

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040153.D
 Acq On : 6 Feb 2023 19:42
 Operator : SY/MD
 Sample : 01438-06DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 07 05:58:43 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)

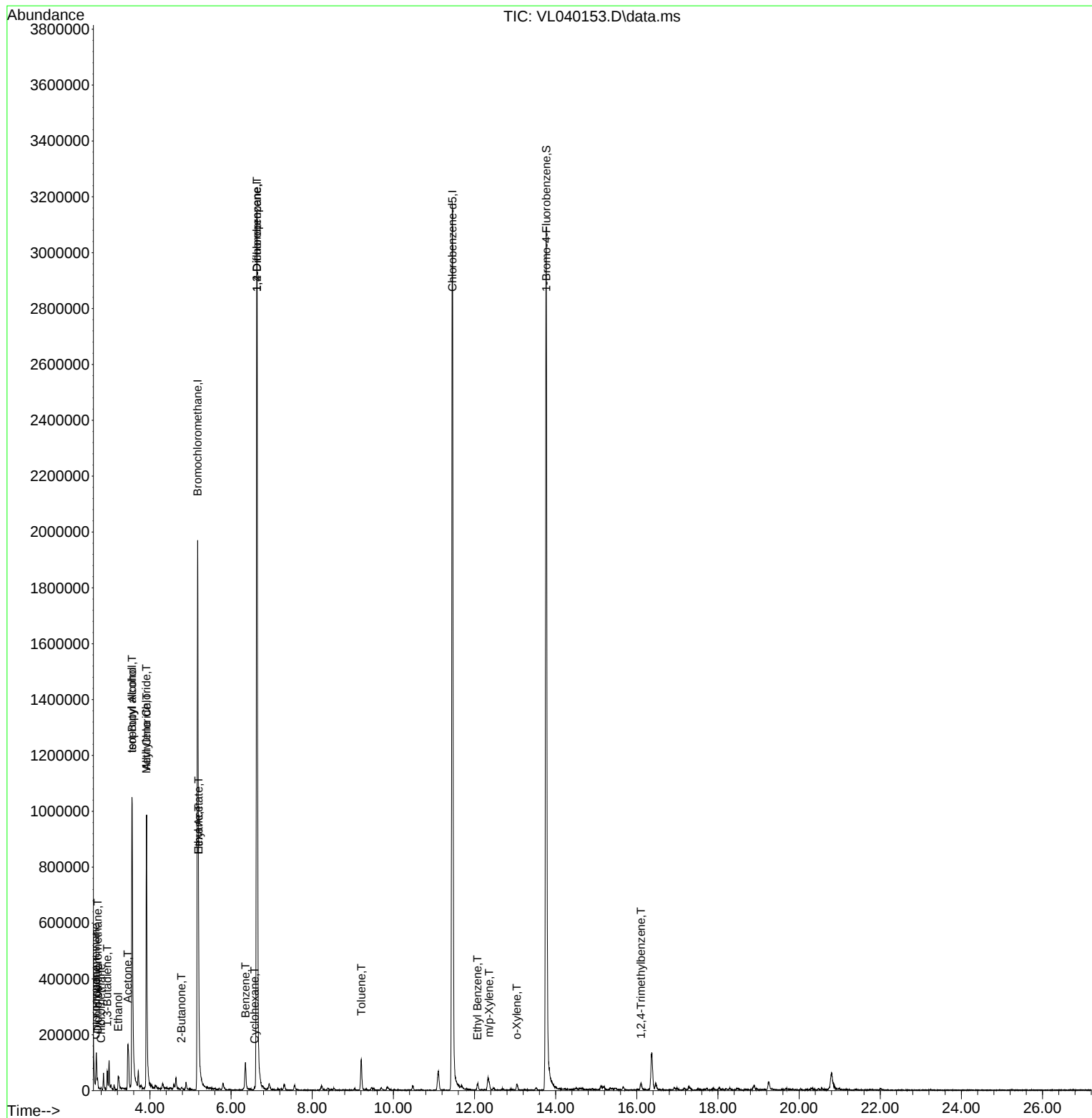
Internal Standards						
1) Bromochloromethane	5.176	49	927803	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2431885	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2082968	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1619337	9.354	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	17446	0.107	ppbv	98
3) Chlorodifluoromethane	2.658	51	8347	0.075	ppbv #	87
4) Chloromethane	2.797	50	6015	0.087	ppbv	98
9) Propene	2.678	41	52904	1.144	ppbv	95
13) Ethanol	3.218	45	29393	6.907	ppbv #	23
15) Acetone	3.452	43	174998	1.573	ppbv	93
16) 1,3-Butadiene	2.948	39	18051	0.348	ppbv #	36
17) tert-Butyl alcohol	3.559	59	41891	0.404	ppbv	97
19) Isopropyl Alcohol	3.559	45	1232519	22.639	ppbv #	96
20) Methylene Chloride	3.915	84	343635	7.000	ppbv	97
21) Allyl Chloride	3.919	41	4328	0.061	ppbv #	83
25) Ethyl Acetate	5.198	43	73427	0.375	ppbv #	75
26) Hexane	5.198	57	105629	1.231	ppbv #	38
30) Cyclohexane	6.581	84	2512	0.037	ppbv #	9
34) 2-Butanone	4.777	43	4255	0.037	ppbv #	32
36) Benzene	6.356	78	68001	0.378	ppbv	97
39) 1,2-Dichloropropane	6.639	63	598736	8.506	ppbv #	23
53) Toluene	9.211	91	82165	0.428	ppbv	99
58) Ethyl Benzene	12.069	91	8413	0.036	ppbv	96
59) m/p-Xylene	12.359	91	6888	0.033	ppbv #	33
60) o-Xylene	13.044	91	9756	0.049	ppbv #	33
74) 1,2,4-Trimethylbenzene	16.101	105	10248	0.047	ppbv #	67

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

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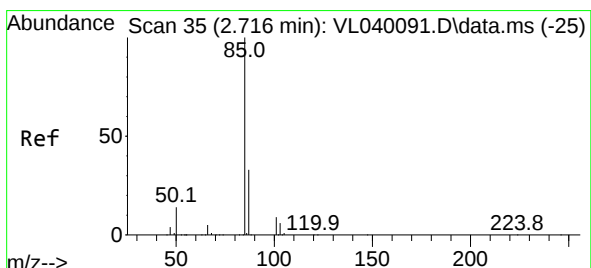
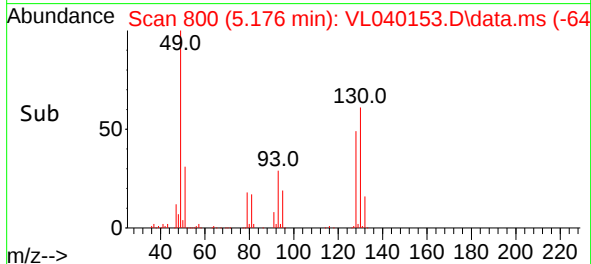
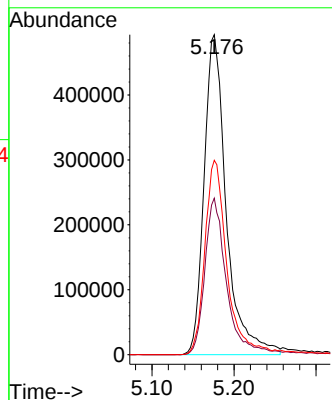
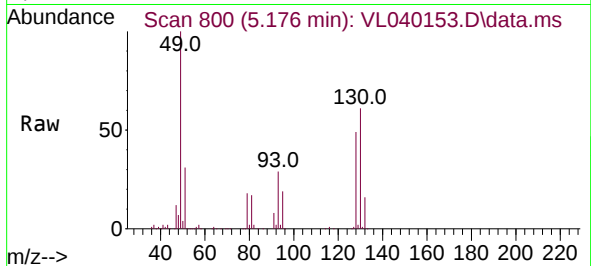




