

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030823\
 Data File : VL040251.D
 Acq On : 8 Mar 2023 13:00
 Operator : SY/MD
 Sample : 01836-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-IADUP

Quant Time: Mar 09 04:11:37 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

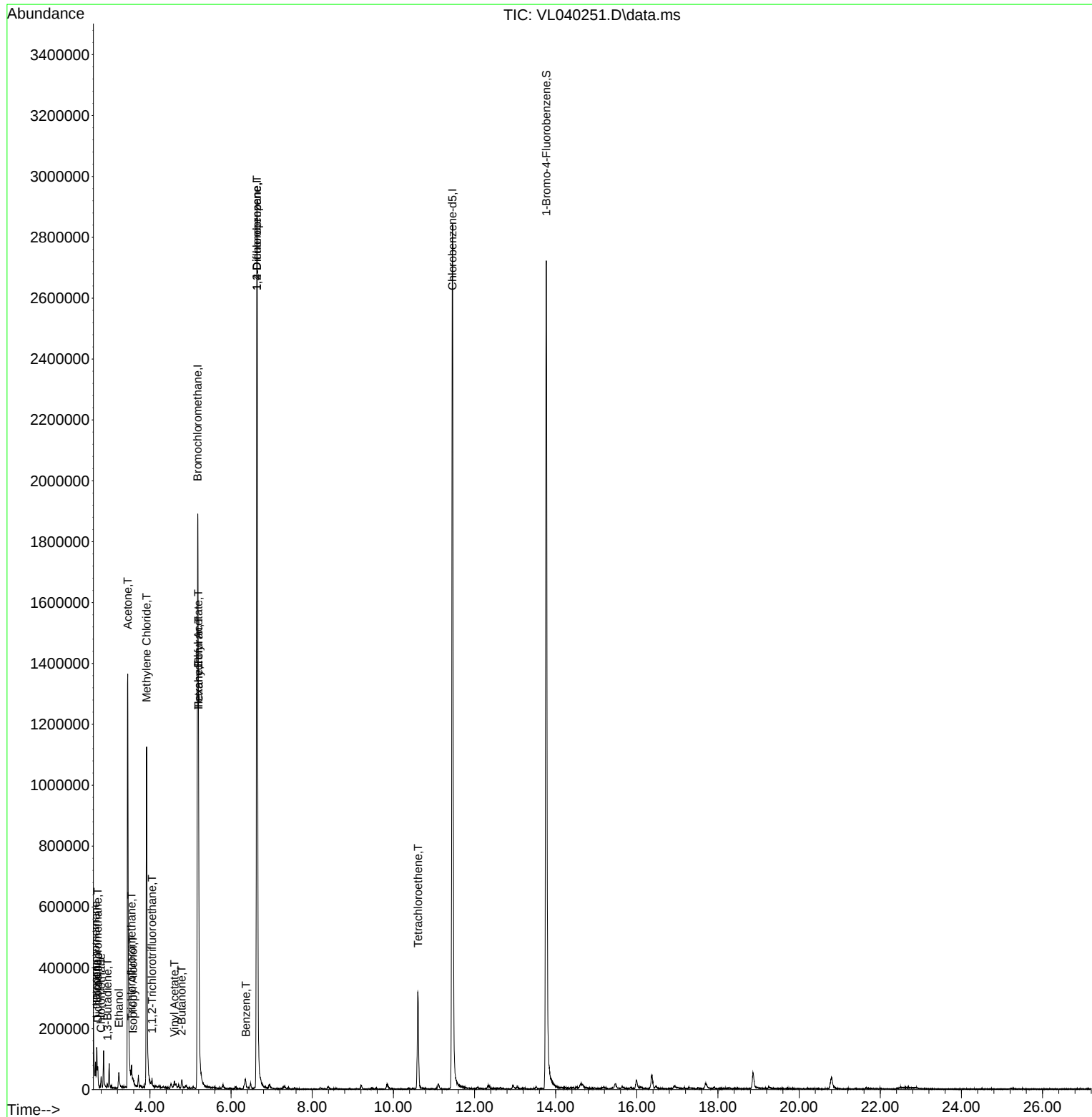
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

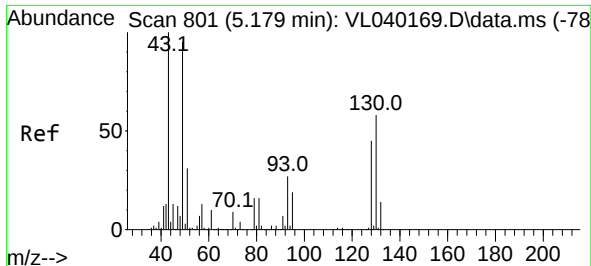
Internal Standards						
1) Bromochloromethane	5.176	49	859787	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2123144	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.455	117	1761738	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1391245	9.604	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	37698	0.235	ppbv	96
3) Chlorodifluoromethane	2.658	51	64960	0.632	ppbv	95
4) Chloromethane	2.796	50	26399	0.409	ppbv	90
9) Propene	2.687	41	22669	0.541	ppbv #	79
11) Trichlorofluoromethane	3.546	101	32618	0.227	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.050	101	4389	0.041	ppbv #	35
13) Ethanol	3.234	45	51477	13.356	ppbv	87
15) Acetone	3.452	43	1451469	14.022	ppbv	99
16) 1,3-Butadiene	2.954	39	2203	0.047	ppbv #	28
19) Isopropyl Alcohol	3.581	45	17134	0.348	ppbv #	90
20) Methylene Chloride	3.919	84	392373	7.281	ppbv	96
23) Vinyl Acetate	4.607	43	3702	0.118	ppbv #	79
25) Ethyl Acetate	5.195	43	170186	0.884	ppbv #	77
26) Hexane	5.198	57	237561	2.876	ppbv #	38
34) 2-Butanone	4.783	43	35398	0.338	ppbv	96
36) Benzene	6.365	78	6661	0.040	ppbv	94
39) 1,2-Dichloropropane	6.639	63	543681	8.459	ppbv #	26
41) Tetrahydrofuran	5.198	42	92024	1.516	ppbv #	48
52) Tetrachloroethene	10.606	164	70156	1.360	ppbv	97

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

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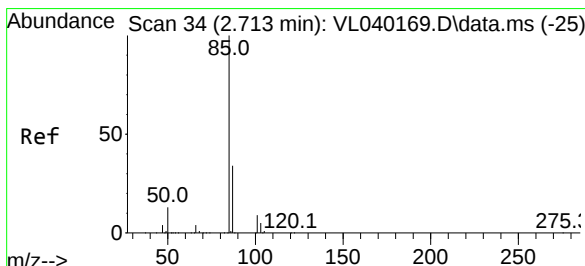
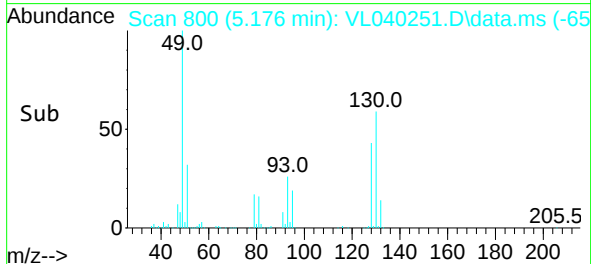
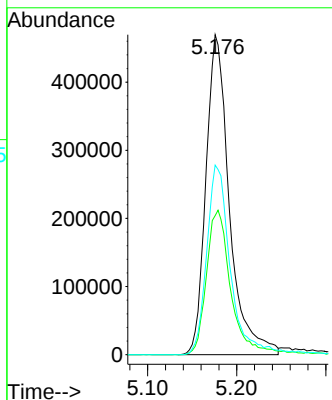
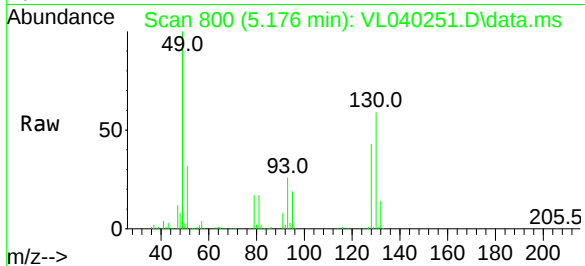




