

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061523\
 Data File : VL040479.D
 Acq On : 15 Jun 2023 23:03
 Operator : SY/MD
 Sample : 03250-05DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-06DL

Quant Time: Jun 16 05:42:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jun 06 06:22:12 2023
 Response via : Initial Calibration

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

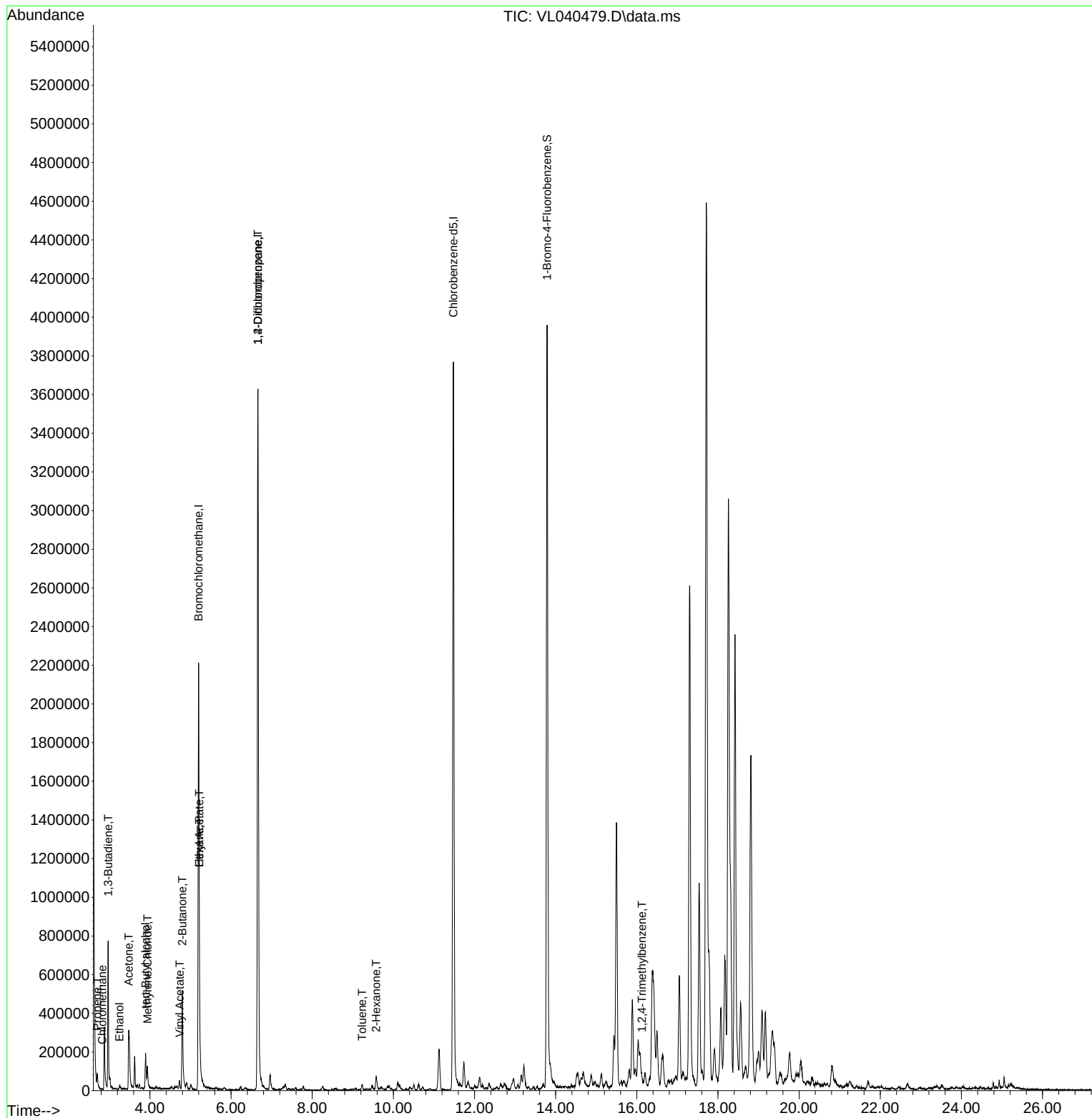
Internal Standards						
1) Bromochloromethane	5.201	49	1108619	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.661	114	2889993	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2588422	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	2053664	9.613	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.100%
Target Compounds						
					Qvalue	
4) Chloromethane	2.825	50	2220	0.032	ppbv	96
9) Propene	2.700	41	25402	0.454	ppbv	93
13) Ethanol	3.250	45	8848	0.763	ppbv #	11
15) Acetone	3.478	43	296736	2.219	ppbv #	9
16) 1,3-Butadiene	2.970	39	193585	2.974	ppbv #	13
17) tert-Butyl alcohol	3.893	59	165452	1.505	ppbv	97
20) Methylene Chloride	3.941	84	29942	0.525	ppbv #	92
23) Vinyl Acetate	4.732	43	9059	0.069	ppbv #	30
25) Ethyl Acetate	5.218	43	48537	0.200	ppbv #	81
26) Hexane	5.218	57	72838	0.635	ppbv #	42
34) 2-Butanone	4.796	43	613209	4.400	ppbv	99
39) 1,2-Dichloropropane	6.661	63	697731	7.874	ppbv #	22
51) 2-Hexanone	9.574	43	59934	0.463	ppbv #	91
53) Toluene	9.230	91	9116	0.038	ppbv #	27
74) 1,2,4-Trimethylbenzene	16.127	105	10334	0.032	ppbv #	64

