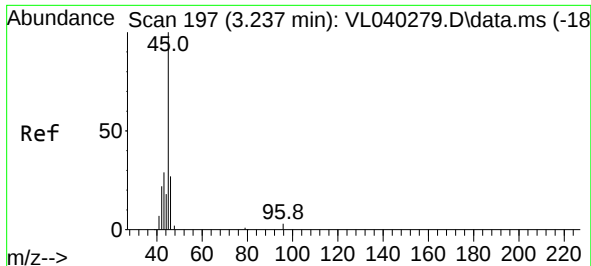
Tgt Ion: 43 Resp: 1532698
Ion Ratio Lower Upper
43 100
57 53.5 41.7 62.5



#11
Trichlorofluoromethane
Concen: 0.057 ppbv
RT: 3.559 min Scan# 297
Delta R.T. 0.004 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion:101 Resp: 10652
Ion Ratio Lower Upper
101 100
103 58.3 53.1 79.7

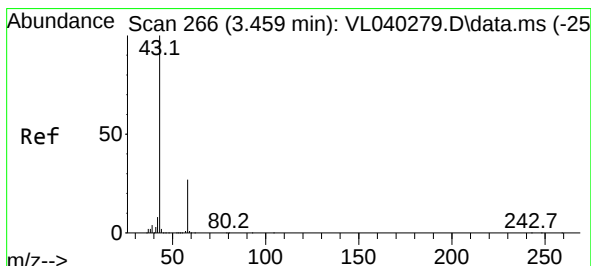
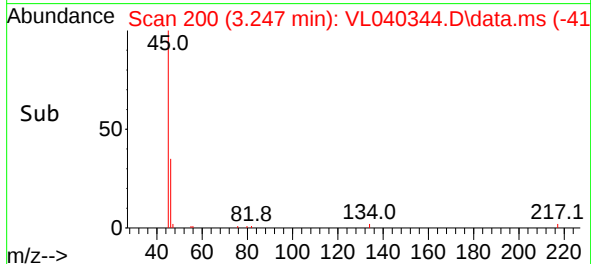
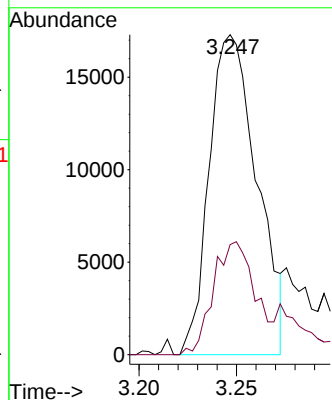
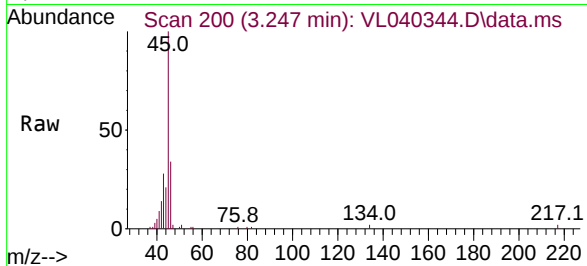




#13
 Ethanol
 Concen: 7.928 ppbv
 RT: 3.247 min Scan# 20
 Delta R.T. 0.010 min
 Lab File: VL040344.D
 Acq: 12 Apr 2023 18:30

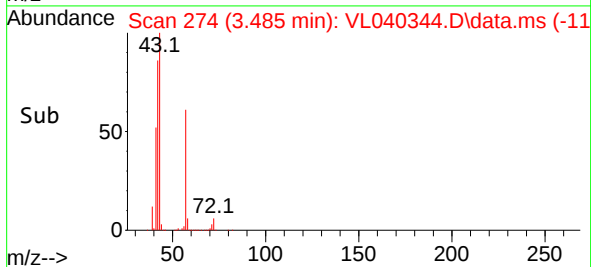
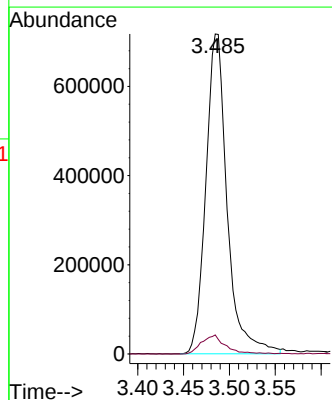
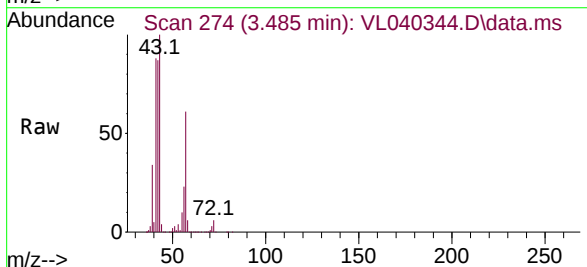
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

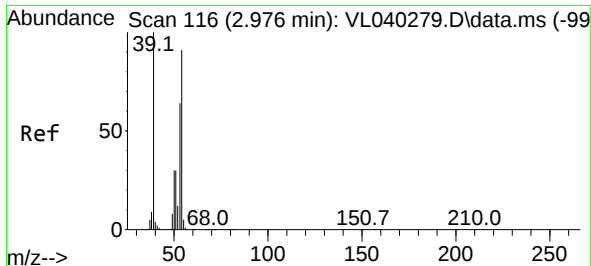
Tgt Ion: 45 Resp: 29442
 Ion Ratio Lower Upper
 45 100
 46 43.6 15.0 60.2



#15
 Acetone
 Concen: 9.036 ppbv
 RT: 3.485 min Scan# 274
 Delta R.T. 0.026 min
 Lab File: VL040344.D
 Acq: 12 Apr 2023 18:30

