

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030823\
 Data File : VL040255.D
 Acq On : 8 Mar 2023 15:37
 Operator : SY/MD
 Sample : 01836-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-SS

Quant Time: Mar 09 04:13:30 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)

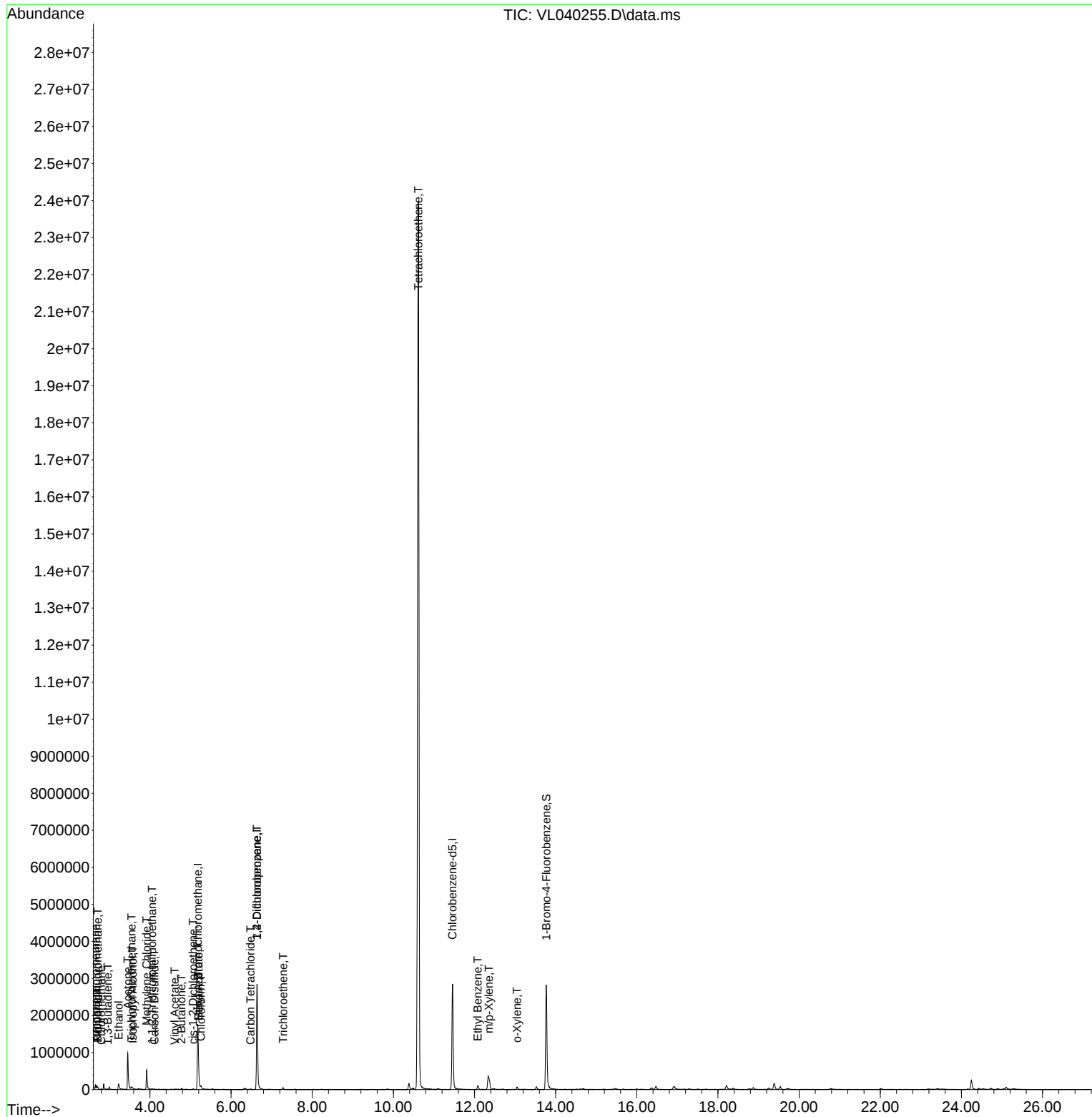
Internal Standards						
1) Bromochloromethane	5.179	49	789043	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.639	114	2003027	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.458	117	1722645	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1387599	9.796	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	34800	0.237	ppbv	100
3) Chlorodifluoromethane	2.664	51	103177	1.095	ppbv	97
4) Chloromethane	2.803	50	11721	0.198	ppbv	99
9) Propene	2.690	41	19534	0.508	ppbv #	77
11) Trichlorofluoromethane	3.549	101	31939	0.242	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.053	101	7301	0.075	ppbv	92
13) Ethanol	3.230	45	163160	46.128	ppbv	90
15) Acetone	3.452	43	991317	10.435	ppbv	99
16) 1,3-Butadiene	2.957	39	1444	0.033	ppbv #	50
19) Isopropyl Alcohol	3.578	45	14563	0.322	ppbv #	90
20) Methylene Chloride	3.922	84	175657	3.552	ppbv	94
23) Vinyl Acetate	4.610	43	2546	0.088	ppbv #	79
25) Ethyl Acetate	5.201	43	70963	0.402	ppbv #	77
26) Hexane	5.201	57	100472	1.325	ppbv #	35
27) Carbon Disulfide	4.108	76	3491	0.036	ppbv #	60
29) Chloroform	5.259	83	40478	0.311	ppbv	98
31) cis-1,2-Dichloroethene	5.066	61	10993	0.153	ppbv #	81
34) 2-Butanone	4.774	43	12331	0.125	ppbv #	53
35) Carbon Tetrachloride	6.478	117	7076	0.060	ppbv #	89
38) Trichloroethene	7.285	130	8060	0.094	ppbv #	79
39) 1,2-Dichloropropane	6.639	63	514889	8.491	ppbv #	24
52) Tetrachloroethene	10.616	164	6623636	136.077	ppbv	93
58) Ethyl Benzene	12.079	91	55205	0.264	ppbv	89
59) m/p-Xylene	12.355	91	164835	0.889	ppbv #	33
60) o-Xylene	13.047	91	46046	0.258	ppbv	99

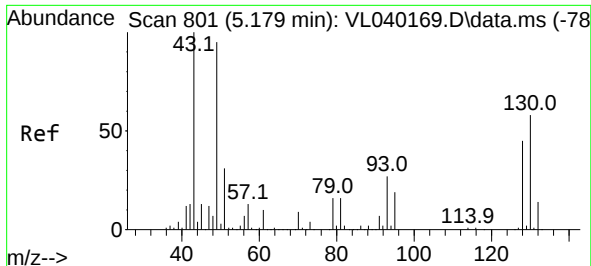
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

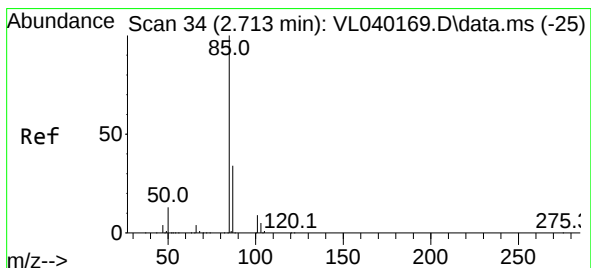
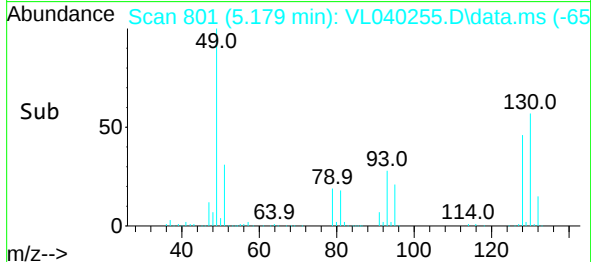
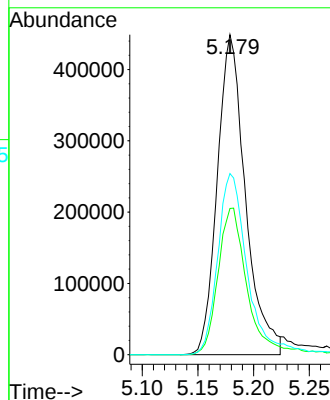
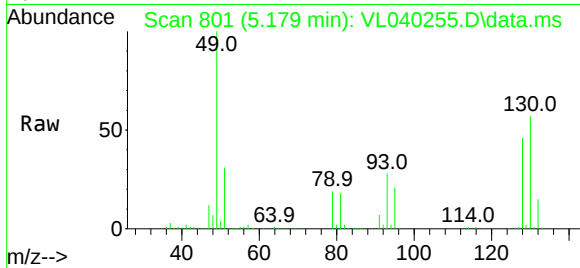




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.022 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

