

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030823\
 Data File : VL040250.D
 Acq On : 8 Mar 2023 12:19
 Operator : SY/MD
 Sample : 01836-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-IA

Quant Time: Mar 09 04:11:10 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 Mar 01 04:21:39 2023
 Response via : Initial Calibration

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

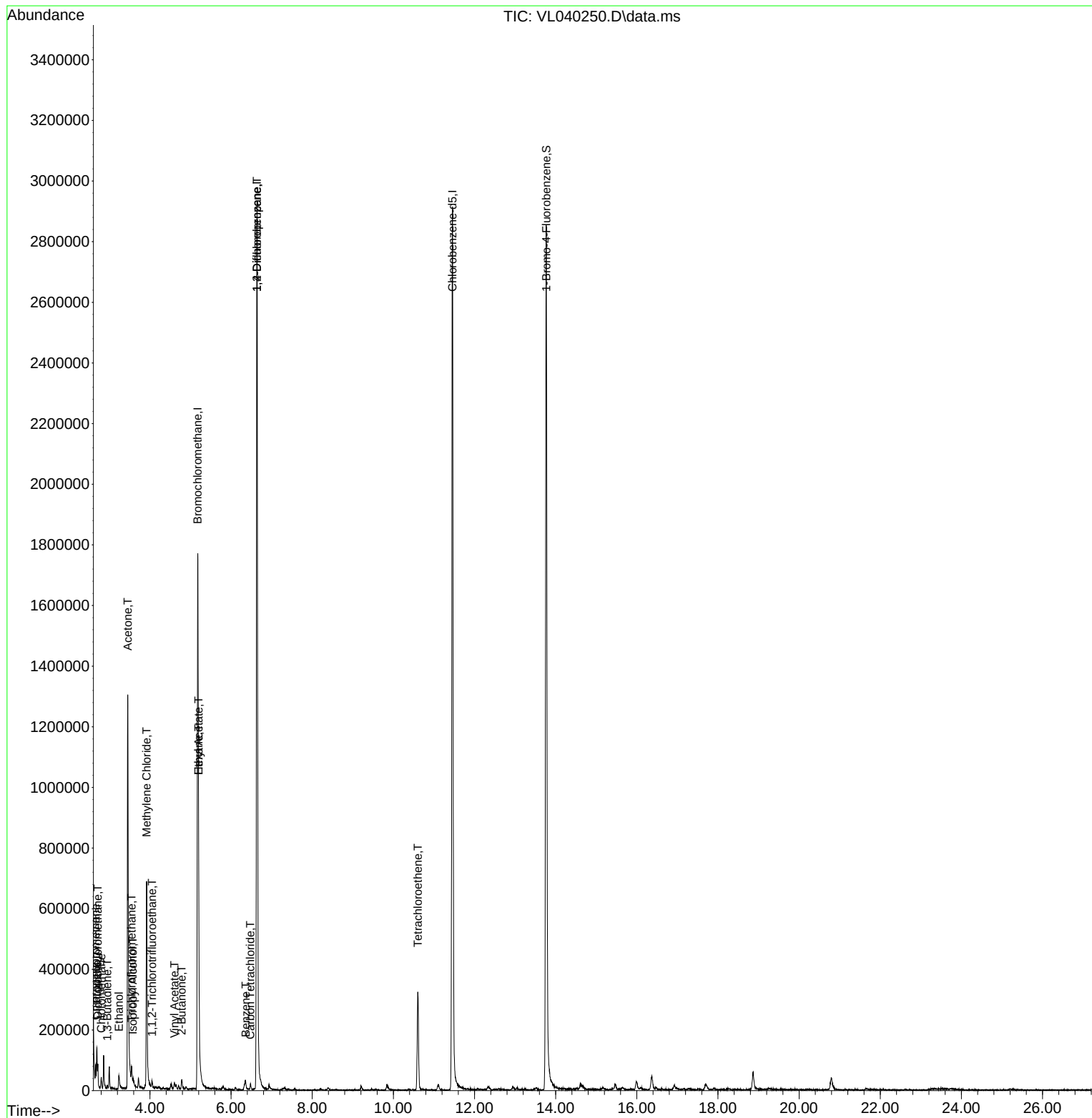
Internal Standards						
1) Bromochloromethane	5.176	49	825023	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2114820	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.455	117	1796786	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1439148	9.740	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	39013	0.254	ppbv	94
3) Chlorodifluoromethane	2.658	51	68559	0.696	ppbv	95
4) Chloromethane	2.803	50	26869	0.434	ppbv	91
9) Propene	2.693	41	23300	0.580	ppbv #	78
11) Trichlorofluoromethane	3.549	101	33228	0.241	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.054	101	7823	0.077	ppbv	99
13) Ethanol	3.234	45	25242	6.825	ppbv #	31
15) Acetone	3.452	43	1421571	14.312	ppbv	99
16) 1,3-Butadiene	2.947	39	3441	0.076	ppbv #	10
19) Isopropyl Alcohol	3.578	45	17111	0.362	ppbv #	90
20) Methylene Chloride	3.919	84	232835	4.503	ppbv	90
23) Vinyl Acetate	4.603	43	23019	0.764	ppbv #	95
25) Ethyl Acetate	5.198	43	111246	0.602	ppbv #	78
26) Hexane	5.198	57	162466	2.050	ppbv #	37
34) 2-Butanone	4.783	43	18563	0.178	ppbv #	53
35) Carbon Tetrachloride	6.475	117	5992	0.048	ppbv #	84
36) Benzene	6.362	78	7281	0.044	ppbv #	87
39) 1,2-Dichloropropane	6.639	63	541157	8.453	ppbv #	25
52) Tetrachloroethene	10.603	164	72006	1.401	ppbv	96

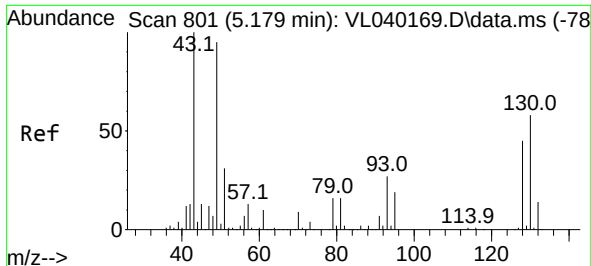
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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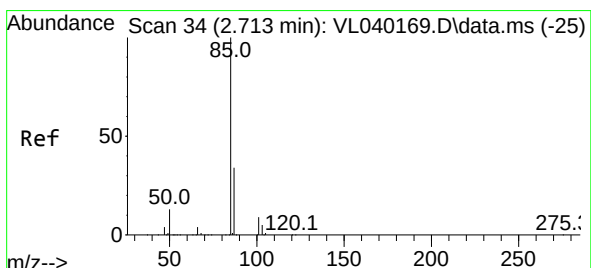
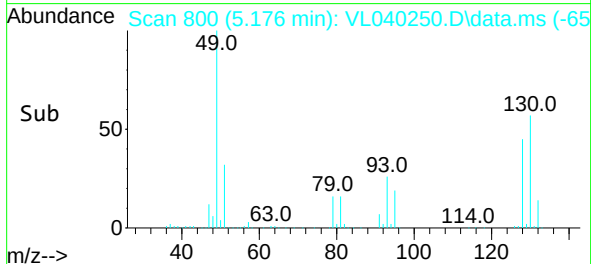
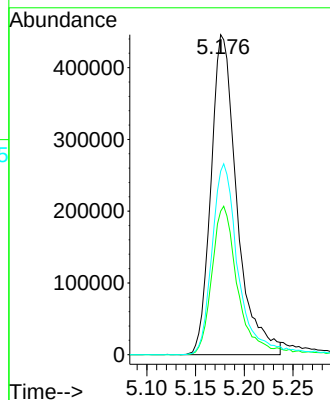
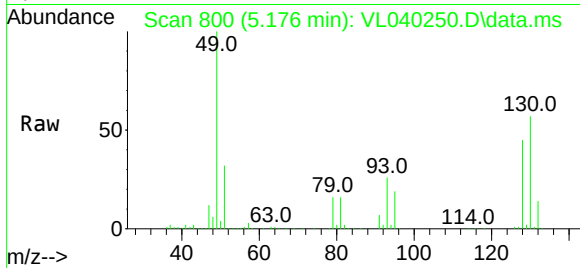




