

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061523\
 Data File : VL040471.D
 Acq On : 15 Jun 2023 17:34
 Operator : SY/MD
 Sample : 03250-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-02DL

Quant Time: Jun 16 05:38:30 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)

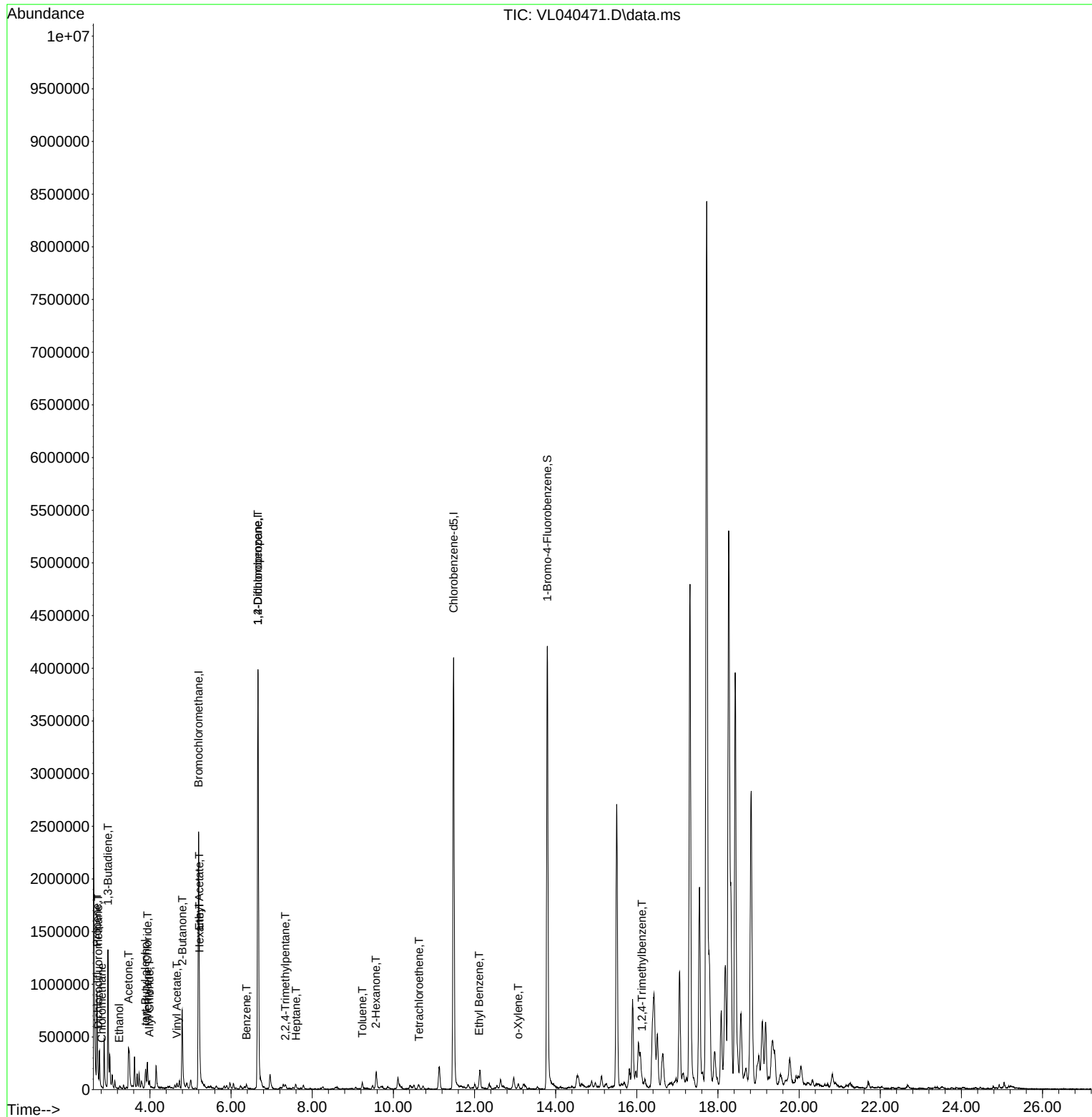
Internal Standards						
1) Bromochloromethane	5.198	49	1169566	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	3107579	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2767005	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	2154568	9.434	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	33153	0.130	ppbv #	81
4) Chloromethane	2.816	50	3036	0.041	ppbv #	88
9) Propene	2.694	41	375600	6.358	ppbv	95
10) Heptane	7.600	43	4354	0.033	ppbv #	25
13) Ethanol	3.243	45	5548	0.454	ppbv #	39
15) Acetone	3.472	43	415458	2.945	ppbv #	30
16) 1,3-Butadiene	2.967	39	360438	5.250	ppbv #	22
17) tert-Butyl alcohol	3.890	59	143917	1.241	ppbv	96
20) Methylene Chloride	3.941	84	42480	0.706	ppbv	89
21) Allyl Chloride	3.989	41	4415	0.055	ppbv #	1
23) Vinyl Acetate	4.665	43	11065	0.080	ppbv #	57
25) Ethyl Acetate	5.218	43	77716	0.304	ppbv #	78
26) Hexane	5.221	57	117557	0.971	ppbv #	41
34) 2-Butanone	4.796	43	935369	6.242	ppbv	97
36) Benzene	6.382	78	33383	0.135	ppbv #	86
39) 1,2-Dichloropropane	6.661	63	748341	7.853	ppbv #	22
44) 2,2,4-Trimethylpentane	7.337	57	15702	0.039	ppbv #	7
51) 2-Hexanone	9.571	43	58584	0.420	ppbv #	31
52) Tetrachloroethene	10.635	164	4582	0.059	ppbv #	2
53) Toluene	9.234	91	39001	0.150	ppbv	98
58) Ethyl Benzene	12.111	91	10552	0.031	ppbv	91
60) o-Xylene	13.079	91	15806	0.054	ppbv #	51
74) 1,2,4-Trimethylbenzene	16.124	105	50342	0.147	ppbv #	63

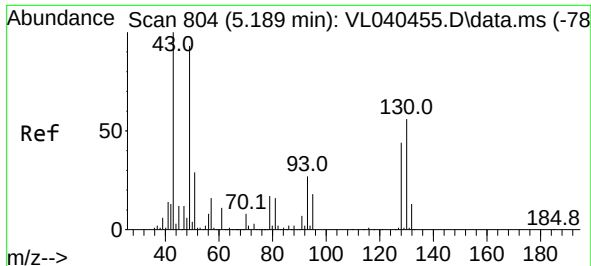
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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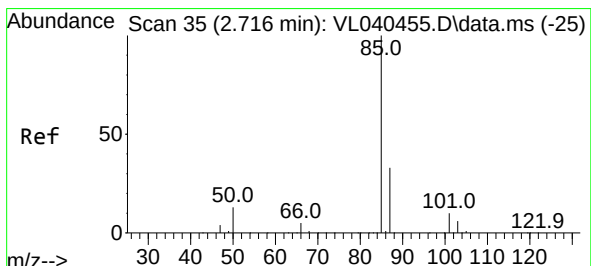
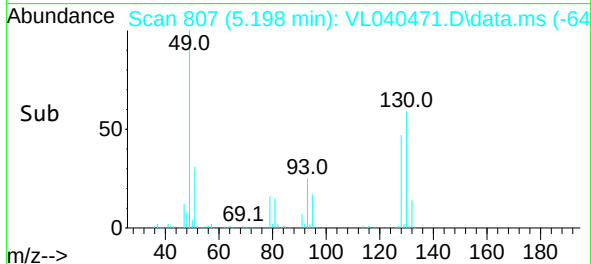
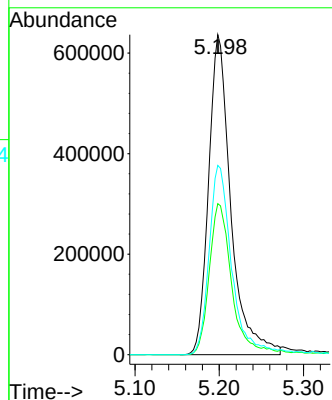
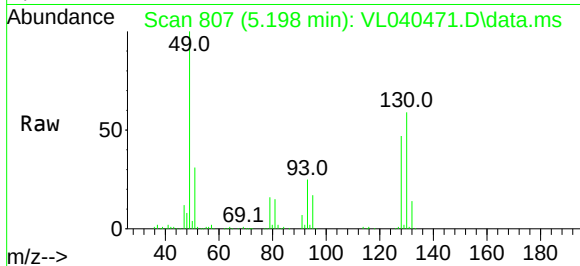




