

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021323\
 Data File : VL040161.D
 Acq On : 13 Feb 2023 15:24
 Operator : SY/MD
 Sample : 01530-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-06

Quant Time: Feb 14 01:46:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Feb 14 01:41:11 2023
 Response via : Initial Calibration

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

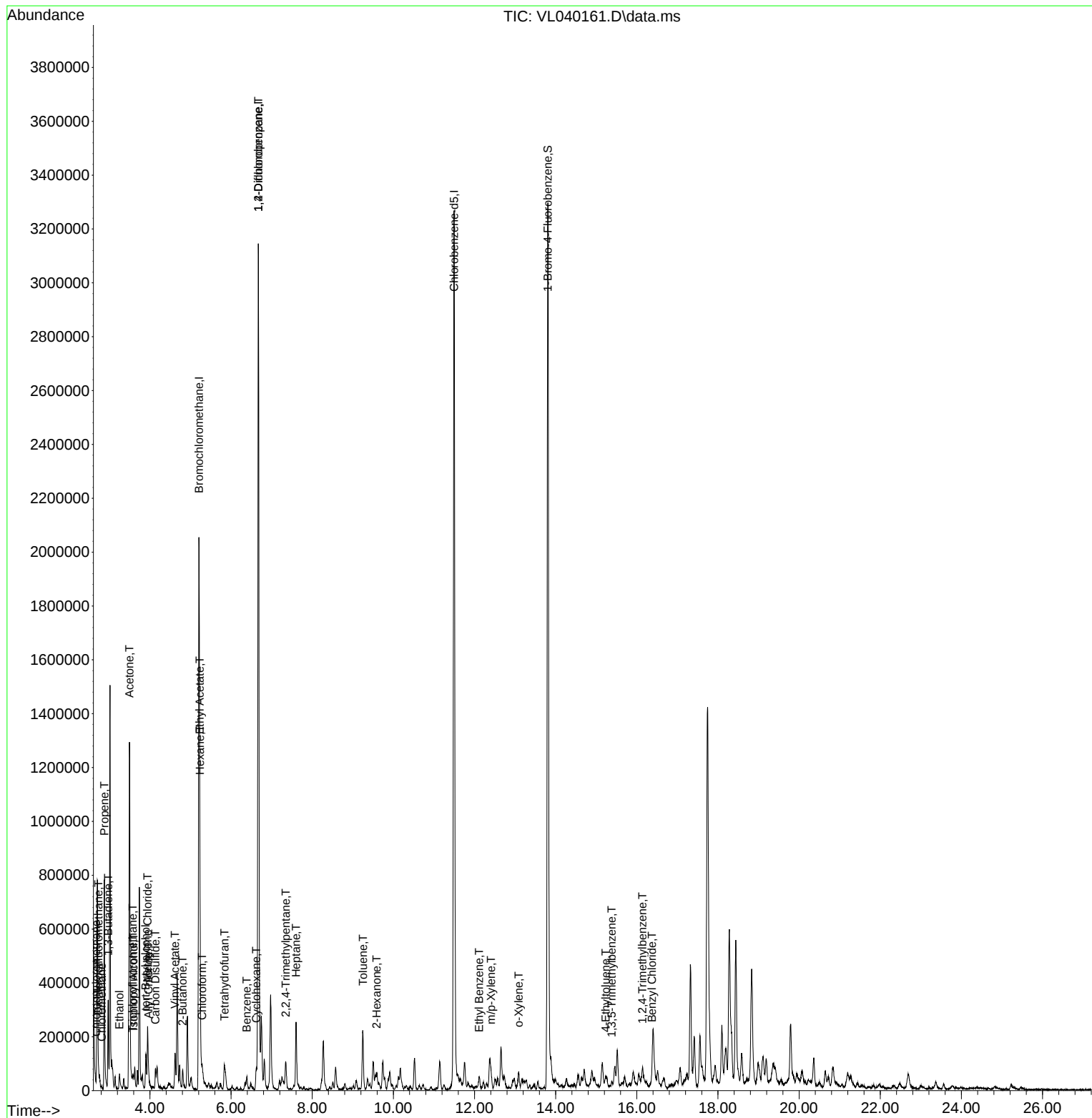
Internal Standards						
1) Bromochloromethane	5.208	49	914385	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2379402	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	2080819	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.809	95	1668525	9.648	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	13043	0.081	ppbv	98
3) Chlorodifluoromethane	2.674	51	18758	0.171	ppbv #	78
4) Chloromethane	2.812	50	2213	0.033	ppbv #	85
9) Propene	2.877	41	197838	4.342	ppbv	99
10) Heptane	7.600	43	100282	0.955	ppbv	96
11) Trichlorofluoromethane	3.574	101	5564	0.035	ppbv	99
13) Ethanol	3.250	45	35294	8.415	ppbv #	48
15) Acetone	3.497	43	698215	6.367	ppbv #	82
16) 1,3-Butadiene	2.970	39	85620	1.675	ppbv #	26
17) tert-Butyl alcohol	3.896	59	92015	0.901	ppbv	97
19) Isopropyl Alcohol	3.594	45	39565	0.737	ppbv #	90
20) Methylene Chloride	3.944	84	70788	1.463	ppbv	94
21) Allyl Chloride	3.963	41	7611	0.108	ppbv #	24
23) Vinyl Acetate	4.619	43	52368	1.473	ppbv #	1
25) Ethyl Acetate	5.227	43	163946	0.849	ppbv #	78
26) Hexane	5.230	57	237767	2.812	ppbv #	38
27) Carbon Disulfide	4.134	76	89977	0.821	ppbv #	91
29) Chloroform	5.288	83	14101	0.104	ppbv	89
30) Cyclohexane	6.623	84	14884	0.221	ppbv #	28
34) 2-Butanone	4.806	43	75148	0.668	ppbv	91
36) Benzene	6.388	78	22461	0.128	ppbv #	92
39) 1,2-Dichloropropane	6.674	63	610052	8.858	ppbv #	22
41) Tetrahydrofuran	5.838	42	9006	0.139	ppbv #	36
44) 2,2,4-Trimethylpentane	7.346	57	61232	0.209	ppbv #	52
51) 2-Hexanone	9.587	43	54588	0.407	ppbv	97
53) Toluene	9.249	91	149130	0.794	ppbv	98
58) Ethyl Benzene	12.111	91	18853	0.081	ppbv	92
59) m/p-Xylene	12.407	91	20015	0.096	ppbv #	33
60) o-Xylene	13.089	91	43180	0.218	ppbv	98
66) Benzyl Chloride	16.371	91	544	0.033	ppbv #	65
72) 4-Ethyltoluene	15.230	105	13225	0.060	ppbv #	56
73) 1,3,5-Trimethylbenzene	15.378	105	6507	0.033	ppbv	98
74) 1,2,4-Trimethylbenzene	16.140	105	38025	0.173	ppbv #	68

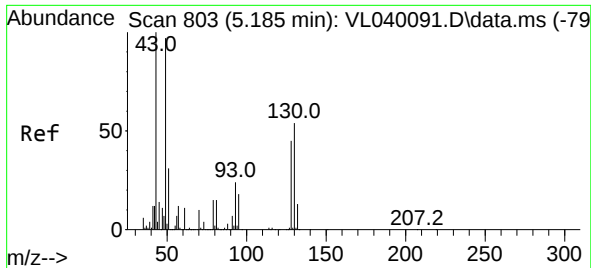
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021323\
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Feb 14 01:41:11 2023
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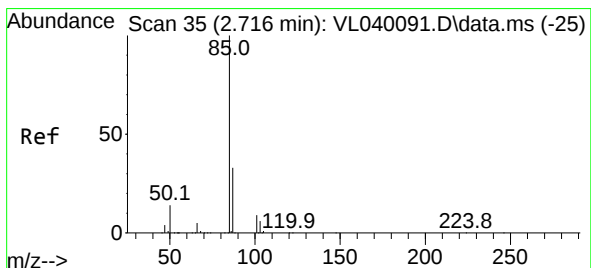
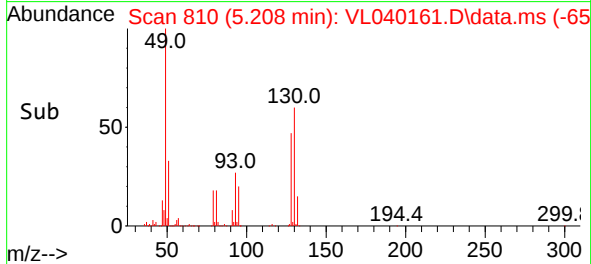
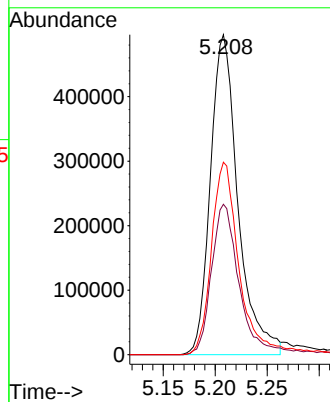
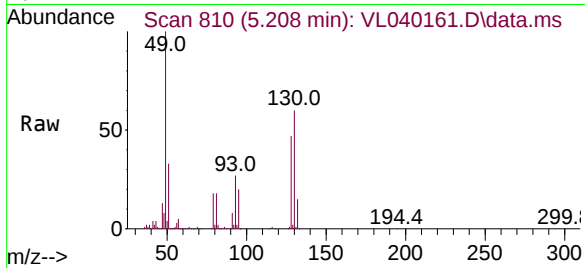




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL040161.D
 Acq: 13 Feb 2023 15:24

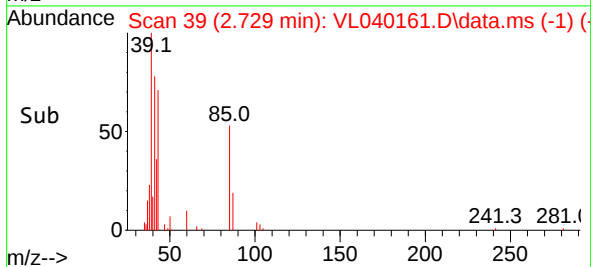
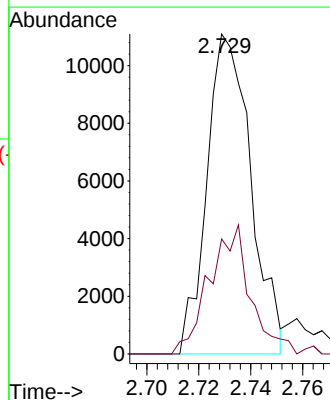
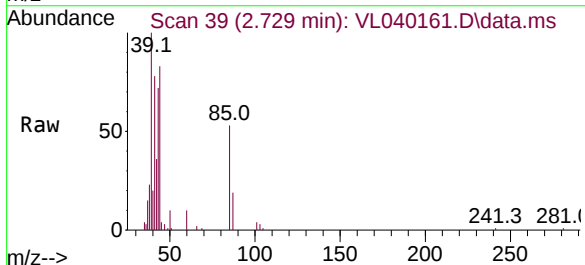
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-06

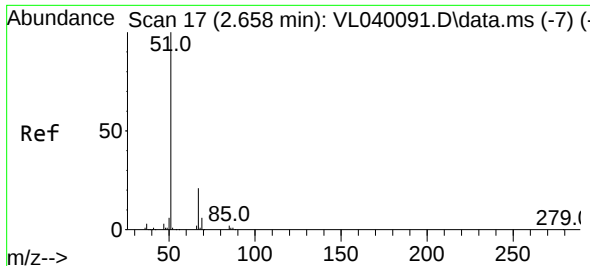
Tgt Ion: 49 Resp: 914385
 Ion Ratio Lower Upper
 49 100
 128 49.0 23.6 71.0
 130 62.0 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.081 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.000 min
 Lab File: VL040161.D
 Acq: 13 Feb 2023 15:24