Tgt Ion: 43 Resp: 1156305
 Ion Ratio Lower Upper
 43 100
 58 6.8 21.8 32.8#

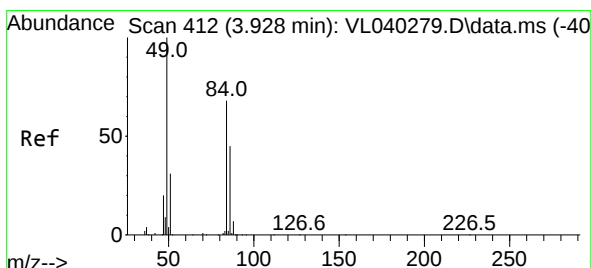
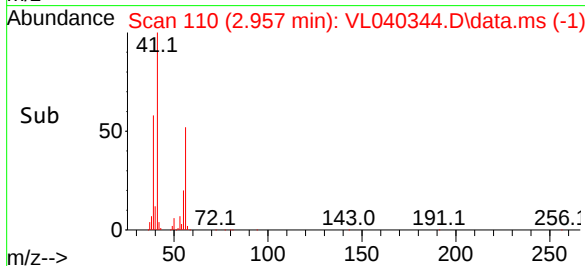
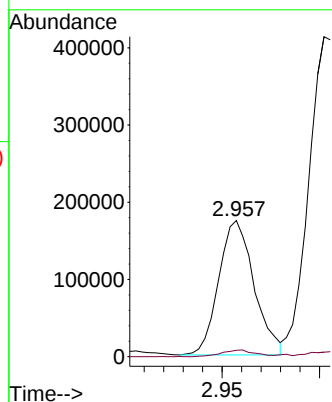
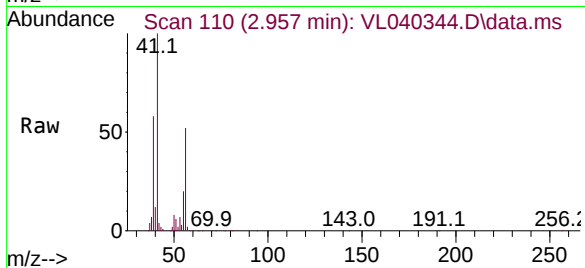




#16
1,3-Butadiene
Concen: 3.774 ppbv
RT: 2.957 min Scan# 116
Delta R.T. -0.019 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

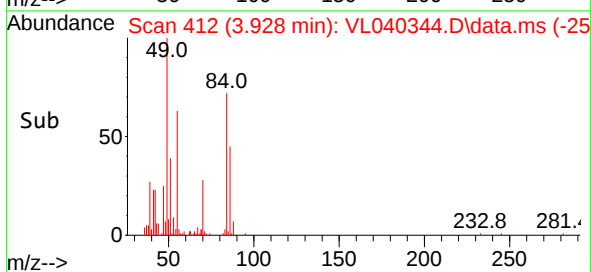
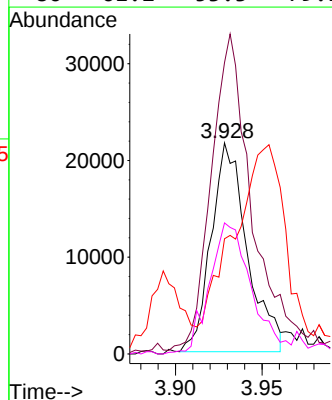
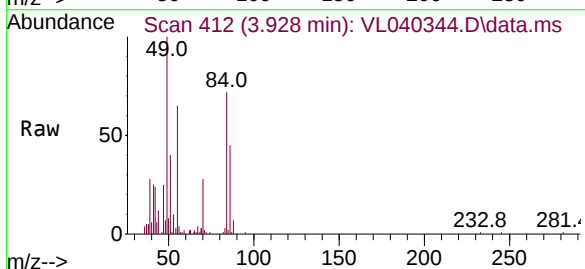
Instrument :
MSVOA_L
ClientSampleId :
SV1

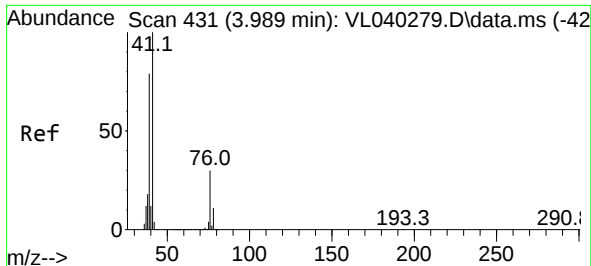
Tgt Ion: 39 Resp: 219487
Ion Ratio Lower Upper
39 100
54 4.6 68.4 102.6#



#20
Methylene Chloride
Concen: 0.581 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion: 84 Resp: 31286
Ion Ratio Lower Upper
84 100
49 135.1 117.5 176.3
51 33.2 36.9 55.3#
86 61.2 53.3 79.9





#21

Allyl Chloride

Concen: 1.926 ppbv

RT: 3.951 min Scan# 41

Delta R.T. -0.038 min

Lab File: VL040344.D

Acq: 12 Apr 2023 18:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

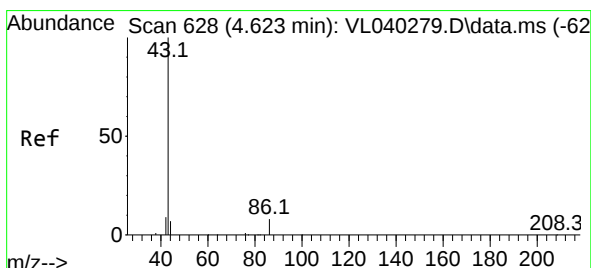
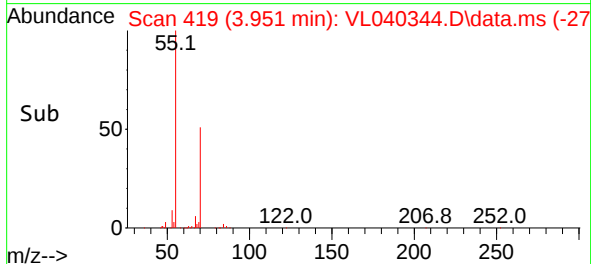
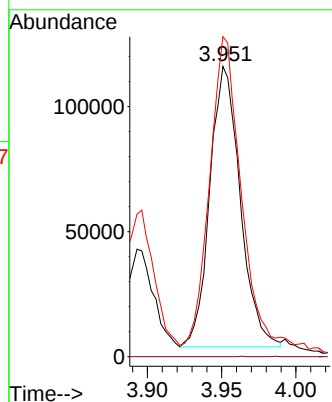
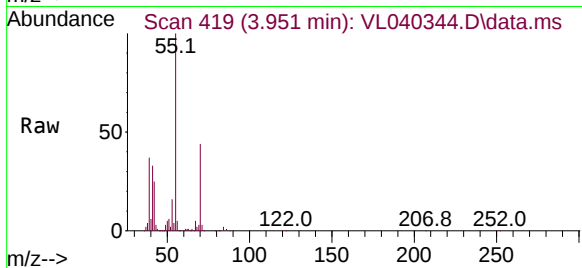
Tgt Ion: 41 Resp: 159655