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

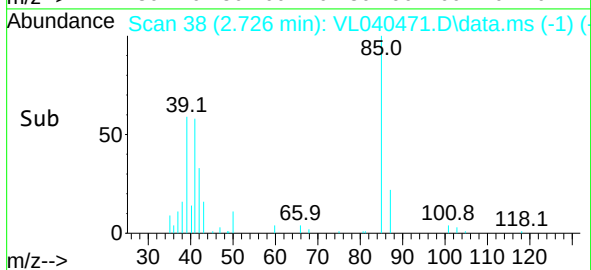
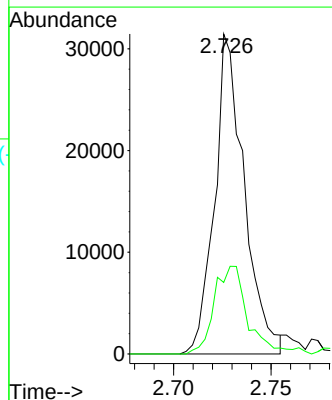
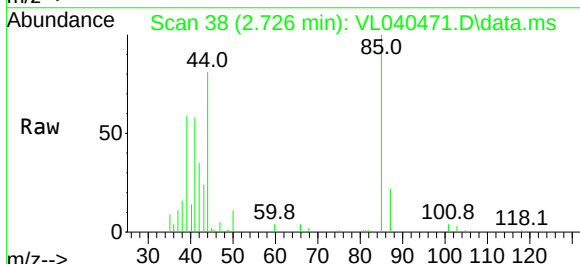
Instrument :
MSVOA_L
ClientSampleId :
SVP-02DL

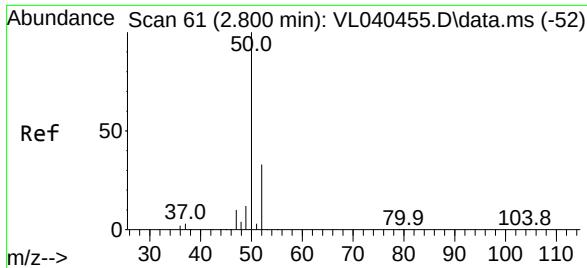
Tgt Ion: 49 Resp: 1169566
Ion Ratio Lower Upper
49 100
128 49.2 24.7 74.1
130 61.4 31.4 94.2



#2
Dichlorodifluoromethane
Concen: 0.130 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 85 Resp: 33153
Ion Ratio Lower Upper
85 100
87 22.4 26.6 39.8#

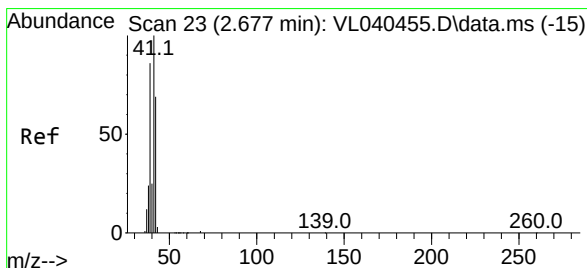
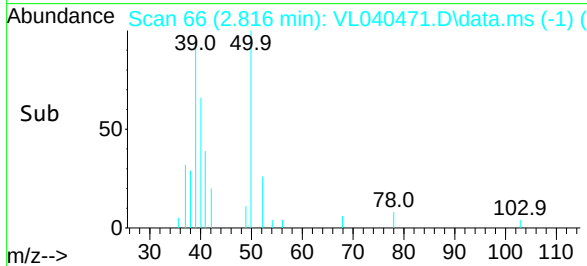
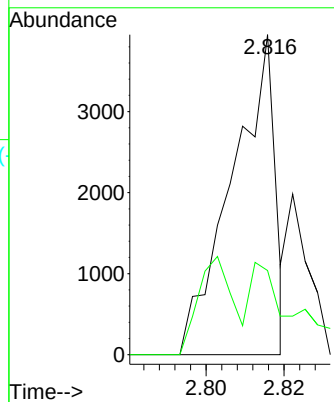
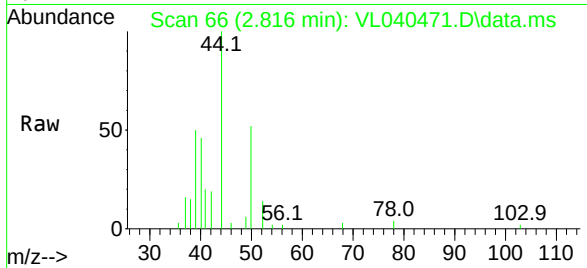




#4
Chloromethane
Concen: 0.041 ppbv
RT: 2.816 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

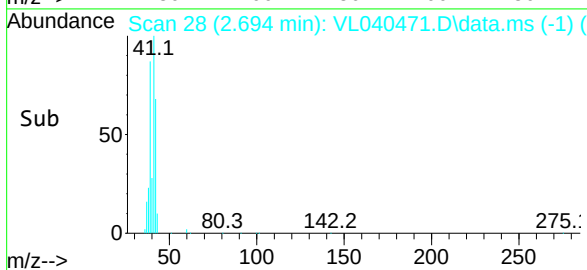
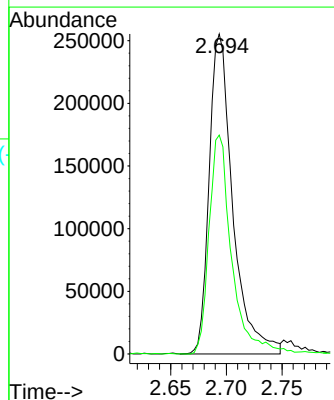
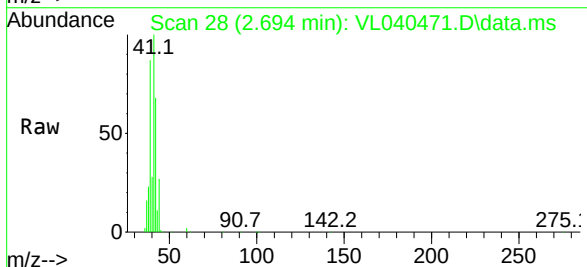
Instrument :
MSVOA_L
ClientSampleId :
SVP-02DL

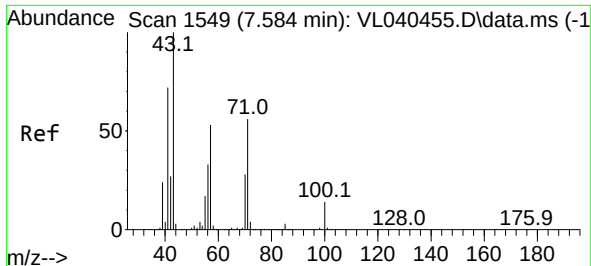
Tgt Ion: 50 Resp: 3036
Ion Ratio Lower Upper
50 100
52 26.3 26.3 39.5#



#9
Propene
Concen: 6.358 ppbv
RT: 2.694 min Scan# 28
Delta R.T. 0.016 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 41 Resp: 375600
Ion Ratio Lower Upper
41 100
42 66.4 56.2 84.2

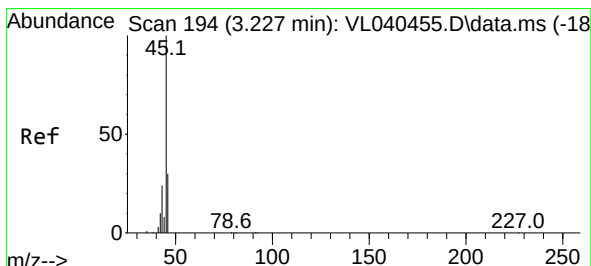
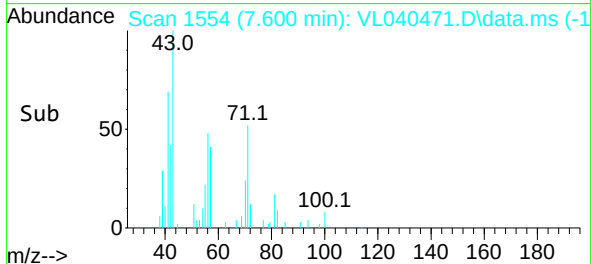
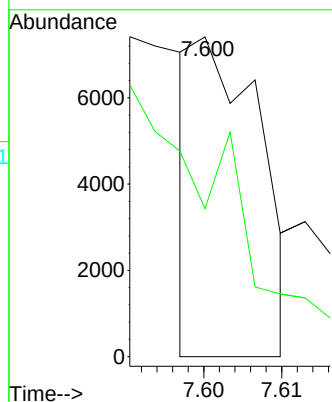
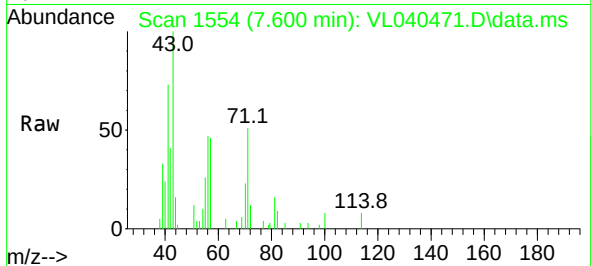




