

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040759.D
 Acq On : 11 Oct 2023 15:10
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

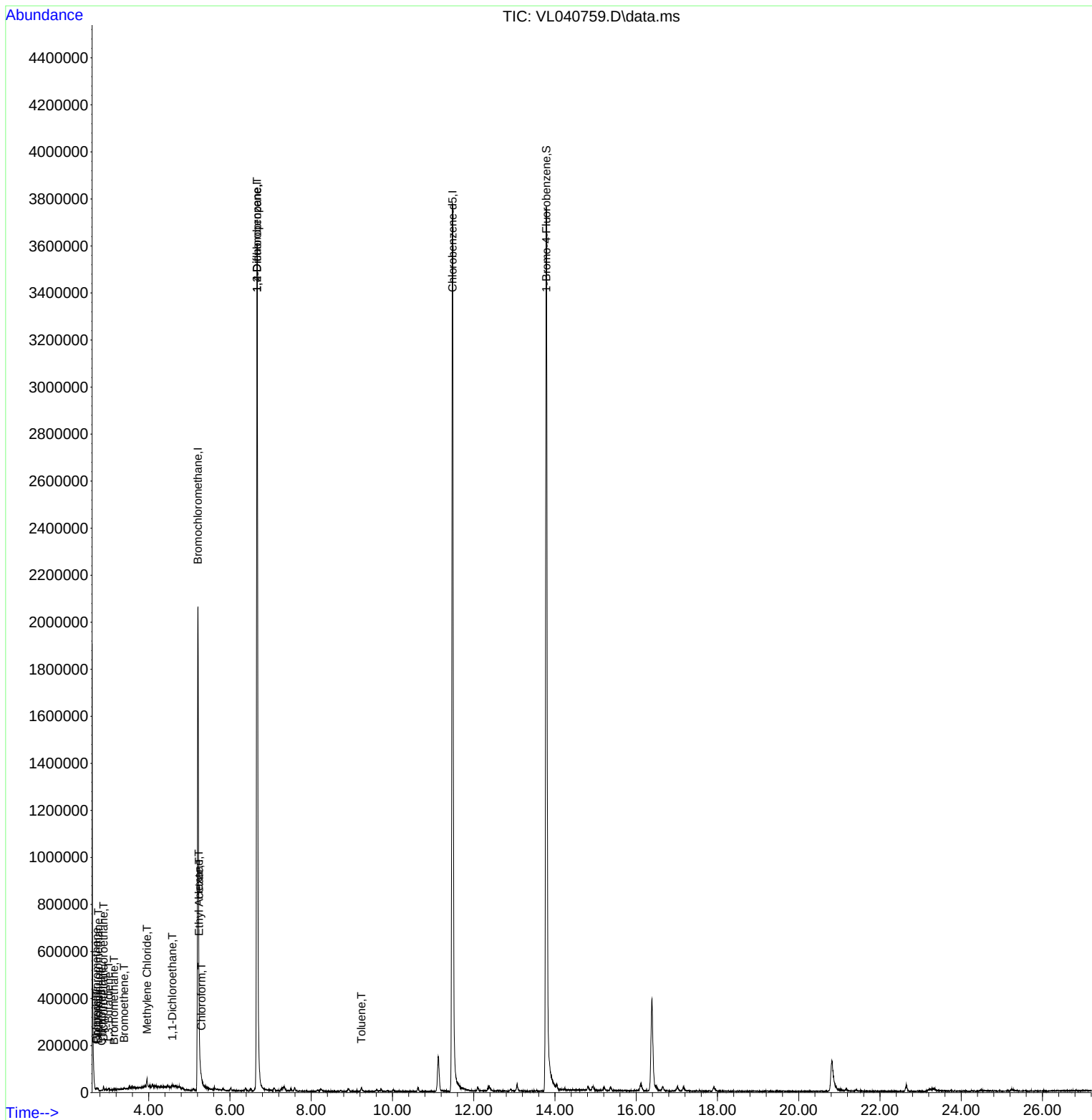
Quant Time: Oct 12 00:27:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

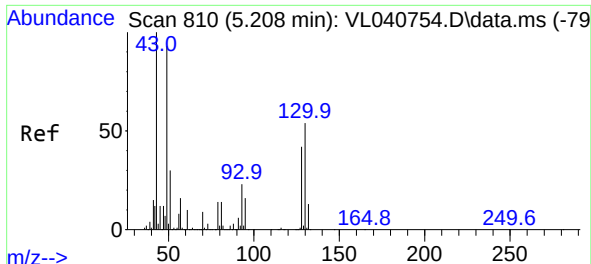
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	1088922	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	3007955	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2739380	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	2045737	10.149	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	7118	0.037	ppbv	97
3) Chlorodifluoromethane	2.709	51	5600	0.035	ppbv #	82
4) Chloromethane	2.841	50	1979	0.031	ppbv #	72
6) Bromomethane	3.150	94	817	0.030	ppbv #	16
8) Dichlorotetrafluoroethane	2.886	85	6199	0.043	ppbv	89
9) Propene	2.722	41	2304	0.039	ppbv #	13
14) Bromoethene	3.391	108	1823	0.040	ppbv #	56
16) 1,3-Butadiene	3.015	39	2071	0.035	ppbv #	48
20) Methylene Chloride	3.957	84	10094	0.215	ppbv #	85
24) 1,1-Dichloroethane	4.584	63	3594	0.033	ppbv #	78
25) Ethyl Acetate	5.237	43	12019	0.049	ppbv #	78
26) Hexane	5.234	57	4051	0.036	ppbv #	1
29) Chloroform	5.295	83	5736	0.035	ppbv #	59
39) 1,2-Dichloropropane	6.668	63	707977	7.832	ppbv #	26
53) Toluene	9.237	91	9585	0.035	ppbv #	78