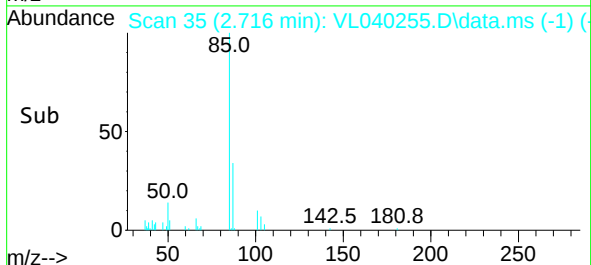
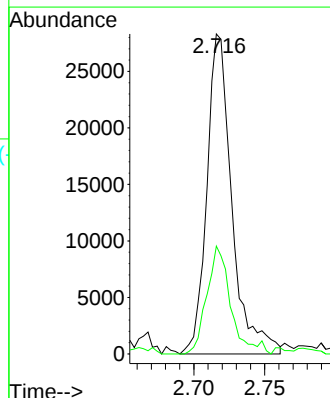
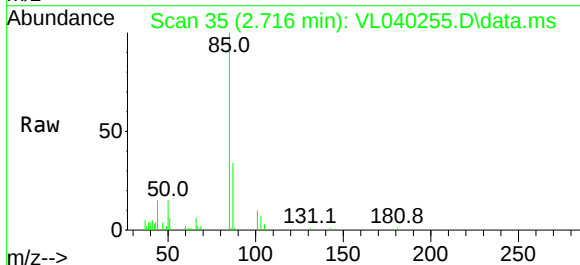
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-SS

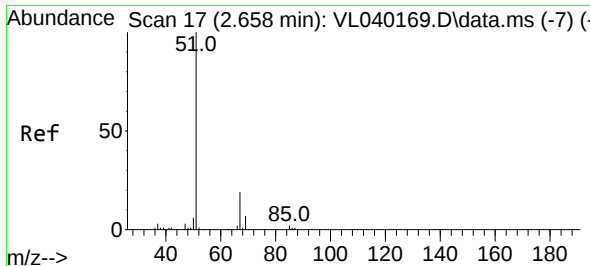
Tgt Ion: 49 Resp: 789043
Ion Ratio Lower Upper
49 100
128 48.5 24.1 72.3
130 61.3 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.237 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.010 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Tgt Ion: 85 Resp: 34800
Ion Ratio Lower Upper
85 100
87 33.7 27.0 40.6

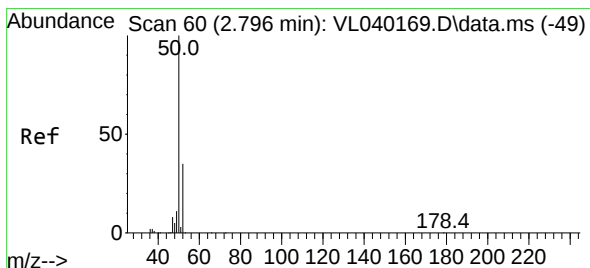
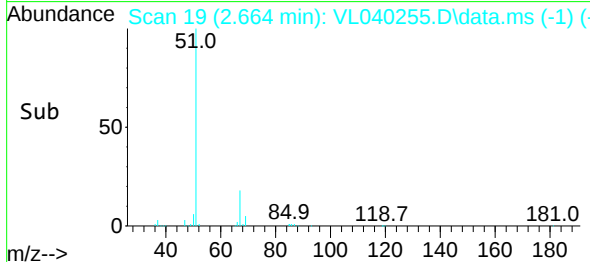
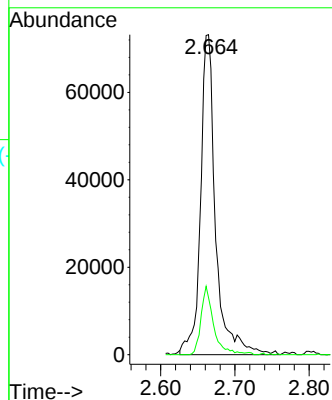
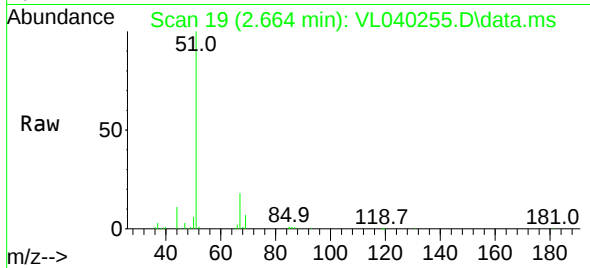




#3
Chlorodifluoromethane
Concen: 1.095 ppbv
RT: 2.664 min Scan# 19
Delta R.T. -0.006 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

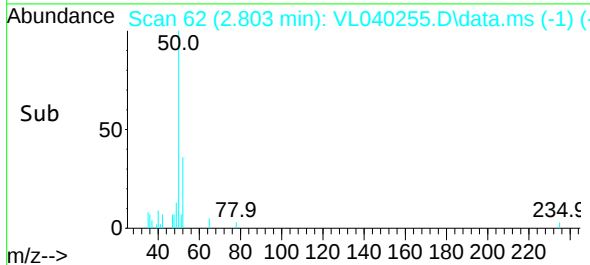
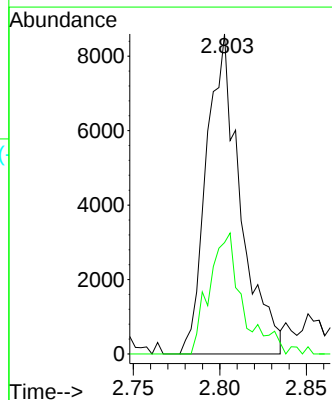
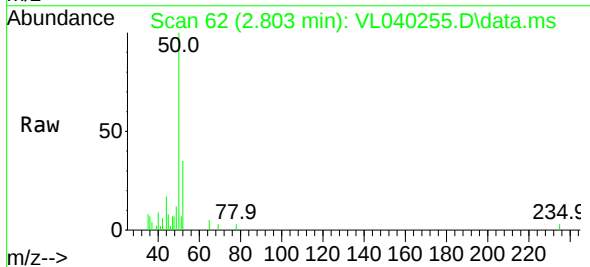
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-SS

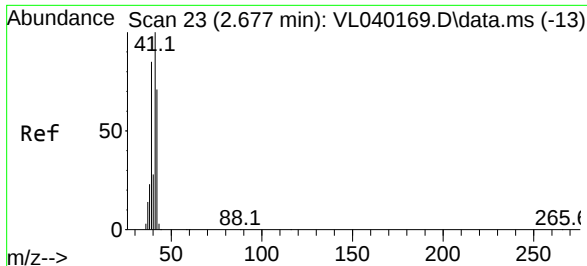
Tgt Ion: 51 Resp: 103177
Ion Ratio Lower Upper
51 100
67 18.1 15.4 23.2



#4
Chloromethane
Concen: 0.198 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.010 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Tgt Ion: 50 Resp: 11721
Ion Ratio Lower Upper
50 100
52 34.8 28.3 42.5





#9

Propene

Concen: 0.508 ppbv

RT: 2.690 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Instrument :

MSVOA_L

ClientSampleId :

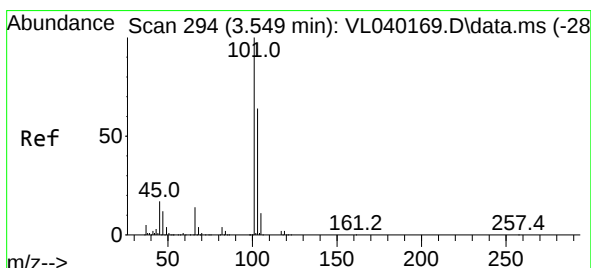
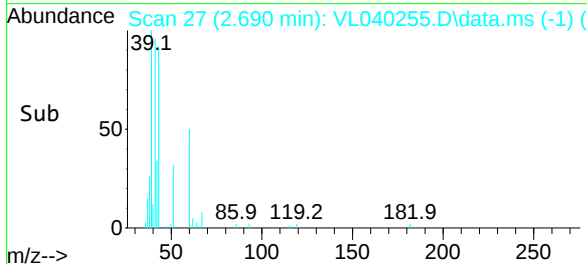
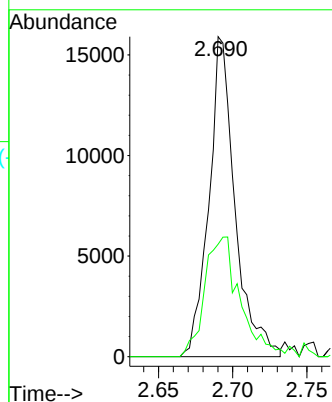
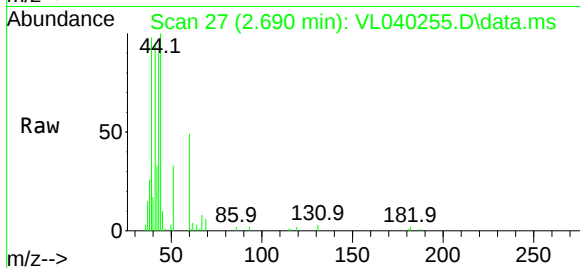
DC-3723-SS

