

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040155.D
 Acq On : 6 Feb 2023 21:01
 Operator : SY/MD
 Sample : 01438-07DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 07 05:59:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 31 05:24:57 2023
 Response via : Initial Calibration

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

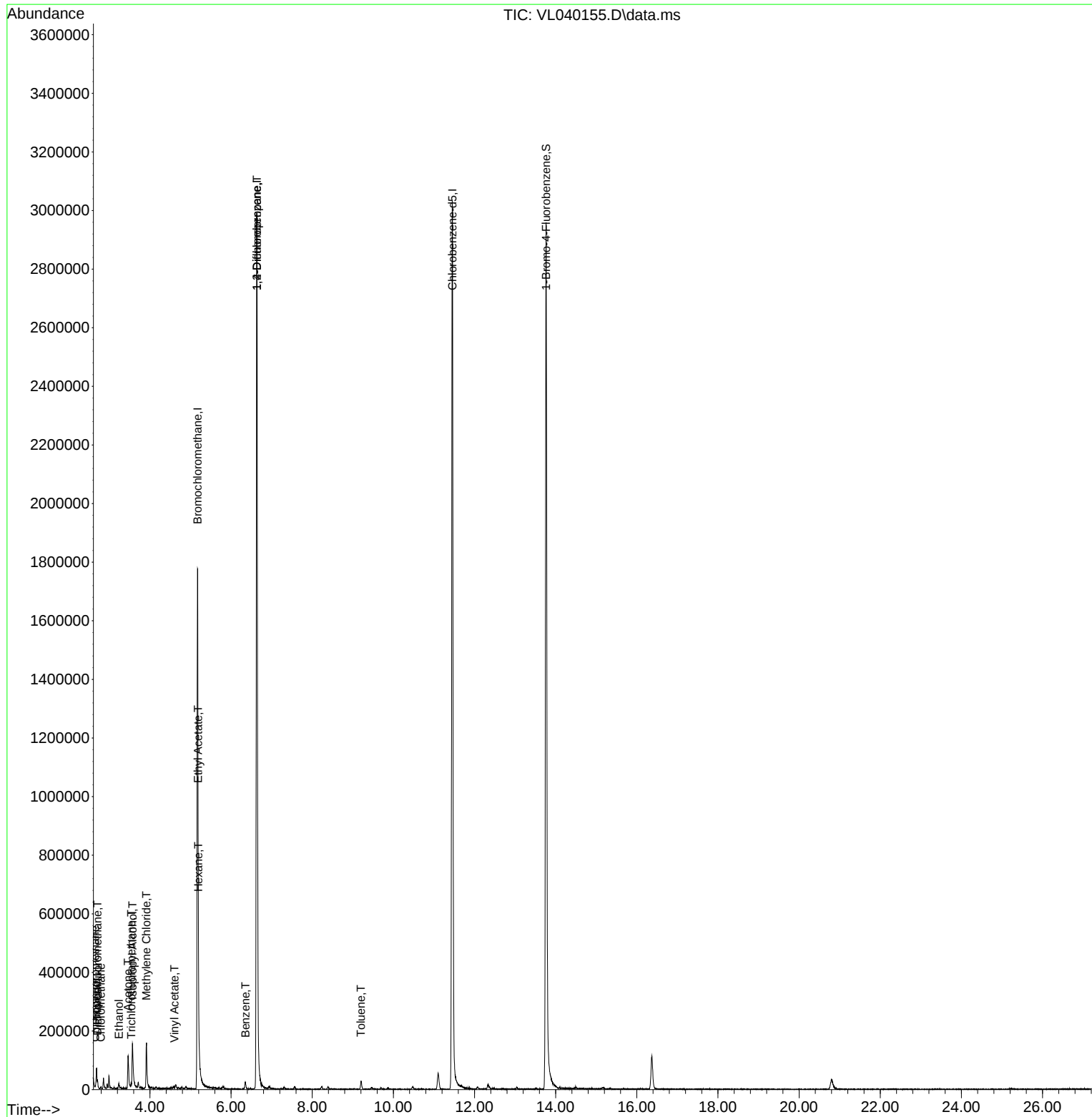
Internal Standards						
1) Bromochloromethane	5.173	49	876212	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.636	114	2295950	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	1961527	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1516073	9.300	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	15106	0.098	ppbv	89
3) Chlorodifluoromethane	2.652	51	5335	0.051	ppbv	91
4) Chloromethane	2.793	50	4978	0.077	ppbv	96
9) Propene	2.684	41	10072	0.231	ppbv #	53
11) Trichlorofluoromethane	3.542	101	5841	0.038	ppbv	93
13) Ethanol	3.234	45	16651	4.143	ppbv	89
15) Acetone	3.462	43	105284	1.002	ppbv	98
19) Isopropyl Alcohol	3.571	45	170700	3.320	ppbv #	96
20) Methylene Chloride	3.912	84	51802	1.117	ppbv	93
23) Vinyl Acetate	4.607	43	1199	0.035	ppbv #	25
25) Ethyl Acetate	5.189	43	5578	0.030	ppbv #	74
26) Hexane	5.195	57	17221	0.213	ppbv #	36
36) Benzene	6.356	78	8865	0.052	ppbv #	91
39) 1,2-Dichloropropane	6.636	63	573296	8.626	ppbv #	23
53) Toluene	9.201	91	19763	0.109	ppbv	97

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

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Quant Time: Feb 07 05:59:28 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 31 05:24:57 2023
Response via : Initial Calibration

