

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021623\
 Data File : VL040189.D
 Acq On : 16 Feb 2023 22:19
 Operator : SY/MD
 Sample : 01550-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL

Quant Time: Feb 17 03:32:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 15 17:01:01 2023
 Response via : Initial Calibration

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

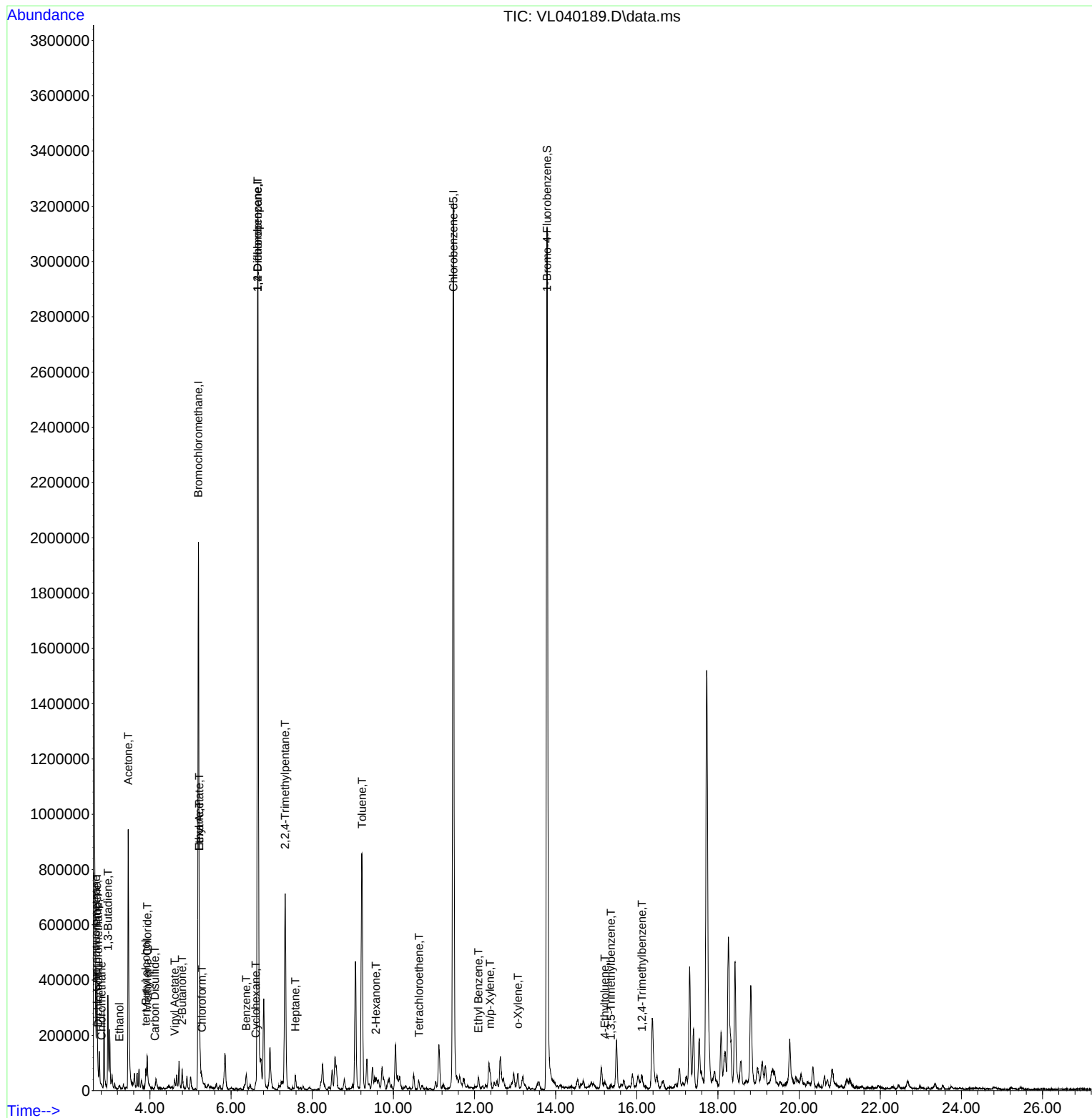
Internal Standards						
1) Bromochloromethane	5.195	49	950536	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.658	114	2496646	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.478	117	2180039	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	1637788	9.136	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.725	85	7204	0.041	ppbv	100
3) Chlorodifluoromethane	2.671	51	4700	0.041	ppbv #	82
4) Chloromethane	2.809	50	1983	0.028	ppbv #	67
9) Propene	2.693	41	150197	3.245	ppbv	94
10) Heptane	7.584	43	16214	0.147	ppbv #	26
13) Ethanol	3.246	45	12008	2.818	ppbv #	41
15) Acetone	3.465	43	921087	8.049	ppbv	93
16) 1,3-Butadiene	2.963	39	93127	1.782	ppbv #	28
17) tert-Butyl alcohol	3.899	59	47321	0.453	ppbv #	93
20) Methylene Chloride	3.934	84	33614	0.564	ppbv	91
23) Vinyl Acetate	4.610	43	10689	0.308	ppbv #	1
25) Ethyl Acetate	5.214	43	44904	0.211	ppbv #	80
26) Hexane	5.214	57	59868	0.656	ppbv #	41
27) Carbon Disulfide	4.127	76	7593	0.066	ppbv #	55
29) Chloroform	5.282	83	3838	0.024	ppbv	92
30) Cyclohexane	6.610	84	3263	0.046	ppbv #	1
34) 2-Butanone	4.793	43	76577	0.622	ppbv	92
36) Benzene	6.372	78	41366	0.213	ppbv	95
39) 1,2-Dichloropropane	6.658	63	611697	8.093	ppbv #	25
44) 2,2,4-Trimethylpentane	7.333	57	730949	2.254	ppbv	95
51) 2-Hexanone	9.571	43	7935	0.054	ppbv #	29
52) Tetrachloroethene	10.632	164	2500	0.041	ppbv #	56
53) Toluene	9.230	91	101580	0.488	ppbv	97
58) Ethyl Benzene	12.095	91	21741	0.082	ppbv	95
59) m/p-Xylene	12.384	91	17786	0.076	ppbv #	33
60) o-Xylene	13.069	91	21489	0.095	ppbv #	37
72) 4-Ethyltoluene	15.211	105	6126	0.025	ppbv #	40
73) 1,3,5-Trimethylbenzene	15.362	105	7091	0.031	ppbv #	70
74) 1,2,4-Trimethylbenzene	16.127	105	9862	0.039	ppbv #	61

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

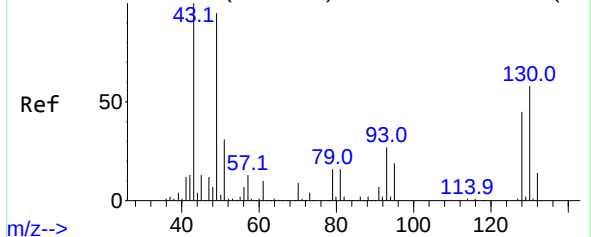
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021623\
Data File : VL040189.D
Acq On : 16 Feb 2023 22:19
Operator : SY/MD
Sample : 01550-02DL 10X
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Instrument :
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SVP-05DL

Quant Time: Feb 17 03:32:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 15 17:01:01 2023
Response via : Initial Calibration

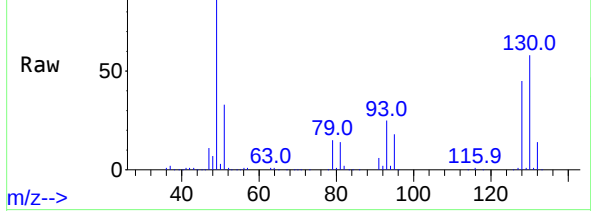


Abundance Scan 801 (5.179 min): VL040169.D\data.ms (-78)



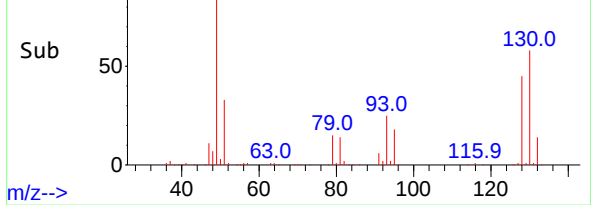
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Abundance Scan 806 (5.195 min): VL040189.D\data.ms



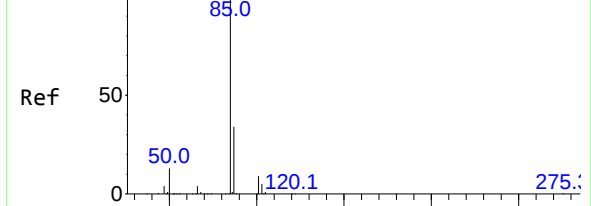
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Abundance Scan 806 (5.195 min): VL040189.D\data.ms (-64)



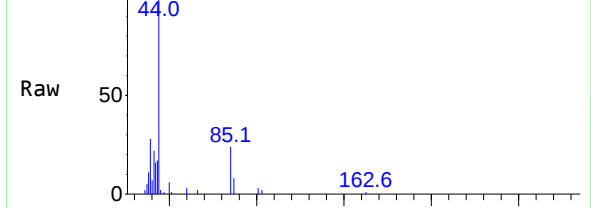
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Abundance Scan 34 (2.713 min): VL040169.D\data.ms (-25)



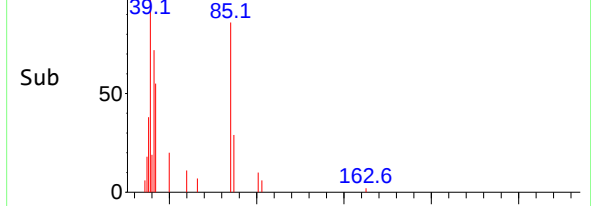
m/z-->

Abundance Scan 38 (2.725 min): VL040189.D\data.ms



m/z-->

Abundance Scan 38 (2.725 min): VL040189.D\data.ms (-1)



m/z-->

#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.195 min Scan# 80

Delta R.T. 0.016 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

Instrument :

MSVOA_L

ClientSampleId :