#10
Heptane
Concen: 0.033 ppbv
RT: 7.600 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

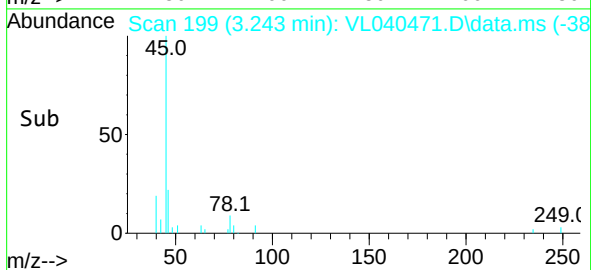
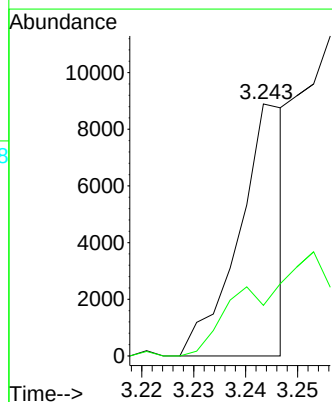
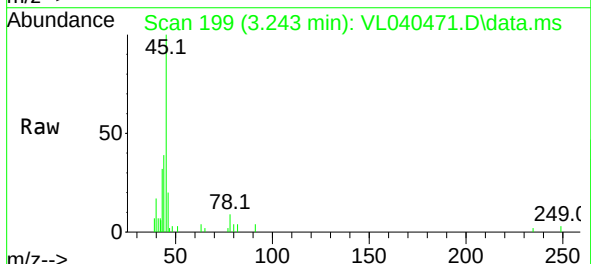
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MSVOA_L
ClientSampleId :
SVP-02DL

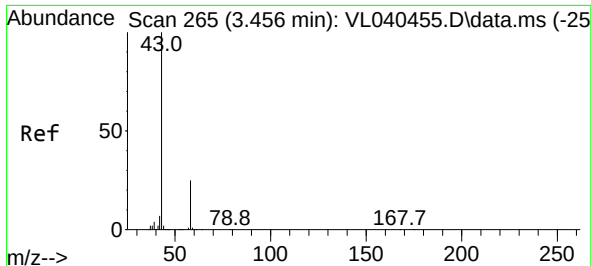
Tgt Ion: 43 Resp: 4354
Ion Ratio Lower Upper
43 100
57 0.0 42.5 63.7#



#13
Ethanol
Concen: 0.454 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.016 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 45 Resp: 5548
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#





#15

Acetone

Concen: 2.945 ppbv

RT: 3.472 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL040471.D

Acq: 15 Jun 2023 17:34

Instrument :

MSVOA_L

ClientSampleId :

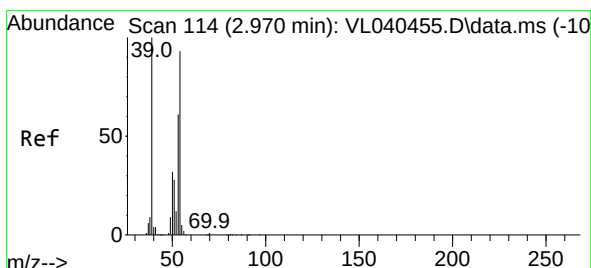
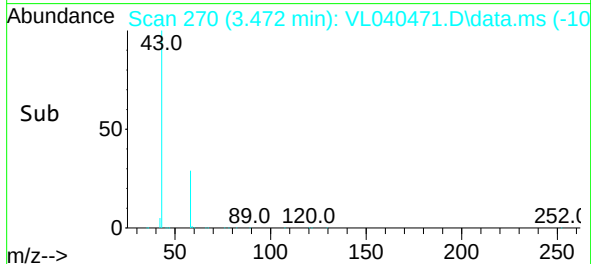
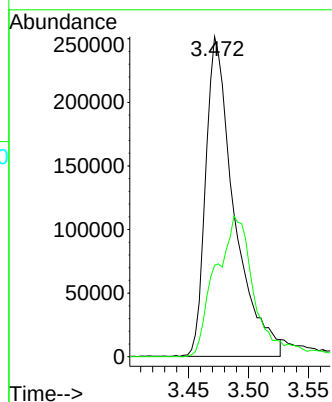
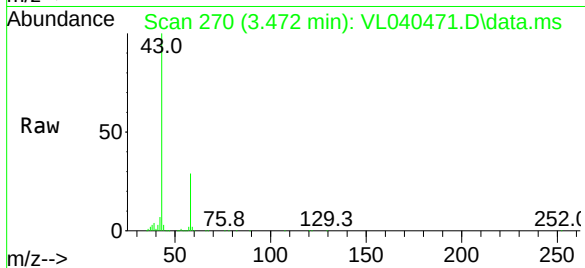
SVP-02DL

Tgt Ion: 43 Resp: 415458

Ion Ratio Lower Upper

43 100

58 63.1 21.6 32.4#



#16

1,3-Butadiene

Concen: 5.250 ppbv

RT: 2.967 min Scan# 113

Delta R.T. -0.003 min

Lab File: VL040471.D

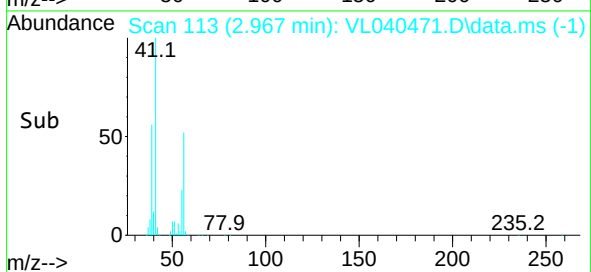
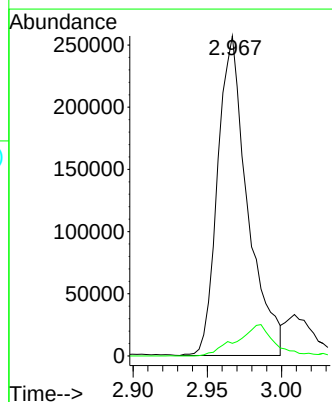
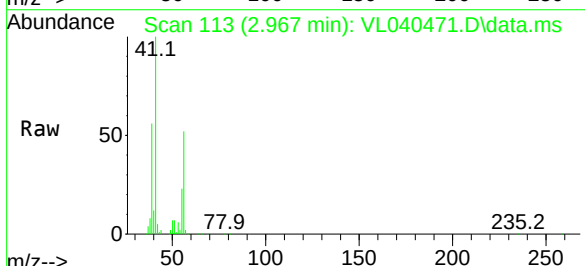
Acq: 15 Jun 2023 17:34

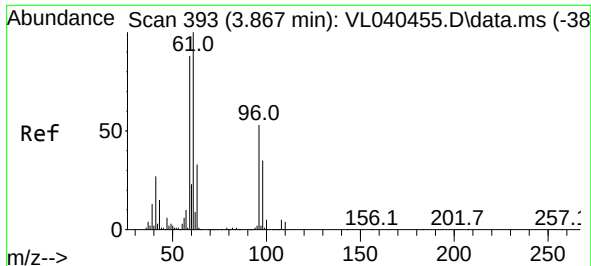
Tgt Ion: 39 Resp: 360438

Ion Ratio Lower Upper

39 100

54 12.6 66.9 100.3#

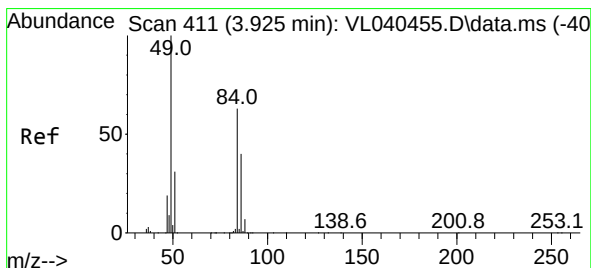
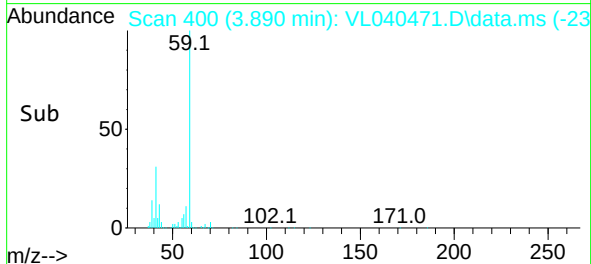
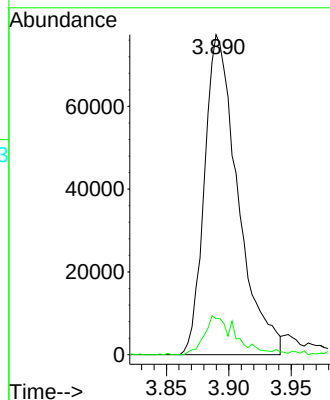
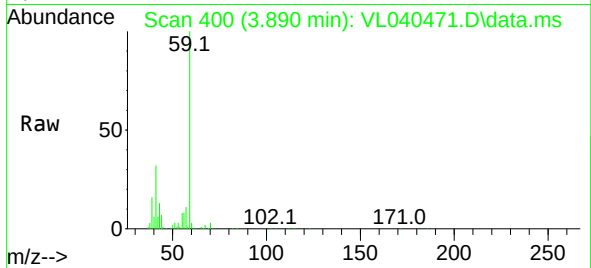