Tgt Ion: 85 Resp: 13043
 Ion Ratio Lower Upper
 85 100
 87 32.1 26.5 39.7

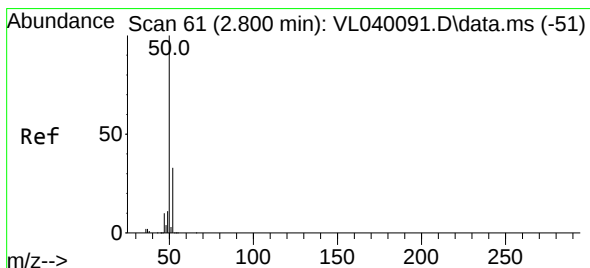
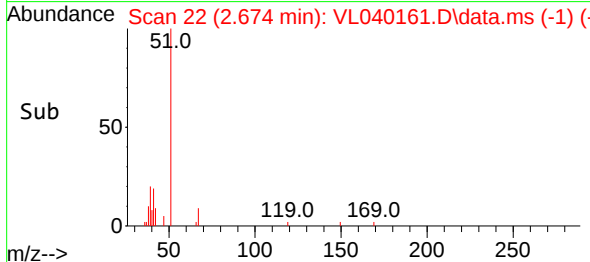
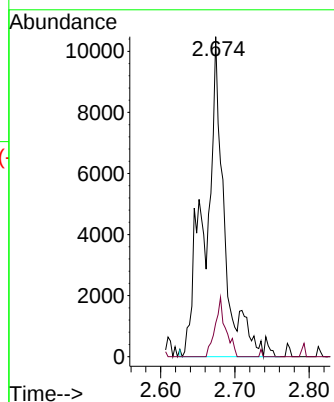
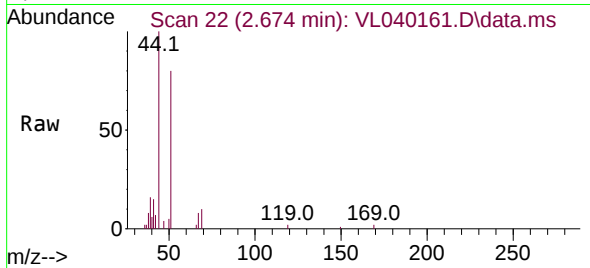




#3
Chlorodifluoromethane
Concen: 0.171 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

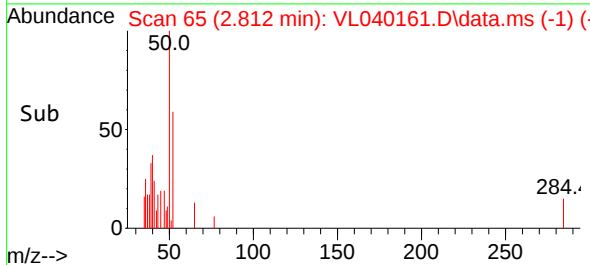
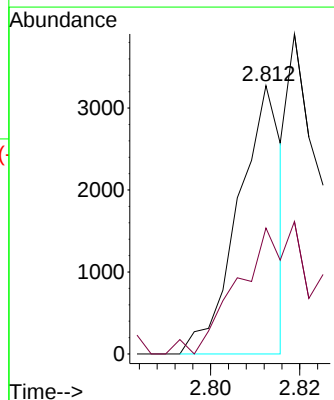
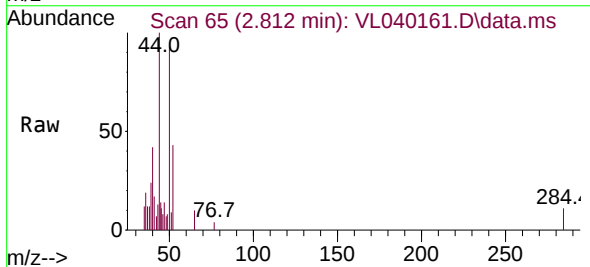
Instrument :
MSVOA_L
ClientSampleId :
SVP-06

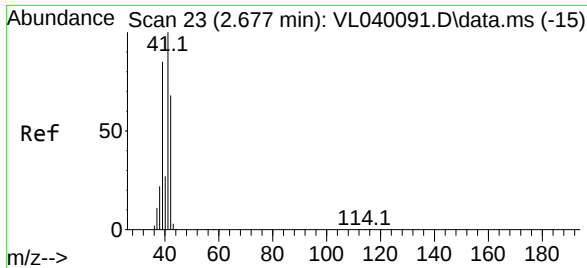
Tgt Ion: 51 Resp: 18758
Ion Ratio Lower Upper
51 100
67 10.3 16.4 24.6#



#4
Chloromethane
Concen: 0.033 ppbv
RT: 2.812 min Scan# 65
Delta R.T. 0.000 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 50 Resp: 2213
Ion Ratio Lower Upper
50 100
52 41.5 26.5 39.7#

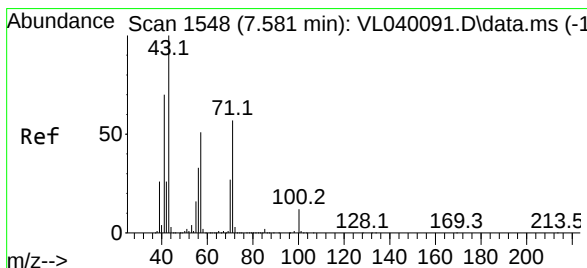
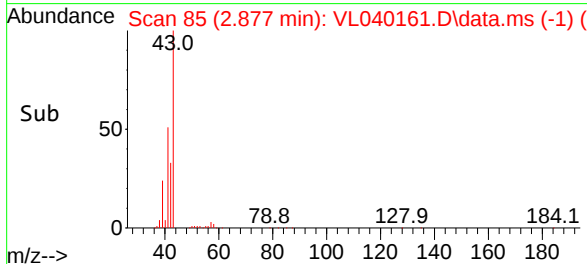
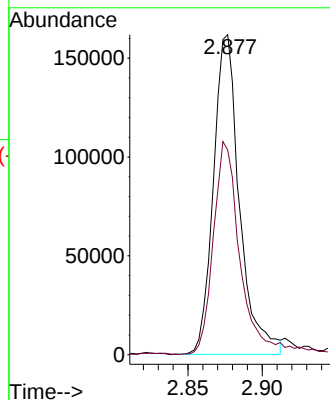
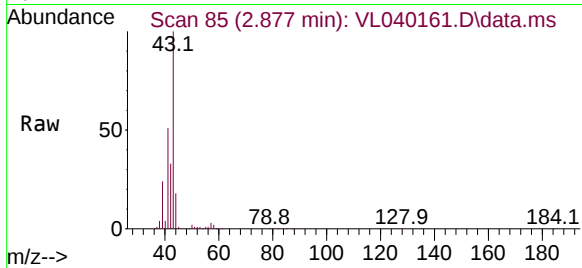




#9
 Propene
 Concen: 4.342 ppbv
 RT: 2.877 min Scan# 81
 Delta R.T. 0.183 min
 Lab File: VL040161.D
 Acq: 13 Feb 2023 15:24

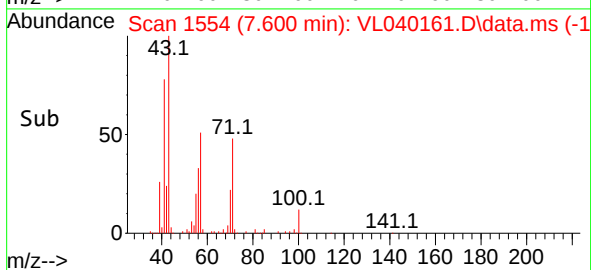
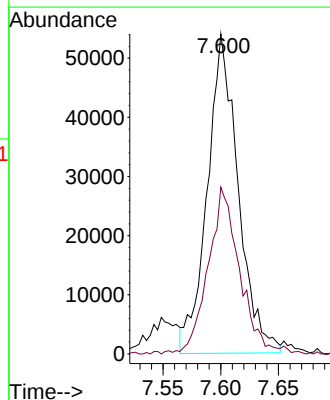
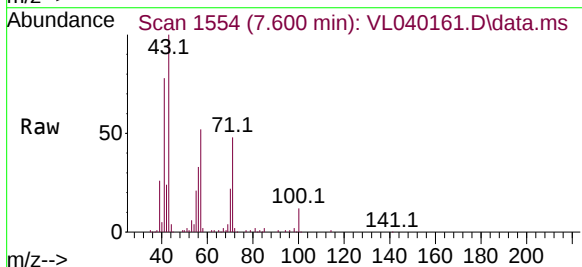
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-06

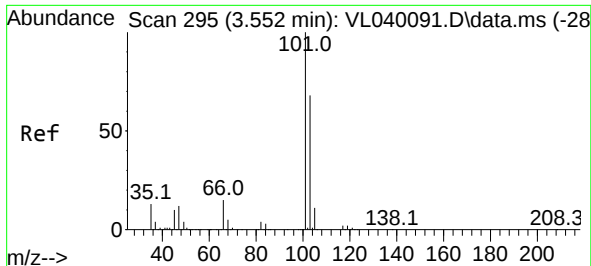
Tgt Ion: 41 Resp: 197838
 Ion Ratio Lower Upper
 41 100
 42 68.7 55.6 83.4



#10
 Heptane
 Concen: 0.955 ppbv
 RT: 7.600 min Scan# 1554
 Delta R.T. -0.003 min
 Lab File: VL040161.D
 Acq: 13 Feb 2023 15:24

Tgt Ion: 43 Resp: 100282
 Ion Ratio Lower Upper
 43 100
 57 54.0 40.9 61.3

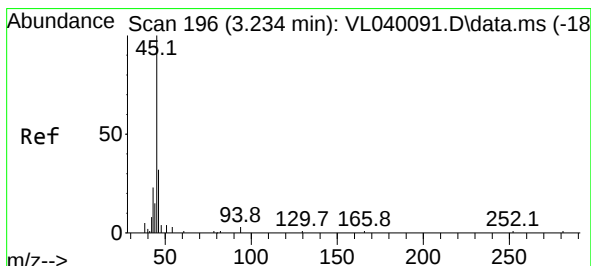
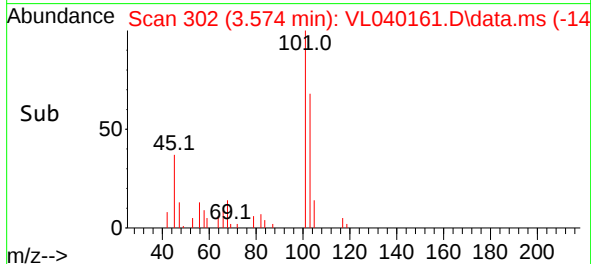
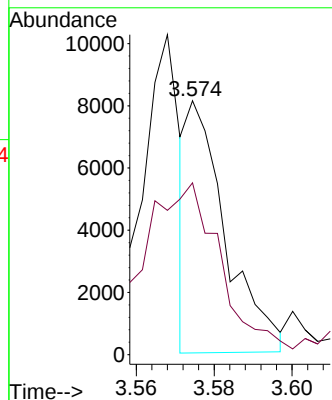
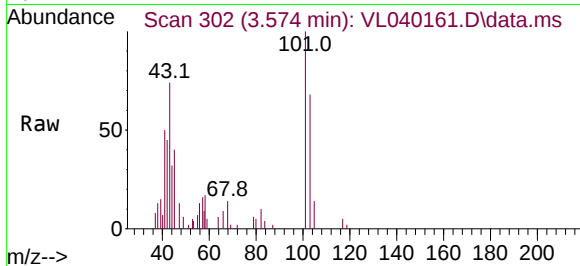