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

Quant Time: Oct 12 00:27:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

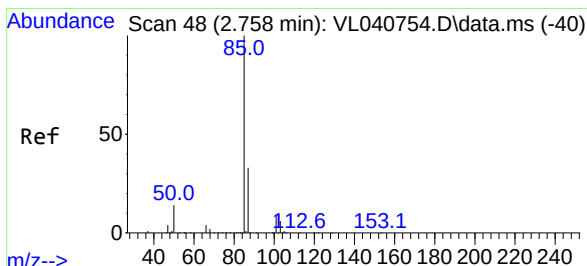
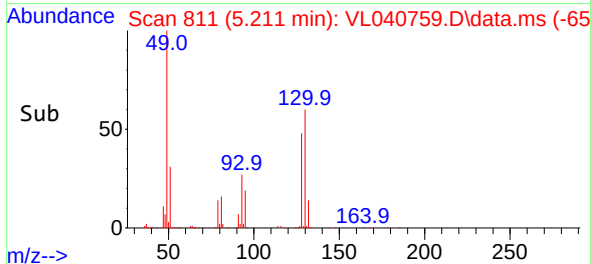
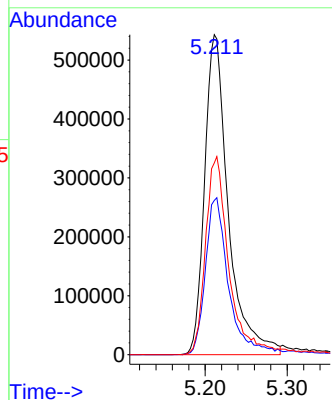
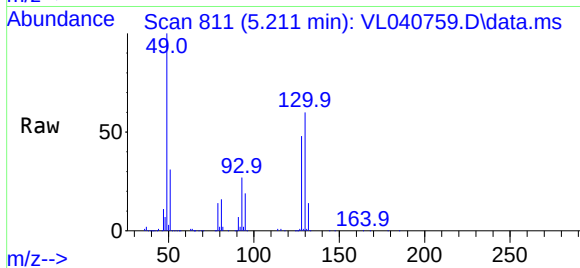




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

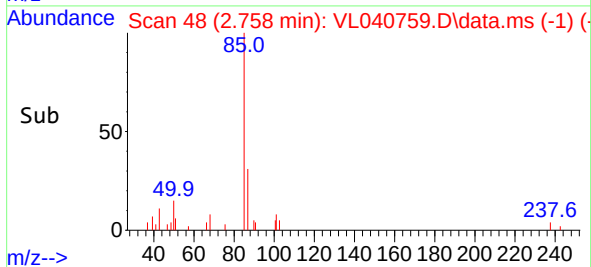
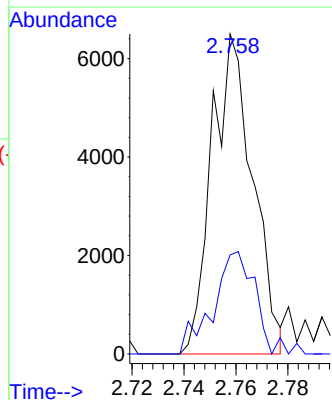
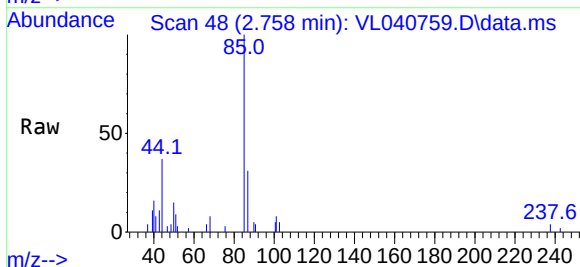
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 1088922
Ion Ratio Lower Upper
49 100
128 50.1 23.9 71.7
130 62.2 30.7 92.1

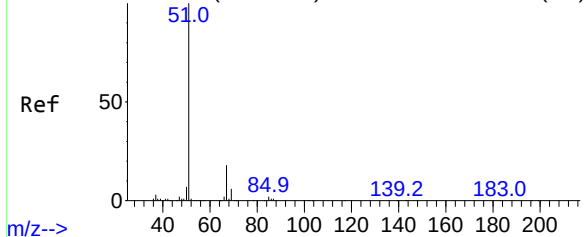


#2
Dichlorodifluoromethane
Concen: 0.037 ppbv
RT: 2.758 min Scan# 48
Delta R.T. -0.000 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