SVP-05DL

Tgt Ion: 49 Resp: 950536

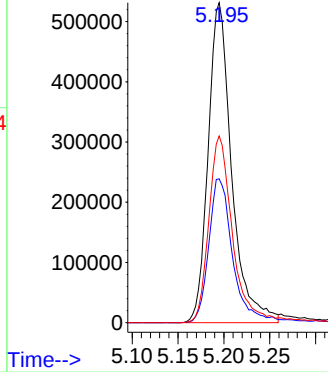
Ion Ratio Lower Upper

49 100

128 46.7 24.1 72.3

130 60.8 30.9 92.8

Abundance



Time-->

#2

Dichlorodifluoromethane

Concen: 0.041 ppbv

RT: 2.725 min Scan# 38

Delta R.T. 0.013 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

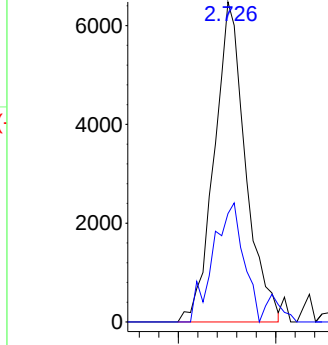
Tgt Ion: 85 Resp: 7204

Ion Ratio Lower Upper

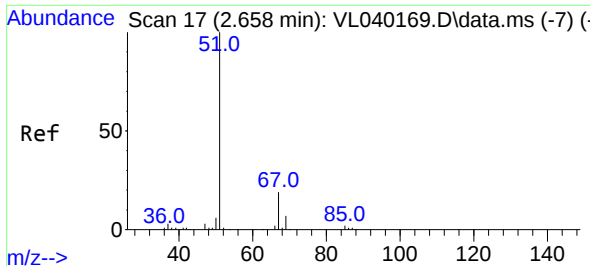
85 100

87 33.9 27.0 40.6

Abundance



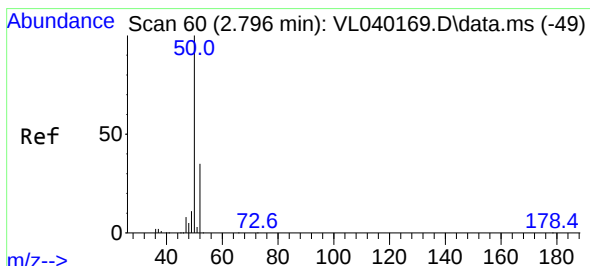
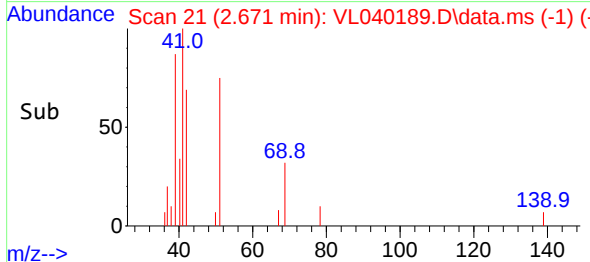
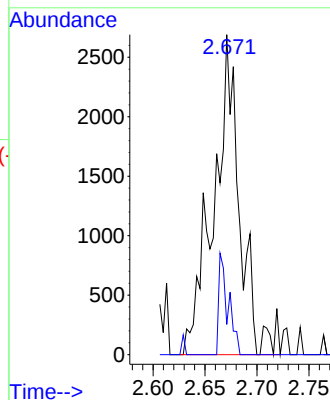
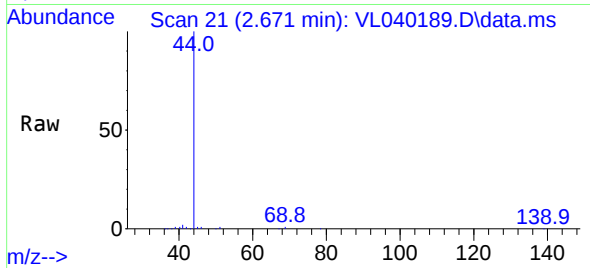
Time-->



#3
Chlorodifluoromethane
Concen: 0.041 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

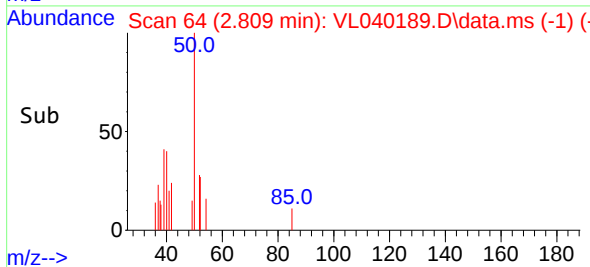
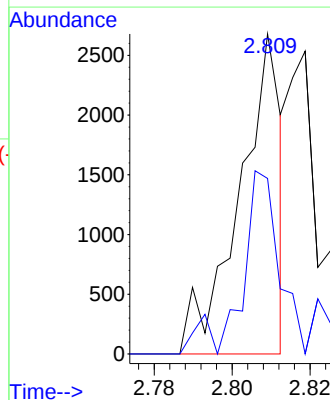
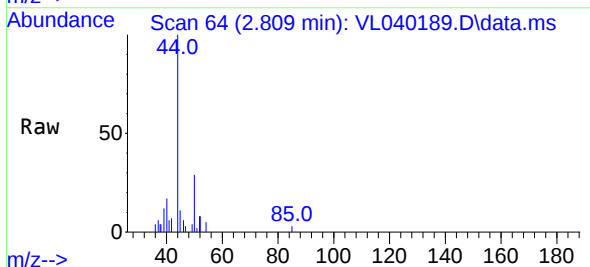
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

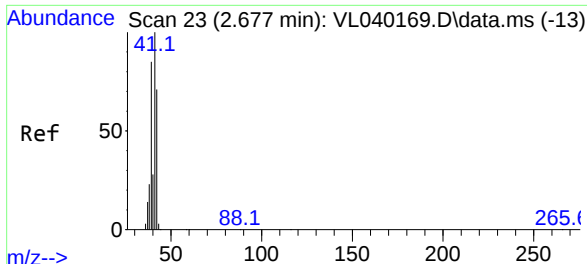
Tgt Ion: 51 Resp: 4700
Ion Ratio Lower Upper
51 100
67 11.3 15.4 23.2#



#4
Chloromethane
Concen: 0.028 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 50 Resp: 1983
Ion Ratio Lower Upper
50 100
52 54.9 28.3 42.5#

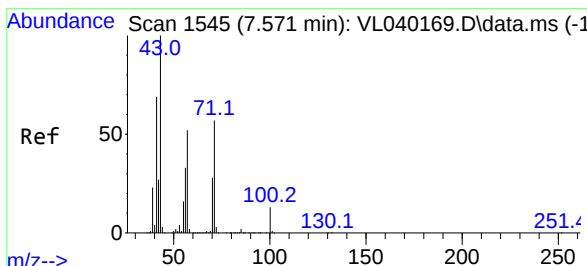
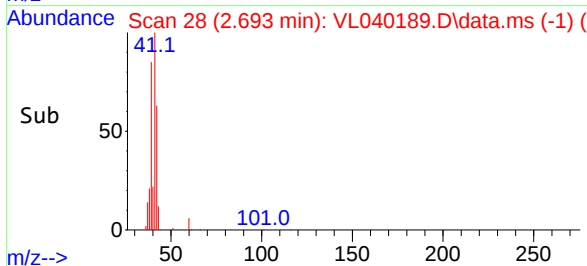
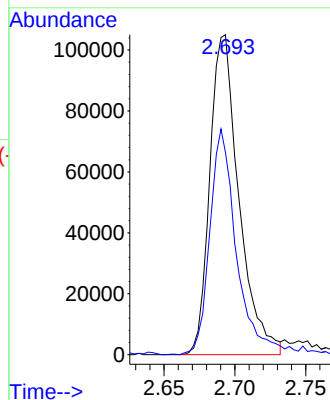
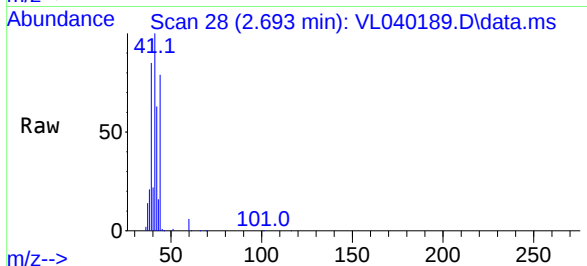




#9
Propene
Concen: 3.245 ppbv
RT: 2.693 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

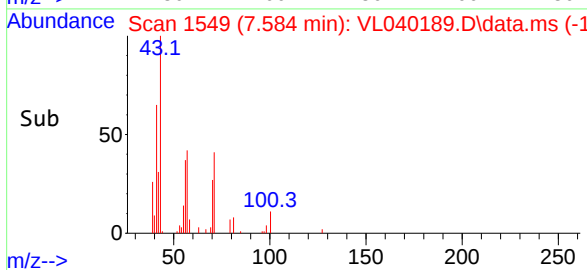
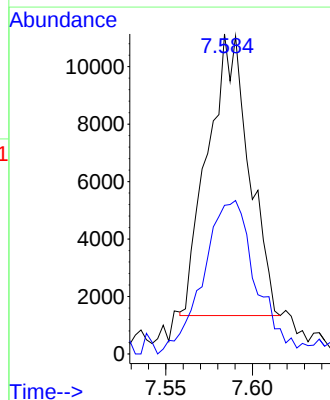
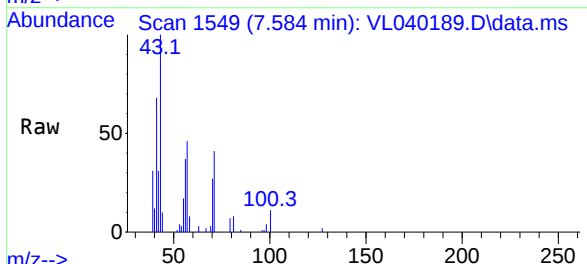
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

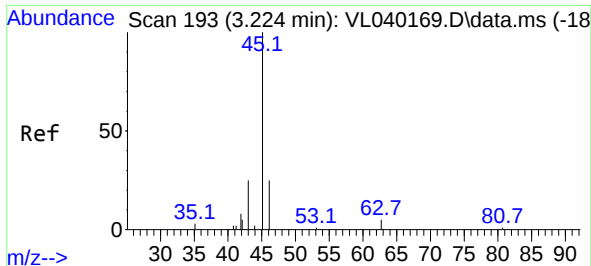
Tgt Ion: 41 Resp: 150197
Ion Ratio Lower Upper
41 100
42 66.0 56.9 85.3



