

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061523\
 Data File : VL040477.D
 Acq On : 15 Jun 2023 21:42
 Operator : SY/MD
 Sample : 03250-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-04DL

Quant Time: Jun 16 05:41:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jun 06 06:22:12 2023
 Response via : Initial Calibration

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

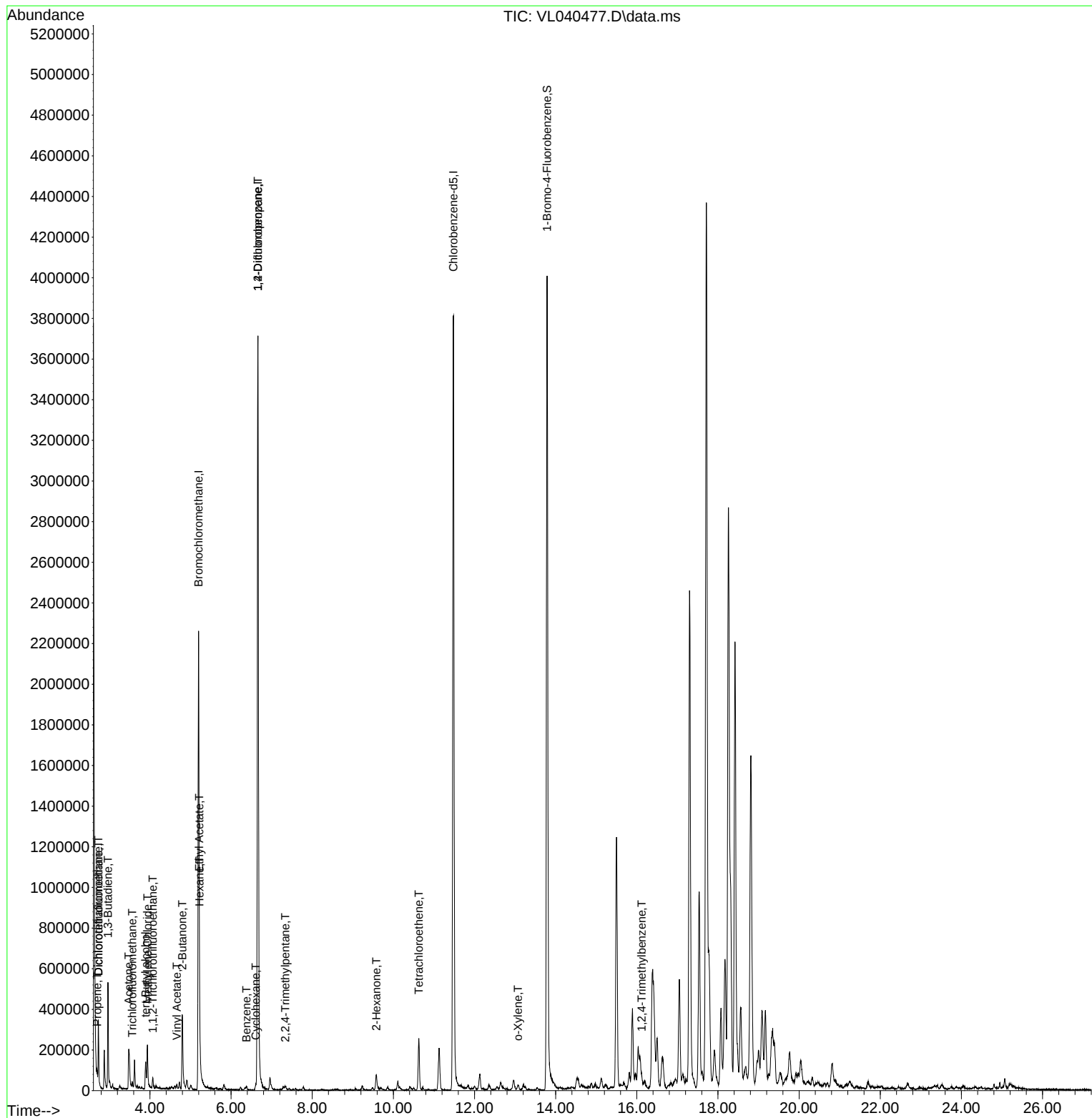
Internal Standards						
1) Bromochloromethane	5.198	49	1122013	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2935653	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2613771	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	2019382	9.361	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	220551	0.903	ppbv	99
8) Dichlorotetrafluoroethane	2.729	85	220551	1.144	ppbv #	18
9) Propene	2.700	41	21317	0.376	ppbv	98
11) Trichlorofluoromethane	3.565	101	16150	0.081	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.070	101	16030	0.115	ppbv #	80
15) Acetone	3.478	43	192350	1.421	ppbv #	5
16) 1,3-Butadiene	2.967	39	131954	2.003	ppbv #	13
17) tert-Butyl alcohol	3.896	59	120005	1.079	ppbv	100
20) Methylene Chloride	3.941	84	67768	1.173	ppbv	87
23) Vinyl Acetate	4.664	43	5445	0.041	ppbv #	45
25) Ethyl Acetate	5.217	43	48509	0.198	ppbv #	78
26) Hexane	5.221	57	76516	0.659	ppbv #	43
30) Cyclohexane	6.610	84	5964	0.064	ppbv #	14
34) 2-Butanone	4.796	43	466006	3.292	ppbv	99
36) Benzene	6.378	78	10571	0.045	ppbv	97
39) 1,2-Dichloropropane	6.661	63	711138	7.900	ppbv #	22
44) 2,2,4-Trimethylpentane	7.336	57	12348	0.032	ppbv #	53
51) 2-Hexanone	9.581	43	69025	0.524	ppbv #	91
52) Tetrachloroethene	10.629	164	61550	0.839	ppbv	95
60) o-Xylene	13.072	91	10963	0.040	ppbv	82
74) 1,2,4-Trimethylbenzene	16.121	105	22313	0.069	ppbv #	66

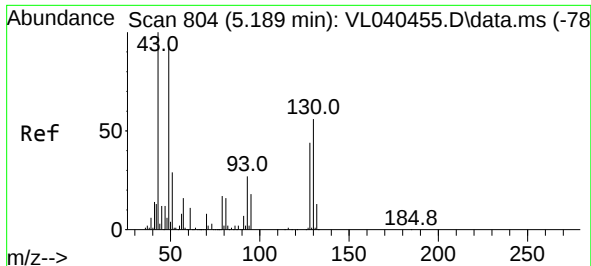
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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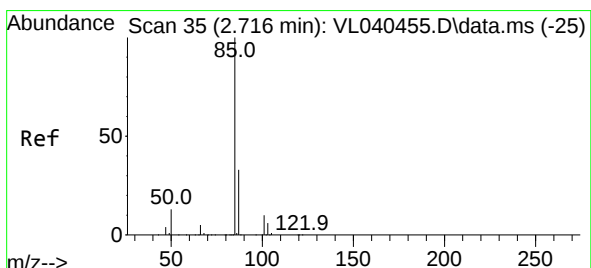
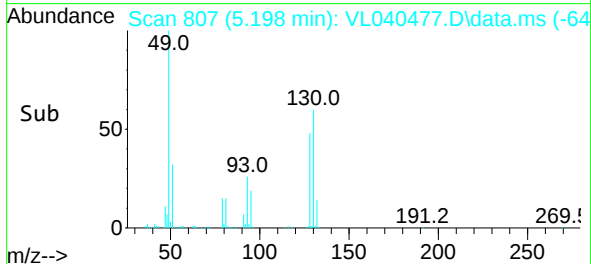
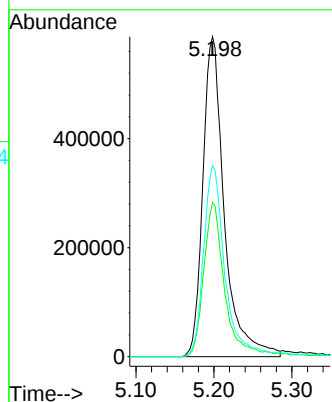
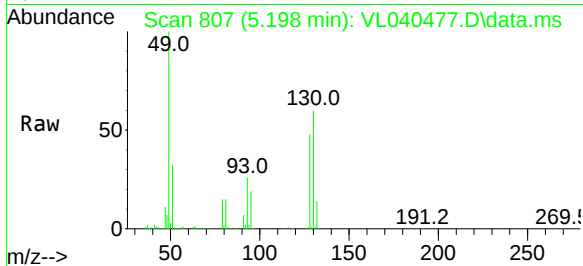