Tgt Ion: 85 Resp: 7118
Ion Ratio Lower Upper
85 100
87 30.9 26.0 39.0



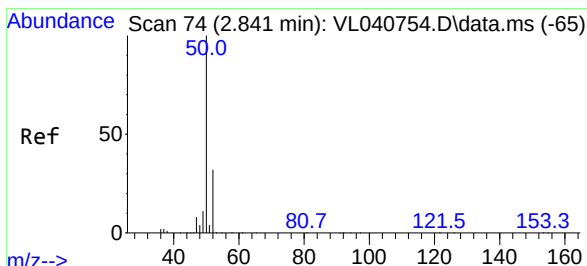
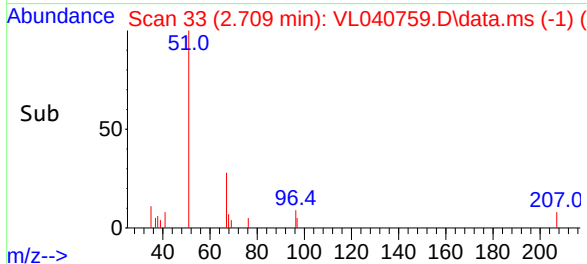
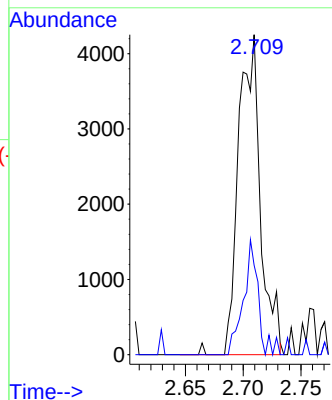
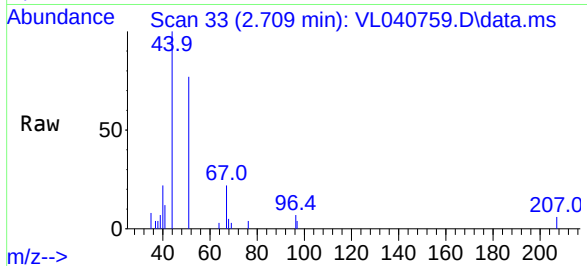
Abundance Scan 31 (2.703 min): VL040754.D\data.ms (-19)



#3
Chlorodifluoromethane
Concen: 0.035 ppbv
RT: 2.709 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

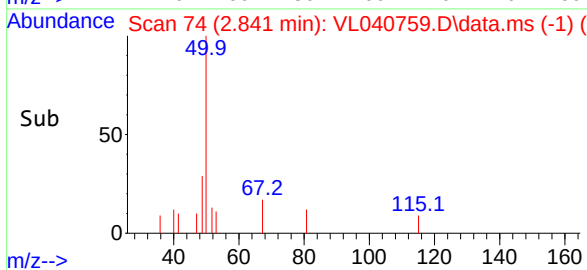
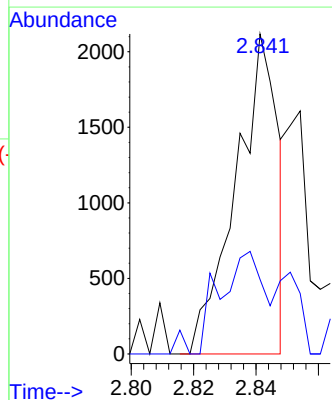
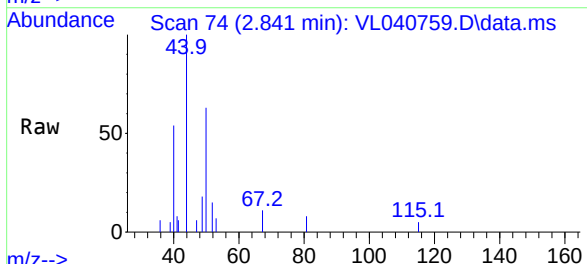
Instrument :
MSVOA_L
ClientSampleId :

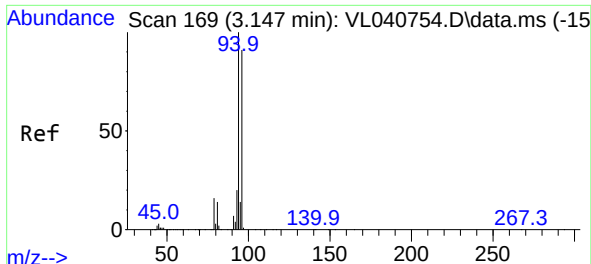
Tgt Ion: 51 Resp: 5600
Ion Ratio Lower Upper
51 100
67 24.9 13.8 20.6#



#4
Chloromethane
Concen: 0.031 ppbv
RT: 2.841 min Scan# 74
Delta R.T. -0.000 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

Tgt Ion: 50 Resp: 1979
Ion Ratio Lower Upper
50 100
52 15.9 25.3 37.9#

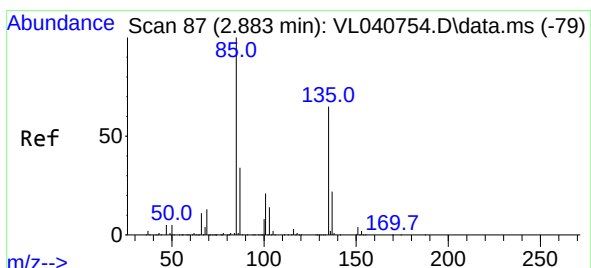
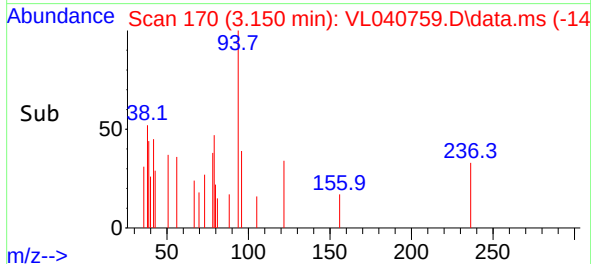
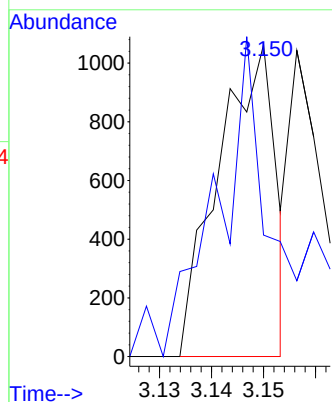
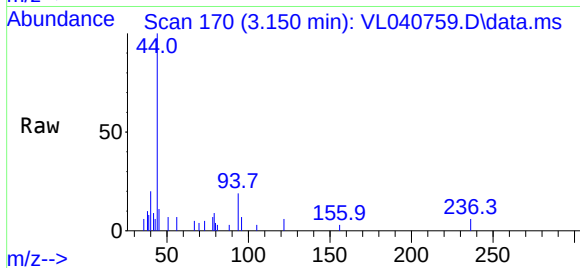