#10
Heptane
Concen: 0.147 ppbv
RT: 7.584 min Scan# 1549
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 43 Resp: 16214
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.2#

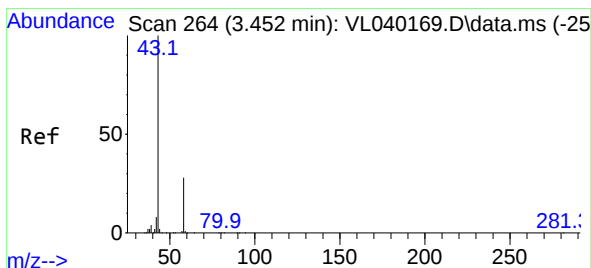
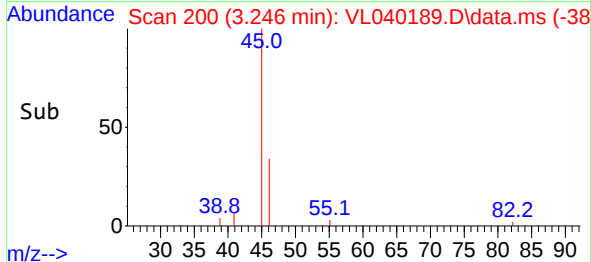
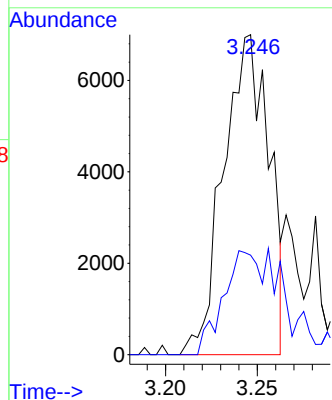
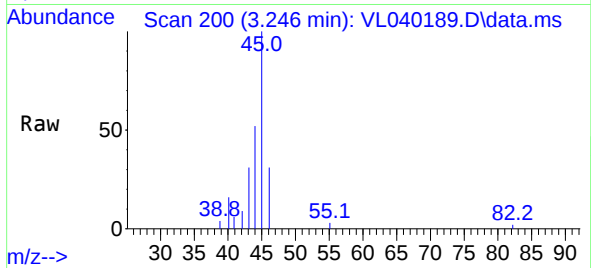




#13
Ethanol
Concen: 2.818 ppbv
RT: 3.246 min Scan# 20
Delta R.T. 0.022 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

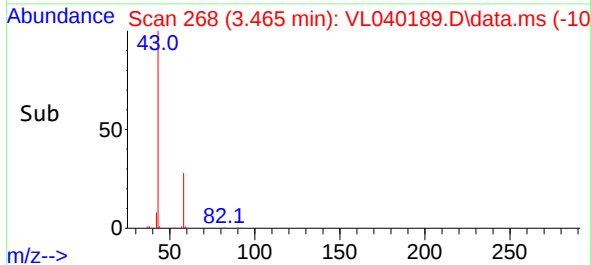
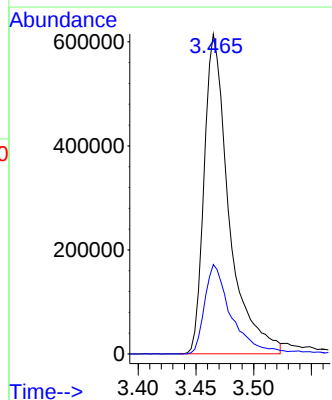
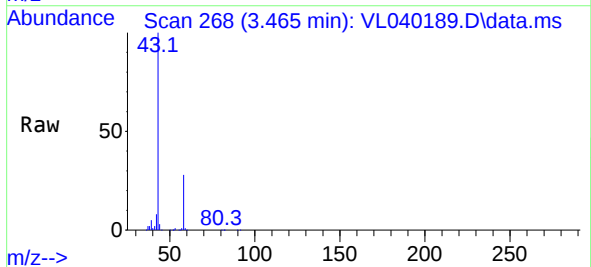
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

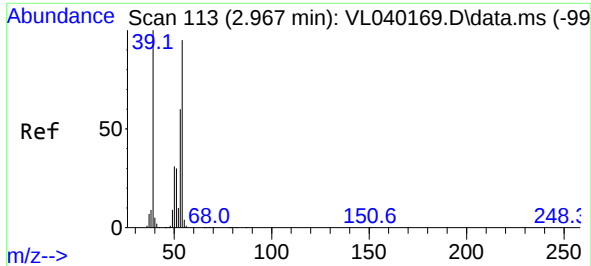
Tgt Ion: 45 Resp: 12008
Ion Ratio Lower Upper
45 100
46 0.0 13.3 53.1#



#15
Acetone
Concen: 8.049 ppbv
RT: 3.465 min Scan# 268
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 43 Resp: 921087
Ion Ratio Lower Upper
43 100
58 31.5 22.4 33.6

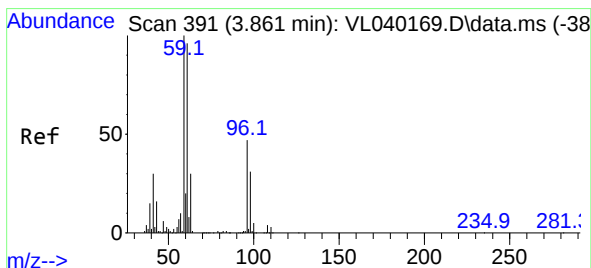
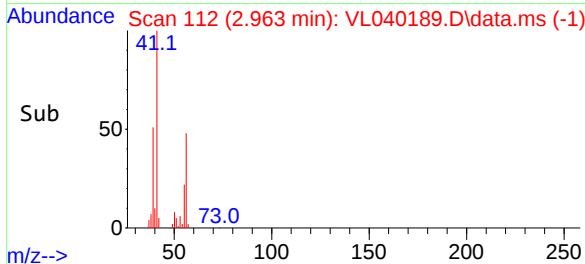
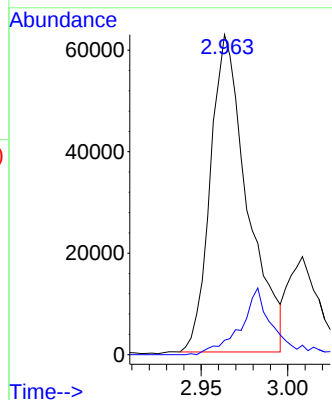
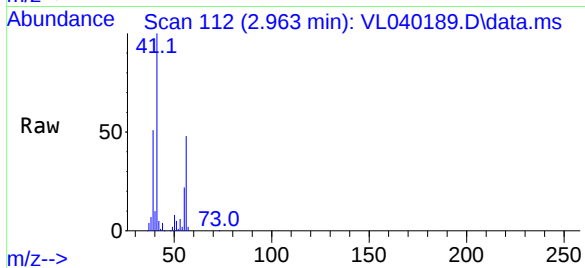




#16
1,3-Butadiene
Concen: 1.782 ppbv
RT: 2.963 min Scan# 113
Delta R.T. -0.003 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

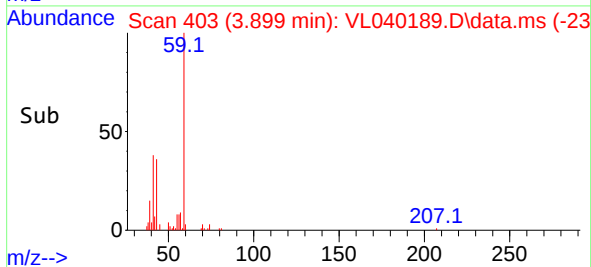
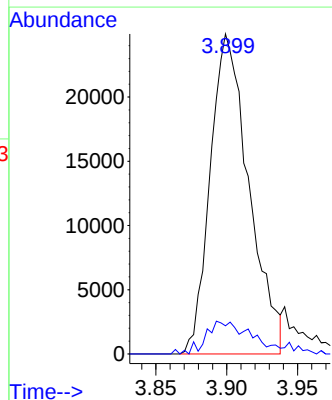
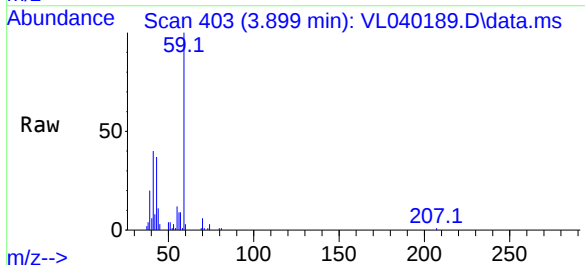
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

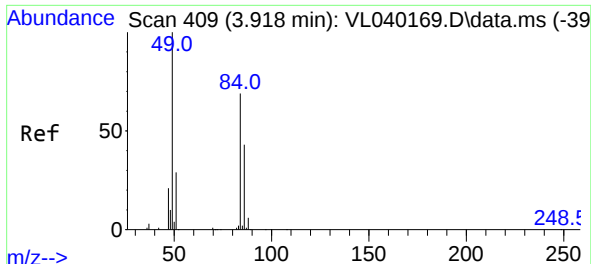
Tgt Ion: 39 Resp: 93127
Ion Ratio Lower Upper
39 100
54 18.7 66.7 100.1#



#17
tert-Butyl alcohol
Concen: 0.453 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.038 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 59 Resp: 47321
Ion Ratio Lower Upper
59 100
57 13.2 8.5 12.7#



