

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040387.D
 Acq On : 19 Apr 2023 19:49
 Operator : SY/MD
 Sample : 02368-01 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 20 05:13:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

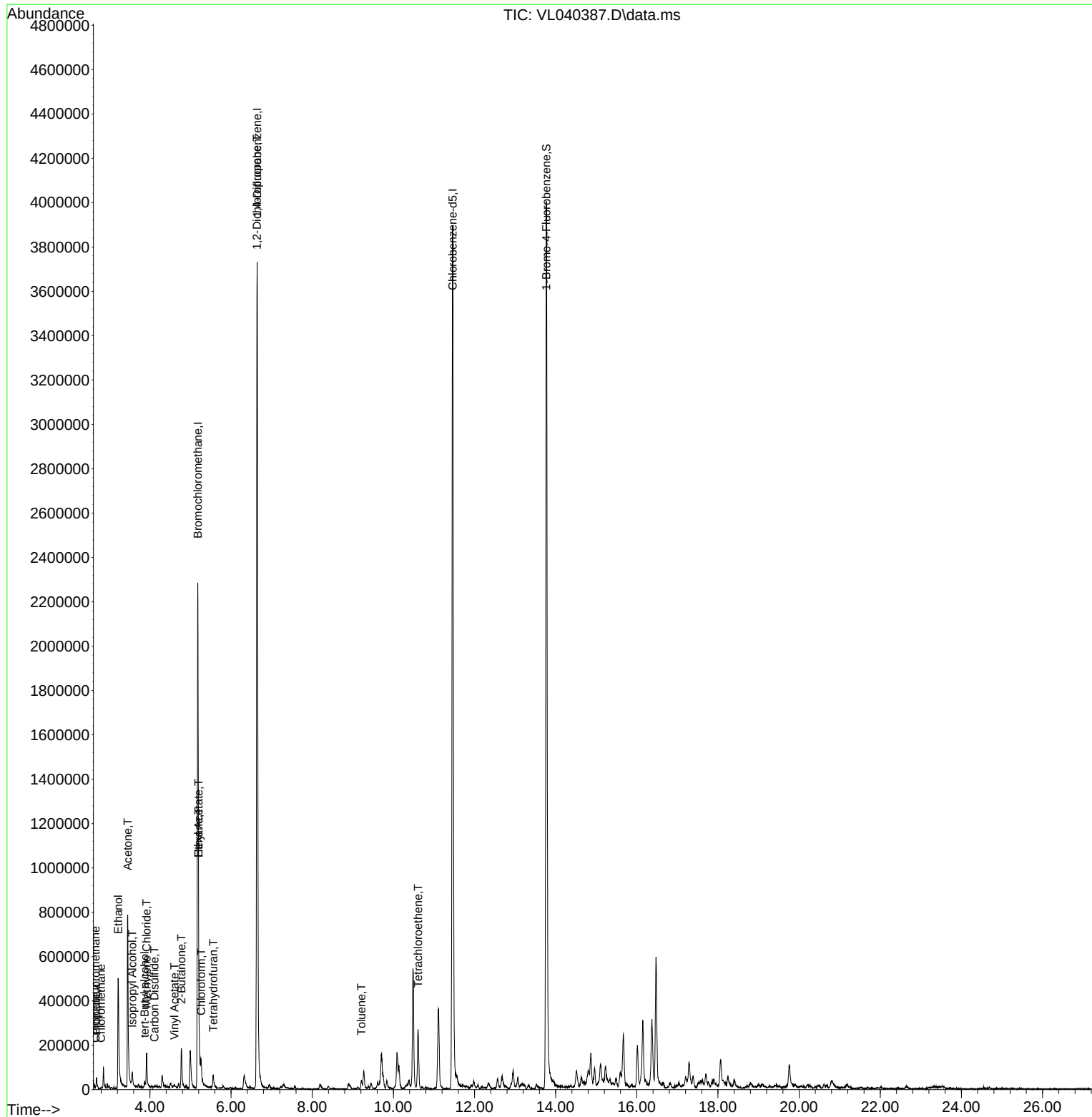
Internal Standards						
1) Bromochloromethane	5.179	49	1076331	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.642	114	2837905	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.462	117	2568941	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2029061	9.551	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.658	51	5913	0.042	ppbv #	83
4) Chloromethane	2.796	50	5067	0.057	ppbv #	84
9) Propene	2.677	41	6312	0.114	ppbv #	14
13) Ethanol	3.218	45	560076	120.744	ppbv	95
15) Acetone	3.452	43	786539	5.159	ppbv	96
17) tert-Butyl alcohol	3.870	59	10107	0.072	ppbv #	72
19) Isopropyl Alcohol	3.565	45	54731	0.787	ppbv #	1
20) Methylene Chloride	3.919	84	47271	0.777	ppbv	85
23) Vinyl Acetate	4.603	43	10066	0.259	ppbv #	84
25) Ethyl Acetate	5.198	43	35059	0.137	ppbv #	76
26) Hexane	5.198	57	49441	0.457	ppbv #	40
27) Carbon Disulfide	4.111	76	5812	0.042	ppbv #	54
29) Chloroform	5.263	83	29575	0.154	ppbv	98
34) 2-Butanone	4.774	43	208749	1.364	ppbv	98
39) 1,2-Dichloropropane	6.639	63	701113	7.696	ppbv #	25
41) Tetrahydrofuran	5.562	42	28508	0.340	ppbv	95
52) Tetrachloroethene	10.606	164	59701	0.824	ppbv #	83
53) Toluene	9.211	91	17560	0.072	ppbv #	43

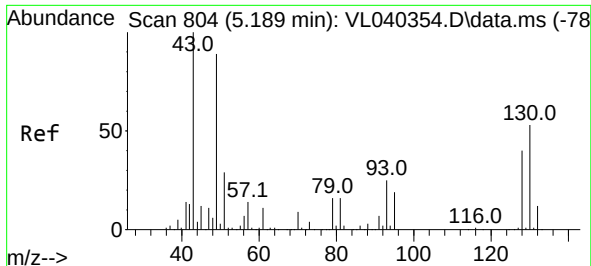
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
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QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

