

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122222\
 Data File : VL040065.D
 Acq On : 22 Dec 2022 13:09
 Operator : SY/MD
 Sample : N6181-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 23 06:27:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

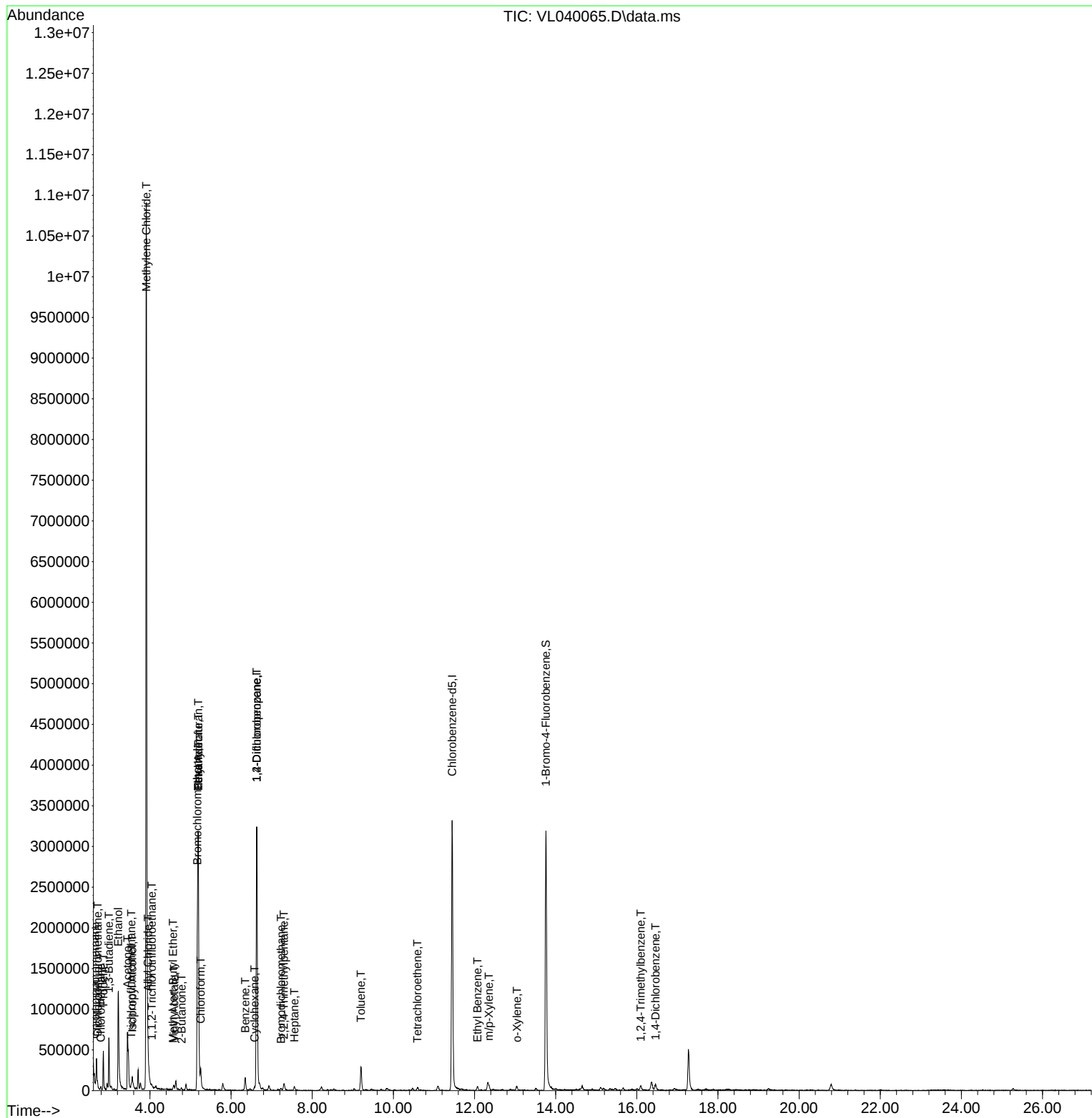
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.169	49	896011	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2462313	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2124317	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1614969	9.952	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.709	85	48122	0.287	ppbv	95
3) Chlorodifluoromethane	2.652	51	60231	0.456	ppbv #	88
4) Chloromethane	2.790	50	28855	0.348	ppbv	90
9) Propene	2.851	41	112907	2.012	ppbv	95
10) Heptane	7.558	43	16110	0.118	ppbv	100
11) Trichlorofluoromethane	3.542	101	39249	0.215	ppbv	91
12) 1,1,2-Trichlorotrifluo...	4.044	101	4735	0.034	ppbv #	22
13) Ethanol	3.221	45	1245971	235.966	ppbv	95
15) Acetone	3.446	43	775436	5.594	ppbv	96
16) 1,3-Butadiene	2.989	39	76173	1.264	ppbv #	21
19) Isopropyl Alcohol	3.565	45	154416	2.261	ppbv #	88
20) Methylene Chloride	3.912	84	3991431	67.746	ppbv	92
21) Allyl Chloride	3.951	41	3994	0.048	ppbv #	1
23) Vinyl Acetate	4.600	43	8258	0.188	ppbv #	25
25) Ethyl Acetate	5.192	43	817274	3.405	ppbv #	76
26) Hexane	5.192	57	1152471	11.423	ppbv #	37
28) Methyl tert-Butyl Ether	4.571	73	5234	0.044	ppbv #	87
29) Chloroform	5.253	83	119721	0.778	ppbv	99
30) Cyclohexane	6.581	84	3069	0.034	ppbv #	1
34) 2-Butanone	4.780	43	9861	0.074	ppbv #	15
36) Benzene	6.349	78	123440	0.561	ppbv	98
39) 1,2-Dichloropropane	6.632	63	625916	7.594	ppbv #	23
41) Tetrahydrofuran	5.192	42	414799	4.975	ppbv #	48
42) Bromodichloromethane	7.230	83	7059	0.040	ppbv #	76
44) 2,2,4-Trimethylpentane	7.304	57	64755	0.179	ppbv #	72
52) Tetrachloroethene	10.590	164	3997	0.053	ppbv #	43
53) Toluene	9.201	91	215980	0.887	ppbv	100
58) Ethyl Benzene	12.069	91	38421	0.127	ppbv	98
59) m/p-Xylene	12.355	91	24118	0.092	ppbv #	32
60) o-Xylene	13.047	91	9912	0.039	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.098	105	35736	0.129	ppbv #	71
76) 1,4-Dichlorobenzene	16.461	146	6732	0.045	ppbv #	2

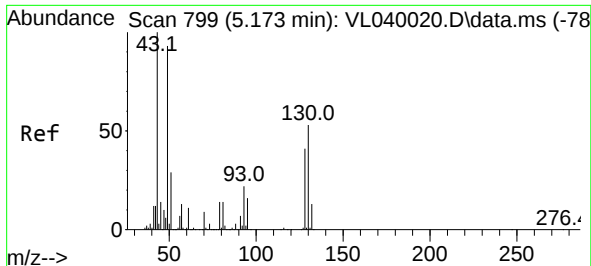
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : N6181-03DUP
Misc : 400mL/MSVOA_L
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Instrument :
MSVOA_L
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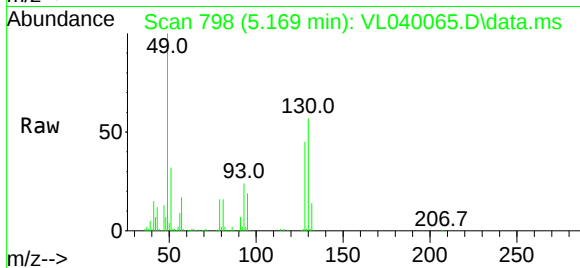
Quant Time: Dec 23 06:27:37 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
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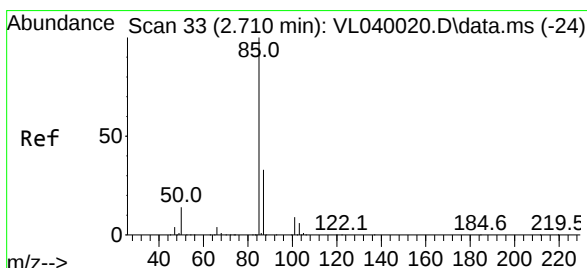
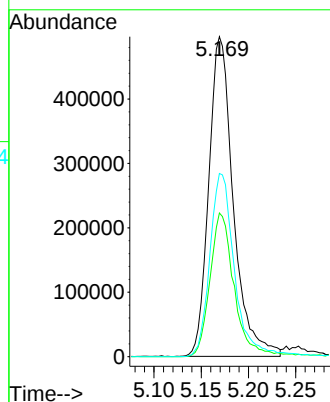
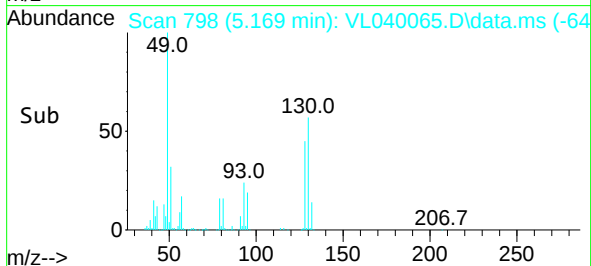


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 799
 Delta R.T. -0.004 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

Instrument :
 MSVOA_L
 ClientSampleId :

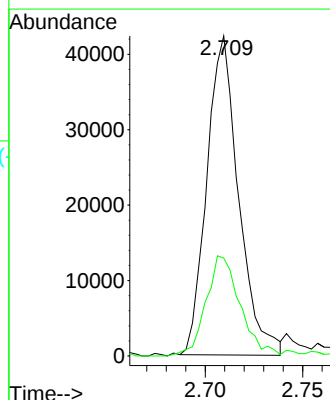
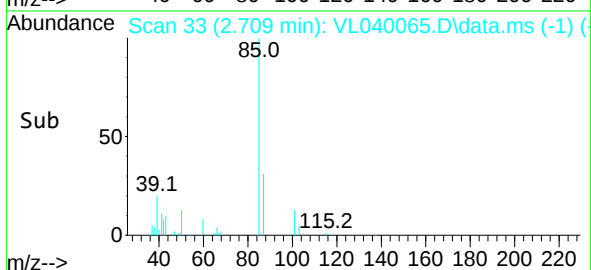
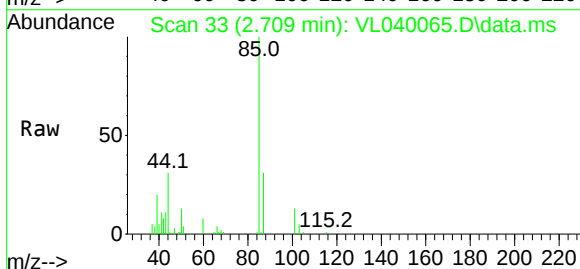