Tgt Ion: 41 Resp: 19534

Ion Ratio Lower Upper

41 100

42 52.3 56.9 85.3#



#11

Trichlorofluoromethane

Concen: 0.242 ppbv

RT: 3.549 min Scan# 294

Delta R.T. -0.016 min

Lab File: VL040255.D

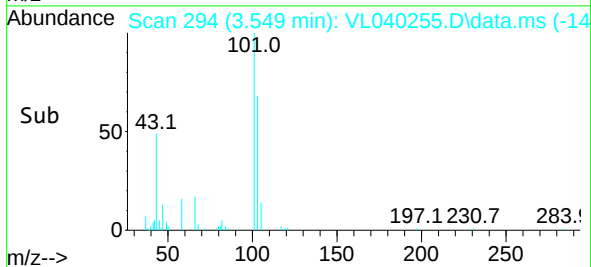
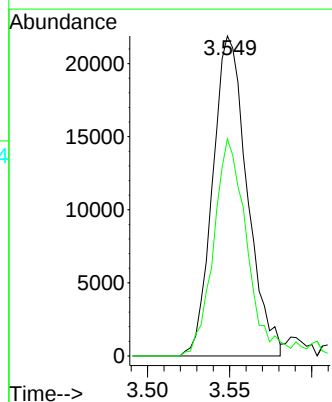
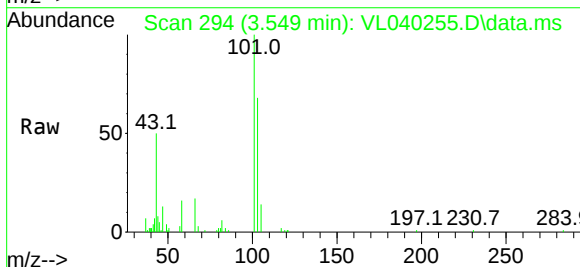
Acq: 8 Mar 2023 15:37

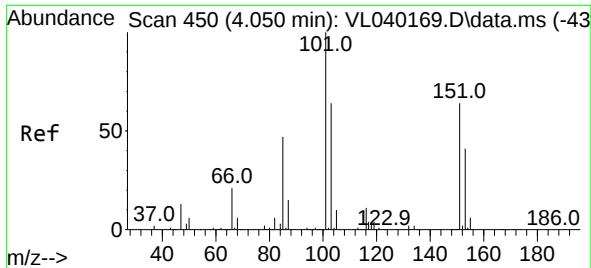
Tgt Ion:101 Resp: 31939

Ion Ratio Lower Upper

101 100

103 67.8 51.0 76.6

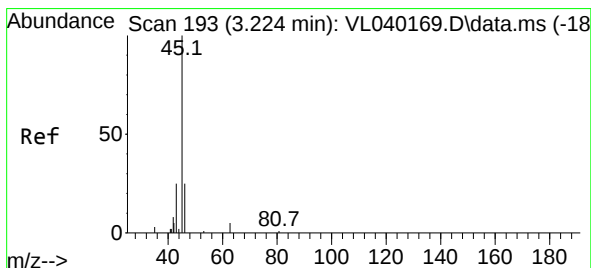
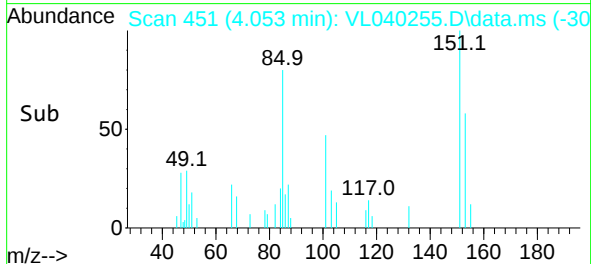
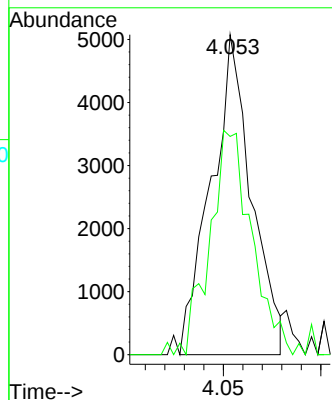
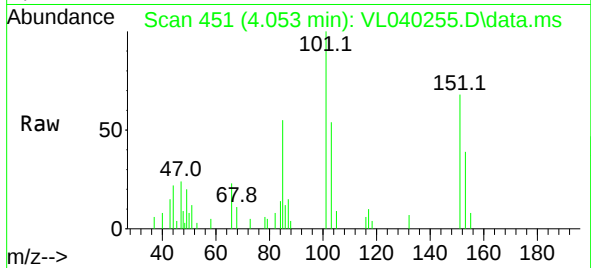




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.075 ppbv
RT: 4.053 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

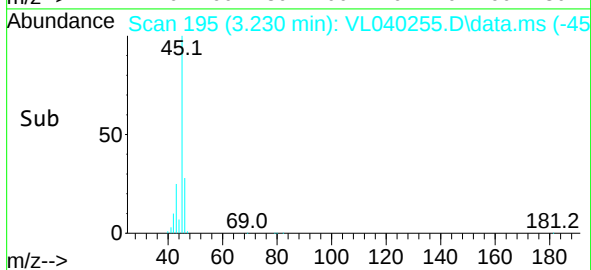
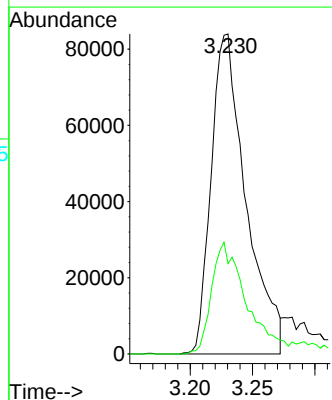
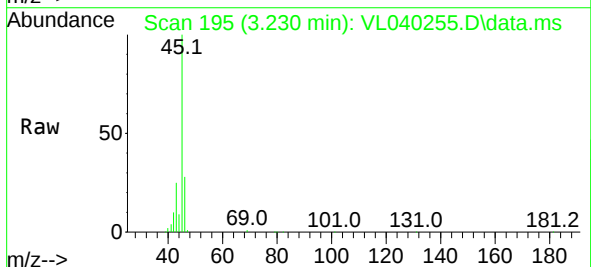
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-SS

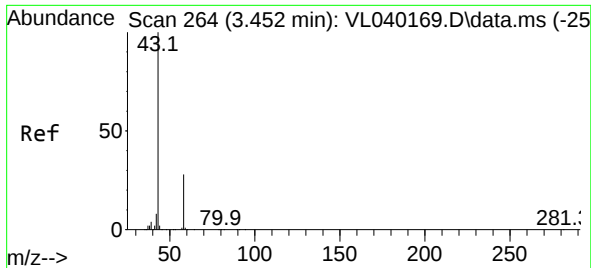
Tgt Ion:101 Resp: 7301
Ion Ratio Lower Upper
101 100
151 74.6 54.7 82.1



#13
Ethanol
Concen: 46.128 ppbv
RT: 3.230 min Scan# 195
Delta R.T. -0.016 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Tgt Ion: 45 Resp: 163160
Ion Ratio Lower Upper
45 100
46 38.7 13.3 53.1

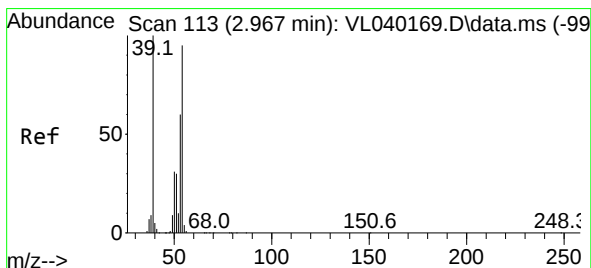
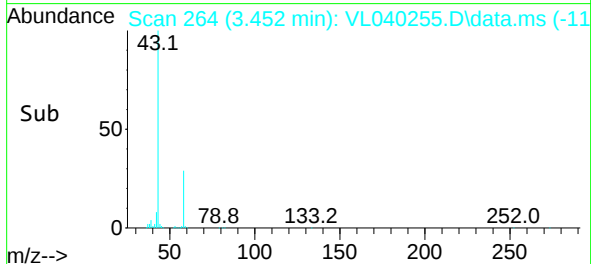
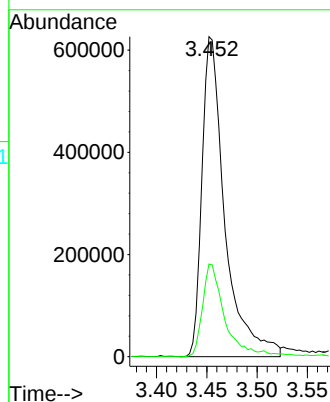
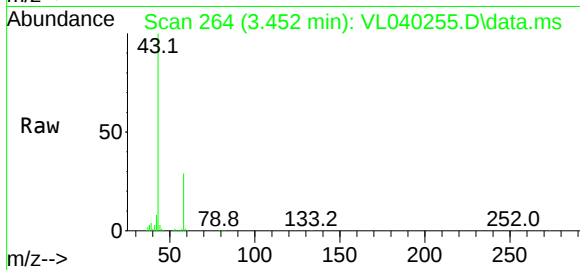




#15
Acetone
Concen: 10.435 ppbv
RT: 3.452 min Scan# 20
Delta R.T. -0.016 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