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.025 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

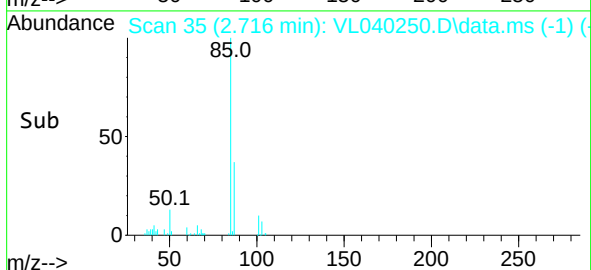
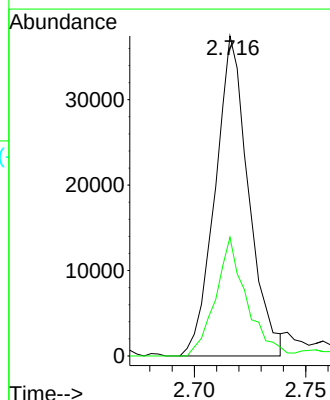
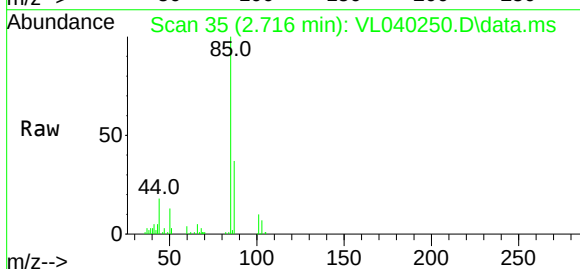
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IA

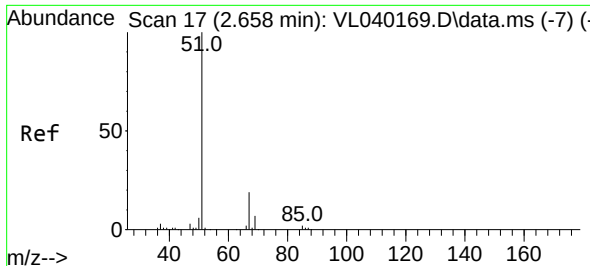
Tgt Ion: 49 Resp: 825023
Ion Ratio Lower Upper
49 100
128 48.0 24.1 72.3
130 61.4 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.254 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.010 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

Tgt Ion: 85 Resp: 39013
Ion Ratio Lower Upper
85 100
87 37.1 27.0 40.6

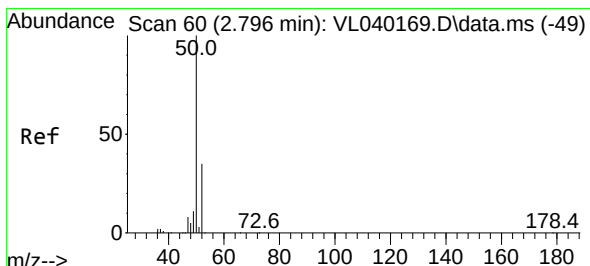
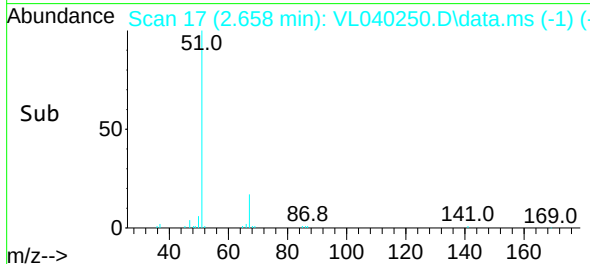
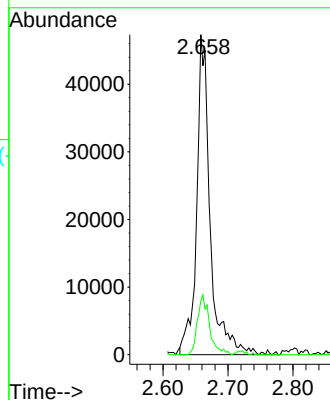
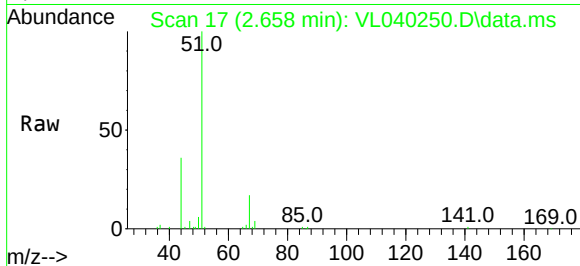




#3
Chlorodifluoromethane
Concen: 0.696 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

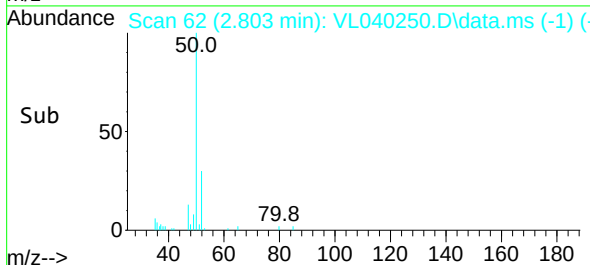
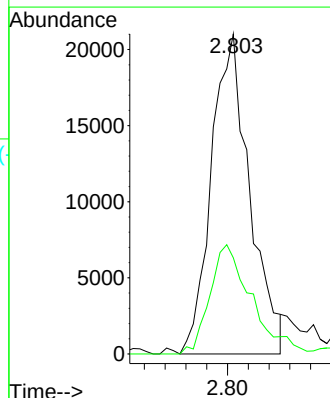
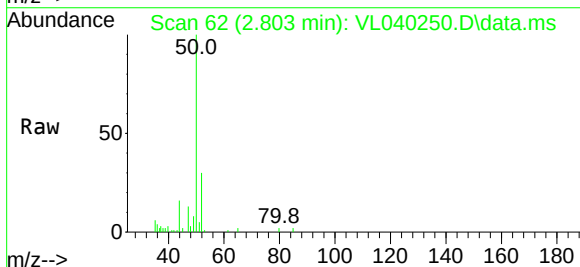
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IA