#6
Bromomethane
Concen: 0.030 ppbv
RT: 3.150 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

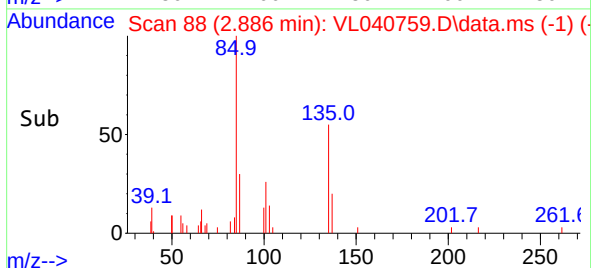
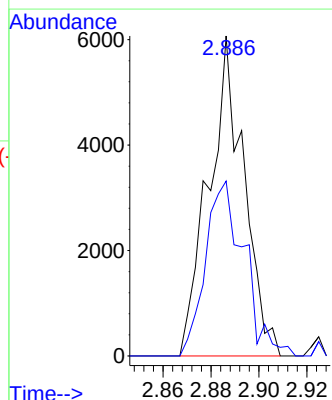
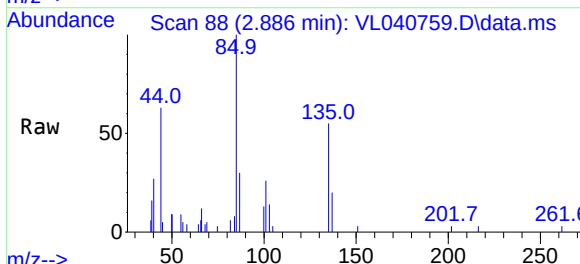
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 94 Resp: 817
Ion Ratio Lower Upper
94 100
96 11.7 72.6 109.0#

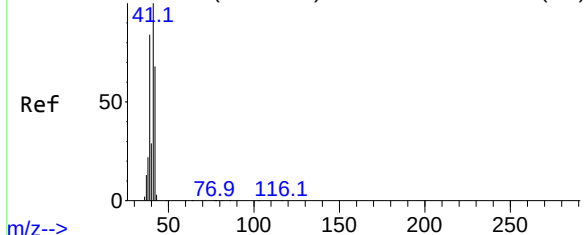


#8
Dichlorotetrafluoroethane
Concen: 0.043 ppbv
RT: 2.886 min Scan# 88
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

Tgt Ion: 85 Resp: 6199
Ion Ratio Lower Upper
85 100
135 60.0 55.4 83.2

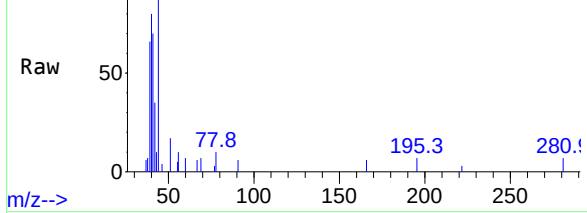


Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



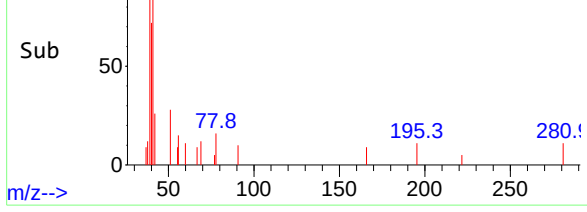
m/z-->

Abundance Scan 37 (2.722 min): VL040759.D\data.ms



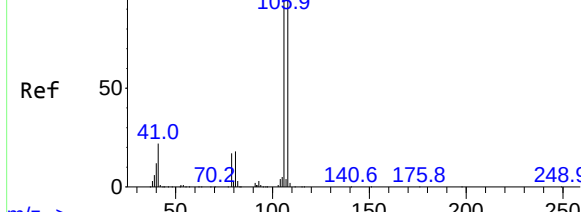
m/z-->

Abundance Scan 37 (2.722 min): VL040759.D\data.ms (-1)



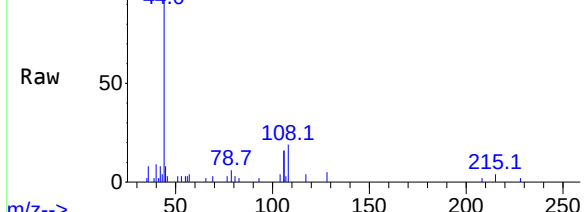
m/z-->

Abundance Scan 244 (3.388 min): VL040754.D\data.ms (-23)



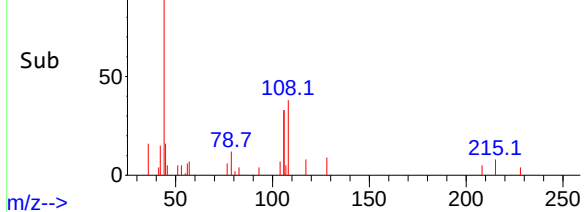
m/z-->

Abundance Scan 245 (3.391 min): VL040759.D\data.ms



m/z-->

Abundance Scan 245 (3.391 min): VL040759.D\data.ms (-89)



m/z-->

#9

Propene

Concen: 0.039 ppbv

RT: 2.722 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL040759.D

Acq: 11 Oct 2023 15:10

Instrument :

MSVOA_L

ClientSampleId :