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.025 min
 Lab File: VL040251.D
 Acq: 8 Mar 2023 13:00

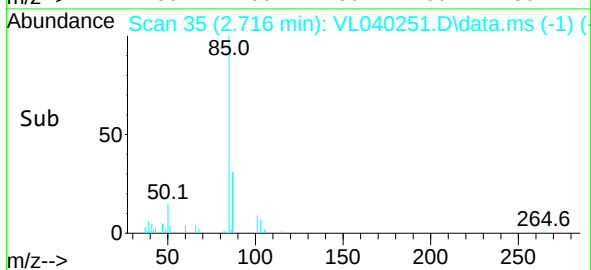
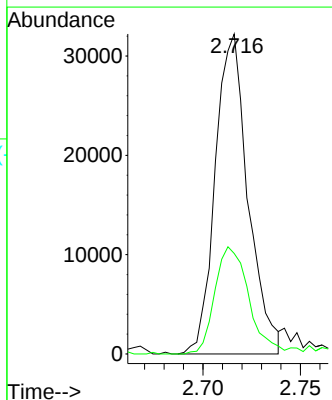
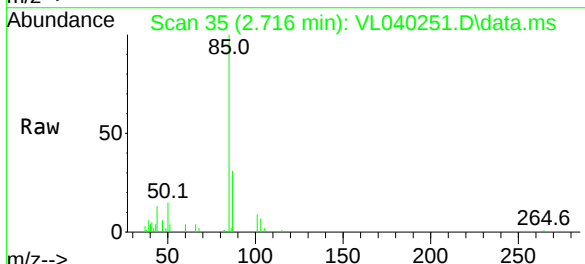
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 DC-3723-IADUP

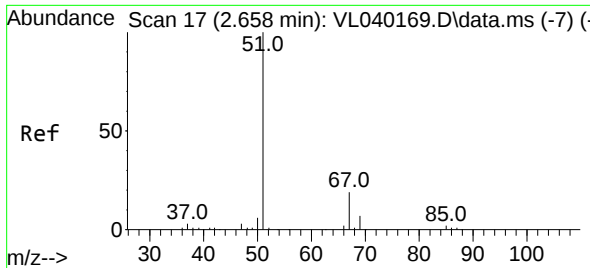
Tgt Ion: 49 Resp: 859787
 Ion Ratio Lower Upper
 49 100
 128 48.3 24.1 72.3
 130 60.7 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.235 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. -0.010 min
 Lab File: VL040251.D
 Acq: 8 Mar 2023 13:00

Tgt Ion: 85 Resp: 37698
 Ion Ratio Lower Upper
 85 100
 87 31.4 27.0 40.6

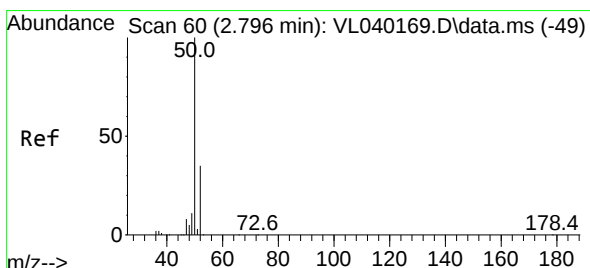
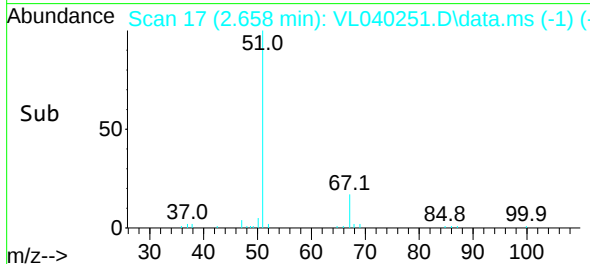
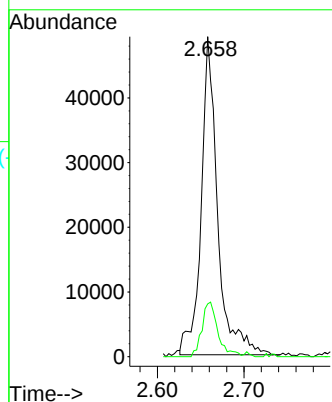
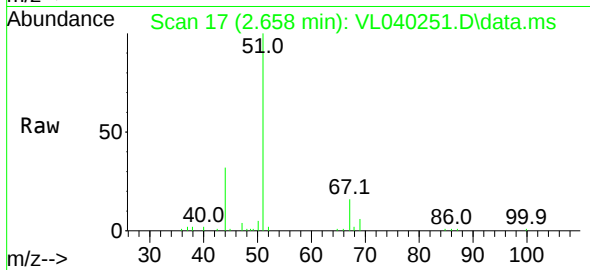




#3
Chlorodifluoromethane
Concen: 0.632 ppbv
RT: 2.658 min Scan# 17
Delta R.T. -0.013 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

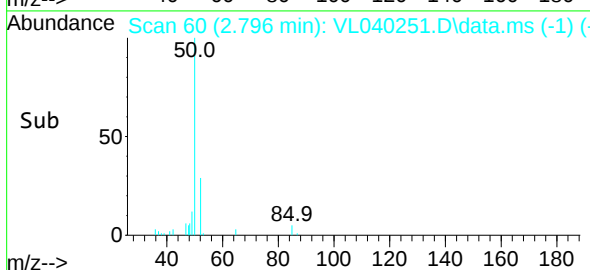
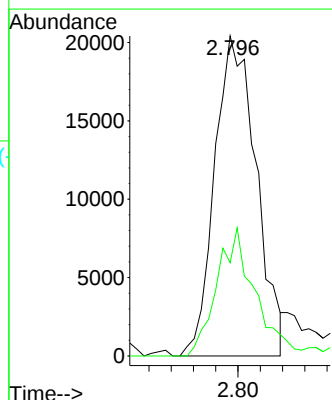
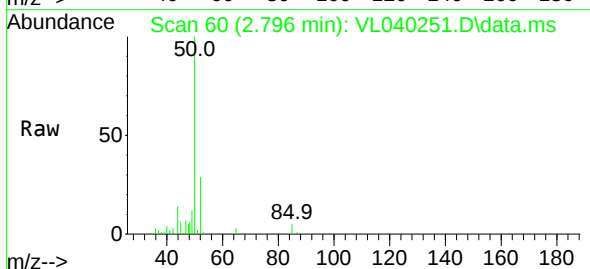
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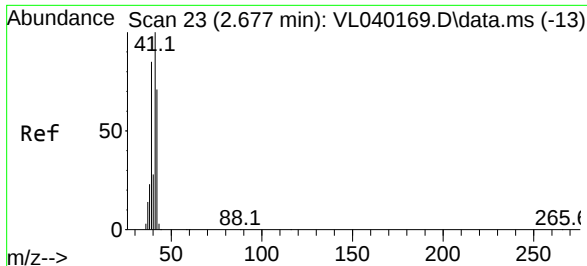
Tgt Ion: 51 Resp: 64960
Ion Ratio Lower Upper
51 100
67 17.1 15.4 23.2