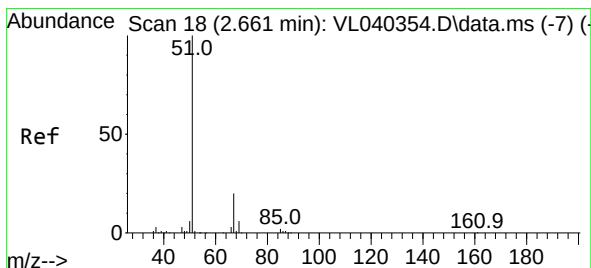
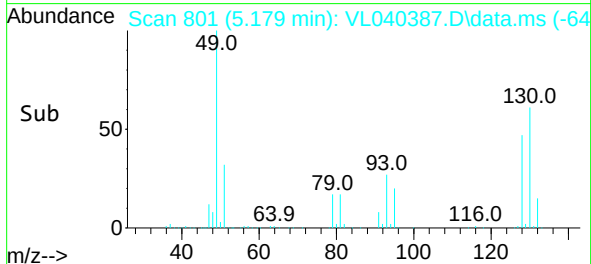
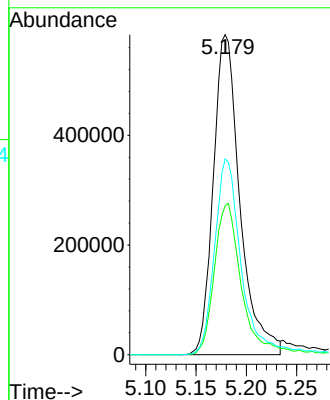
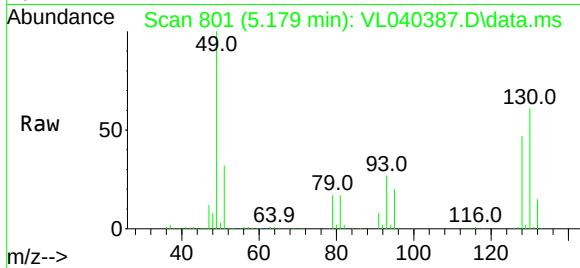




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

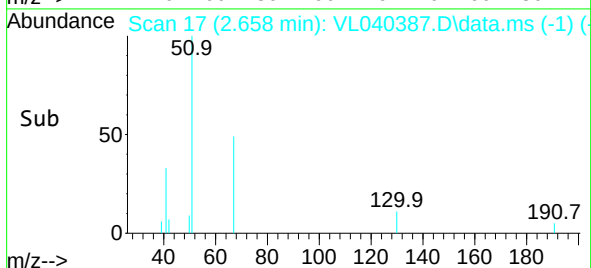
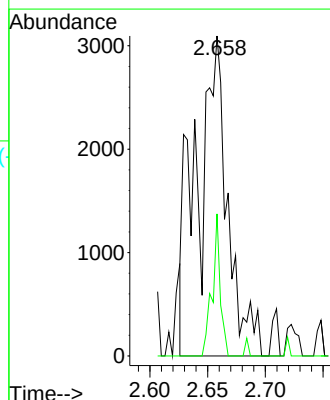
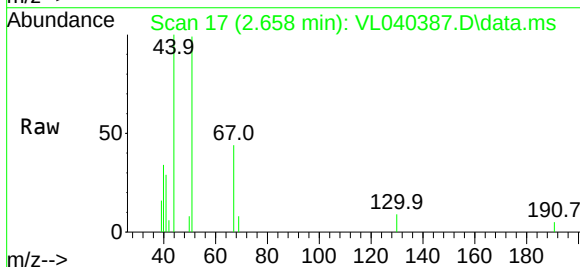
Instrument :
MSVOA_L
ClientSampleId :

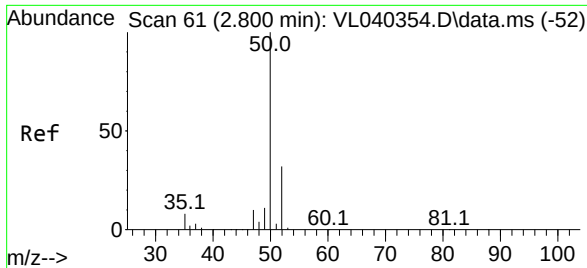
Tgt Ion: 49 Resp: 1076331
Ion Ratio Lower Upper
49 100
128 49.4 23.7 71.1
130 63.2 29.9 89.8



#3
Chlorodifluoromethane
Concen: 0.042 ppbv
RT: 2.658 min Scan# 17
Delta R.T. -0.003 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Tgt Ion: 51 Resp: 5913
Ion Ratio Lower Upper
51 100
67 11.8 15.5 23.3#



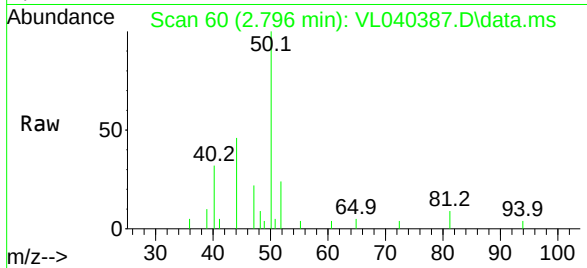


#4
Chloromethane
Concen: 0.057 ppbv
RT: 2.796 min Scan# 61
Delta R.T. -0.004 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

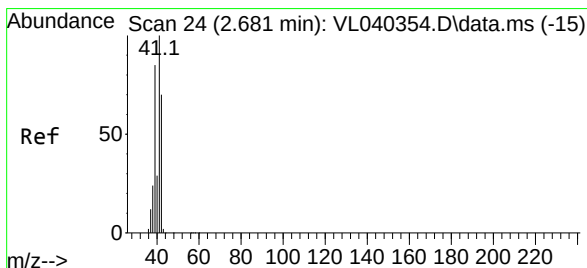
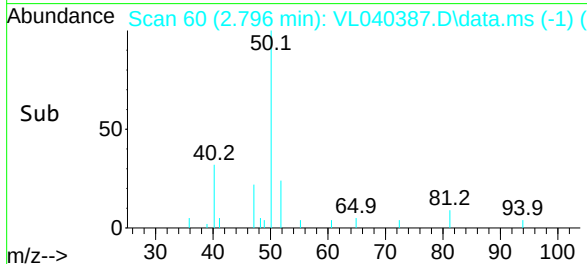
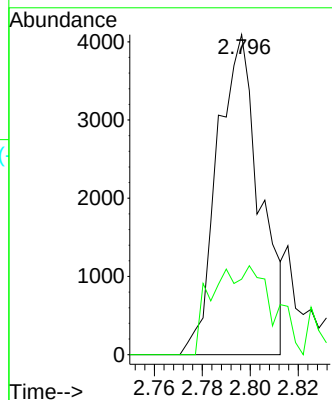
Instrument :

MSVOA_L

ClientSampleId :

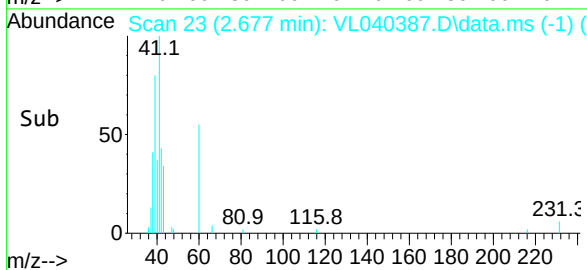
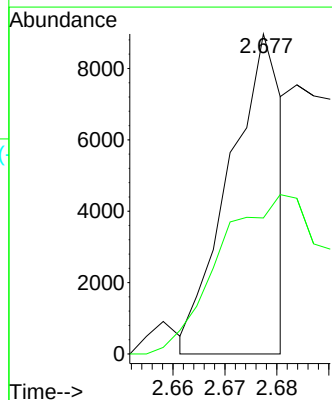
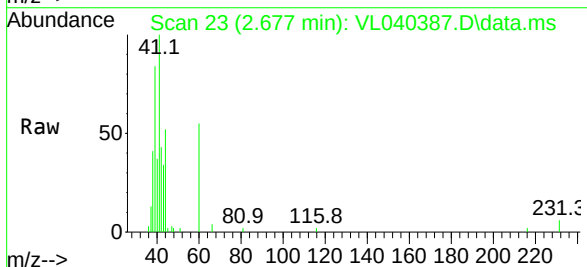