#17
tert-Butyl alcohol
Concen: 1.241 ppbv
RT: 3.890 min Scan# 40
Delta R.T. 0.023 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

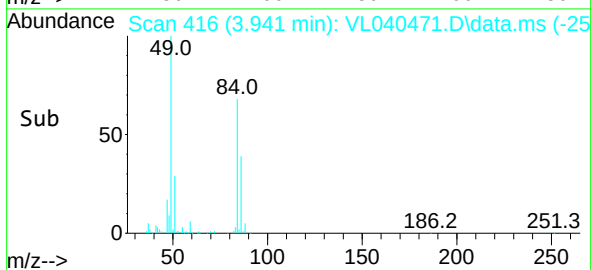
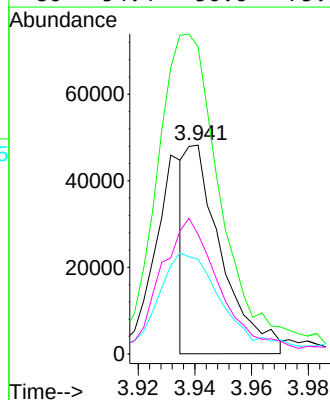
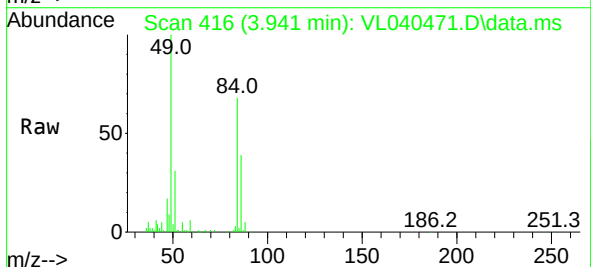
Instrument :
MSVOA_1
ClientSampleId :
SVP-02DL

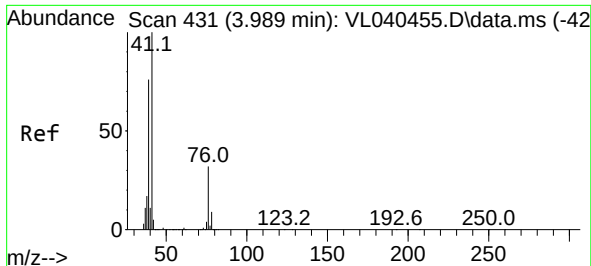
Tgt Ion: 59 Resp: 143917
Ion Ratio Lower Upper
59 100
57 12.6 8.8 13.2



#20
Methylene Chloride
Concen: 0.706 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.016 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 84 Resp: 42480
Ion Ratio Lower Upper
84 100
49 142.6 126.2 189.2
51 41.1 38.7 58.1
86 54.4 50.6 75.8





#21

Allyl Chloride

Concen: 0.055 ppbv

RT: 3.989 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL040471.D

Acq: 15 Jun 2023 17:34

Instrument :

MSVOA_L

ClientSampleId :

SVP-02DL

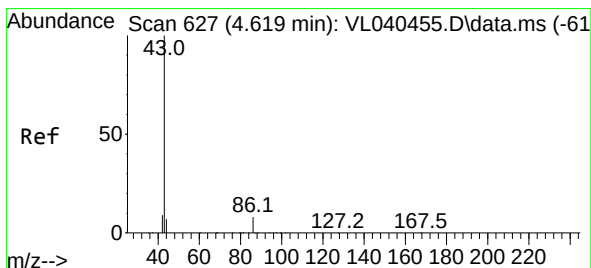
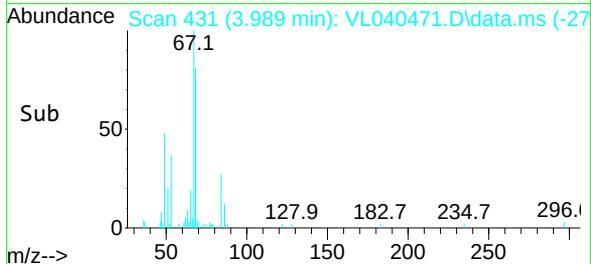
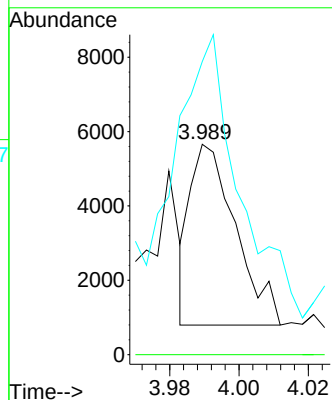
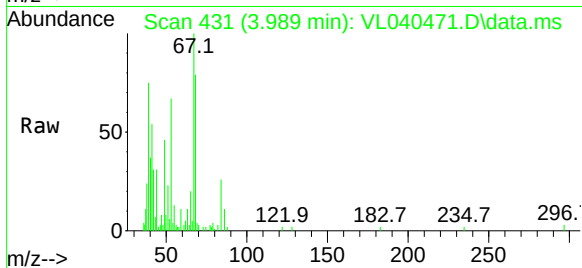
Tgt Ion: 41 Resp: 4415

Ion Ratio Lower Upper

41 100

76 0.0 26.1 39.1#

39 467.1 63.9 95.9#



#23

Vinyl Acetate

Concen: 0.080 ppbv

RT: 4.665 min Scan# 641

Delta R.T. 0.045 min

Lab File: VL040471.D

Acq: 15 Jun 2023 17:34

Tgt Ion: 43 Resp: 11065

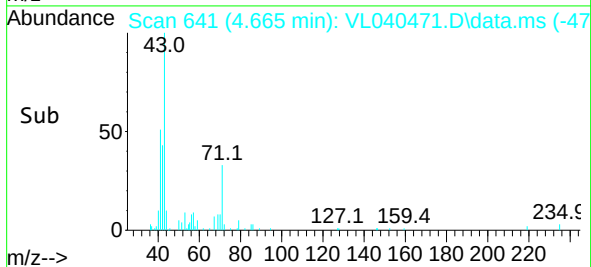
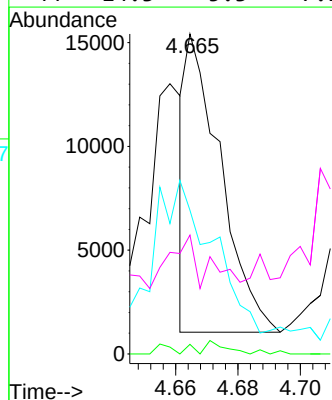
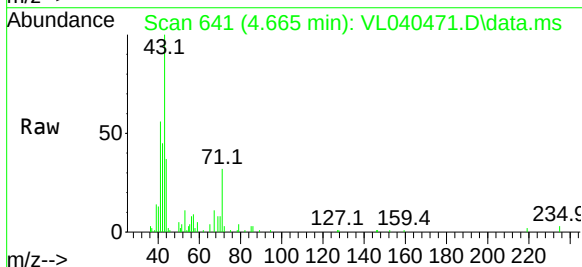
Ion Ratio Lower Upper