#4
Chloromethane
Concen: 0.409 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.016 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

Tgt Ion: 50 Resp: 26399
Ion Ratio Lower Upper
50 100
52 29.6 28.3 42.5

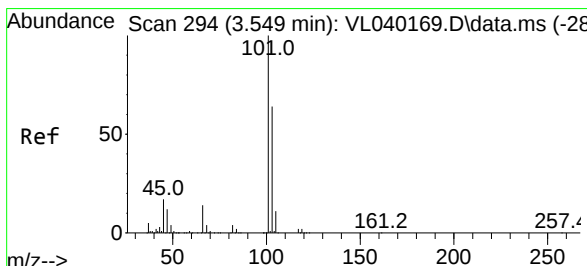
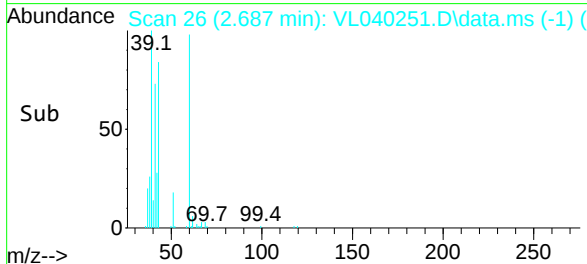
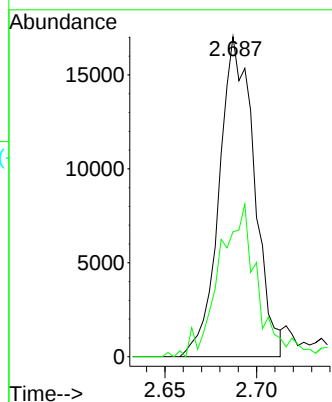
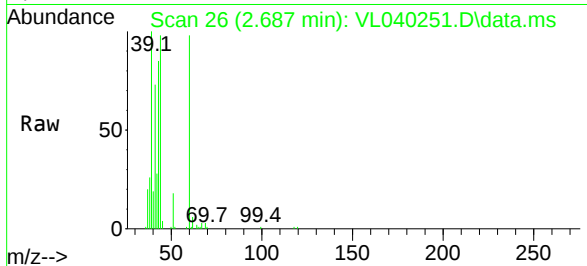




#9
 Propene
 Concen: 0.541 ppbv
 RT: 2.687 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: VL040251.D
 Acq: 8 Mar 2023 13:00

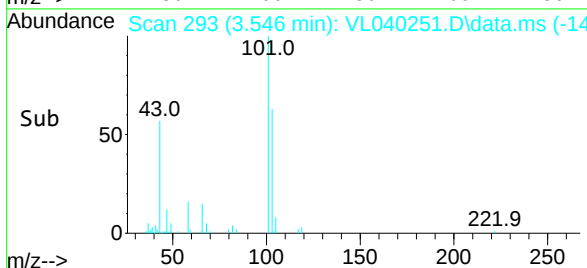
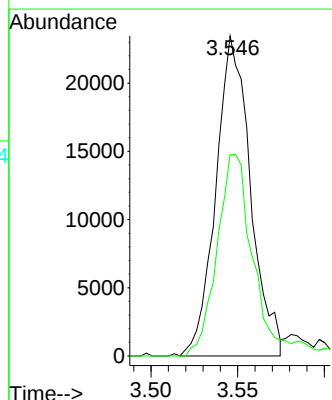
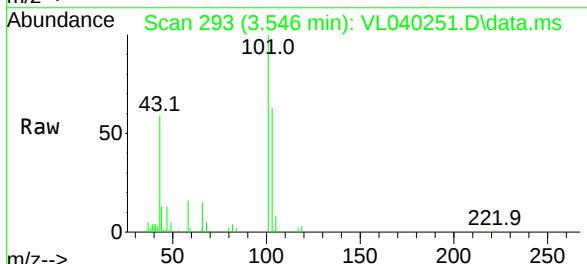
Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-IADUP

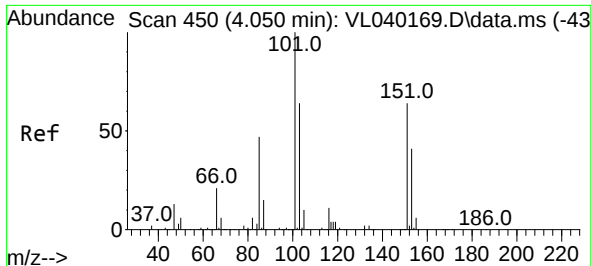
Tgt Ion: 41 Resp: 22669
 Ion Ratio Lower Upper
 41 100
 42 53.7 56.9 85.3#



#11
 Trichlorofluoromethane
 Concen: 0.227 ppbv
 RT: 3.546 min Scan# 293
 Delta R.T. -0.019 min
 Lab File: VL040251.D
 Acq: 8 Mar 2023 13:00

Tgt Ion: 101 Resp: 32618
 Ion Ratio Lower Upper
 101 100
 103 62.9 51.0 76.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.041 ppbv

RT: 4.050 min Scan# 41

Delta R.T. -0.019 min

Lab File: VL040251.D

Acq: 8 Mar 2023 13:00

Instrument :

MSVOA_L

ClientSampleId :

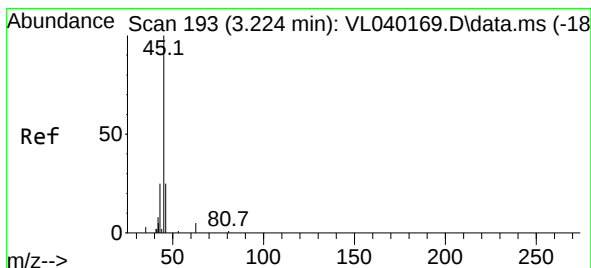
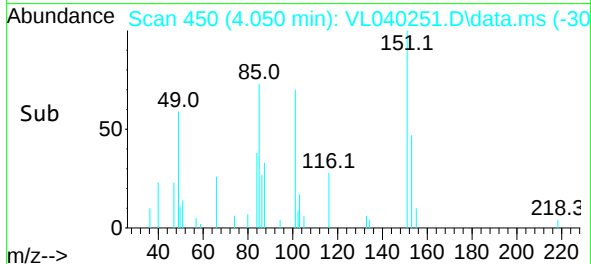
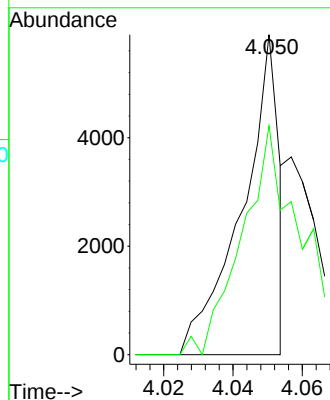
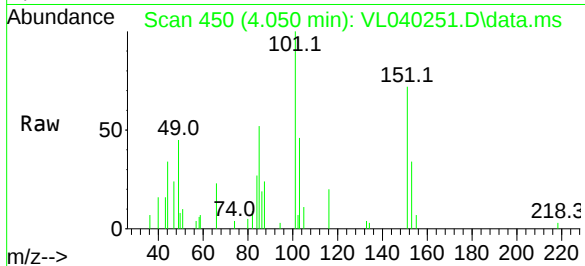
DC-3723-IADUP