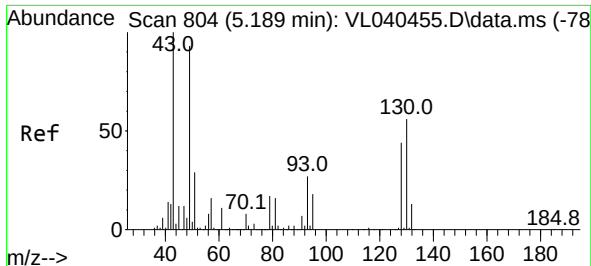
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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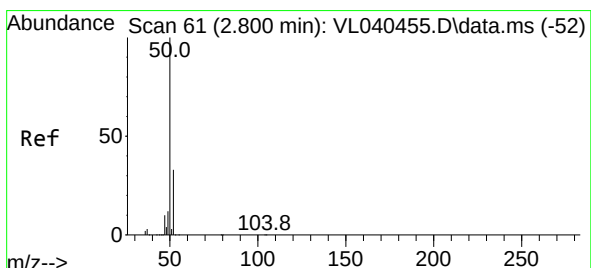
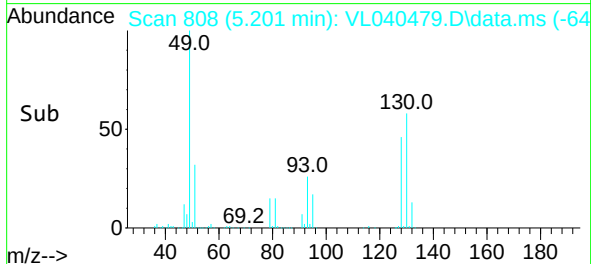
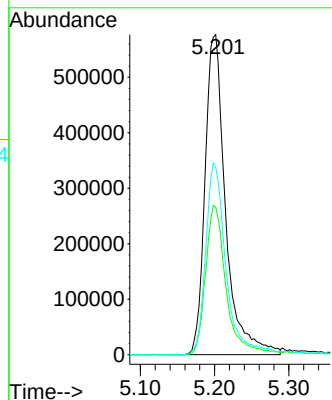
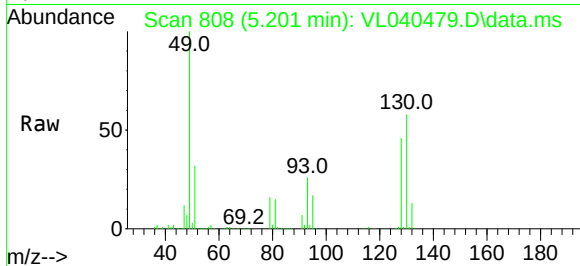




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 804
Delta R.T. 0.012 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

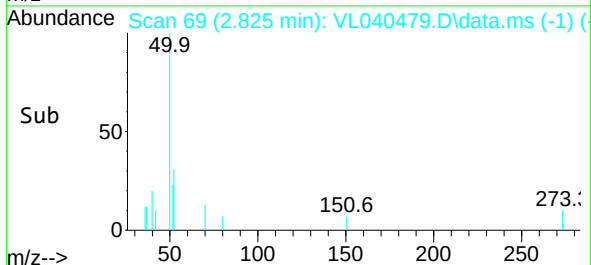
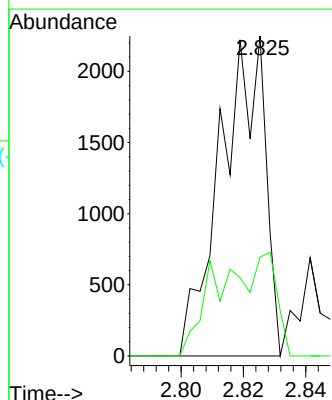
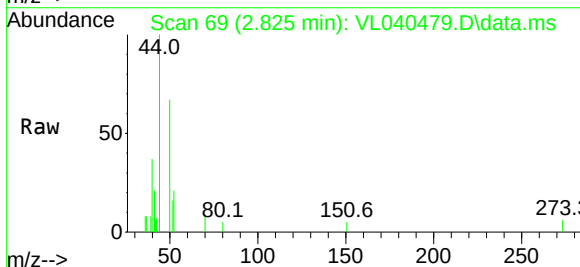
Instrument :
MSVOA_L
ClientSampleId :
SVP-06DL

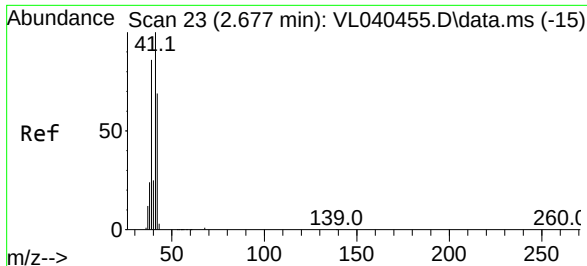
Tgt Ion: 49 Resp: 1108619
Ion Ratio Lower Upper
49 100
128 47.8 24.7 74.1
130 60.6 31.4 94.2



#4
Chloromethane
Concen: 0.032 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.026 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

Tgt Ion: 50 Resp: 2220
Ion Ratio Lower Upper
50 100
52 30.9 26.3 39.5





#9

Propene

Concen: 0.454 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.023 min

Lab File: VL040479.D

Acq: 15 Jun 2023 23:03

Instrument :

MSVOA_1

ClientSampleId :

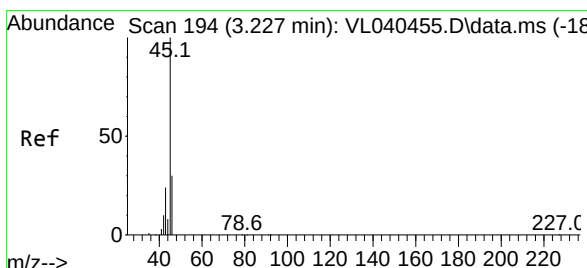
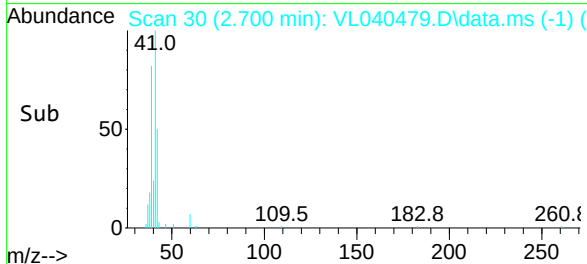
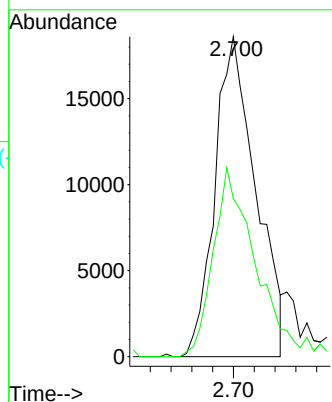
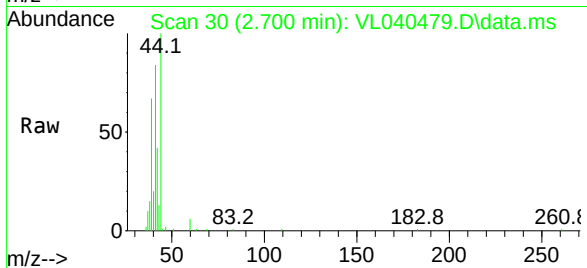
SVP-06DL