#11
 Trichlorofluoromethane
 Concen: 0.035 ppbv
 RT: 3.574 min Scan# 302
 Delta R.T. 0.006 min
 Lab File: VL040161.D
 Acq: 13 Feb 2023 15:24

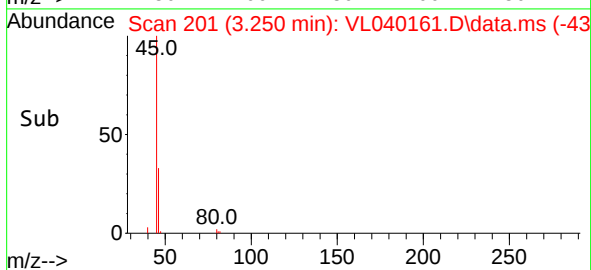
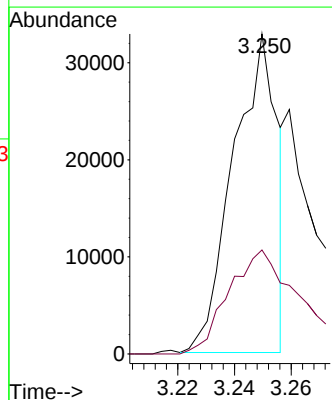
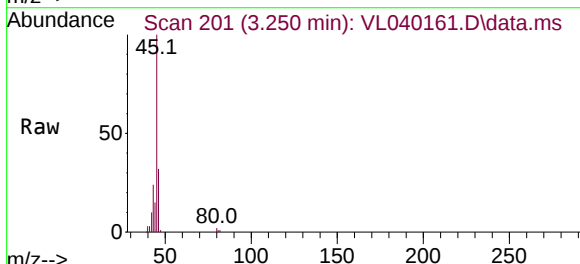
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-06

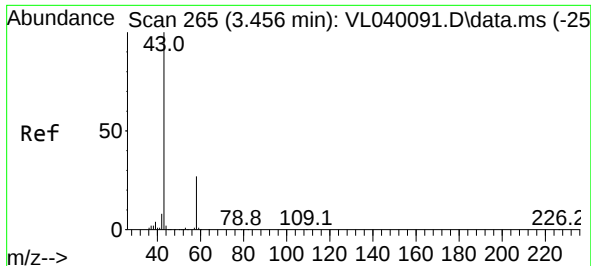
Tgt Ion:101 Resp: 5564
 Ion Ratio Lower Upper
 101 100
 103 68.2 54.0 81.0



#13
 Ethanol
 Concen: 8.415 ppbv
 RT: 3.250 min Scan# 201
 Delta R.T. 0.006 min
 Lab File: VL040161.D
 Acq: 13 Feb 2023 15:24

Tgt Ion: 45 Resp: 35294
 Ion Ratio Lower Upper
 45 100
 46 68.1 14.8 59.2#

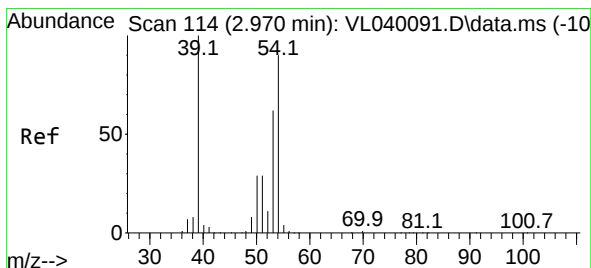
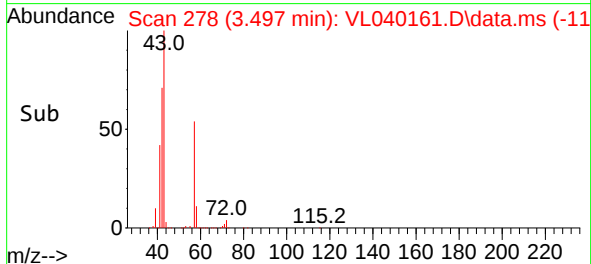
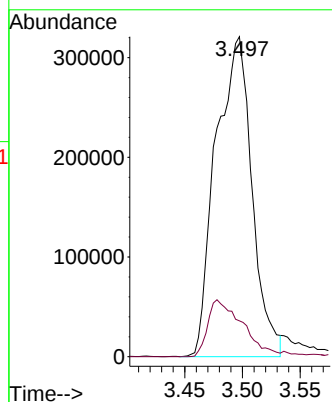
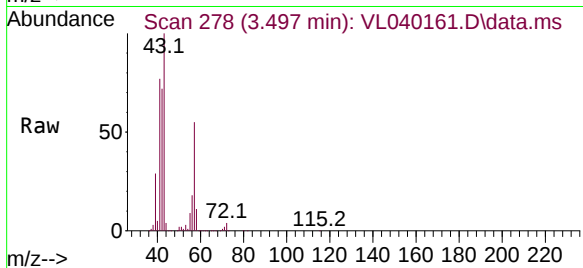




#15
Acetone
Concen: 6.367 ppbv
RT: 3.497 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

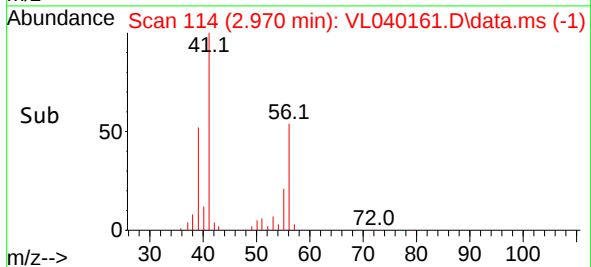
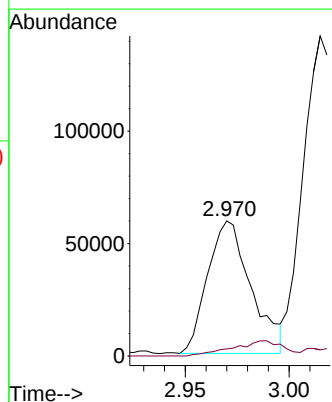
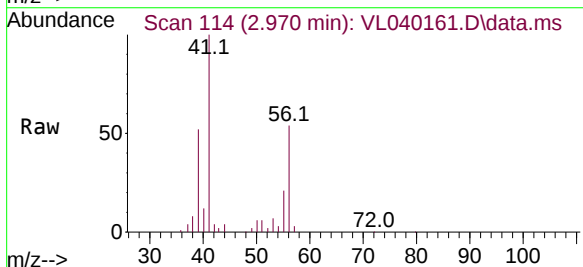
Instrument :
MSVOA_L
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SVP-06

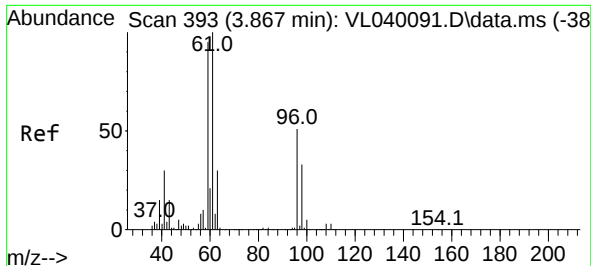
Tgt Ion: 43 Resp: 698215
Ion Ratio Lower Upper
43 100
58 18.1 21.8 32.8#



#16
1,3-Butadiene
Concen: 1.675 ppbv
RT: 2.970 min Scan# 114
Delta R.T. -0.016 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 39 Resp: 85620
Ion Ratio Lower Upper
39 100
54 17.8 67.9 101.9#





#17

tert-Butyl alcohol

Concen: 0.901 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.013 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

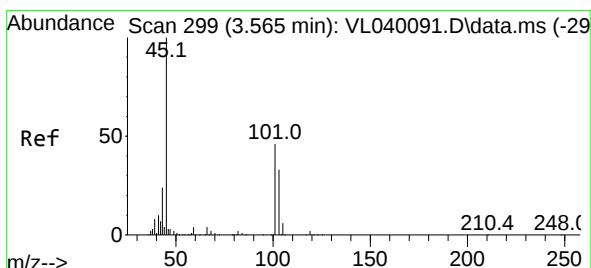
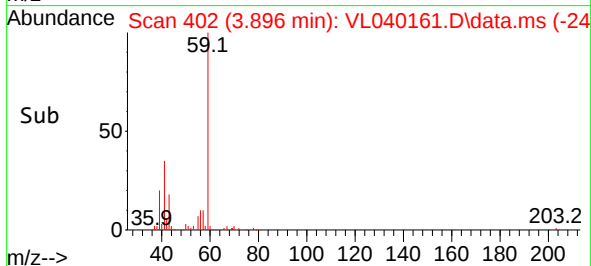
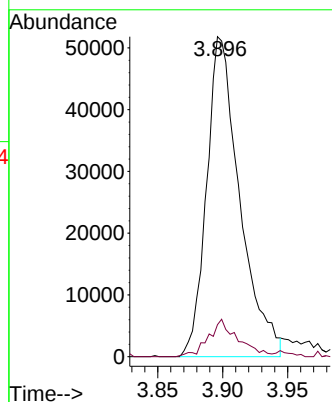
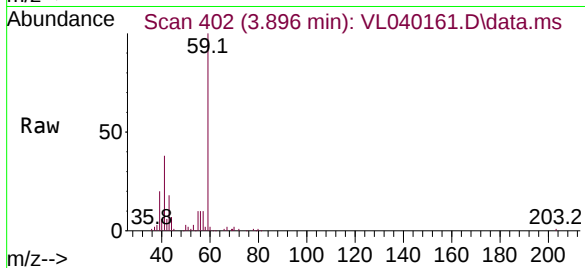
SVP-06

Tgt Ion: 59 Resp: 92015

Ion Ratio Lower Upper

59 100

57 11.6 8.5 12.7



#19

Isopropyl Alcohol

Concen: 0.737 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.016 min

Lab File: VL040161.D

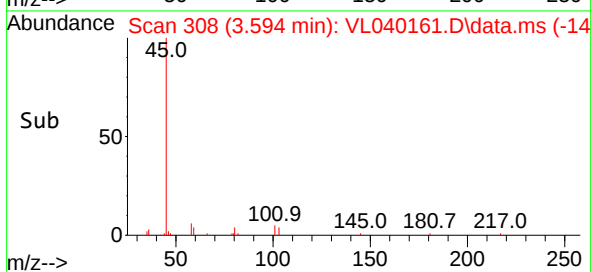
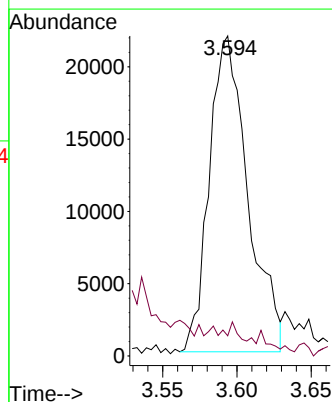
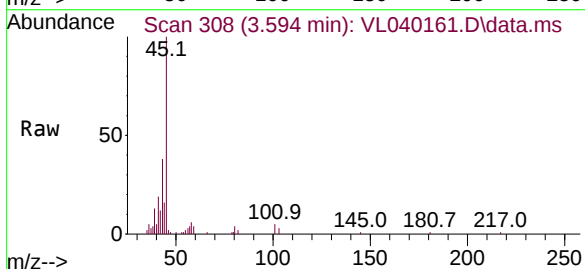
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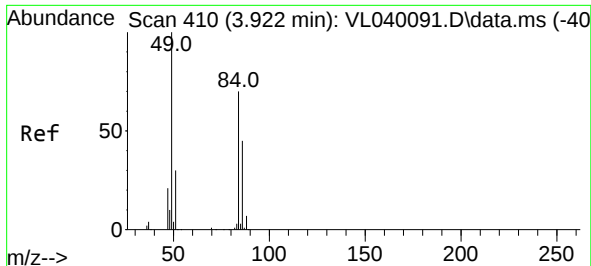
Tgt Ion: 45 Resp: 39565