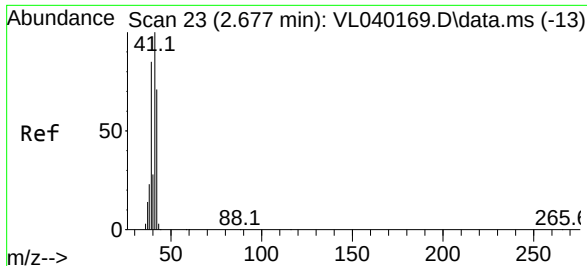
Tgt Ion: 51 Resp: 68559
Ion Ratio Lower Upper
51 100
67 16.8 15.4 23.2



#4
Chloromethane
Concen: 0.434 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.010 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

Tgt Ion: 50 Resp: 26869
Ion Ratio Lower Upper
50 100
52 30.1 28.3 42.5





#9

Propene

Concen: 0.580 ppbv

RT: 2.693 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

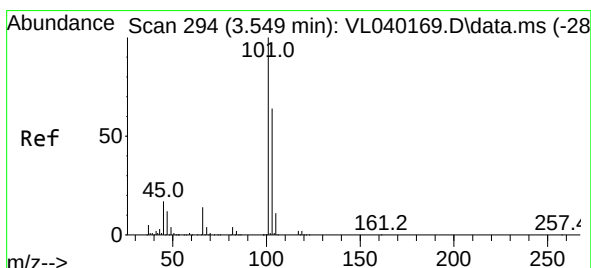
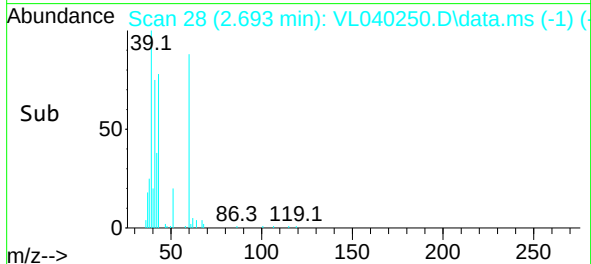
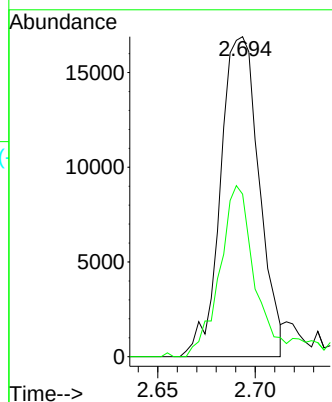
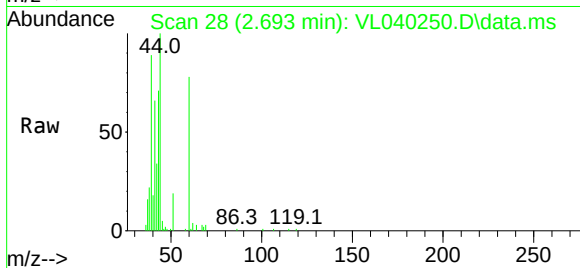
DC-3723-IA

Tgt Ion: 41 Resp: 23300

Ion Ratio Lower Upper

41 100

42 52.8 56.9 85.3#



#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 3.549 min Scan# 294

Delta R.T. -0.016 min

Lab File: VL040250.D

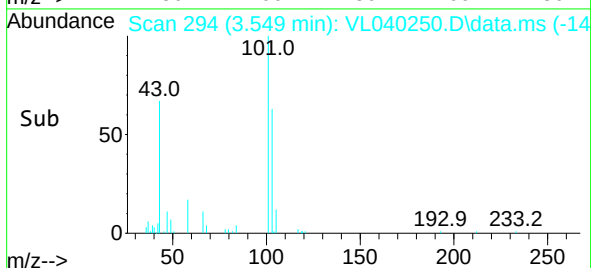
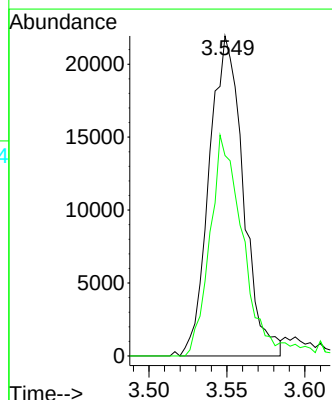
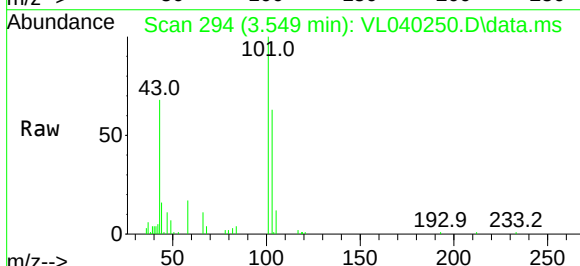
Acq: 8 Mar 2023 12:19

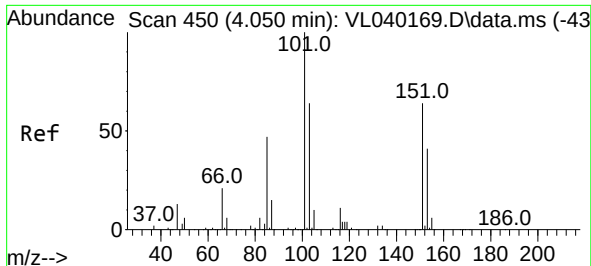
Tgt Ion: 101 Resp: 33228

Ion Ratio Lower Upper

101 100

103 62.7 51.0 76.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.077 ppbv

RT: 4.054 min Scan# 41

Delta R.T. -0.016 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

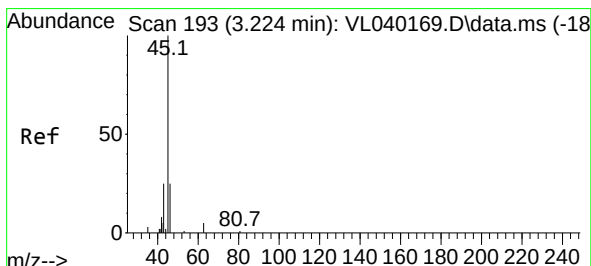
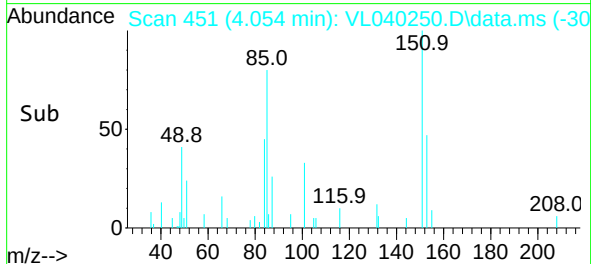
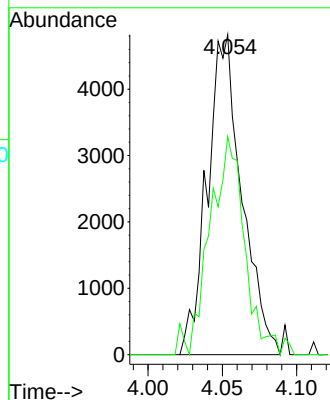
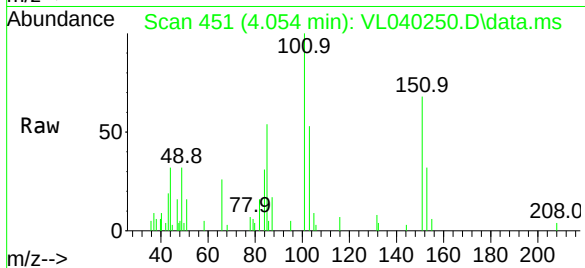
DC-3723-IA