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

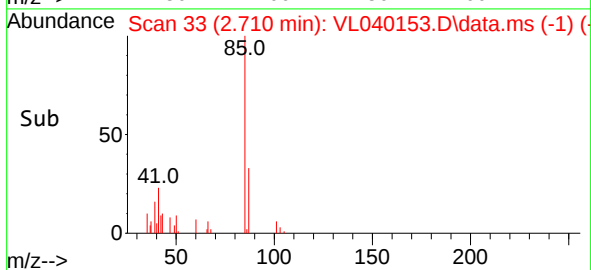
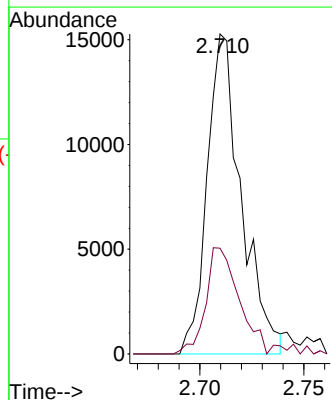
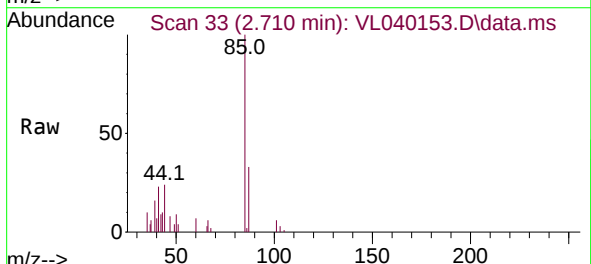
Instrument :
MSVOA_L
ClientSampleId :

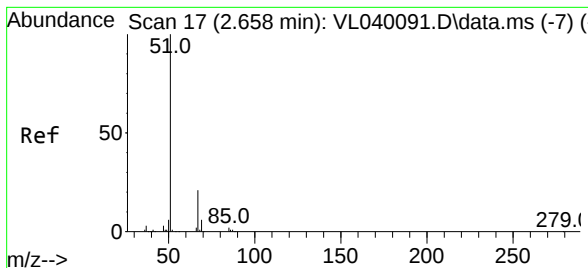
Tgt Ion: 49 Resp: 927803
Ion Ratio Lower Upper
49 100
128 48.9 23.6 71.0
130 62.1 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.107 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.003 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

Tgt Ion: 85 Resp: 17446
Ion Ratio Lower Upper
85 100
87 32.0 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.075 ppbv

RT: 2.658 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040153.D

Acq: 6 Feb 2023 19:42

Instrument :

MSVOA_L

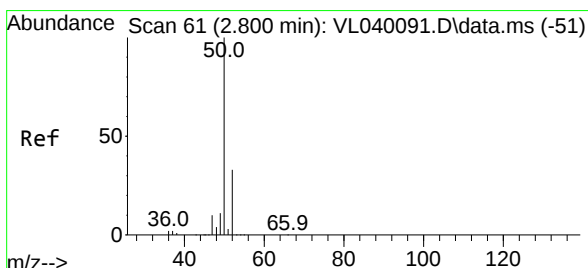
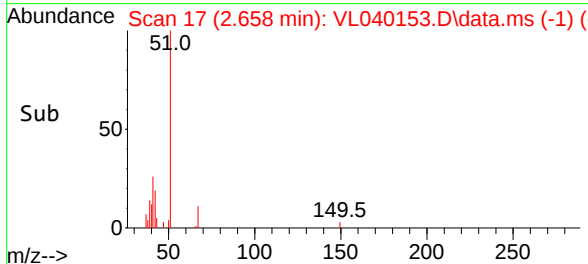
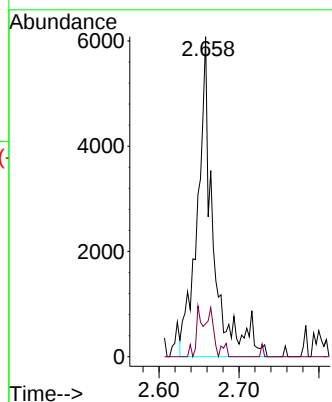
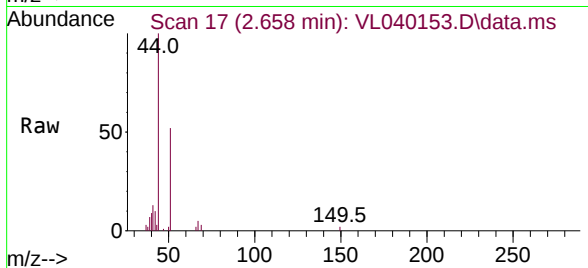
ClientSampleId :

Tgt Ion: 51 Resp: 8347

Ion Ratio Lower Upper

51 100

67 14.4 16.4 24.6#



#4

Chloromethane

Concen: 0.087 ppbv

RT: 2.797 min Scan# 60

Delta R.T. 0.003 min

Lab File: VL040153.D

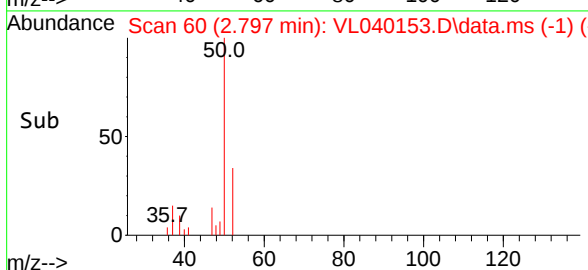
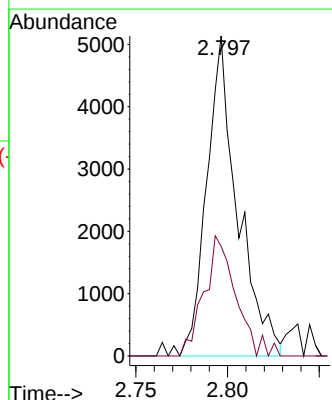
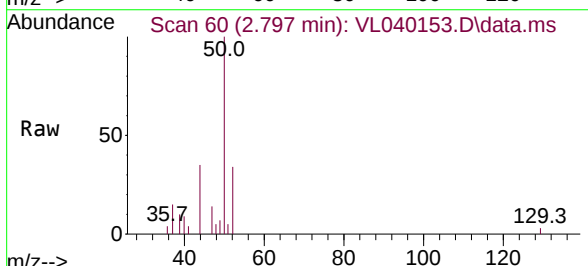
Acq: 6 Feb 2023 19:42

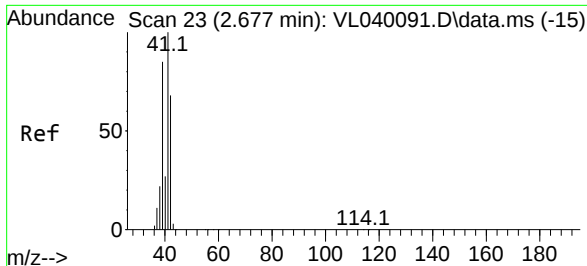
Tgt Ion: 50 Resp: 6015

Ion Ratio Lower Upper

50 100

52 34.2 26.5 39.7

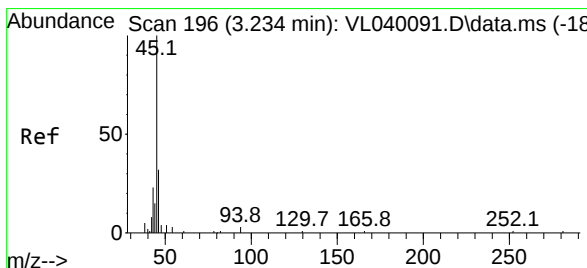
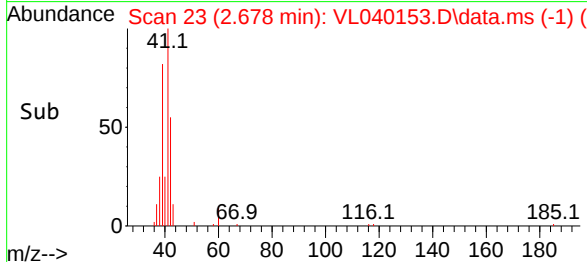
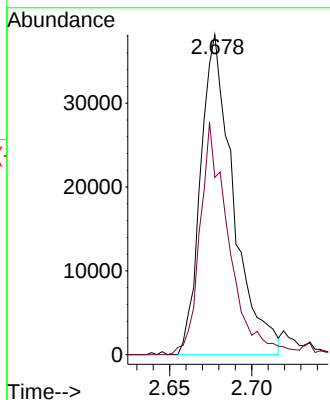
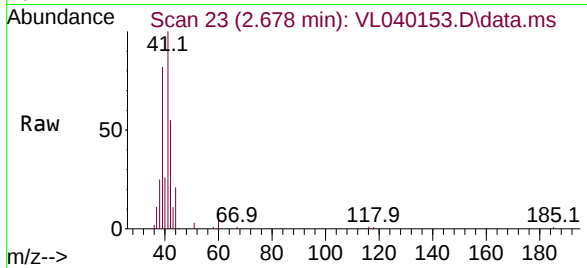