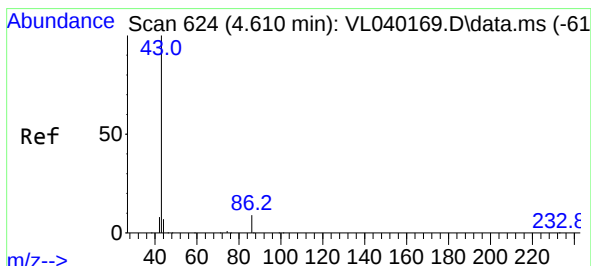
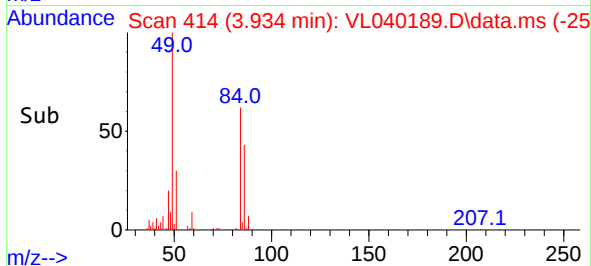
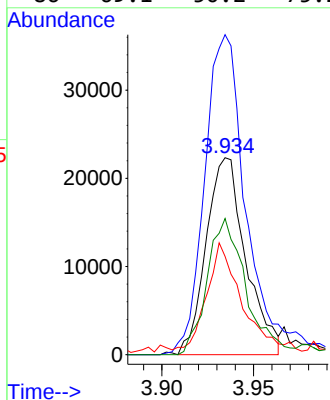
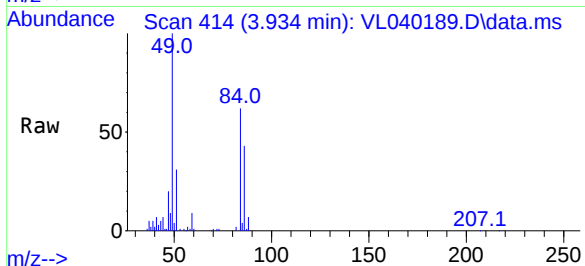


#20
Methylene Chloride
Concen: 0.564 ppbv
RT: 3.934 min Scan# 414
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

Tgt Ion: 84 Resp: 33614

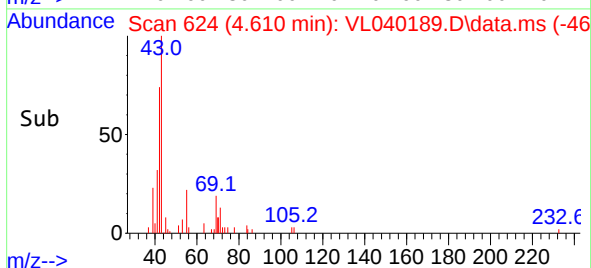
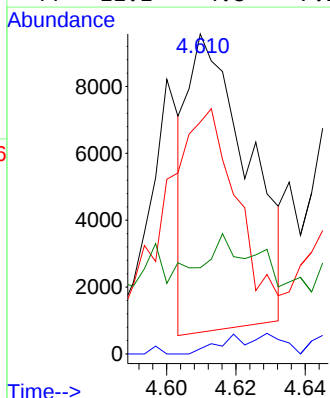
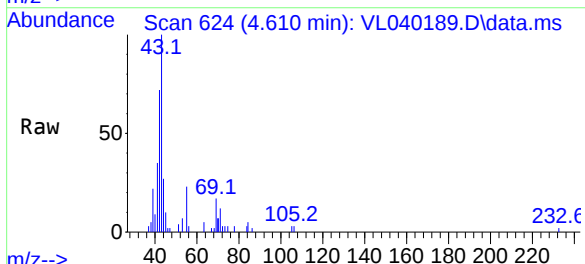
Ion	Ratio	Lower	Upper
84	100		
49	156.5	115.5	173.3
51	46.1	33.1	49.7
86	69.1	50.2	75.2

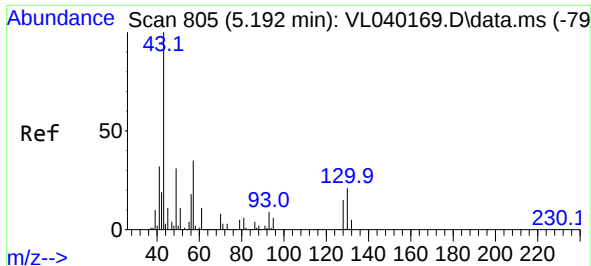


#23
Vinyl Acetate
Concen: 0.308 ppbv
RT: 4.610 min Scan# 624
Delta R.T. -0.000 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 43 Resp: 10689

Ion	Ratio	Lower	Upper
43	100		
86	3.1	5.6	8.4#
42	100.7	7.6	11.4#
44	11.1	4.8	7.2#

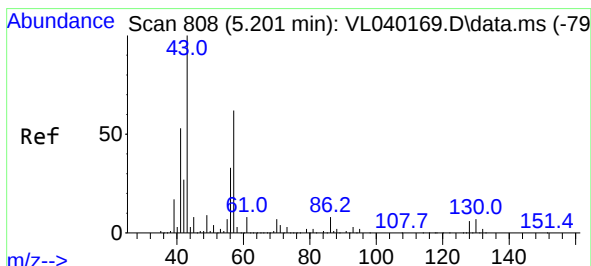
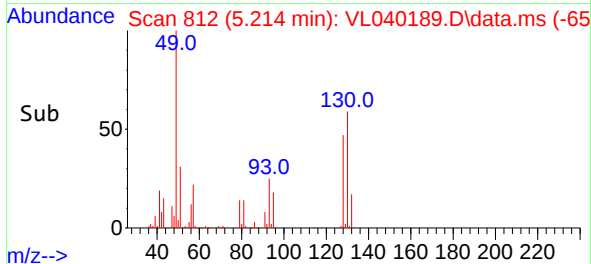
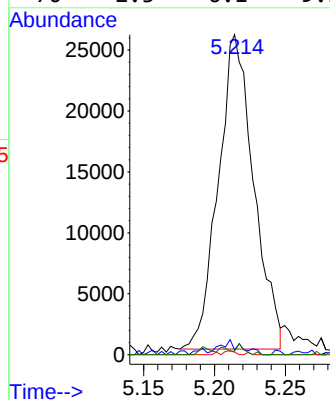
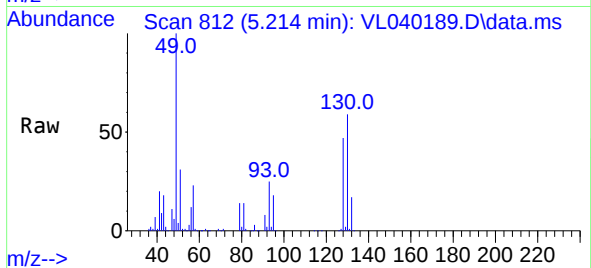




#25
Ethyl Acetate
Concen: 0.211 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.022 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

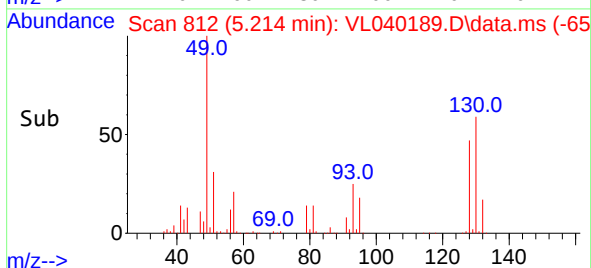
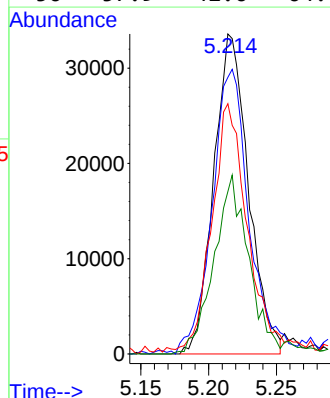
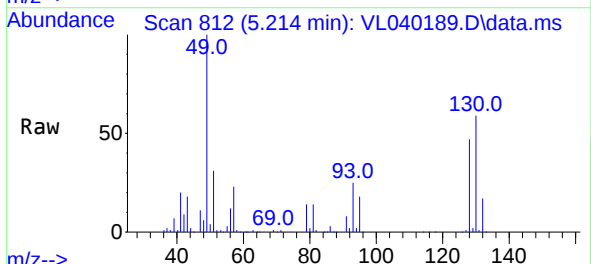
Instrument :
MSVOA_L
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SVP-05DL

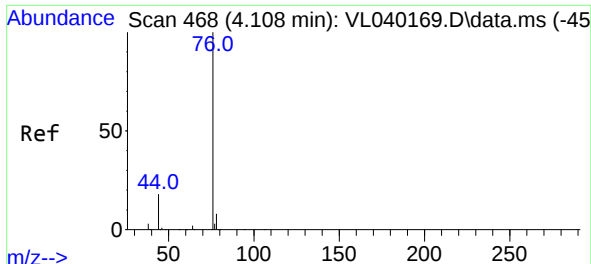
Tgt Ion:	43	Resp:	44904
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.3	12.5#
61	0.5	8.4	12.6#
70	2.3	6.1	9.1#



#26
Hexane
Concen: 0.656 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion:	57	Resp:	59868
Ion	Ratio	Lower	Upper
57	100		
41	95.4	74.3	111.5
43	83.1	193.0	289.4#
56	57.9	42.6	64.0





#27

Carbon Disulfide

Concen: 0.066 ppbv

RT: 4.127 min Scan# 41

Delta R.T. 0.019 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

Instrument :

MSVOA_L

ClientSampleId :

SVP-05DL

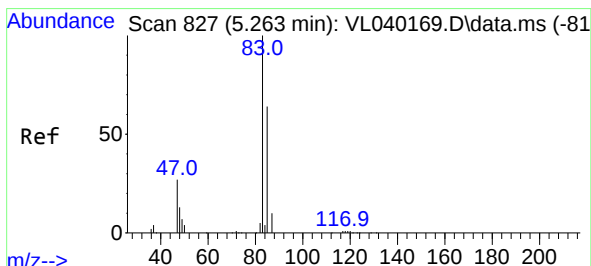
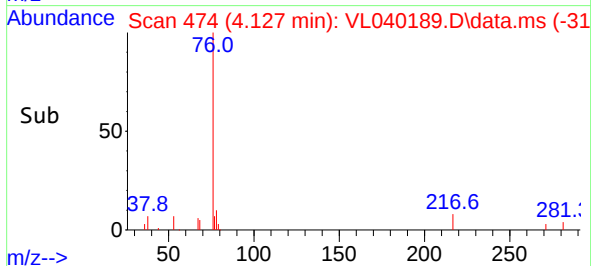
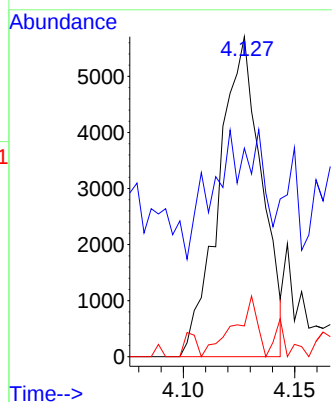
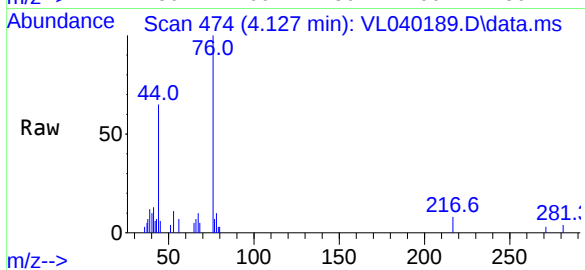
Tgt Ion: 76 Resp: 7593