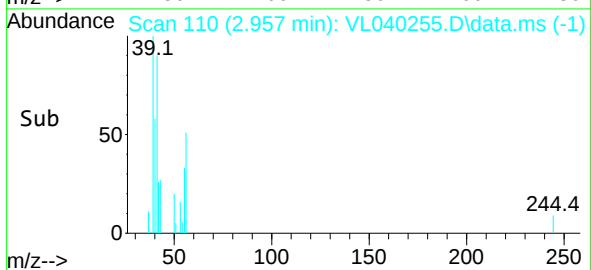
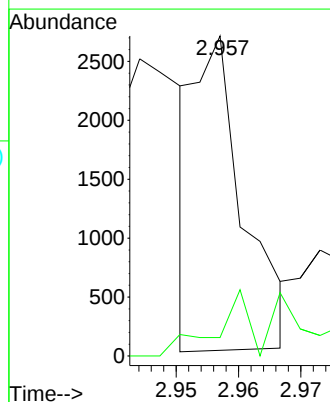
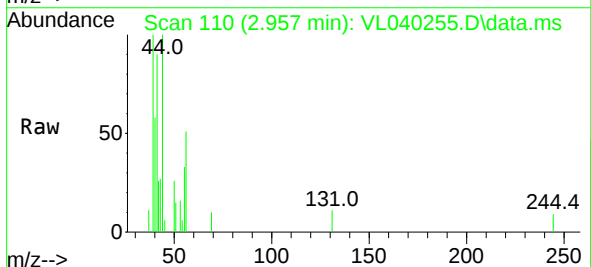
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-SS

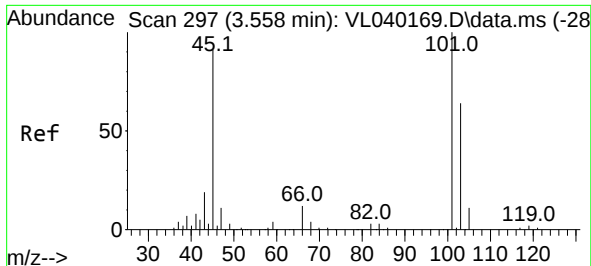
Tgt Ion: 43 Resp: 991317
Ion Ratio Lower Upper
43 100
58 28.7 22.4 33.6



#16
1,3-Butadiene
Concen: 0.033 ppbv
RT: 2.957 min Scan# 110
Delta R.T. -0.026 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Tgt Ion: 39 Resp: 1444
Ion Ratio Lower Upper
39 100
54 38.1 66.7 100.1#





#19

Isopropyl Alcohol

Concen: 0.322 ppbv

RT: 3.578 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Instrument :

MSVOA_L

ClientSampleId :

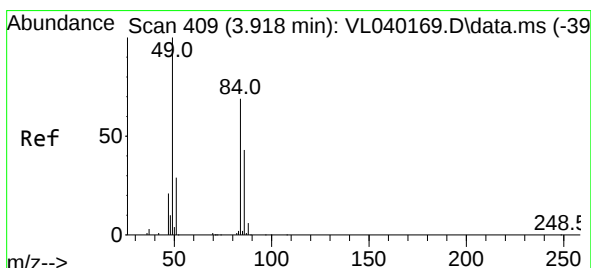
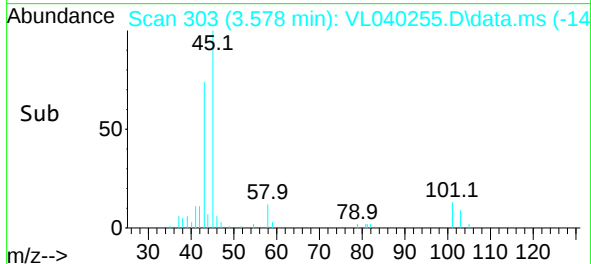
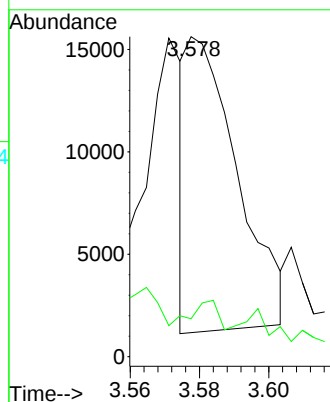
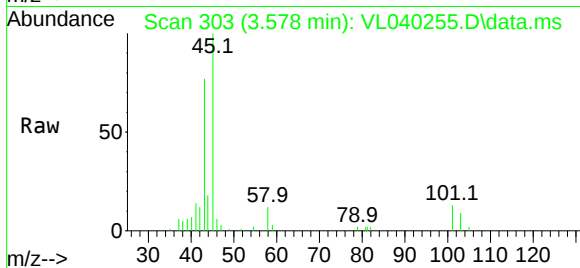
DC-3723-SS

Tgt Ion: 45 Resp: 14563

Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#



#20

Methylene Chloride

Concen: 3.552 ppbv

RT: 3.922 min Scan# 410

Delta R.T. -0.013 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Tgt Ion: 84 Resp: 175657

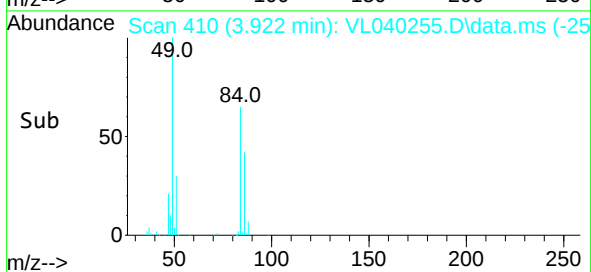
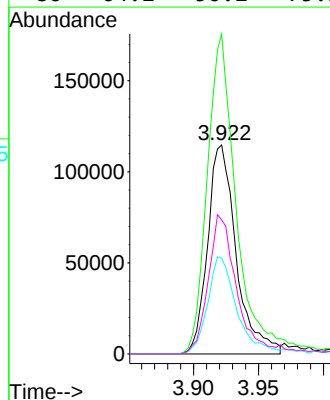
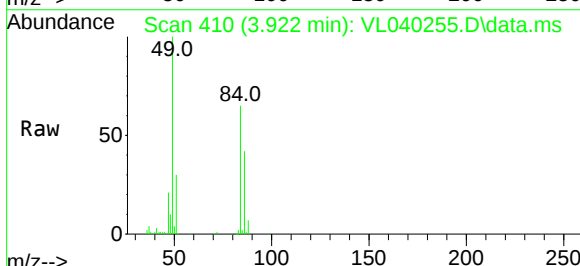
Ion Ratio Lower Upper

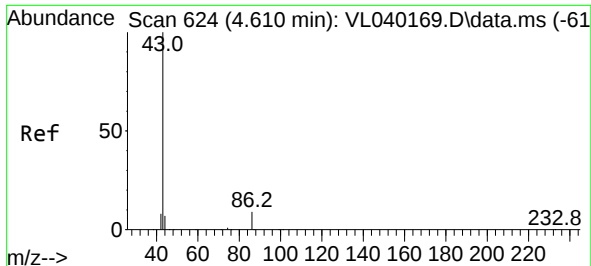
84 100

49 153.1 115.5 173.3

51 45.8 33.1 49.7

86 64.2 50.2 75.2



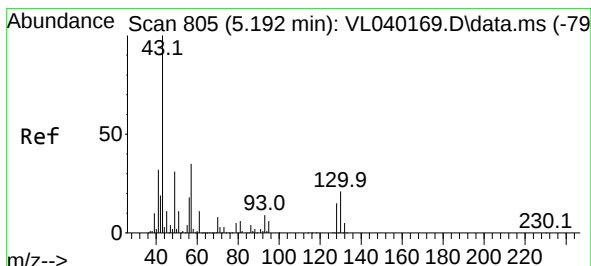
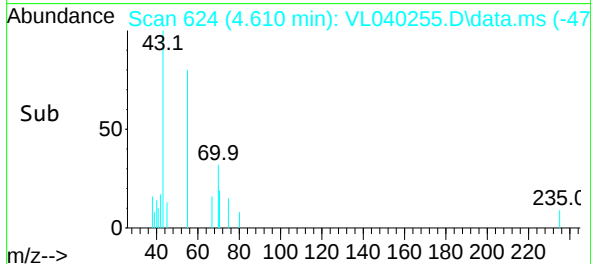
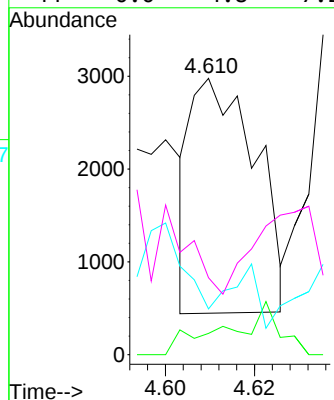
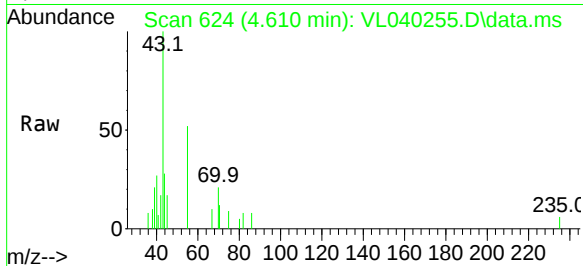


#23
 Vinyl Acetate
 Concen: 0.088 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.023 min
 Lab File: VL040255.D
 Acq: 8 Mar 2023 15:37