Tgt Ion: 41 Resp: 25402

Ion Ratio Lower Upper

41 100

42 64.3 56.2 84.2



#13

Ethanol

Concen: 0.763 ppbv

RT: 3.250 min Scan# 201

Delta R.T. 0.023 min

Lab File: VL040479.D

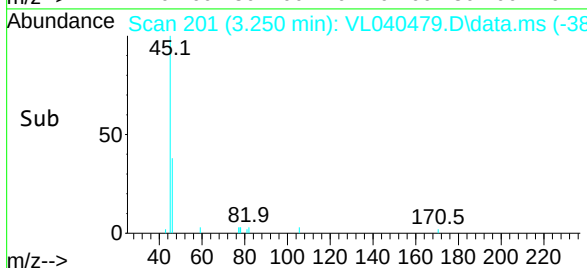
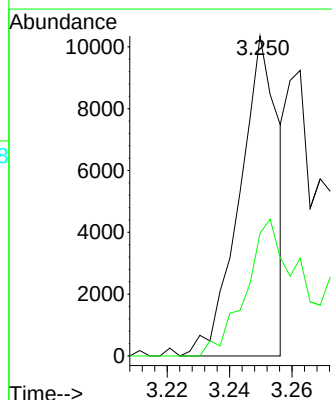
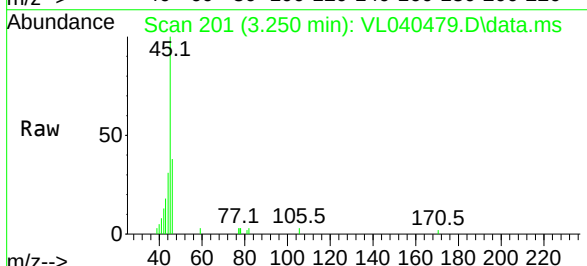
Acq: 15 Jun 2023 23:03

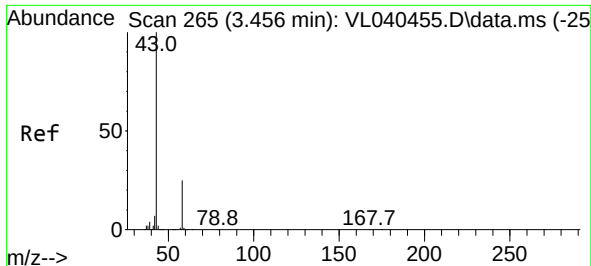
Tgt Ion: 45 Resp: 8848

Ion Ratio Lower Upper

45 100

46 89.0 14.5 58.1#





#15

Acetone

Concen: 2.219 ppbv

RT: 3.478 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL040479.D

Acq: 15 Jun 2023 23:03

Instrument :

MSVOA_L

ClientSampleId :

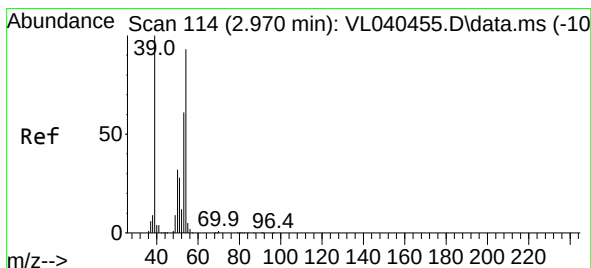
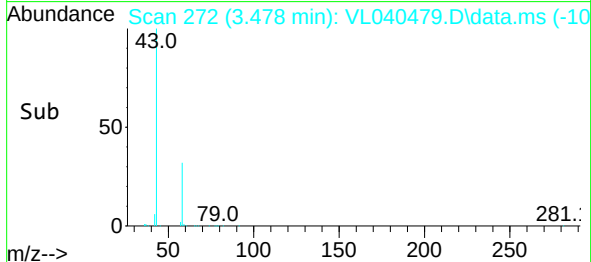
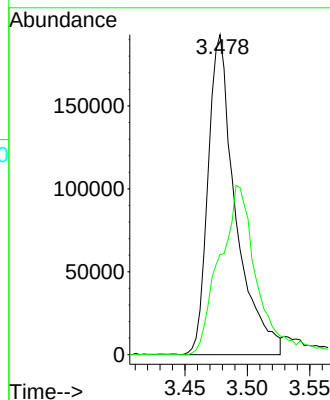
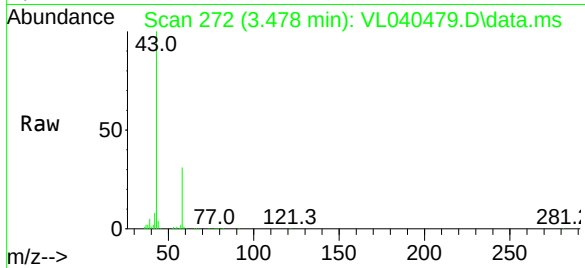
SVP-06DL

Tgt Ion: 43 Resp: 296736

Ion Ratio Lower Upper

43 100

58 74.3 21.6 32.4#



#16

1,3-Butadiene

Concen: 2.974 ppbv

RT: 2.970 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL040479.D

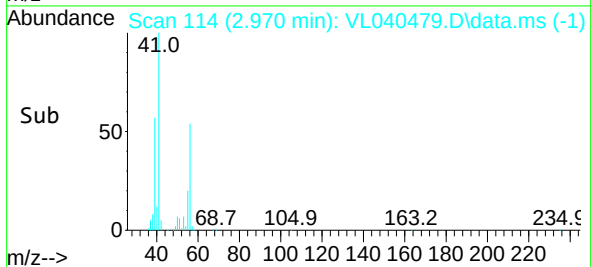
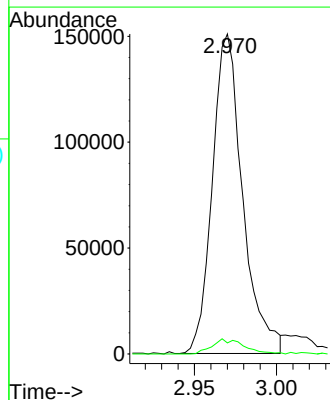
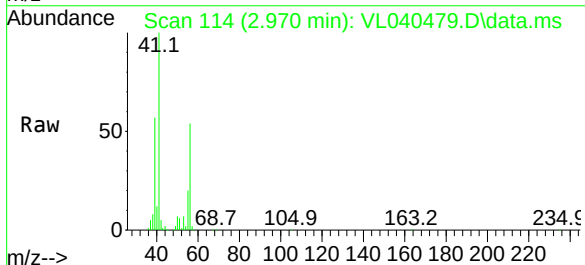
Acq: 15 Jun 2023 23:03