Ion Ratio Lower Upper

76 100

44 43.6 15.3 22.9#

78 19.0 7.7 11.5#



#29

Chloroform

Concen: 0.024 ppbv

RT: 5.282 min Scan# 833

Delta R.T. 0.019 min

Lab File: VL040189.D

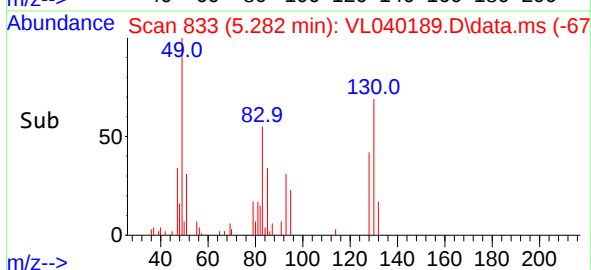
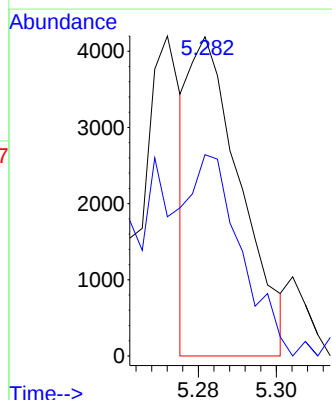
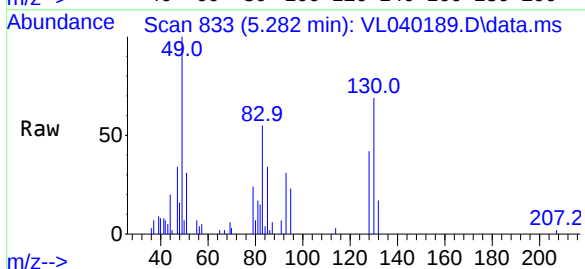
Acq: 16 Feb 2023 22:19

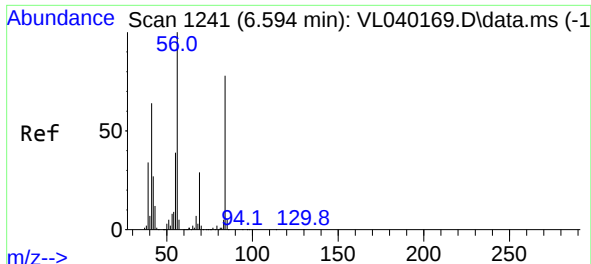
Tgt Ion: 83 Resp: 3838

Ion Ratio Lower Upper

83 100

85 70.9 51.5 77.3

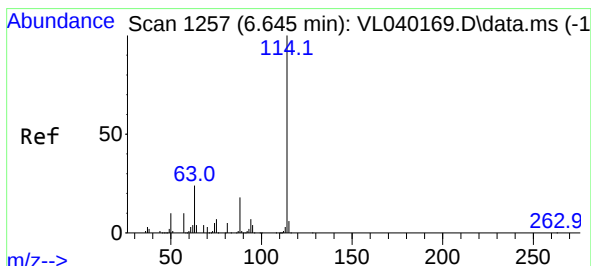
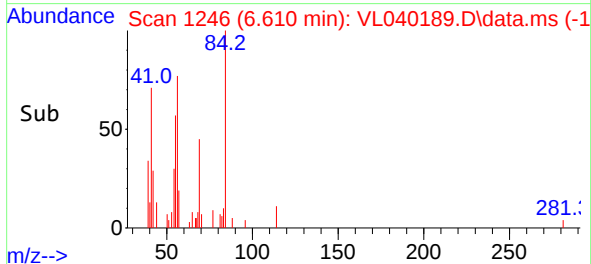
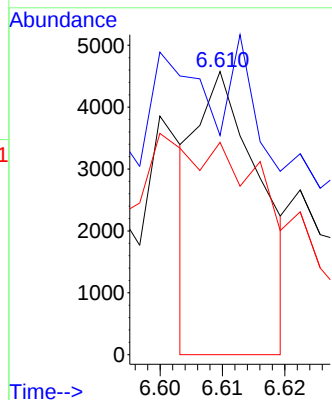
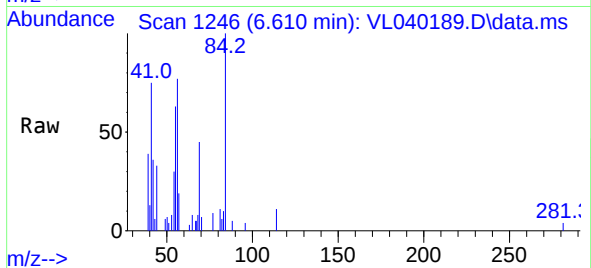




#30
Cyclohexane
Concen: 0.046 ppbv
RT: 6.610 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

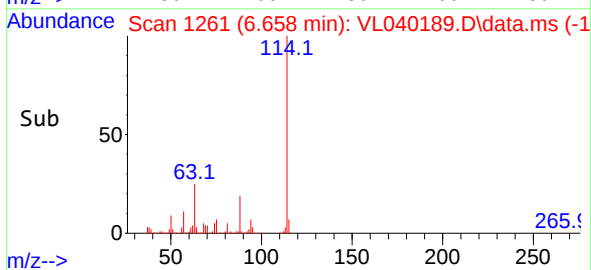
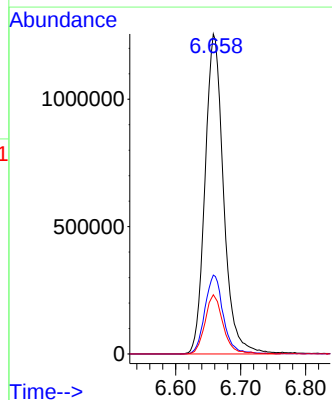
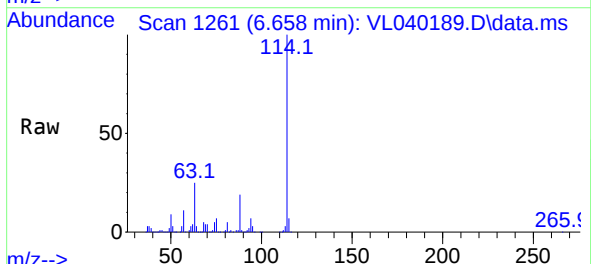
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

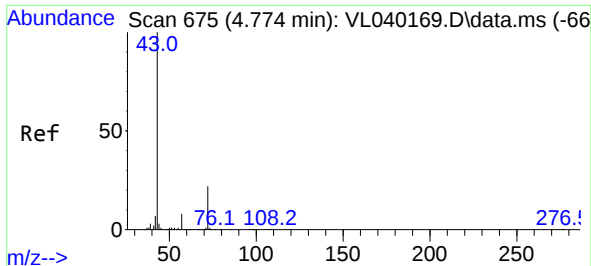
Tgt Ion: 84 Resp: 3263
Ion Ratio Lower Upper
84 100
56 0.0 109.9 164.9#
41 0.0 67.8 101.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 114 Resp: 2496646
Ion Ratio Lower Upper
114 100
63 24.7 20.4 30.6
88 18.2 14.3 21.5

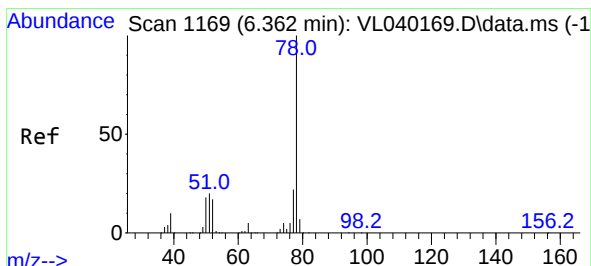
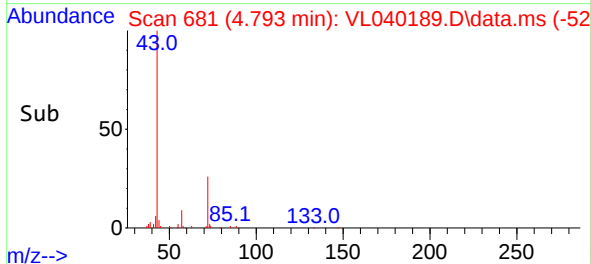
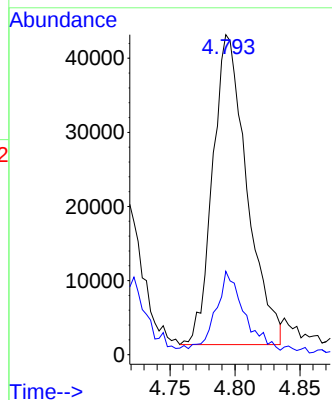
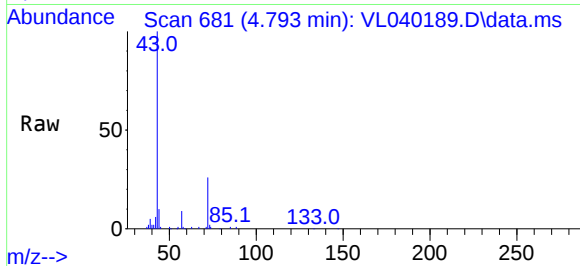




#34
2-Butanone
Concen: 0.622 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