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-SS

Tgt Ion: 43 Resp: 2546

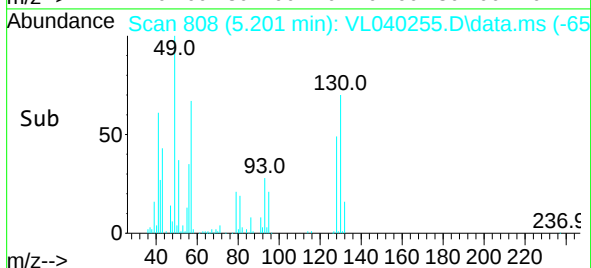
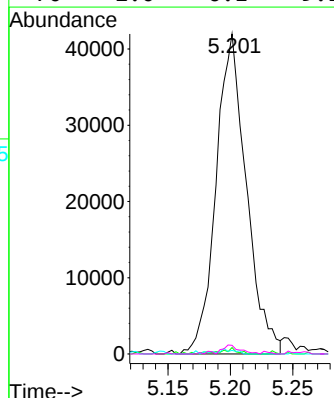
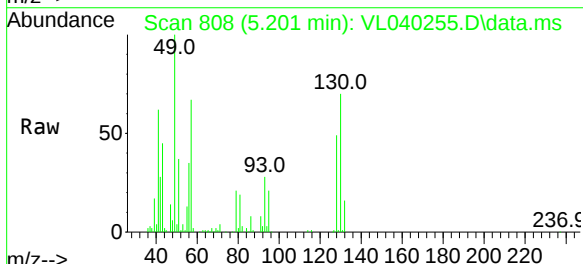
Ion	Ratio	Lower	Upper
43	100		
86	1.5	5.6	8.4#
42	0.0	7.6	11.4#
44	0.0	4.8	7.2#

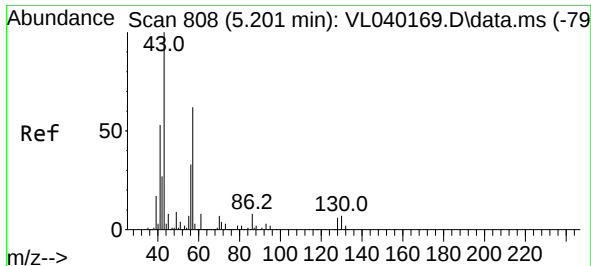


#25
 Ethyl Acetate
 Concen: 0.402 ppbv
 RT: 5.201 min Scan# 808
 Delta R.T. -0.010 min
 Lab File: VL040255.D
 Acq: 8 Mar 2023 15:37

Tgt Ion: 43 Resp: 70963

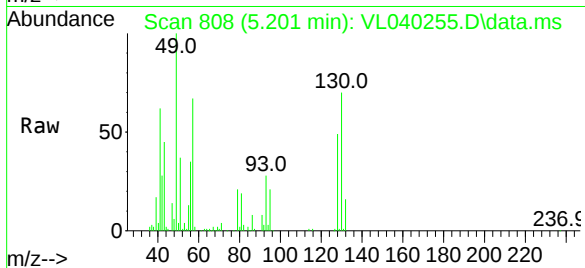
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.3	12.5#
61	1.1	8.4	12.6#
70	2.0	6.1	9.1#



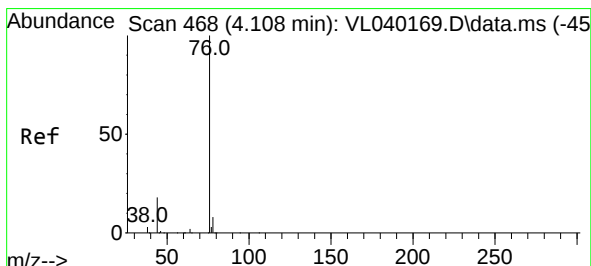
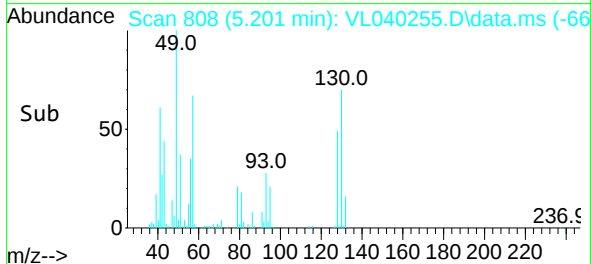
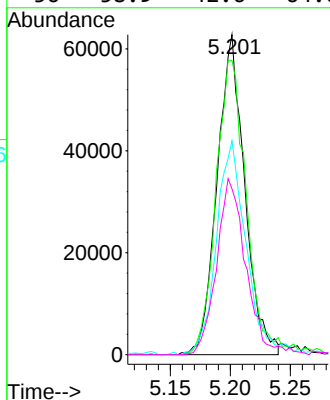


#26
Hexane
Concen: 1.325 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.023 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Instrument :
MSVOA_L
ClientSampleId :
DC-3723-SS

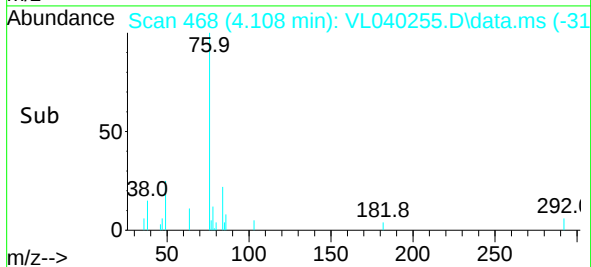
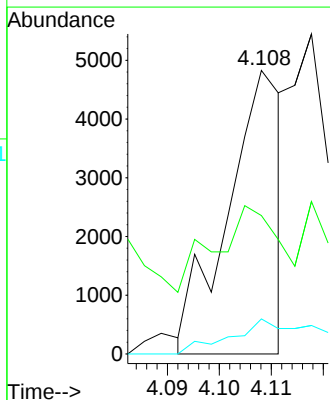
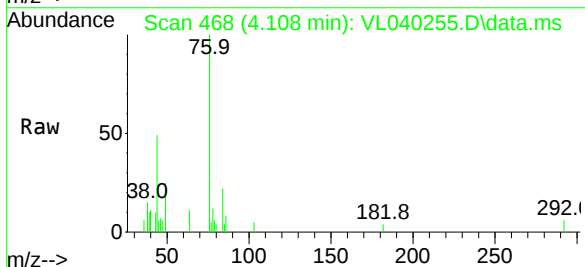


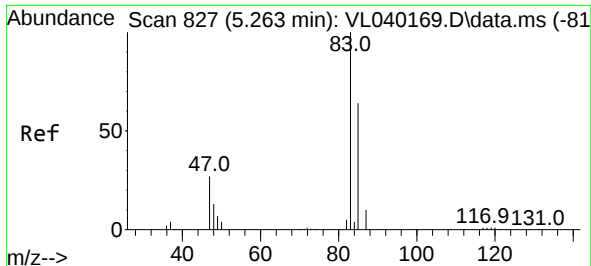
Tgt Ion: 57 Resp: 100472
Ion Ratio Lower Upper
57 100
41 103.7 74.3 111.5
43 72.3 193.0 289.4#
56 58.9 42.6 64.0



#27
Carbon Disulfide
Concen: 0.036 ppbv
RT: 4.108 min Scan# 468
Delta R.T. -0.019 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Tgt Ion: 76 Resp: 3491
Ion Ratio Lower Upper
76 100
44 0.0 15.3 22.9#
78 22.9 7.7 11.5#

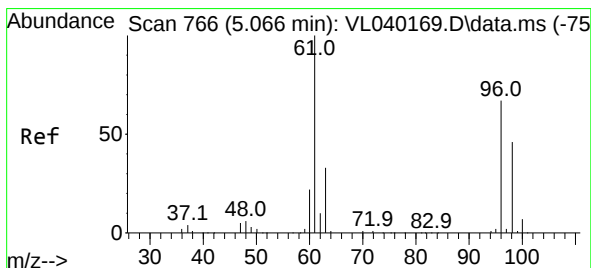
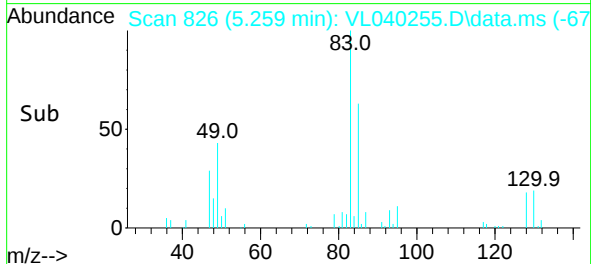
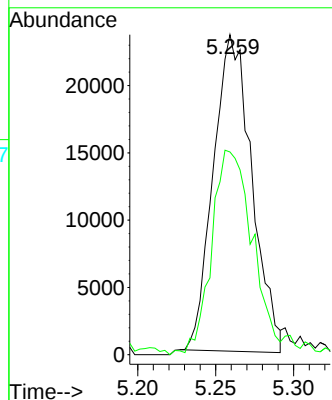
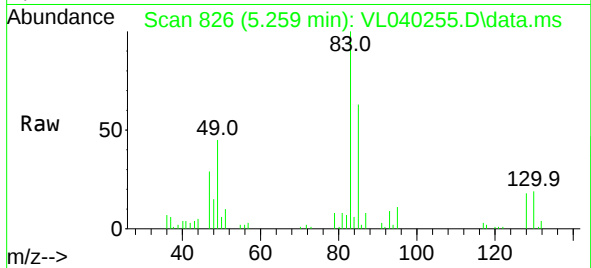