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#





#20

Methylene Chloride

Concen: 1.463 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.003 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-06

Tgt Ion: 84 Resp: 70788

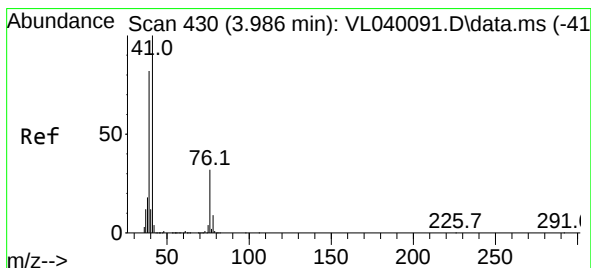
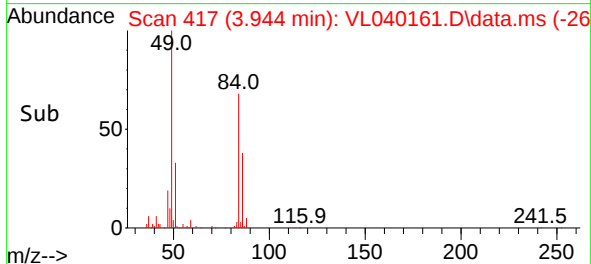
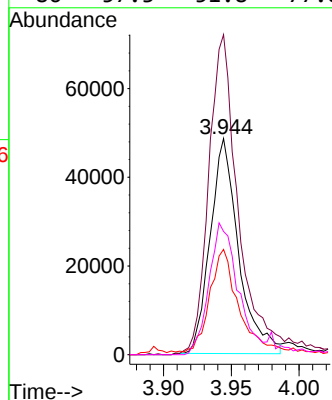
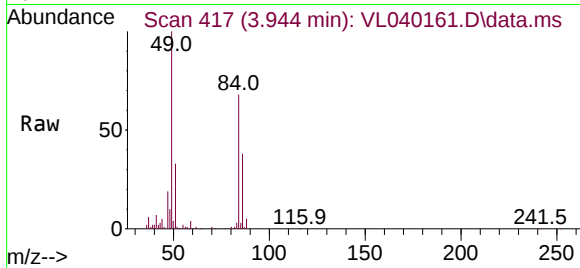
Ion Ratio Lower Upper

84 100

49 148.2 114.6 171.8

51 47.3 34.3 51.5

86 57.3 51.8 77.8



#21

Allyl Chloride

Concen: 0.108 ppbv

RT: 3.963 min Scan# 423

Delta R.T. -0.042 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

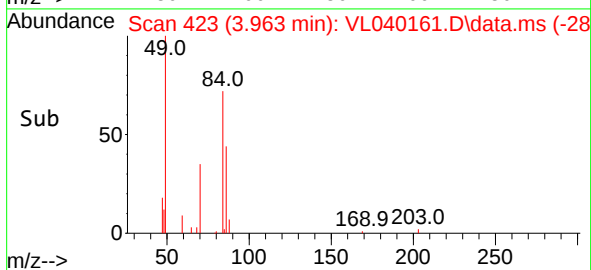
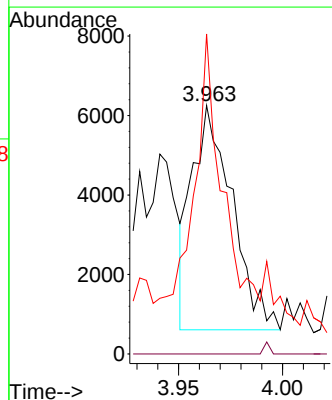
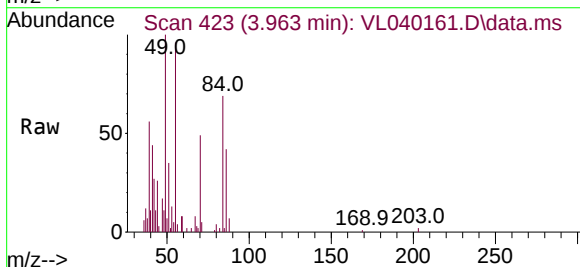
Tgt Ion: 41 Resp: 7611

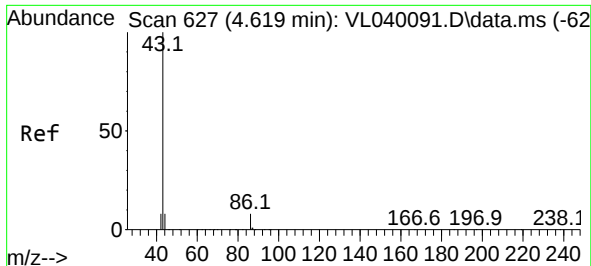
Ion Ratio Lower Upper

41 100

76 0.0 25.9 38.9#

39 158.2 66.8 100.2#



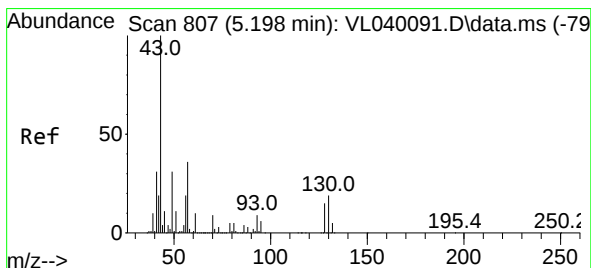
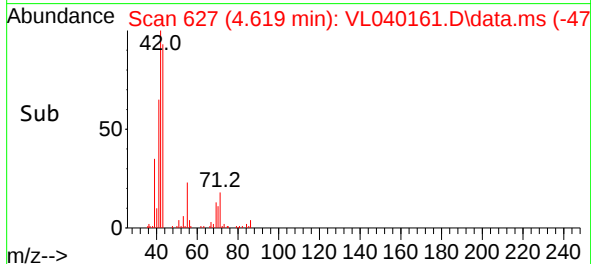
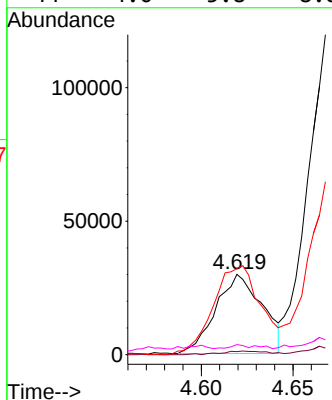
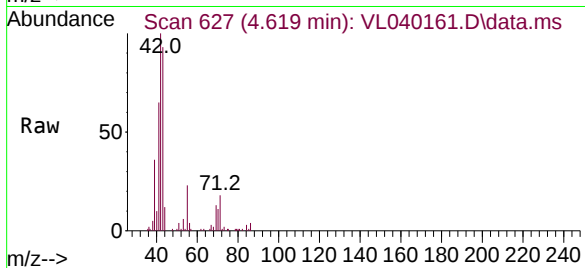


#23
Vinyl Acetate
Concen: 1.473 ppbv
RT: 4.619 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-06

Tgt Ion: 43 Resp: 52368

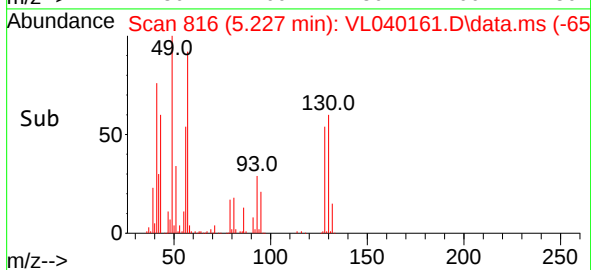
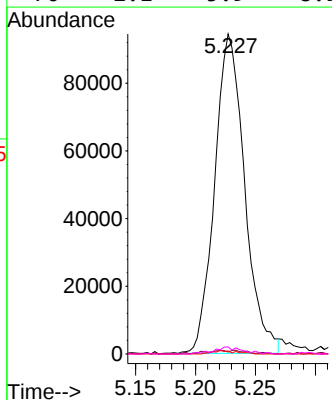
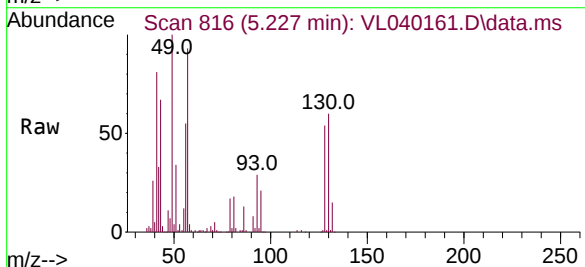
Ion	Ratio	Lower	Upper
43	100		
86	3.9	5.6	8.4#
42	104.2	7.7	11.5#
44	4.0	5.8	8.8#

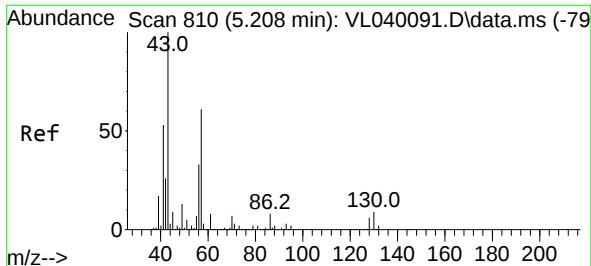


#25
Ethyl Acetate
Concen: 0.849 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.010 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 43 Resp: 163946

Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.5	12.7#
61	0.8	8.4	12.6#
70	2.1	5.9	8.9#

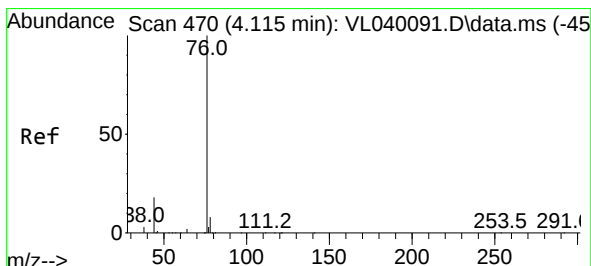
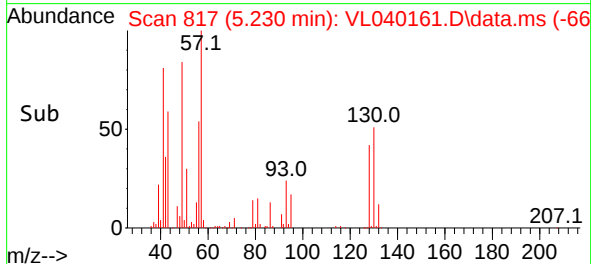
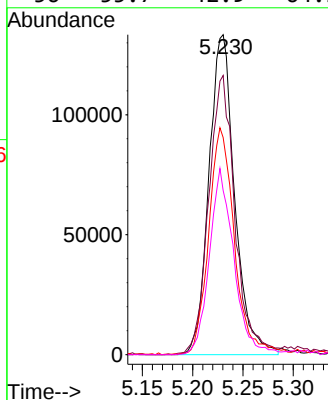
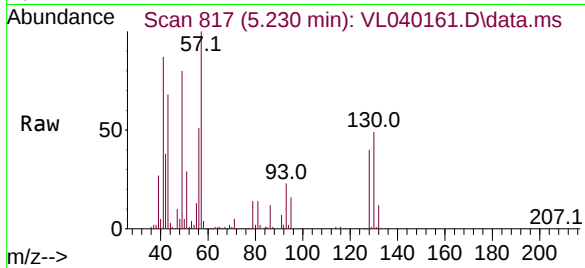