#9
 Propene
 Concen: 1.144 ppbv
 RT: 2.678 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VL040153.D
 Acq: 6 Feb 2023 19:42

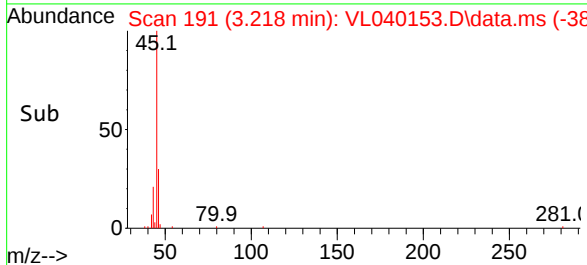
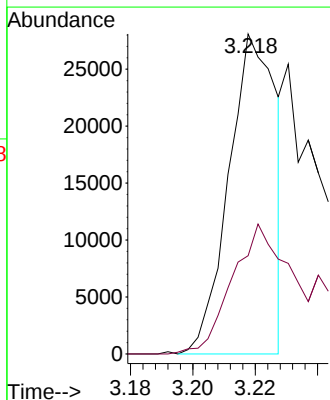
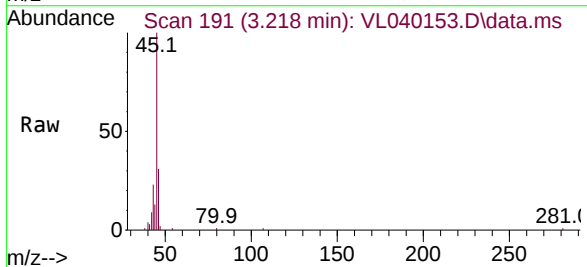
Instrument :
 MSVOA_L
 ClientSampleId :

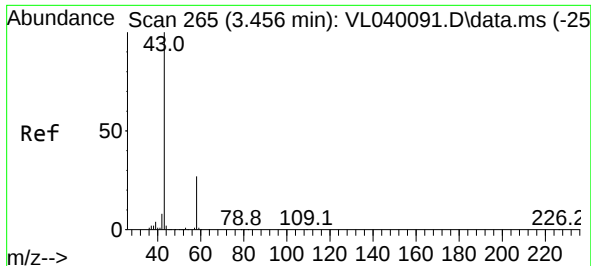
Tgt Ion: 41 Resp: 52904
 Ion Ratio Lower Upper
 41 100
 42 65.8 55.6 83.4



#13
 Ethanol
 Concen: 6.907 ppbv
 RT: 3.218 min Scan# 191
 Delta R.T. -0.009 min
 Lab File: VL040153.D
 Acq: 6 Feb 2023 19:42

Tgt Ion: 45 Resp: 29393
 Ion Ratio Lower Upper
 45 100
 46 82.7 14.8 59.2#

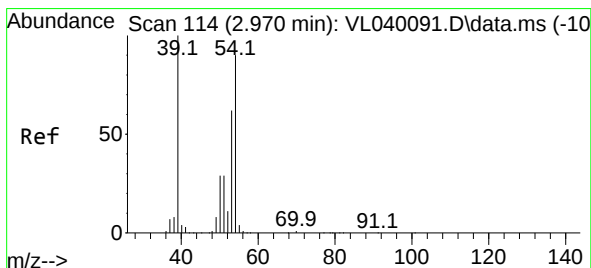
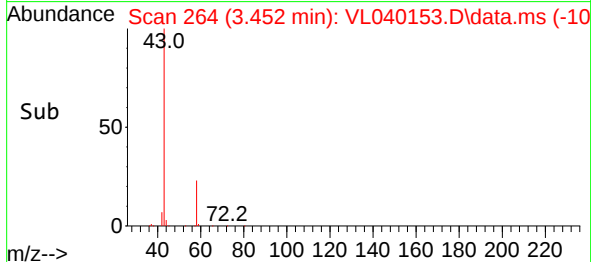
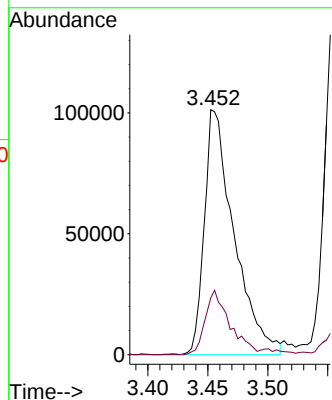
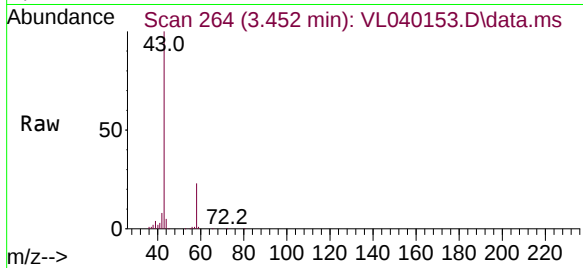




#15
Acetone
Concen: 1.573 ppbv
RT: 3.452 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

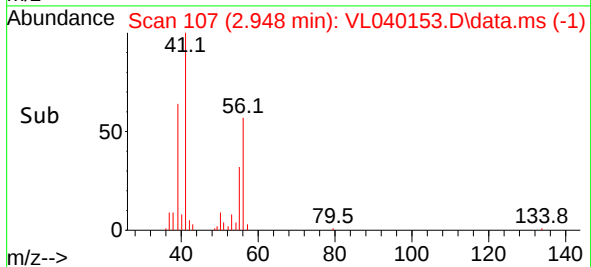
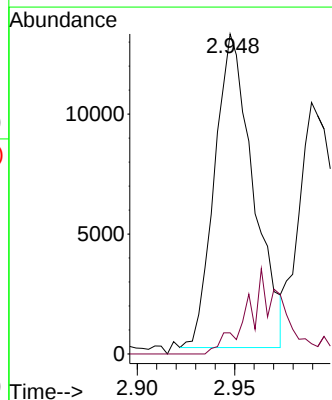
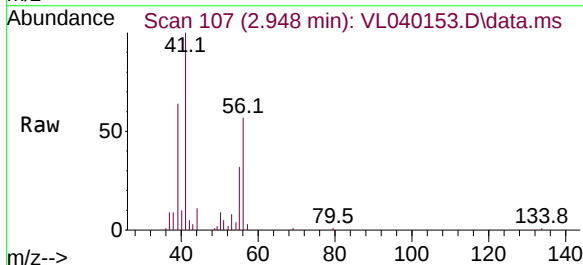
Instrument :
MSVOA_L
ClientSampleId :

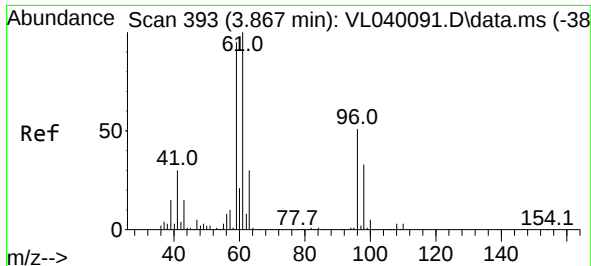
Tgt Ion: 43 Resp: 174998
Ion Ratio Lower Upper
43 100
58 23.4 21.8 32.8



#16
1,3-Butadiene
Concen: 0.348 ppbv
RT: 2.948 min Scan# 107
Delta R.T. -0.019 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