Tgt Ion:101 Resp: 7823

Ion Ratio Lower Upper

101 100

151 69.1 54.7 82.1



#13

Ethanol

Concen: 6.825 ppbv

RT: 3.234 min Scan# 196

Delta R.T. -0.013 min

Lab File: VL040250.D

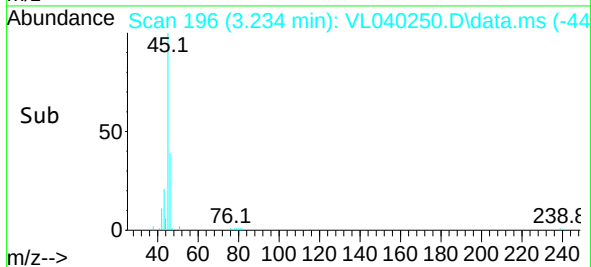
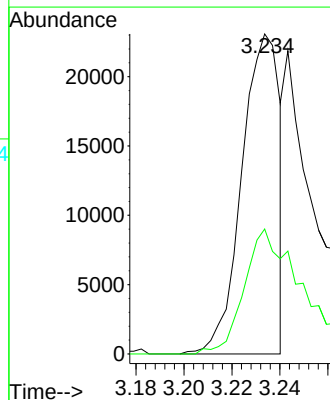
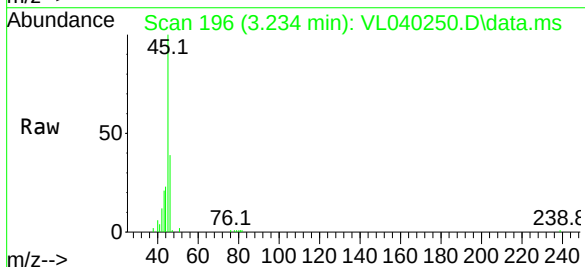
Acq: 8 Mar 2023 12:19

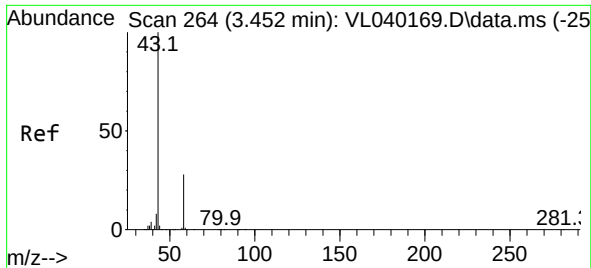
Tgt Ion: 45 Resp: 25242

Ion Ratio Lower Upper

45 100

46 72.1 13.3 53.1#

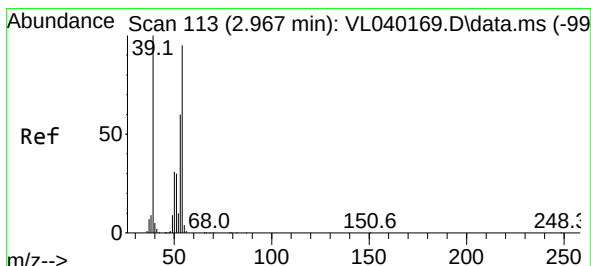
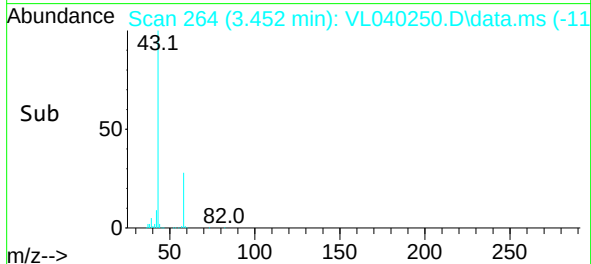
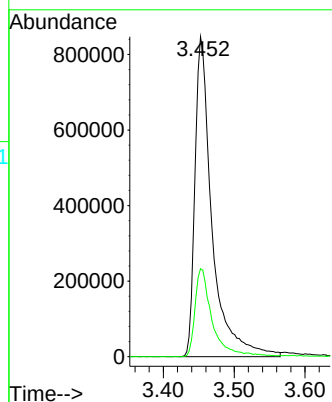
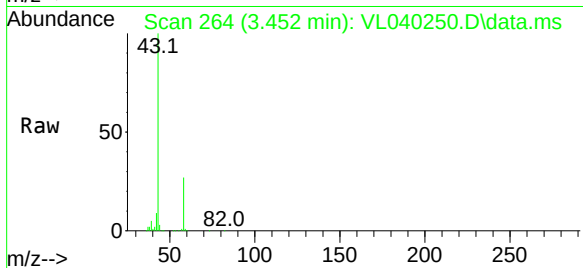




#15
Acetone
Concen: 14.312 ppbv
RT: 3.452 min Scan# 20
Delta R.T. -0.016 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

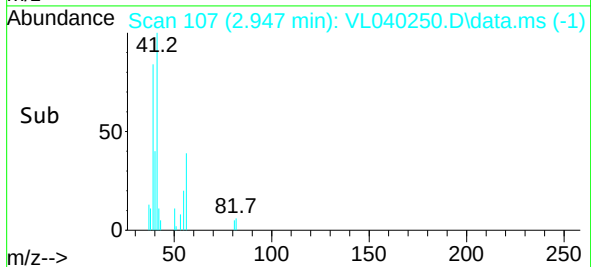
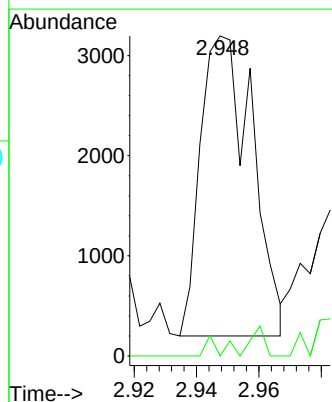
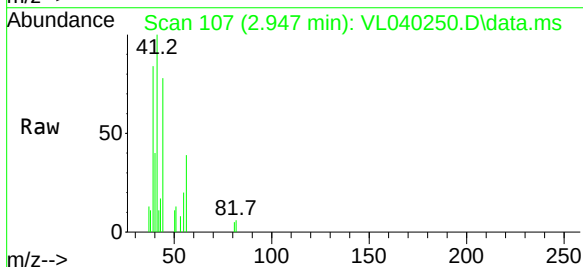
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IA

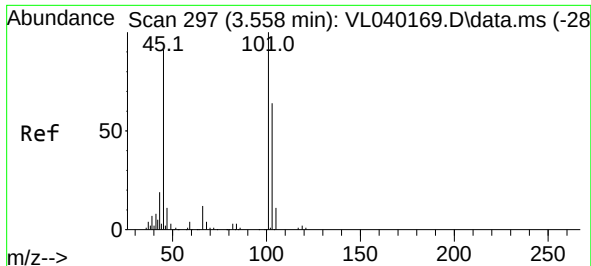
Tgt Ion: 43 Resp: 1421571
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6



#16
1,3-Butadiene
Concen: 0.076 ppbv
RT: 2.947 min Scan# 107
Delta R.T. -0.035 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