Ion Ratio Lower Upper

41 100

76 3.4 25.4 38.0#

39 128.5 65.4 98.2#



#23

Vinyl Acetate

Concen: 4.417 ppbv

RT: 4.604 min Scan# 622

Delta R.T. -0.019 min

Lab File: VL040344.D

Acq: 12 Apr 2023 18:30

Tgt Ion: 43 Resp: 157255

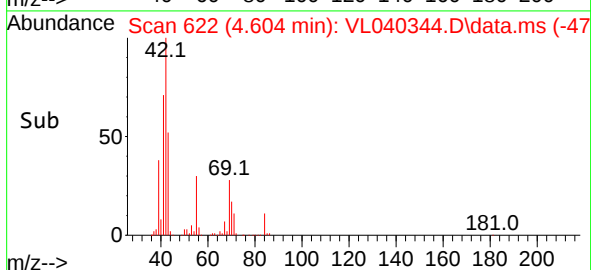
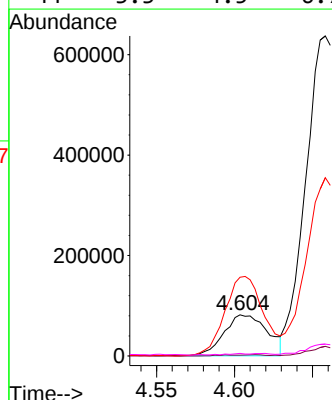
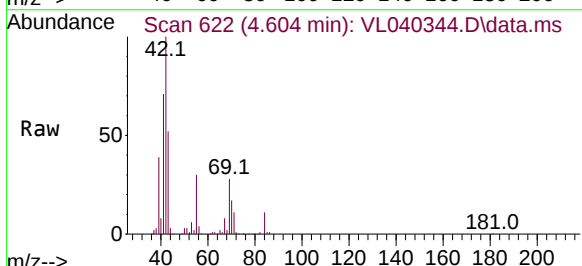
Ion Ratio Lower Upper

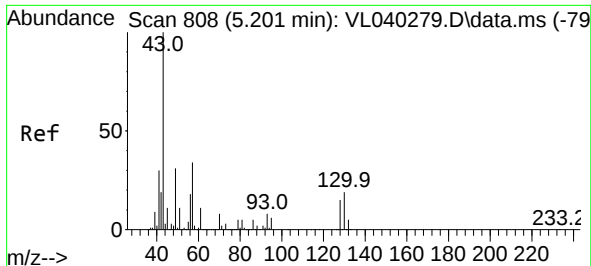
43 100

86 2.1 5.0 7.4#

42 191.9 9.1 13.7#

44 3.3 4.5 6.7#

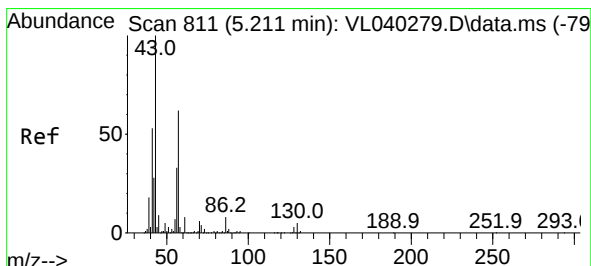
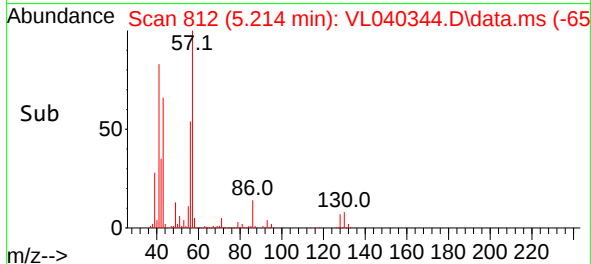
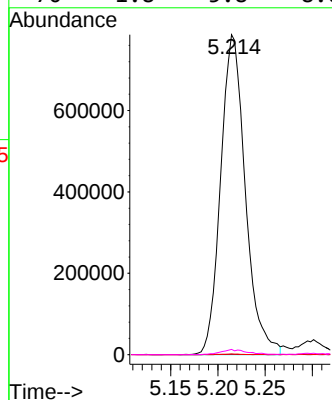
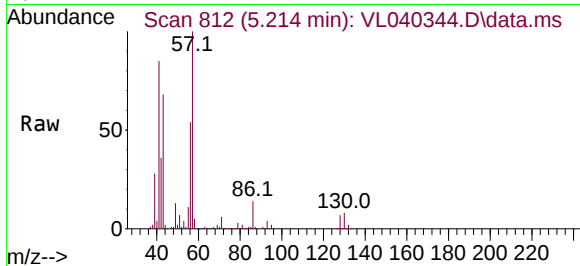




#25
Ethyl Acetate
Concen: 5.965 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.013 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

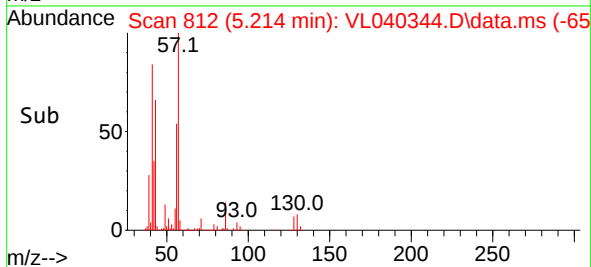
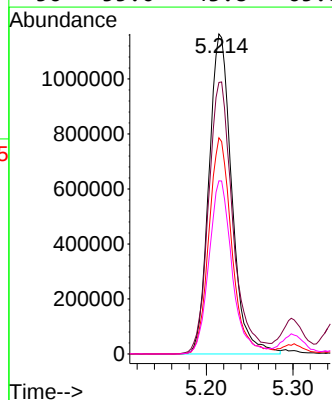
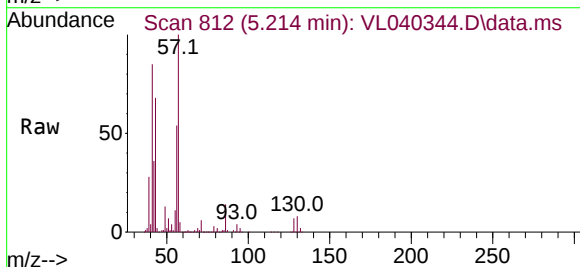
Instrument :
MSVOA_L
ClientSampleId :
SV1

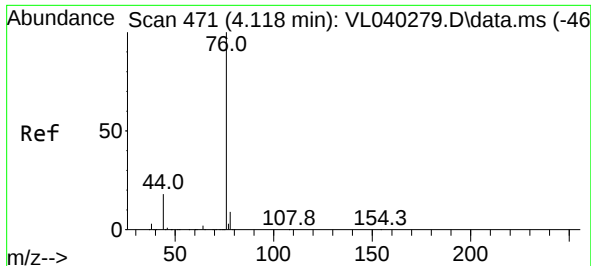
Tgt Ion: 43 Resp: 1428903
Ion Ratio Lower Upper
43 100
45 0.2 8.6 12.8#
61 0.2 8.4 12.6#
70 1.8 5.8 8.6#



#26
Hexane
Concen: 21.703 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion: 57 Resp: 2134230
Ion Ratio Lower Upper
57 100
41 90.9 73.5 110.3
43 67.5 196.3 294.5#
56 55.0 43.8 65.8