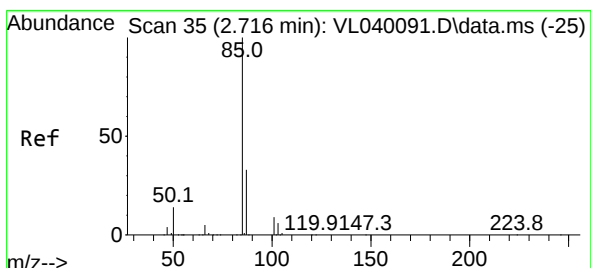
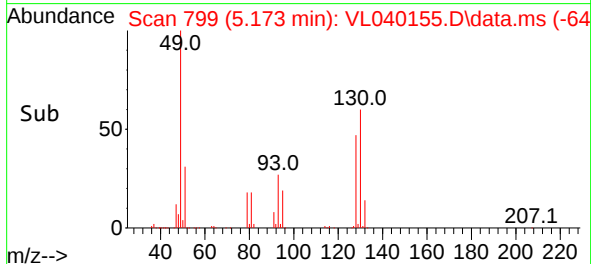
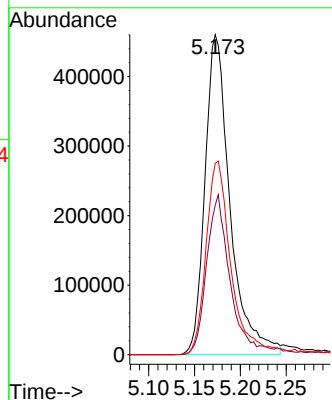
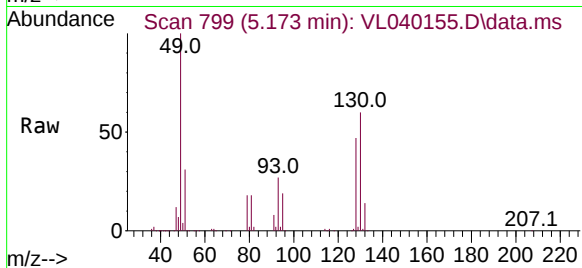




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 79
Delta R.T. -0.006 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

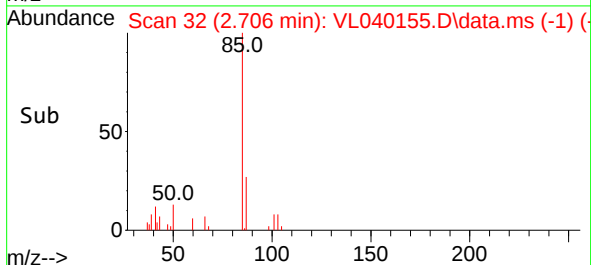
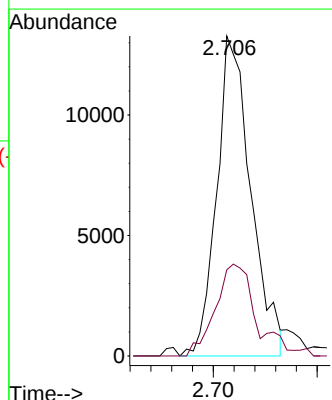
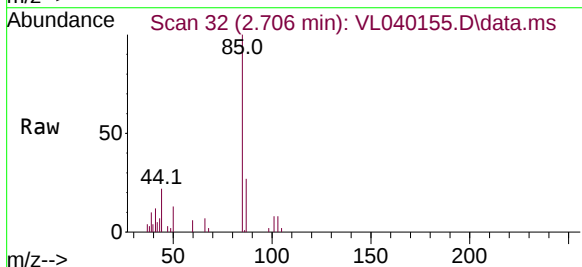
Instrument :
MSVOA_L
ClientSampleId :

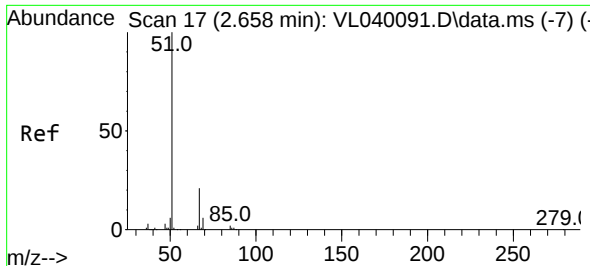
Tgt Ion: 49 Resp: 876212
Ion Ratio Lower Upper
49 100
128 49.6 23.6 71.0
130 62.7 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.098 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.006 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

Tgt Ion: 85 Resp: 15106
Ion Ratio Lower Upper
85 100
87 26.9 26.5 39.7

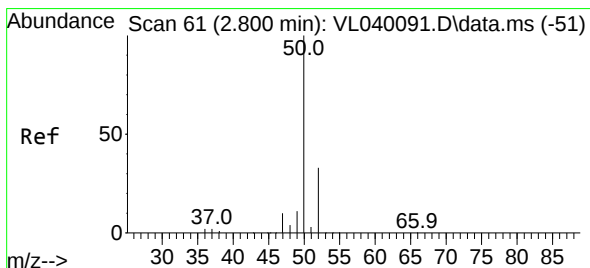
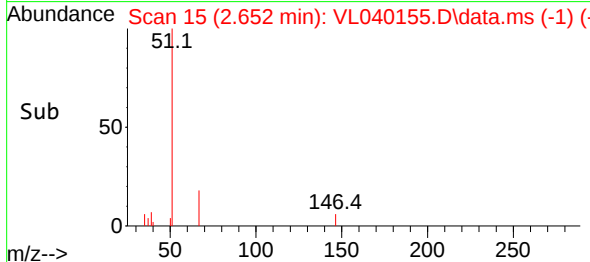
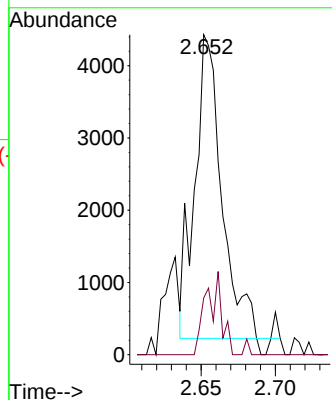
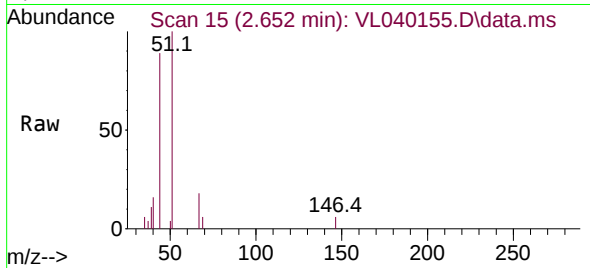