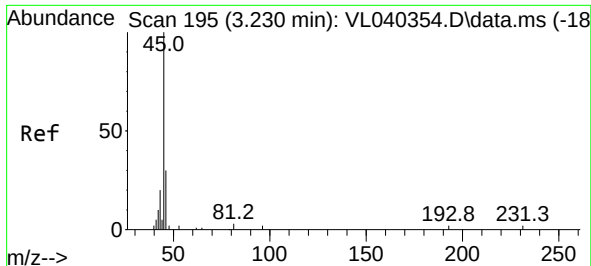
Tgt Ion: 50 Resp: 5067
Ion Ratio Lower Upper
50 100
52 22.5 25.3 37.9#



#9
Propene
Concen: 0.114 ppbv
RT: 2.677 min Scan# 23
Delta R.T. -0.004 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Tgt Ion: 41 Resp: 6312
Ion Ratio Lower Upper
41 100
42 0.0 56.5 84.7#

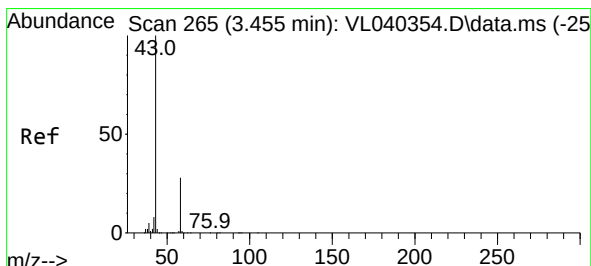
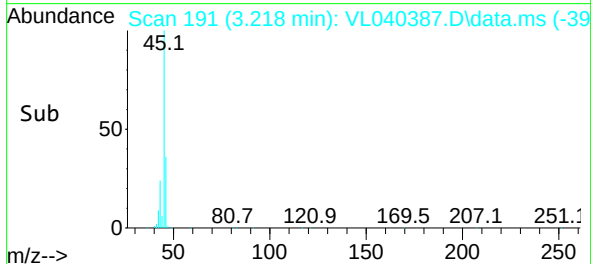
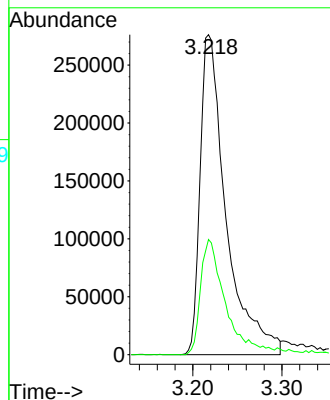
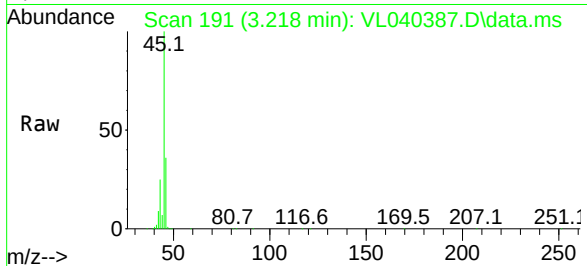




#13
Ethanol
Concen: 120.744 ppbv
RT: 3.218 min Scan# 195
Delta R.T. -0.012 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

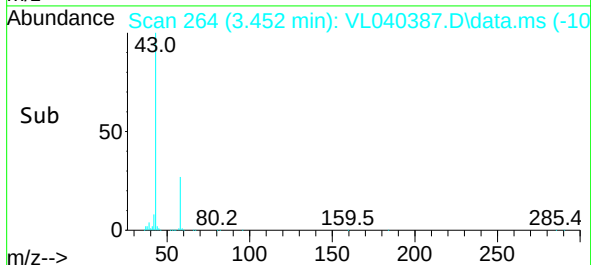
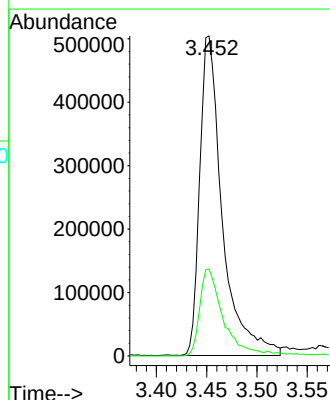
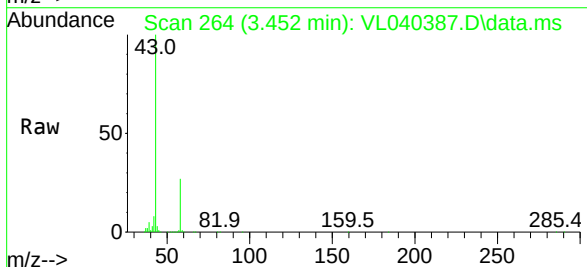
Instrument :
MSVOA_L
ClientSampleId :

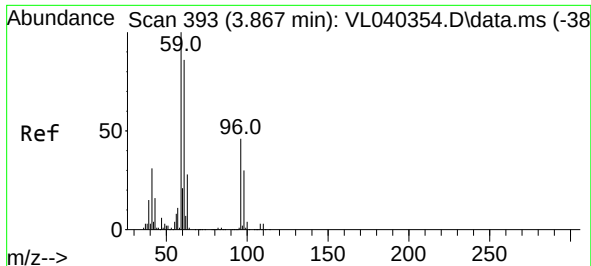
Tgt Ion: 45 Resp: 560076
Ion Ratio Lower Upper
45 100
46 35.5 15.3 61.3



#15
Acetone
Concen: 5.159 ppbv
RT: 3.452 min Scan# 264
Delta R.T. -0.003 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Tgt Ion: 43 Resp: 786539
Ion Ratio Lower Upper
43 100
58 29.6 22.2 33.2





#17

tert-Butyl alcohol

Concen: 0.072 ppbv

RT: 3.870 min Scan# 393

Delta R.T. 0.003 min

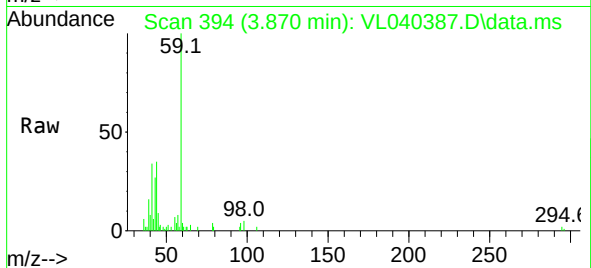
Lab File: VL040387.D

Acq: 19 Apr 2023 19:49

Instrument :

MSVOA_L

ClientSampleId :