Tgt Ion:101 Resp: 4389

Ion Ratio Lower Upper

101 100

151 121.3 54.7 82.1#



#13

Ethanol

Concen: 13.356 ppbv

RT: 3.234 min Scan# 196

Delta R.T. -0.013 min

Lab File: VL040251.D

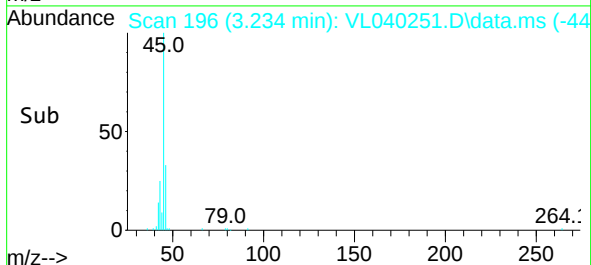
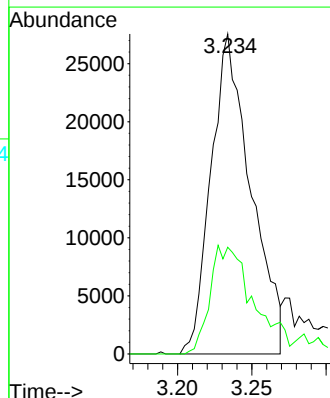
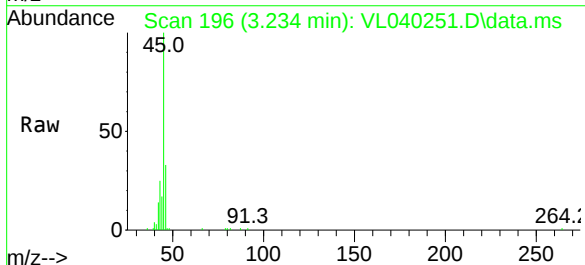
Acq: 8 Mar 2023 13:00

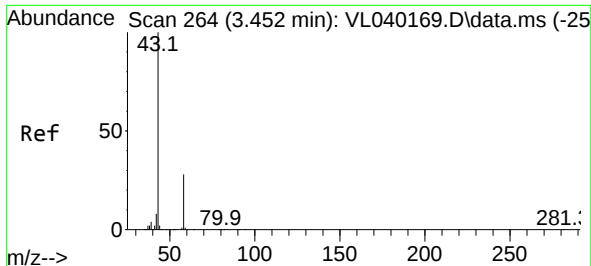
Tgt Ion: 45 Resp: 51477

Ion Ratio Lower Upper

45 100

46 40.4 13.3 53.1





#15

Acetone

Concen: 14.022 ppbv

RT: 3.452 min Scan# 2

Delta R.T. -0.016 min

Lab File: VL040251.D

Acq: 8 Mar 2023 13:00

Instrument :

MSVOA_L

ClientSampleId :

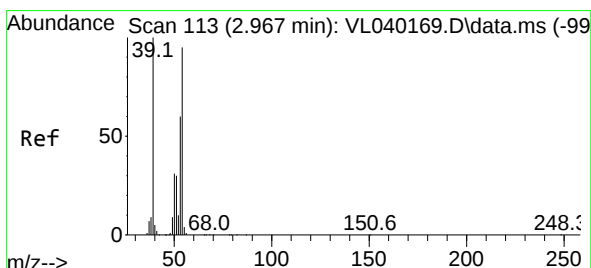
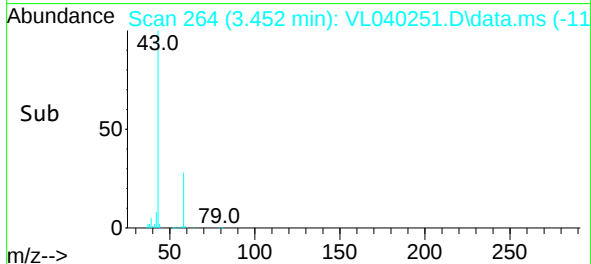
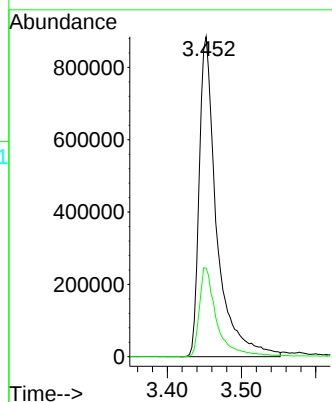
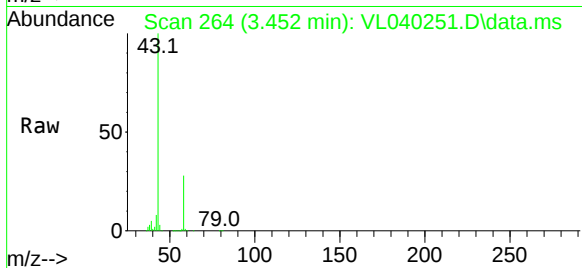
DC-3723-IADUP

Tgt Ion: 43 Resp: 1451469

Ion Ratio Lower Upper

43 100

58 28.4 22.4 33.6



#16

1,3-Butadiene

Concen: 0.047 ppbv

RT: 2.954 min Scan# 109

Delta R.T. -0.029 min

Lab File: VL040251.D

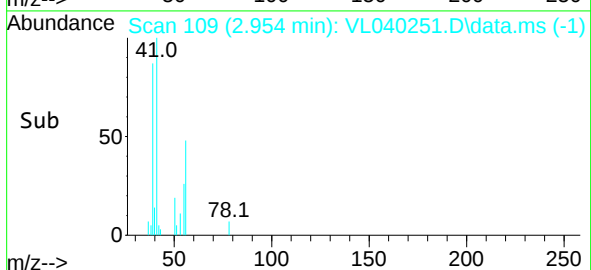
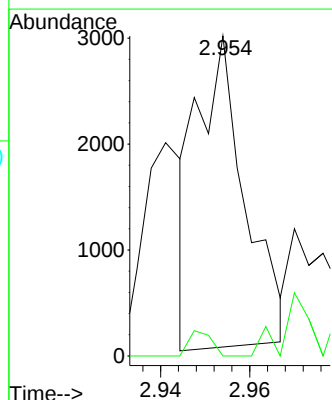
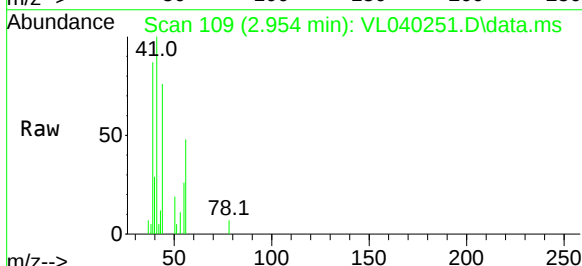
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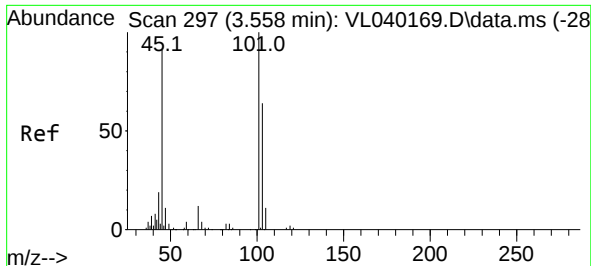
Tgt Ion: 39 Resp: 2203