Tgt Ion: 39 Resp: 3441
Ion Ratio Lower Upper
39 100
54 2.0 66.7 100.1#





#19

Isopropyl Alcohol

Concen: 0.362 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.003 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

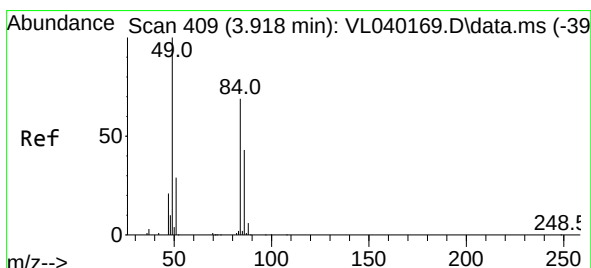
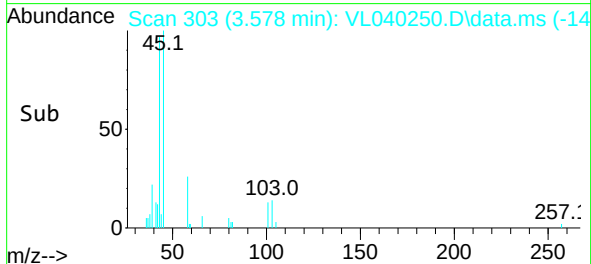
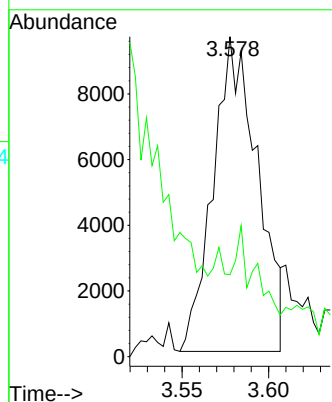
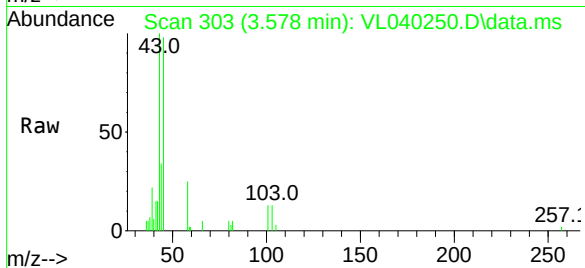
DC-3723-IA

Tgt Ion: 45 Resp: 17111

Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#



#20

Methylene Chloride

Concen: 4.503 ppbv

RT: 3.919 min Scan# 409

Delta R.T. -0.016 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

Tgt Ion: 84 Resp: 232835

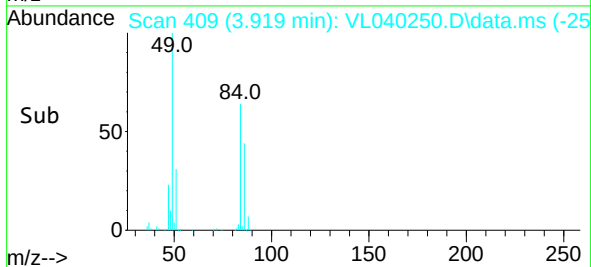
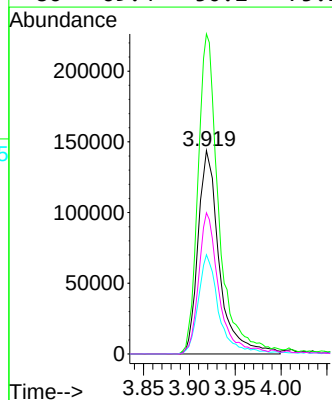
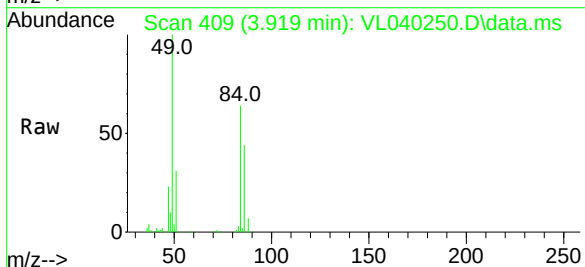
Ion Ratio Lower Upper

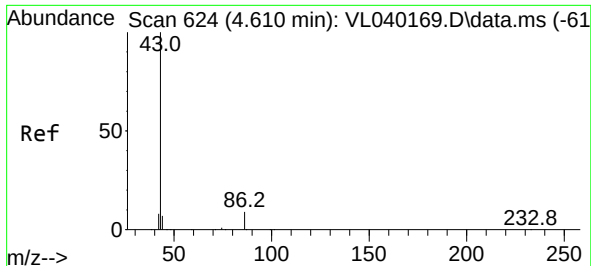
84 100

49 157.0 115.5 173.3

51 48.5 33.1 49.7

86 69.4 50.2 75.2

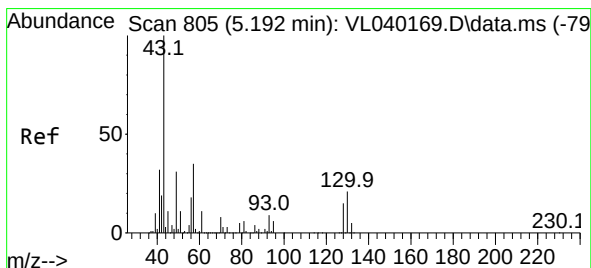
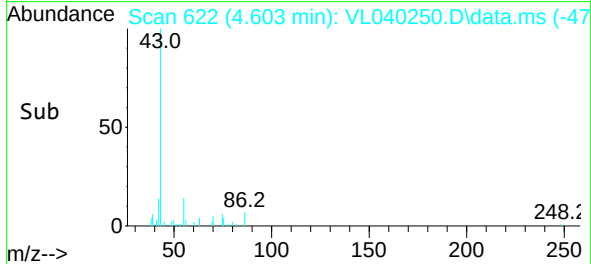
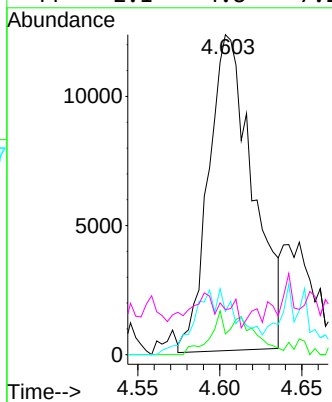
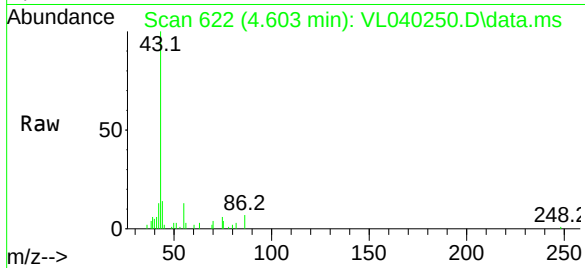




#23
 Vinyl Acetate
 Concen: 0.764 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. -0.029 min
 Lab File: VL040250.D
 Acq: 8 Mar 2023 12:19