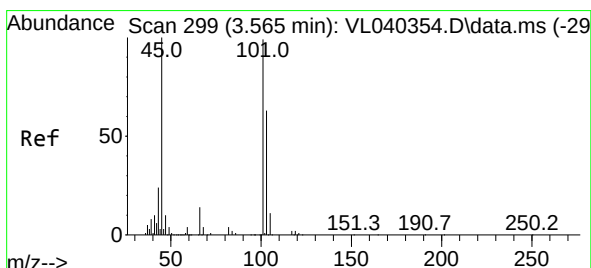
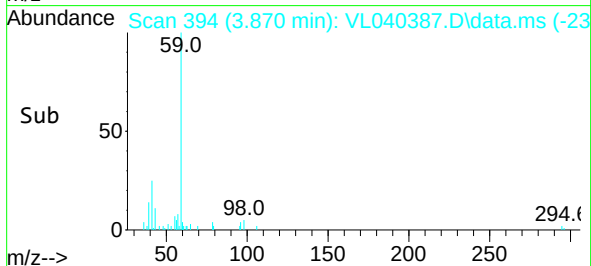
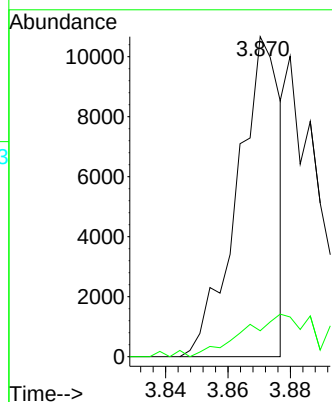


Tgt Ion: 59 Resp: 10107

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 0.787 ppbv

RT: 3.565 min Scan# 299

Delta R.T. -0.000 min

Lab File: VL040387.D

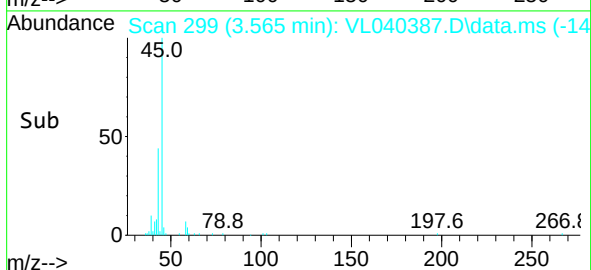
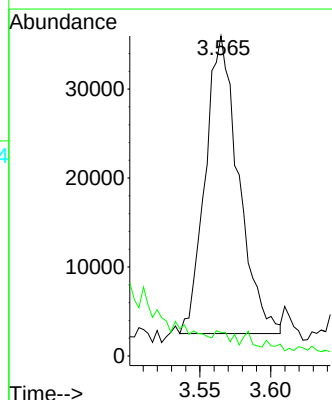
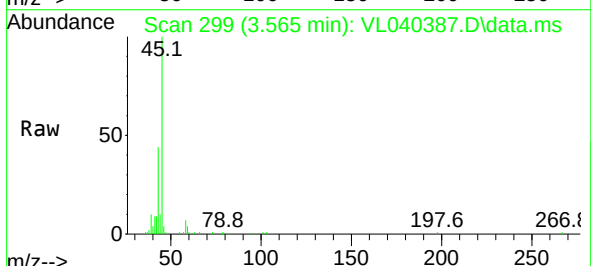
Acq: 19 Apr 2023 19:49

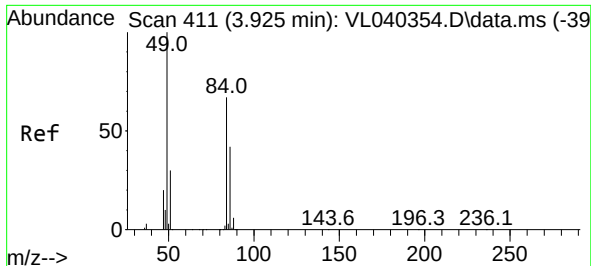
Tgt Ion: 45 Resp: 54731

Ion Ratio Lower Upper

45 100

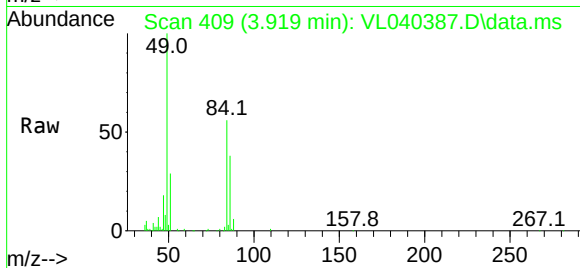
58 428.6 2.6 4.0#





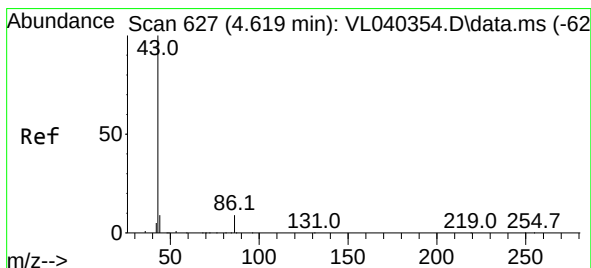
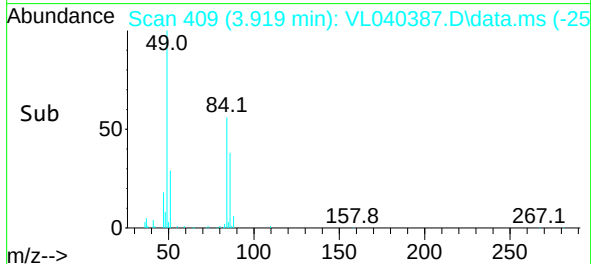
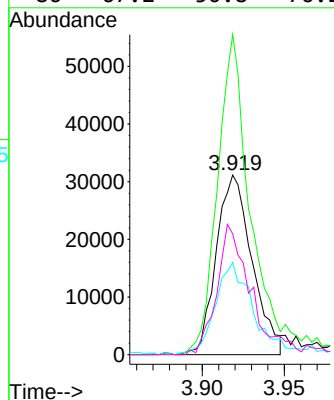
#20
Methylene Chloride
Concen: 0.777 ppbv
RT: 3.919 min Scan# 409
Delta R.T. -0.006 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 47271

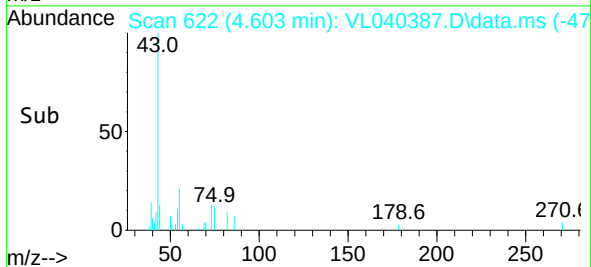
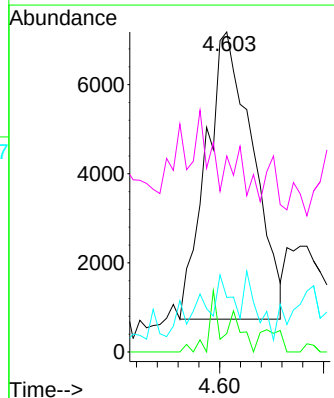
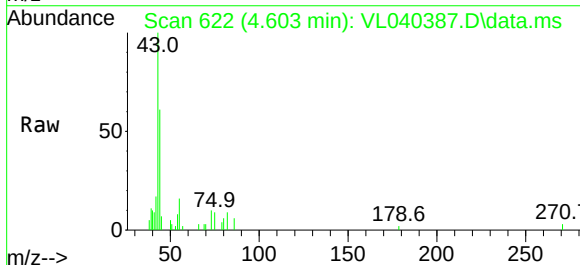
Ion	Ratio	Lower	Upper
84	100		
49	177.3	120.1	180.1
51	50.2	36.3	54.5
86	67.2	50.8	76.2