#29
Chloroform
Concen: 0.311 ppbv
RT: 5.259 min Scan# 81
Delta R.T. -0.023 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

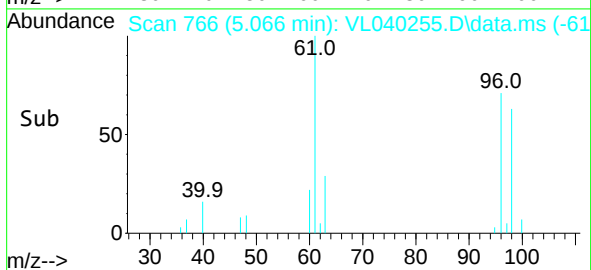
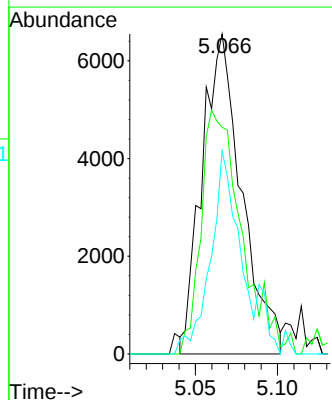
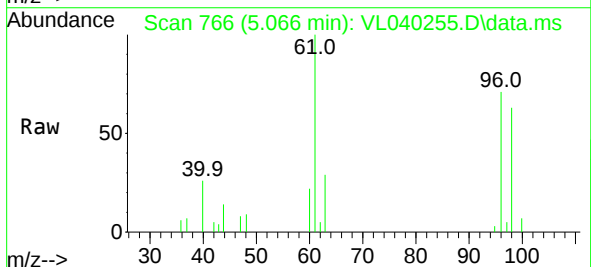
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-SS

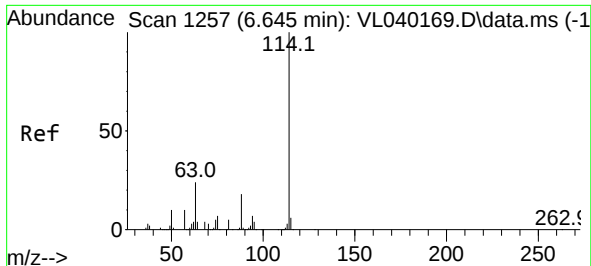
Tgt Ion: 83 Resp: 40478
Ion Ratio Lower Upper
83 100
85 63.2 51.5 77.3



#31
cis-1,2-Dichloroethene
Concen: 0.153 ppbv
RT: 5.066 min Scan# 766
Delta R.T. -0.019 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Tgt Ion: 61 Resp: 10993
Ion Ratio Lower Upper
61 100
96 74.7 53.7 80.5
98 66.9 36.4 54.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Instrument :

MSVOA_L

ClientSampleId :

DC-3723-SS

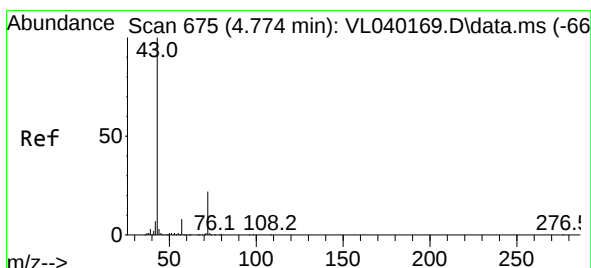
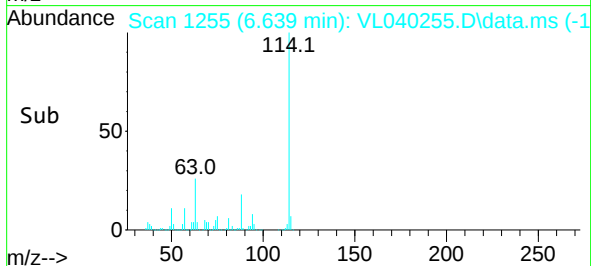
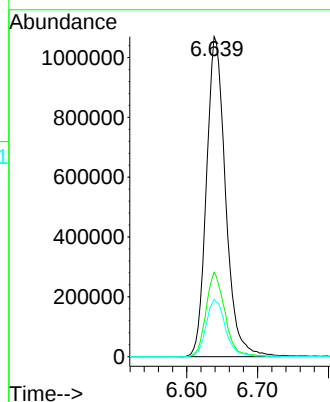
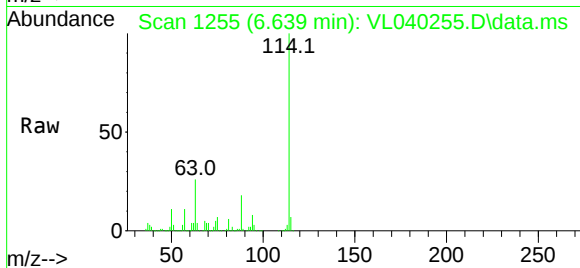
Tgt Ion:114 Resp: 2003027

Ion Ratio Lower Upper

114 100

63 26.3 20.4 30.6

88 18.2 14.3 21.5



#34

2-Butanone

Concen: 0.125 ppbv

RT: 4.774 min Scan# 675

Delta R.T. -0.019 min

Lab File: VL040255.D

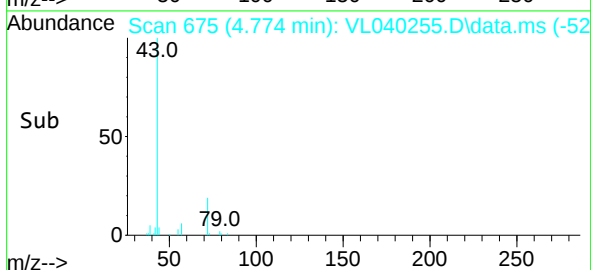
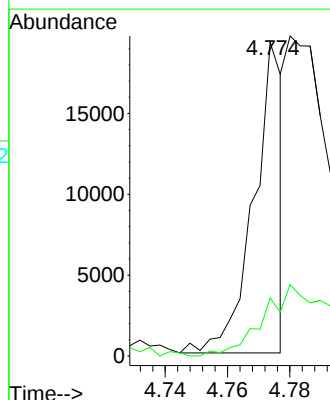
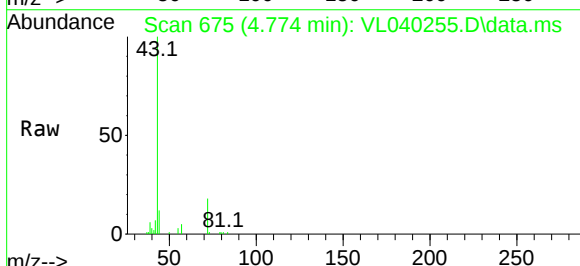
Acq: 8 Mar 2023 15:37

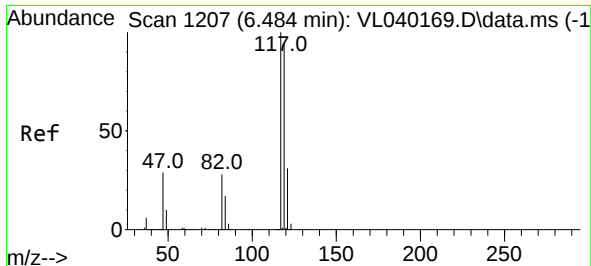
Tgt Ion: 43 Resp: 12331

Ion Ratio Lower Upper

43 100

72 0.0 17.8 26.8#

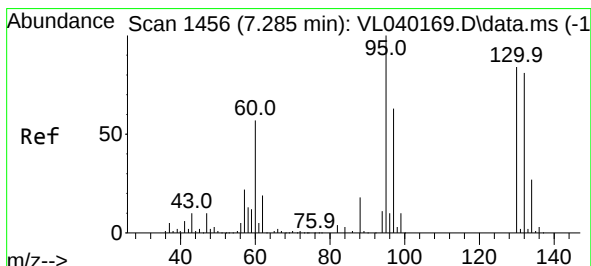
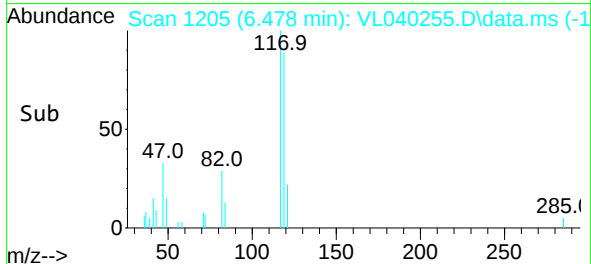
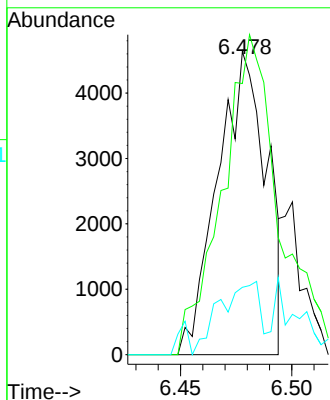
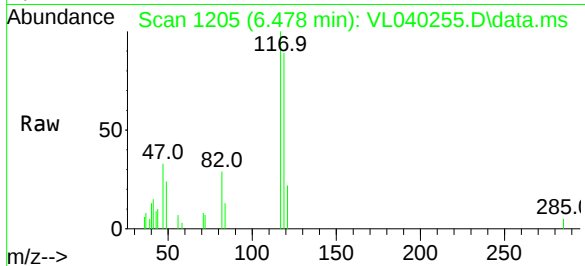