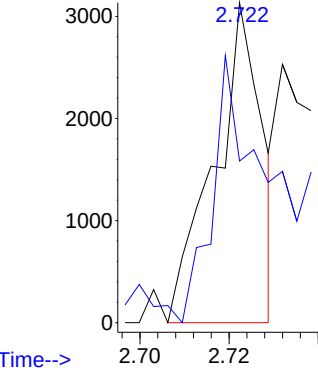
Tgt Ion: 41 Resp: 2304

Ion Ratio Lower Upper

41 100

42 143.1 57.1 85.7#

Abundance



Time-->

#14

Bromoethene

Concen: 0.040 ppbv

RT: 3.391 min Scan# 245

Delta R.T. 0.003 min

Lab File: VL040759.D

Acq: 11 Oct 2023 15:10

Tgt Ion:108 Resp: 1823

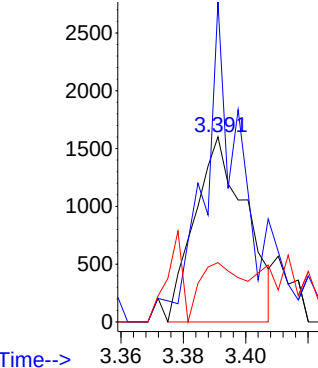
Ion Ratio Lower Upper

108 100

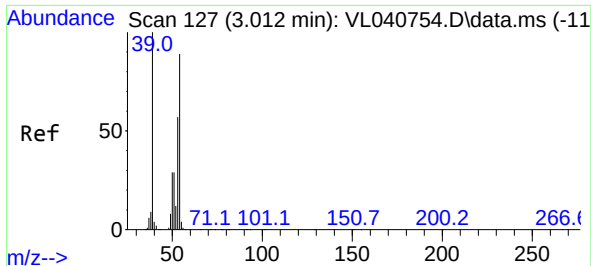
106 152.1 85.2 127.8#

79 0.0 15.7 23.5#

Abundance



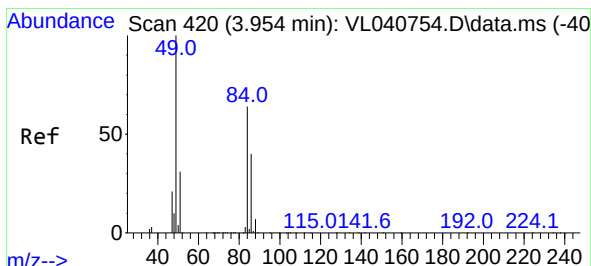
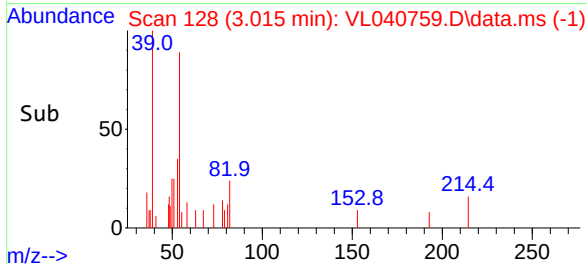
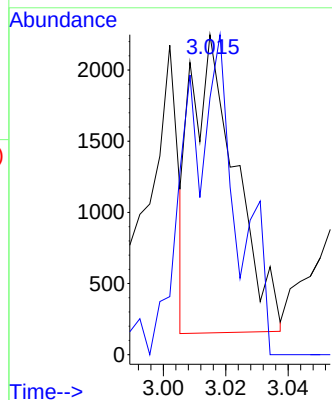
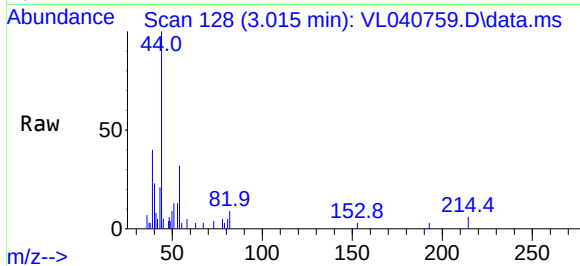
Time-->



#16
1,3-Butadiene
Concen: 0.035 ppbv
RT: 3.015 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

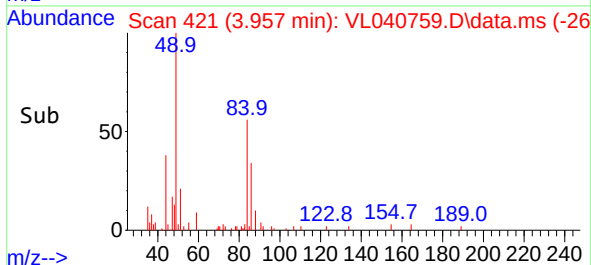
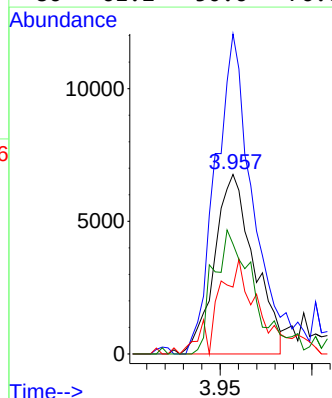
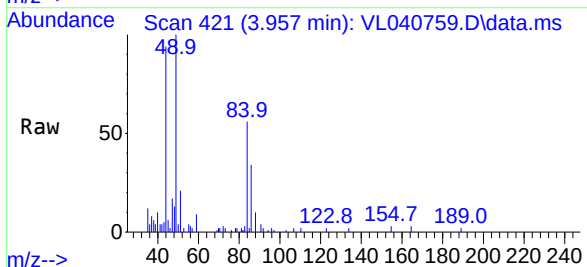
Instrument :
MSVOA_L
ClientSampleId :