Tgt Ion: 39 Resp: 18051
Ion Ratio Lower Upper
39 100
54 27.0 67.9 101.9#





#17

tert-Butyl alcohol

Concen: 0.404 ppbv

RT: 3.559 min Scan# 297

Delta R.T. -0.302 min

Lab File: VL040153.D

Acq: 6 Feb 2023 19:42

Instrument :

MSVOA_L

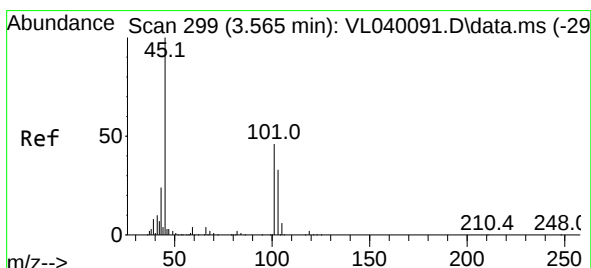
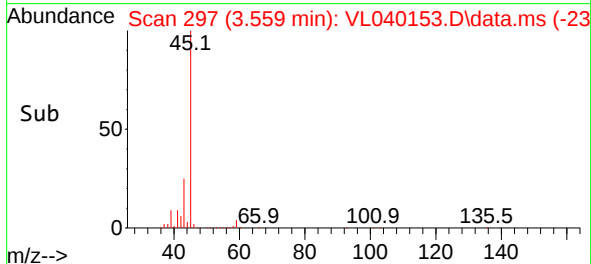
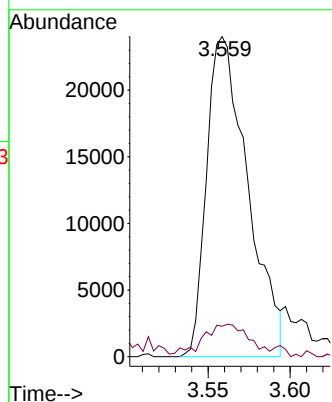
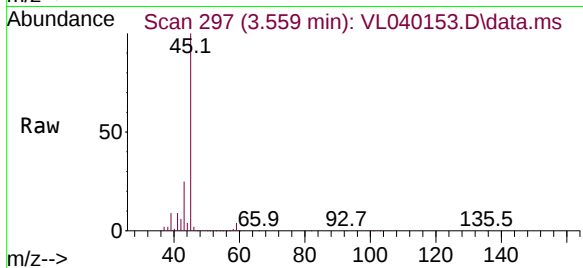
ClientSampleId :

Tgt Ion: 59 Resp: 41891

Ion Ratio Lower Upper

59 100

57 11.8 8.5 12.7



#19

Isopropyl Alcohol

Concen: 22.639 ppbv

RT: 3.559 min Scan# 297

Delta R.T. 0.000 min

Lab File: VL040153.D

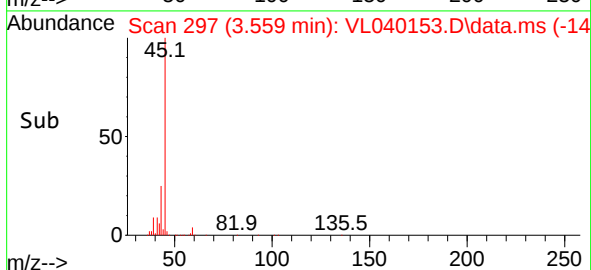
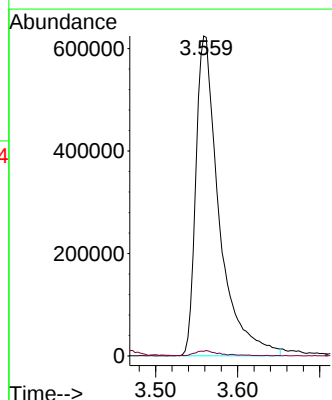
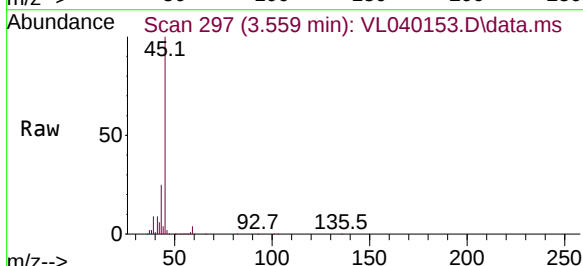
Acq: 6 Feb 2023 19:42

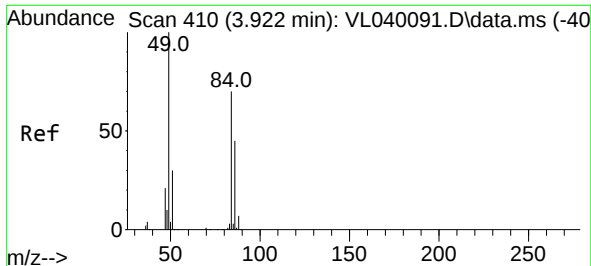
Tgt Ion: 45 Resp: 1232519

Ion Ratio Lower Upper

45 100

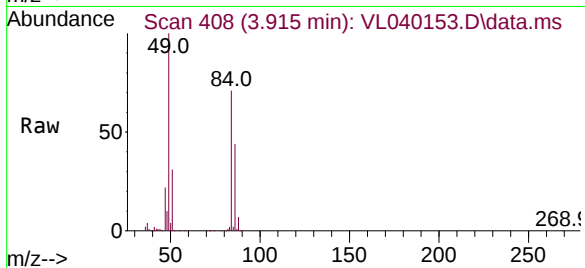
58 2.0 2.6 4.0#



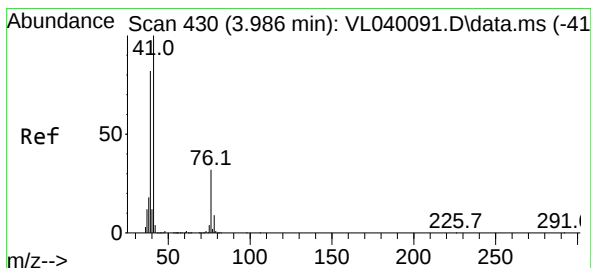
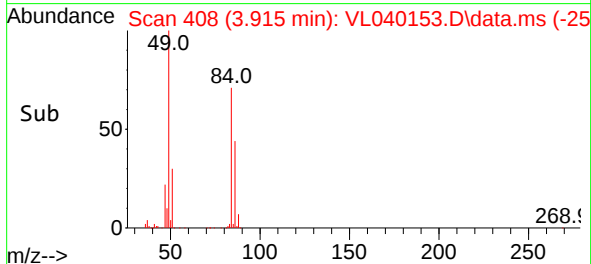
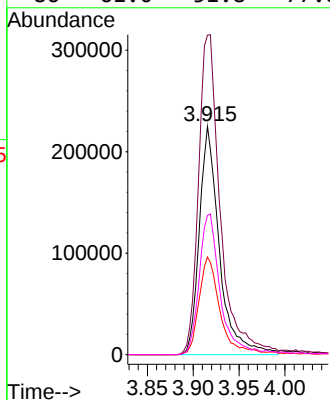


#20
Methylene Chloride
Concen: 7.000 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.000 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

Instrument :
MSVOA_L
ClientSampleId :

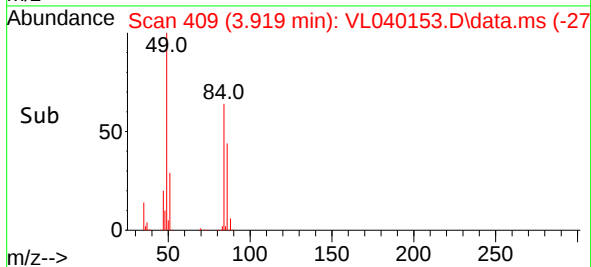
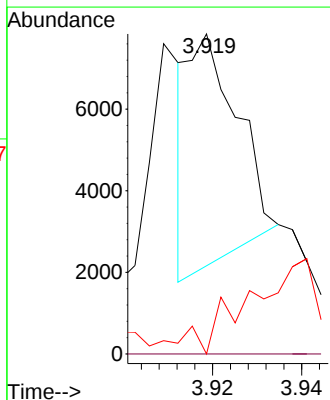
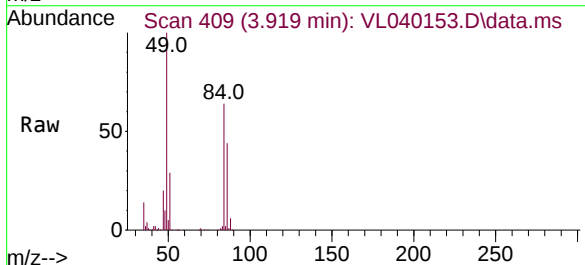