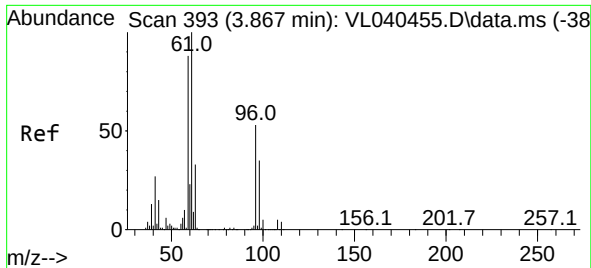
Tgt Ion: 39 Resp: 193585

Ion Ratio Lower Upper

39 100

54 5.3 66.9 100.3#

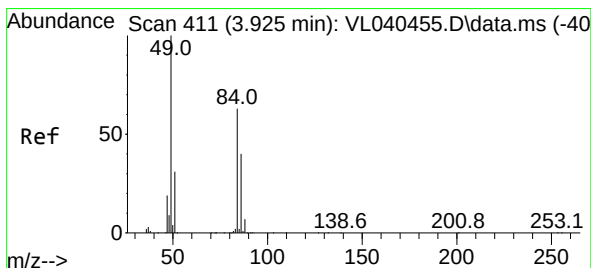
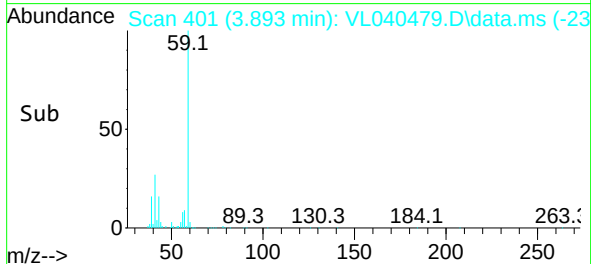
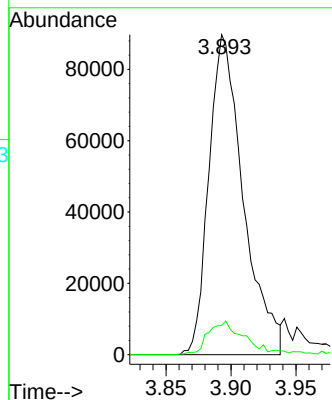
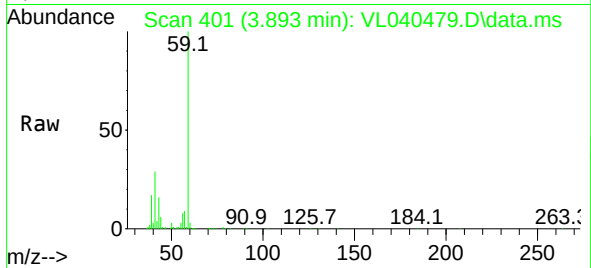




#17
 tert-Butyl alcohol
 Concen: 1.505 ppbv
 RT: 3.893 min Scan# 410
 Delta R.T. 0.026 min
 Lab File: VL040479.D
 Acq: 15 Jun 2023 23:03

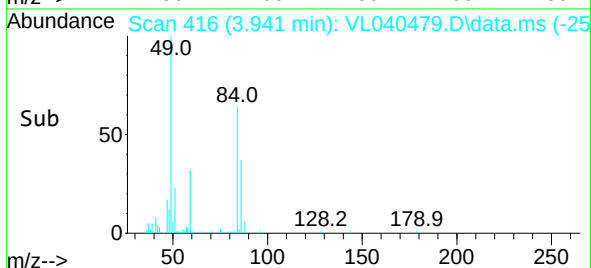
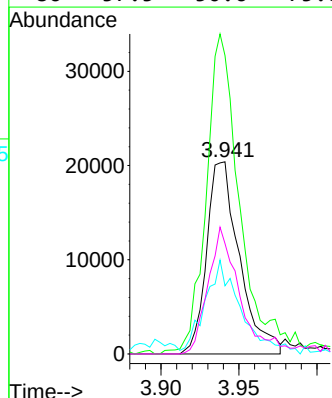
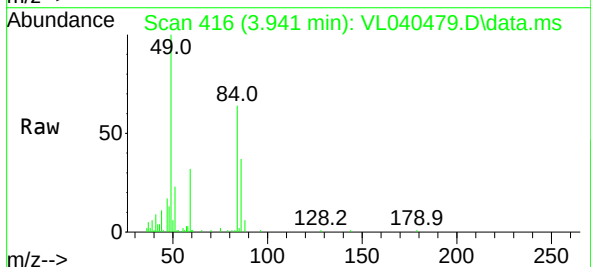
Instrument :
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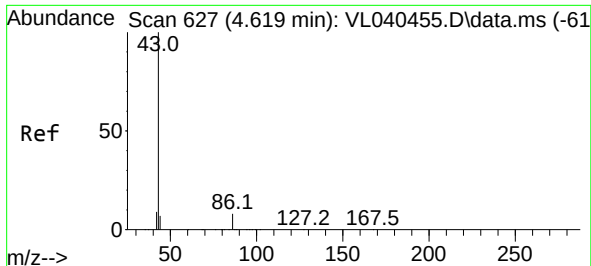
Tgt Ion: 59 Resp: 165452
 Ion Ratio Lower Upper
 59 100
 57 12.1 8.8 13.2



#20
 Methylene Chloride
 Concen: 0.525 ppbv
 RT: 3.941 min Scan# 416
 Delta R.T. 0.016 min
 Lab File: VL040479.D
 Acq: 15 Jun 2023 23:03