Ion Ratio Lower Upper

39 100

54 18.1 66.7 100.1#

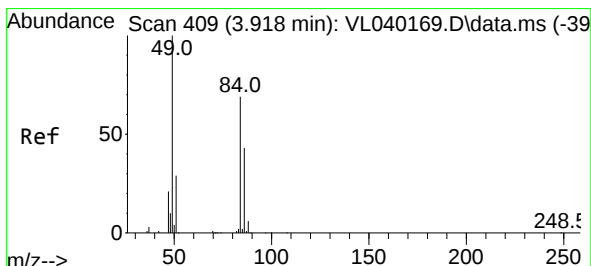
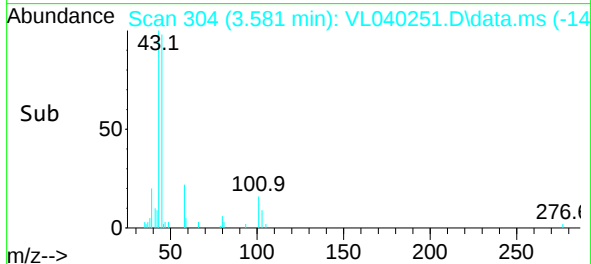
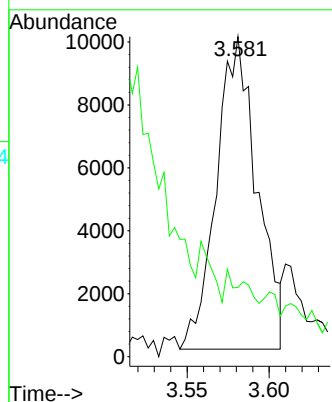
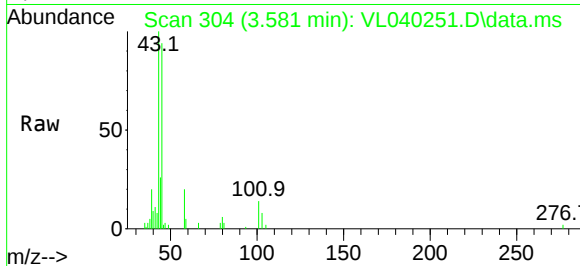




#19
Isopropyl Alcohol
Concen: 0.348 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.007 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

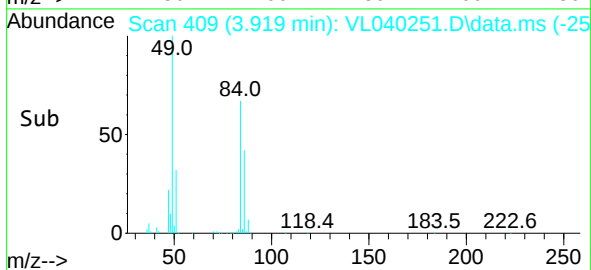
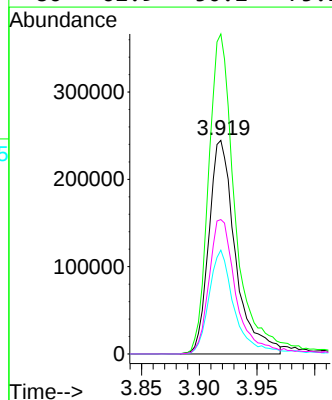
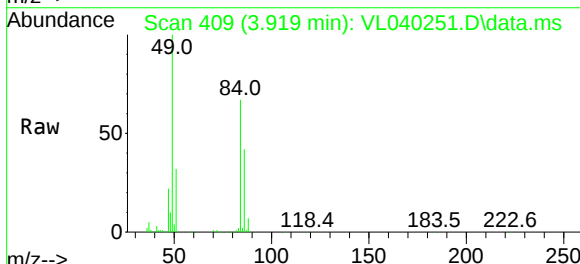
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IADUP

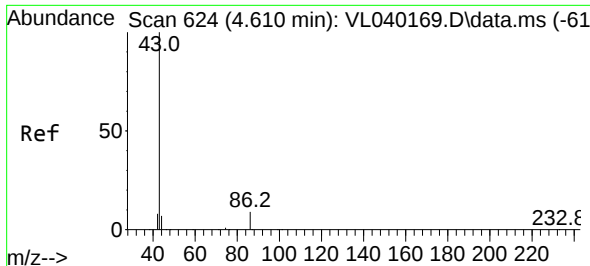
Tgt Ion: 45 Resp: 17134
Ion Ratio Lower Upper
45 100
58 0.0 2.6 3.8#



#20
Methylene Chloride
Concen: 7.281 ppbv
RT: 3.919 min Scan# 409
Delta R.T. -0.016 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

Tgt Ion: 84 Resp: 392373
Ion Ratio Lower Upper
84 100
49 149.6 115.5 173.3
51 48.5 33.1 49.7
86 62.9 50.2 75.2



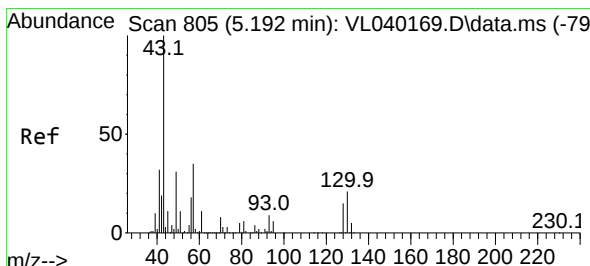
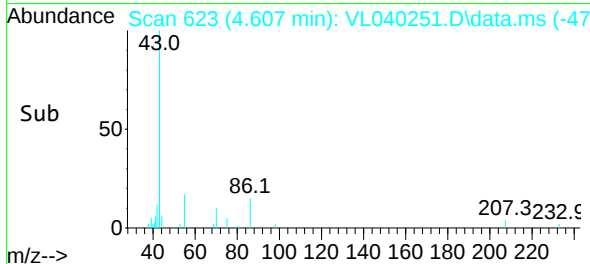
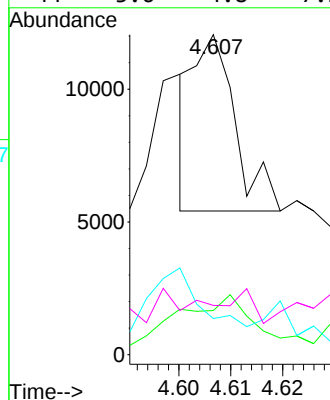
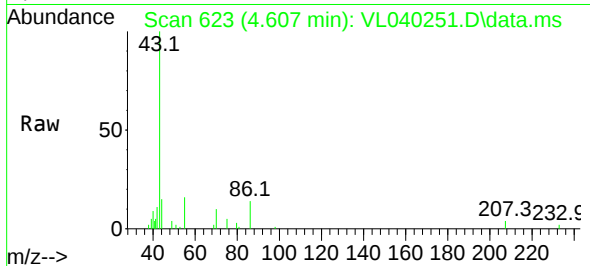


#23
 Vinyl Acetate
 Concen: 0.118 ppbv
 RT: 4.607 min Scan# 61
 Delta R.T. -0.026 min
 Lab File: VL040251.D
 Acq: 8 Mar 2023 13:00