#27

Carbon Disulfide

Concen: 0.034 ppbv

RT: 4.121 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL040344.D

Acq: 12 Apr 2023 18:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

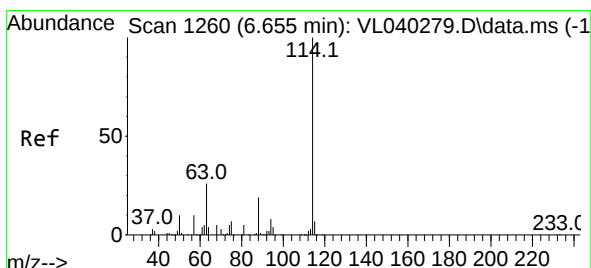
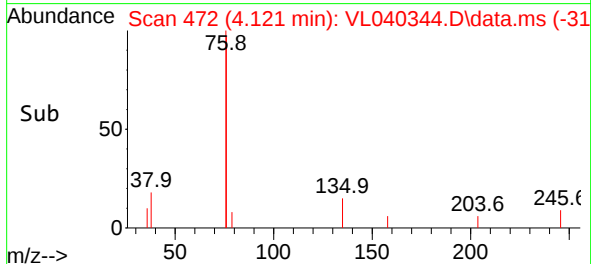
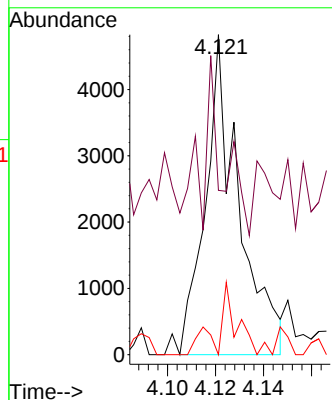
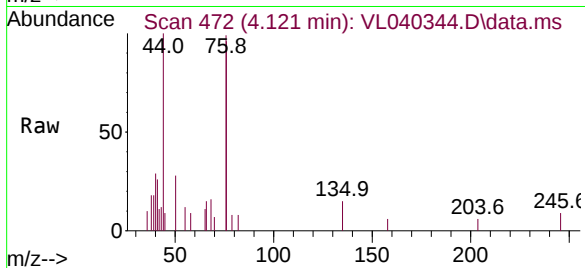
Tgt Ion: 76 Resp: 4628

Ion Ratio Lower Upper

76 100

44 0.0 15.2 22.8#

78 13.9 7.6 11.4#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. 0.003 min

Lab File: VL040344.D

Acq: 12 Apr 2023 18:30

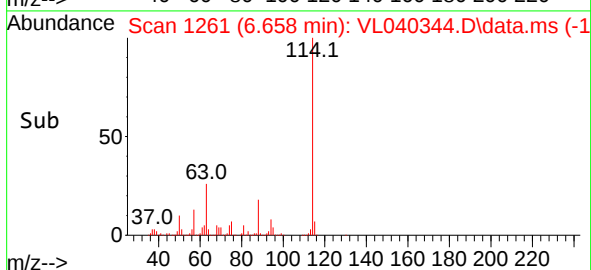
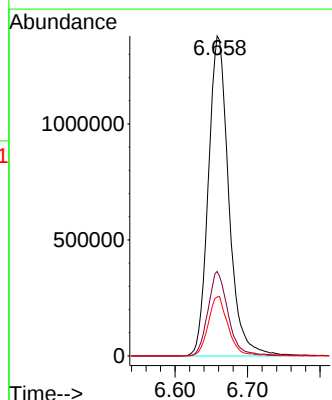
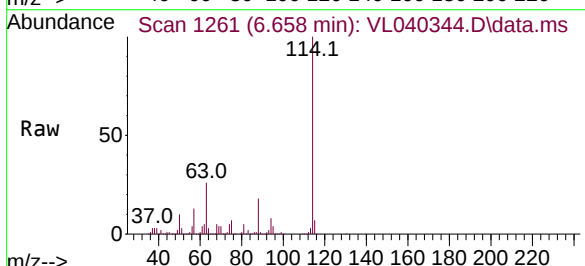
Tgt Ion: 114 Resp: 2695907

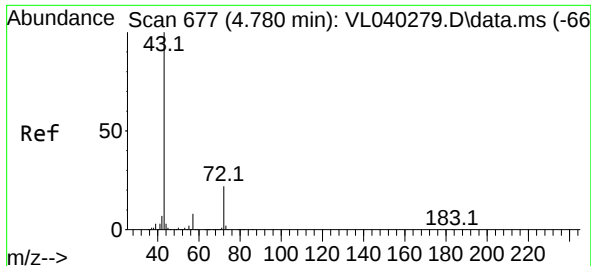
Ion Ratio Lower Upper

114 100

63 26.4 21.2 31.8

88 18.3 14.5 21.7

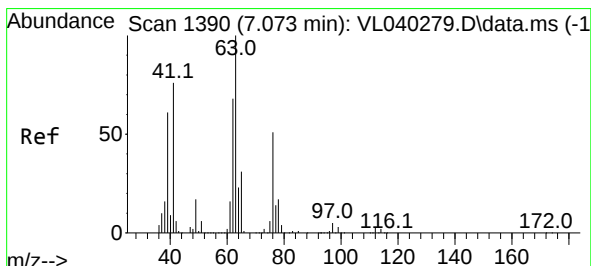
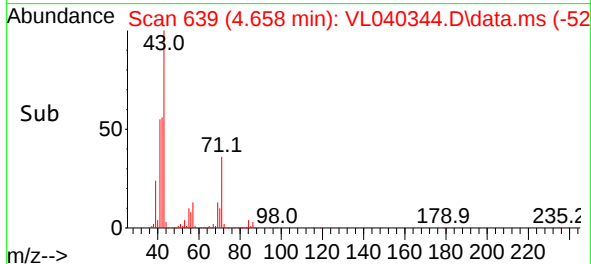
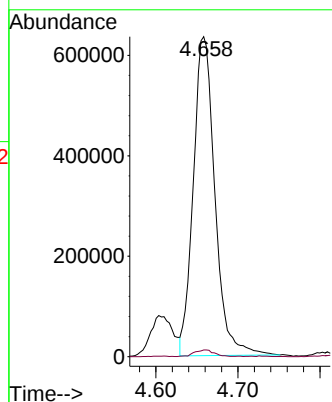
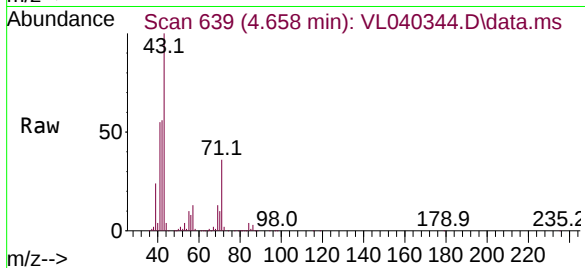




#34
2-Butanone
Concen: 8.741 ppbv
RT: 4.658 min Scan# 61
Delta R.T. -0.122 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