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. 0.009 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

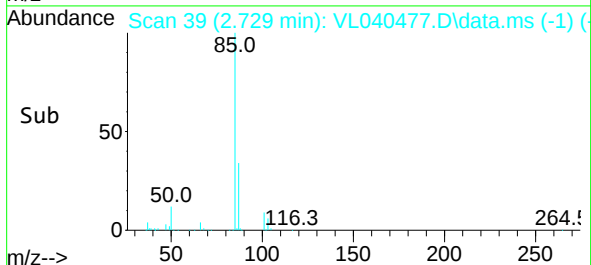
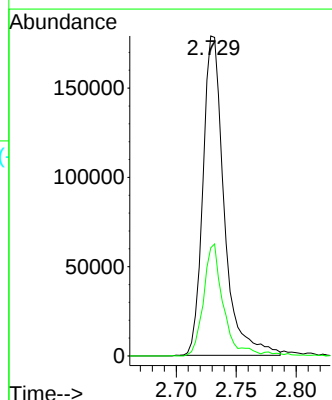
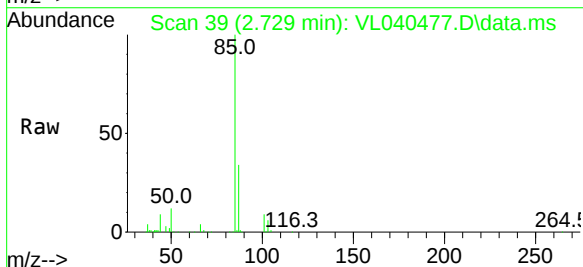
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 SVP-04DL

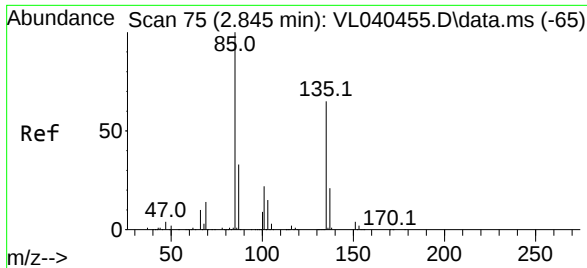
Tgt Ion: 49 Resp: 1122013
 Ion Ratio Lower Upper
 49 100
 128 48.0 24.7 74.1
 130 61.5 31.4 94.2



#2
 Dichlorodifluoromethane
 Concen: 0.903 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.013 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

Tgt Ion: 85 Resp: 220551
 Ion Ratio Lower Upper
 85 100
 87 33.9 26.6 39.8

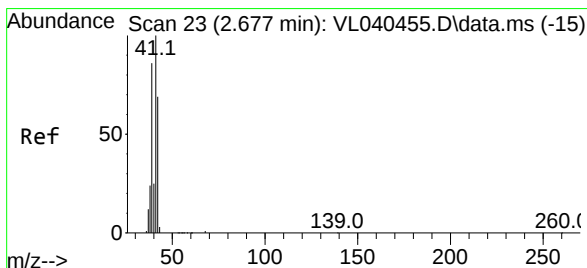
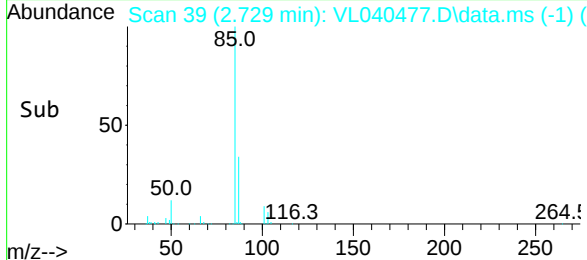
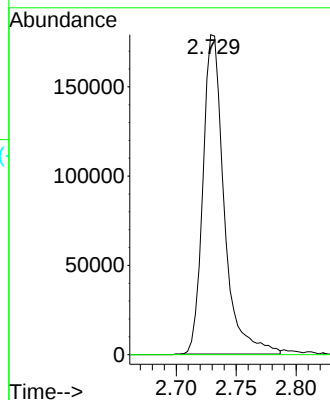
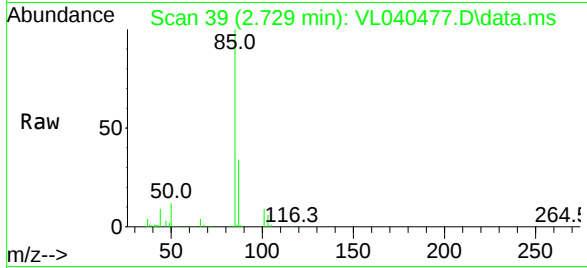




#8
 Dichlorotetrafluoroethane
 Concen: 1.144 ppbv
 RT: 2.729 min Scan# 30
 Delta R.T. -0.116 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

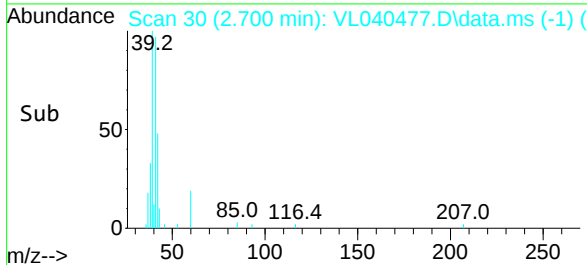
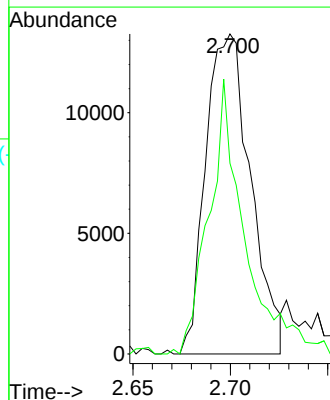
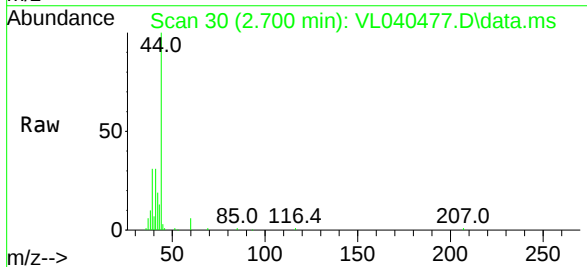
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-04DL

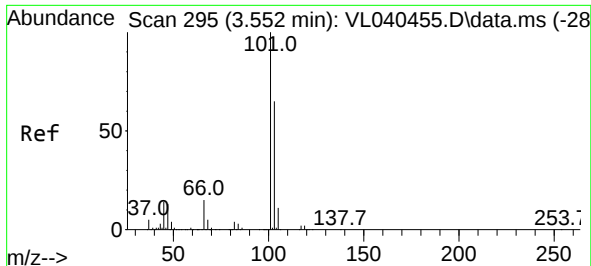
Tgt Ion: 85 Resp: 220551
 Ion Ratio Lower Upper
 85 100
 135 0.1 52.0 78.0#



#9
 Propene
 Concen: 0.376 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. 0.022 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