#26
Hexane
Concen: 2.812 ppbv
RT: 5.230 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

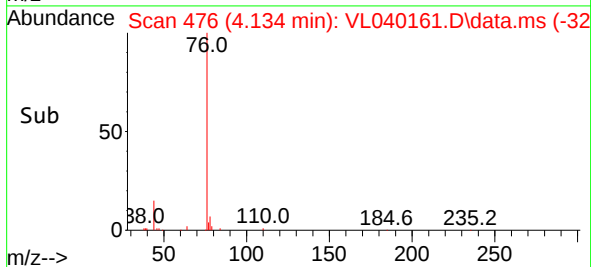
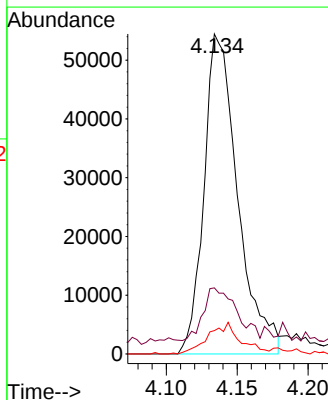
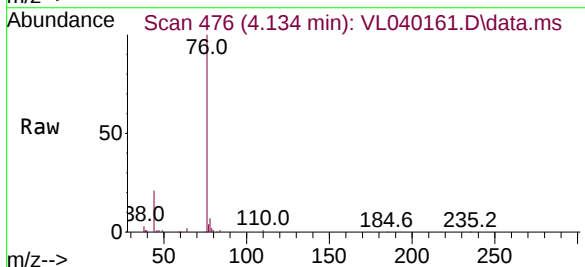
Instrument :
MSVOA_L
ClientSampleId :
SVP-06

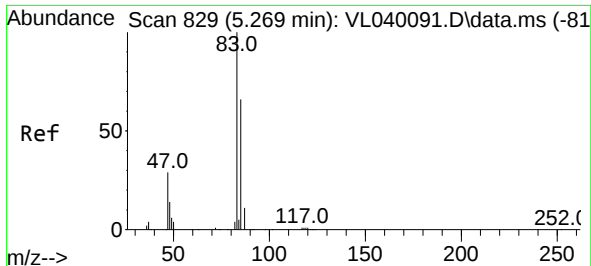
Tgt Ion: 57 Resp: 237767
Ion Ratio Lower Upper
57 100
41 90.0 72.2 108.4
43 73.5 192.1 288.1#
56 55.7 42.9 64.3



#27
Carbon Disulfide
Concen: 0.821 ppbv
RT: 4.134 min Scan# 476
Delta R.T. 0.000 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 76 Resp: 89977
Ion Ratio Lower Upper
76 100
44 24.1 14.9 22.3#
78 10.8 8.2 12.2





#29

Chloroform

Concen: 0.104 ppbv

RT: 5.288 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

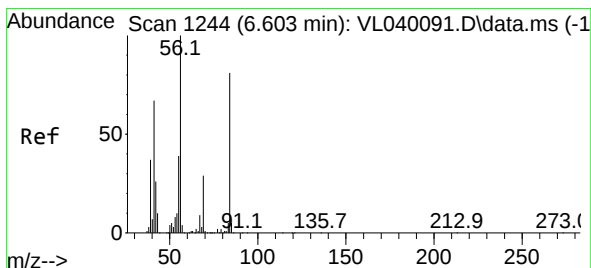
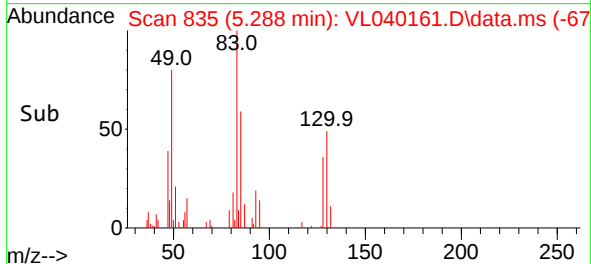
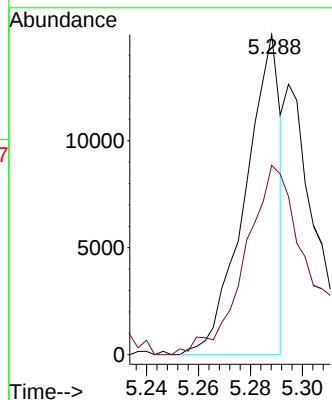
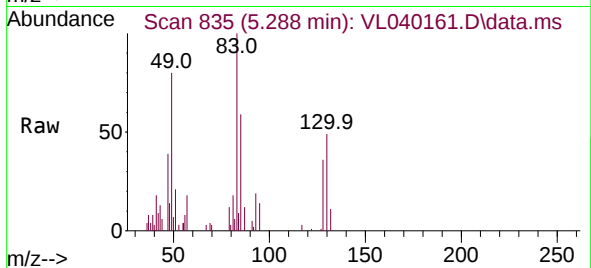
SVP-06

Tgt Ion: 83 Resp: 14101

Ion Ratio Lower Upper

83 100

85 57.3 53.1 79.7



#30

Cyclohexane

Concen: 0.221 ppbv

RT: 6.623 min Scan# 1250

Delta R.T. 0.003 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

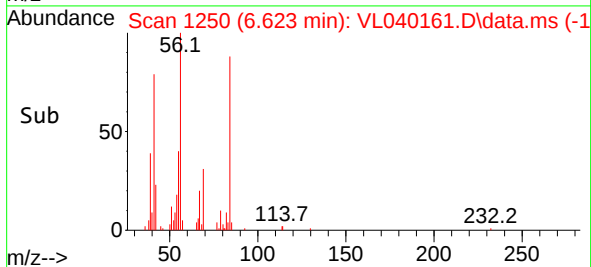
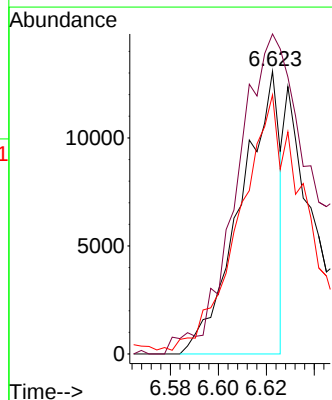
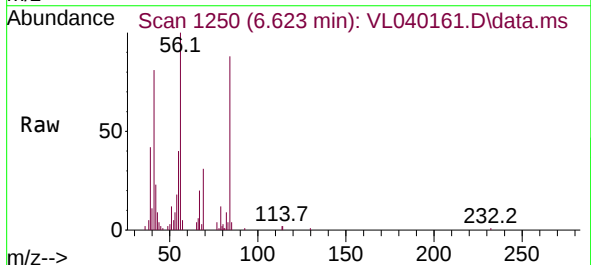
Tgt Ion: 84 Resp: 14884

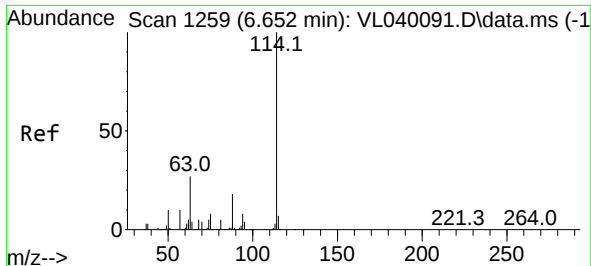
Ion Ratio Lower Upper

84 100

56 209.1 111.5 167.3#

41 178.4 71.4 107.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-06

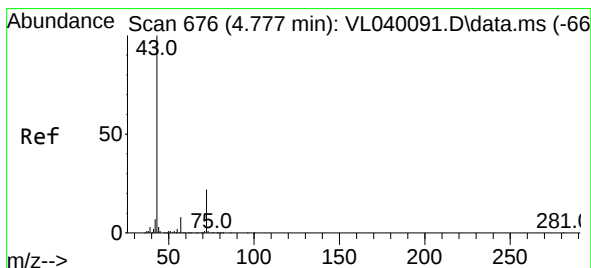
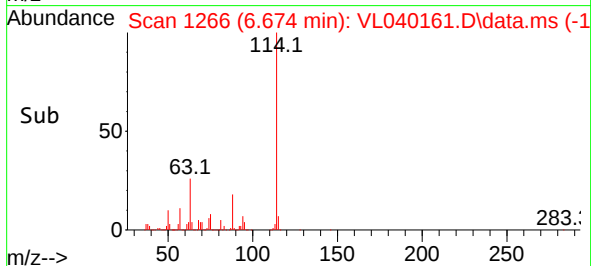
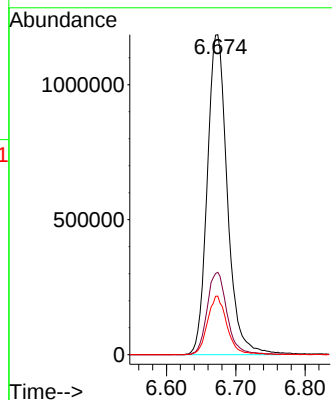
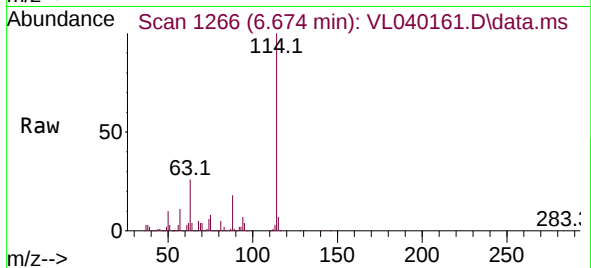
Tgt Ion:114 Resp: 2379402

Ion Ratio Lower Upper

114 100

63 25.9 21.8 32.8

88 17.9 14.8 22.2



#34

2-Butanone

Concen: 0.668 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.010 min

Lab File: VL040161.D

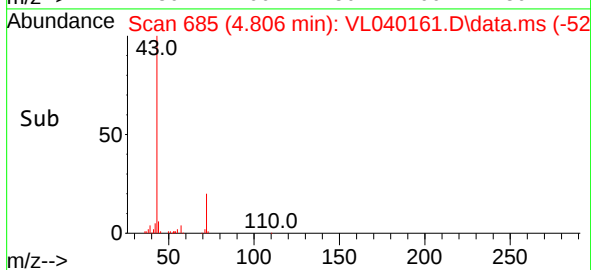
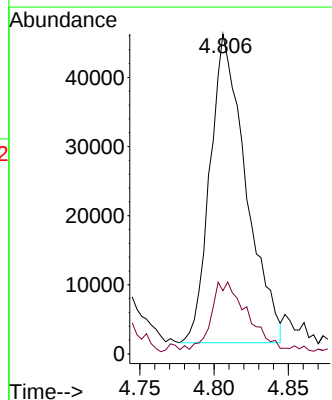
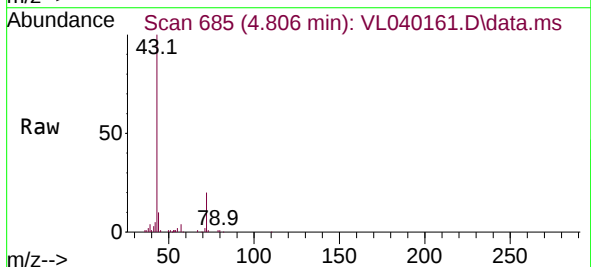
Acq: 13 Feb 2023 15:24