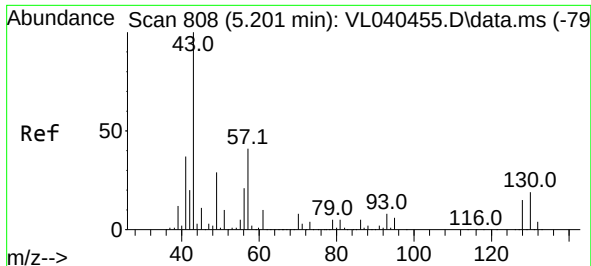
43 100

86 3.2 5.8 8.6#

42 39.2 7.4 11.2#

44 14.3 5.3 7.9#



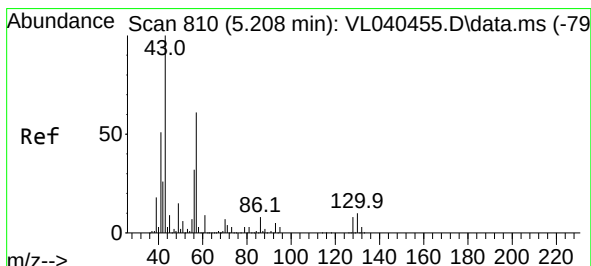
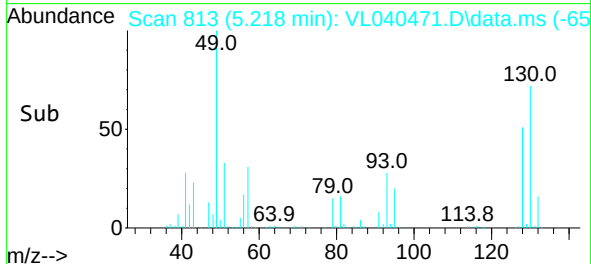
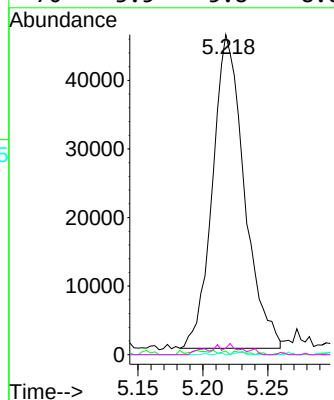
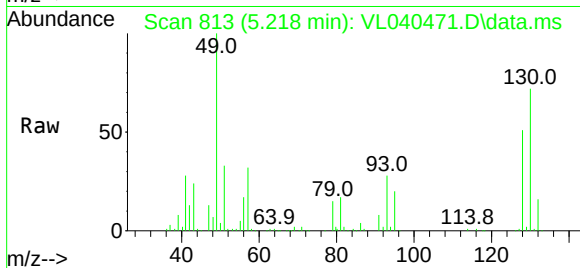


#25
Ethyl Acetate
Concen: 0.304 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.016 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Instrument :
MSVOA_L
ClientSampleId :
SVP-02DL

Tgt Ion: 43 Resp: 77716

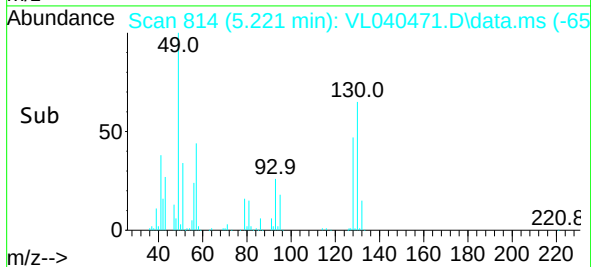
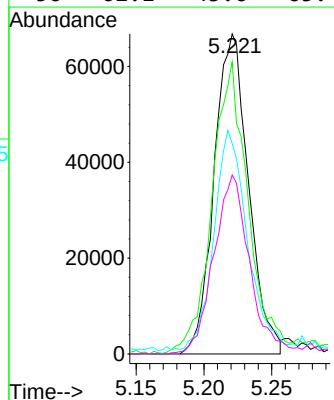
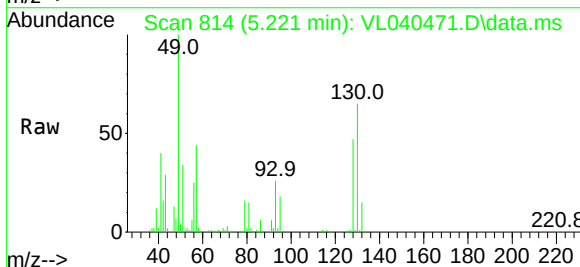
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.0	12.0#
61	0.2	8.1	12.1#
70	3.5	5.8	8.6#

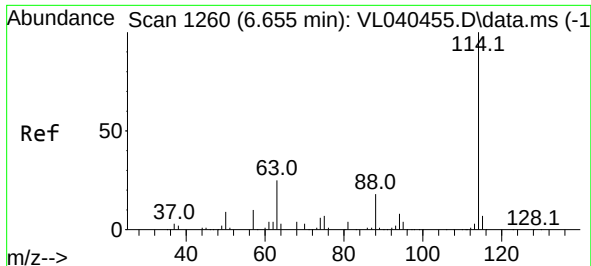


#26
Hexane
Concen: 0.971 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.013 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 57 Resp: 117557

Ion	Ratio	Lower	Upper
57	100		
41	98.9	73.0	109.6
43	72.1	177.5	266.3#
56	62.1	43.6	65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. 0.007 min

Lab File: VL040471.D

Acq: 15 Jun 2023 17:34

Instrument :

MSVOA_L

ClientSampleId :

SVP-02DL

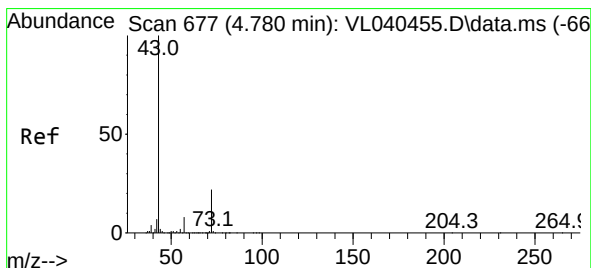
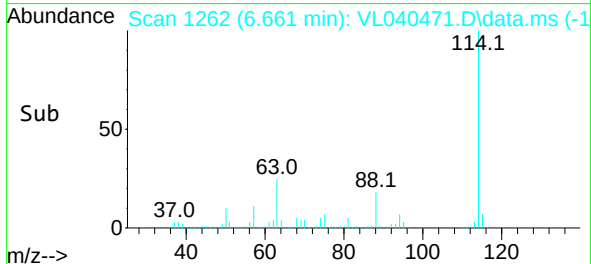
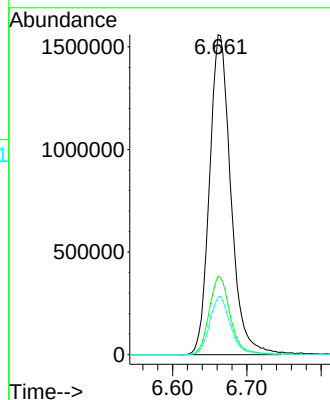
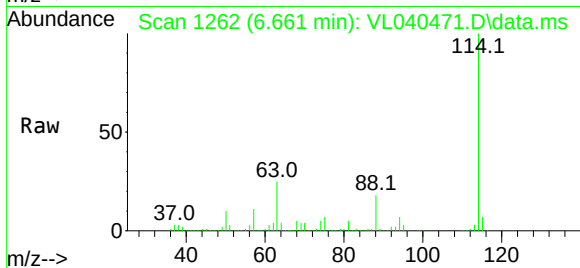
Tgt Ion:114 Resp: 3107579

Ion Ratio Lower Upper

114 100

63 24.4 21.0 31.6

88 17.9 14.5 21.7



#34

2-Butanone

Concen: 6.242 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.016 min

Lab File: VL040471.D

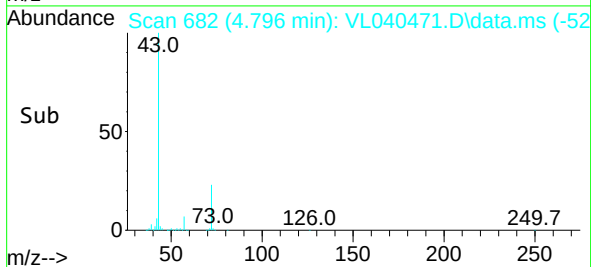
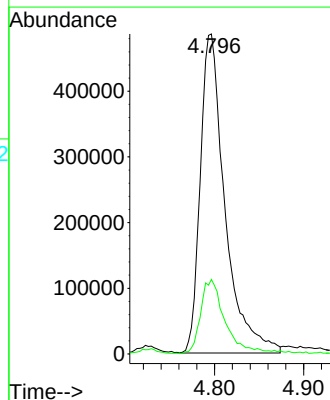
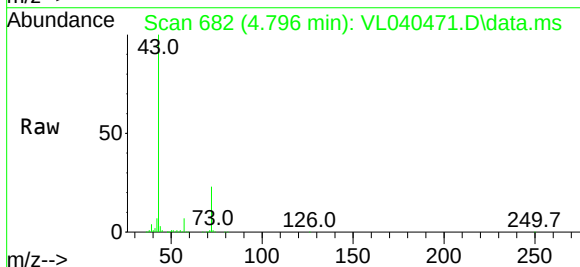
Acq: 15 Jun 2023 17:34