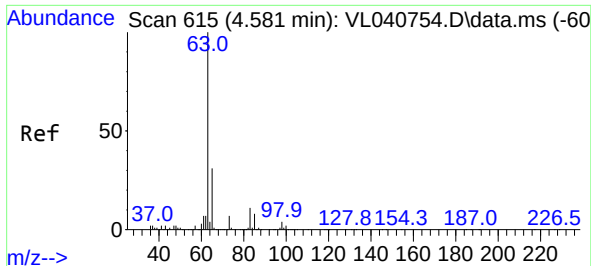
Tgt Ion: 39 Resp: 2071
Ion Ratio Lower Upper
39 100
54 124.2 63.0 94.6#



#20
Methylene Chloride
Concen: 0.215 ppbv
RT: 3.957 min Scan# 421
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

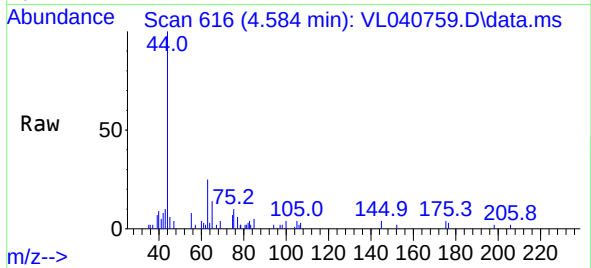
Tgt Ion: 84 Resp: 10094
Ion Ratio Lower Upper
84 100
49 178.2 125.6 188.4
51 31.5 38.9 58.3#
86 61.2 50.6 76.0



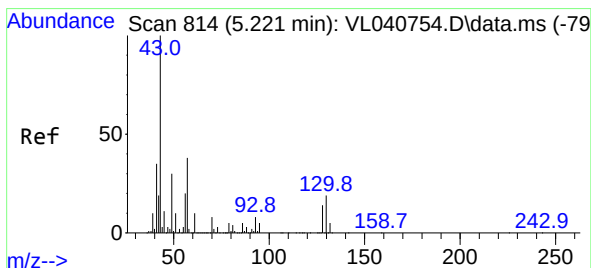
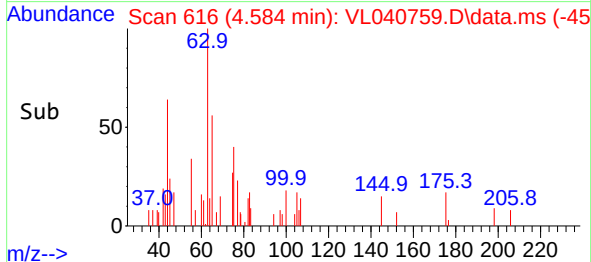
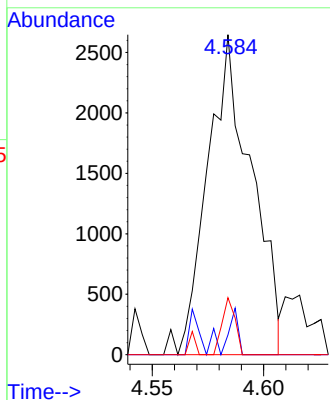


#24
1,1-Dichloroethane
Concen: 0.033 ppbv
RT: 4.584 min Scan# 615
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

Instrument :
MSVOA_L
ClientSampleId :

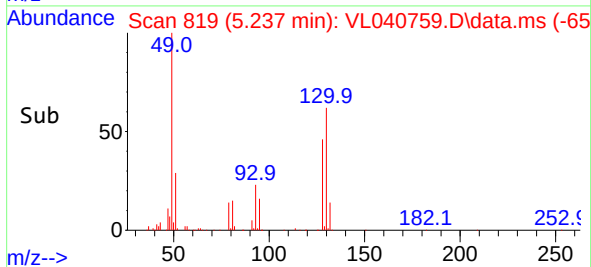
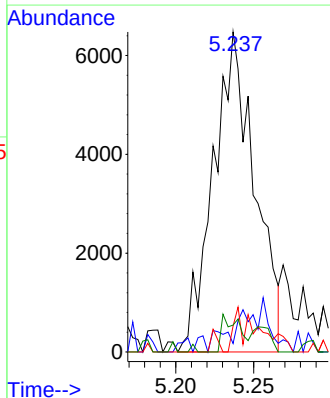
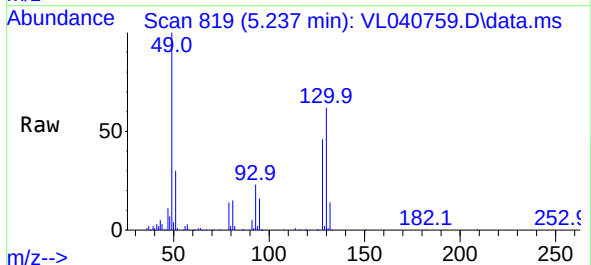


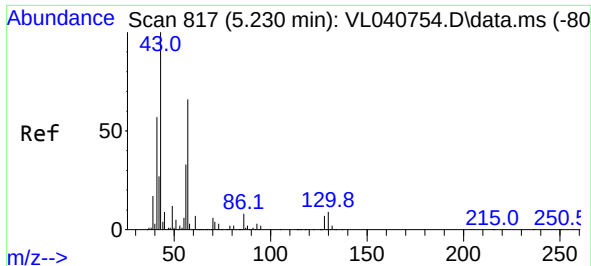
Tgt Ion: 63 Resp: 3594
Ion Ratio Lower Upper
63 100
98 6.2 2.0 5.8#
100 17.8 1.3 3.8#



#25
Ethyl Acetate
Concen: 0.049 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.016 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