Tgt Ion: 84 Resp: 29942
 Ion Ratio Lower Upper
 84 100
 49 152.8 126.2 189.2
 51 33.7 38.7 58.1#
 86 57.5 50.6 75.8

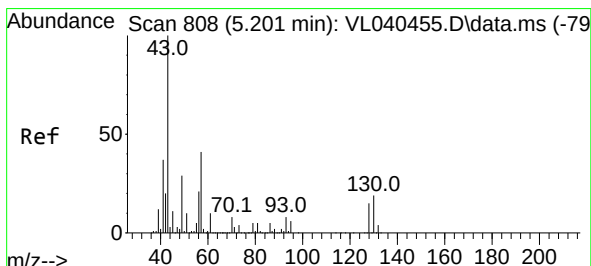
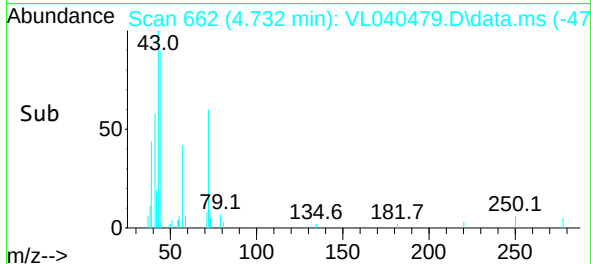
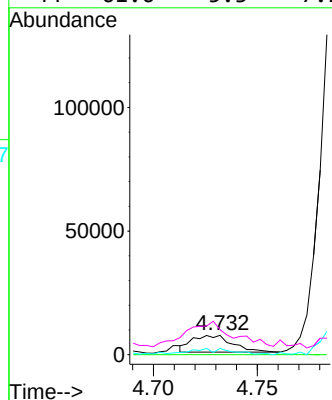
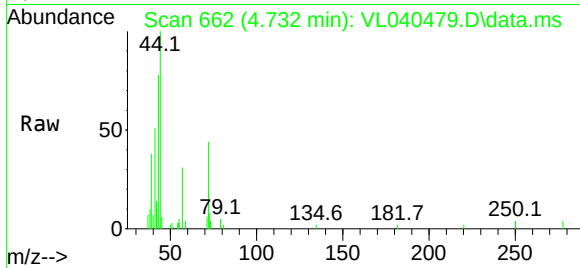




#23
 Vinyl Acetate
 Concen: 0.069 ppbv
 RT: 4.732 min Scan# 61
 Delta R.T. 0.113 min
 Lab File: VL040479.D
 Acq: 15 Jun 2023 23:03

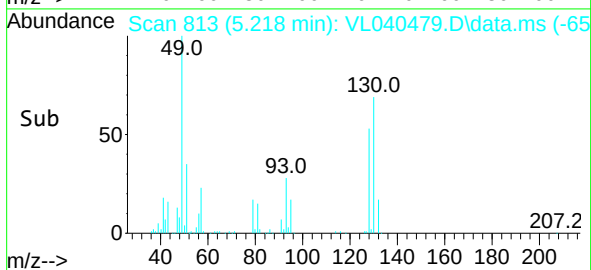
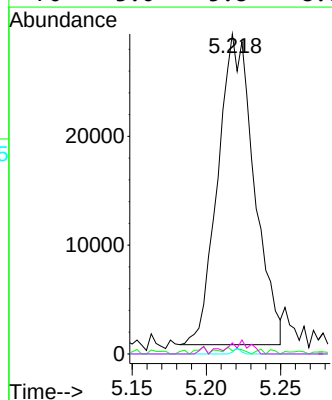
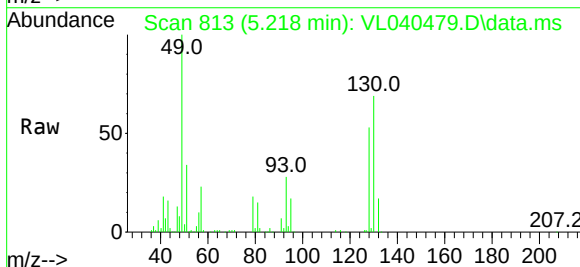
Instrument :
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 ClientSampleId :
 SVP-06DL

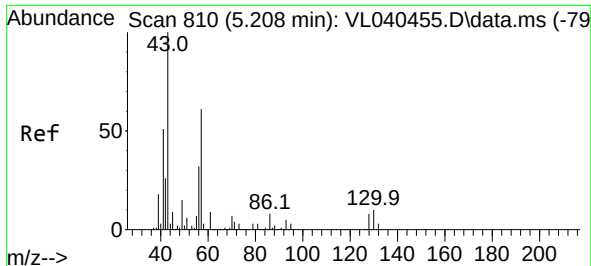
Tgt Ion: 43	Resp:	9059
Ion	Ratio	Lower Upper
43	100	
86	0.0	5.8 8.6#
42	25.0	7.4 11.2#
44	61.6	5.3 7.9#



#25
 Ethyl Acetate
 Concen: 0.200 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.016 min
 Lab File: VL040479.D
 Acq: 15 Jun 2023 23:03

Tgt Ion: 43	Resp:	48537
Ion	Ratio	Lower Upper
43	100	
45	3.6	8.0 12.0#
61	0.4	8.1 12.1#
70	3.0	5.8 8.6#