Tgt Ion: 41 Resp: 21317
 Ion Ratio Lower Upper
 41 100
 42 68.9 56.2 84.2

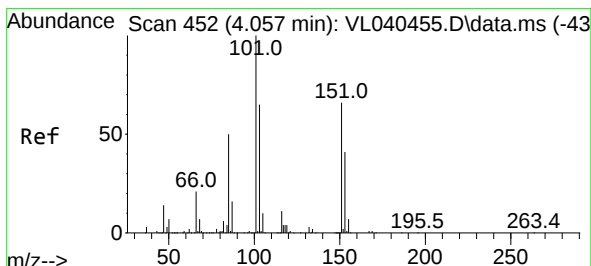
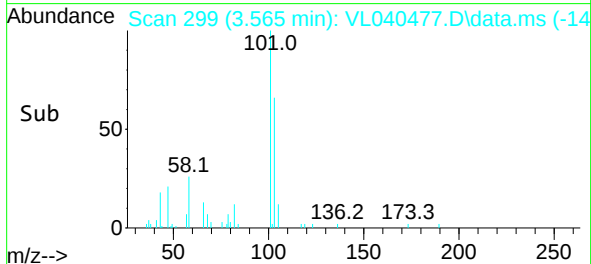
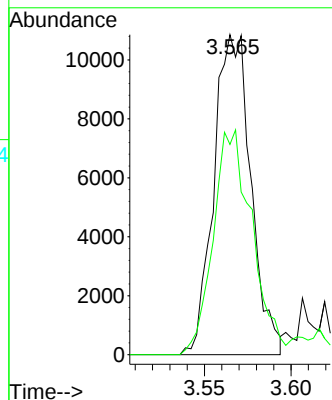
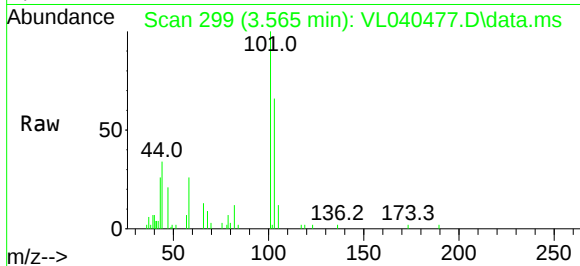




#11
 Trichlorofluoromethane
 Concen: 0.081 ppbv
 RT: 3.565 min Scan# 299
 Delta R.T. 0.013 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

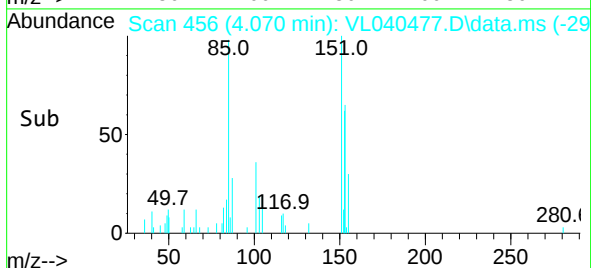
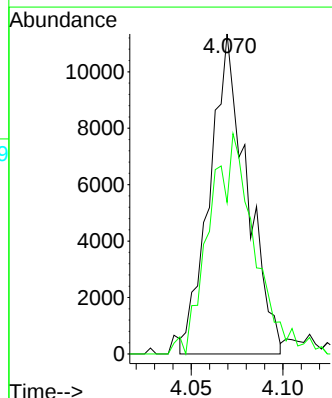
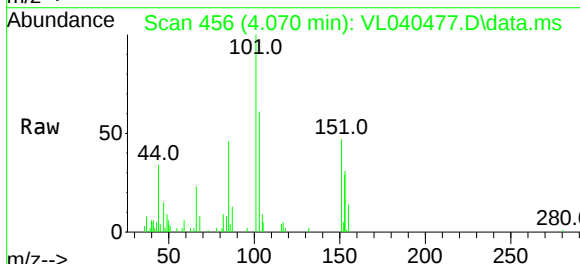
Instrument :
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 ClientSampleId :
 SVP-04DL

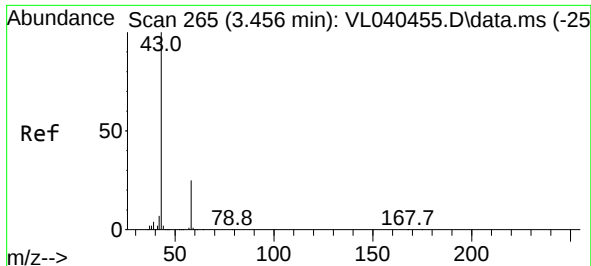
Tgt Ion:101 Resp: 16150
 Ion Ratio Lower Upper
 101 100
 103 65.7 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.115 ppbv
 RT: 4.070 min Scan# 456
 Delta R.T. 0.013 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

Tgt Ion:101 Resp: 16030
 Ion Ratio Lower Upper
 101 100
 151 84.4 54.3 81.5#





#15

Acetone

Concen: 1.421 ppbv

RT: 3.478 min Scan# 21

Delta R.T. 0.022 min

Lab File: VL040477.D

Acq: 15 Jun 2023 21:42

Instrument :

MSVOA_L

ClientSampleId :

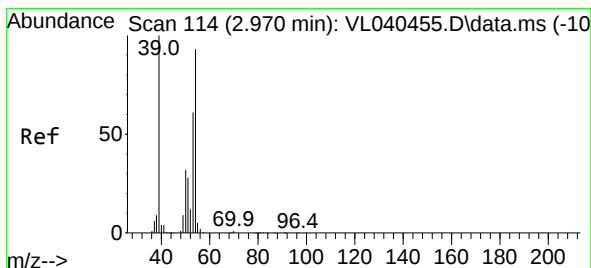
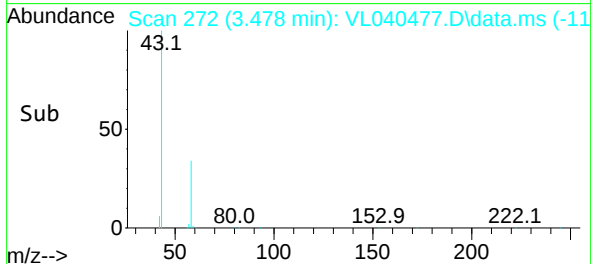
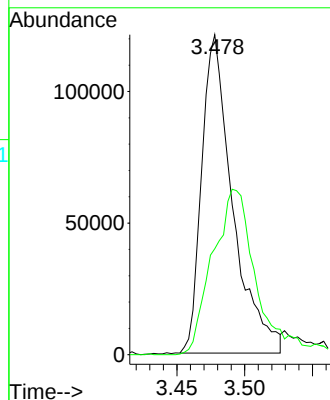
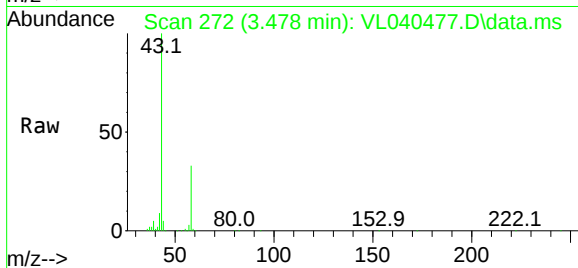
SVP-04DL

Tgt Ion: 43 Resp: 192350

Ion Ratio Lower Upper

43 100

58 76.0 21.6 32.4#



#16

1,3-Butadiene

Concen: 2.003 ppbv

RT: 2.967 min Scan# 113

Delta R.T. -0.003 min

Lab File: VL040477.D

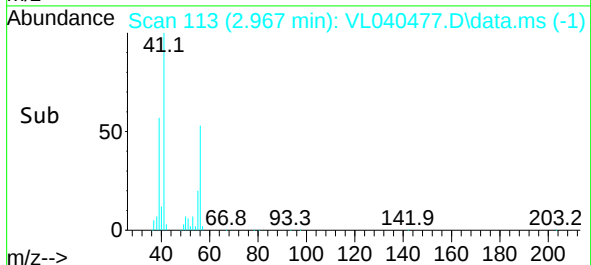
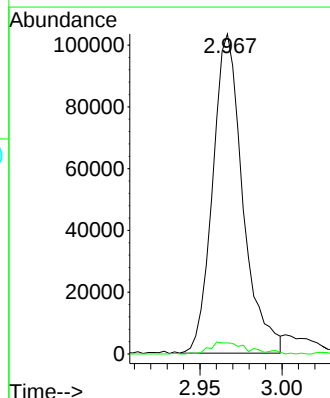
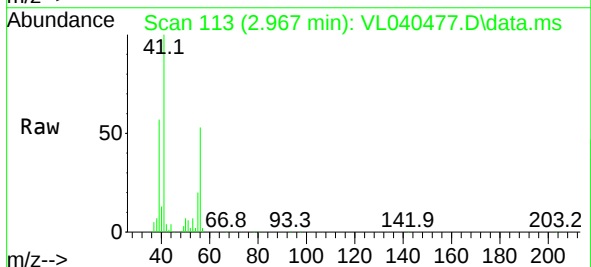
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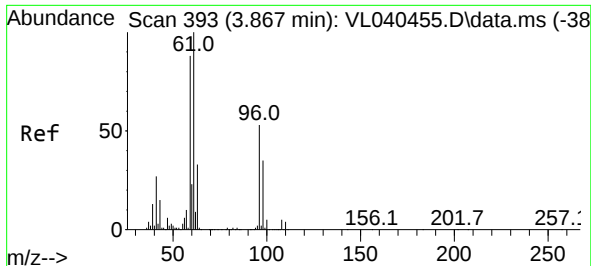
Tgt Ion: 39 Resp: 131954