Tgt Ion: 43 Resp: 12019
Ion Ratio Lower Upper
43 100
45 0.0 8.2 12.4#
61 0.0 8.2 12.2#
70 9.3 5.8 8.6#

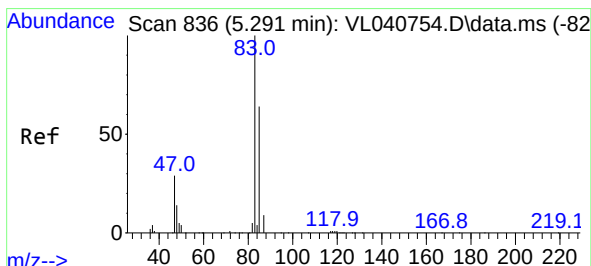
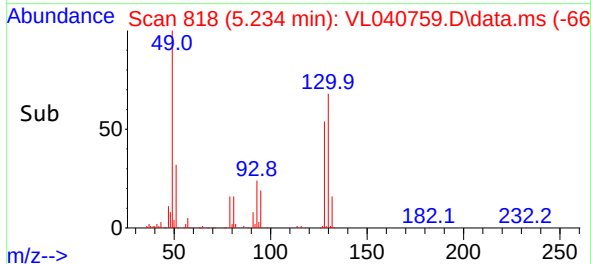
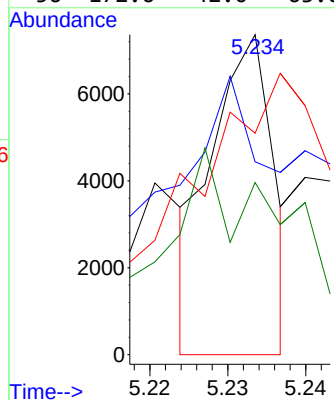
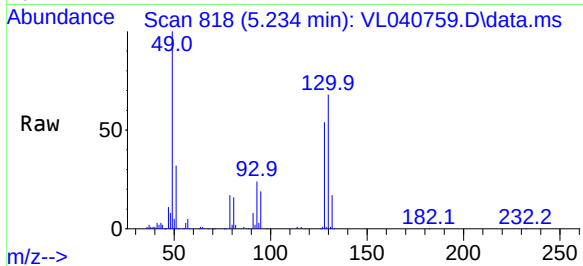




#26
Hexane
Concen: 0.036 ppbv
RT: 5.234 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

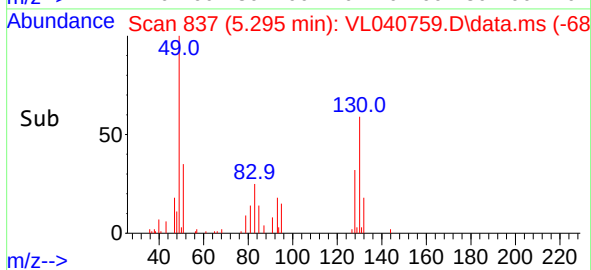
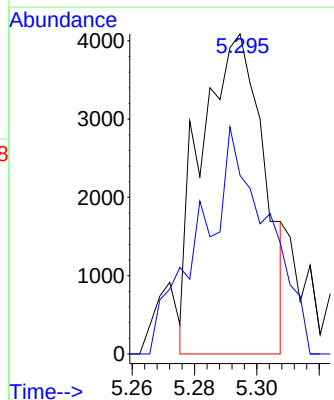
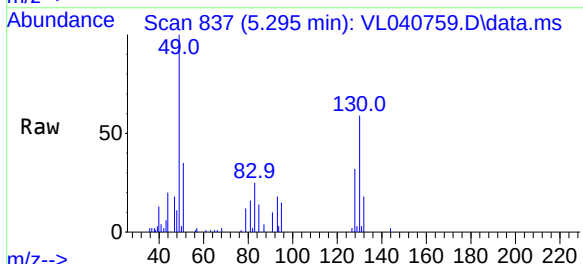
Instrument :
MSVOA_L
ClientSampleId :

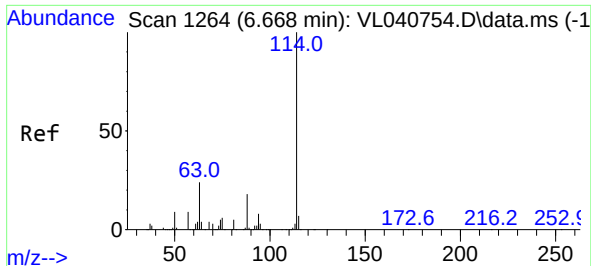
Tgt Ion: 57 Resp: 4051
Ion Ratio Lower Upper
57 100
41 258.8 71.4 107.2#
43 0.0 182.3 273.5#
56 172.6 42.0 63.0#



#29
Chloroform
Concen: 0.035 ppbv
RT: 5.295 min Scan# 837
Delta R.T. 0.003 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

Tgt Ion: 83 Resp: 5736
Ion Ratio Lower Upper
83 100
85 31.7 51.3 76.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. -0.000 min

Lab File: VL040759.D

Acq: 11 Oct 2023 15:10

Instrument :

MSVOA_L

ClientSampleId :