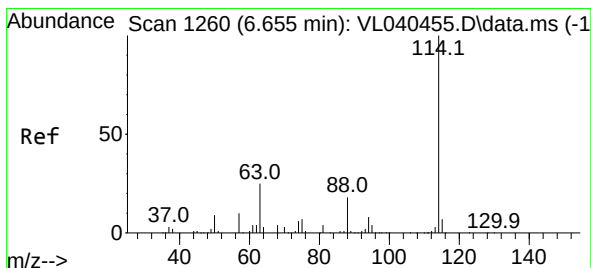
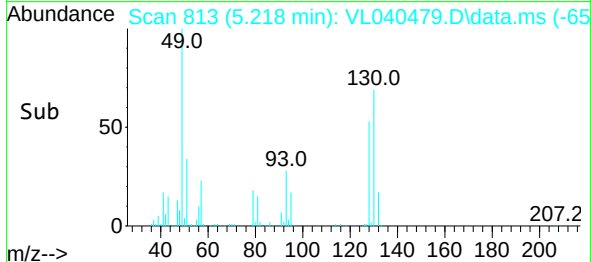
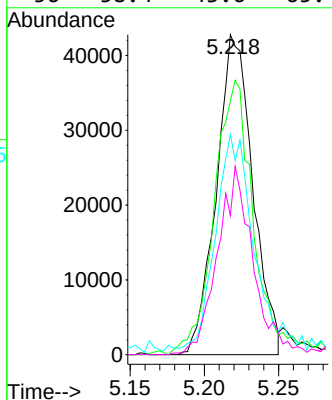
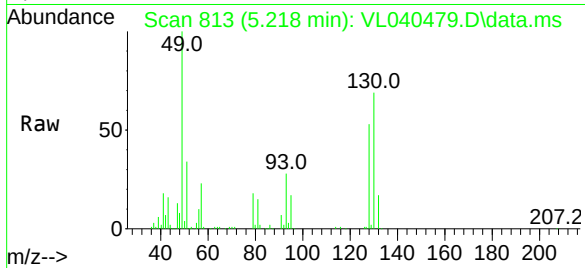




#26
Hexane
Concen: 0.635 ppbv
RT: 5.218 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

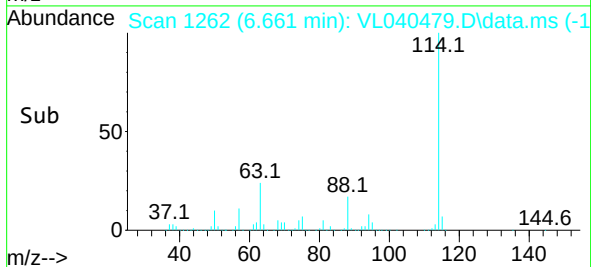
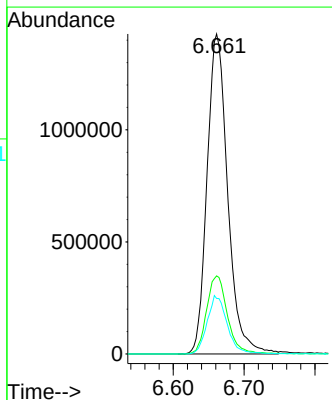
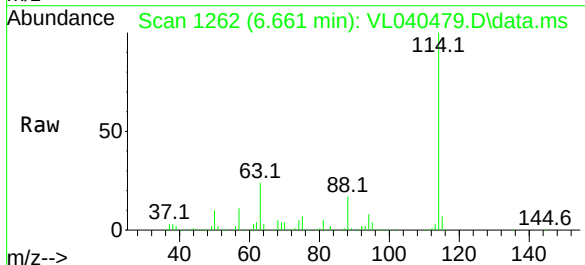
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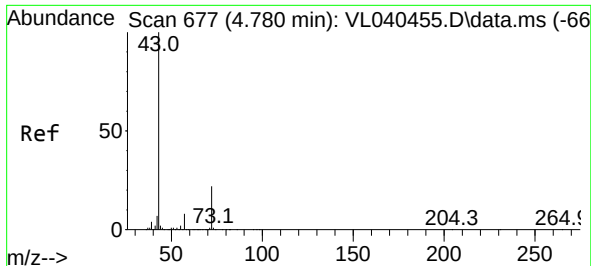
Tgt Ion: 57 Resp: 72838
Ion Ratio Lower Upper
57 100
41 97.7 73.0 109.6
43 71.8 177.5 266.3#
56 58.4 43.6 65.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.006 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

Tgt Ion: 114 Resp: 2889993
Ion Ratio Lower Upper
114 100
63 24.7 21.0 31.6
88 17.8 14.5 21.7

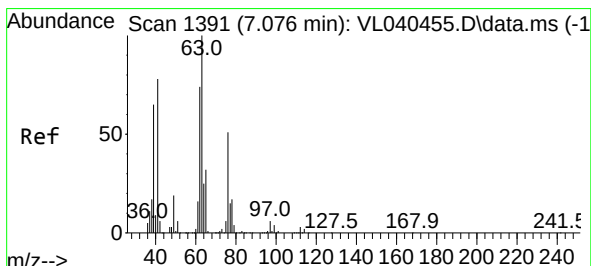
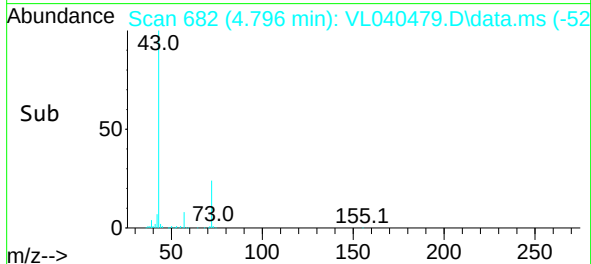
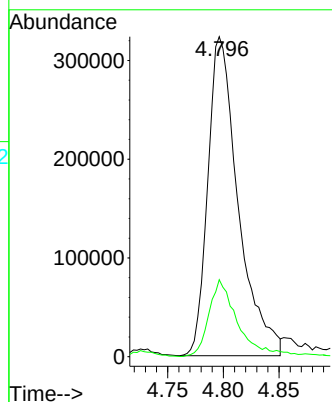
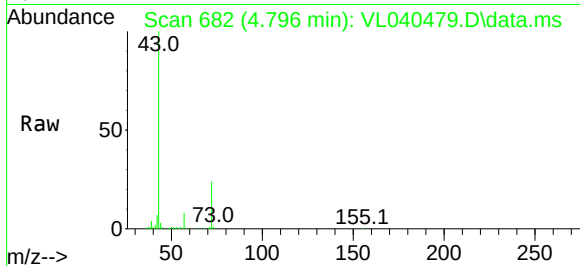




#34
2-Butanone
Concen: 4.400 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