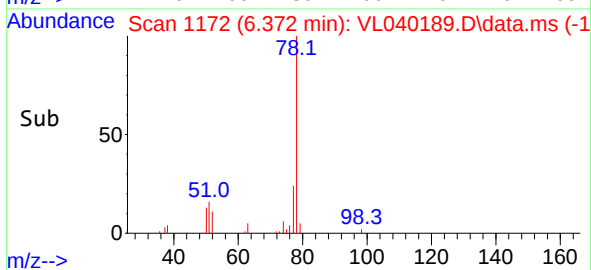
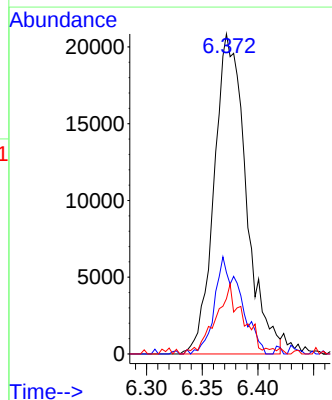
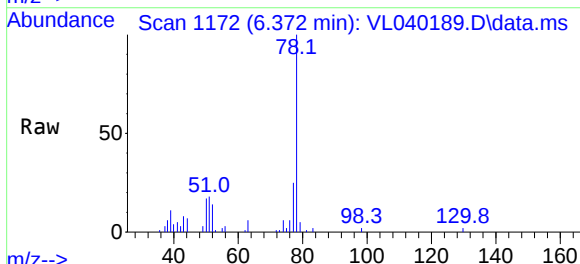
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

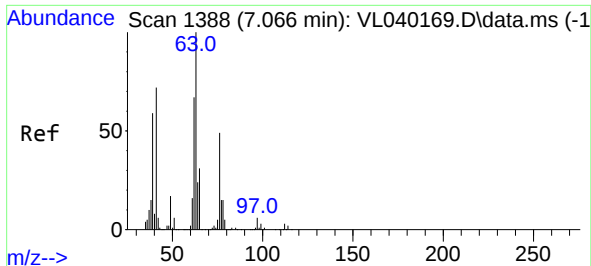
Tgt Ion: 43 Resp: 76577
Ion Ratio Lower Upper
43 100
72 26.0 17.8 26.8



#36
Benzene
Concen: 0.213 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.010 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 78 Resp: 41366
Ion Ratio Lower Upper
78 100
77 25.5 17.5 26.3
50 17.3 14.6 22.0





#39

1,2-Dichloropropane

Concen: 8.093 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

Instrument :

MSVOA_L

ClientSampleId :

SVP-05DL

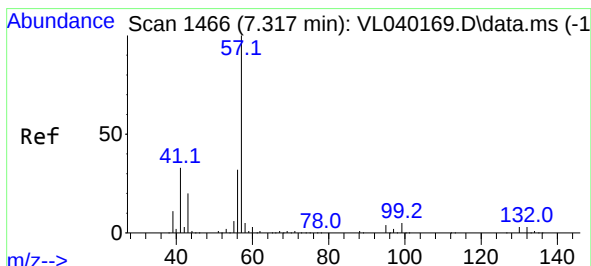
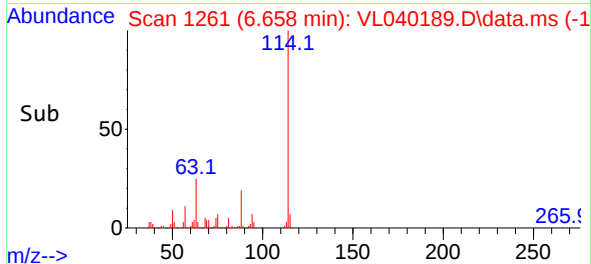
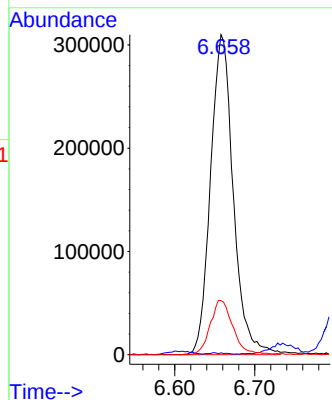
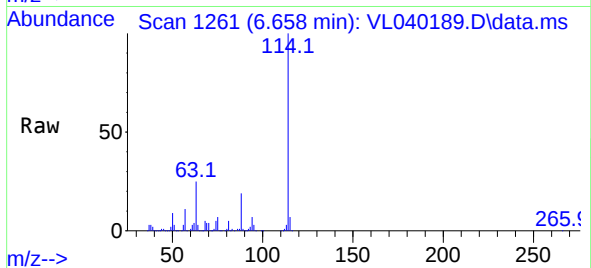
Tgt Ion: 63 Resp: 611697

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 16.9 54.0 81.0#



#44

2,2,4-Trimethylpentane

Concen: 2.254 ppbv

RT: 7.333 min Scan# 1471

Delta R.T. 0.016 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

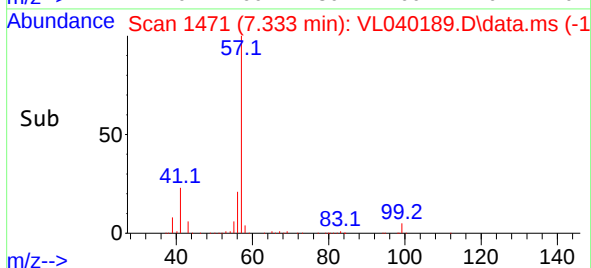
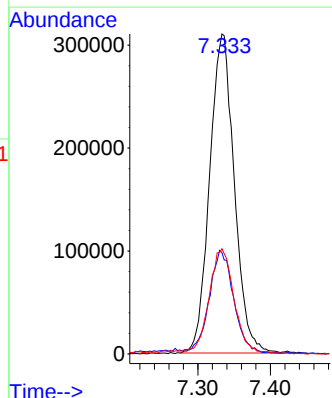
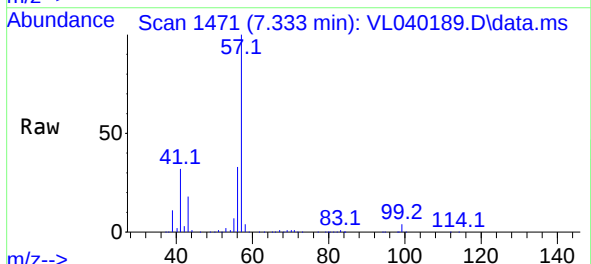
Tgt Ion: 57 Resp: 730949

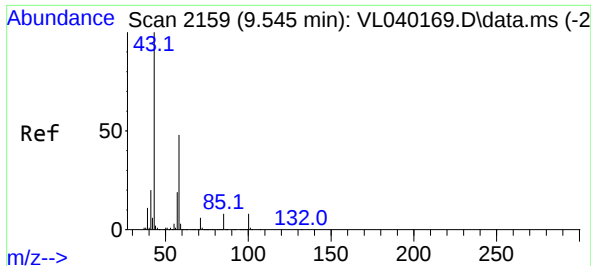
Ion Ratio Lower Upper

57 100

41 34.7 26.2 39.4

56 35.0 24.9 37.3

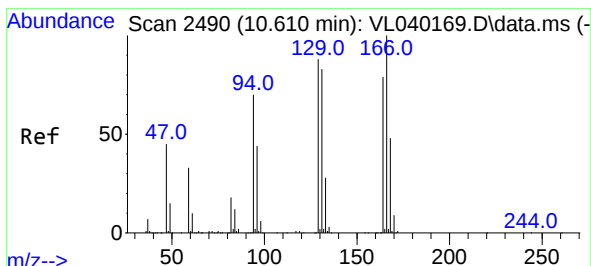
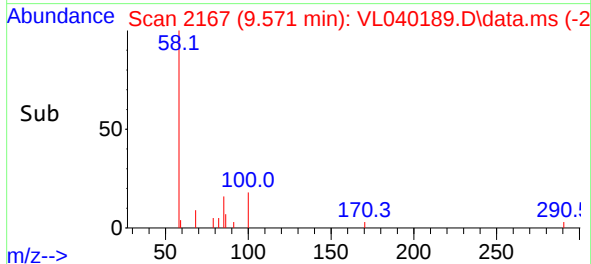
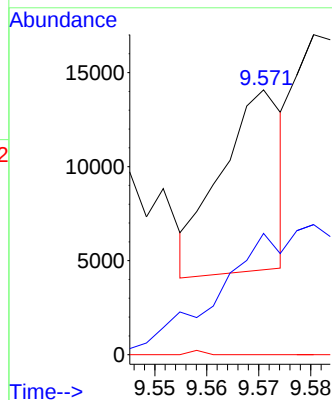
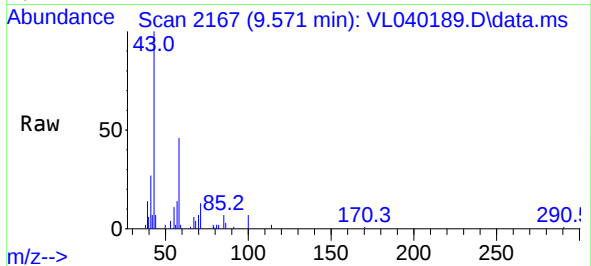




#51
2-Hexanone
Concen: 0.054 ppbv
RT: 9.571 min Scan# 2159
Delta R.T. 0.026 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

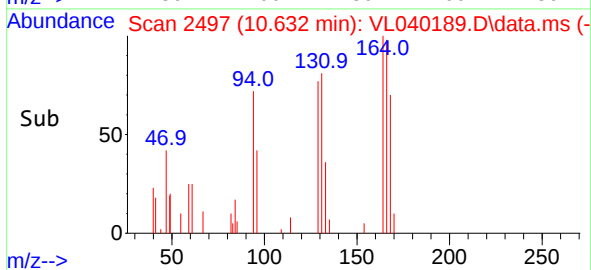
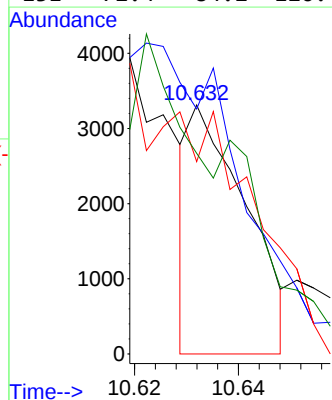
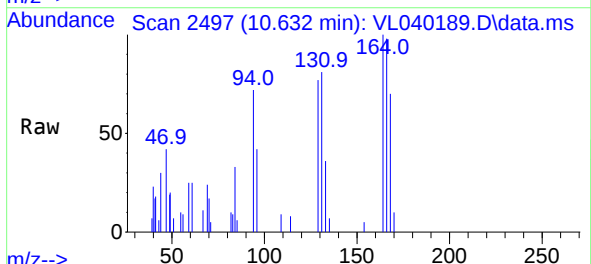
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