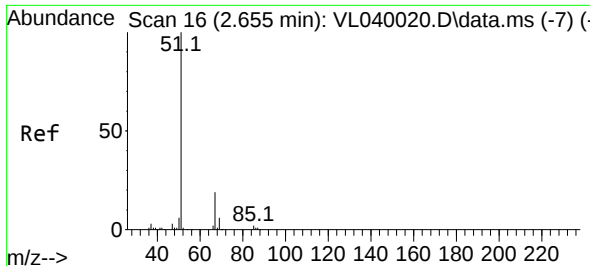
Tgt Ion: 49 Resp: 896011
 Ion Ratio Lower Upper
 49 100
 128 45.5 22.4 67.3
 130 58.1 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.287 ppbv
 RT: 2.709 min Scan# 33
 Delta R.T. -0.000 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

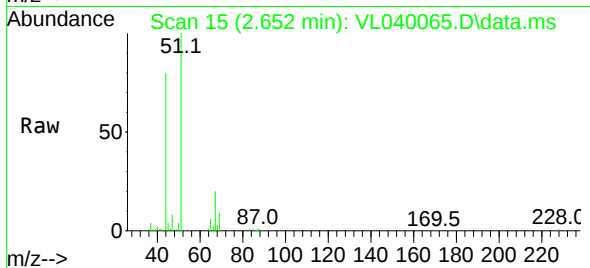
Tgt Ion: 85 Resp: 48122
 Ion Ratio Lower Upper
 85 100
 87 30.2 26.6 40.0



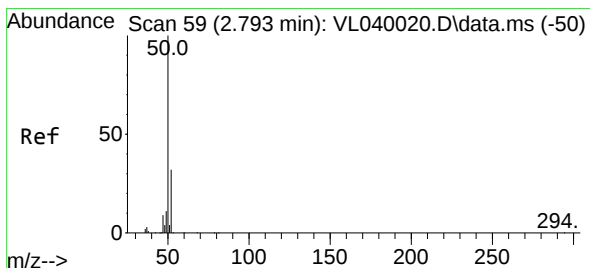
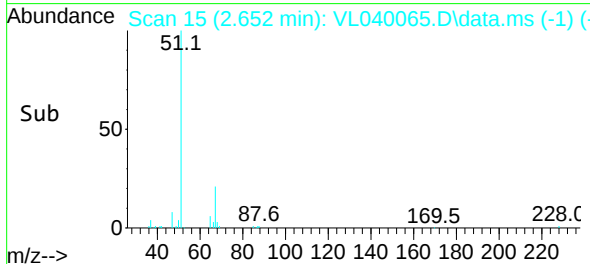
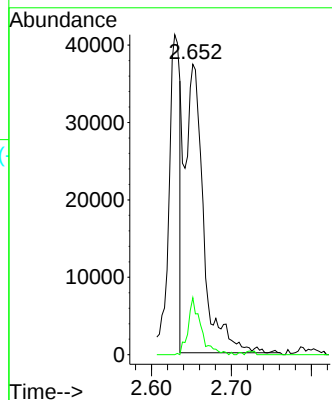


#3
Chlorodifluoromethane
Concen: 0.456 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Instrument :
MSVOA_L
ClientSampleId :

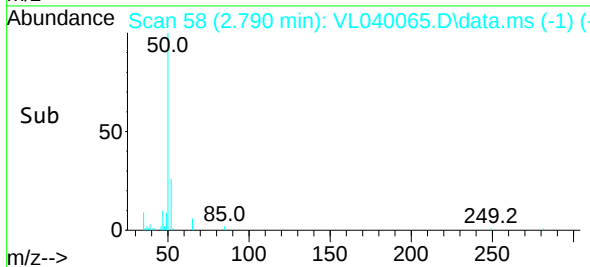
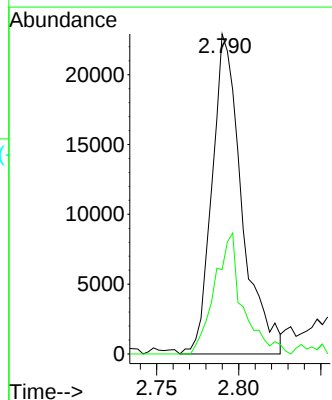
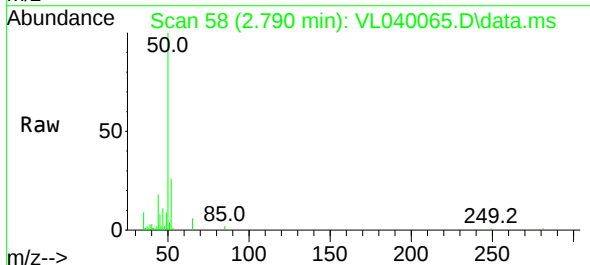


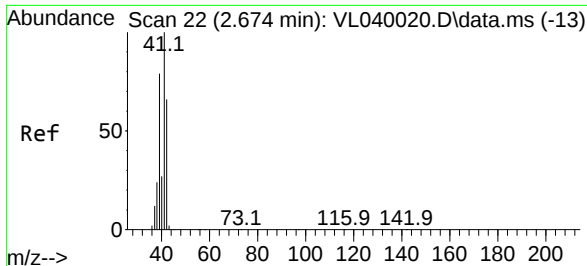
Tgt Ion: 51 Resp: 60231
Ion Ratio Lower Upper
51 100
67 13.7 15.3 22.9#



#4
Chloromethane
Concen: 0.348 ppbv
RT: 2.790 min Scan# 58
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 50 Resp: 28855
Ion Ratio Lower Upper
50 100
52 26.4 25.5 38.3

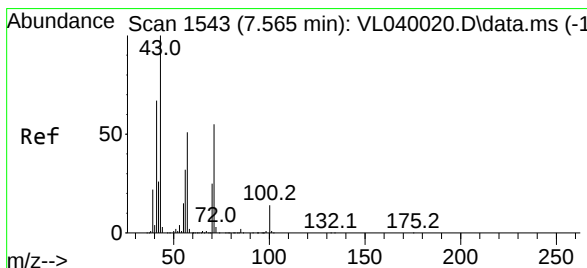
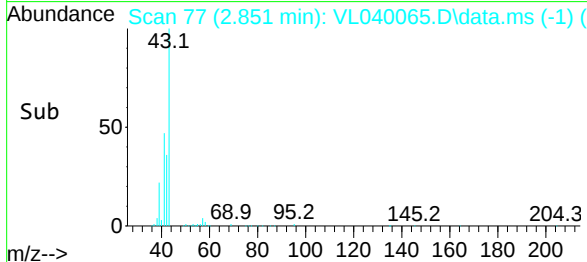
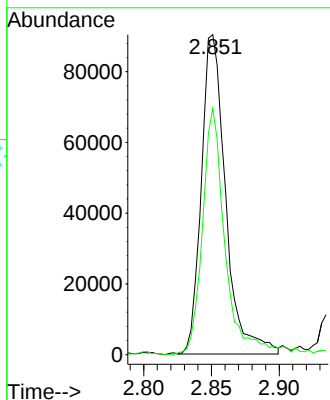
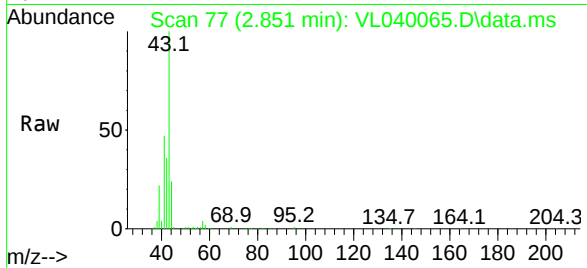




#9
 Propene
 Concen: 2.012 ppbv
 RT: 2.851 min Scan# 71
 Delta R.T. 0.177 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

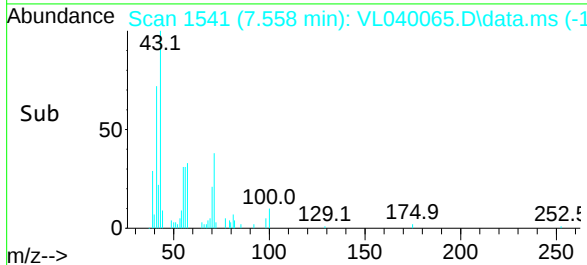
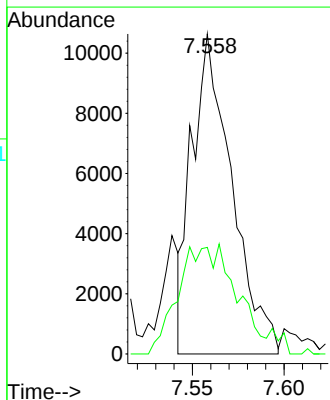
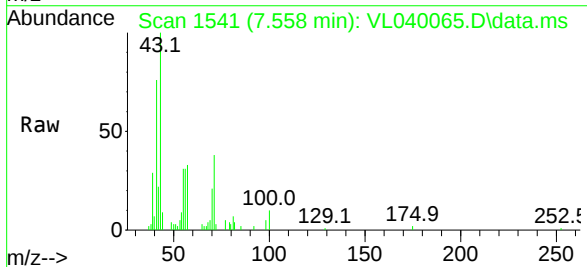
Instrument :
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 ClientSampleId :

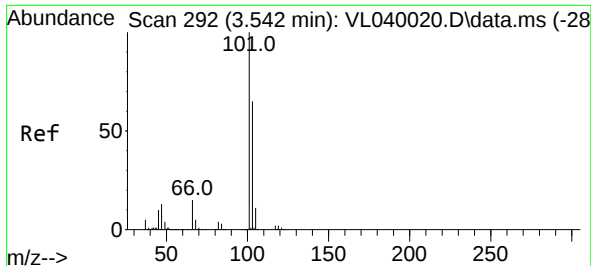
Tgt Ion: 41 Resp: 112907
 Ion Ratio Lower Upper
 41 100
 42 73.0 54.8 82.2



#10
 Heptane
 Concen: 0.118 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. -0.007 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

Tgt Ion: 43 Resp: 16110
 Ion Ratio Lower Upper
 43 100
 57 51.7 41.2 61.8

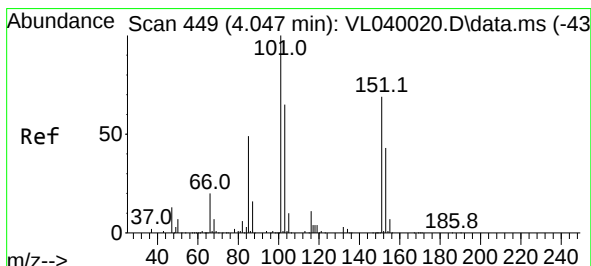
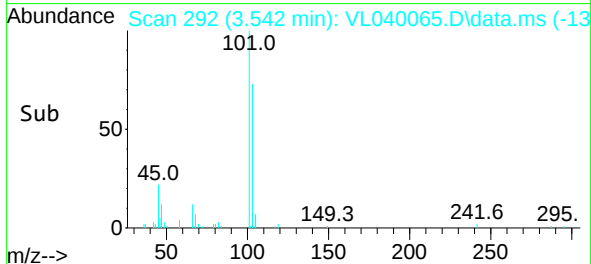
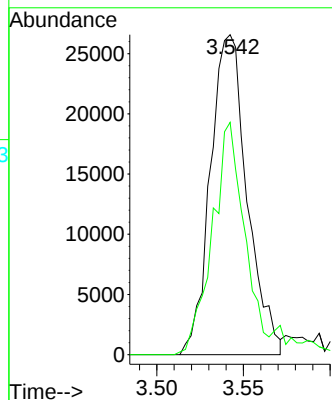
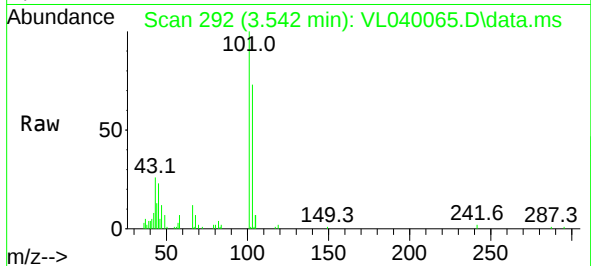