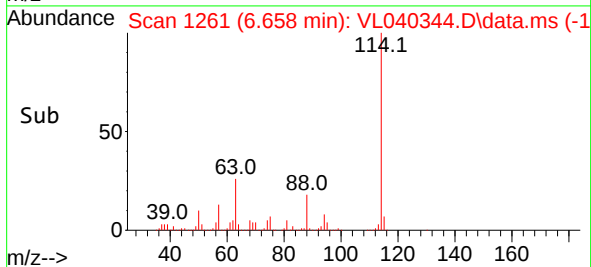
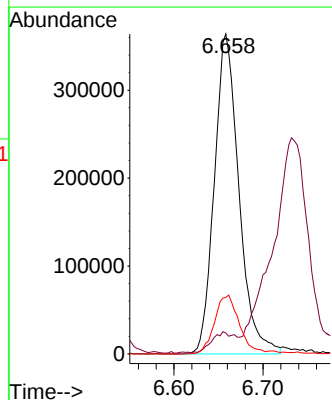
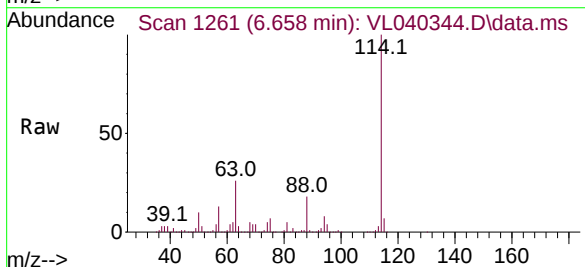
Instrument :
MSVOA_L
ClientSampleId :
SV1

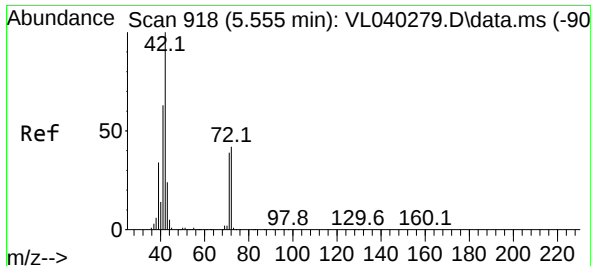
Tgt Ion: 43 Resp: 1162995
Ion Ratio Lower Upper
43 100
72 2.1 18.3 27.5#



#39
1,2-Dichloropropane
Concen: 8.671 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.415 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion: 63 Resp: 698958
Ion Ratio Lower Upper
63 100
41 6.1 60.8 91.2#
62 17.7 54.1 81.1#





#41

Tetrahydrofuran

Concen: 0.923 ppbv

RT: 5.497 min Scan# 90

Delta R.T. -0.058 min

Lab File: VL040344.D

Acq: 12 Apr 2023 18:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

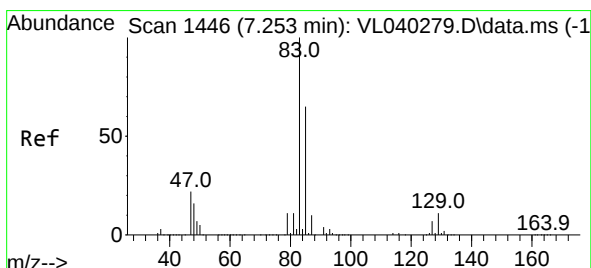
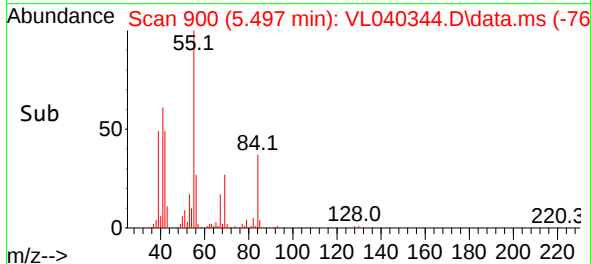
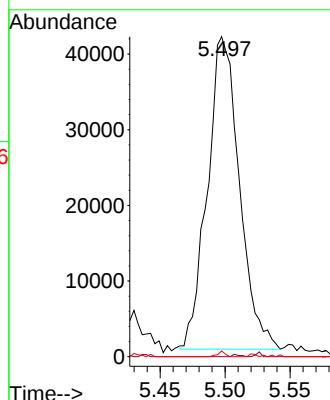
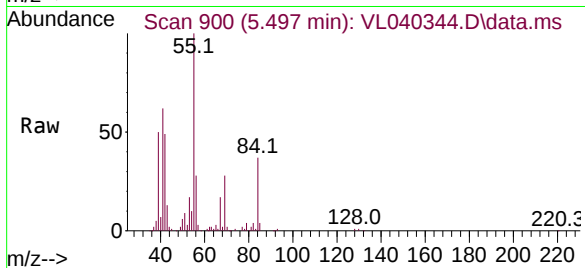
Tgt Ion: 42 Resp: 70854

Ion Ratio Lower Upper

42 100

72 0.4 32.6 49.0#

71 0.0 31.0 46.4#



#42

Bromodichloromethane

Concen: 0.083 ppbv

RT: 7.266 min Scan# 1450

Delta R.T. 0.013 min

Lab File: VL040344.D

Acq: 12 Apr 2023 18:30

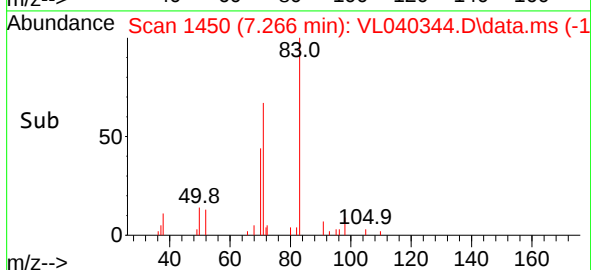
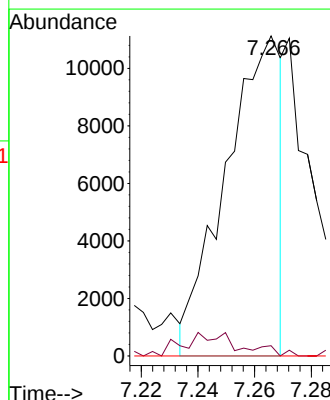
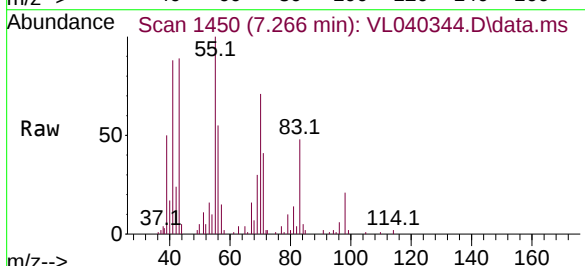
Tgt Ion: 83 Resp: 15120