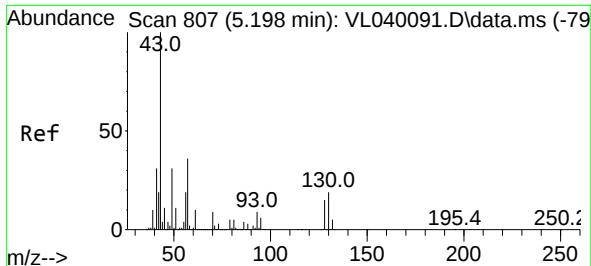
Tgt Ion: 84 Resp: 343635
Ion Ratio Lower Upper
84 100
49 139.8 114.6 171.8
51 42.6 34.3 51.5
86 61.0 51.8 77.8



#21
Allyl Chloride
Concen: 0.061 ppbv
RT: 3.919 min Scan# 409
Delta R.T. -0.061 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

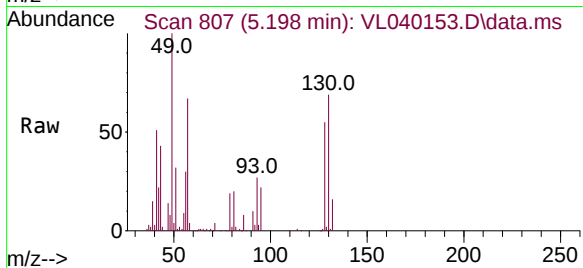
Tgt Ion: 41 Resp: 4328
Ion Ratio Lower Upper
41 100
76 4.8 25.9 38.9#
39 79.0 66.8 100.2



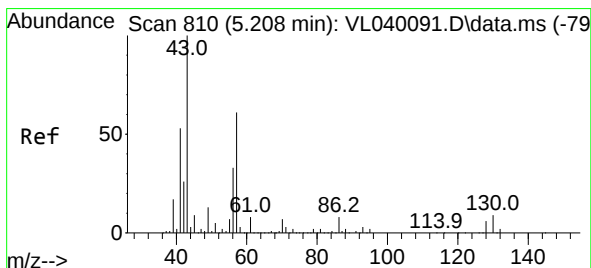
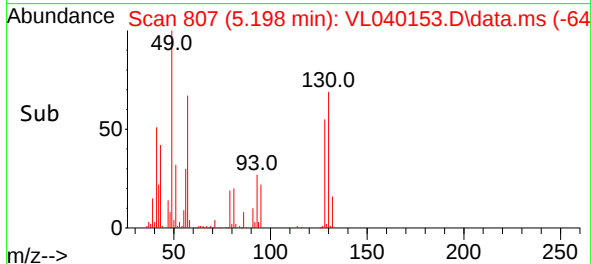
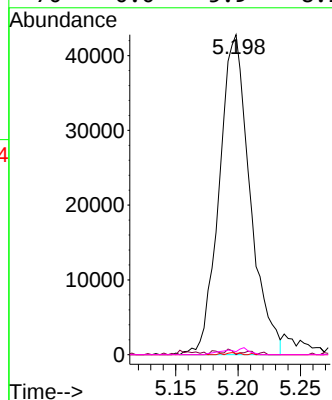


#25
Ethyl Acetate
Concen: 0.375 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.010 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

Instrument :
MSVOA_L
ClientSampleId :

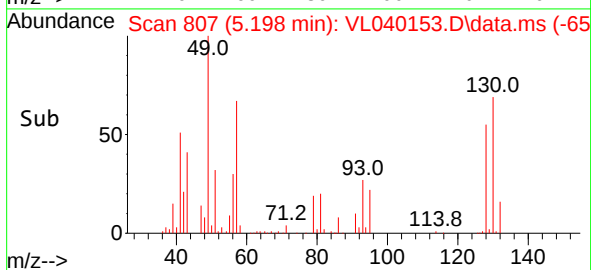
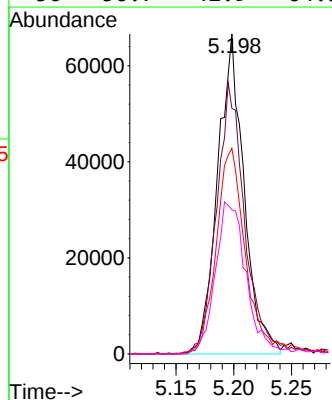
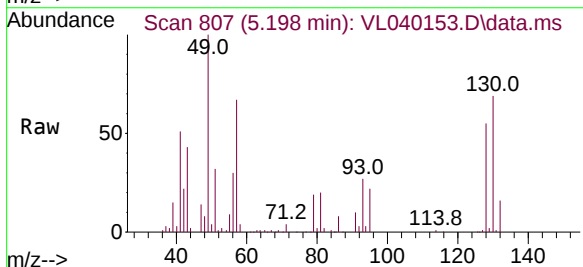


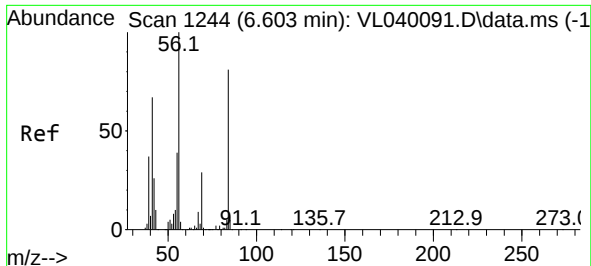
Tgt Ion:	43	Resp:	73427
Ion Ratio	Lower	Upper	
43	100		
45	1.5	8.5	12.7#
61	0.3	8.4	12.6#
70	0.0	5.9	8.9#



#26
Hexane
Concen: 1.231 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.000 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

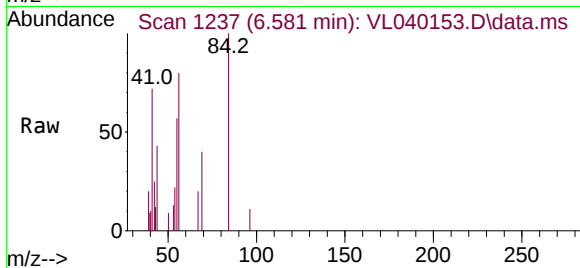
Tgt Ion:	57	Resp:	105629
Ion Ratio	Lower	Upper	
57	100		
41	91.2	72.2	108.4
43	73.9	192.1	288.1#
56	56.7	42.9	64.3



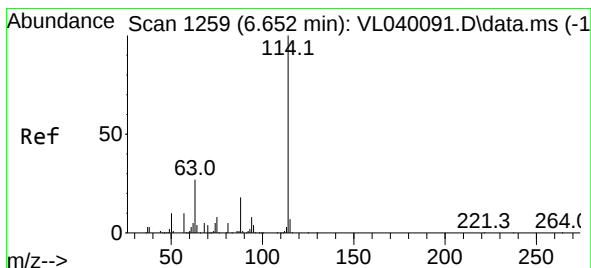
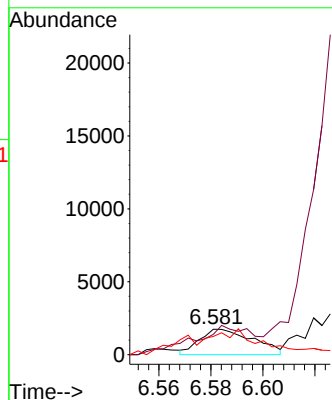
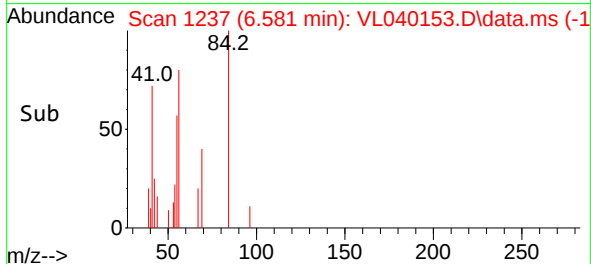