#3
Chlorodifluoromethane
Concen: 0.051 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

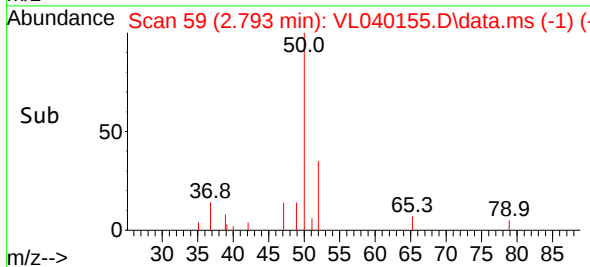
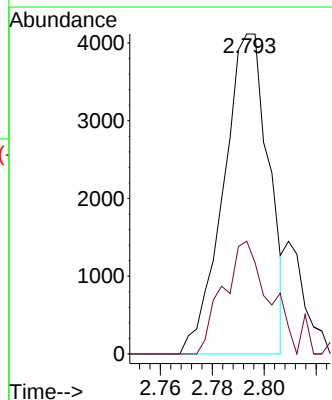
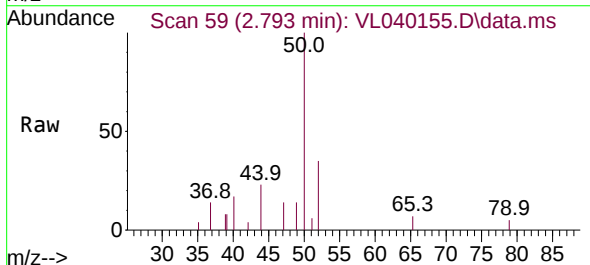
Instrument :
MSVOA_L
ClientSampleId :

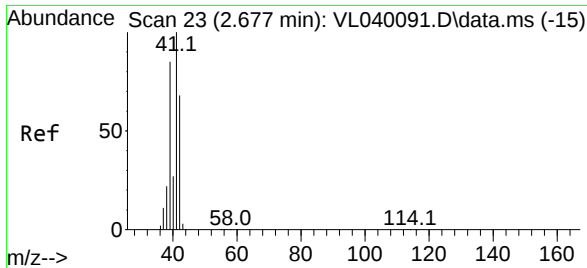
Tgt Ion: 51 Resp: 5335
Ion Ratio Lower Upper
51 100
67 16.5 16.4 24.6



#4
Chloromethane
Concen: 0.077 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.000 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

Tgt Ion: 50 Resp: 4978
Ion Ratio Lower Upper
50 100
52 35.3 26.5 39.7





#9

Propene

Concen: 0.231 ppbv

RT: 2.684 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL040155.D

Acq: 6 Feb 2023 21:01

Instrument :

MSVOA_L

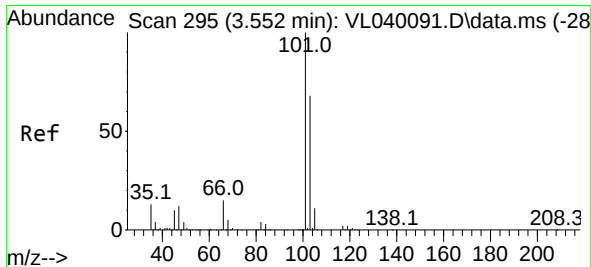
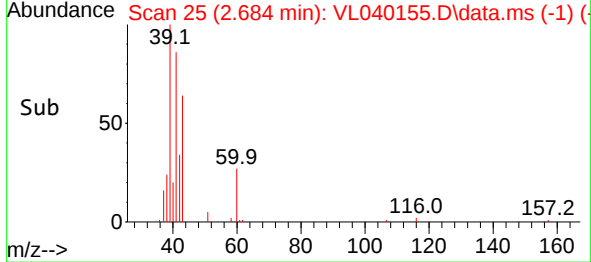
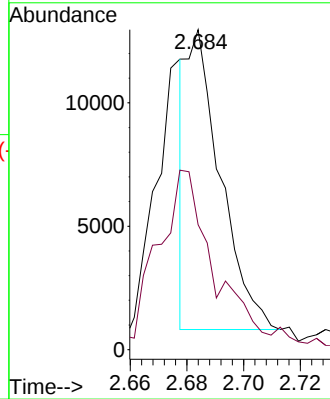
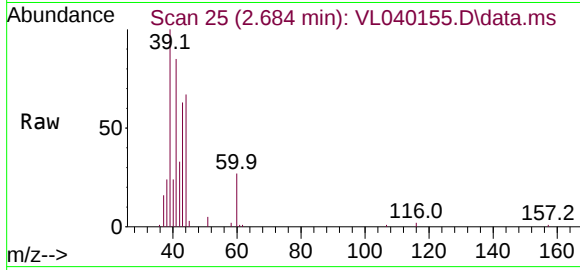
ClientSampleId :

Tgt Ion: 41 Resp: 10072

Ion Ratio Lower Upper

41 100

42 107.9 55.6 83.4#



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 3.542 min Scan# 292

Delta R.T. -0.003 min

Lab File: VL040155.D

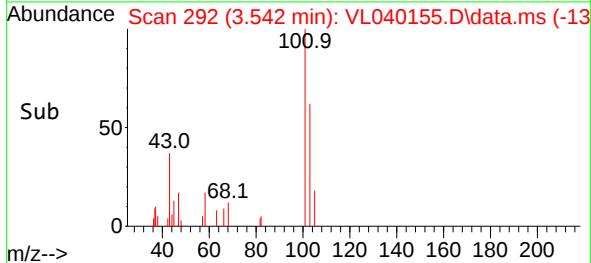
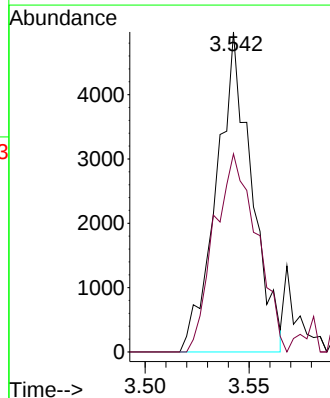
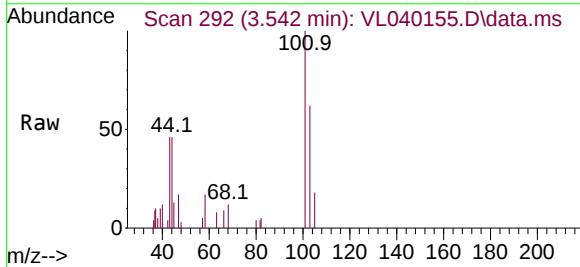
Acq: 6 Feb 2023 21:01