Instrument :
 MSVOA_L
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 DC-3723-IADUP

Tgt Ion: 43 Resp: 3702

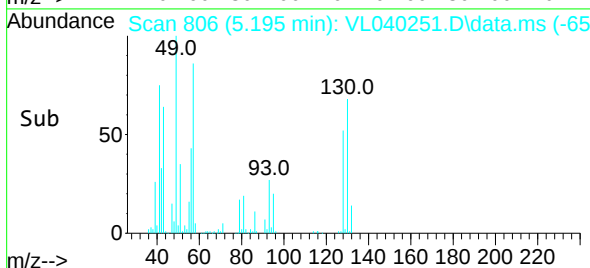
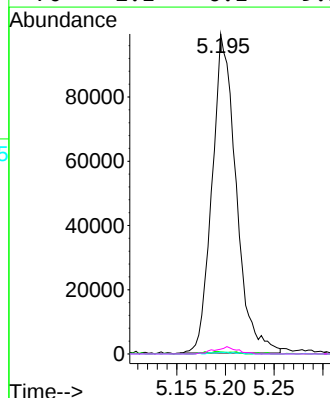
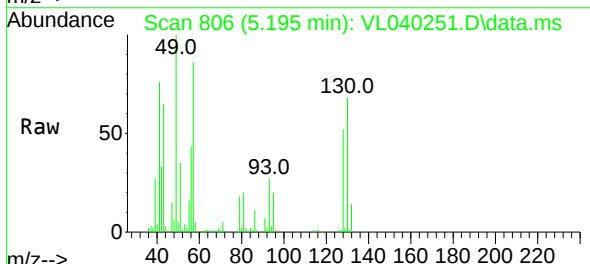
Ion	Ratio	Lower	Upper
43	100		
86	15.6	5.6	8.4#
42	0.0	7.6	11.4#
44	3.6	4.8	7.2#

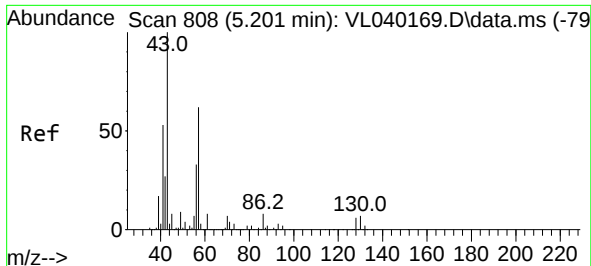


#25
 Ethyl Acetate
 Concen: 0.884 ppbv
 RT: 5.195 min Scan# 806
 Delta R.T. -0.016 min
 Lab File: VL040251.D
 Acq: 8 Mar 2023 13:00

Tgt Ion: 43 Resp: 170186

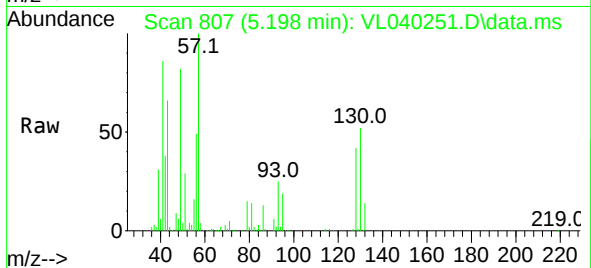
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.3	12.5#
61	0.5	8.4	12.6#
70	2.1	6.1	9.1#



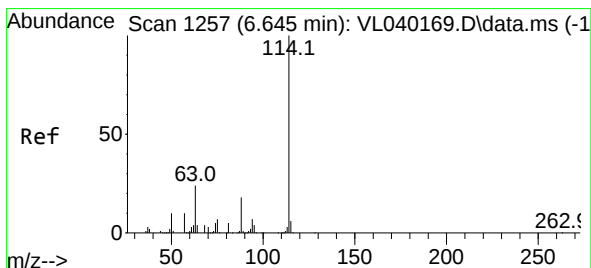
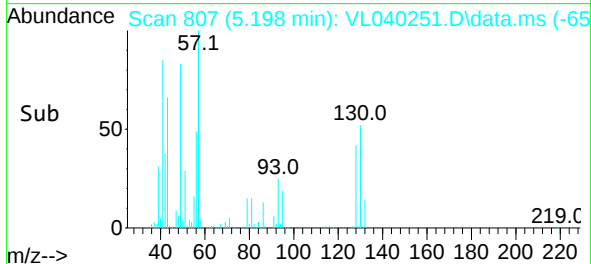
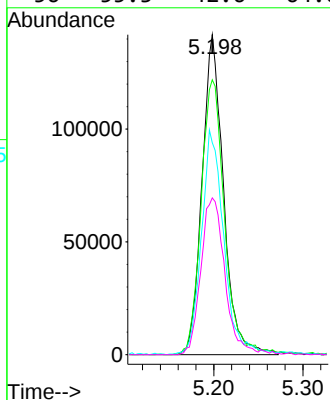


#26
Hexane
Concen: 2.876 ppbv
RT: 5.198 min Scan# 808
Delta R.T. -0.026 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IADUP

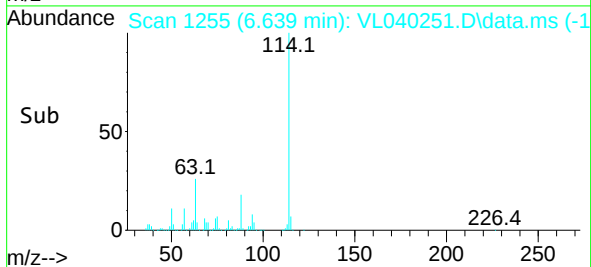
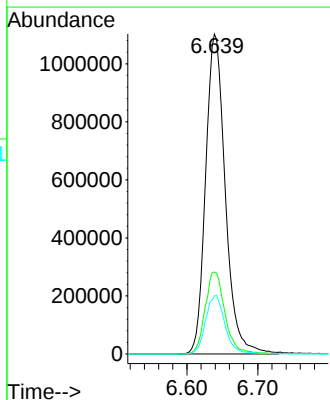
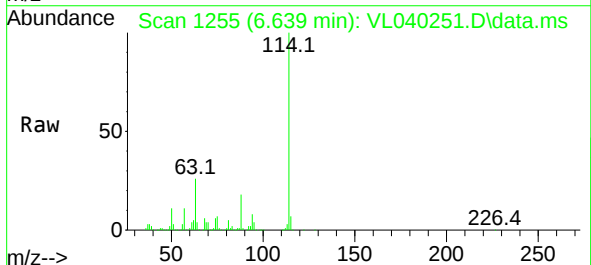


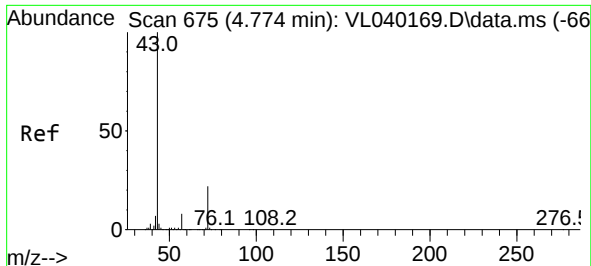
Tgt Ion: 57 Resp: 237561
Ion Ratio Lower Upper
57 100
41 93.9 74.3 111.5
43 73.9 193.0 289.4#
56 55.3 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

Tgt Ion: 114 Resp: 2123144
Ion Ratio Lower Upper
114 100
63 26.1 20.4 30.6
88 18.1 14.3 21.5