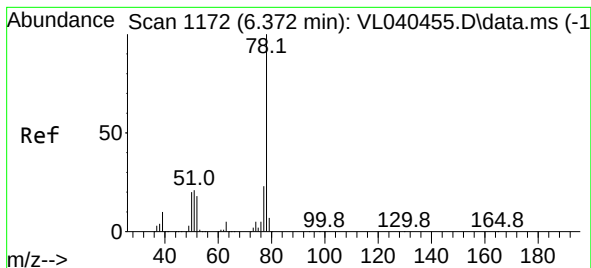
Tgt Ion: 43 Resp: 935369

Ion Ratio Lower Upper

43 100

72 23.8 18.1 27.1





#36

Benzene

Concen: 0.135 ppbv

RT: 6.382 min Scan# 1175

Delta R.T. 0.010 min

Lab File: VL040471.D

Acq: 15 Jun 2023 17:34

Instrument :

MSVOA_L

ClientSampleId :

SVP-02DL

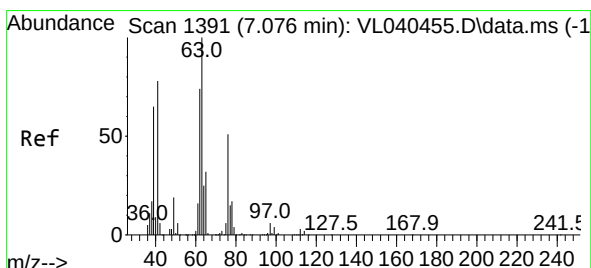
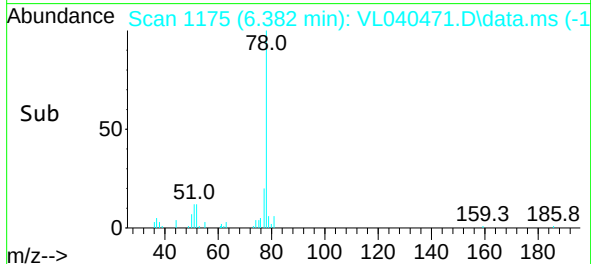
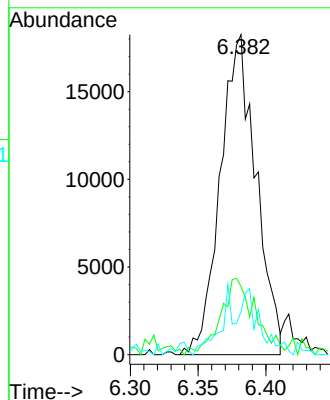
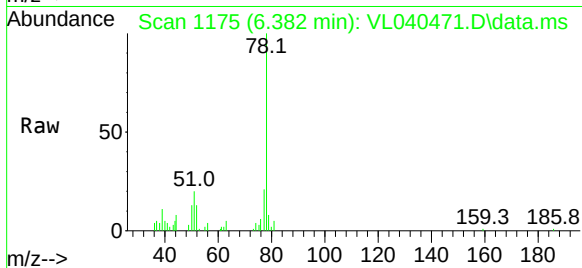
Tgt Ion: 78 Resp: 33383

Ion Ratio Lower Upper

78 100

77 19.7 18.5 27.7

50 9.9 16.1 24.1#



#39

1,2-Dichloropropane

Concen: 7.853 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. -0.415 min

Lab File: VL040471.D

Acq: 15 Jun 2023 17:34

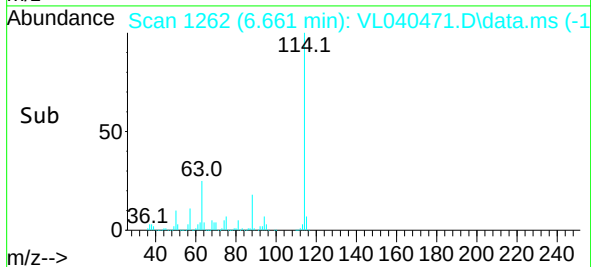
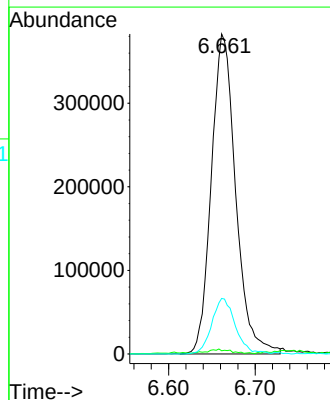
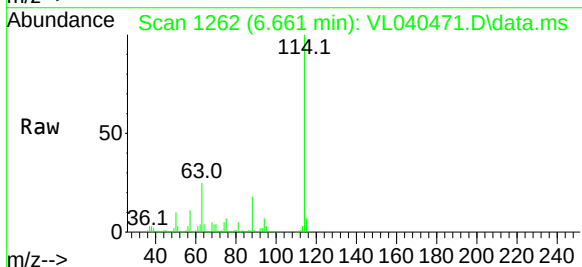
Tgt Ion: 63 Resp: 748341

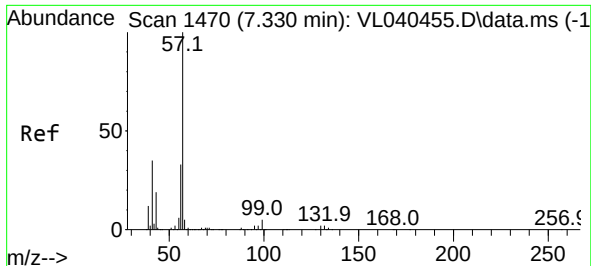
Ion Ratio Lower Upper

63 100

41 0.7 62.2 93.2#

62 17.4 59.0 88.4#

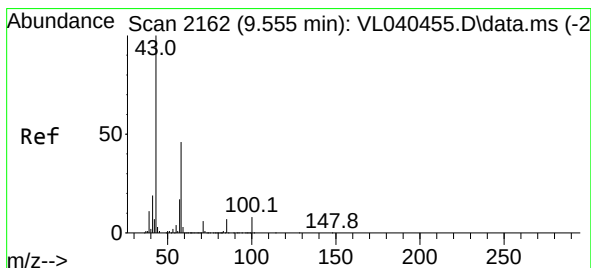
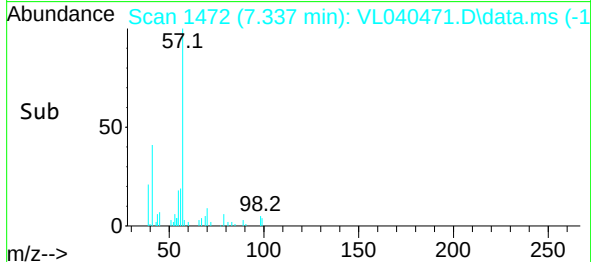
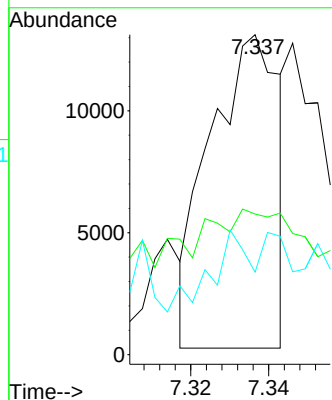
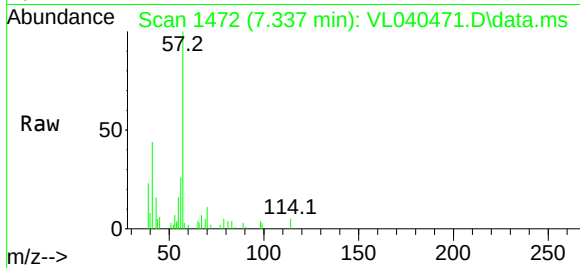




#44
2,2,4-Trimethylpentane
Concen: 0.039 ppbv
RT: 7.337 min Scan# 1470
Delta R.T. 0.007 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