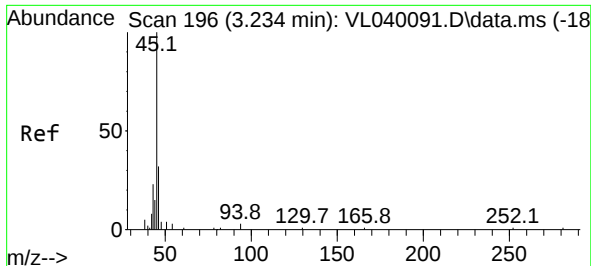
Tgt Ion:101 Resp: 5841

Ion Ratio Lower Upper

101 100

103 61.9 54.0 81.0

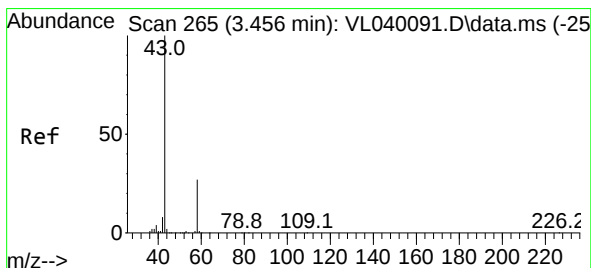
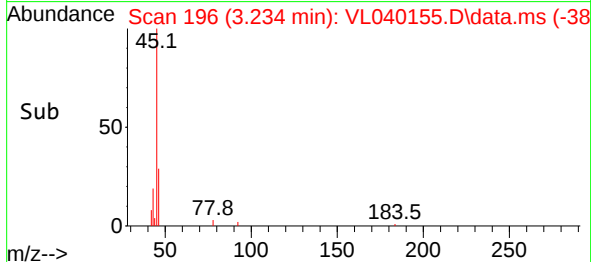
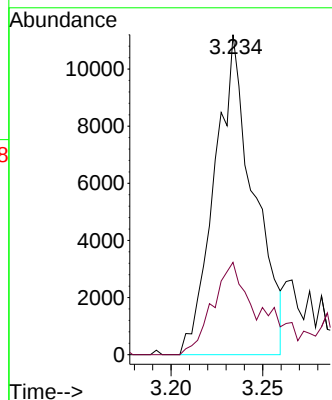
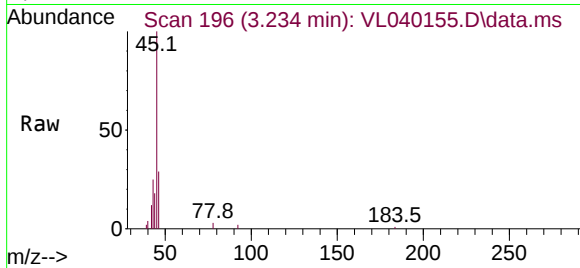




#13
Ethanol
Concen: 4.143 ppbv
RT: 3.234 min Scan# 196
Delta R.T. 0.007 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

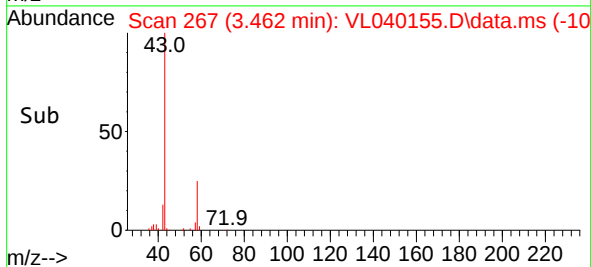
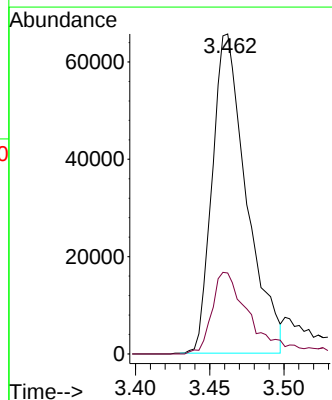
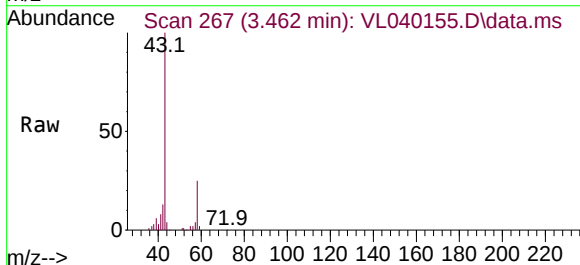
Instrument :
MSVOA_L
ClientSampleId :

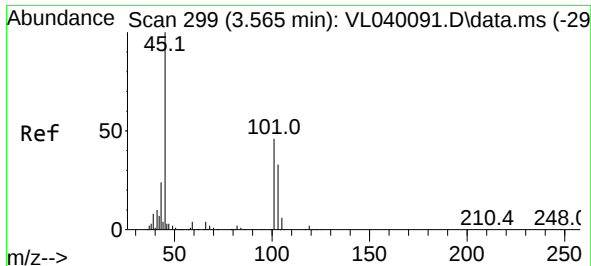
Tgt Ion: 45 Resp: 16651
Ion Ratio Lower Upper
45 100
46 43.8 14.8 59.2