#30
Cyclohexane
Concen: 0.037 ppbv
RT: 6.581 min Scan# 1237
Delta R.T. -0.009 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

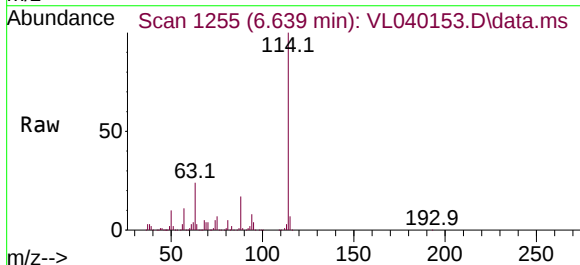
Instrument :
MSVOA_L
ClientSampleId :



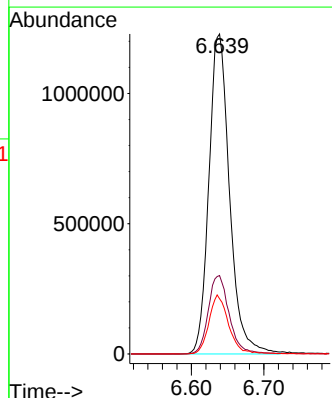
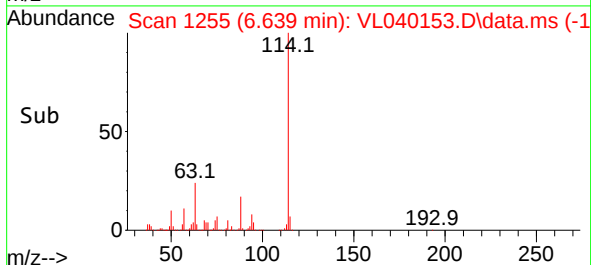
Tgt Ion: 84 Resp: 2512
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 139.5 71.4 107.0#

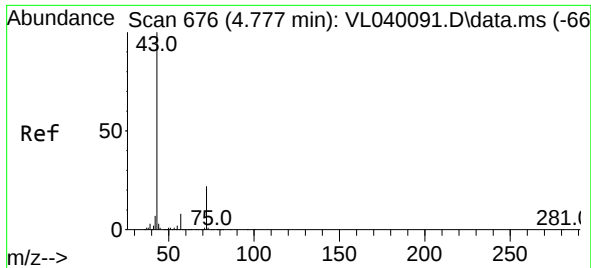


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.003 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42



Tgt Ion: 114 Resp: 2431885
Ion Ratio Lower Upper
114 100
63 24.9 21.8 32.8
88 17.8 14.8 22.2

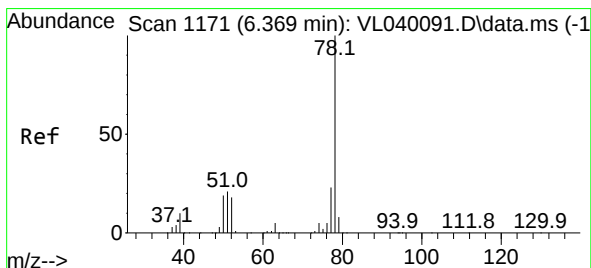
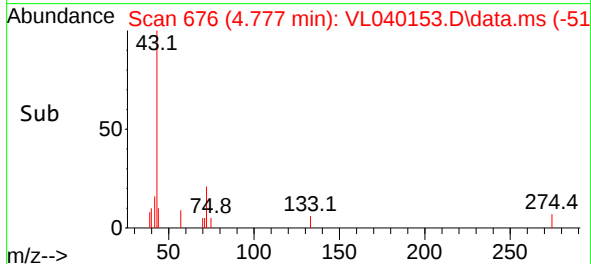
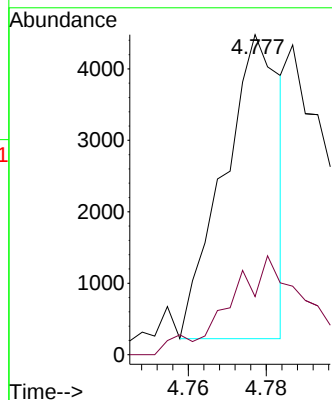
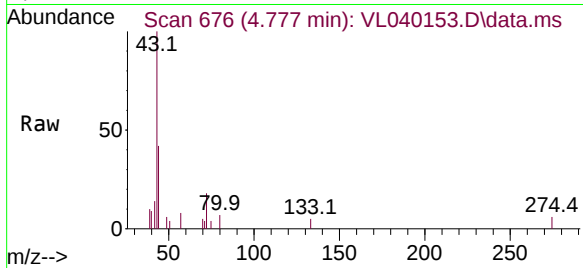




#34
2-Butanone
Concen: 0.037 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

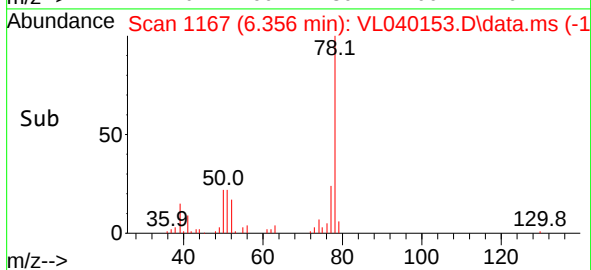
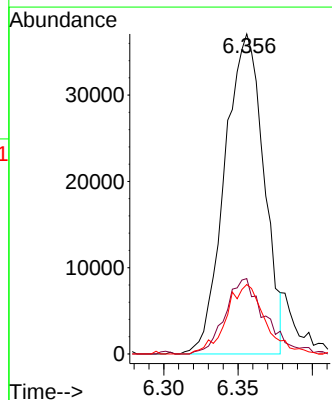
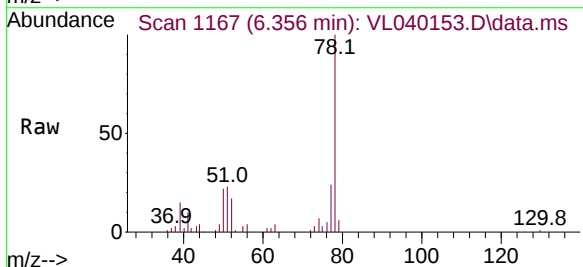
Instrument :
MSVOA_L
ClientSampleId :

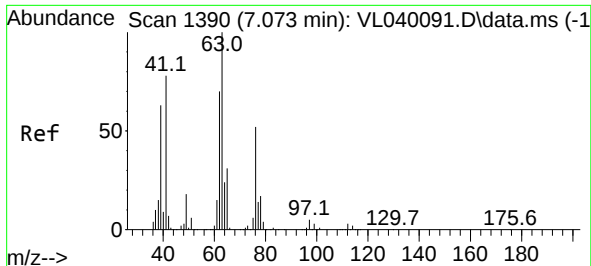
Tgt Ion: 43 Resp: 4255
Ion Ratio Lower Upper
43 100
72 56.0 18.4 27.6#



#36
Benzene
Concen: 0.378 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.003 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

Tgt Ion: 78 Resp: 68001
Ion Ratio Lower Upper
78 100
77 23.5 18.1 27.1
50 21.7 15.6 23.4