#11
 Trichlorofluoromethane
 Concen: 0.215 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. -0.000 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

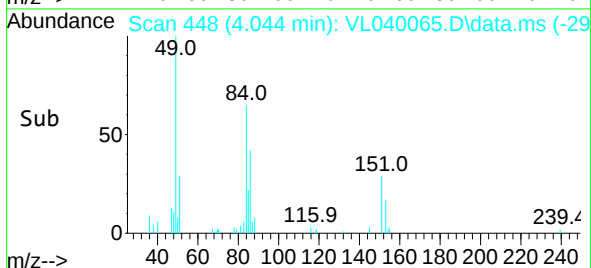
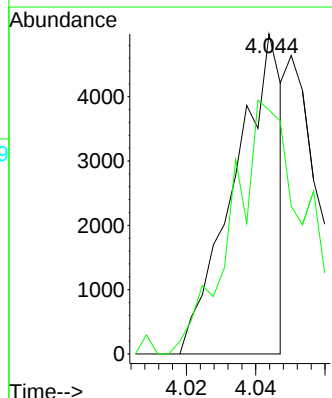
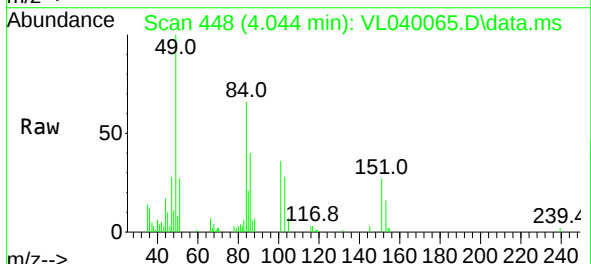
Instrument :
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 ClientSampleId :

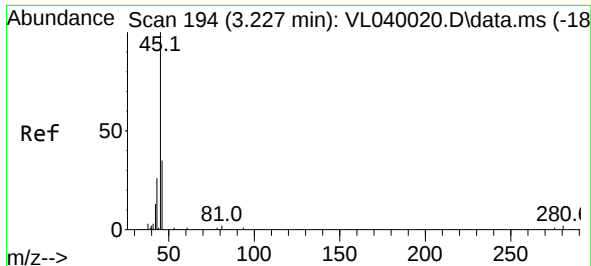
Tgt Ion:101 Resp: 39249
 Ion Ratio Lower Upper
 101 100
 103 71.8 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.034 ppbv
 RT: 4.044 min Scan# 448
 Delta R.T. -0.003 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

Tgt Ion:101 Resp: 4735
 Ion Ratio Lower Upper
 101 100
 151 131.8 55.0 82.4#

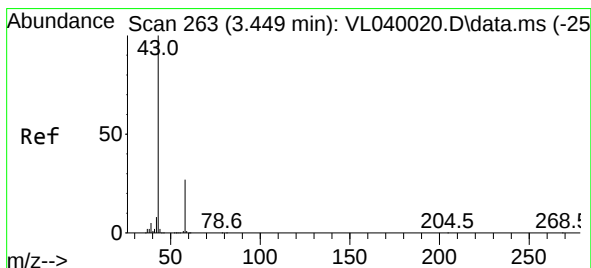
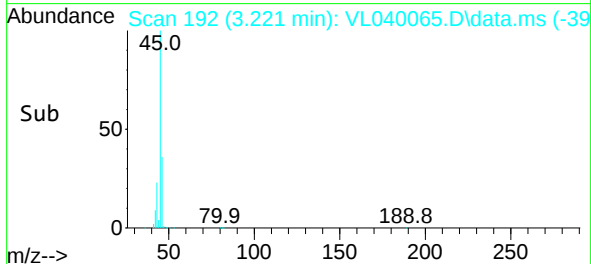
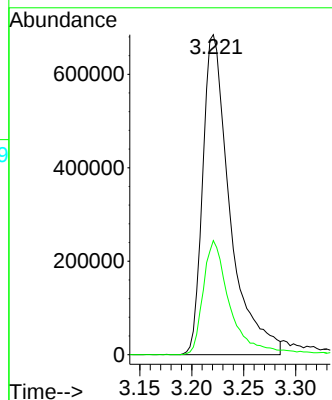
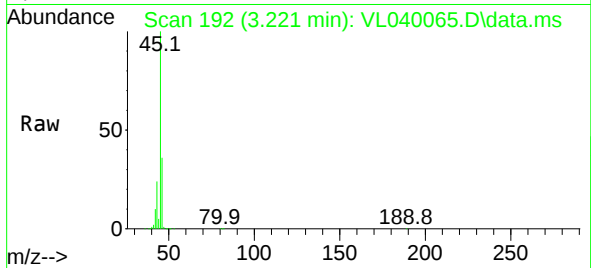




#13
Ethanol
Concen: 235.966 ppbv
RT: 3.221 min Scan# 194
Delta R.T. -0.007 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

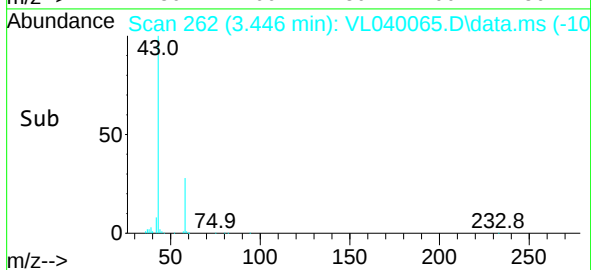
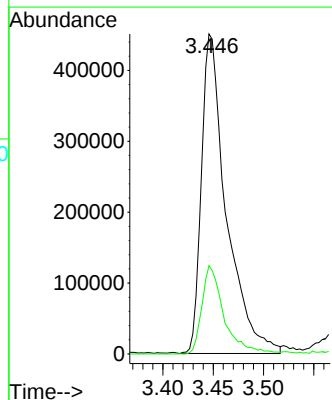
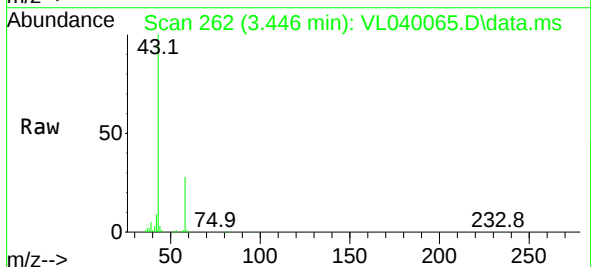
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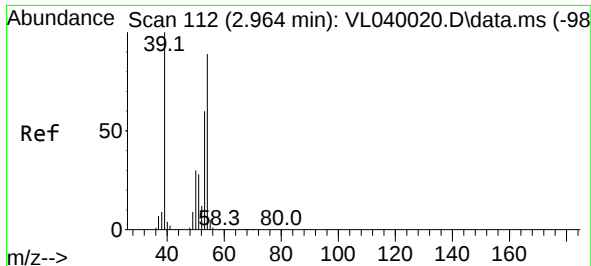
Tgt Ion: 45 Resp: 1245971
Ion Ratio Lower Upper
45 100
46 36.9 13.7 54.7



#15
Acetone
Concen: 5.594 ppbv
RT: 3.446 min Scan# 262
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 43 Resp: 775436
Ion Ratio Lower Upper
43 100
58 25.0 21.8 32.8

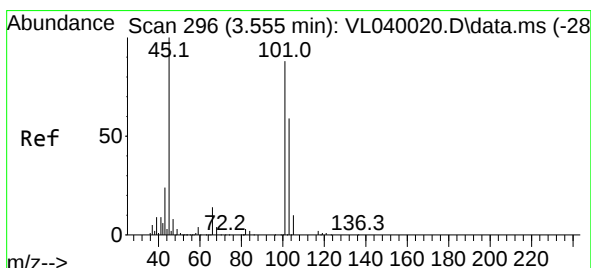
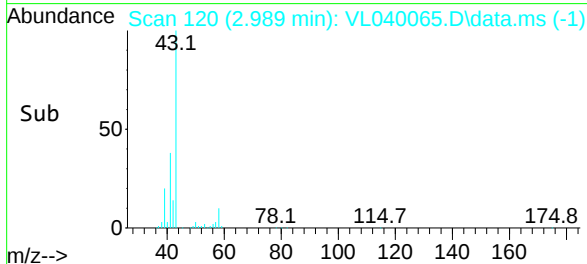
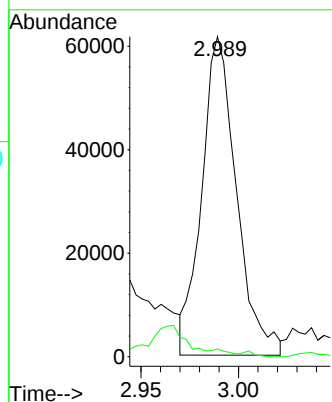
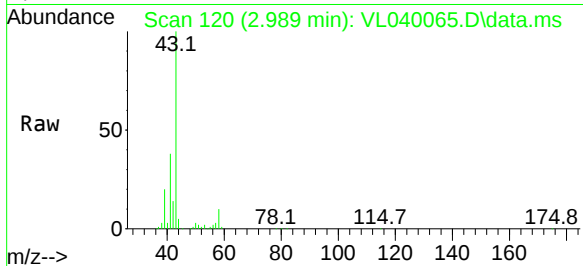




#16
1,3-Butadiene
Concen: 1.264 ppbv
RT: 2.989 min Scan# 112
Delta R.T. 0.026 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