#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 6.478 min Scan# 117
Delta R.T. -0.029 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

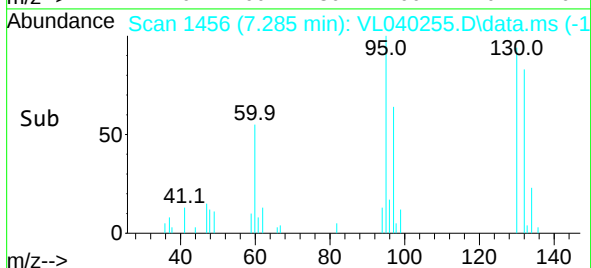
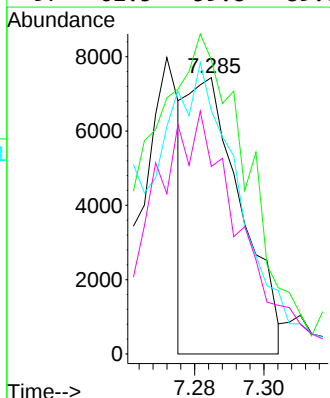
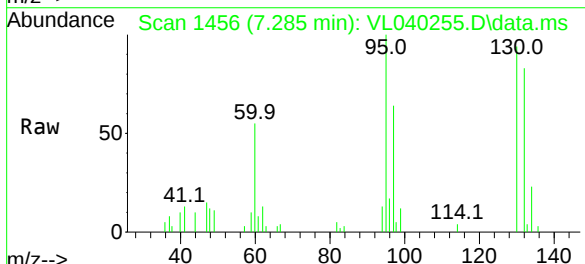
Instrument :
MSVOA_L
ClientSampleId :
DC-3723-SS

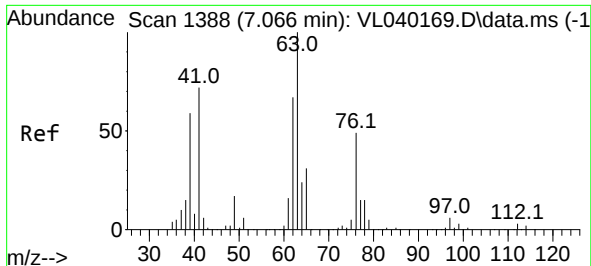
Tgt Ion:117 Resp: 7076
Ion Ratio Lower Upper
117 100
119 89.4 75.0 112.6
121 15.5 25.0 37.4#



#38
Trichloroethene
Concen: 0.094 ppbv
RT: 7.285 min Scan# 1456
Delta R.T. -0.023 min
Lab File: VL040255.D
Acq: 8 Mar 2023 15:37

Tgt Ion:130 Resp: 8060
Ion Ratio Lower Upper
130 100
95 92.5 94.7 142.1#
132 73.1 76.4 114.6#
97 62.5 59.8 89.6





#39

1,2-Dichloropropane

Concen: 8.491 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.447 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Instrument :

MSVOA_L

ClientSampleId :

DC-3723-SS

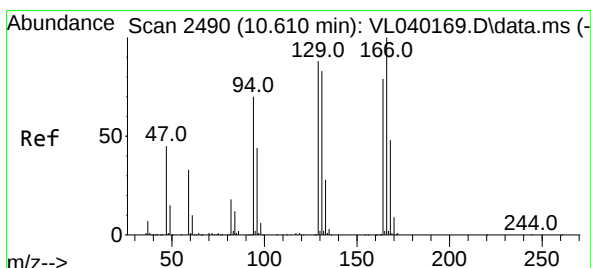
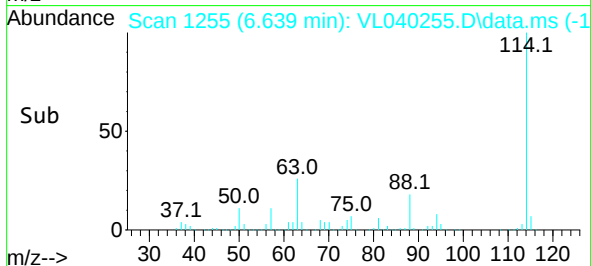
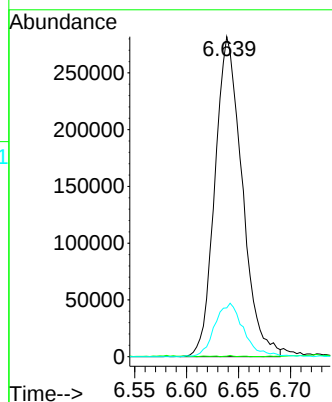
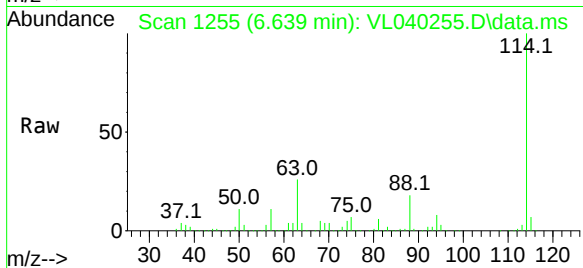
Tgt Ion: 63 Resp: 514889

Ion Ratio Lower Upper

63 100

41 0.1 57.6 86.4#

62 15.3 54.0 81.0#



#52

Tetrachloroethene

Concen: 136.077 ppbv

RT: 10.616 min Scan# 2492

Delta R.T. -0.019 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Tgt Ion:164 Resp: 6623636

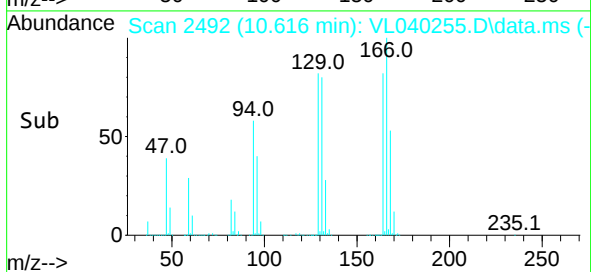
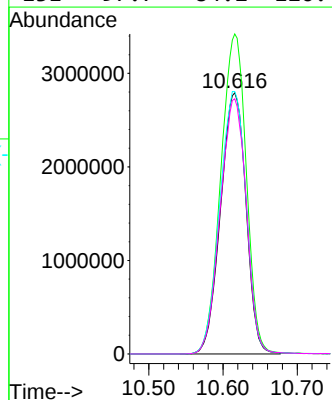
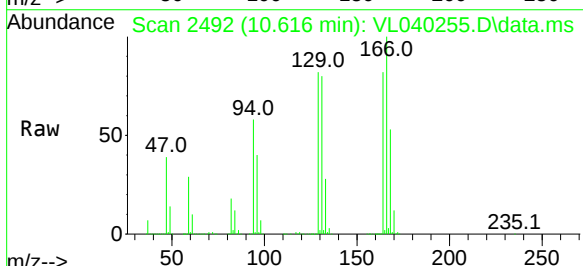
Ion Ratio Lower Upper

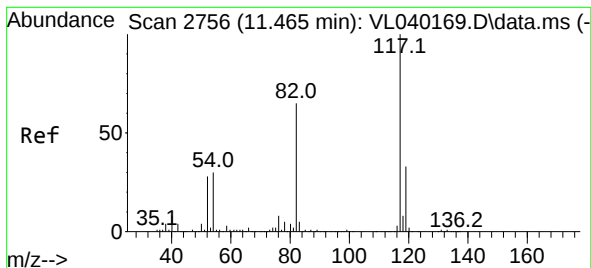
164 100

166 122.6 101.5 152.3

129 100.5 89.0 133.4

131 97.7 84.2 126.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 21

Delta R.T. -0.029 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Instrument :

MSVOA_1

ClientSampleId :

DC-3723-SS

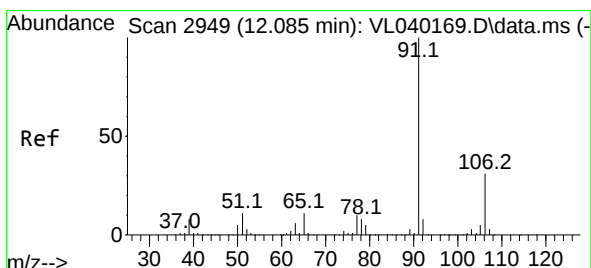
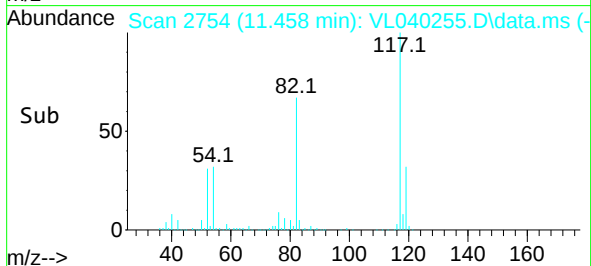
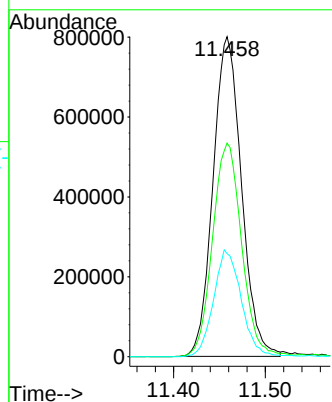
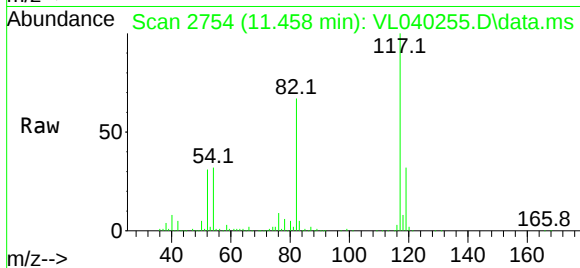
Tgt Ion:117 Resp: 1722645