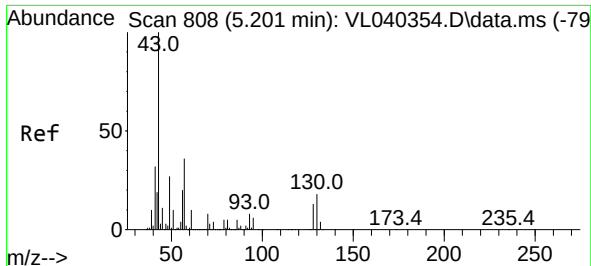


#23
Vinyl Acetate
Concen: 0.259 ppbv
RT: 4.603 min Scan# 622
Delta R.T. -0.016 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Tgt Ion: 43 Resp: 10066

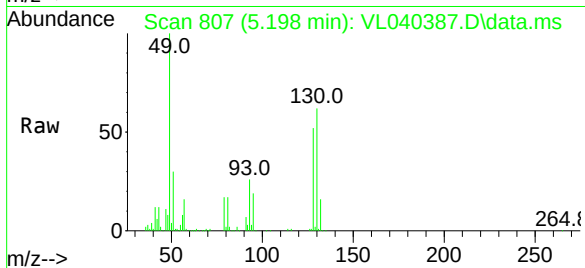
Ion	Ratio	Lower	Upper
43	100		
86	6.4	6.0	9.0
42	2.3	6.4	9.6#
44	16.9	5.6	8.4#



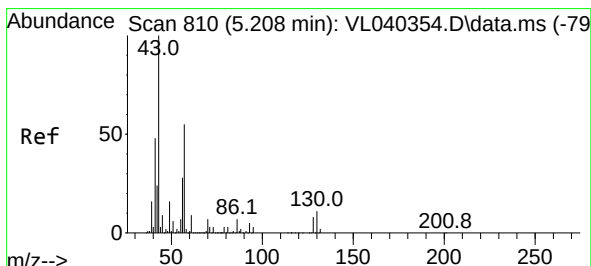
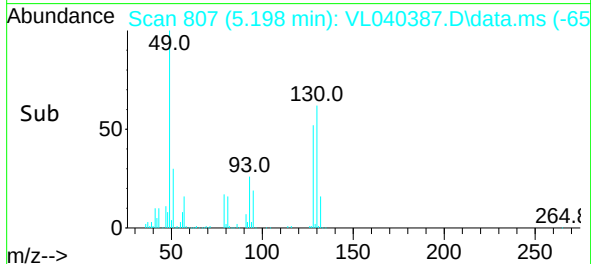
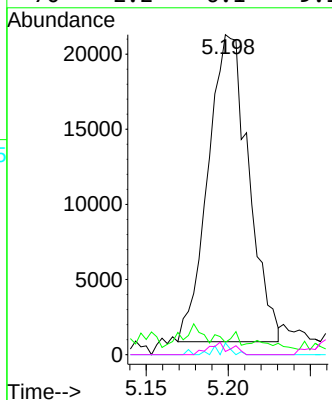


#25
Ethyl Acetate
Concen: 0.137 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.003 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Instrument :
MSVOA_L
ClientSampleId :

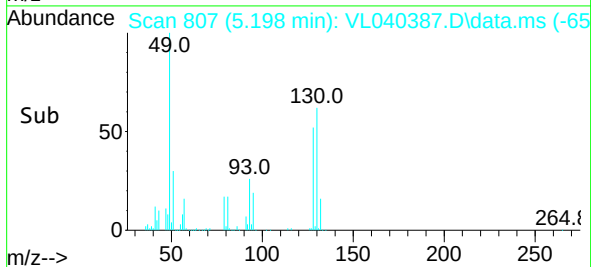
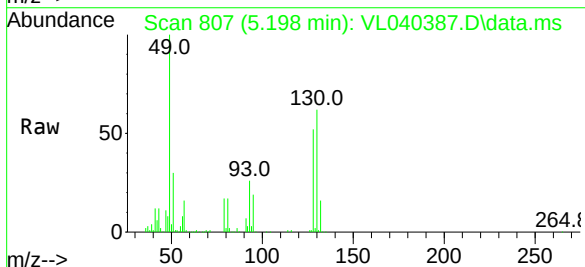
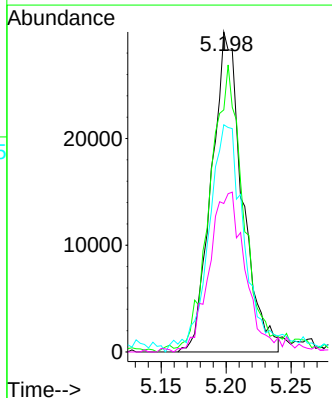


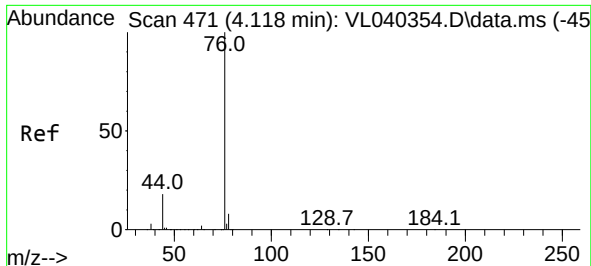
Tgt Ion: 43 Resp: 35059
Ion Ratio Lower Upper
43 100
45 0.0 8.5 12.7#
61 1.2 8.5 12.7#
70 2.2 6.1 9.1#



#26
Hexane
Concen: 0.457 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.010 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

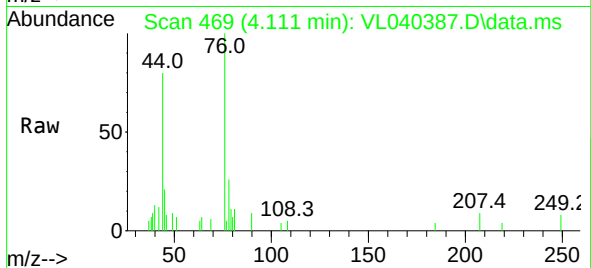
Tgt Ion: 57 Resp: 49441
Ion Ratio Lower Upper
57 100
41 102.5 74.8 112.2
43 85.6 192.7 289.1#
56 60.8 42.6 64.0