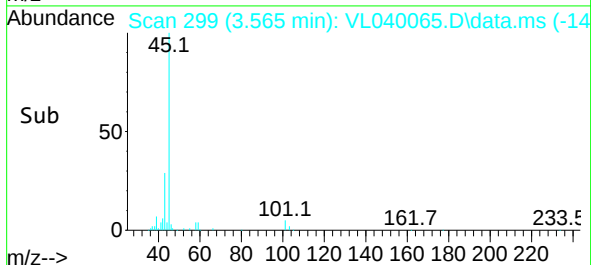
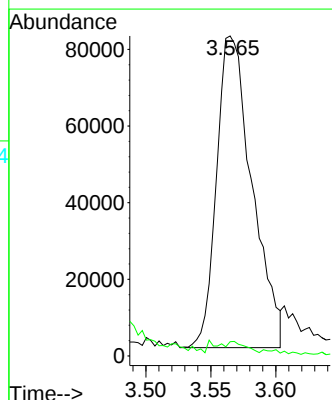
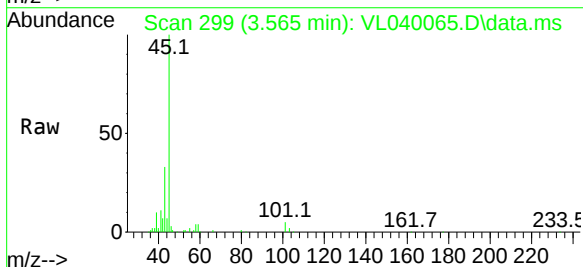
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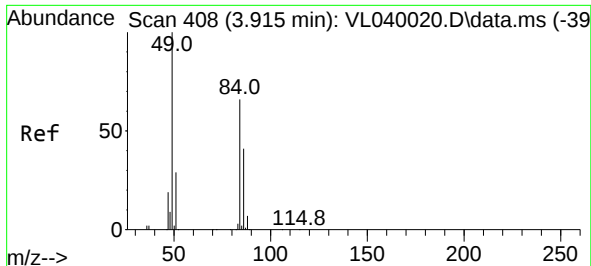
Tgt Ion: 39 Resp: 76173
Ion Ratio Lower Upper
39 100
54 12.7 68.3 102.5#



#19
Isopropyl Alcohol
Concen: 2.261 ppbv
RT: 3.565 min Scan# 299
Delta R.T. 0.010 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 45 Resp: 154416
Ion Ratio Lower Upper
45 100
58 6.4 1.7 2.5#





#20

Methylene Chloride

Concen: 67.746 ppbv

RT: 3.912 min Scan# 408

Delta R.T. -0.003 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 84 Resp: 3991431

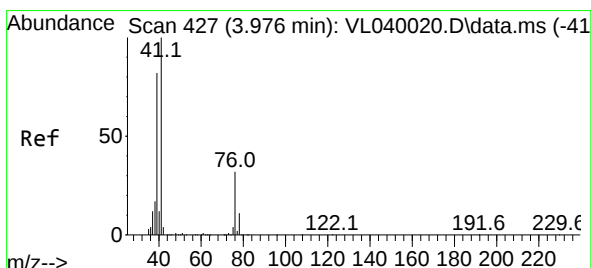
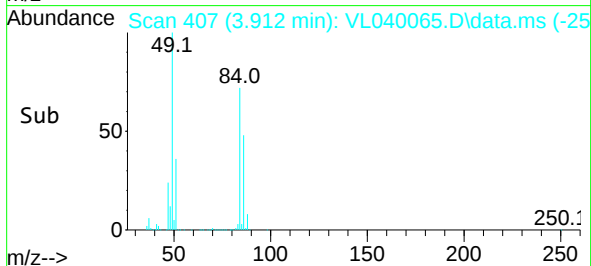
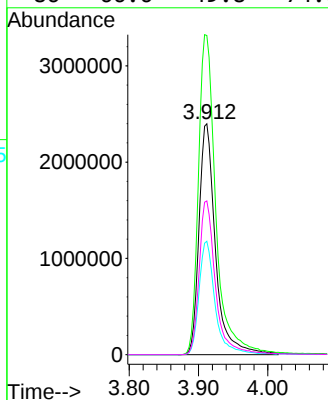
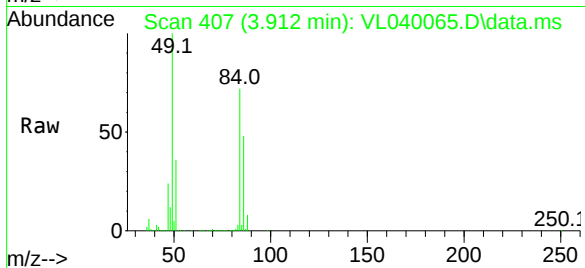
Ion Ratio Lower Upper

84 100

49 138.2 120.5 180.7

51 49.1 35.2 52.8

86 66.6 49.8 74.6



#21

Allyl Chloride

Concen: 0.048 ppbv

RT: 3.951 min Scan# 419

Delta R.T. -0.026 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

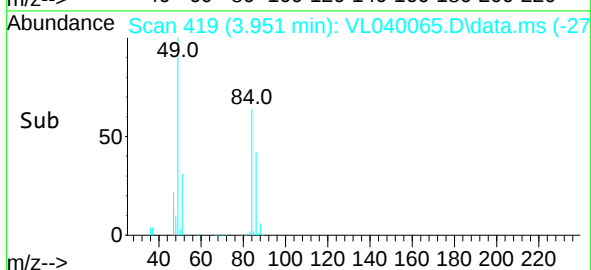
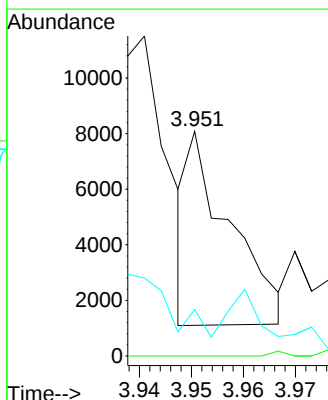
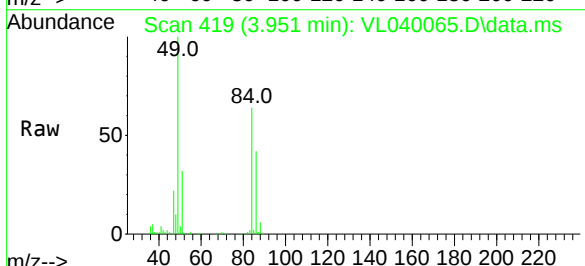
Tgt Ion: 41 Resp: 3994

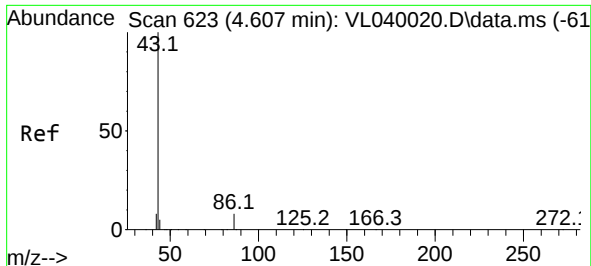
Ion Ratio Lower Upper

41 100

76 1.9 25.9 38.9#

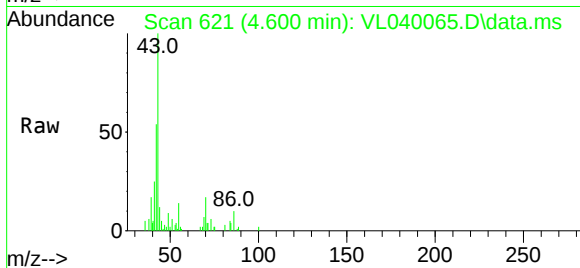
39 199.5 66.0 99.0#



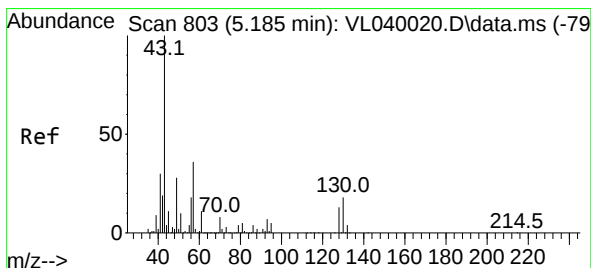
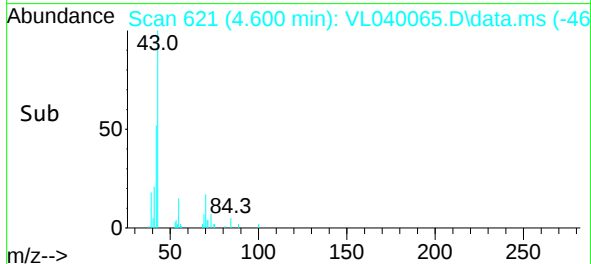
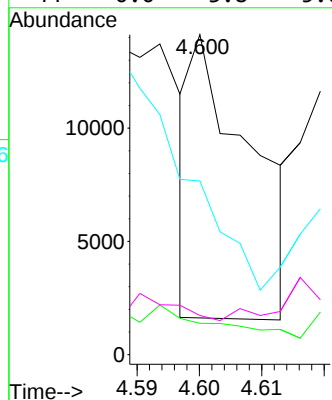


#23
 Vinyl Acetate
 Concen: 0.188 ppbv
 RT: 4.600 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

Instrument :
 MSVOA_L
 ClientSampleId :

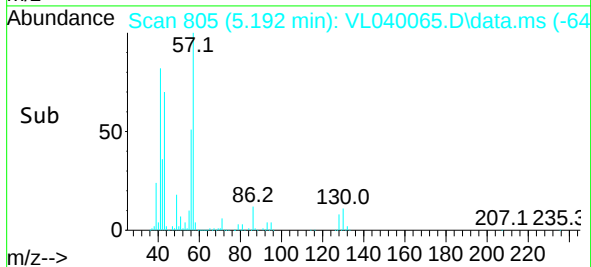
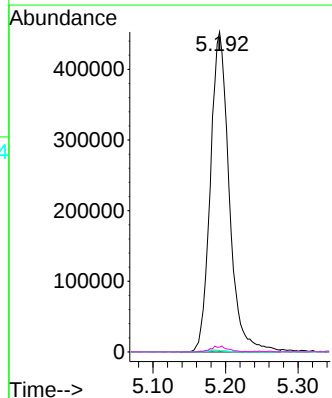
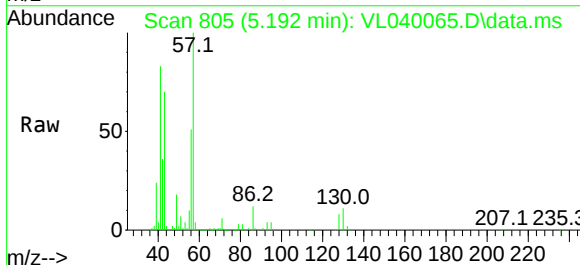


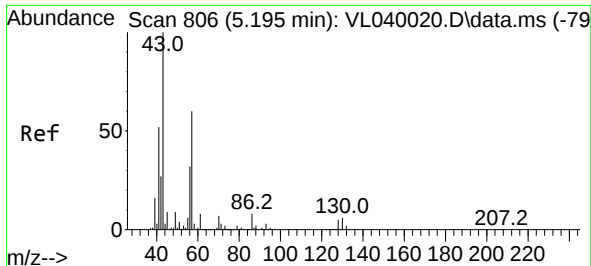
Tgt Ion: 43 Resp: 8258
 Ion Ratio Lower Upper
 43 100
 86 4.6 5.3 7.9#
 42 66.1 7.4 11.0#
 44 0.0 3.8 5.6#



#25
 Ethyl Acetate
 Concen: 3.405 ppbv
 RT: 5.192 min Scan# 805
 Delta R.T. 0.006 min
 Lab File: VL040065.D
 Acq: 22 Dec 2022 13:09