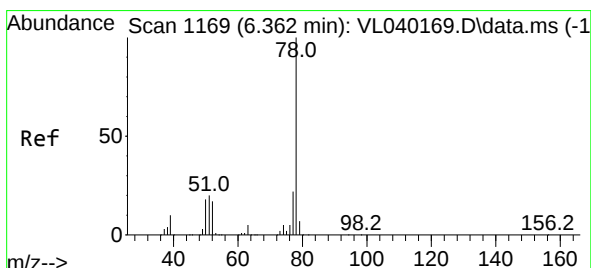
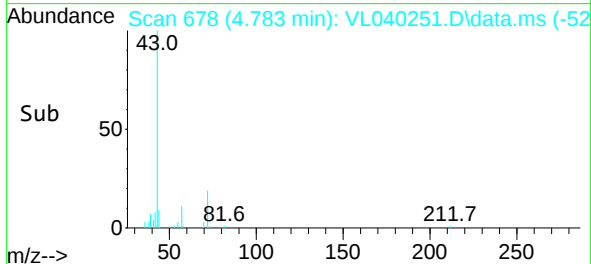
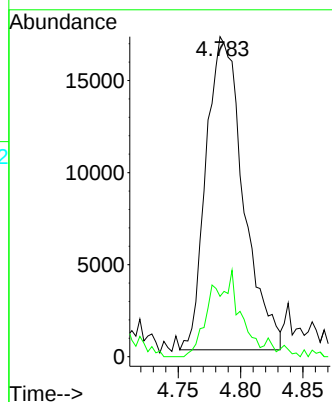
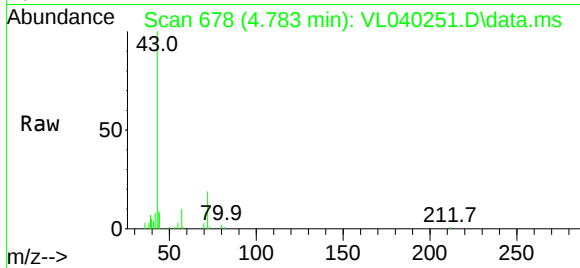




#34
2-Butanone
Concen: 0.338 ppbv
RT: 4.783 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

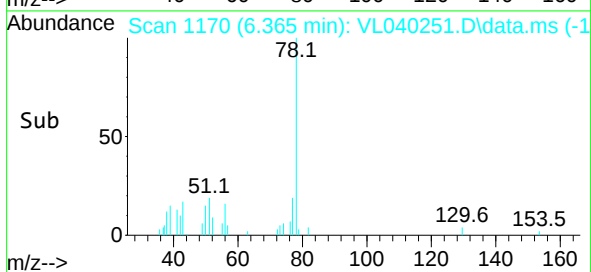
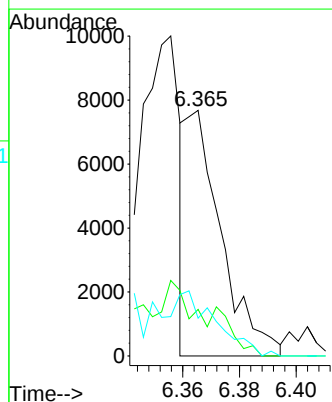
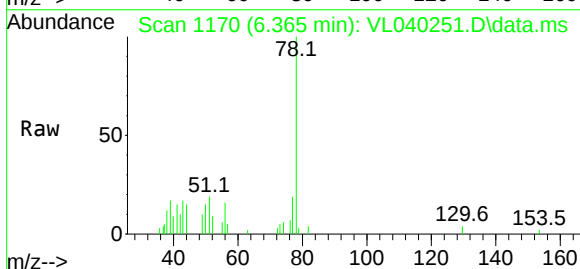
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-IADUP

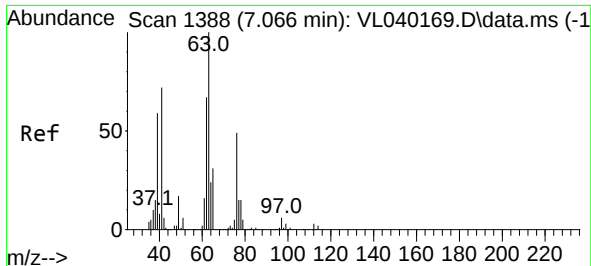
Tgt Ion: 43 Resp: 35398
Ion Ratio Lower Upper
43 100
72 24.4 17.8 26.8



#36
Benzene
Concen: 0.040 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. -0.019 min
Lab File: VL040251.D
Acq: 8 Mar 2023 13:00

Tgt Ion: 78 Resp: 6661
Ion Ratio Lower Upper
78 100
77 19.4 17.5 26.3
50 15.7 14.6 22.0





#39

1,2-Dichloropropane

Concen: 8.459 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.447 min

Lab File: VL040251.D

Acq: 8 Mar 2023 13:00

Instrument :

MSVOA_L

ClientSampleId :

DC-3723-IADUP

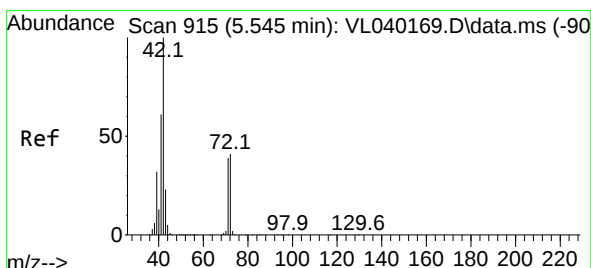
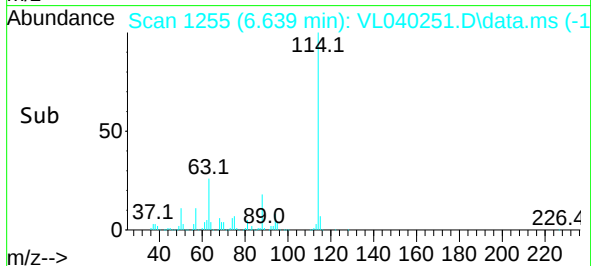
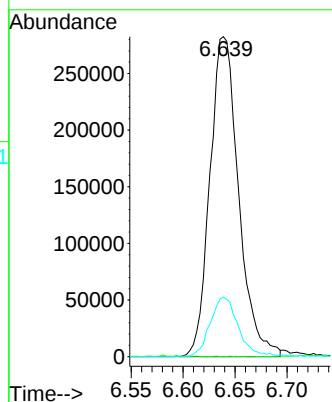
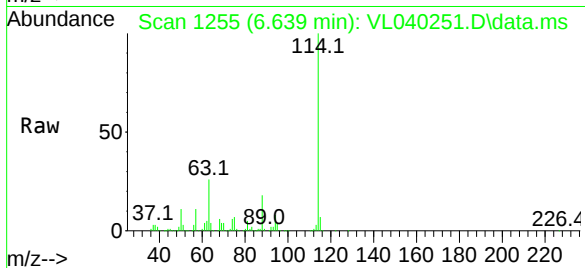
Tgt Ion: 63 Resp: 543681