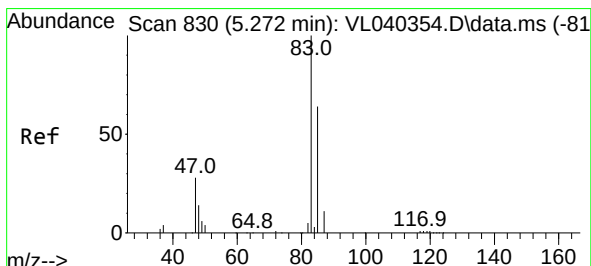
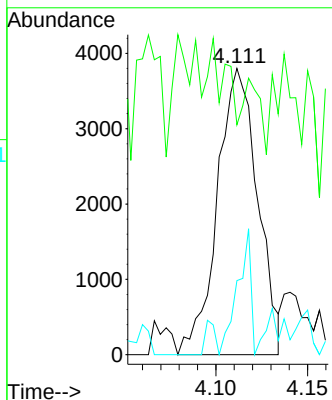
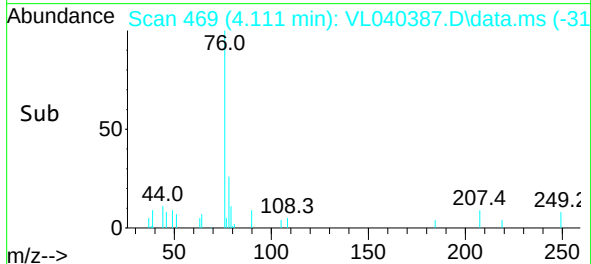


#27
Carbon Disulfide
Concen: 0.042 ppbv
RT: 4.111 min Scan# 411
Delta R.T. -0.007 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

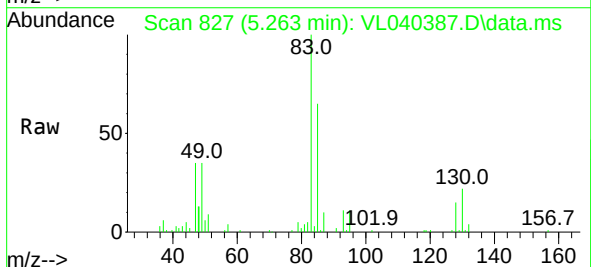
Instrument :
MSVOA_L
ClientSampleId :



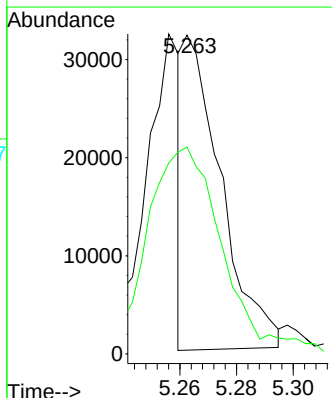
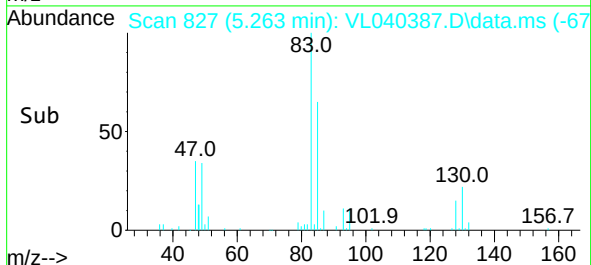
Tgt Ion: 76 Resp: 5812
Ion Ratio Lower Upper
76 100
44 44.4 14.7 22.1#
78 17.4 7.7 11.5#

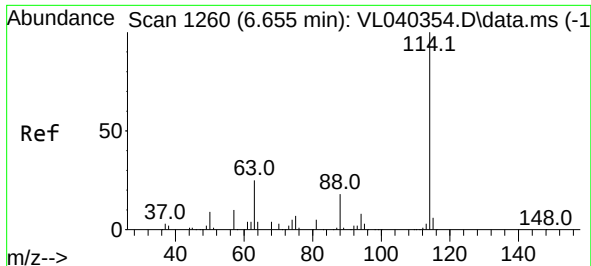


#29
Chloroform
Concen: 0.154 ppbv
RT: 5.263 min Scan# 827
Delta R.T. -0.009 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49



Tgt Ion: 83 Resp: 29575
Ion Ratio Lower Upper
83 100
85 64.9 51.0 76.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.013 min

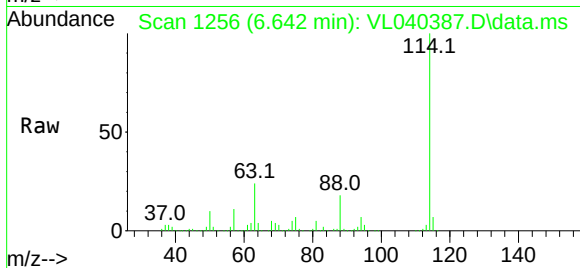
Lab File: VL040387.D

Acq: 19 Apr 2023 19:49

Instrument :

MSVOA_L

ClientSampleId :



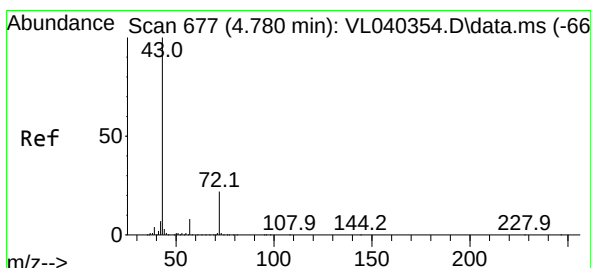
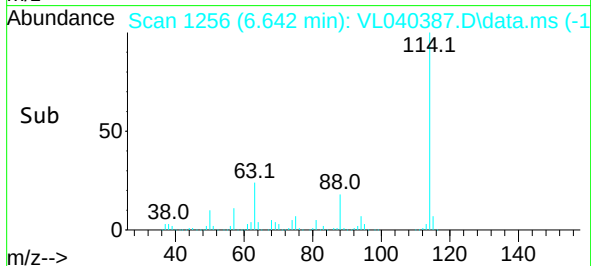
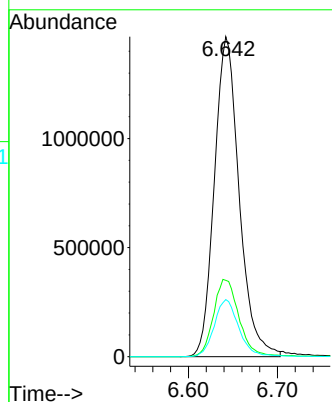
Tgt Ion:114 Resp: 2837905