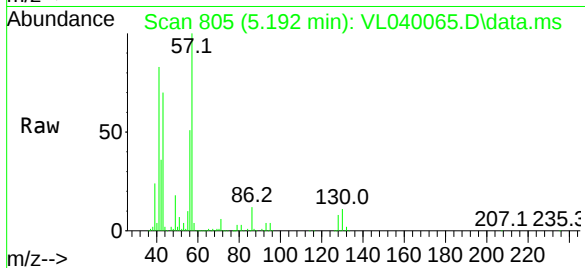
Tgt Ion: 43 Resp: 817274
 Ion Ratio Lower Upper
 43 100
 45 0.7 8.6 12.8#
 61 0.5 8.5 12.7#
 70 1.7 5.8 8.8#





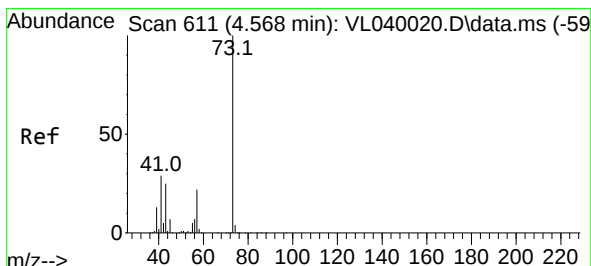
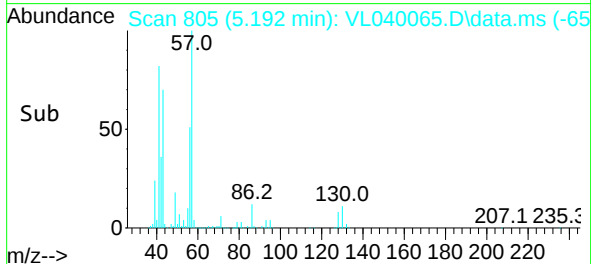
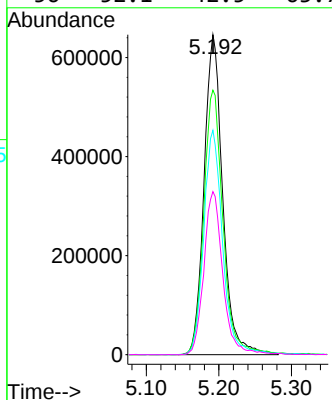
#26
Hexane
Concen: 11.423 ppbv
RT: 5.192 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 1152471

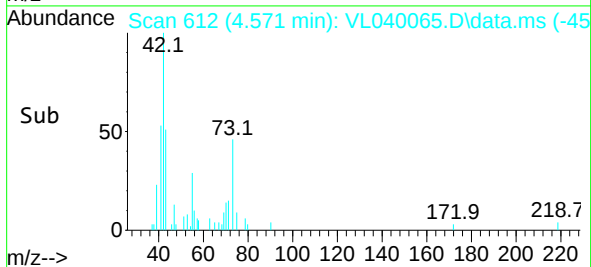
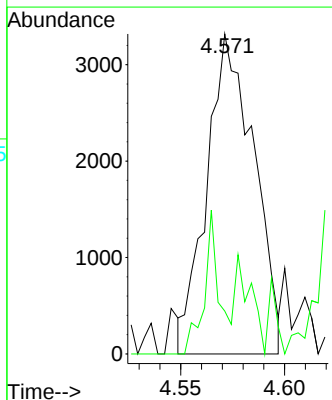
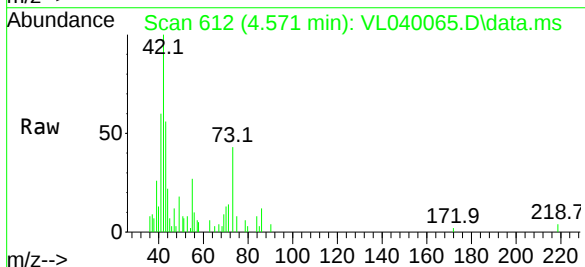
Ion	Ratio	Lower	Upper
57	100		
41	86.1	72.1	108.1
43	71.5	192.1	288.1#
56	52.1	42.5	63.7

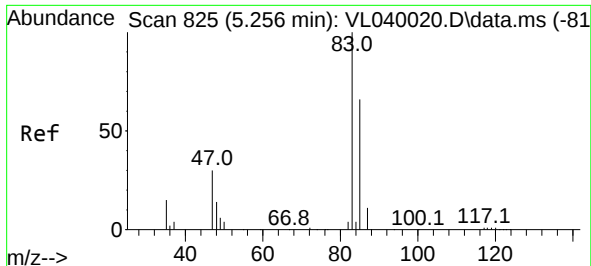


#28
Methyl tert-Butyl Ether
Concen: 0.044 ppbv
RT: 4.571 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 73 Resp: 5234

Ion	Ratio	Lower	Upper
73	100		
57	29.8	18.6	28.0#





#29

Chloroform

Concen: 0.778 ppbv

RT: 5.253 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

Instrument :

MSVOA_L

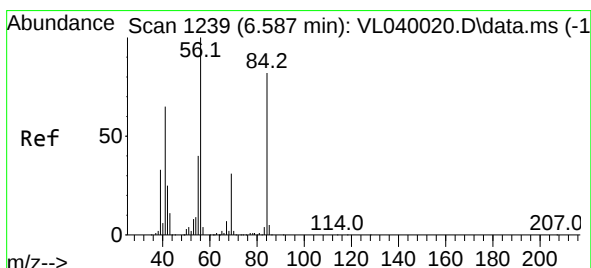
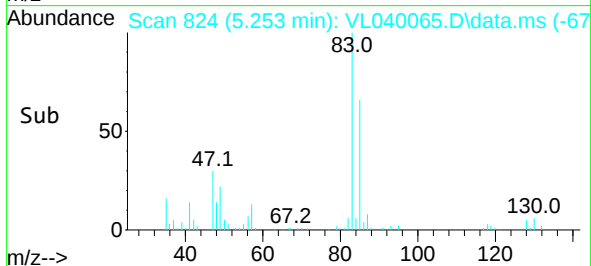
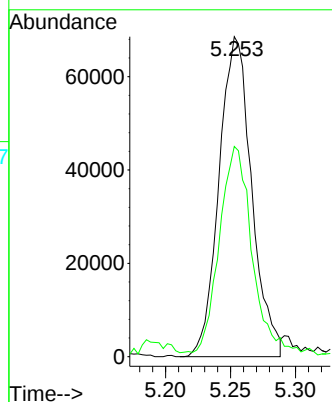
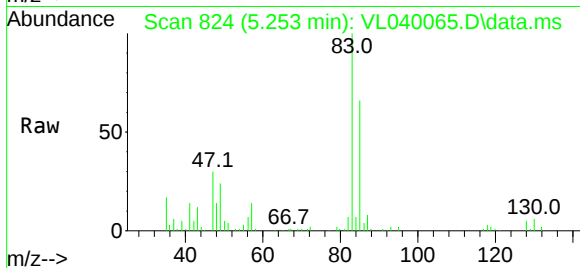
ClientSampleId :

Tgt Ion: 83 Resp: 119721

Ion Ratio Lower Upper

83 100

85 64.4 52.4 78.6



#30

Cyclohexane

Concen: 0.034 ppbv

RT: 6.581 min Scan# 1237

Delta R.T. -0.007 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

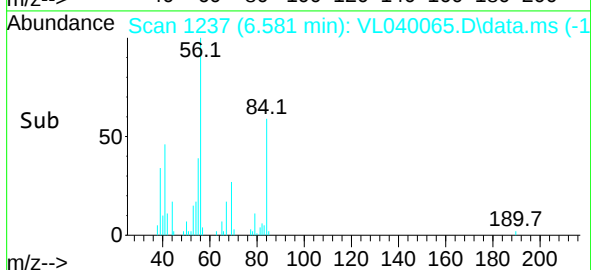
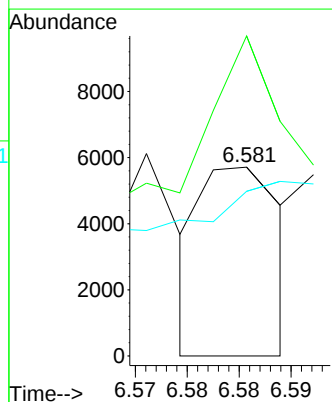
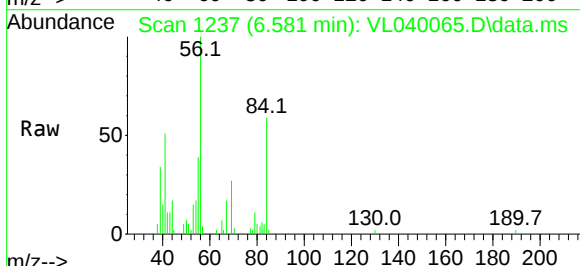
Tgt Ion: 84 Resp: 3069

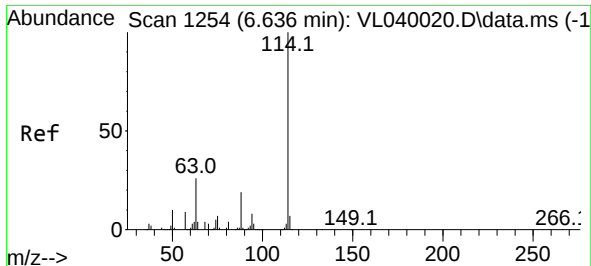
Ion Ratio Lower Upper

84 100

56 517.3 110.2 165.4#

41 0.0 67.8 101.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

Instrument :

MSVOA_L

ClientSampleId :

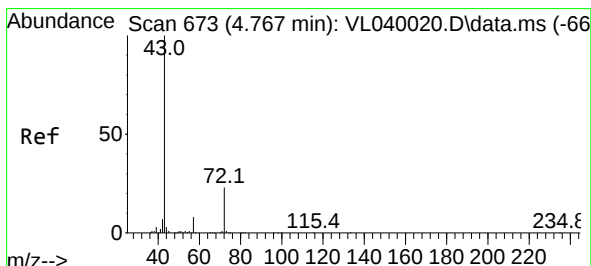
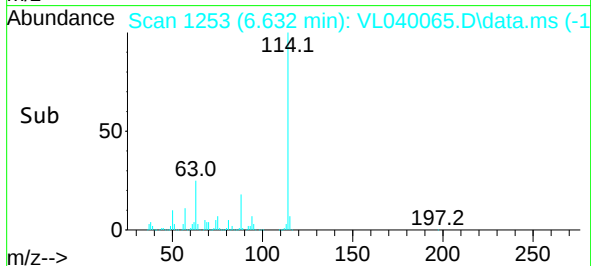
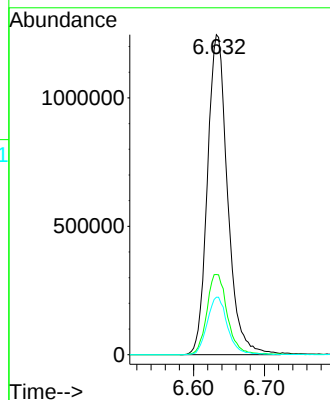
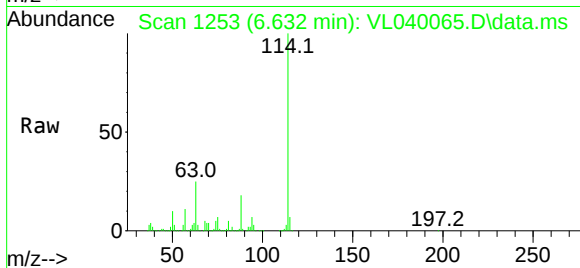
Tgt Ion:114 Resp: 2462313