#15
Acetone
Concen: 1.002 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.013 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

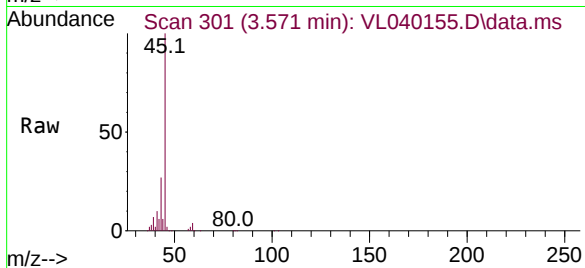
Tgt Ion: 43 Resp: 105284
Ion Ratio Lower Upper
43 100
58 28.5 21.8 32.8



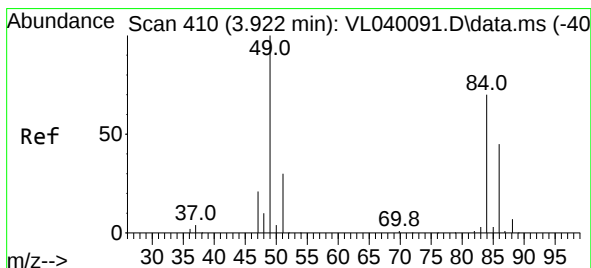
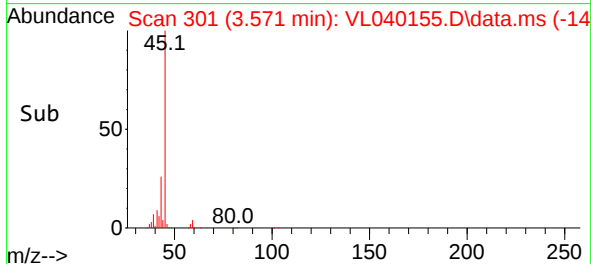
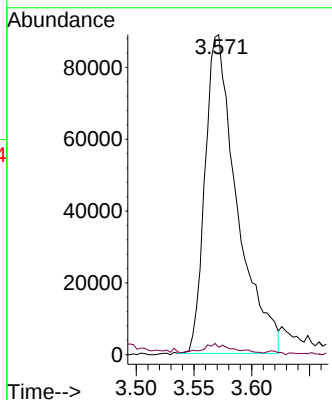


#19
Isopropyl Alcohol
Concen: 3.320 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.013 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

Instrument :
MSVOA_L
ClientSampleId :

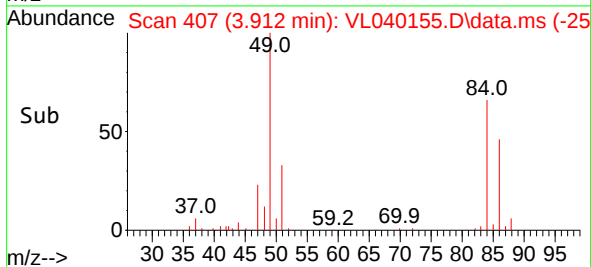
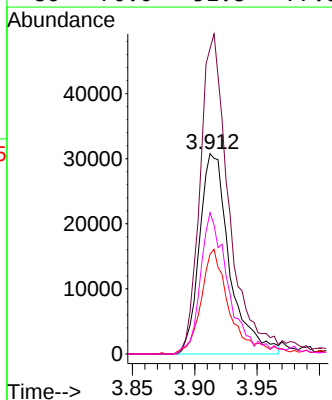
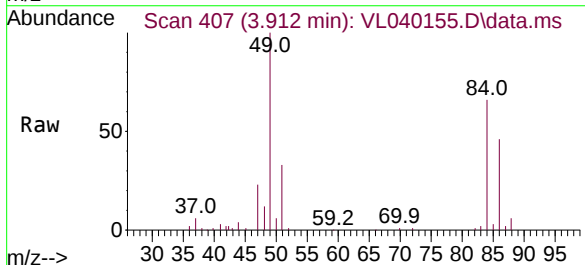


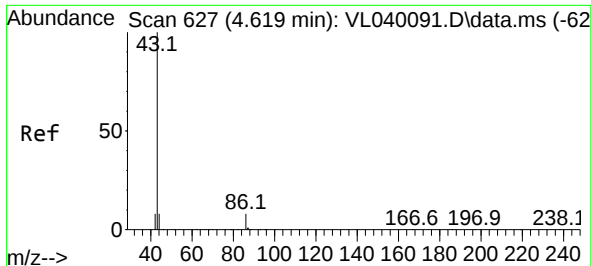
Tgt Ion: 45 Resp: 170700
Ion Ratio Lower Upper
45 100
58 4.6 2.6 4.0#



#20
Methylene Chloride
Concen: 1.117 ppbv
RT: 3.912 min Scan# 407
Delta R.T. -0.003 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

Tgt Ion: 84 Resp: 51802
Ion Ratio Lower Upper
84 100
49 151.8 114.6 171.8
51 48.4 34.3 51.5
86 70.0 51.8 77.8



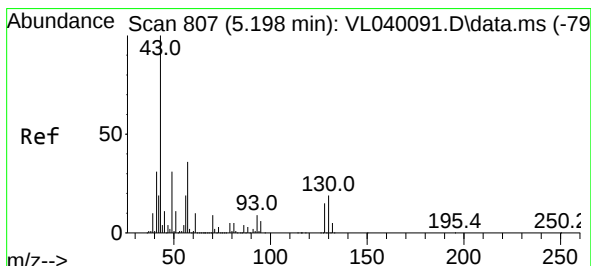
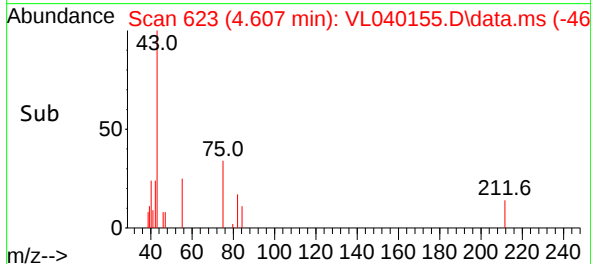
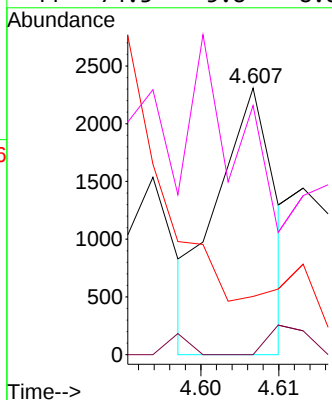
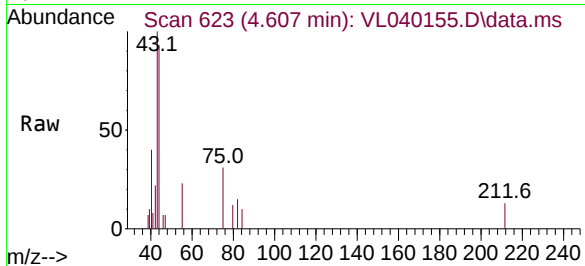