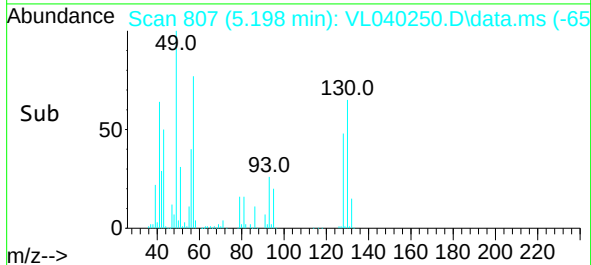
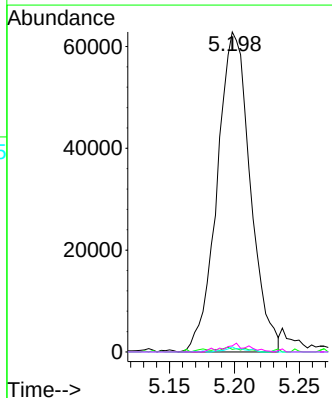
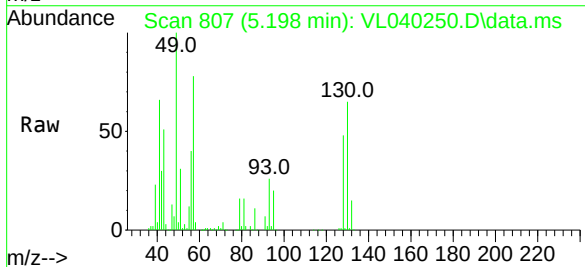
Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-IA

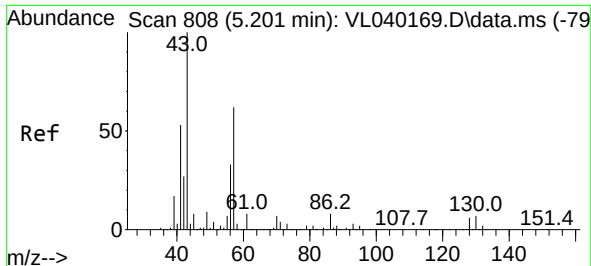
Tgt Ion:	43	Resp:	23019
Ion	Ratio	Lower	Upper
43	100		
86	6.7	5.6	8.4
42	10.9	7.6	11.4
44	2.1	4.8	7.2



#25
 Ethyl Acetate
 Concen: 0.602 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.013 min
 Lab File: VL040250.D
 Acq: 8 Mar 2023 12:19

Tgt Ion:	43	Resp:	111246
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.3	12.5
61	1.0	8.4	12.6
70	2.1	6.1	9.1

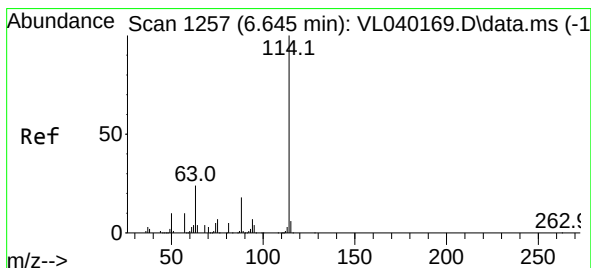
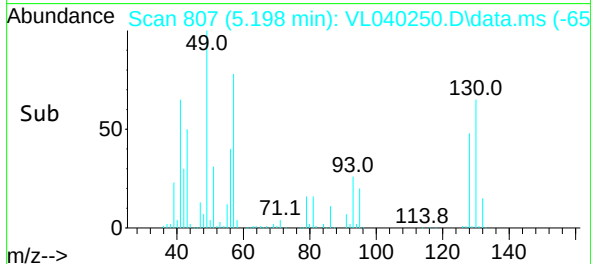
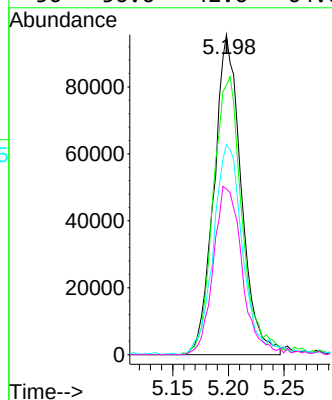
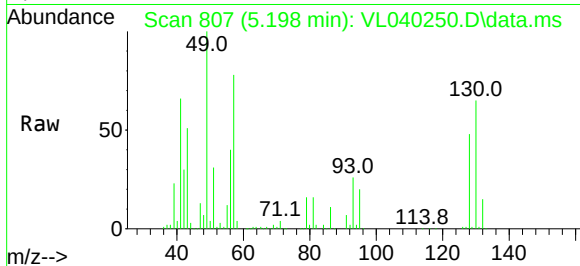




#26
Hexane
Concen: 2.050 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

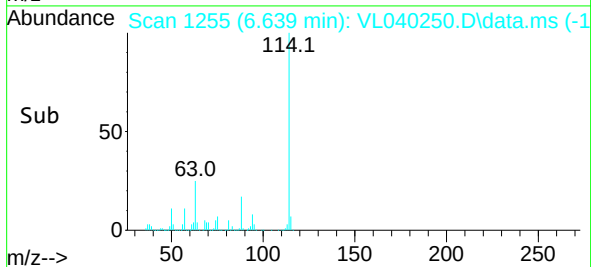
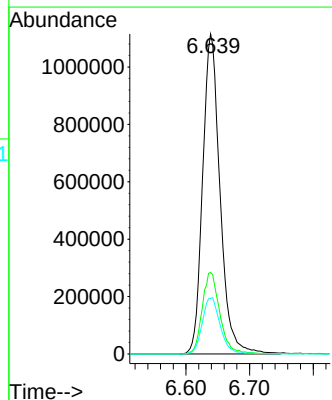
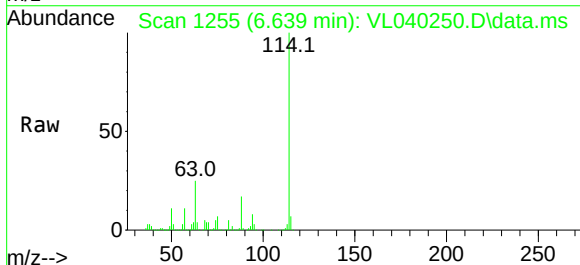
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IA

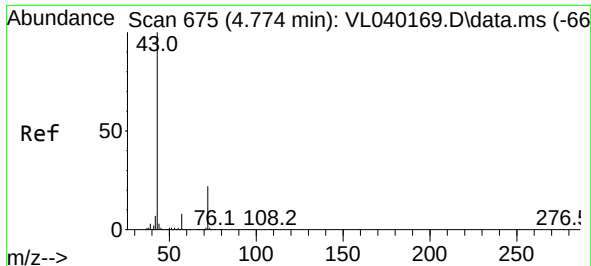
Tgt Ion: 57 Resp: 162466
Ion Ratio Lower Upper
57 100
41 93.9 74.3 111.5
43 70.4 193.0 289.4#
56 56.6 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

Tgt Ion: 114 Resp: 2114820
Ion Ratio Lower Upper
114 100
63 26.1 20.4 30.6
88 18.3 14.3 21.5