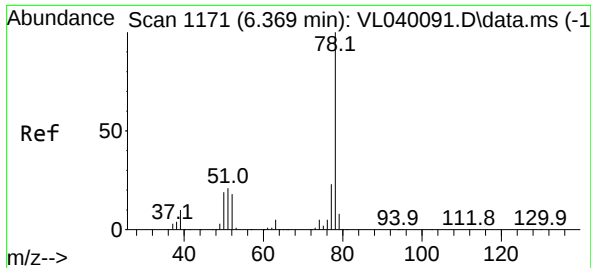
Tgt Ion: 43 Resp: 75148

Ion Ratio Lower Upper

43 100

72 27.4 18.4 27.6

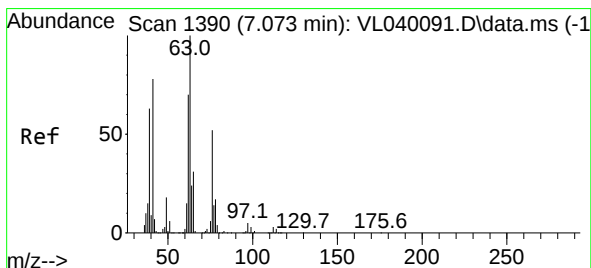
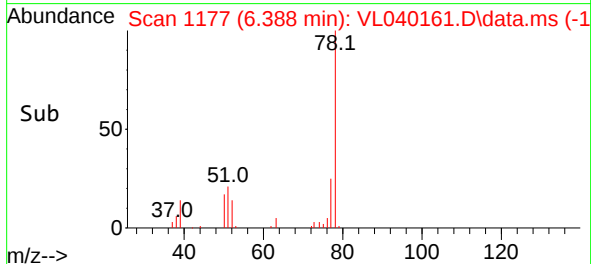
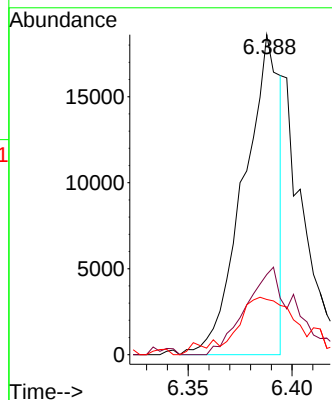
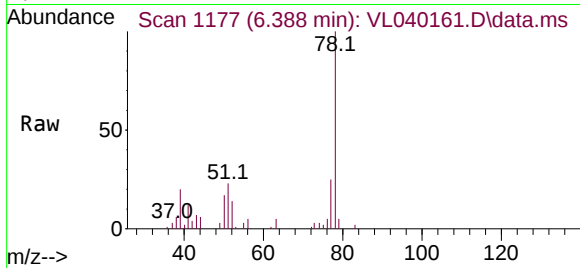




#36
Benzene
Concen: 0.128 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. -0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

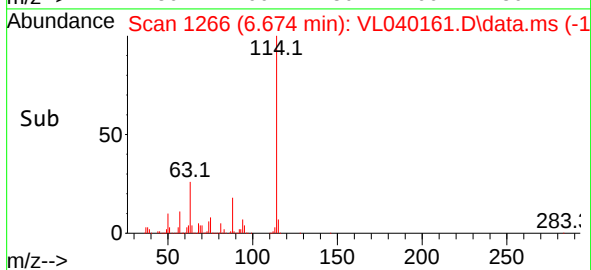
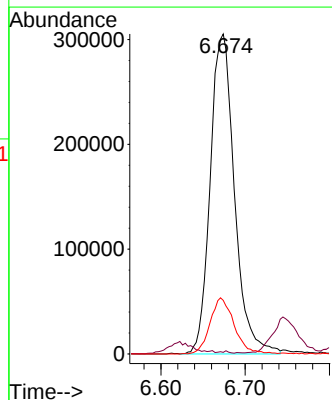
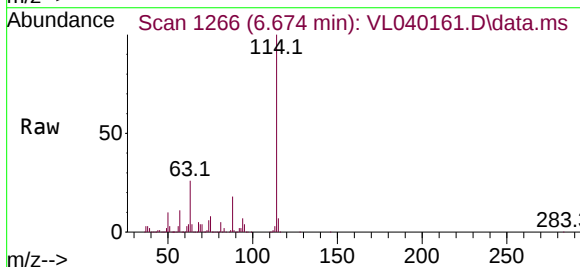
Instrument : MSVOA_L
ClientSampleId : SVP-06

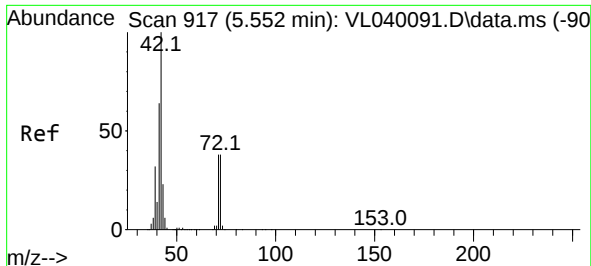
Tgt Ion: 78 Resp: 22461
Ion Ratio Lower Upper
78 100
77 25.1 18.1 27.1
50 14.1 15.6 23.4#



#39
1,2-Dichloropropane
Concen: 8.858 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. -0.421 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 63 Resp: 610052
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 16.8 55.8 83.8#





#41

Tetrahydrofuran

Concen: 0.139 ppbv

RT: 5.838 min Scan# 1006

Delta R.T. 0.264 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-06

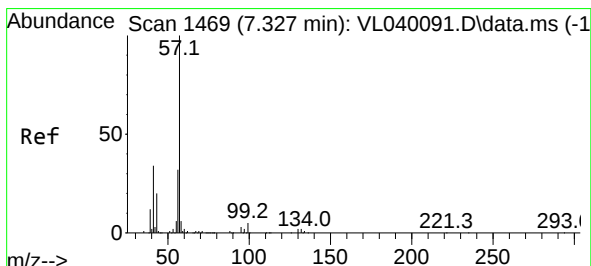
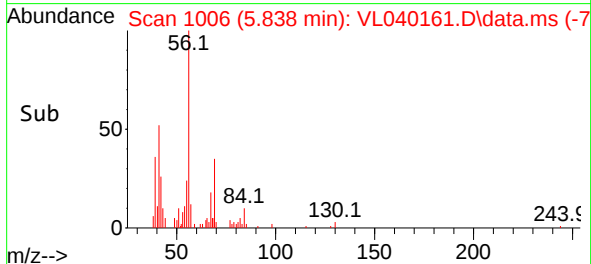
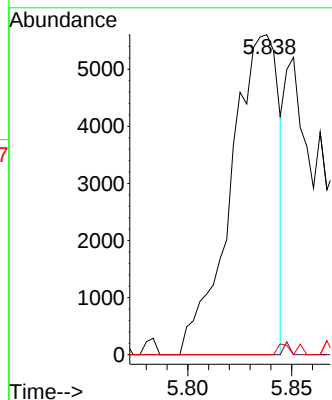
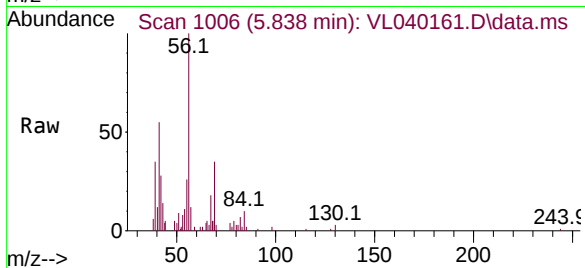
Tgt Ion: 42 Resp: 9006

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 0.0 31.4 47.2#



#44

2,2,4-Trimethylpentane

Concen: 0.209 ppbv

RT: 7.346 min Scan# 1475

Delta R.T. -0.003 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

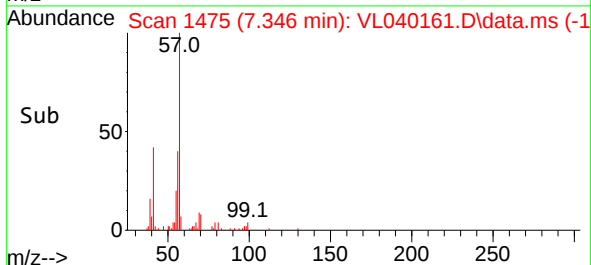
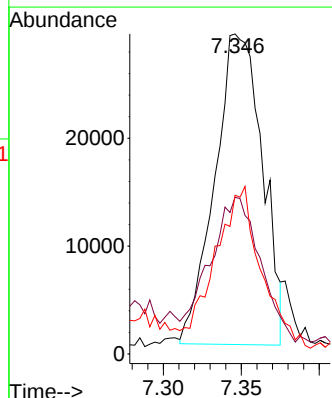
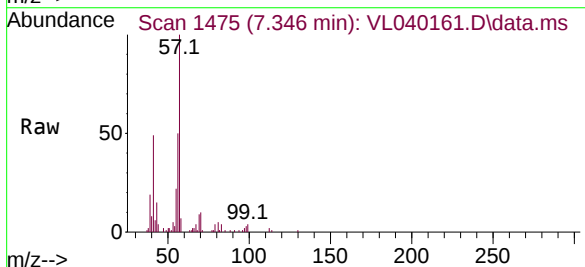
Tgt Ion: 57 Resp: 61232

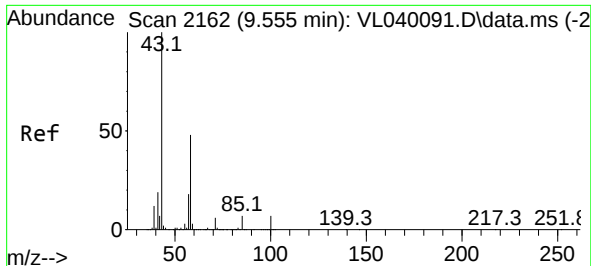
Ion Ratio Lower Upper

57 100

41 60.3 27.1 40.7#

56 58.2 25.0 37.4#

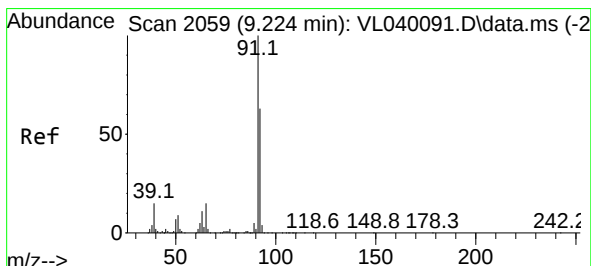
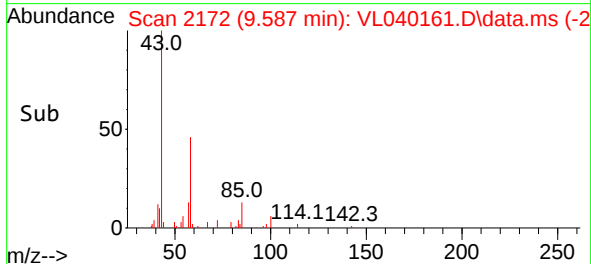
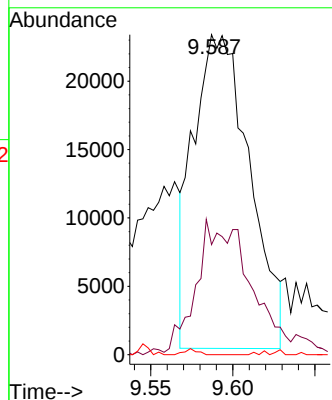
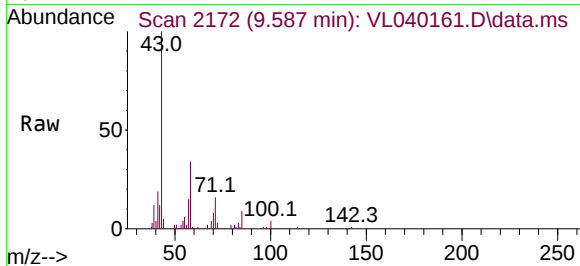