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 18.5 54.0 81.0#



#41

Tetrahydrofuran

Concen: 1.516 ppbv

RT: 5.198 min Scan# 807

Delta R.T. -0.370 min

Lab File: VL040251.D

Acq: 8 Mar 2023 13:00

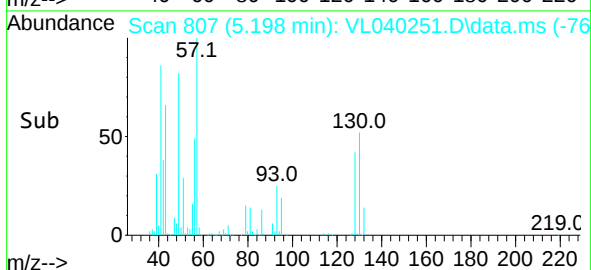
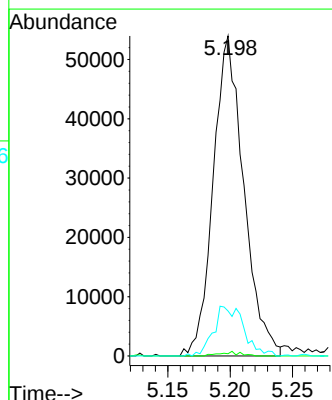
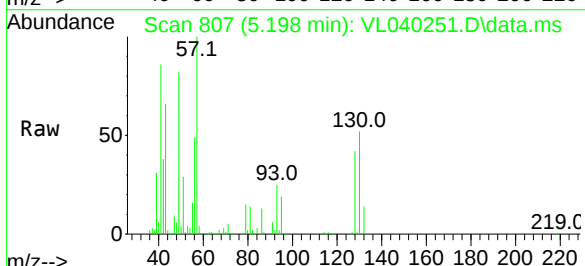
Tgt Ion: 42 Resp: 92024

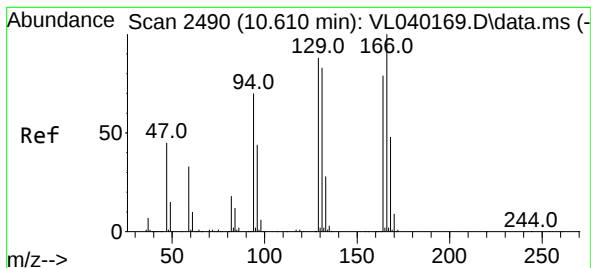
Ion Ratio Lower Upper

42 100

72 0.9 33.0 49.4#

71 15.5 31.4 47.2#





#52

Tetrachloroethene

Concen: 1.360 ppbv

RT: 10.606 min Scan# 2490

Delta R.T. -0.029 min

Lab File: VL040251.D

Acq: 8 Mar 2023 13:00

Instrument :

MSVOA_L

ClientSampleId :

DC-3723-IADUP

Tgt Ion:164 Resp: 70156

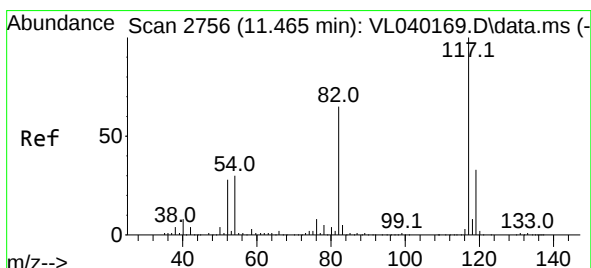
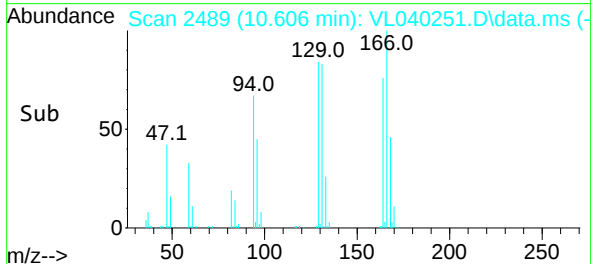
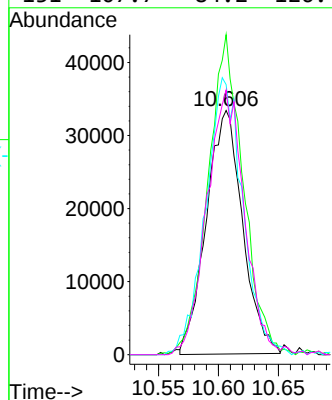
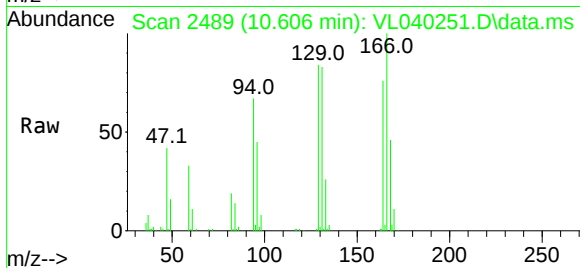
Ion Ratio Lower Upper

164 100

166 130.8 101.5 152.3

129 108.1 89.0 133.4

131 107.7 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: VL040251.D

Acq: 8 Mar 2023 13:00

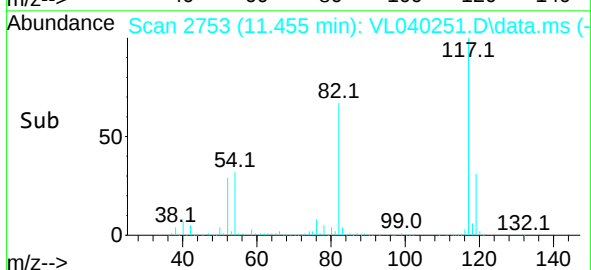
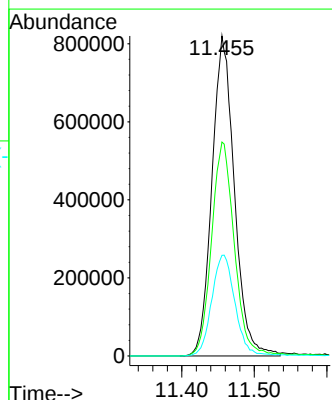
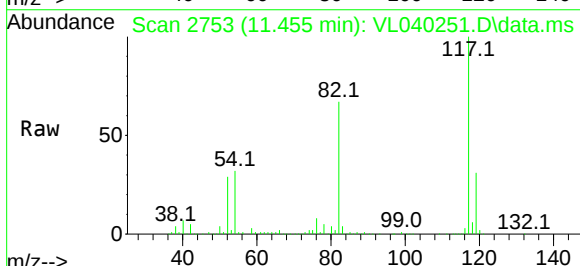
Tgt Ion:117 Resp: 1761738

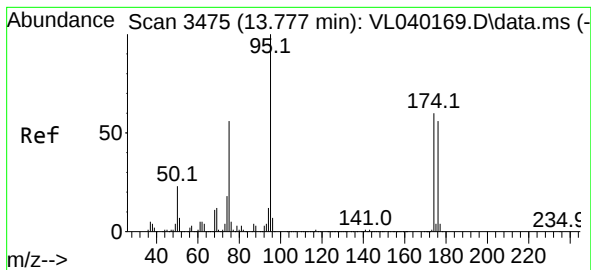
Ion Ratio Lower Upper

117 100

82 68.9 53.3 79.9

119 33.2 24.6 37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.604 ppbv
 RT: 13.770 min Scan# 34
 Delta R.T. -0.026 min
 Lab File: VL040251.D
 Acq: 8 Mar 2023 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-IADUP

Tgt Ion: 95 Resp: 1391245
 Ion Ratio Lower Upper
 95 100
 174 58.5 48.2 72.2
 175 4.2 3.4 5.2