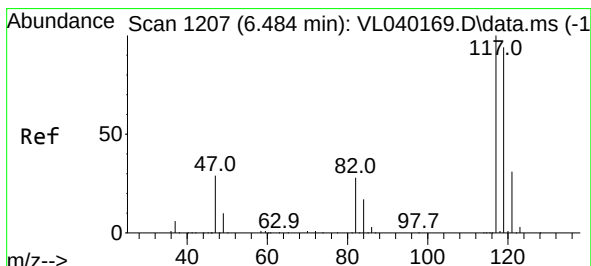
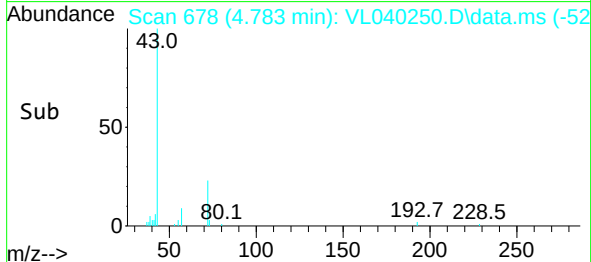
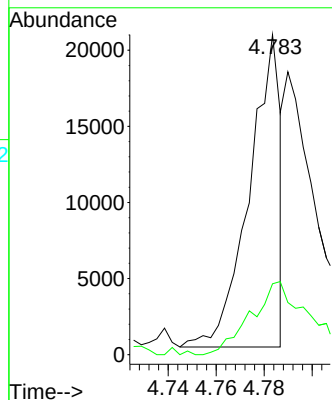
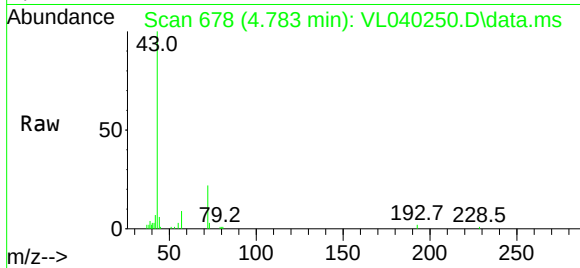




#34
2-Butanone
Concen: 0.178 ppbv
RT: 4.783 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

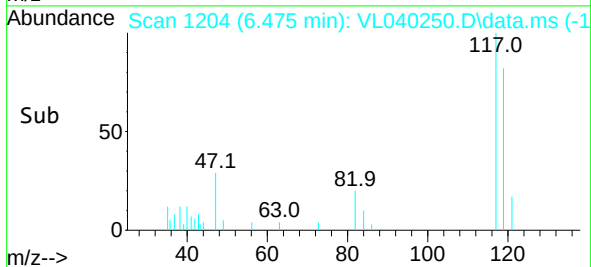
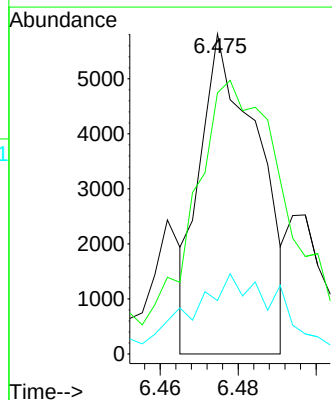
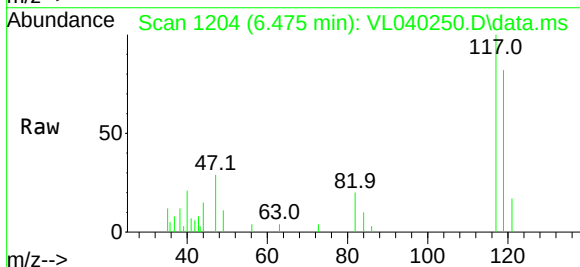
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IA

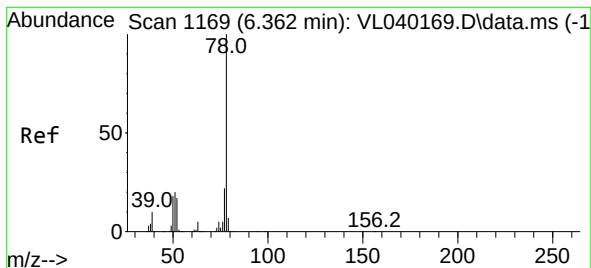
Tgt Ion: 43 Resp: 18563
Ion Ratio Lower Upper
43 100
72 0.0 17.8 26.8#



#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 6.475 min Scan# 1204
Delta R.T. -0.032 min
Lab File: VL040250.D
Acq: 8 Mar 2023 12:19

Tgt Ion: 117 Resp: 5992
Ion Ratio Lower Upper
117 100
119 88.8 75.0 112.6
121 3.5 25.0 37.4#





#36

Benzene

Concen: 0.044 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. -0.022 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

DC-3723-IA

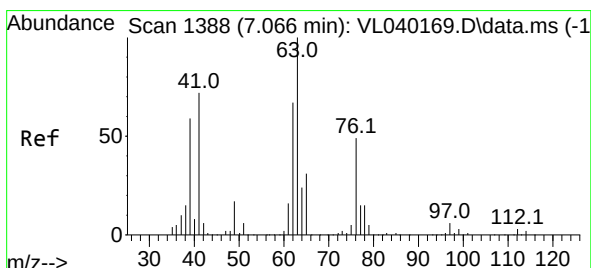
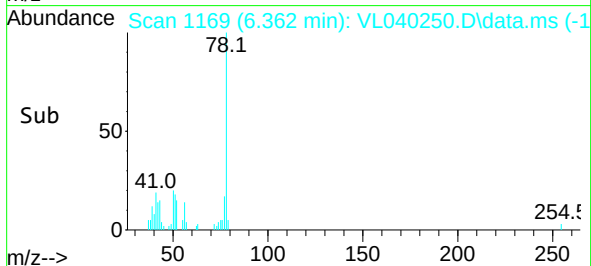
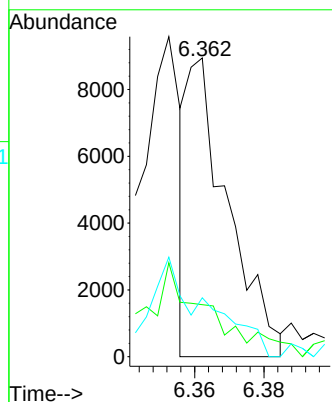
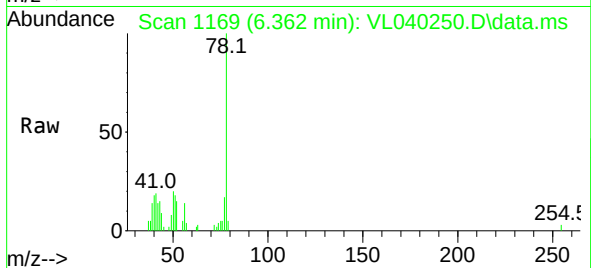
Tgt Ion: 78 Resp: 7281

Ion Ratio Lower Upper

78 100

77 13.6 17.5 26.3#

50 21.3 14.6 22.0



#39

1,2-Dichloropropane

Concen: 8.453 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.447 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