#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 4.607 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040155.D
 Acq: 6 Feb 2023 21:01

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 1199

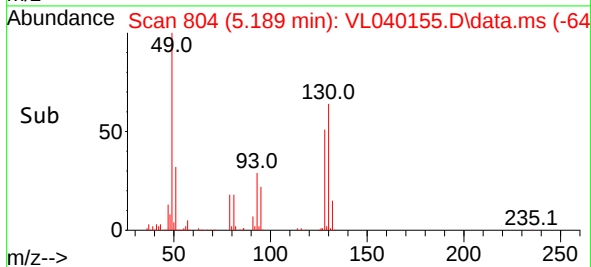
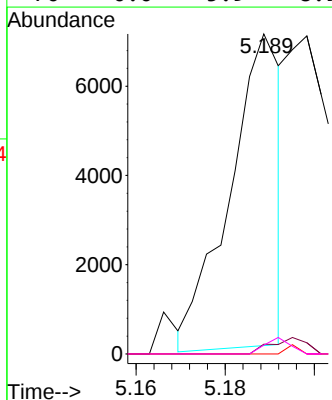
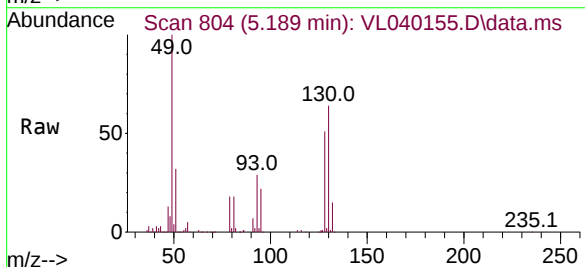
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#
42	0.0	7.7	11.5#
44	74.3	5.8	8.8#

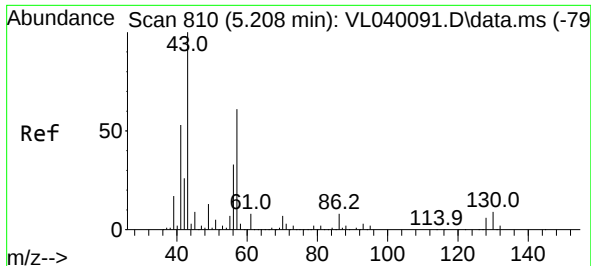


#25
 Ethyl Acetate
 Concen: 0.030 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. 0.000 min
 Lab File: VL040155.D
 Acq: 6 Feb 2023 21:01

Tgt Ion: 43 Resp: 5578

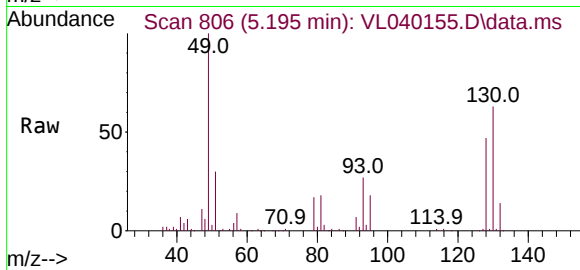
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.5	12.7#
61	0.0	8.4	12.6#
70	0.0	5.9	8.9#



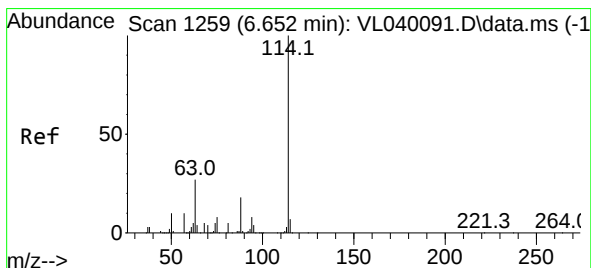
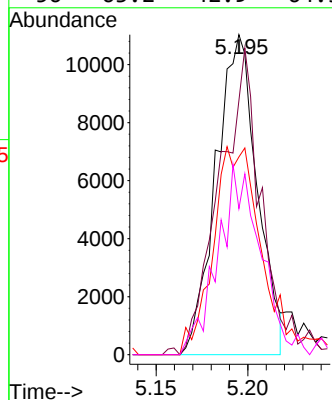
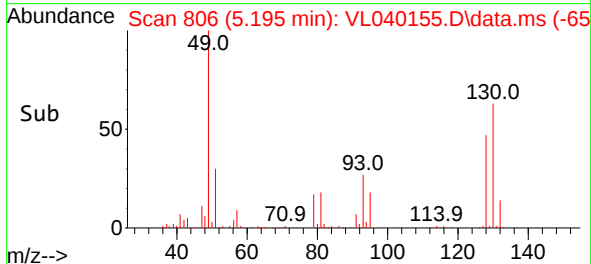