#39

1,2-Dichloropropane

Concen: 8.506 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.424 min

Lab File: VL040153.D

Acq: 6 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

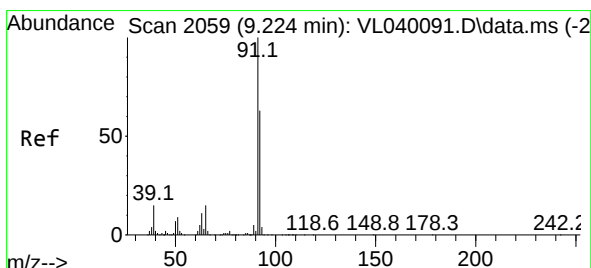
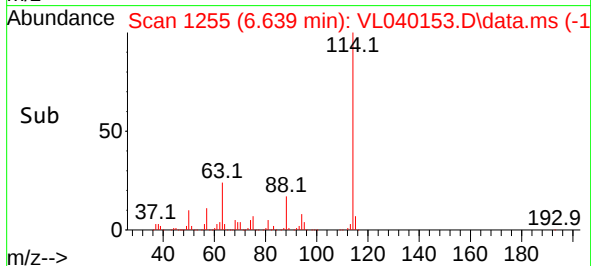
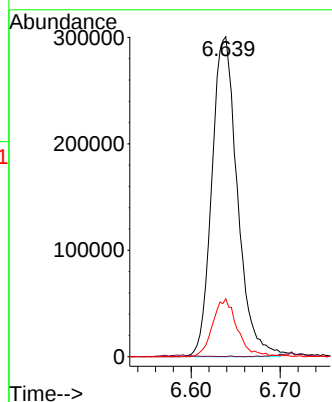
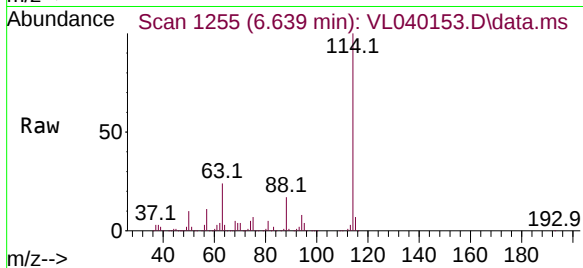
Tgt Ion: 63 Resp: 598736

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 18.1 55.8 83.8#



#53

Toluene

Concen: 0.428 ppbv

RT: 9.211 min Scan# 2055

Delta R.T. 0.000 min

Lab File: VL040153.D

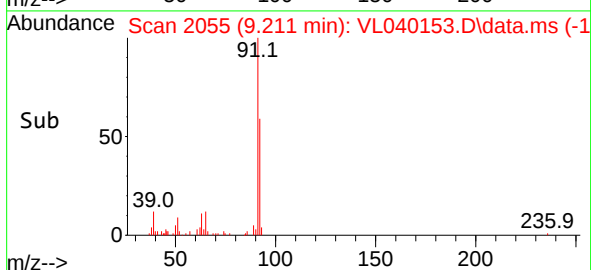
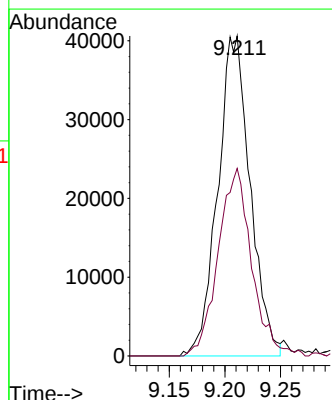
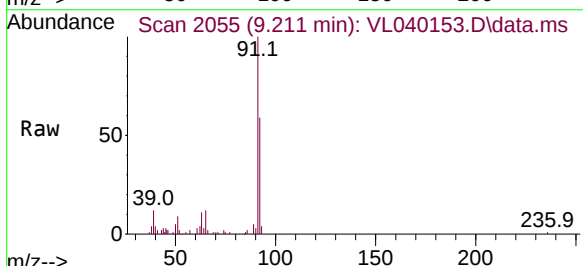
Acq: 6 Feb 2023 19:42

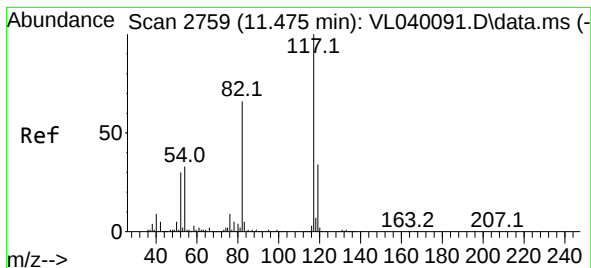
Tgt Ion: 91 Resp: 82165

Ion Ratio Lower Upper

91 100

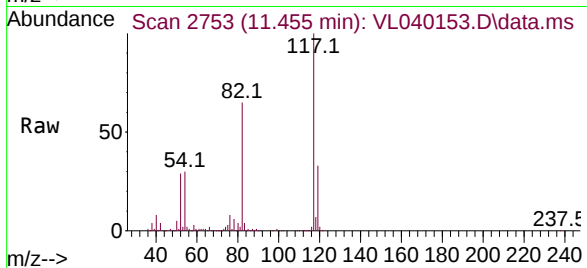
92 60.9 48.3 72.5



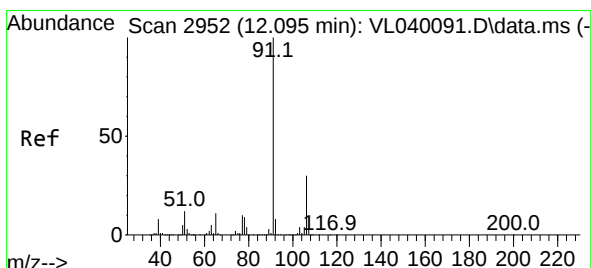
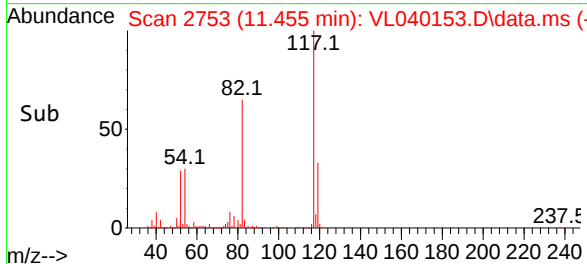
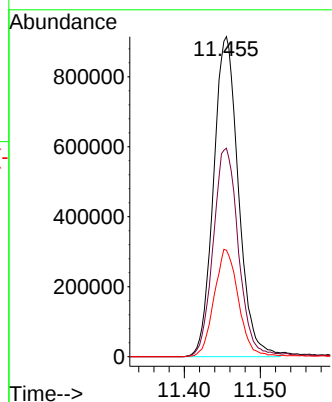


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

Instrument :
MSVOA_L
ClientSampleId :

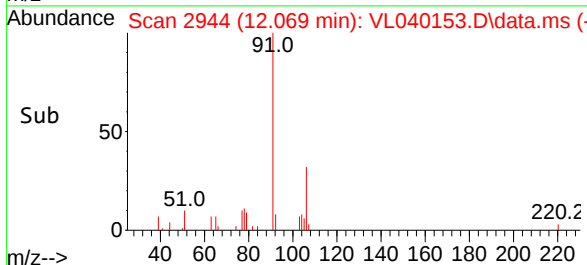
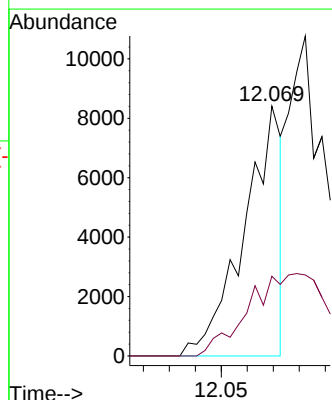
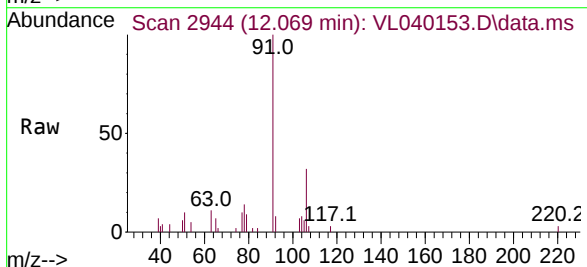


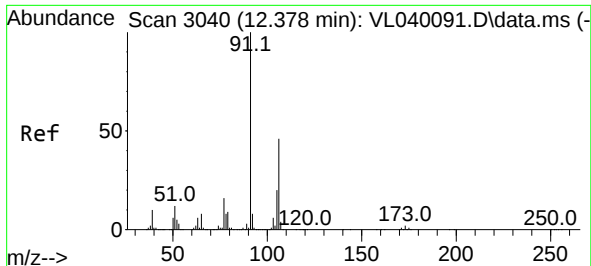
Tgt Ion:117 Resp: 2082968
Ion Ratio Lower Upper
117 100
82 66.9 54.4 81.6
119 33.0 26.8 40.2