Ion Ratio Lower Upper

39 100

54 4.7 66.9 100.3#

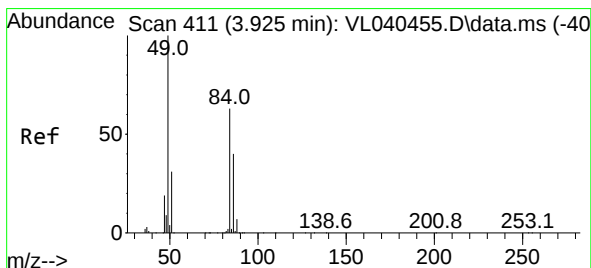
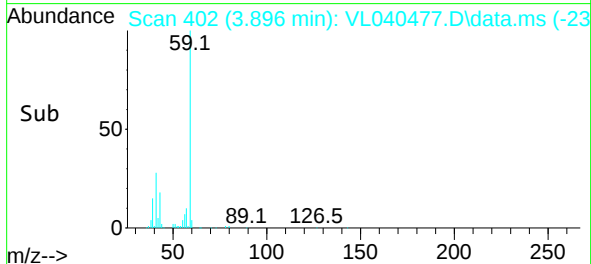
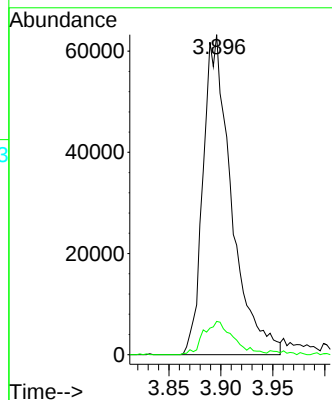
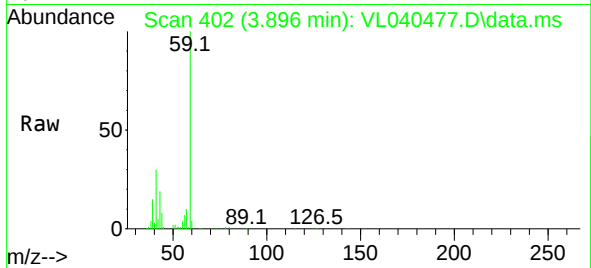




#17
tert-Butyl alcohol
Concen: 1.079 ppbv
RT: 3.896 min Scan# 410
Delta R.T. 0.029 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

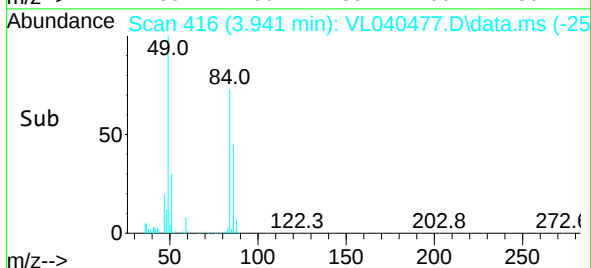
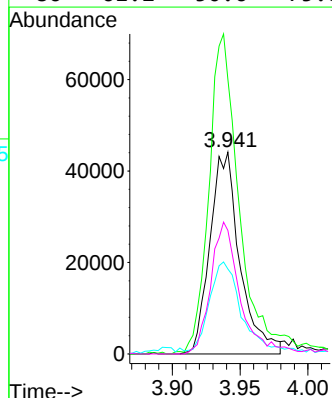
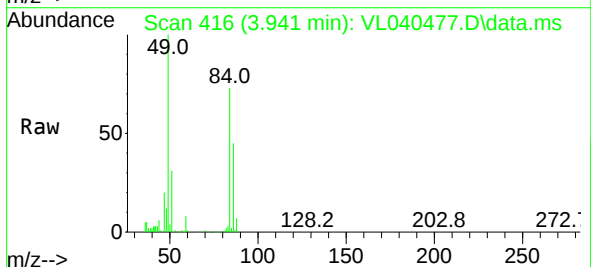
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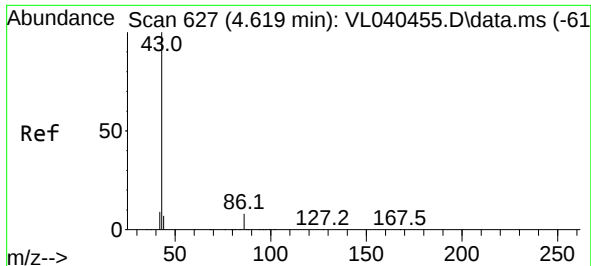
Tgt Ion: 59 Resp: 120005
Ion Ratio Lower Upper
59 100
57 10.9 8.8 13.2



#20
Methylene Chloride
Concen: 1.173 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.016 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

Tgt Ion: 84 Resp: 67768
Ion Ratio Lower Upper
84 100
49 135.0 126.2 189.2
51 39.2 38.7 58.1
86 61.2 50.6 75.8

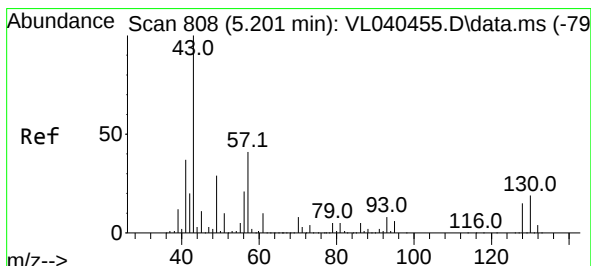
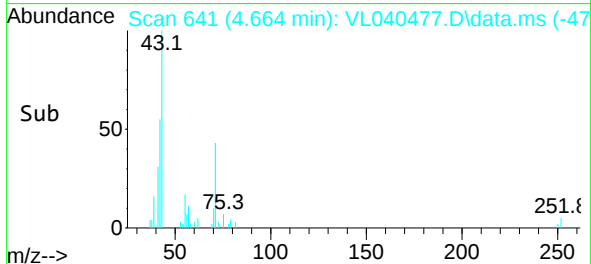
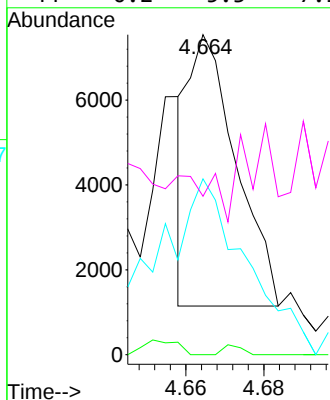
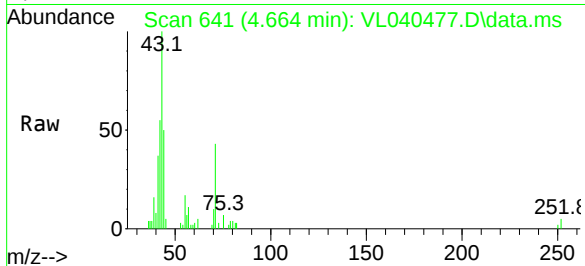




#23
 Vinyl Acetate
 Concen: 0.041 ppbv
 RT: 4.664 min Scan# 641
 Delta R.T. 0.045 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