#26
Hexane
Concen: 0.213 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

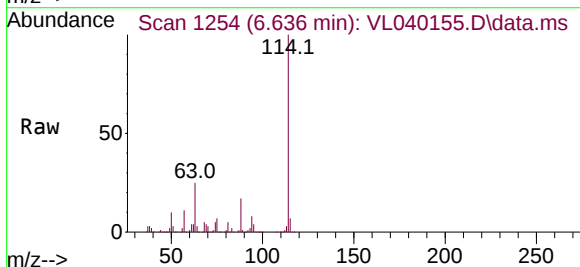
Instrument :
MSVOA_L
ClientSampleId :



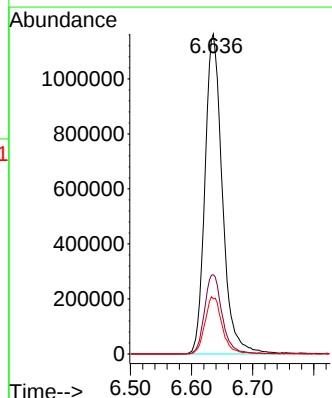
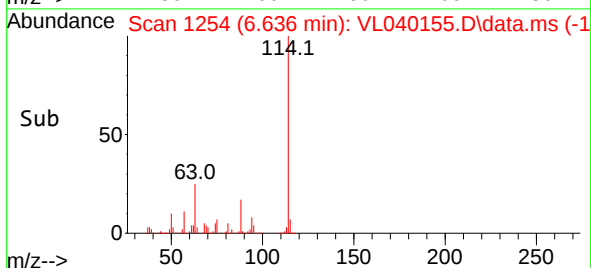
Tgt Ion: 57	Resp: 17221
Ion Ratio	Lower Upper
57 100	
41 101.0	72.2 108.4
43 79.7	192.1 288.1#
56 63.2	42.9 64.3

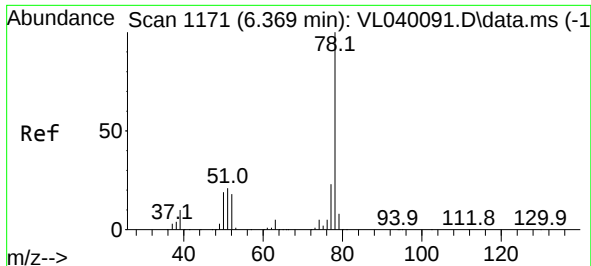


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. -0.006 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01



Tgt Ion:114	Resp: 2295950		
Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.8	32.8
88	17.8	14.8	22.2

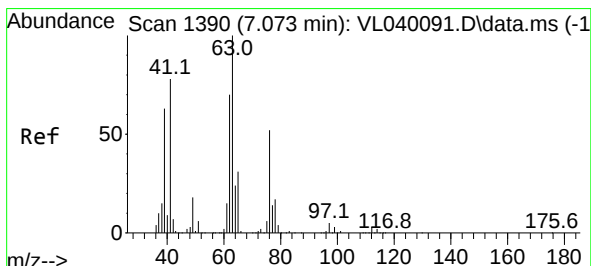
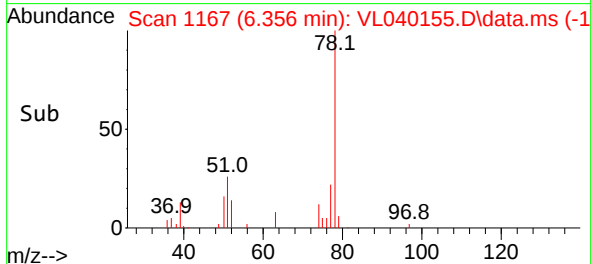
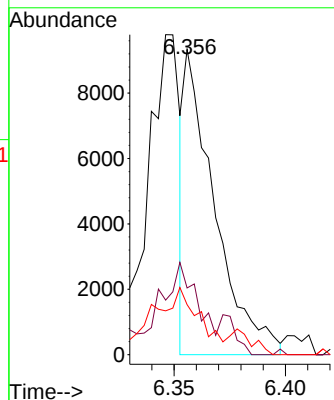
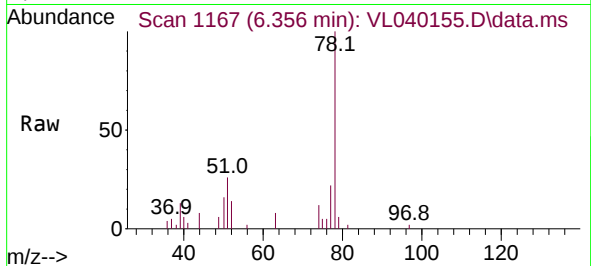




#36
Benzene
Concen: 0.052 ppbv
RT: 6.356 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

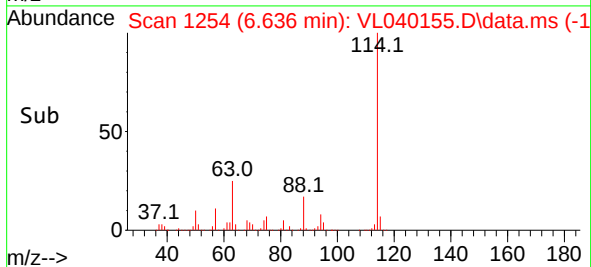
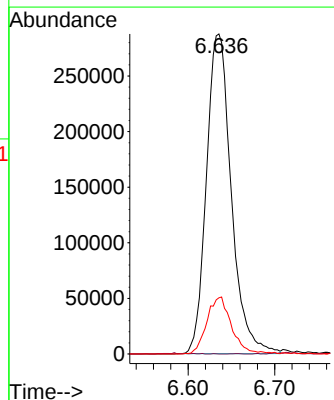
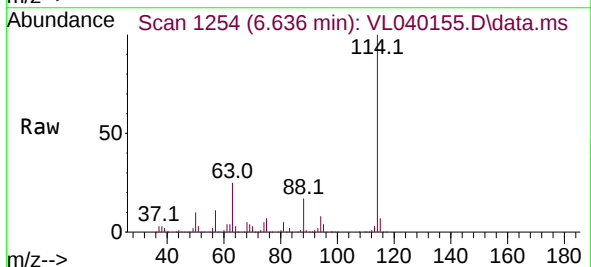
Instrument :
MSVOA_L
ClientSampleId :