Ion Ratio Lower Upper

114 100

63 25.1 21.4 32.0

88 18.0 14.6 22.0



#34

2-Butanone

Concen: 1.364 ppbv

RT: 4.774 min Scan# 675

Delta R.T. -0.006 min

Lab File: VL040387.D

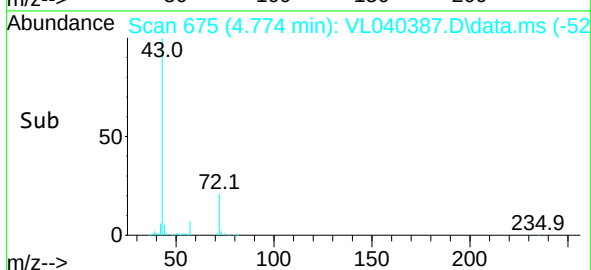
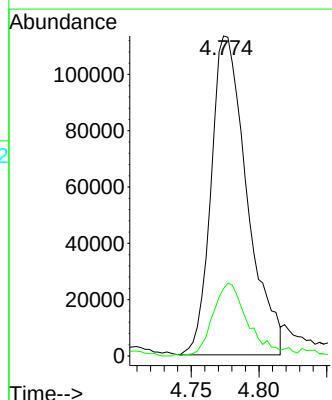
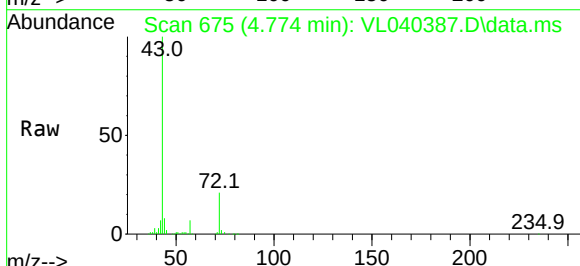
Acq: 19 Apr 2023 19:49

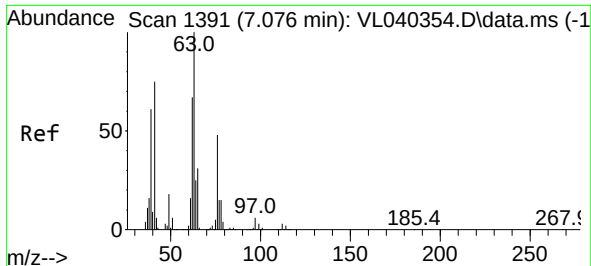
Tgt Ion: 43 Resp: 208749

Ion Ratio Lower Upper

43 100

72 23.8 18.4 27.6





#39

1,2-Dichloropropane

Concen: 7.696 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.437 min

Lab File: VL040387.D

Acq: 19 Apr 2023 19:49

Instrument :

MSVOA_L

ClientSampleId :

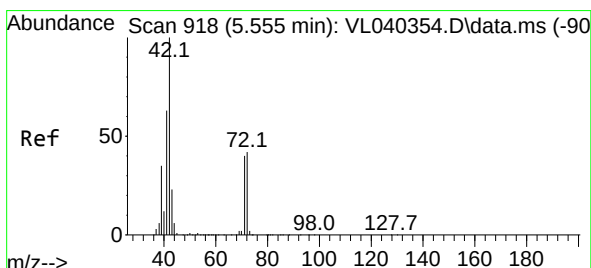
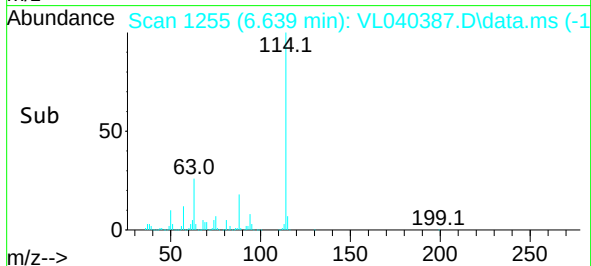
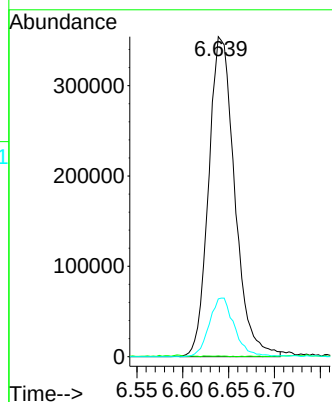
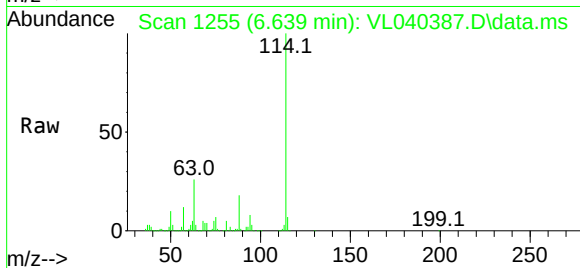
Tgt Ion: 63 Resp: 701113

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 18.1 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.340 ppbv

RT: 5.562 min Scan# 920

Delta R.T. 0.007 min

Lab File: VL040387.D

Acq: 19 Apr 2023 19:49

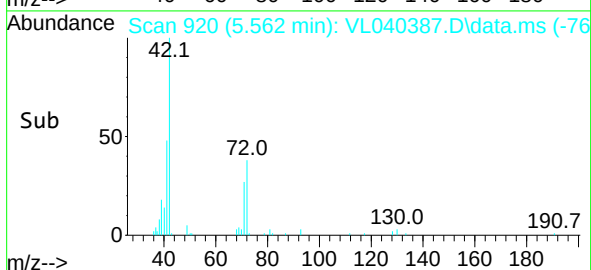
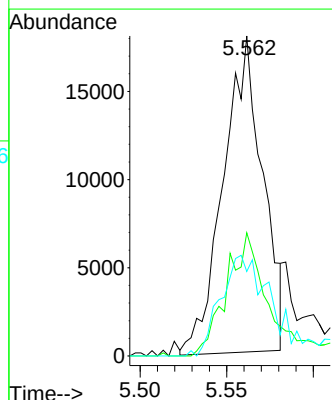
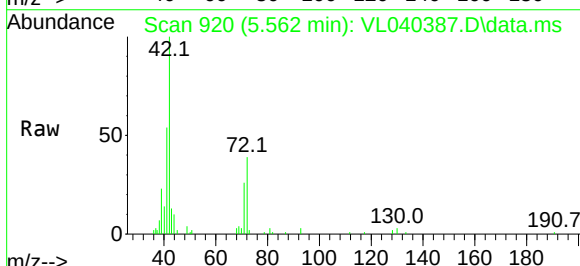
Tgt Ion: 42 Resp: 28508