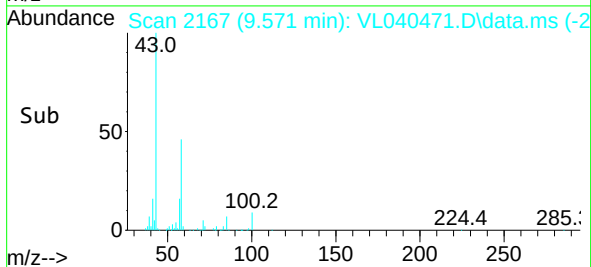
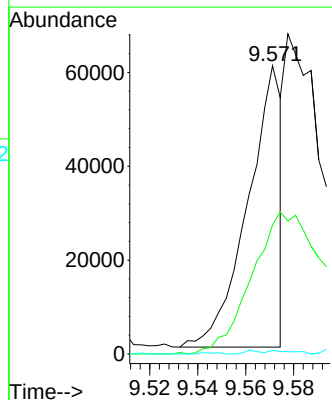
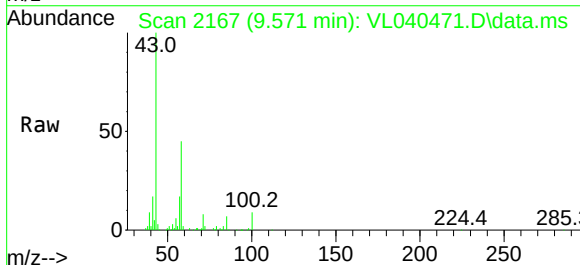
Instrument :
MSVOA_1
ClientSampleId :
SVP-02DL

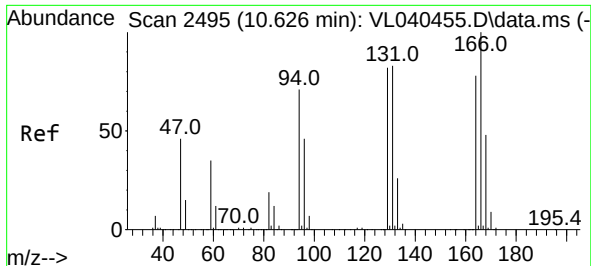
Tgt Ion: 57 Resp: 15702
Ion Ratio Lower Upper
57 100
41 100.3 27.8 41.8#
56 71.4 25.3 37.9#



#51
2-Hexanone
Concen: 0.420 ppbv
RT: 9.571 min Scan# 2167
Delta R.T. 0.016 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 43 Resp: 58584
Ion Ratio Lower Upper
43 100
58 0.0 37.1 55.7#
98 0.0 0.5 0.7#

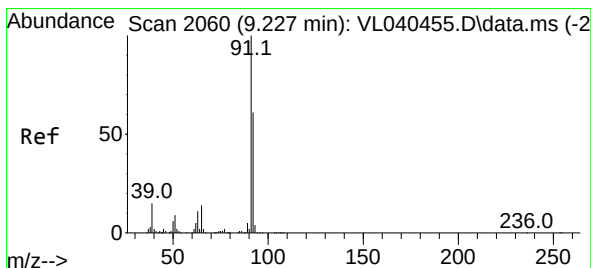
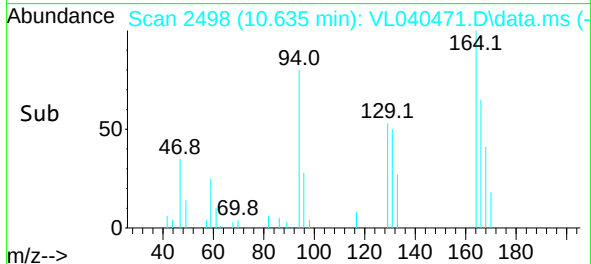
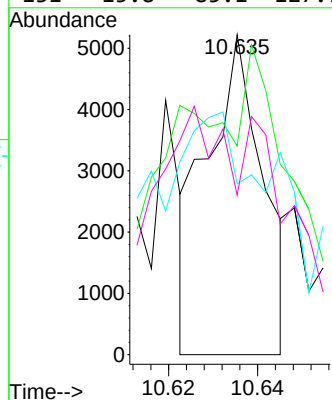
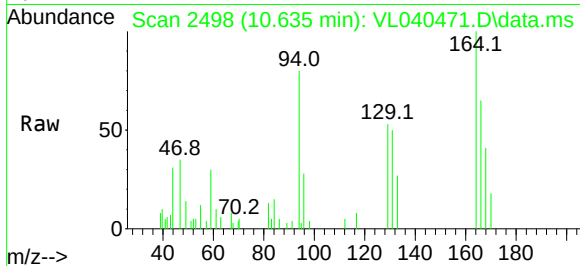




#52
Tetrachloroethene
Concen: 0.059 ppbv
RT: 10.635 min Scan# 2498
Delta R.T. 0.010 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

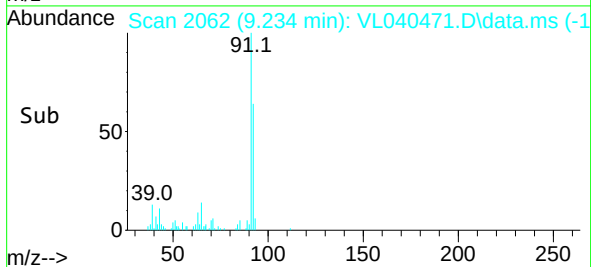
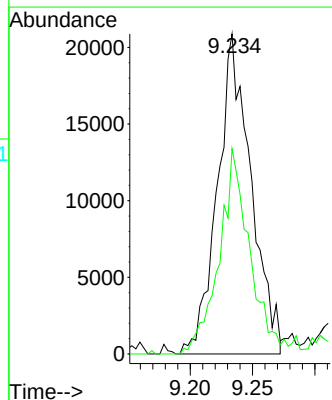
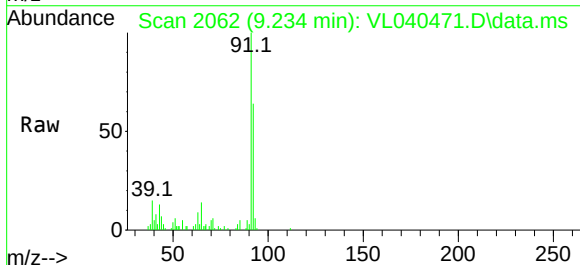
Instrument :
MSVOA_L
ClientSampleId :
SVP-02DL

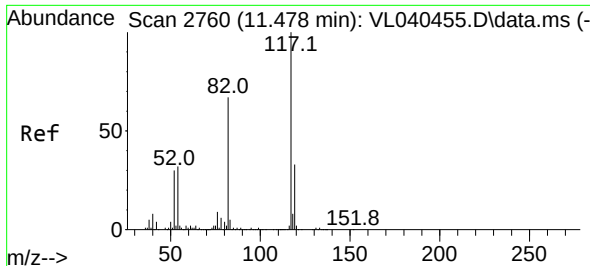
Tgt Ion:164 Resp: 4582
Ion Ratio Lower Upper
164 100
166 9.9 102.7 154.1#
129 0.0 84.6 126.8#
131 15.8 85.1 127.7#



#53
Toluene
Concen: 0.150 ppbv
RT: 9.234 min Scan# 2062
Delta R.T. 0.007 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 91 Resp: 39001
Ion Ratio Lower Upper
91 100
92 59.8 49.1 73.7

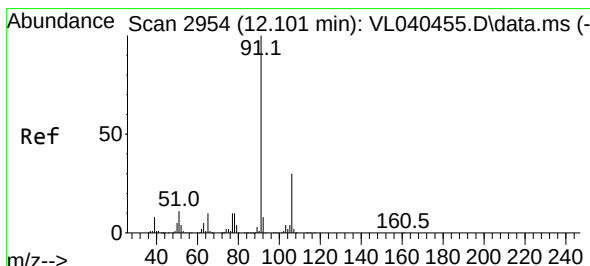
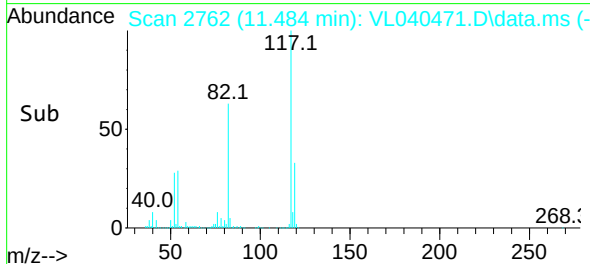
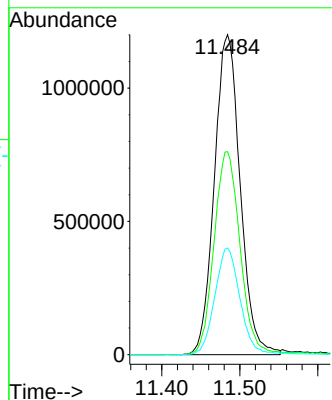
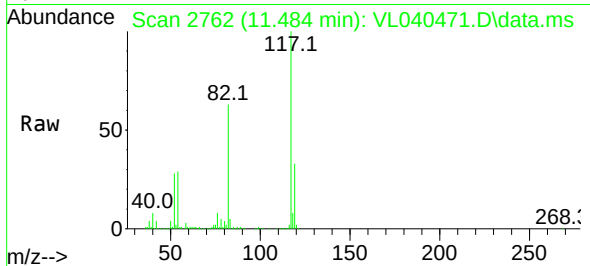