Ion Ratio Lower Upper

114 100

63 25.7 20.2 30.2

88 18.2 14.6 21.8



#34

2-Butanone

Concen: 0.074 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.013 min

Lab File: VL040065.D

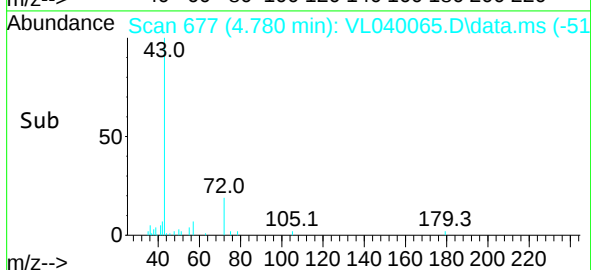
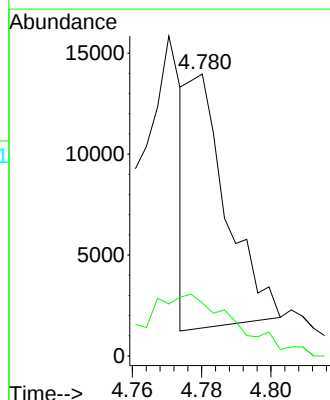
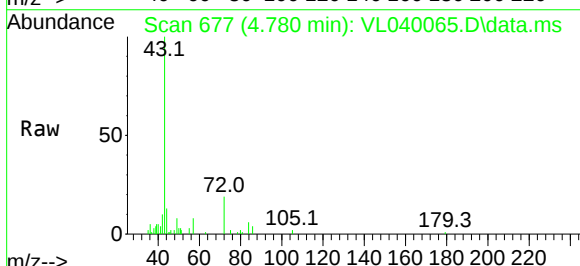
Acq: 22 Dec 2022 13:09

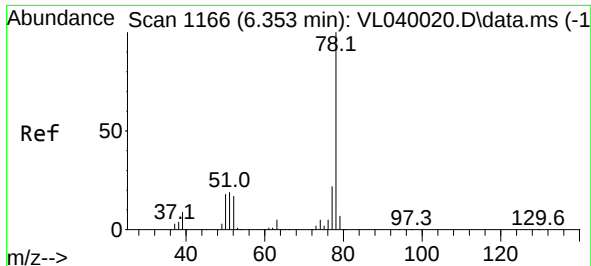
Tgt Ion: 43 Resp: 9861

Ion Ratio Lower Upper

43 100

72 63.2 18.0 27.0#

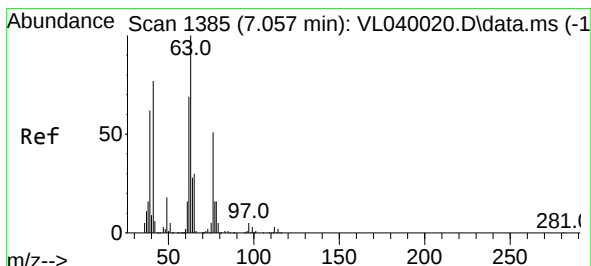
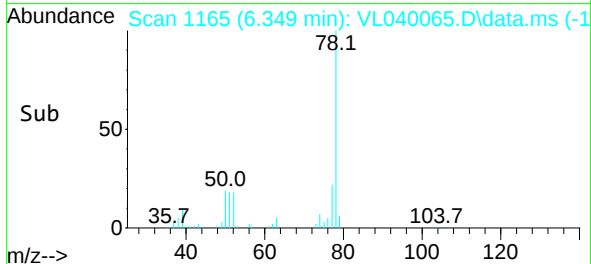
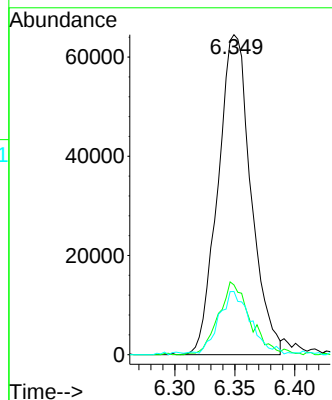
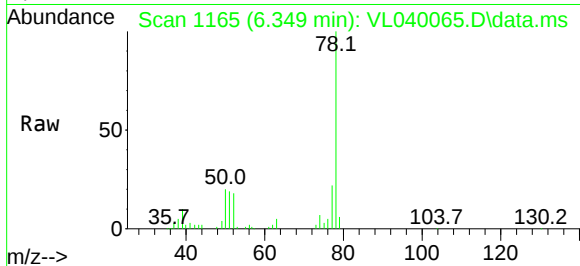




#36
Benzene
Concen: 0.561 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

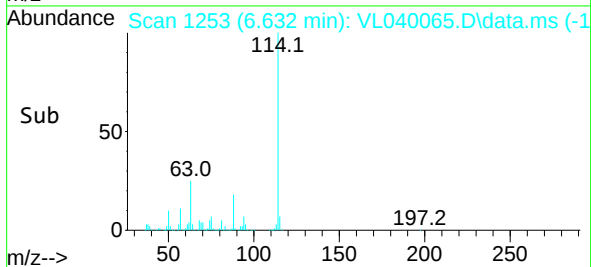
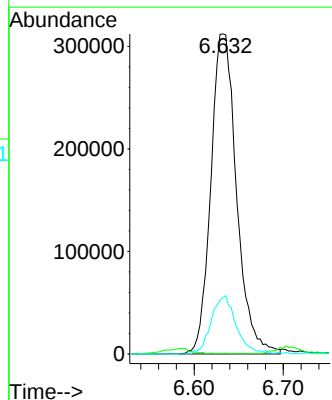
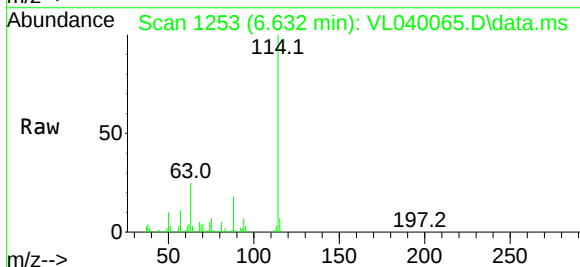
Instrument :
MSVOA_L
ClientSampleId :

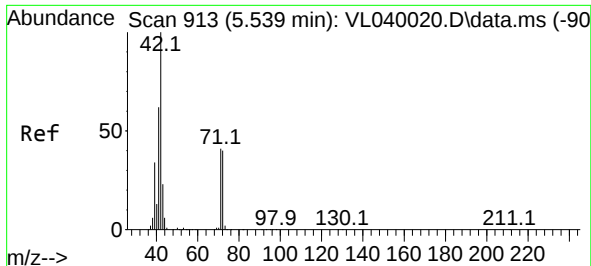
Tgt Ion: 78 Resp: 123440
Ion Ratio Lower Upper
78 100
77 21.8 17.5 26.3
50 19.2 14.2 21.2



#39
1,2-Dichloropropane
Concen: 7.594 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.425 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 63 Resp: 625916
Ion Ratio Lower Upper
63 100
41 0.0 61.4 92.0#
62 17.6 55.4 83.2#





#41

Tetrahydrofuran

Concen: 4.975 ppbv

RT: 5.192 min Scan# 80

Delta R.T. -0.347 min

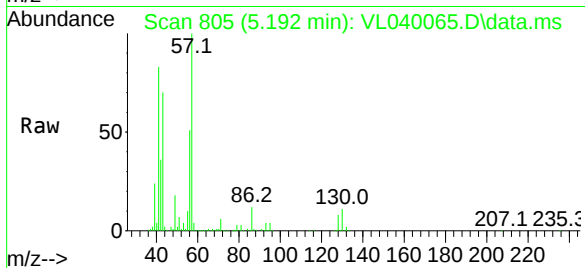
Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

Instrument :

MSVOA_L

ClientSampleId :



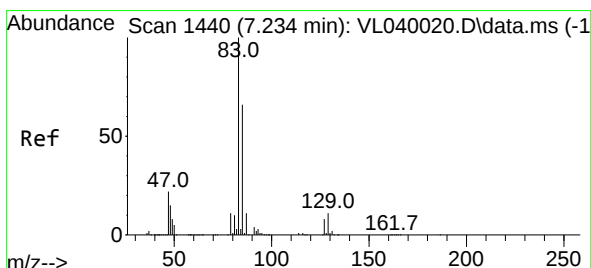
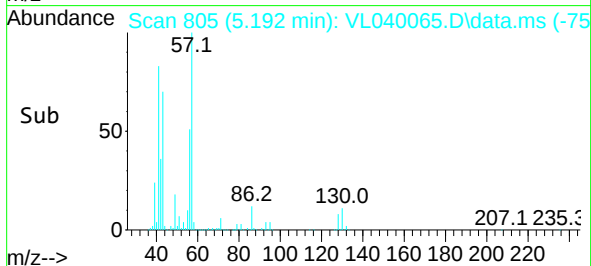
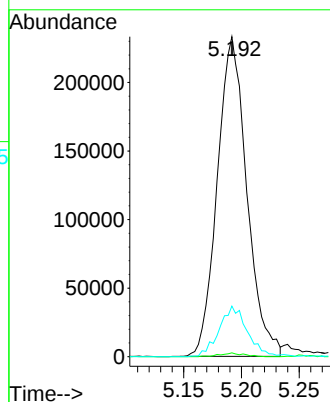
Tgt Ion: 42 Resp: 414799

Ion Ratio Lower Upper

42 100

72 1.0 32.9 49.3#

71 15.3 32.2 48.2#



#42

Bromodichloromethane

Concen: 0.040 ppbv

RT: 7.230 min Scan# 1439

Delta R.T. -0.003 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

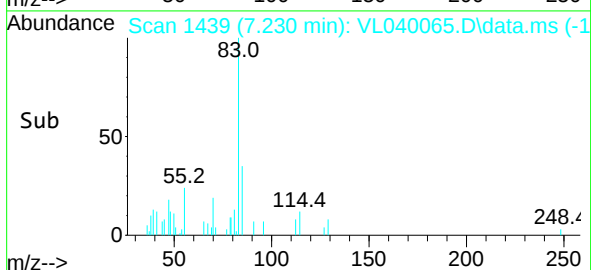
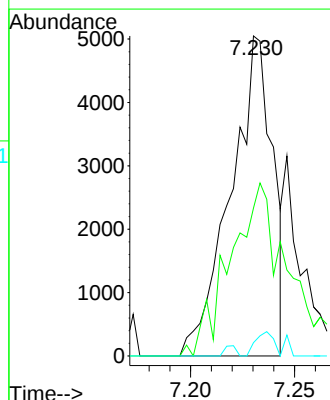
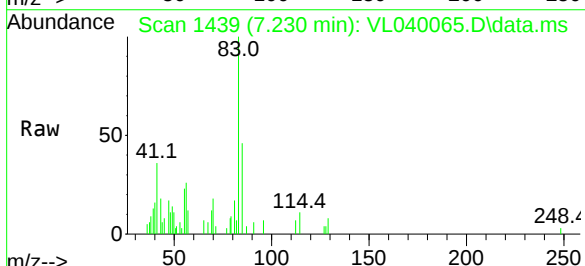
Tgt Ion: 83 Resp: 7059