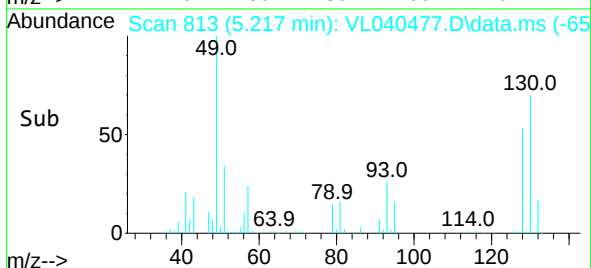
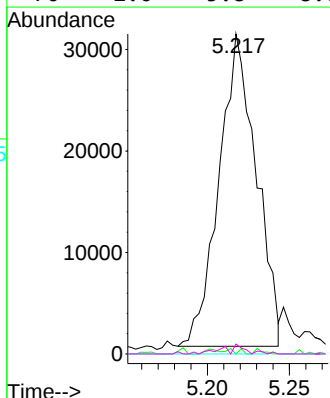
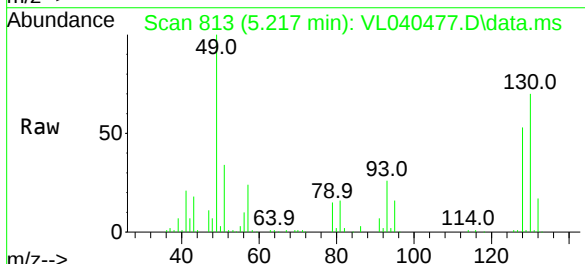
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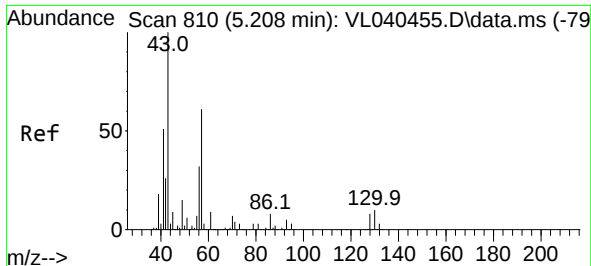
Tgt Ion:	43	Resp:	5445
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.6#
42	48.6	7.4	11.2#
44	0.2	5.3	7.9#



#25
 Ethyl Acetate
 Concen: 0.198 ppbv
 RT: 5.217 min Scan# 813
 Delta R.T. 0.016 min
 Lab File: VL040477.D
 Acq: 15 Jun 2023 21:42

Tgt Ion:	43	Resp:	48509
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.0	12.0#
61	0.1	8.1	12.1#
70	2.0	5.8	8.6#

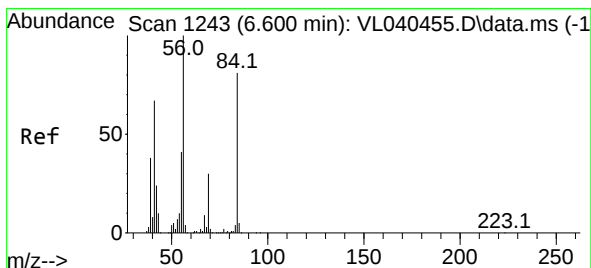
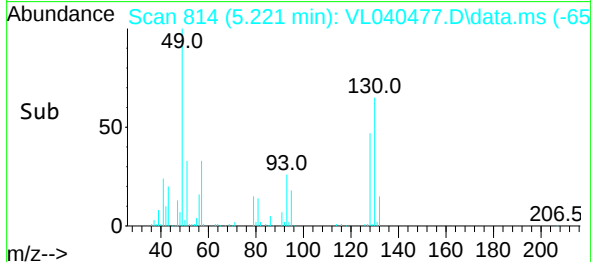
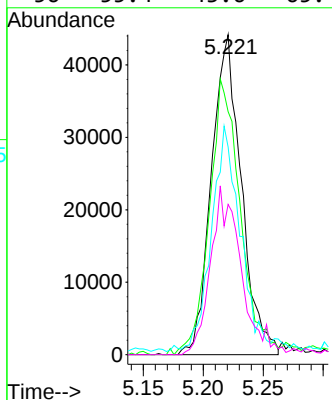
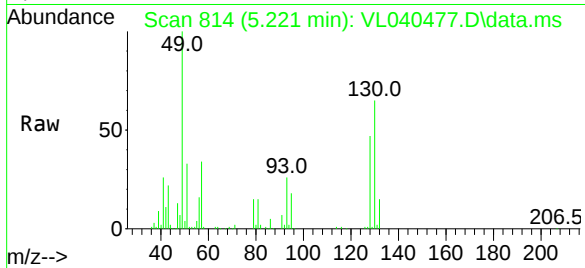




#26
Hexane
Concen: 0.659 ppbv
RT: 5.221 min Scan# 810
Delta R.T. 0.013 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

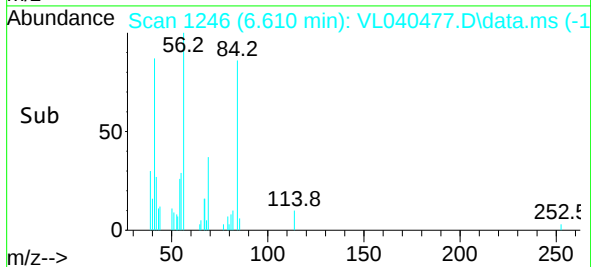
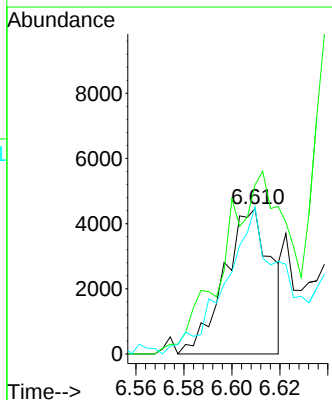
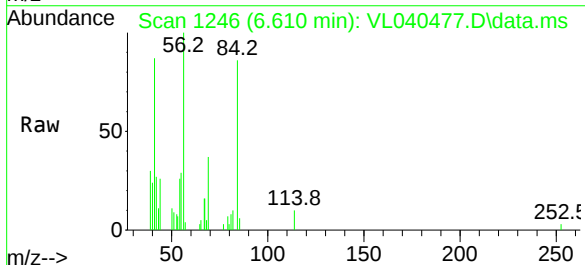
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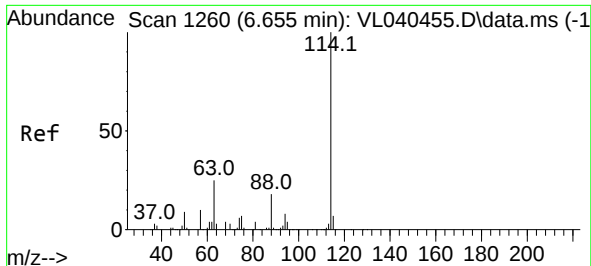
Tgt Ion: 57 Resp: 76516
Ion Ratio Lower Upper
57 100
41 93.0 73.0 109.6
43 70.3 177.5 266.3#
56 55.4 43.6 65.4



#30
Cyclohexane
Concen: 0.064 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.010 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

Tgt Ion: 84 Resp: 5964
Ion Ratio Lower Upper
84 100
56 0.0 106.0 159.0#
41 124.0 66.8 100.2#