Ion Ratio Lower Upper

117 100

82 69.1 53.3 79.9

119 33.0 24.6 37.0



#58

Ethyl Benzene

Concen: 0.264 ppbv

RT: 12.079 min Scan# 2947

Delta R.T. -0.032 min

Lab File: VL040255.D

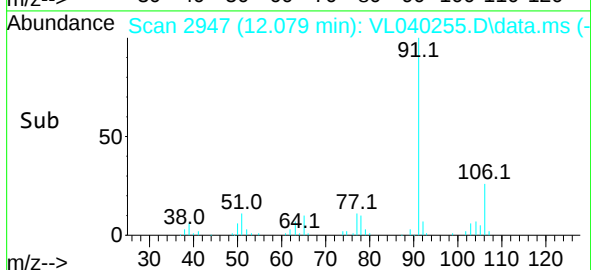
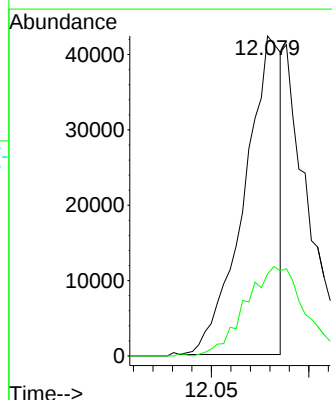
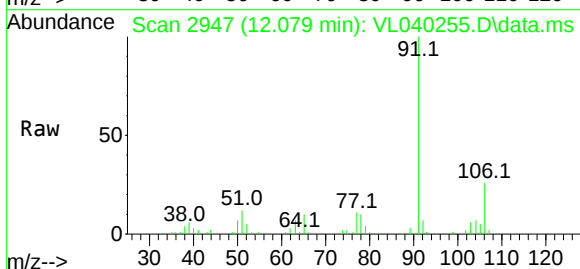
Acq: 8 Mar 2023 15:37

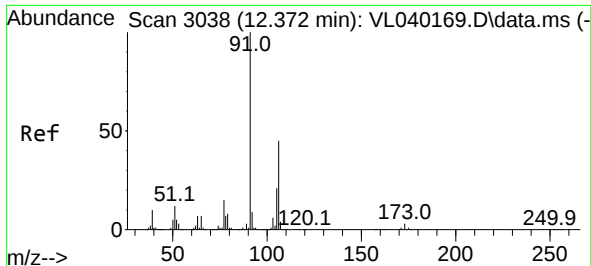
Tgt Ion: 91 Resp: 55205

Ion Ratio Lower Upper

91 100

106 25.0 24.9 37.3





#59

m/p-Xylene

Concen: 0.889 ppbv

RT: 12.355 min Scan# 3033

Delta R.T. -0.042 min

Lab File: VL040255.D

Acq: 8 Mar 2023 15:37

Instrument :

MSVOA_L

ClientSampleId :

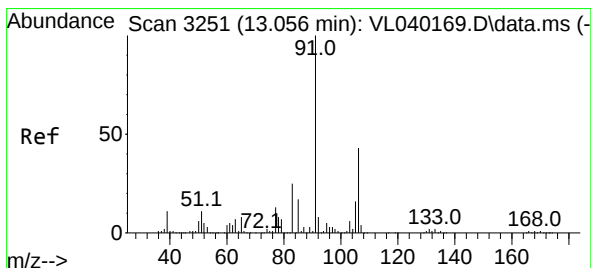
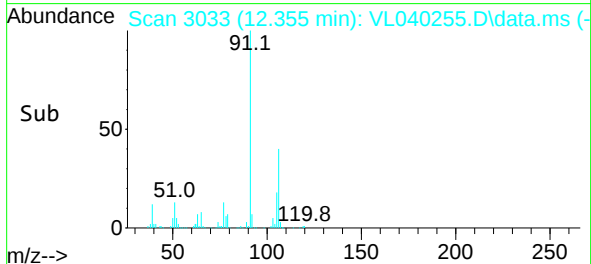
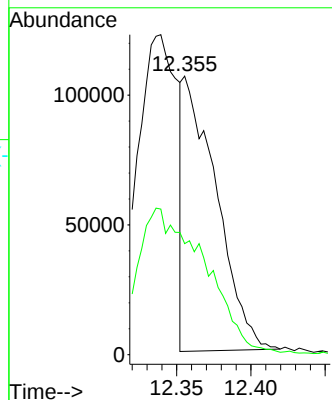
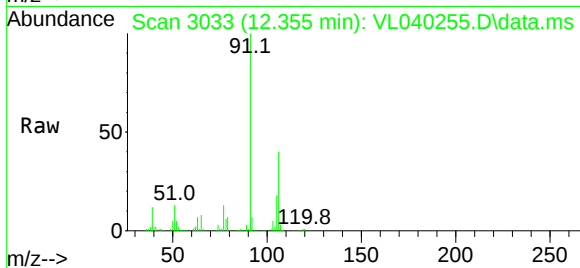
DC-3723-SS

Tgt Ion: 91 Resp: 164835

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#



#60

o-Xylene

Concen: 0.258 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. -0.035 min

Lab File: VL040255.D

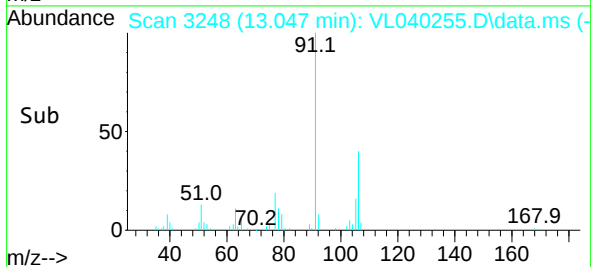
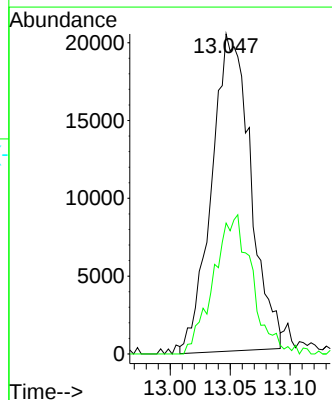
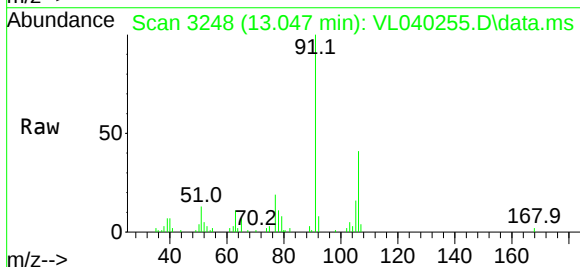
Acq: 8 Mar 2023 15:37

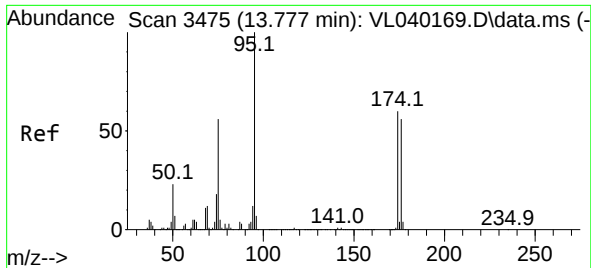
Tgt Ion: 91 Resp: 46046

Ion Ratio Lower Upper

91 100

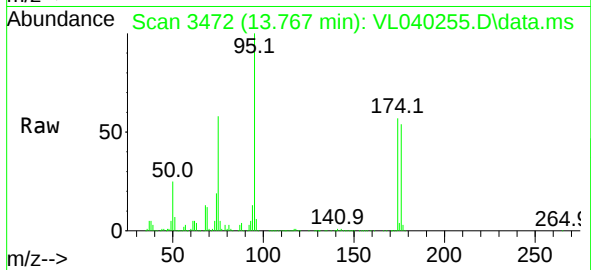
106 43.9 21.6 65.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.796 ppbv
 RT: 13.767 min Scan# 34
 Delta R.T. -0.029 min
 Lab File: VL040255.D
 Acq: 8 Mar 2023 15:37

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-3723-SS



Tgt Ion: 95 Resp: 1387599

Ion	Ratio	Lower	Upper
95	100		
174	60.2	48.2	72.2
175	4.1	3.4	5.2