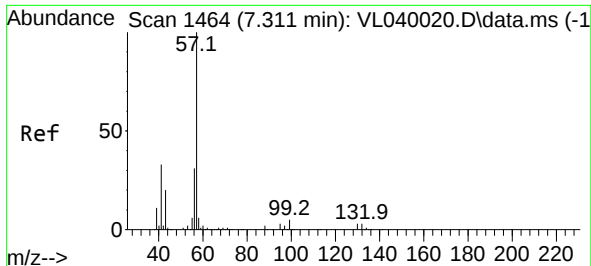
Ion Ratio Lower Upper

83 100

85 46.2 53.0 79.6#

127 4.2 6.2 9.2#

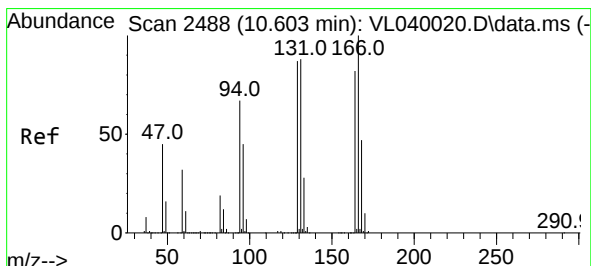
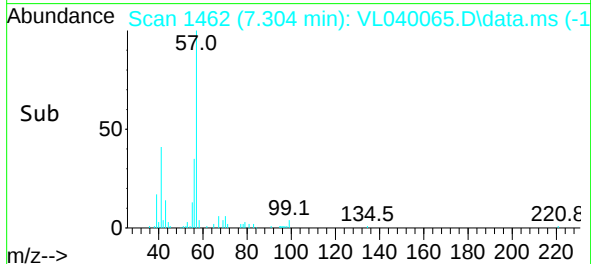
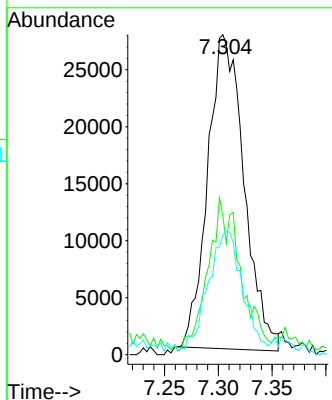
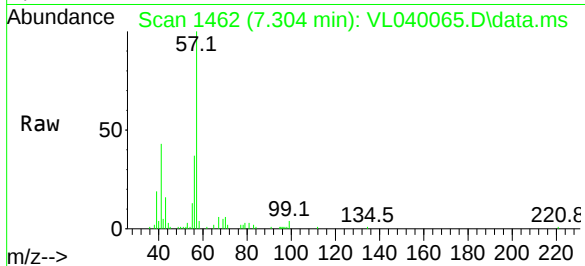




#44
2,2,4-Trimethylpentane
Concen: 0.179 ppbv
RT: 7.304 min Scan# 1462
Delta R.T. -0.007 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

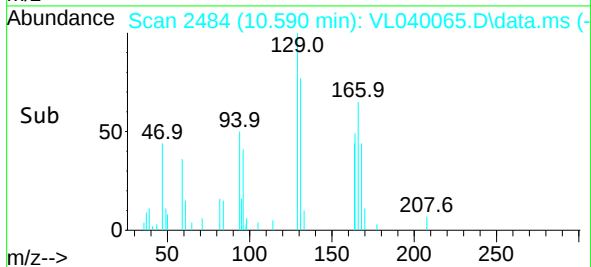
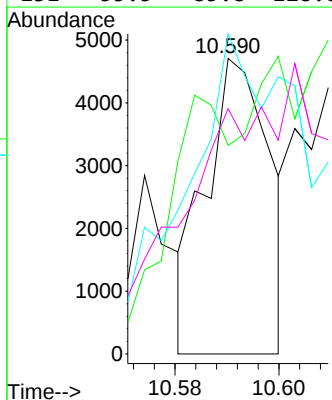
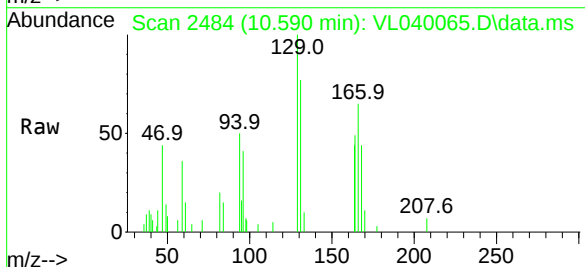
Instrument :
MSVOA_L
ClientSampleId :

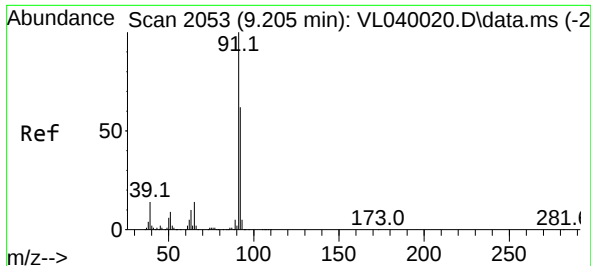
Tgt Ion: 57 Resp: 64755
Ion Ratio Lower Upper
57 100
41 52.6 26.2 39.4#
56 42.6 25.1 37.7#



#52
Tetrachloroethene
Concen: 0.053 ppbv
RT: 10.590 min Scan# 2484
Delta R.T. -0.013 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 164 Resp: 3997
Ion Ratio Lower Upper
164 100
166 8.2 97.4 146.0#
129 91.1 84.3 126.5
131 55.5 85.8 128.8#

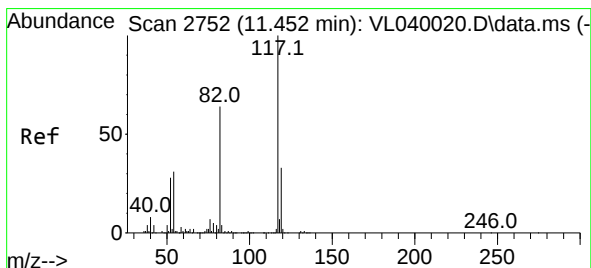
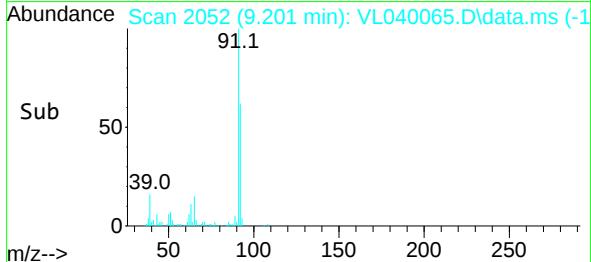
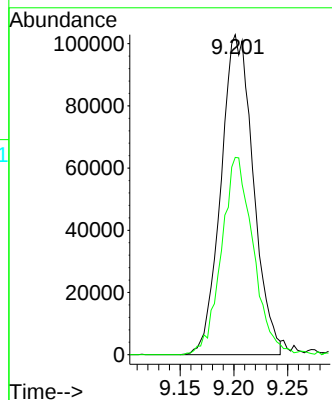
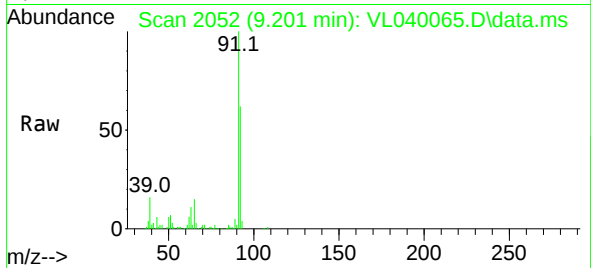




#53
Toluene
Concen: 0.887 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

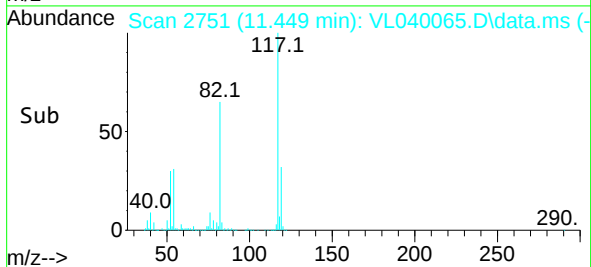
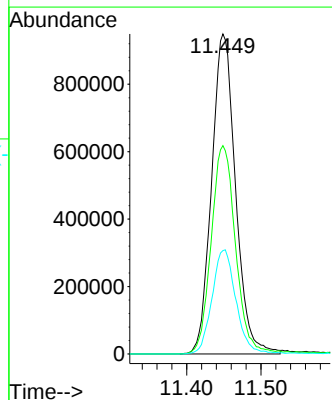
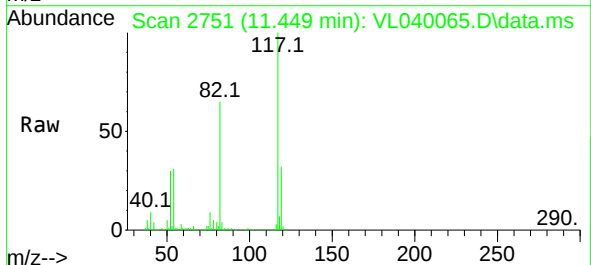
Instrument :
MSVOA_L
ClientSampleId :

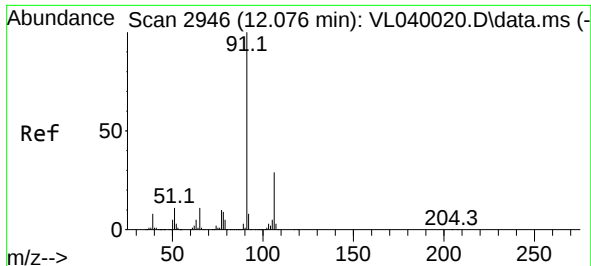
Tgt Ion: 91 Resp: 215980
Ion Ratio Lower Upper
91 100
92 61.0 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 117 Resp: 2124317
Ion Ratio Lower Upper
117 100
82 67.6 51.2 76.8
119 33.0 23.2 34.8