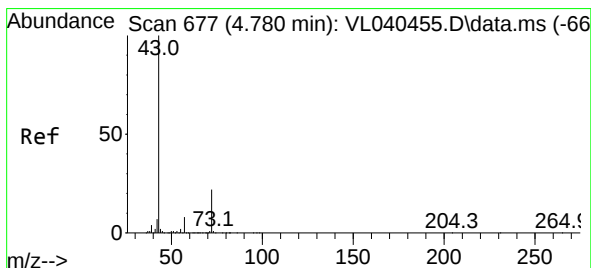
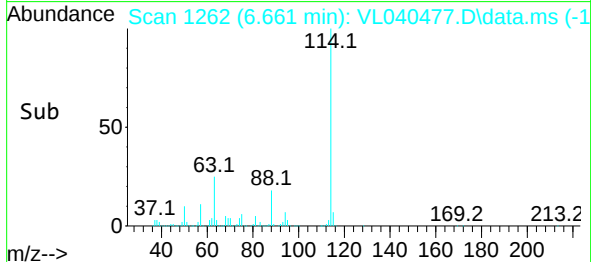
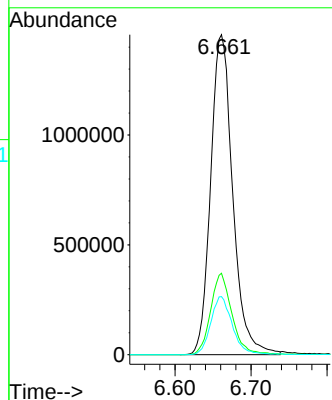
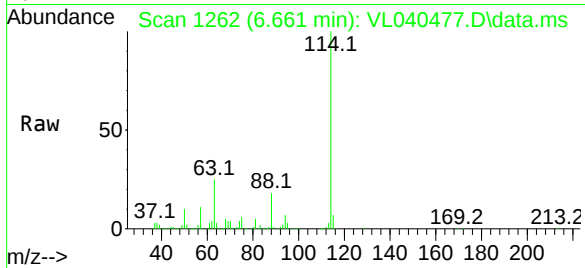




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

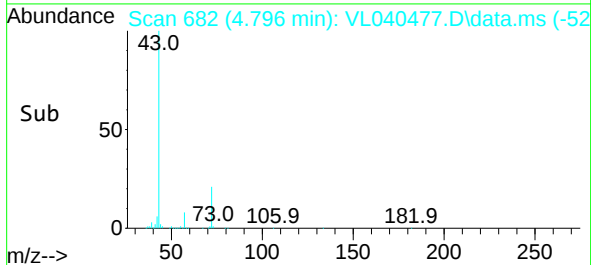
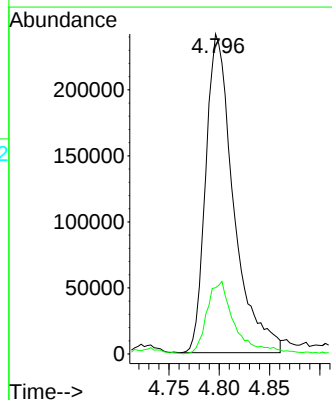
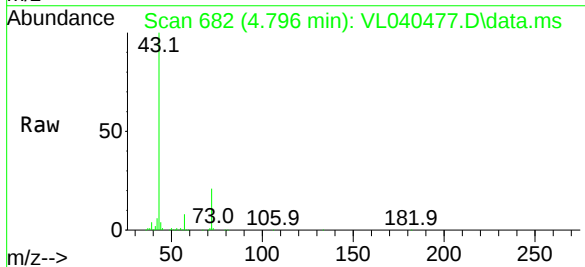
Instrument :
MSVOA_L
ClientSampleId :
SVP-04DL

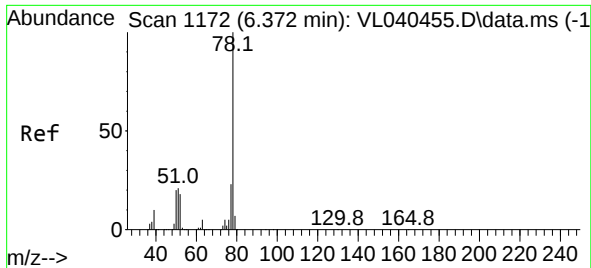
Tgt Ion:114 Resp: 2935653
Ion Ratio Lower Upper
114 100
63 24.8 21.0 31.6
88 17.8 14.5 21.7



#34
2-Butanone
Concen: 3.292 ppbv
RT: 4.796 min Scan# 682
Delta R.T. 0.016 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

Tgt Ion: 43 Resp: 466006
Ion Ratio Lower Upper
43 100
72 23.3 18.1 27.1

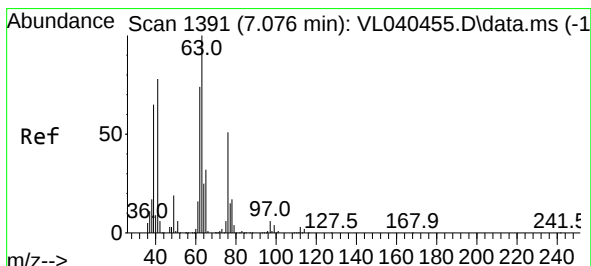
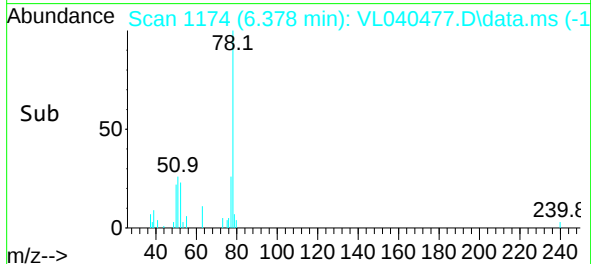
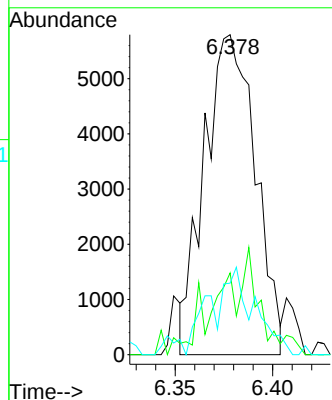
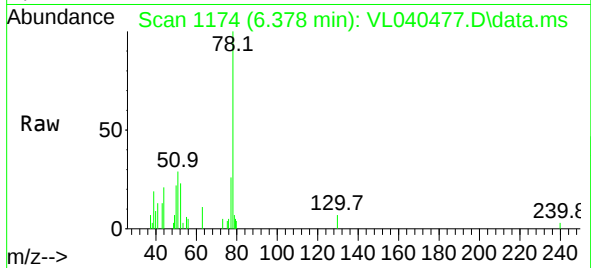




#36
Benzene
Concen: 0.045 ppbv
RT: 6.378 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

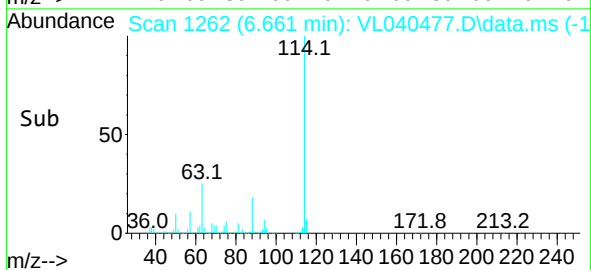
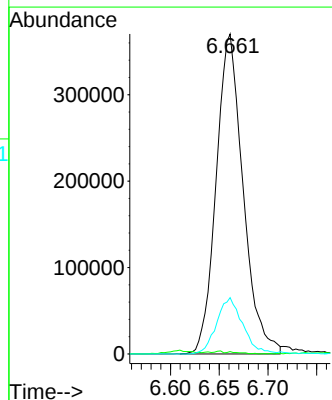
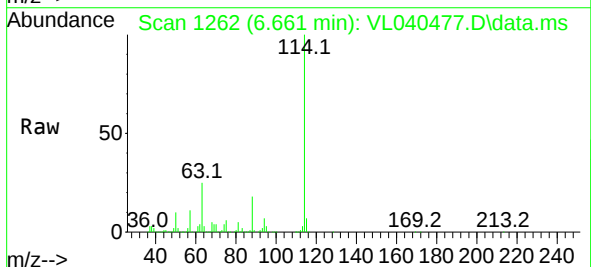
Instrument :
MSVOA_L
ClientSampleId :
SVP-04DL