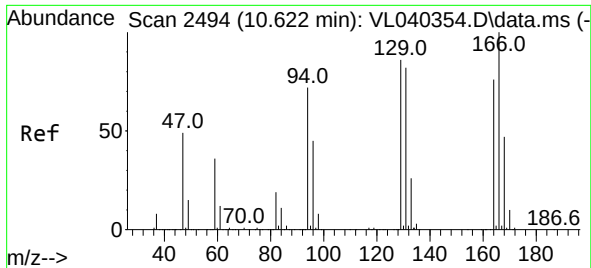
Ion Ratio Lower Upper

42 100

72 43.3 33.7 50.5

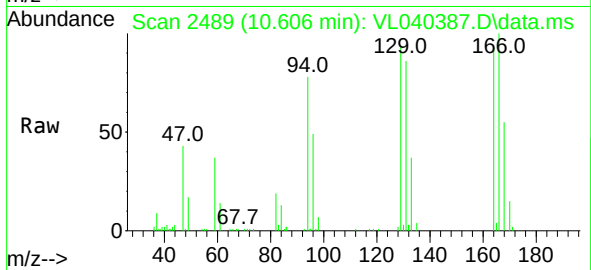
71 45.6 32.2 48.2



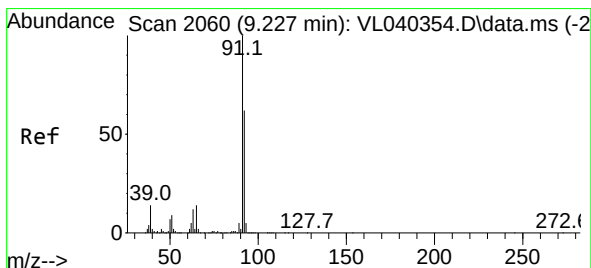
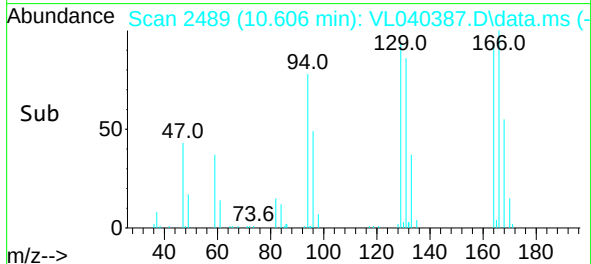
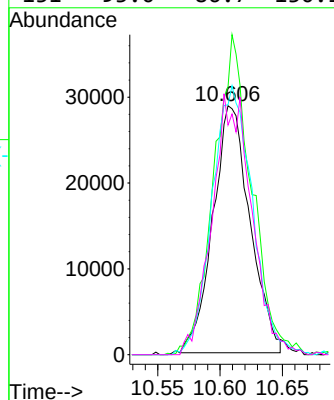


#52
Tetrachloroethene
Concen: 0.824 ppbv
RT: 10.606 min Scan# 2494
Delta R.T. -0.016 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Instrument :
MSVOA_L
ClientSampleId :

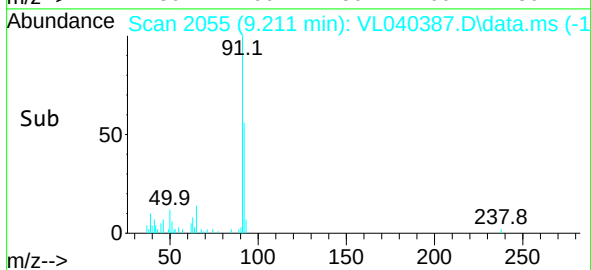
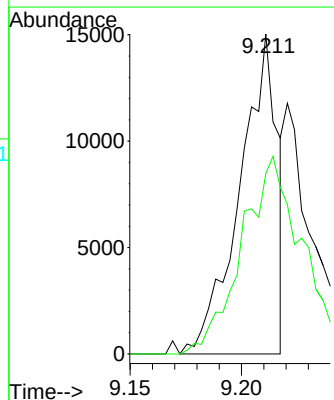
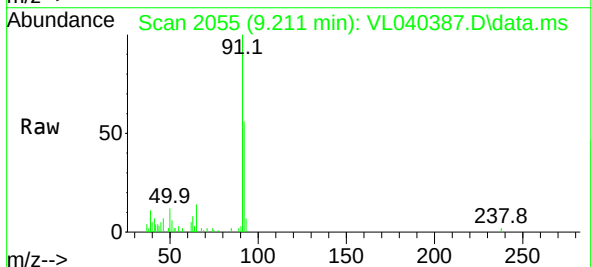


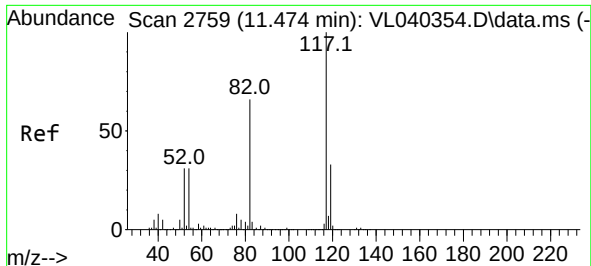
Tgt Ion:164 Resp: 59701
Ion Ratio Lower Upper
164 100
166 105.0 105.2 157.8#
129 100.2 90.3 135.5
131 93.0 86.7 130.1



#53
Toluene
Concen: 0.072 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. -0.016 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

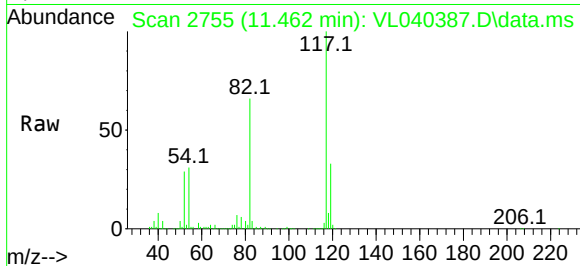
Tgt Ion: 91 Resp: 17560
Ion Ratio Lower Upper
91 100
92 104.9 48.9 73.3#



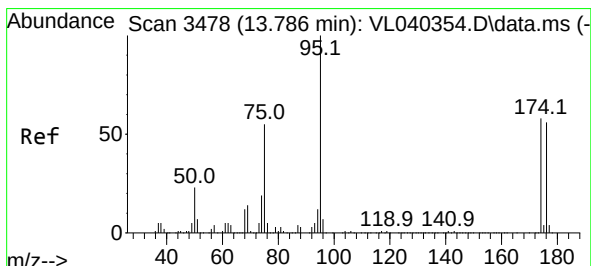
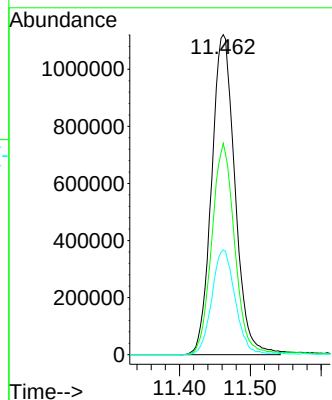
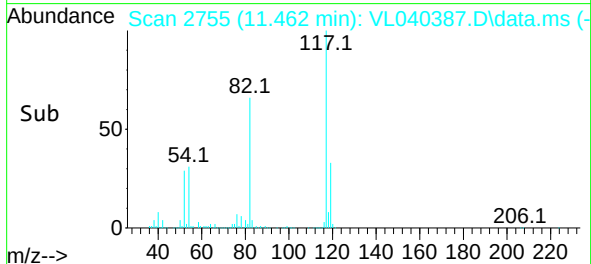


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. -0.012 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:117 Resp: 2568941
Ion Ratio Lower Upper
117 100
82 64.5 52.5 78.7
119 33.3 24.3 36.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.551 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. -0.016 min
Lab File: VL040387.D
Acq: 19 Apr 2023 19:49

Tgt Ion: 95 Resp: 2029061
Ion Ratio Lower Upper
95 100
174 62.1 47.2 70.8
175 4.3 3.5 5.3