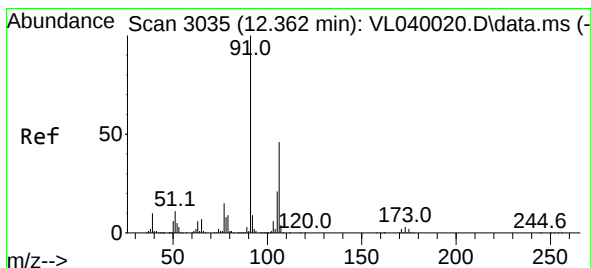
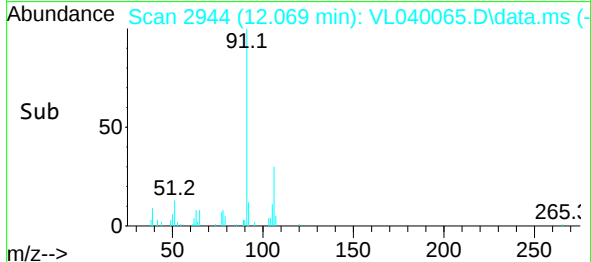
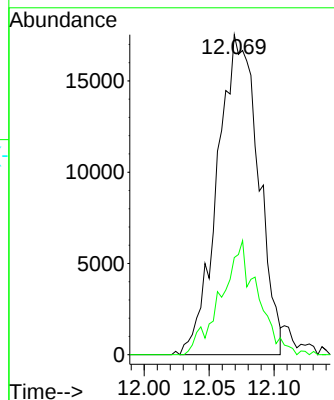
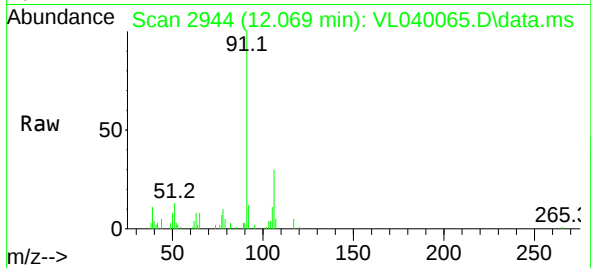




#58
Ethyl Benzene
Concen: 0.127 ppbv
RT: 12.069 min Scan# 2944
Delta R.T. -0.007 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

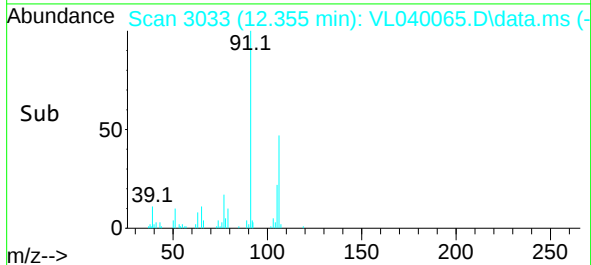
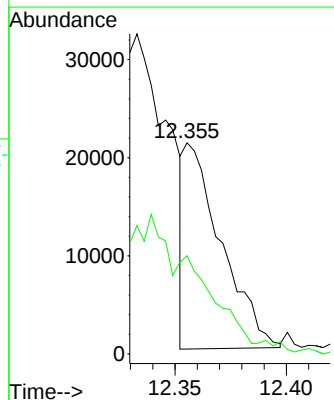
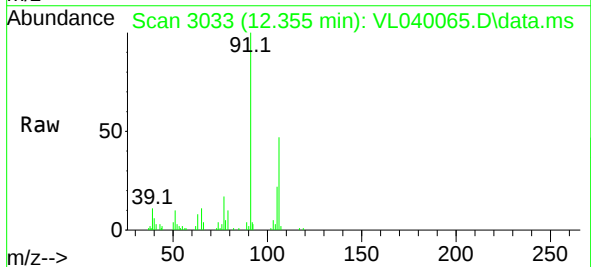
Instrument :
MSVOA_L
ClientSampleId :

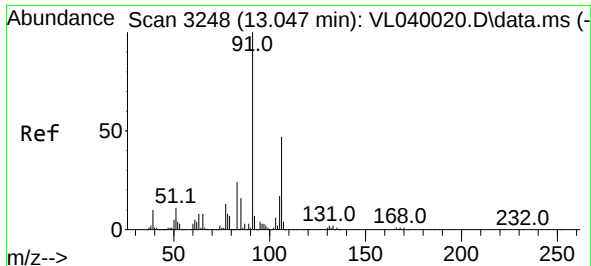
Tgt Ion: 91 Resp: 38421
Ion Ratio Lower Upper
91 100
106 30.3 23.5 35.3



#59
m/p-Xylene
Concen: 0.092 ppbv
RT: 12.355 min Scan# 3033
Delta R.T. -0.007 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 91 Resp: 24118
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

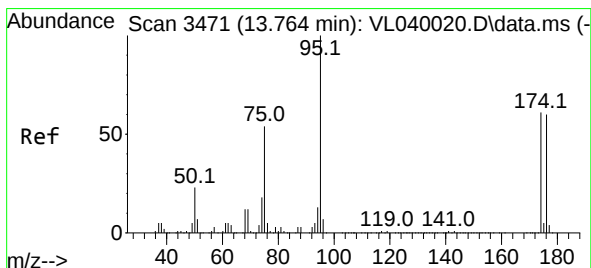
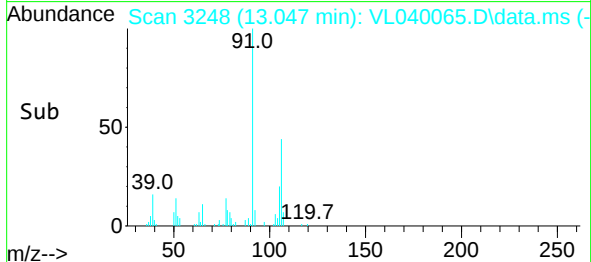
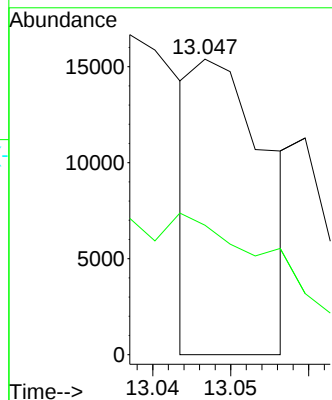
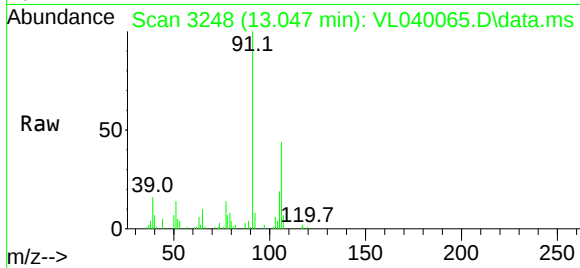




#60
o-Xylene
Concen: 0.039 ppbv
RT: 13.047 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

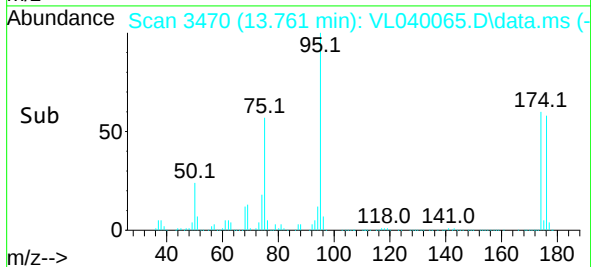
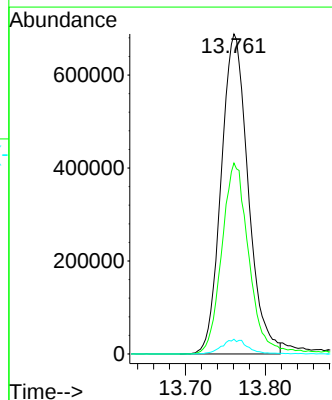
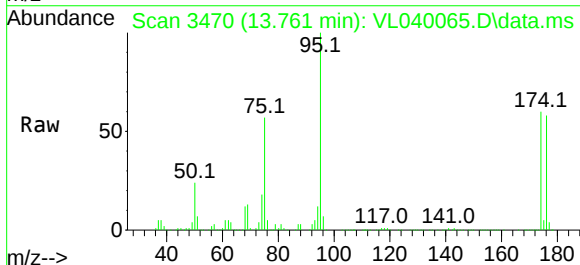
Instrument :
MSVOA_L
ClientSampleId :

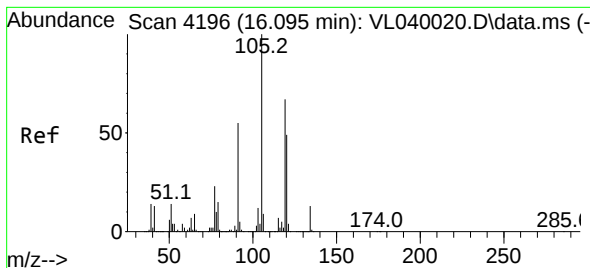
Tgt Ion: 91 Resp: 9912
Ion Ratio Lower Upper
91 100
106 168.0 22.4 67.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.952 ppbv
RT: 13.761 min Scan# 3470
Delta R.T. -0.003 min
Lab File: VL040065.D
Acq: 22 Dec 2022 13:09

Tgt Ion: 95 Resp: 1614969
Ion Ratio Lower Upper
95 100
174 61.1 48.6 73.0
175 4.5 3.4 5.2





#74

1,2,4-Trimethylbenzene

Concen: 0.129 ppbv

RT: 16.098 min Scan# 4196

Delta R.T. 0.003 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 35736

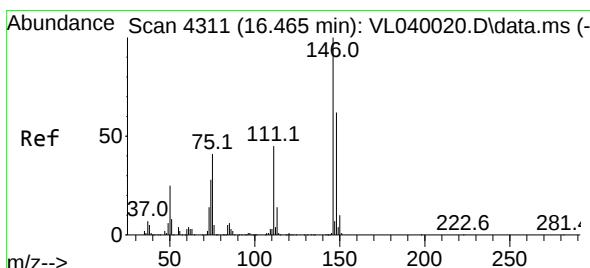
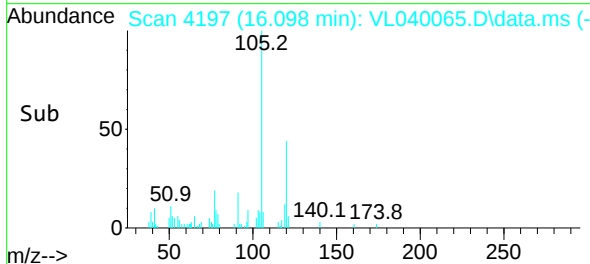
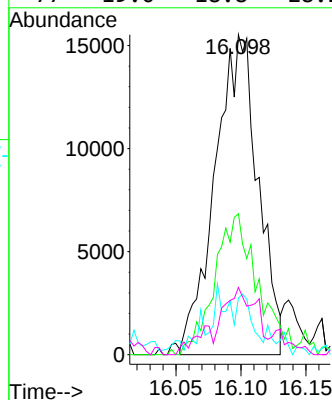
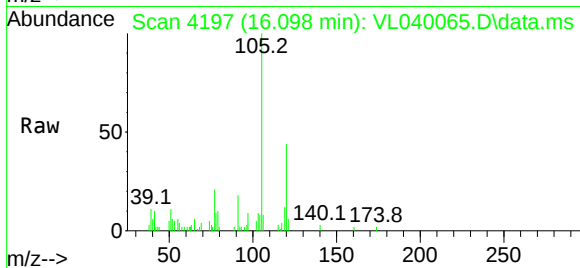
Ion Ratio Lower Upper

105 100

120 44.8 39.3 58.9

91 13.6 44.2 66.4#

77 19.0 18.8 28.2



#76

1,4-Dichlorobenzene

Concen: 0.045 ppbv

RT: 16.461 min Scan# 4310

Delta R.T. -0.003 min

Lab File: VL040065.D

Acq: 22 Dec 2022 13:09

Tgt Ion:146 Resp: 6732

Ion Ratio Lower Upper

146 100

111 126.4 23.4 70.2#

148 0.0 32.0 96.2#