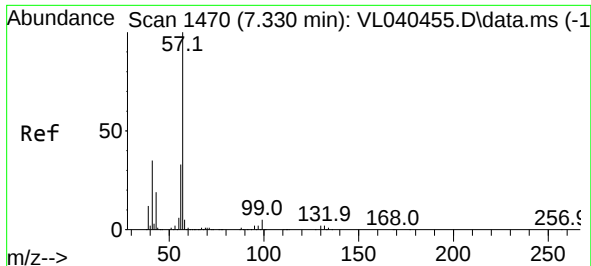
Tgt Ion: 78 Resp: 10571
Ion Ratio Lower Upper
78 100
77 22.5 18.5 27.7
50 17.8 16.1 24.1



#39
1,2-Dichloropropane
Concen: 7.900 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.415 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

Tgt Ion: 63 Resp: 711138
Ion Ratio Lower Upper
63 100
41 0.6 62.2 93.2#
62 17.6 59.0 88.4#





#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 7.336 min Scan# 14

Delta R.T. 0.006 min

Lab File: VL040477.D

Acq: 15 Jun 2023 21:42

Instrument :

MSVOA_L

ClientSampleId :

SVP-04DL

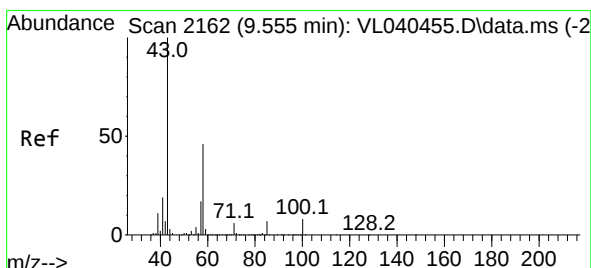
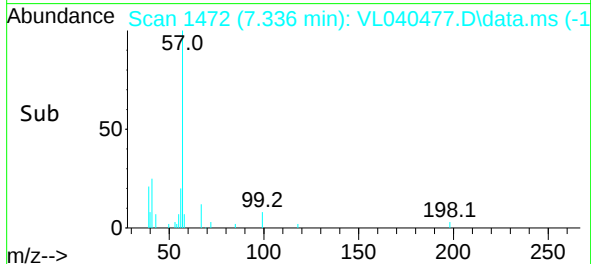
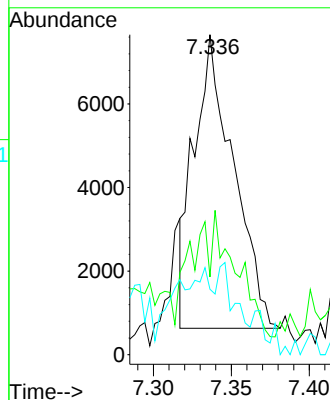
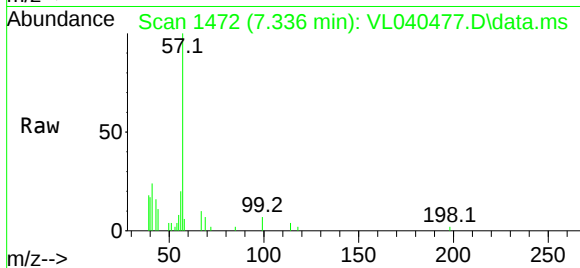
Tgt Ion: 57 Resp: 12348

Ion Ratio Lower Upper

57 100

41 68.3 27.8 41.8#

56 51.4 25.3 37.9#



#51

2-Hexanone

Concen: 0.524 ppbv

RT: 9.581 min Scan# 2170

Delta R.T. 0.026 min

Lab File: VL040477.D

Acq: 15 Jun 2023 21:42

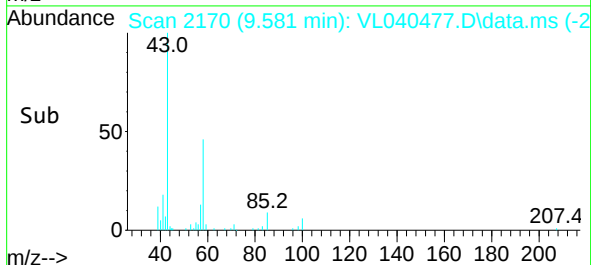
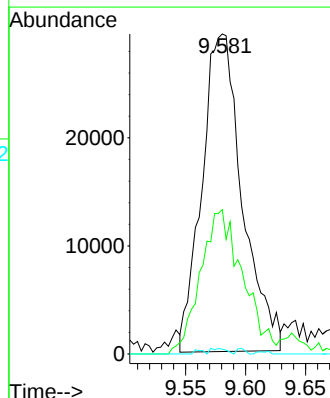
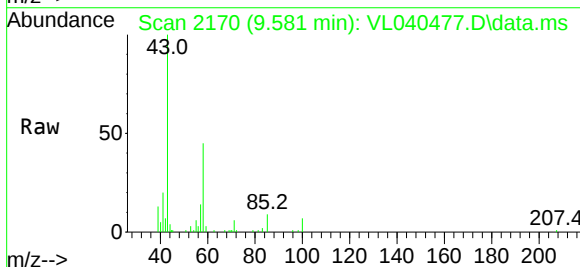
Tgt Ion: 43 Resp: 69025

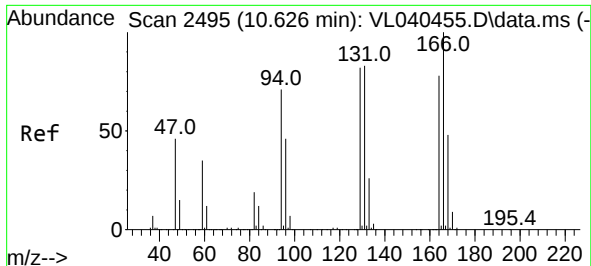
Ion Ratio Lower Upper

43 100

58 52.7 37.1 55.7

98 1.5 0.5 0.7#

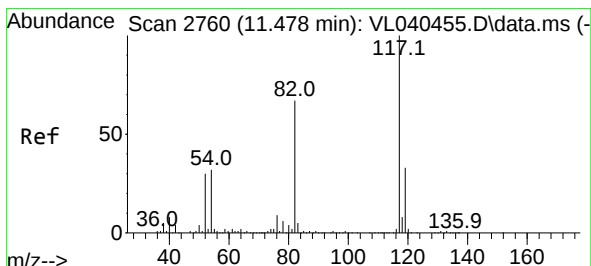
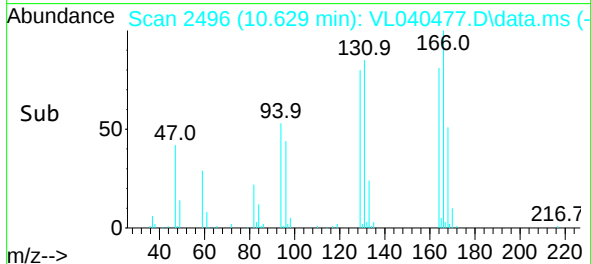
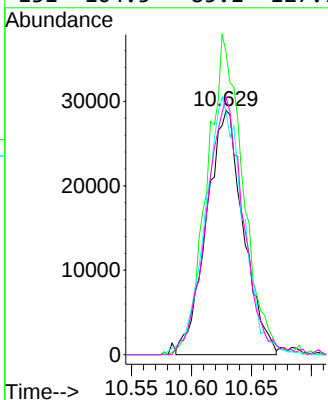
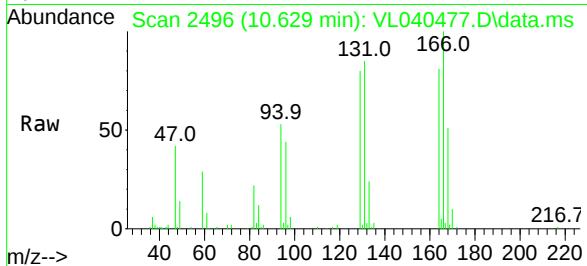




#52
Tetrachloroethene
Concen: 0.839 ppbv
RT: 10.629 min Scan# 2495
Delta R.T. 0.003 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