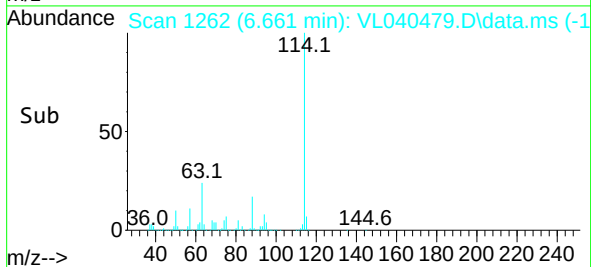
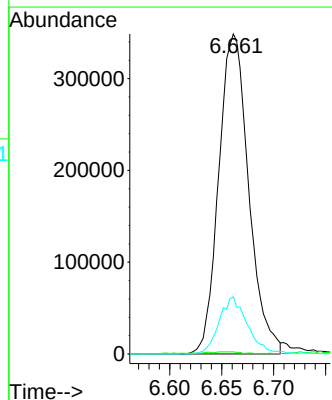
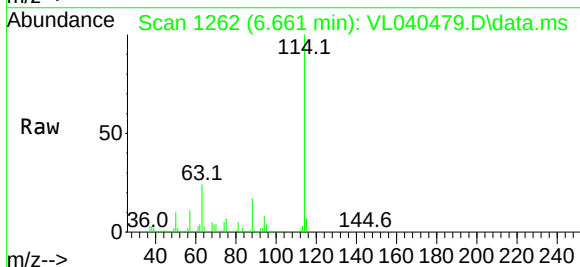
Instrument :
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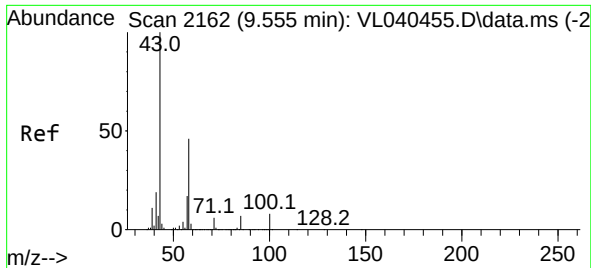
Tgt Ion: 43 Resp: 613209
Ion Ratio Lower Upper
43 100
72 22.9 18.1 27.1



#39
1,2-Dichloropropane
Concen: 7.874 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.415 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

Tgt Ion: 63 Resp: 697731
Ion Ratio Lower Upper
63 100
41 0.5 62.2 93.2#
62 17.9 59.0 88.4#

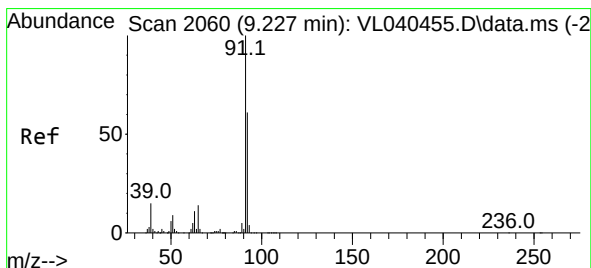
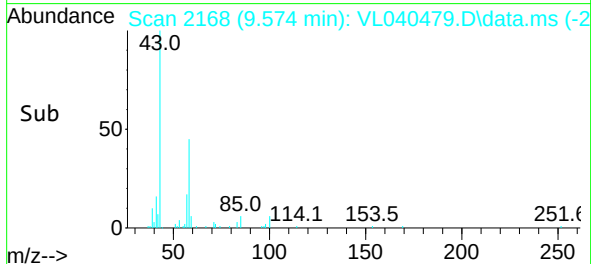
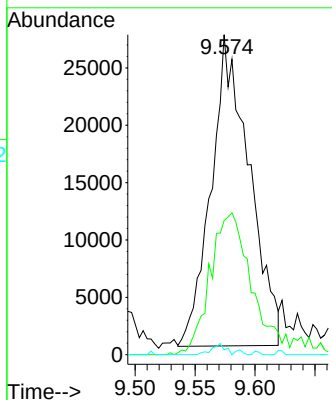
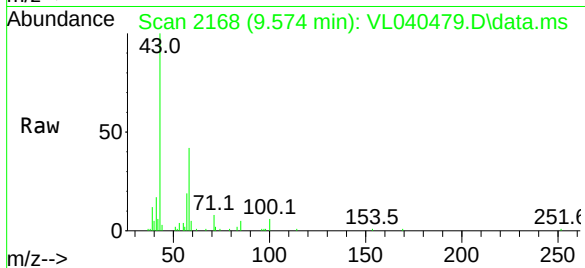




#51
2-Hexanone
Concen: 0.463 ppbv
RT: 9.574 min Scan# 2168
Delta R.T. 0.019 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

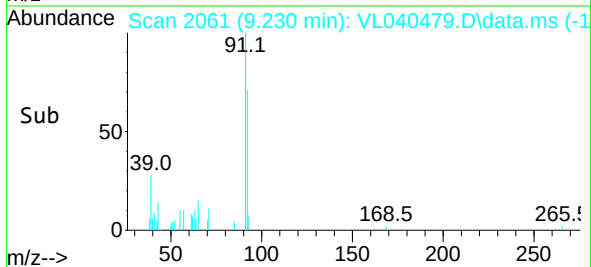
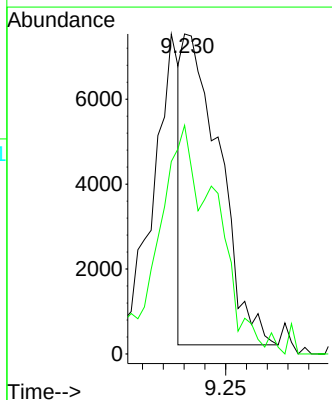
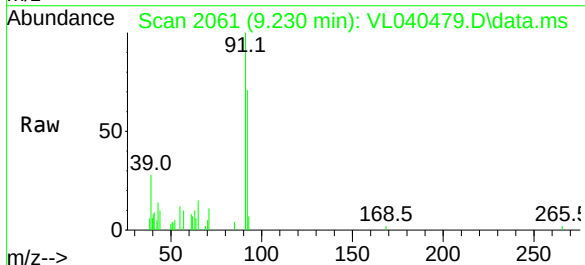
Instrument :
MSVOA_L
ClientSampleId :
SVP-06DL

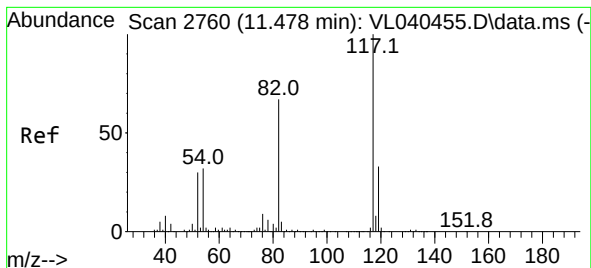
Tgt Ion: 43 Resp: 59934
Ion Ratio Lower Upper
43 100
58 52.6 37.1 55.7
98 1.5 0.5 0.7#