#51
2-Hexanone
Concen: 0.407 ppbv
RT: 9.587 min Scan# 2162
Delta R.T. 0.013 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

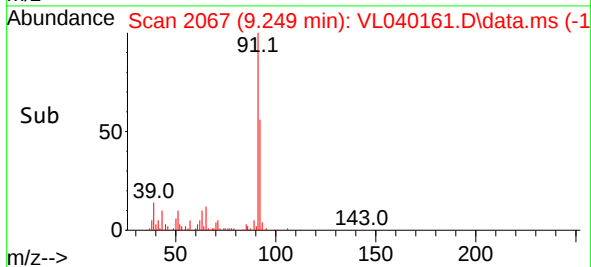
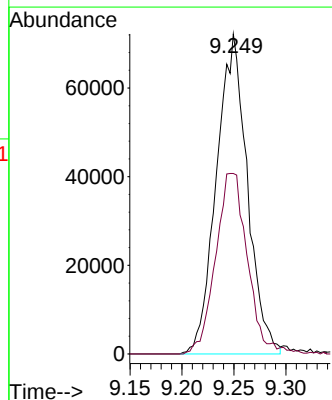
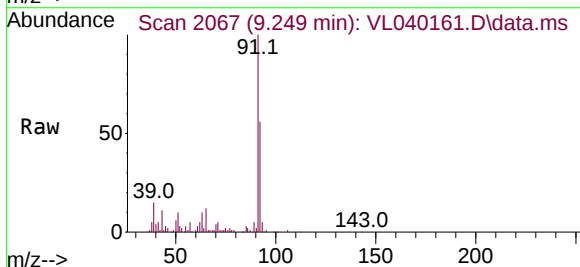
Instrument :
MSVOA_L
ClientSampleId :
SVP-06

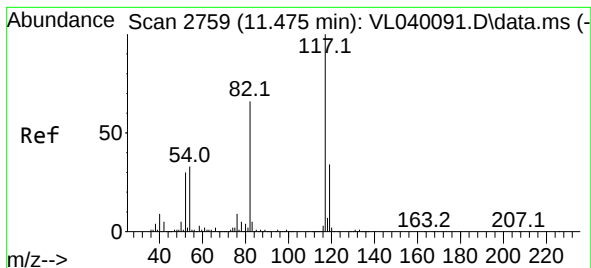
Tgt Ion: 43 Resp: 54588
Ion Ratio Lower Upper
43 100
58 44.7 37.5 56.3
98 0.4 0.4 0.6



#53
Toluene
Concen: 0.794 ppbv
RT: 9.249 min Scan# 2067
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 91 Resp: 149130
Ion Ratio Lower Upper
91 100
92 58.7 48.3 72.5

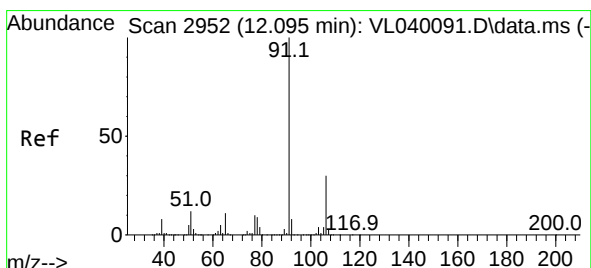
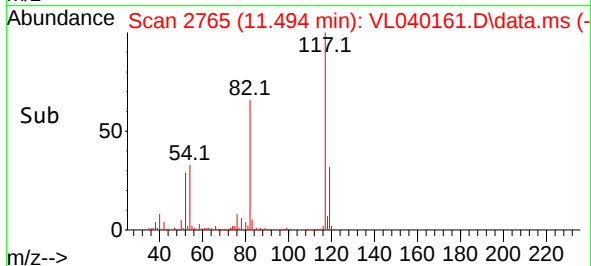
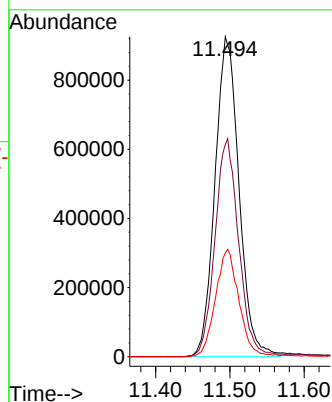
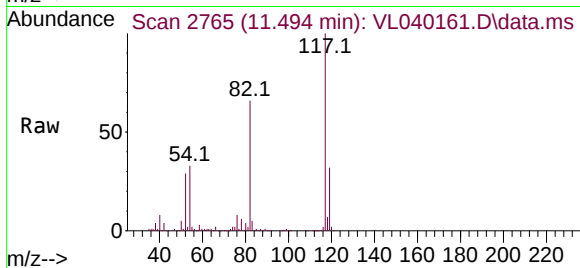




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

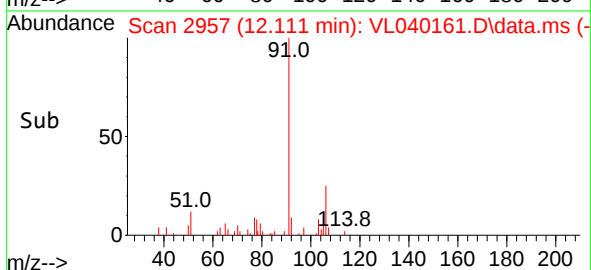
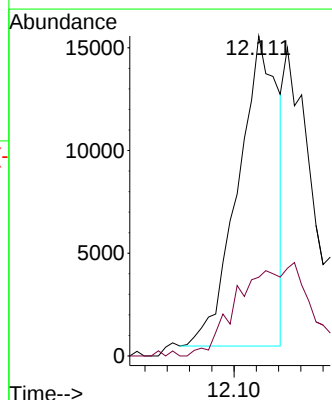
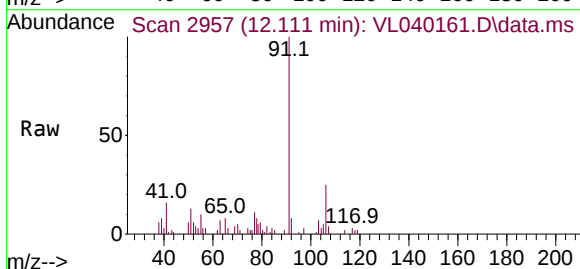
Instrument :
MSVOA_L
ClientSampleId :
SVP-06

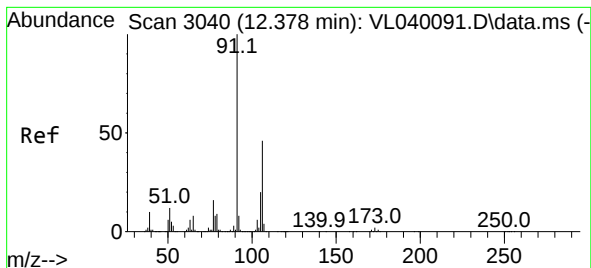
Tgt Ion:117 Resp: 2080819
Ion Ratio Lower Upper
117 100
82 68.4 54.4 81.6
119 33.2 26.8 40.2



#58
Ethyl Benzene
Concen: 0.081 ppbv
RT: 12.111 min Scan# 2957
Delta R.T. -0.006 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 91 Resp: 18853
Ion Ratio Lower Upper
91 100
106 25.4 23.7 35.5





#59

m/p-Xylene

Concen: 0.096 ppbv

RT: 12.407 min Scan# 3040

Delta R.T. 0.003 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_1

ClientSampleId :

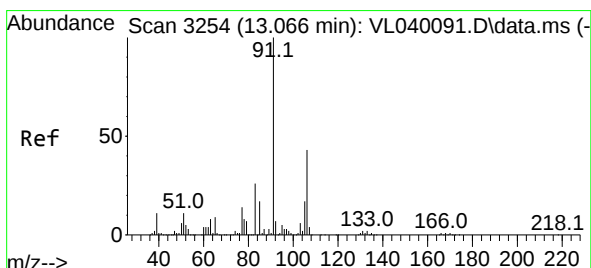
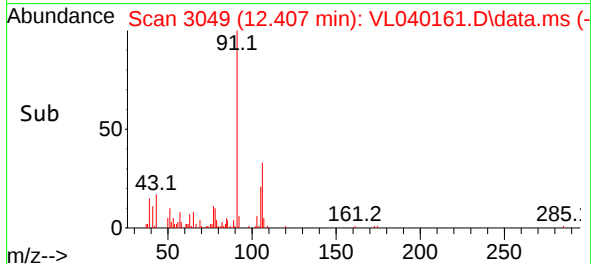
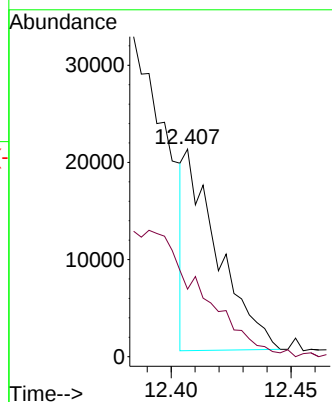
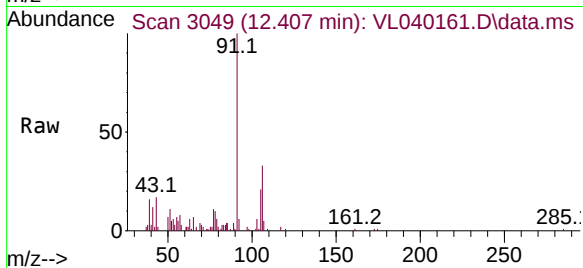
SVP-06

Tgt Ion: 91 Resp: 20015

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.4#



#60

o-Xylene

Concen: 0.218 ppbv

RT: 13.089 min Scan# 3261

Delta R.T. -0.000 min

Lab File: VL040161.D

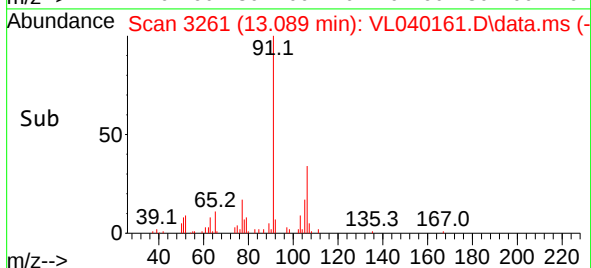
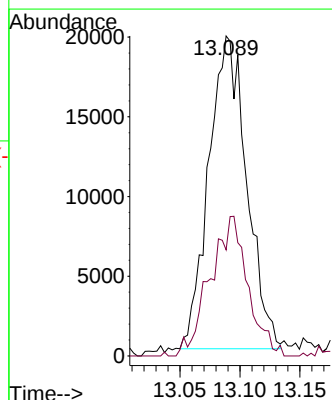
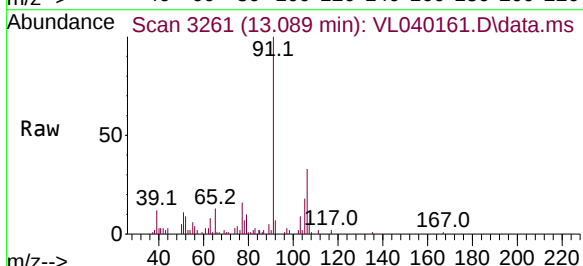
Acq: 13 Feb 2023 15:24