#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 12.069 min Scan# 2944
Delta R.T. -0.013 min
Lab File: VL040153.D
Acq: 6 Feb 2023 19:42

Tgt Ion: 91 Resp: 8413
Ion Ratio Lower Upper
91 100
106 31.9 23.7 35.5





#59

m/p-Xylene

Concen: 0.033 ppbv

RT: 12.359 min Scan# 3040

Delta R.T. -0.006 min

Lab File: VL040153.D

Acq: 6 Feb 2023 19:42

Instrument :

MSVOA_L

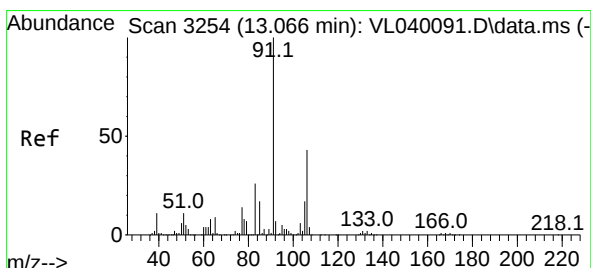
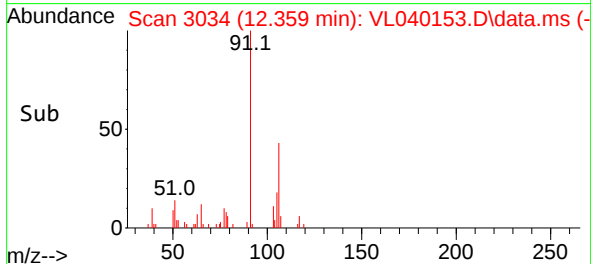
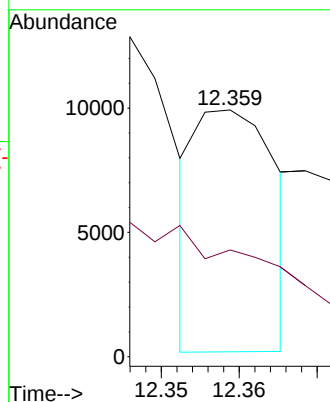
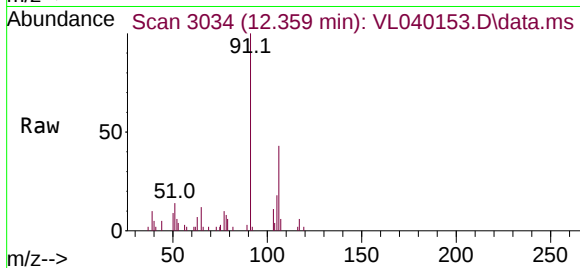
ClientSampleId :

Tgt Ion: 91 Resp: 6888

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.4#



#60

o-Xylene

Concen: 0.049 ppbv

RT: 13.044 min Scan# 3247

Delta R.T. -0.006 min

Lab File: VL040153.D

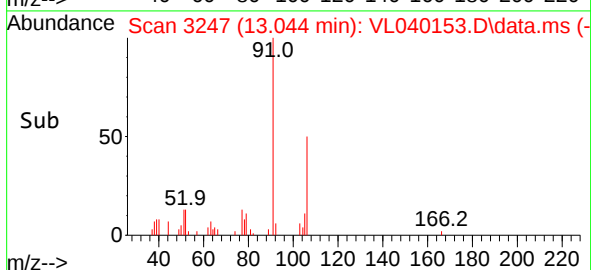
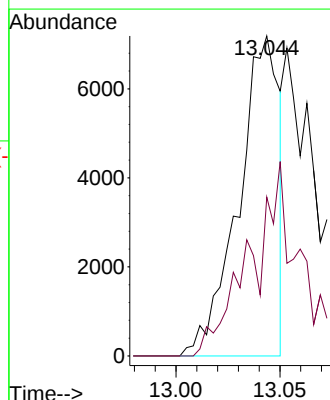
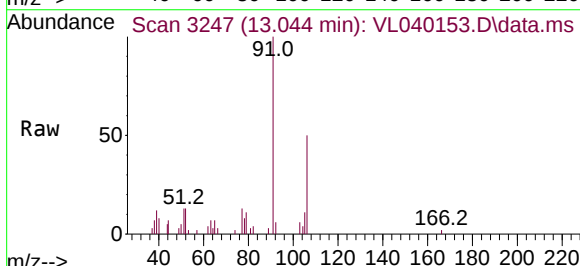
Acq: 6 Feb 2023 19:42

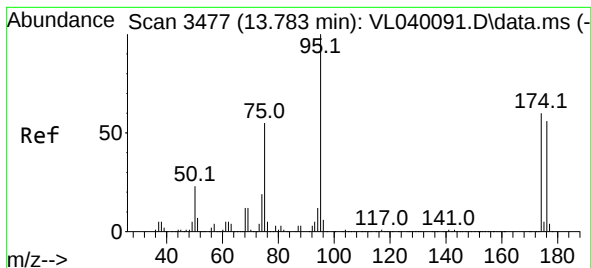
Tgt Ion: 91 Resp: 9756

Ion Ratio Lower Upper

91 100

106 0.0 21.6 64.8#

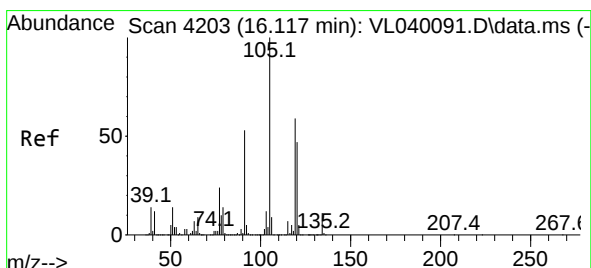
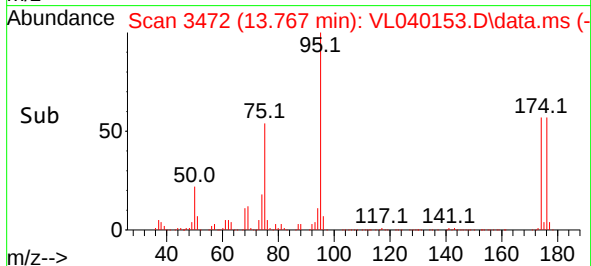
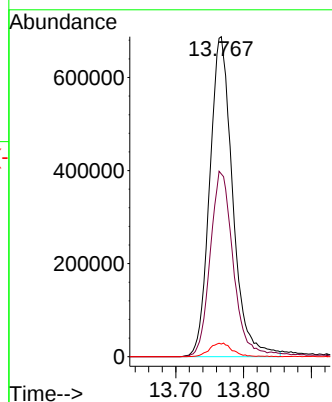
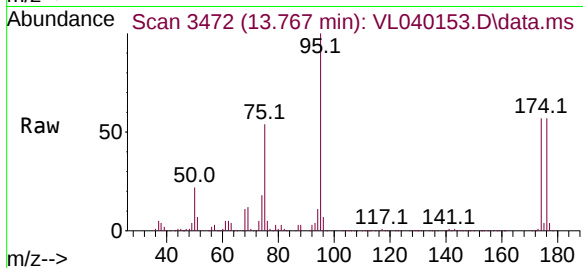




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.354 ppbv
 RT: 13.767 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL040153.D
 Acq: 6 Feb 2023 19:42

Instrument :
 MSVOA_1
 ClientSampleId :

Tgt Ion: 95 Resp: 1619337
 Ion Ratio Lower Upper
 95 100
 174 59.7 47.7 71.5
 175 4.3 3.4 5.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.047 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. 0.000 min
 Lab File: VL040153.D
 Acq: 6 Feb 2023 19:42

Tgt Ion: 105 Resp: 10248
 Ion Ratio Lower Upper
 105 100
 120 52.4 38.0 57.0
 91 4.5 42.1 63.1#
 77 20.1 19.3 28.9