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

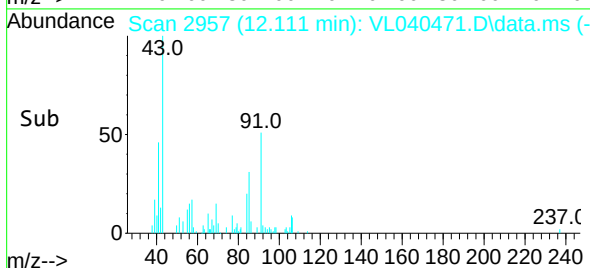
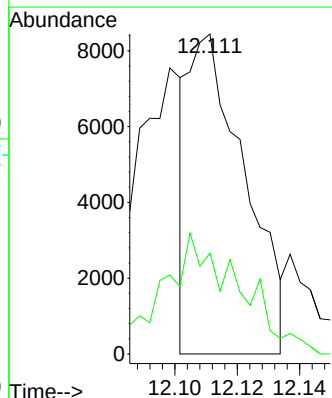
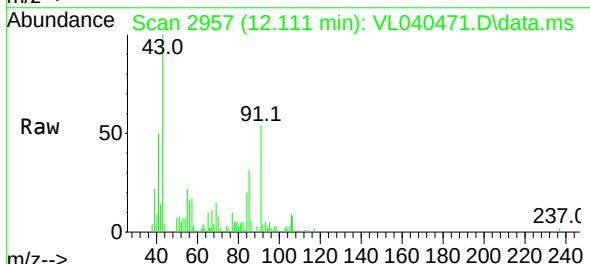
Instrument :
MSVOA_L
ClientSampleId :
SVP-02DL

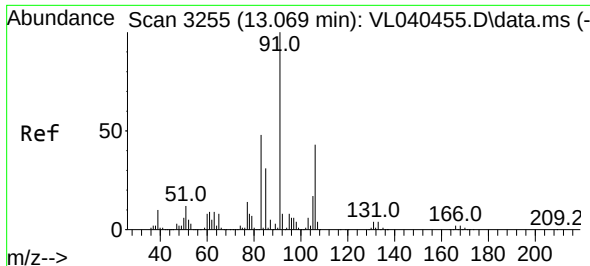
Tgt Ion:117 Resp: 2767005
Ion Ratio Lower Upper
117 100
82 64.8 53.0 79.4
119 32.9 24.4 36.6



#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 12.111 min Scan# 2957
Delta R.T. 0.010 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

Tgt Ion: 91 Resp: 10552
Ion Ratio Lower Upper
91 100
106 34.6 23.7 35.5

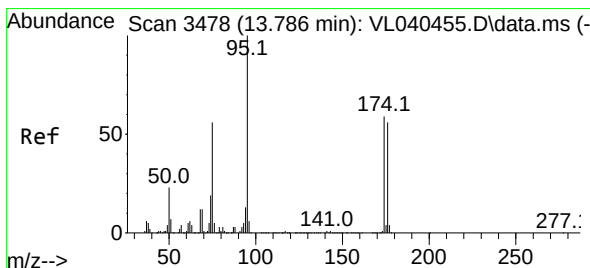
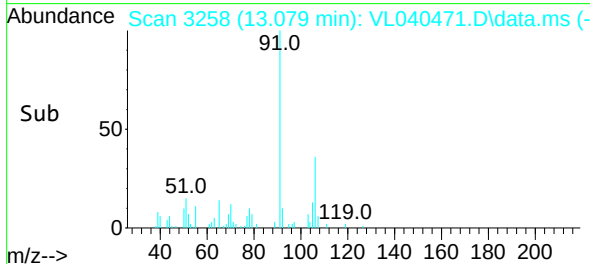
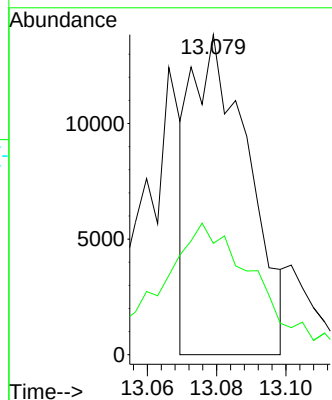
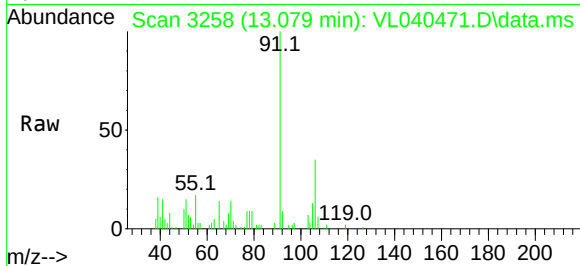




#60
o-Xylene
Concen: 0.054 ppbv
RT: 13.079 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

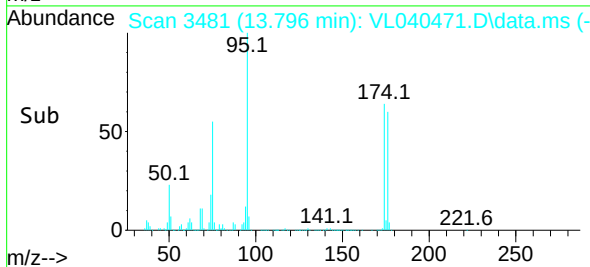
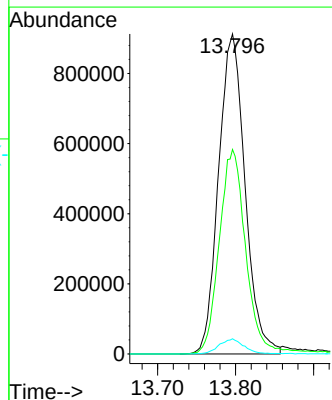
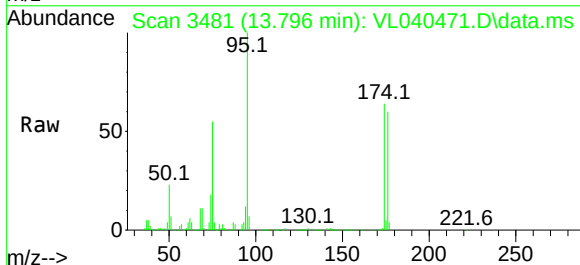
Instrument :
MSVOA_L
ClientSampleId :
SVP-02DL

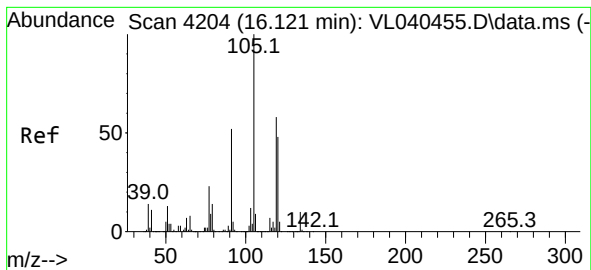
Tgt Ion: 91 Resp: 15806
Ion Ratio Lower Upper
91 100
106 76.0 22.1 66.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.434 ppbv
RT: 13.796 min Scan# 3481
Delta R.T. 0.010 min
Lab File: VL040471.D
Acq: 15 Jun 2023 17:34

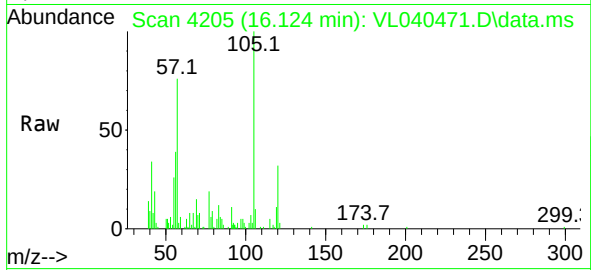
Tgt Ion: 95 Resp: 2154568
Ion Ratio Lower Upper
95 100
174 65.6 47.7 71.5
175 4.6 3.5 5.3





#74
 1,2,4-Trimethylbenzene
 Concen: 0.147 ppbv
 RT: 16.124 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL040471.D
 Acq: 15 Jun 2023 17:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-02DL



Tgt Ion:	105	Resp:	50342
Ion	Ratio	Lower	Upper
105	100		
120	31.5	38.4	57.6#
91	10.3	41.3	61.9#
77	17.6	18.6	28.0#