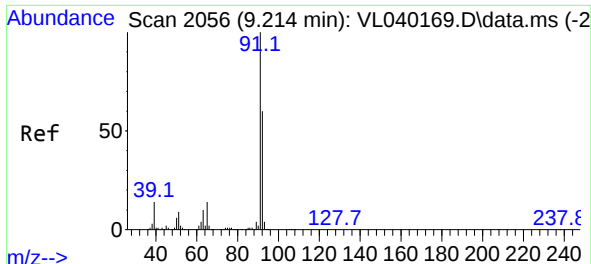
Tgt Ion: 43 Resp: 7935
Ion Ratio Lower Upper
43 100
58 0.0 39.1 58.7#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.041 ppbv
RT: 10.632 min Scan# 2497
Delta R.T. 0.022 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 164 Resp: 2500
Ion Ratio Lower Upper
164 100
166 82.3 101.5 152.3#
129 46.8 89.0 133.4#
131 72.4 84.2 126.4#

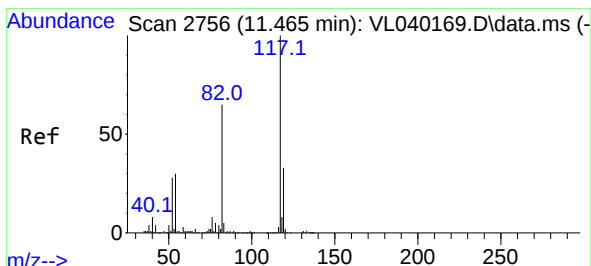
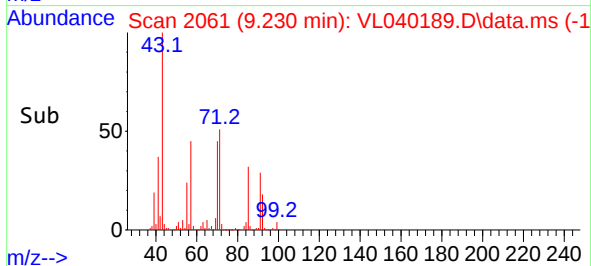
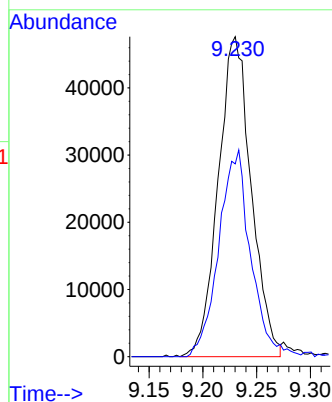
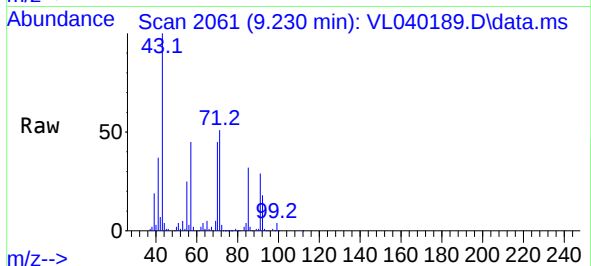




#53
Toluene
Concen: 0.488 ppbv
RT: 9.230 min Scan# 2056
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

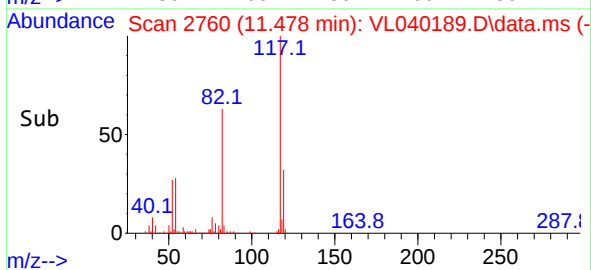
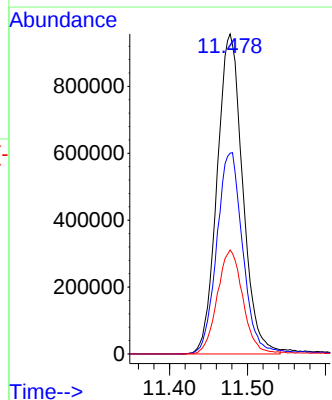
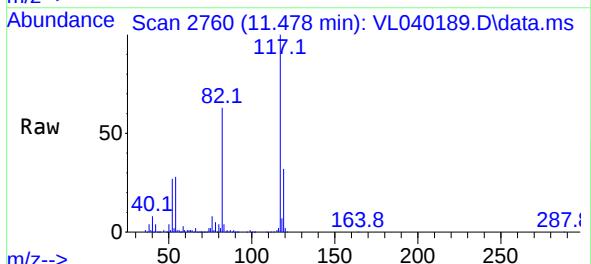
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

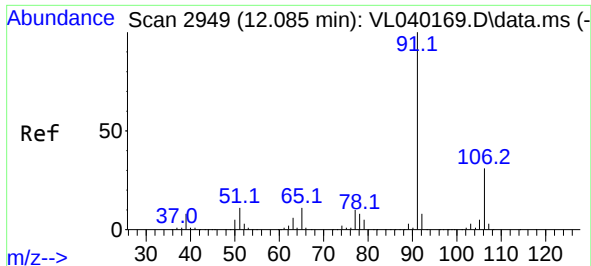
Tgt Ion: 91 Resp: 101580
Ion Ratio Lower Upper
91 100
92 63.0 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 117 Resp: 2180039
Ion Ratio Lower Upper
117 100
82 65.2 53.3 79.9
119 33.1 24.6 37.0





#58

Ethyl Benzene

Concen: 0.082 ppbv

RT: 12.095 min Scan# 2949

Delta R.T. 0.010 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

Instrument :

MSVOA_L

ClientSampleId :

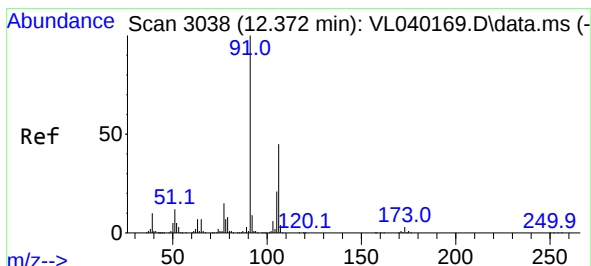
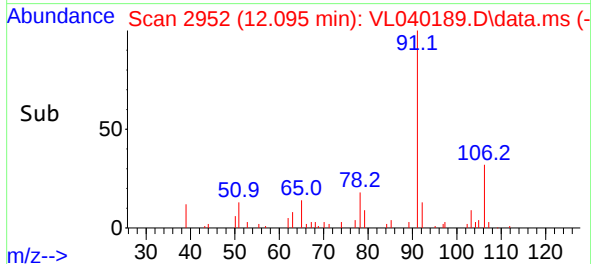
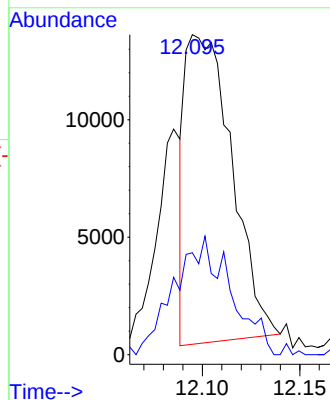
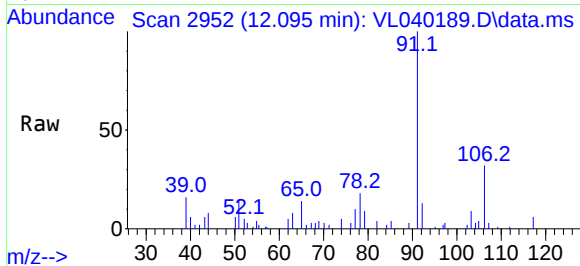
SVP-05DL

Tgt Ion: 91 Resp: 21741

Ion Ratio Lower Upper

91 100

106 34.1 24.9 37.3



#59

m/p-Xylene

Concen: 0.076 ppbv

RT: 12.384 min Scan# 3042

Delta R.T. 0.013 min

Lab File: VL040189.D

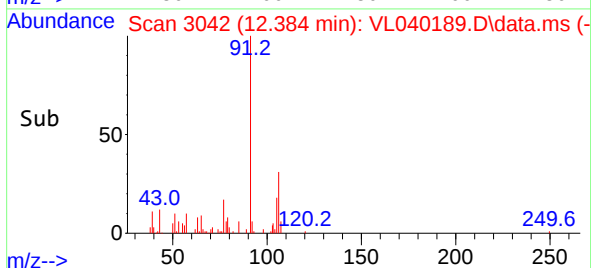
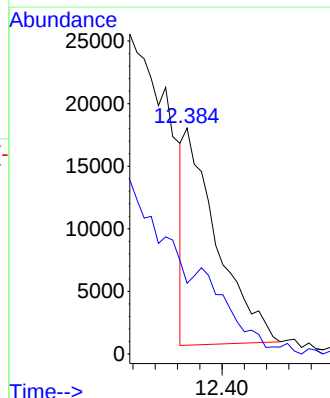
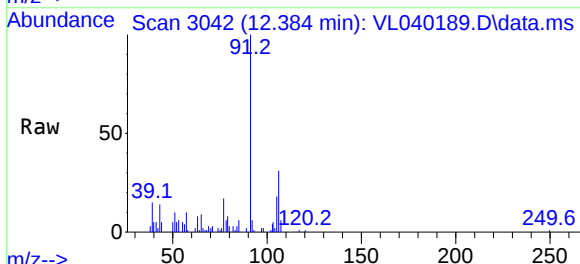
Acq: 16 Feb 2023 22:19