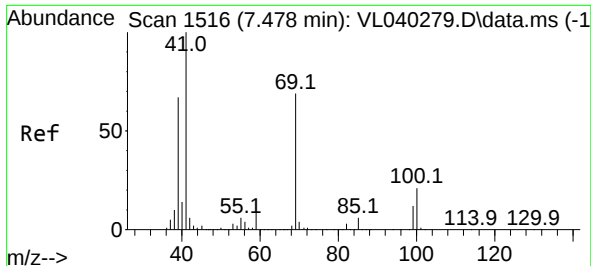
Ion Ratio Lower Upper

83 100

85 3.6 52.1 78.1#

127 0.0 5.8 8.6#

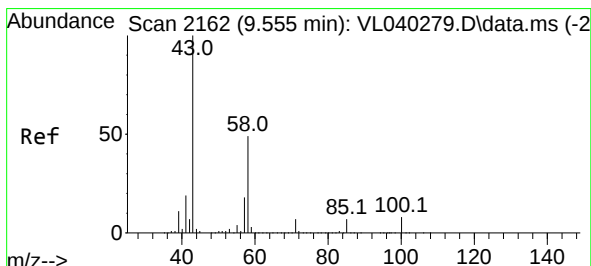
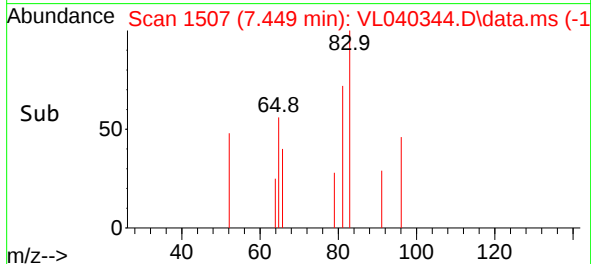
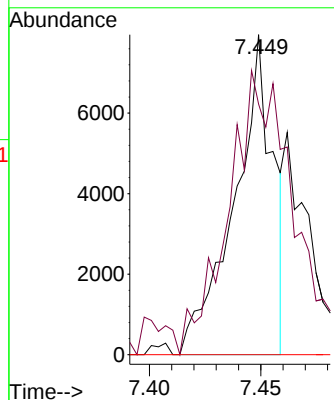
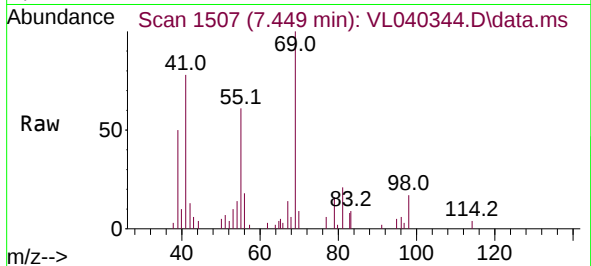




#43
Methyl Methacrylate
Concen: 0.125 ppbv
RT: 7.449 min Scan# 11
Delta R.T. -0.029 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

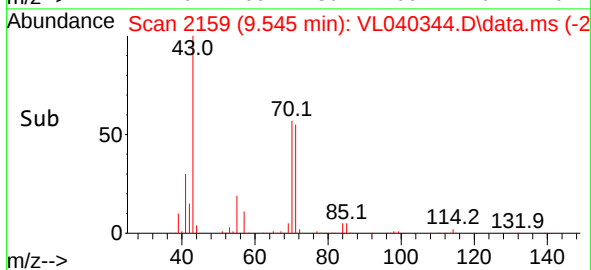
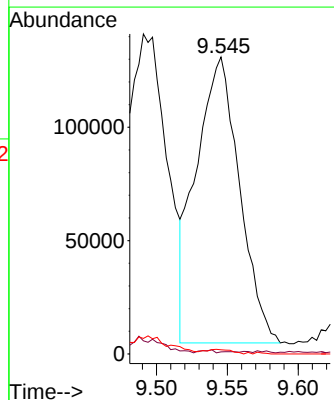
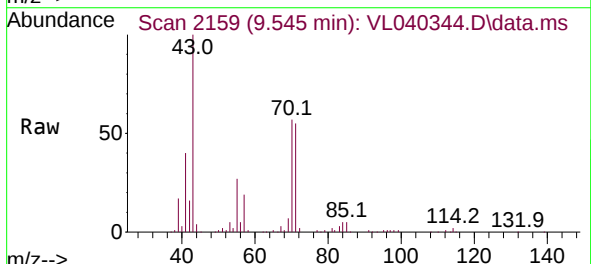
Instrument :
MSVOA_1
ClientSampleId :
SV1

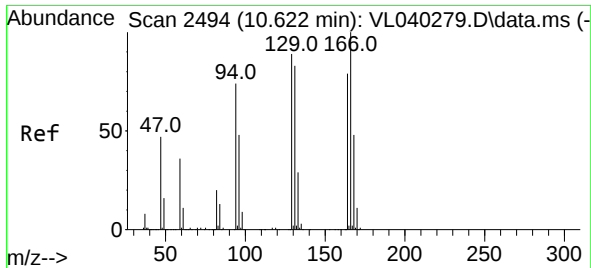
Tgt Ion: 69 Resp: 9526
Ion Ratio Lower Upper
69 100
41 0.0 116.9 175.3#
100 0.0 24.2 36.4#



#51
2-Hexanone
Concen: 1.683 ppbv
RT: 9.545 min Scan# 2159
Delta R.T. -0.010 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion: 43 Resp: 268498
Ion Ratio Lower Upper
43 100
58 1.0 38.0 57.0#
98 0.0 0.5 0.7#

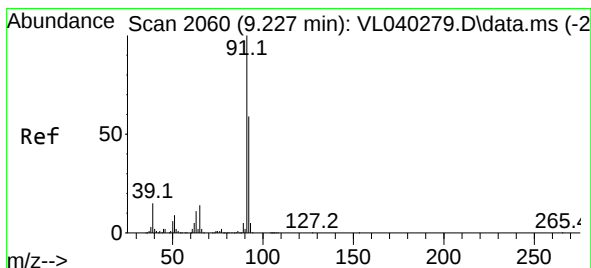
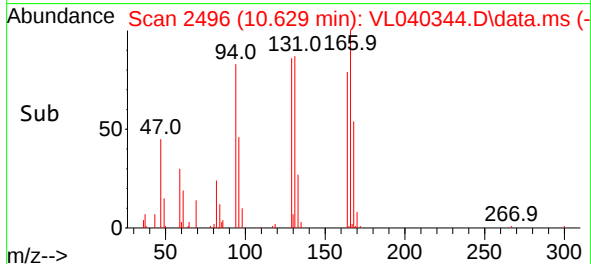
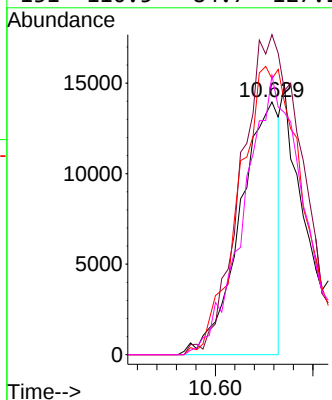
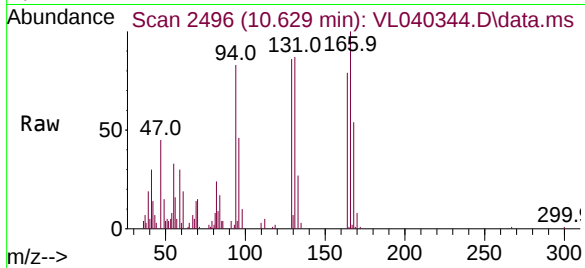