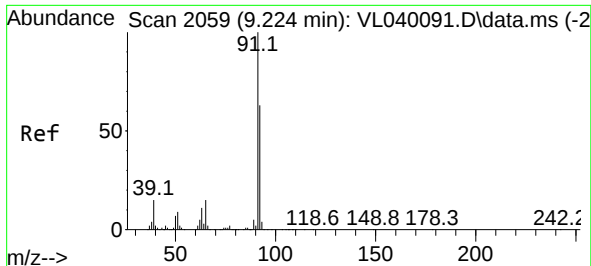
Tgt Ion: 78 Resp: 8865
Ion Ratio Lower Upper
78 100
77 17.0 18.1 27.1#
50 17.1 15.6 23.4



#39
1,2-Dichloropropane
Concen: 8.626 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. -0.427 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

Tgt Ion: 63 Resp: 573296
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 17.6 55.8 83.8#

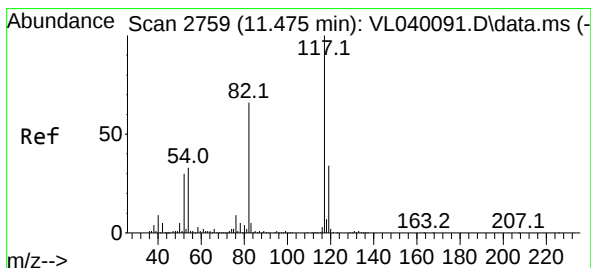
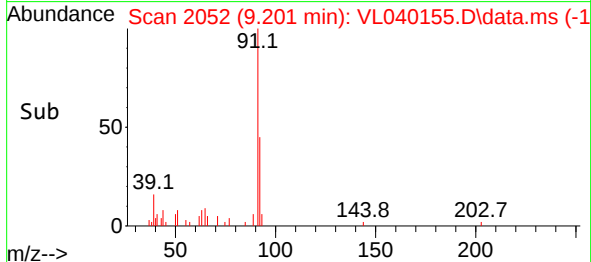
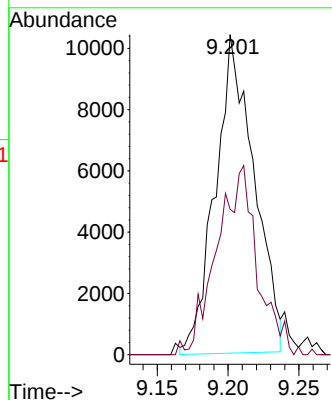
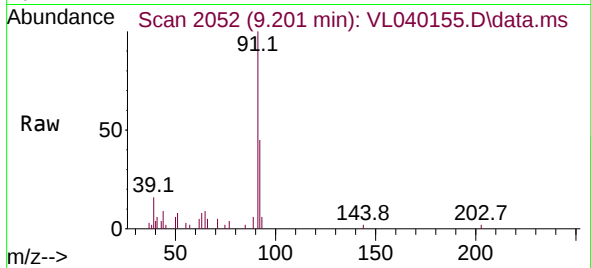




#53
Toluene
Concen: 0.109 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.009 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

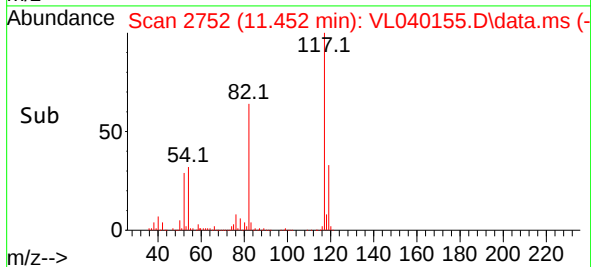
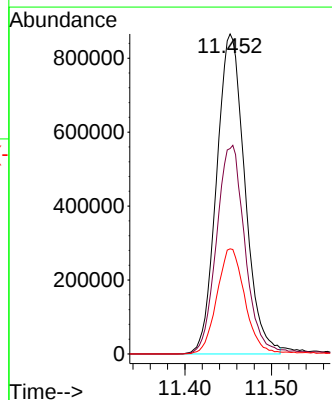
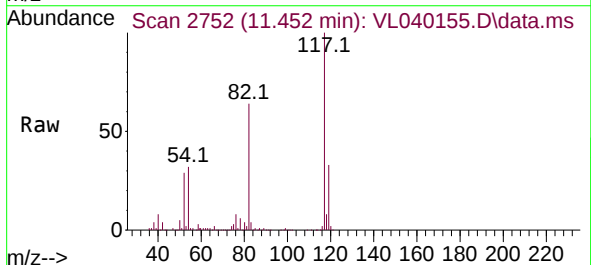
Instrument :
MSVOA_L
ClientSampleId :

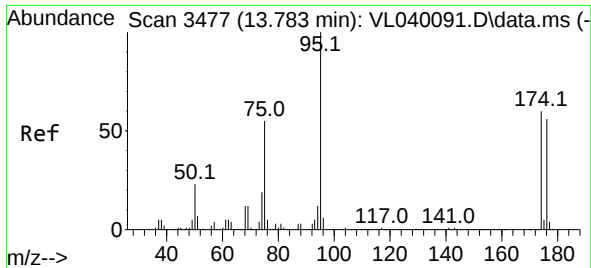
Tgt Ion: 91 Resp: 19763
Ion Ratio Lower Upper
91 100
92 62.3 48.3 72.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.006 min
Lab File: VL040155.D
Acq: 6 Feb 2023 21:01

Tgt Ion: 117 Resp: 1961527
Ion Ratio Lower Upper
117 100
82 67.1 54.4 81.6
119 33.2 26.8 40.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.300 ppbv
 RT: 13.764 min Scan# 34
 Delta R.T. -0.006 min
 Lab File: VL040155.D
 Acq: 6 Feb 2023 21:01

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 95 Resp: 1516073

Ion	Ratio	Lower	Upper
95	100		
174	60.8	47.7	71.5
175	4.3	3.4	5.2