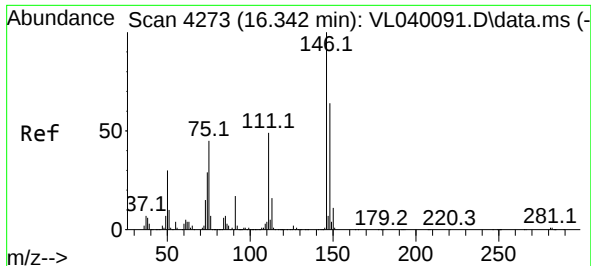
Tgt Ion: 91 Resp: 43180

Ion Ratio Lower Upper

91 100

106 44.6 21.6 64.8

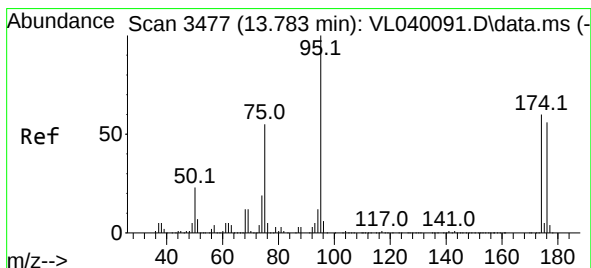
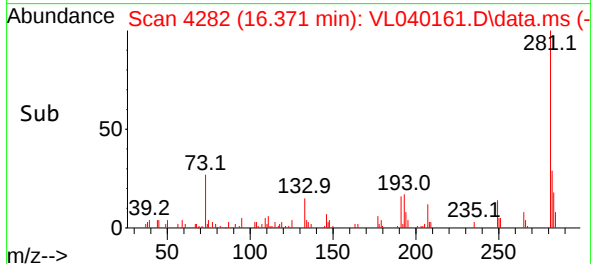
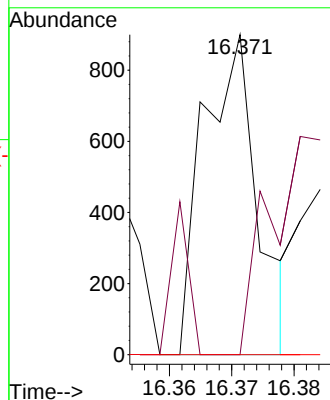
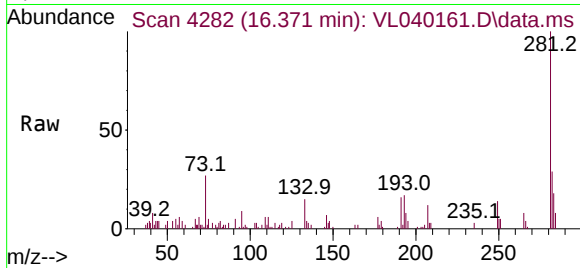




#66
Benzyl Chloride
Concen: 0.033 ppbv
RT: 16.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

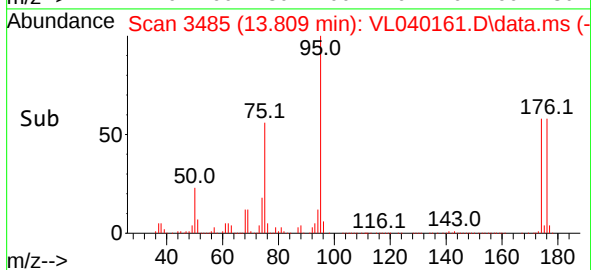
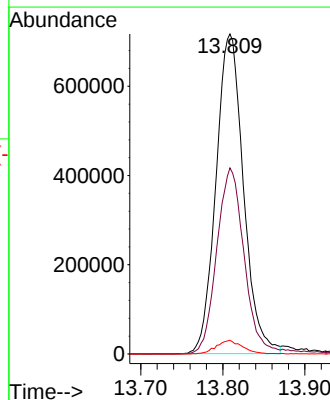
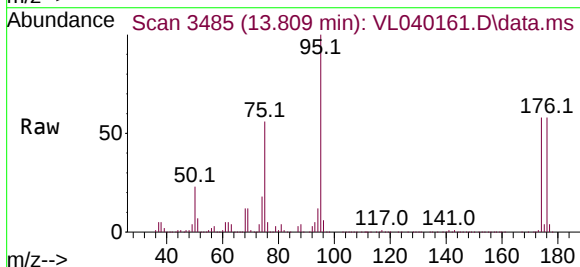
Instrument :
MSVOA_1
ClientSampleId :
SVP-06

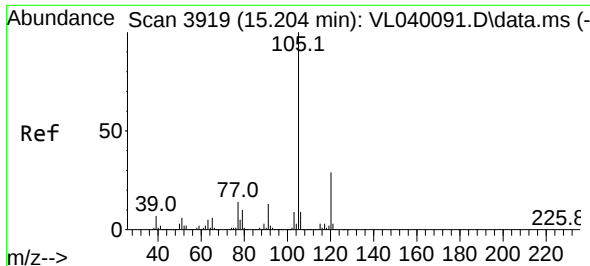
Tgt Ion: 91 Resp: 544
Ion Ratio Lower Upper
91 100
126 0.0 11.5 17.3#
128 0.0 0.0 0.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.648 ppbv
RT: 13.809 min Scan# 3485
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 95 Resp: 1668525
Ion Ratio Lower Upper
95 100
174 59.5 47.7 71.5
175 4.1 3.4 5.2

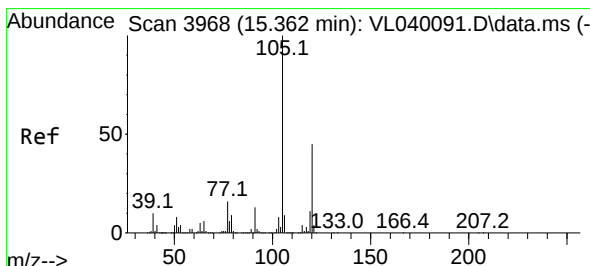
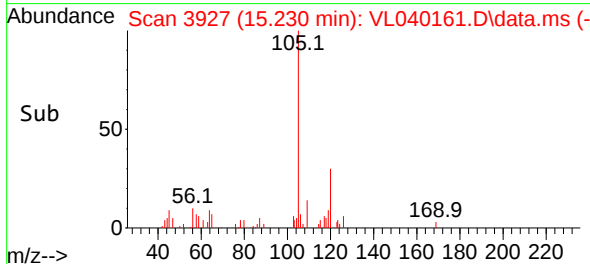
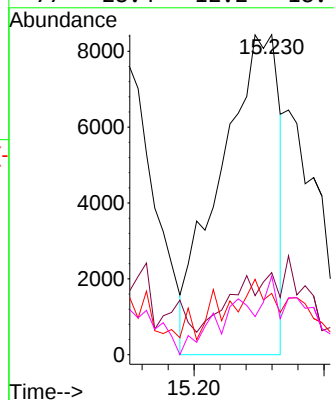
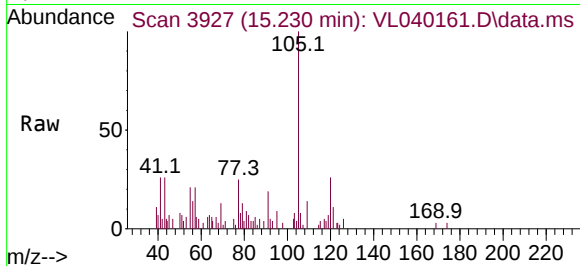




#72
4-Ethyltoluene
Concen: 0.060 ppbv
RT: 15.230 min Scan# 3919
Delta R.T. 0.006 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

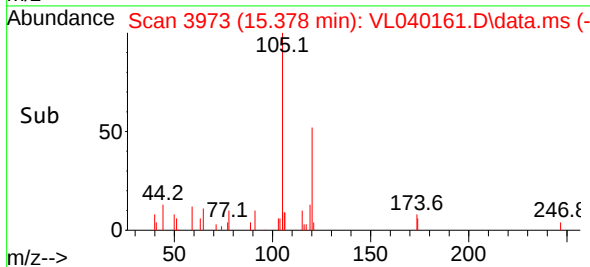
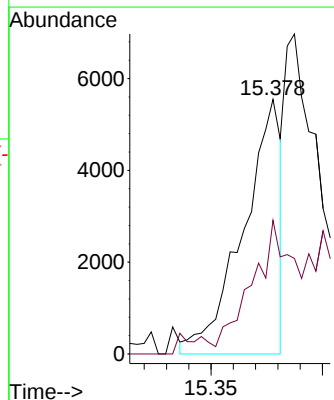
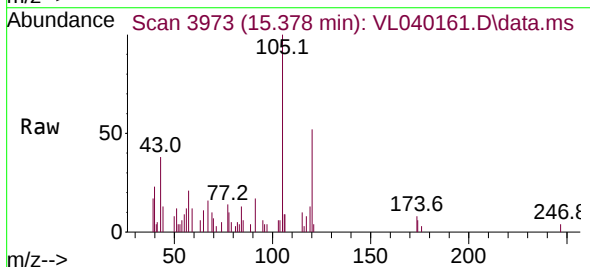
Instrument :
MSVOA_L
ClientSampleId :
SVP-06

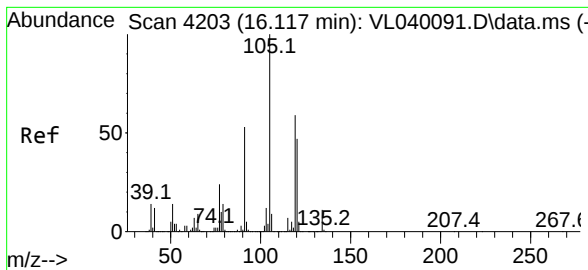
Tgt Ion:105 Resp: 13225
Ion Ratio Lower Upper
105 100
120 0.0 23.1 34.7#
91 29.0 11.2 16.8#
77 28.4 12.2 18.4#



#73
1,3,5-Trimethylbenzene
Concen: 0.033 ppbv
RT: 15.378 min Scan# 3973
Delta R.T. -0.006 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

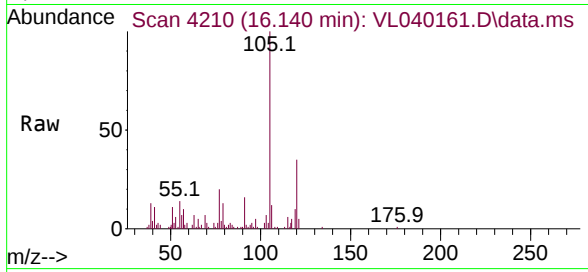
Tgt Ion:105 Resp: 6507
Ion Ratio Lower Upper
105 100
120 46.5 36.2 54.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.173 ppbv
 RT: 16.140 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL040161.D
 Acq: 13 Feb 2023 15:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-06



Tgt Ion:	105	Resp:	38025
Ion	Ratio	Lower	Upper
105	100		
120	35.2	38.0	57.0#
91	15.0	42.1	63.1#
77	17.4	19.3	28.9#