#52
Tetrachloroethene
Concen: 0.312 ppbv
RT: 10.629 min Scan# 2494
Delta R.T. 0.007 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

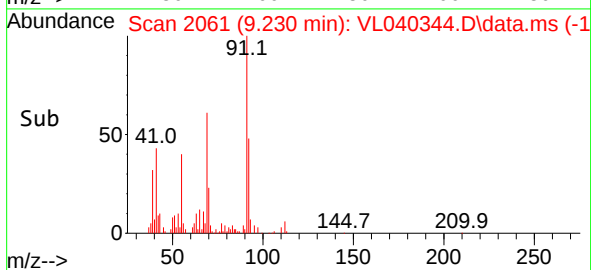
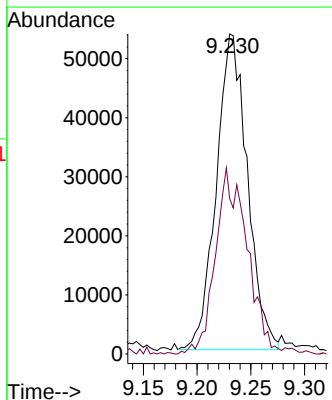
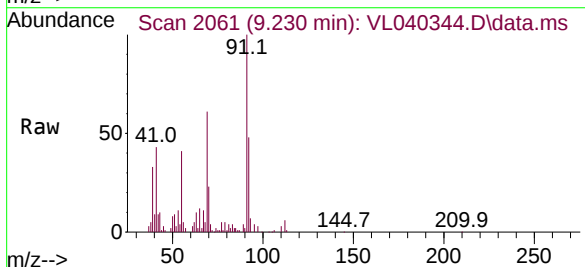
Instrument :
MSVOA_L
ClientSampleId :
SV1

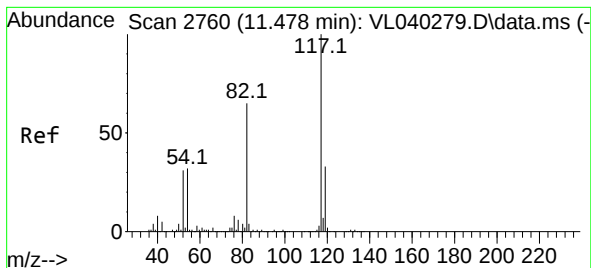
Tgt Ion:164 Resp: 19386
Ion Ratio Lower Upper
164 100
166 126.7 101.8 152.6
129 109.2 90.2 135.2
131 110.5 84.7 127.1



#53
Toluene
Concen: 0.500 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

Tgt Ion: 91 Resp: 107620
Ion Ratio Lower Upper
91 100
92 61.0 48.0 72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.481 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040344.D

Acq: 12 Apr 2023 18:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

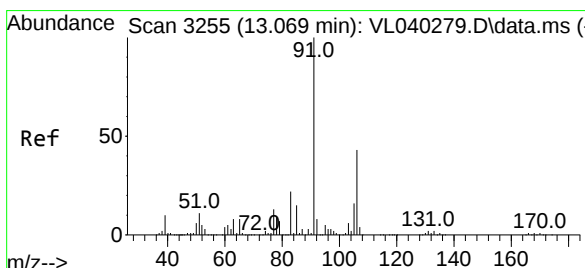
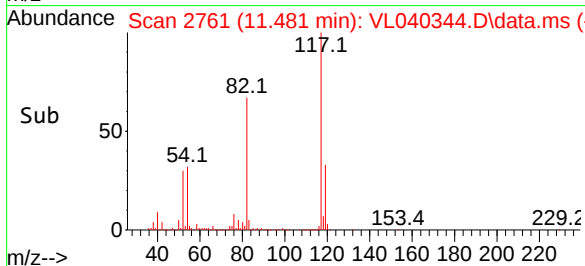
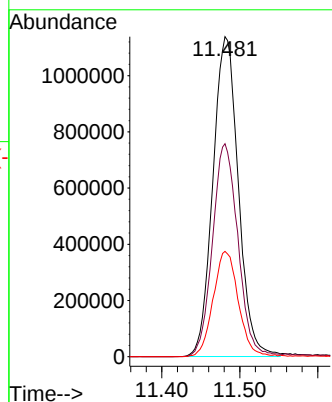
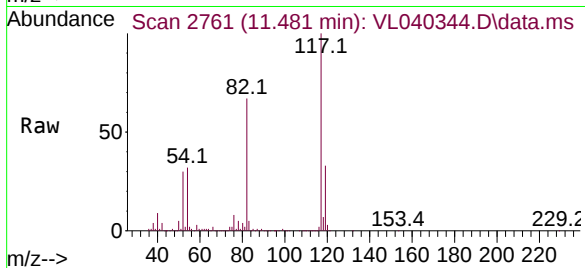
Tgt Ion:117 Resp: 2584266

Ion Ratio Lower Upper

117 100

82 67.8 51.4 77.2

119 32.7 24.0 36.0



#60

o-Xylene

Concen: 0.051 ppbv

RT: 13.073 min Scan# 3256

Delta R.T. 0.004 min

Lab File: VL040344.D

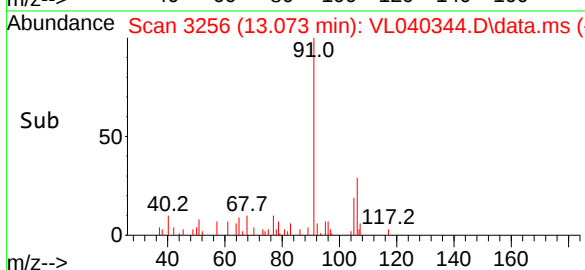
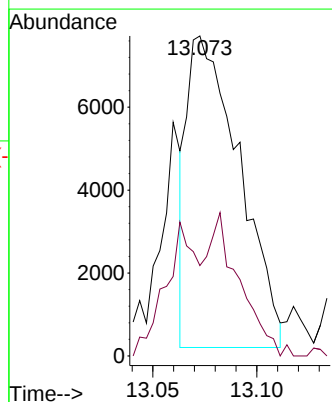
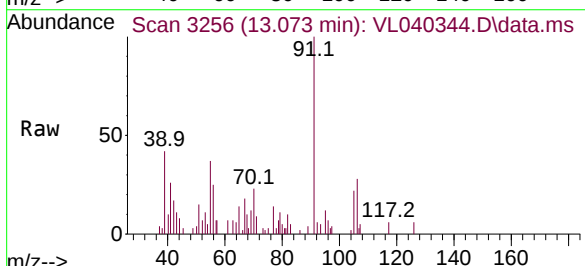
Acq: 12 Apr 2023 18:30