#53
Toluene
Concen: 0.038 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VL040479.D
Acq: 15 Jun 2023 23:03

Tgt Ion: 91 Resp: 9116
Ion Ratio Lower Upper
91 100
92 117.2 49.1 73.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.481 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040479.D

Acq: 15 Jun 2023 23:03

Instrument :

MSVOA_L

ClientSampleId :

SVP-06DL

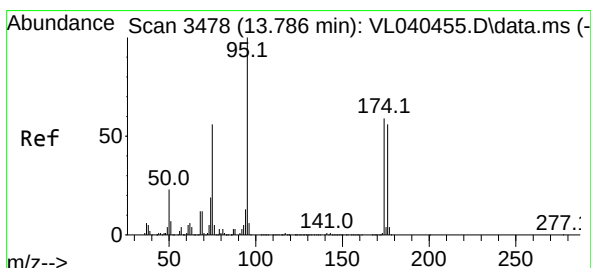
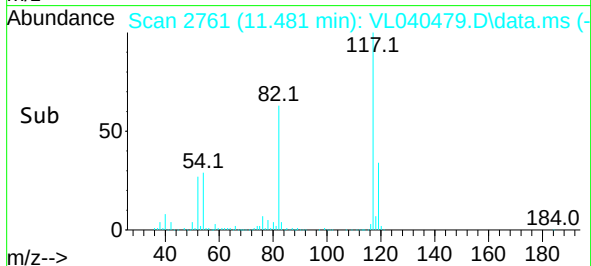
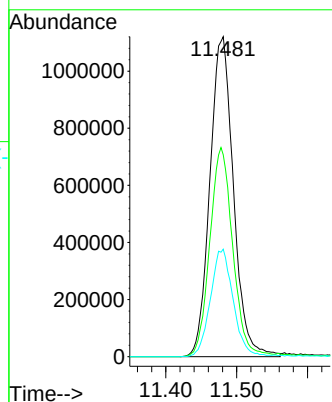
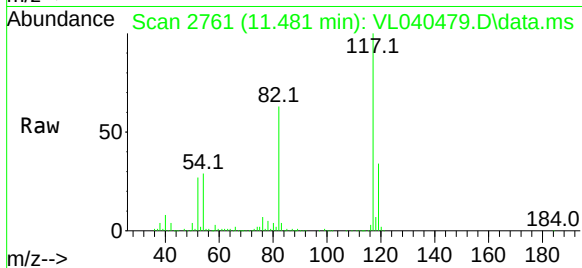
Tgt Ion:117 Resp: 2588422

Ion Ratio Lower Upper

117 100

82 64.7 53.0 79.4

119 32.7 24.4 36.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.613 ppbv

RT: 13.790 min Scan# 3479

Delta R.T. 0.003 min

Lab File: VL040479.D

Acq: 15 Jun 2023 23:03

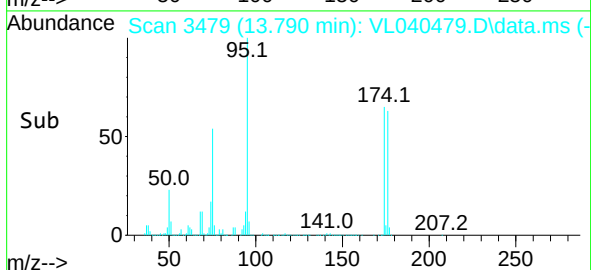
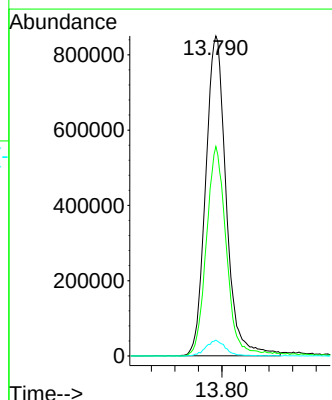
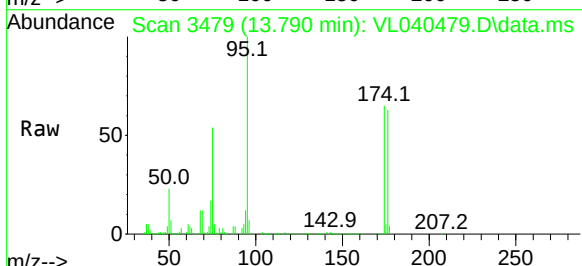
Tgt Ion: 95 Resp: 2053664

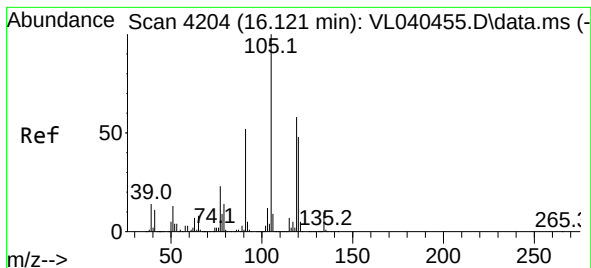
Ion Ratio Lower Upper

95 100

174 65.3 47.7 71.5

175 4.8 3.5 5.3





#74

1,2,4-Trimethylbenzene

Concen: 0.032 ppbv

RT: 16.127 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL040479.D

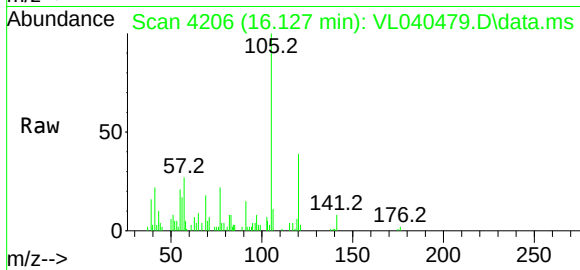
Acq: 15 Jun 2023 23:03

Instrument :

MSVOA_L

ClientSampleId :

SVP-06DL



Tgt Ion:105 Resp: 10334

Ion Ratio Lower Upper

105 100

120 32.2 38.4 57.6#

91 12.4 41.3 61.9#

77 15.4 18.6 28.0#