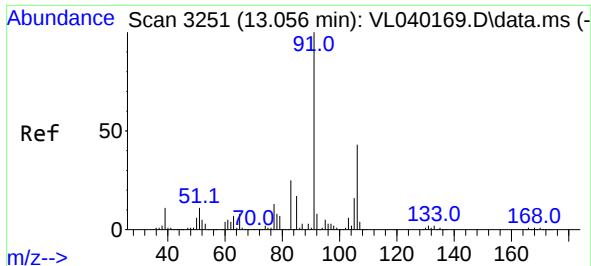
Tgt Ion: 91 Resp: 17786

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#

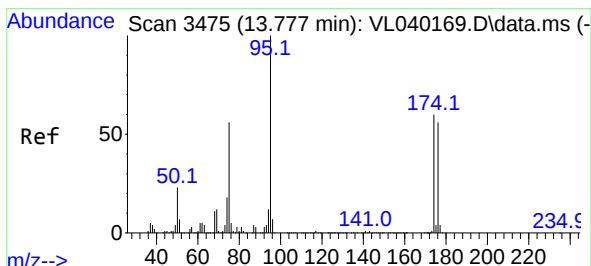
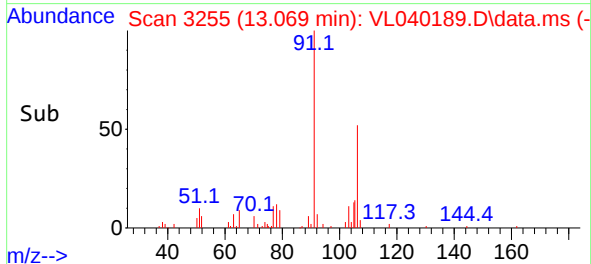
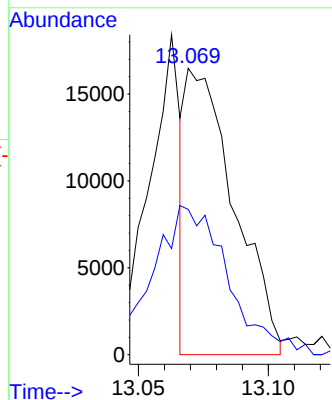
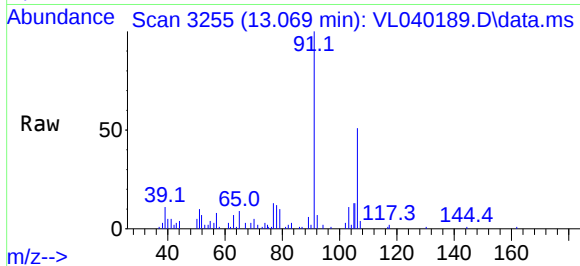




#60
o-Xylene
Concen: 0.095 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

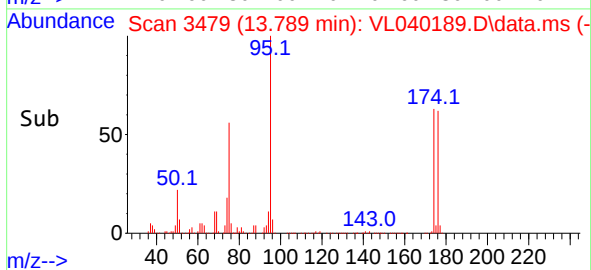
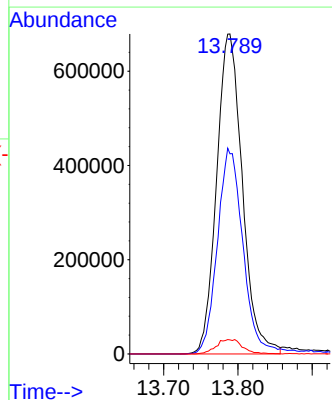
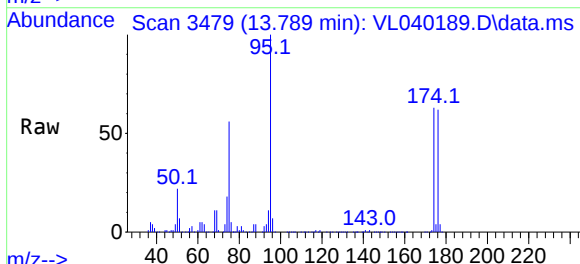
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

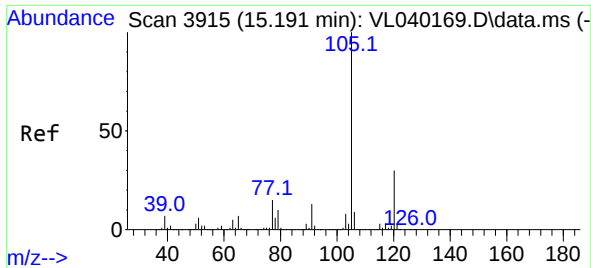
Tgt Ion: 91 Resp: 21489
Ion Ratio Lower Upper
91 100
106 83.6 21.6 65.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.136 ppbv
RT: 13.789 min Scan# 3479
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 95 Resp: 1637788
Ion Ratio Lower Upper
95 100
174 65.8 48.2 72.2
175 4.7 3.4 5.2

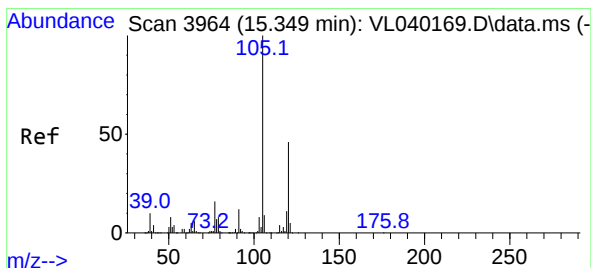
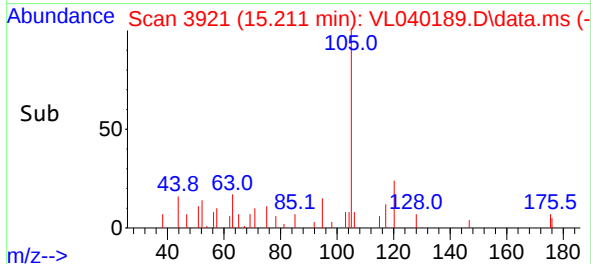
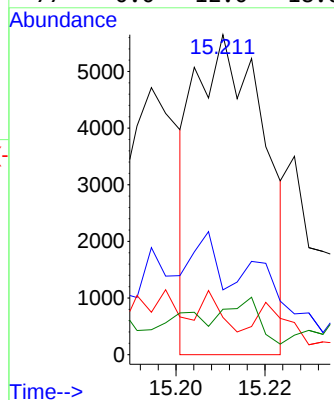
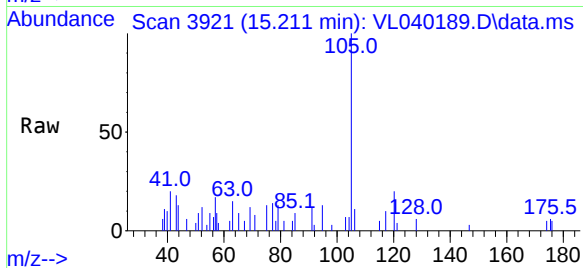




#72
4-Ethyltoluene
Concen: 0.025 ppbv
RT: 15.211 min Scan# 3915
Delta R.T. 0.019 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

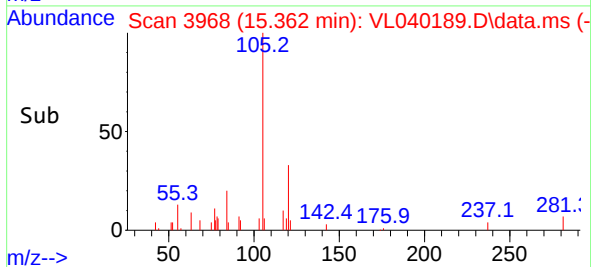
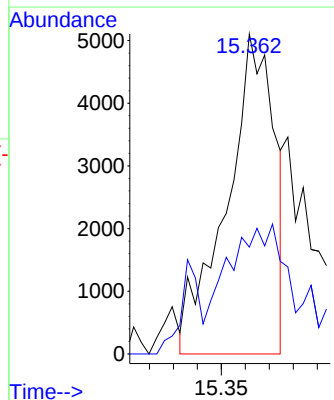
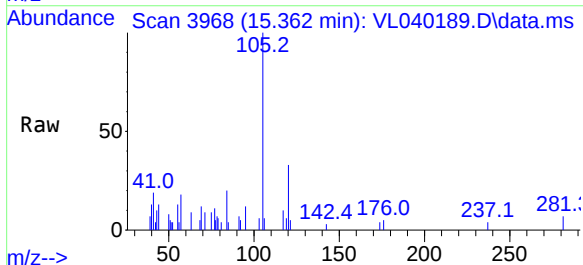
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

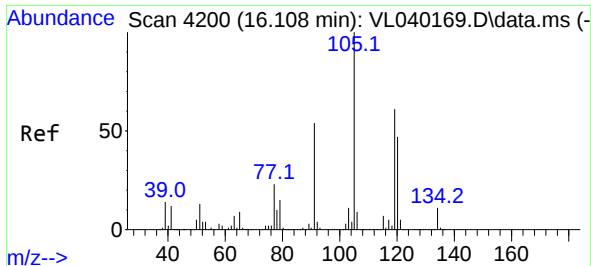
Tgt Ion:105 Resp: 6126
Ion Ratio Lower Upper
105 100
120 74.6 23.2 34.8#
91 0.0 11.3 16.9#
77 0.0 12.0 18.0#



#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 15.362 min Scan# 3968
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

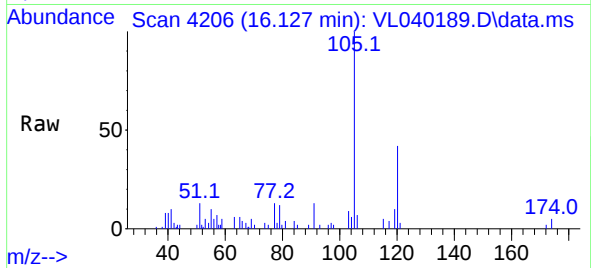
Tgt Ion:105 Resp: 7091
Ion Ratio Lower Upper
105 100
120 26.2 36.8 55.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.039 ppbv
 RT: 16.127 min Scan# 41
 Delta R.T. 0.019 min
 Lab File: VL040189.D
 Acq: 16 Feb 2023 22:19

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL



Tgt Ion:105 Resp: 9862
 Ion Ratio Lower Upper
 105 100
 120 33.5 37.9 56.9#
 91 11.6 43.7 65.5#
 77 8.5 18.3 27.5#