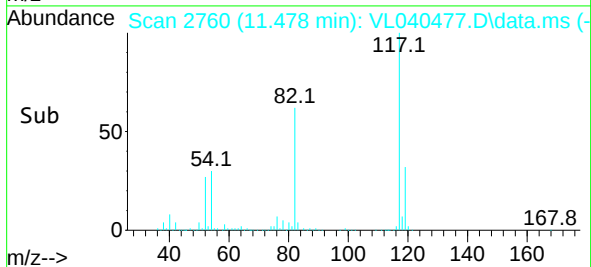
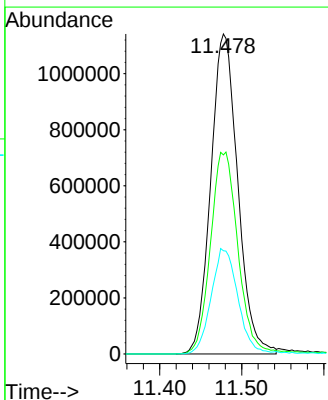
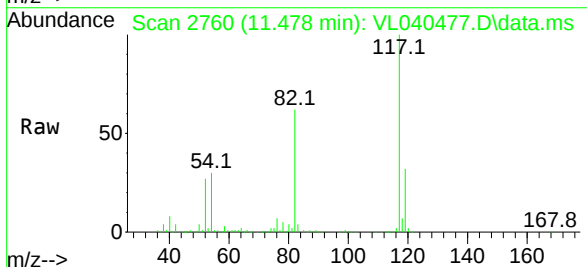
Instrument :
MSVOA_L
ClientSampleId :
SVP-04DL

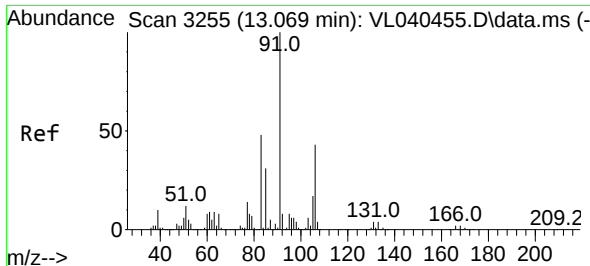
Tgt Ion:164 Resp: 61550
Ion Ratio Lower Upper
164 100
166 123.4 102.7 154.1
129 97.4 84.6 126.8
131 104.5 85.1 127.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. -0.000 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

Tgt Ion:117 Resp: 2613771
Ion Ratio Lower Upper
117 100
82 65.1 53.0 79.4
119 32.9 24.4 36.6

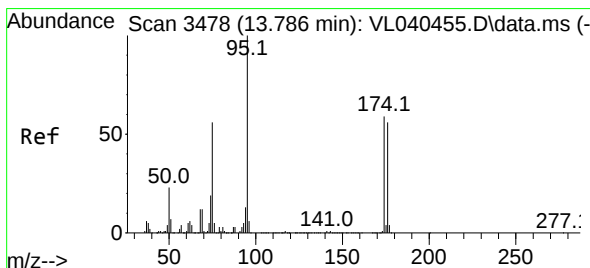
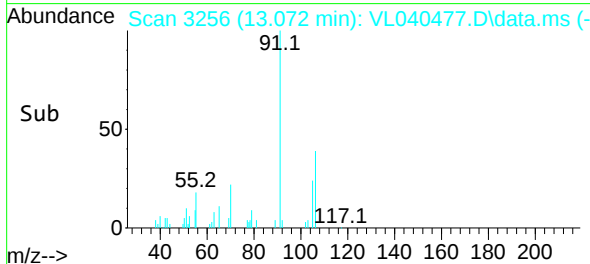
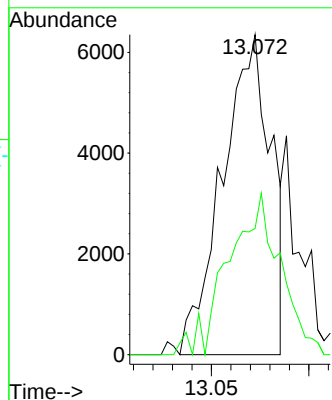
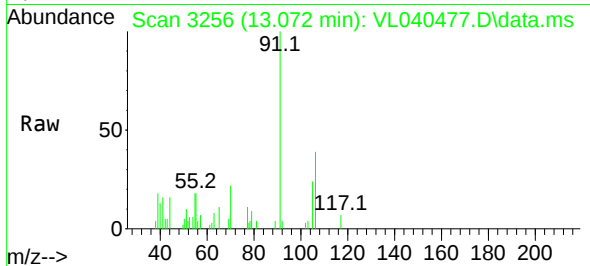




#60
o-Xylene
Concen: 0.040 ppbv
RT: 13.072 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

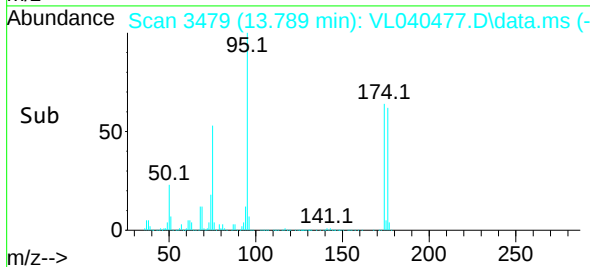
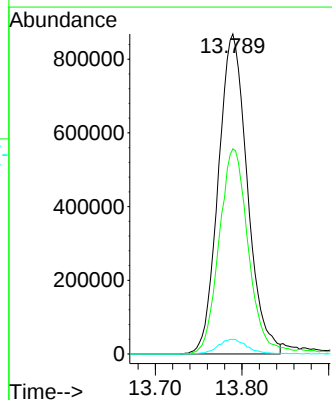
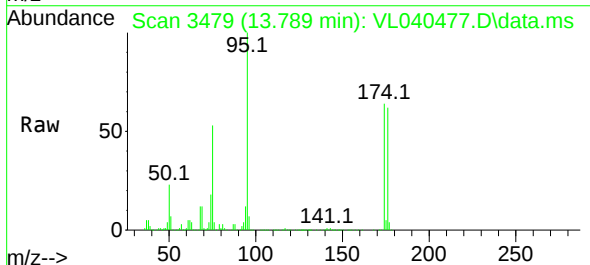
Instrument :
MSVOA_L
ClientSampleId :
SVP-04DL

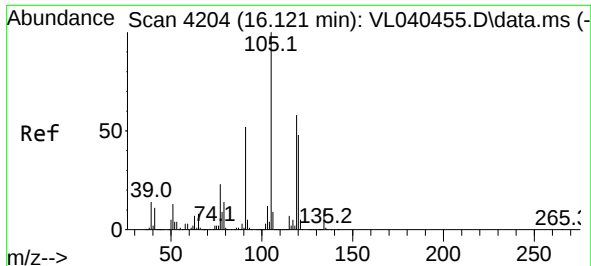
Tgt Ion: 91 Resp: 10963
Ion Ratio Lower Upper
91 100
106 55.7 22.1 66.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.361 ppbv
RT: 13.789 min Scan# 3479
Delta R.T. 0.003 min
Lab File: VL040477.D
Acq: 15 Jun 2023 21:42

Tgt Ion: 95 Resp: 2019382
Ion Ratio Lower Upper
95 100
174 65.9 47.7 71.5
175 4.7 3.5 5.3





#74

1,2,4-Trimethylbenzene

Concen: 0.069 ppbv

RT: 16.121 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL040477.D

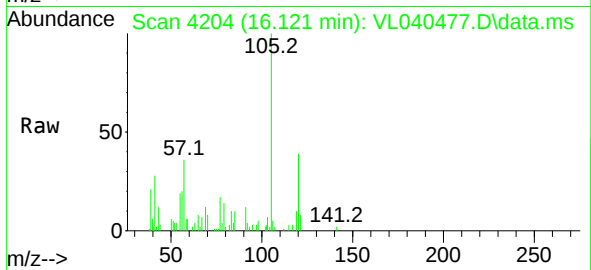
Acq: 15 Jun 2023 21:42

Instrument :

MSVOA_L

ClientSampleId :

SVP-04DL



Tgt Ion:105 Resp: 22313

Ion Ratio Lower Upper

105 100

120 39.0 38.4 57.6

91 9.6 41.3 61.9#

77 13.2 18.6 28.0#