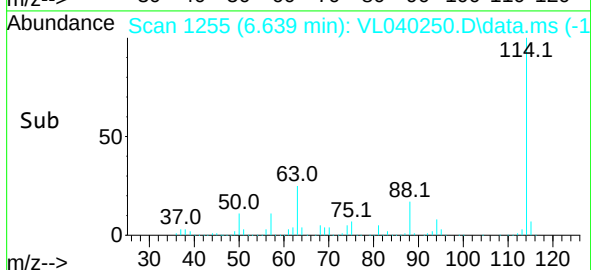
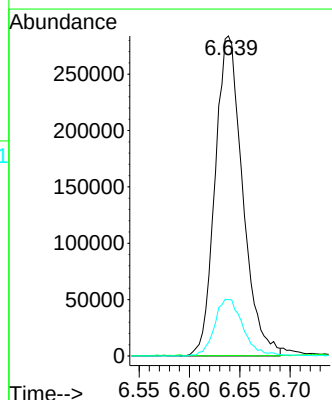
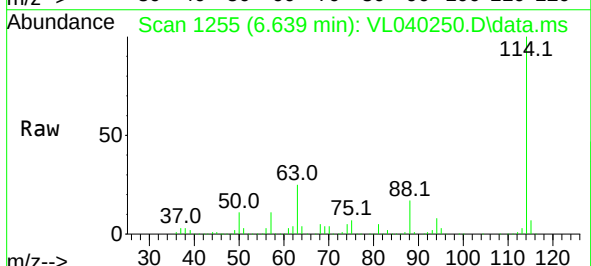
Tgt Ion: 63 Resp: 541157

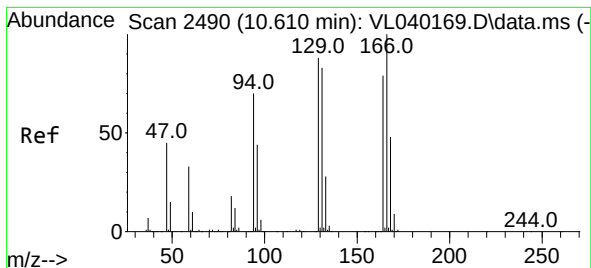
Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 17.6 54.0 81.0#





#52

Tetrachloroethene

Concen: 1.401 ppbv

RT: 10.603 min Scan# 2490

Delta R.T. -0.032 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

DC-3723-IA

Tgt Ion:164 Resp: 72006

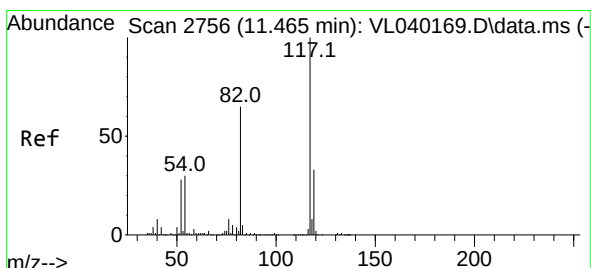
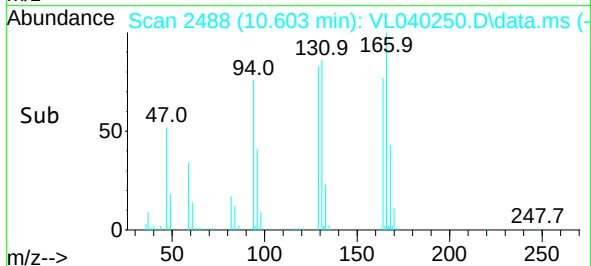
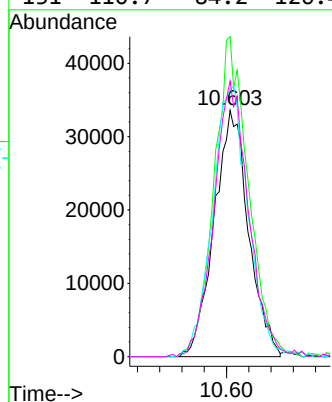
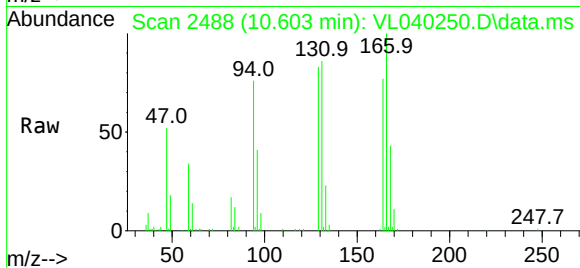
Ion Ratio Lower Upper

164 100

166 129.3 101.5 152.3

129 107.5 89.0 133.4

131 110.7 84.2 126.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. -0.032 min

Lab File: VL040250.D

Acq: 8 Mar 2023 12:19

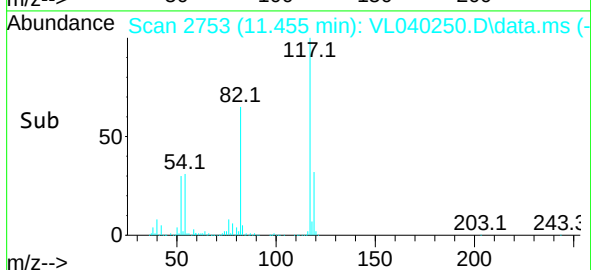
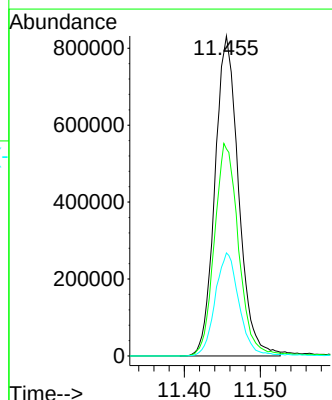
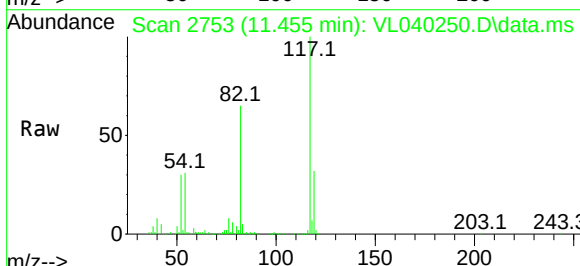
Tgt Ion:117 Resp: 1796786

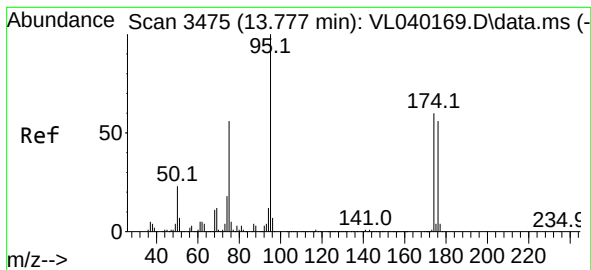
Ion Ratio Lower Upper

117 100

82 68.6 53.3 79.9

119 32.8 24.6 37.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.740 ppbv

RT: 13.767 min Scan# 34

Delta R.T. -0.029 min

Lab File: VL040250.D

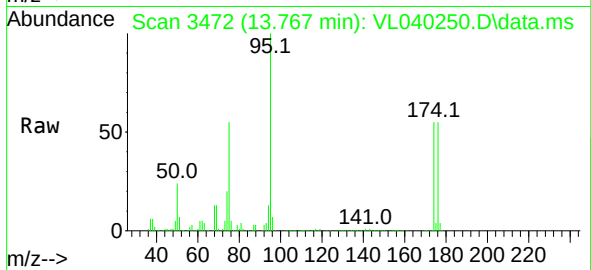
Acq: 8 Mar 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

DC-3723-IA



Tgt Ion: 95 Resp: 1439148

Ion Ratio Lower Upper

95 100

174 58.3 48.2 72.2

175 4.1 3.4 5.2