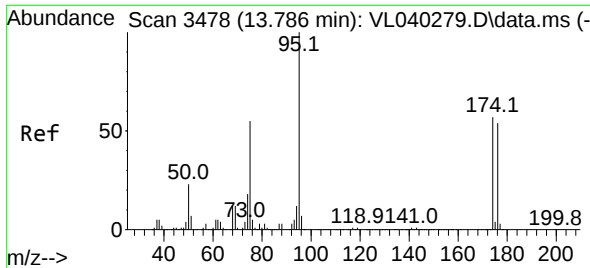
Tgt Ion: 91 Resp: 13109

Ion Ratio Lower Upper

91 100

106 54.1 21.7 65.1

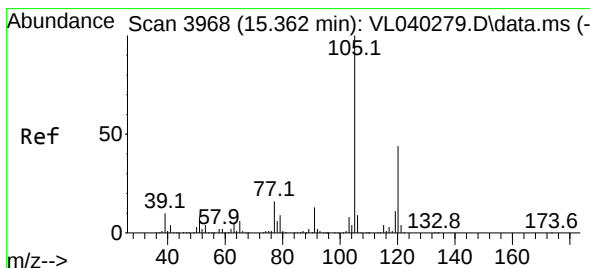
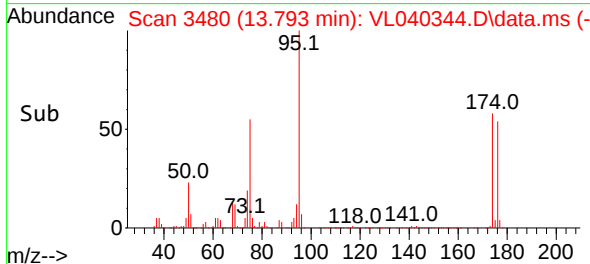
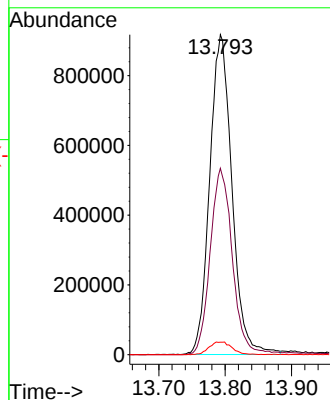
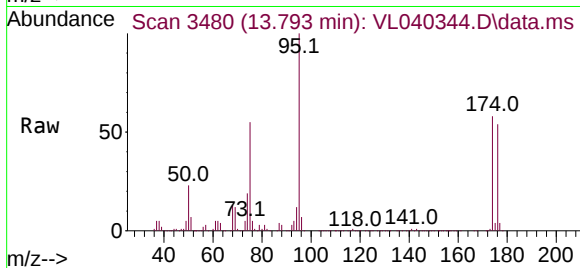




#68
1-Bromo-4-Fluorobenzene
Concen: 9.860 ppbv
RT: 13.793 min Scan# 3478
Delta R.T. 0.007 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

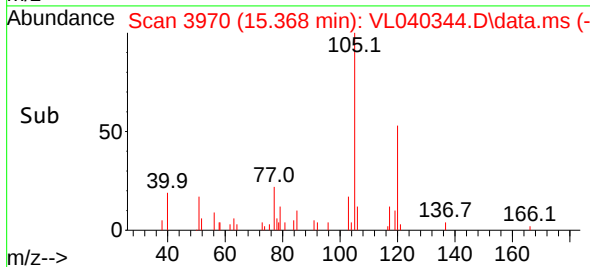
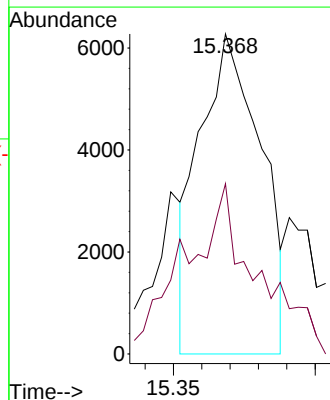
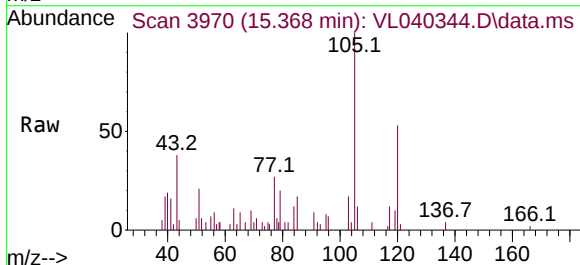
Instrument :
MSVOA_1
ClientSampleId :
SV1

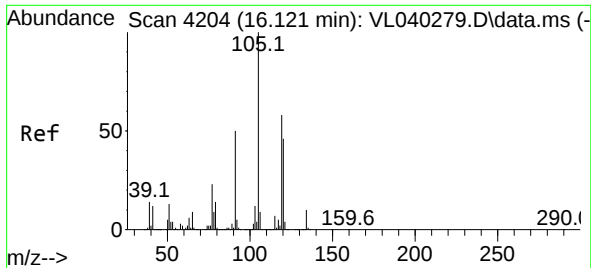
Tgt Ion: 95 Resp: 2133887
Ion Ratio Lower Upper
95 100
174 59.4 47.0 70.6
175 4.1 3.4 5.2



#73
1,3,5-Trimethylbenzene
Concen: 0.037 ppbv
RT: 15.368 min Scan# 3970
Delta R.T. 0.006 min
Lab File: VL040344.D
Acq: 12 Apr 2023 18:30

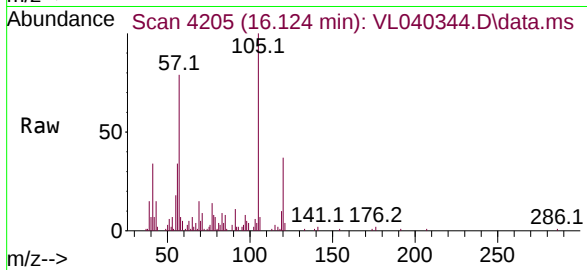
Tgt Ion: 105 Resp: 9430
Ion Ratio Lower Upper
105 100
120 45.7 34.9 52.3





#74
 1,2,4-Trimethylbenzene
 Concen: 0.212 ppbv
 RT: 16.124 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL040344.D
 Acq: 12 Apr 2023 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	61690
Ion	Ratio	Lower	Upper
105	100		
120	37.3	36.6	54.8
91	6.2	39.9	59.9#
77	11.5	18.6	27.8#