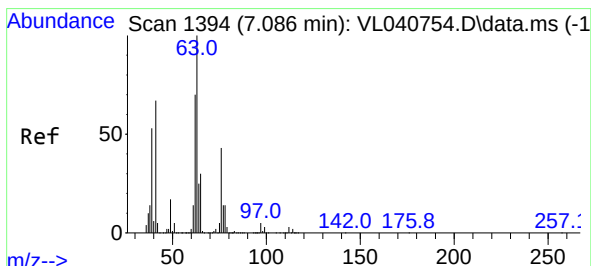
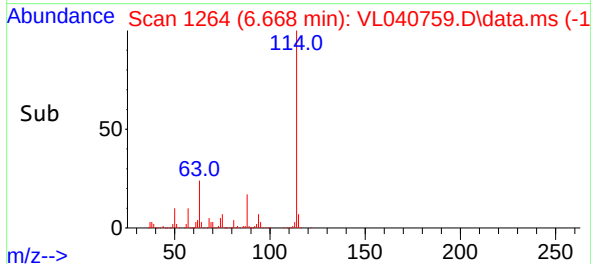
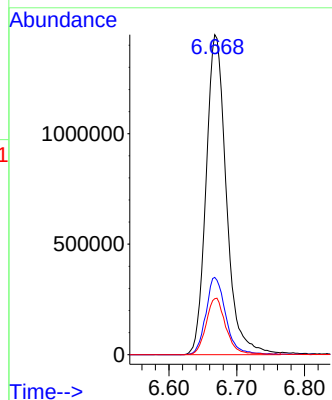
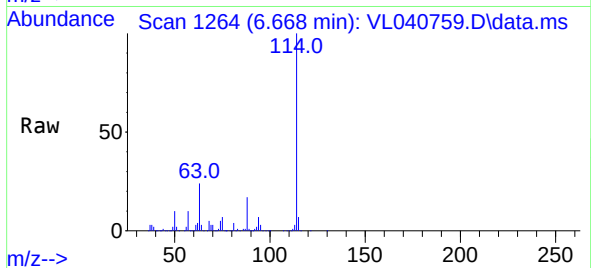
Tgt Ion:114 Resp: 3007955

Ion Ratio Lower Upper

114 100

63 24.0 19.8 29.6

88 17.4 14.2 21.2



#39

1,2-Dichloropropane

Concen: 7.832 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. -0.418 min

Lab File: VL040759.D

Acq: 11 Oct 2023 15:10

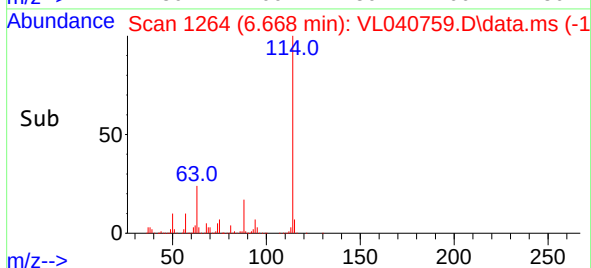
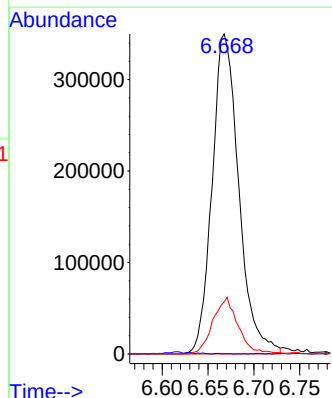
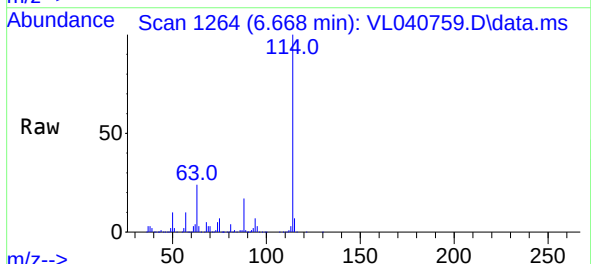
Tgt Ion: 63 Resp: 707977

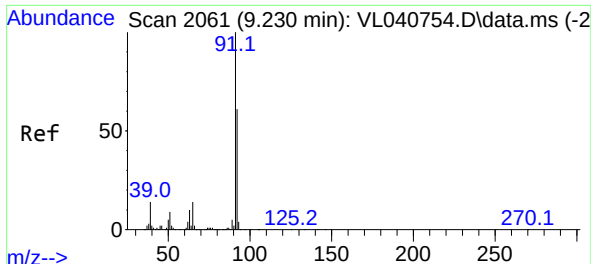
Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 16.3 55.7 83.5#

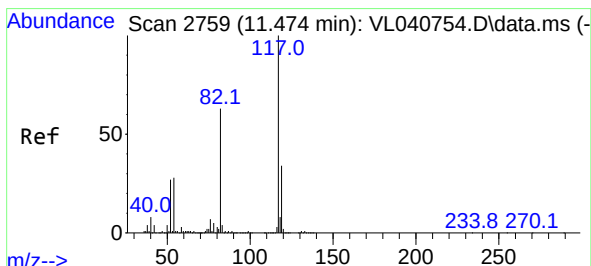
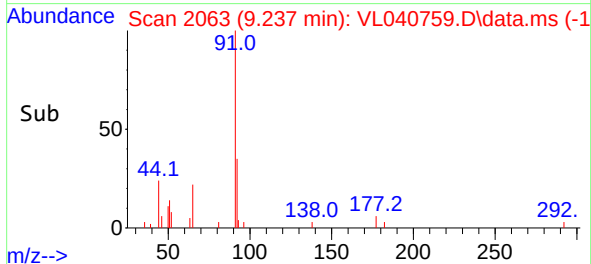
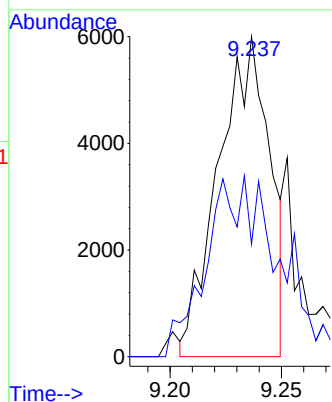
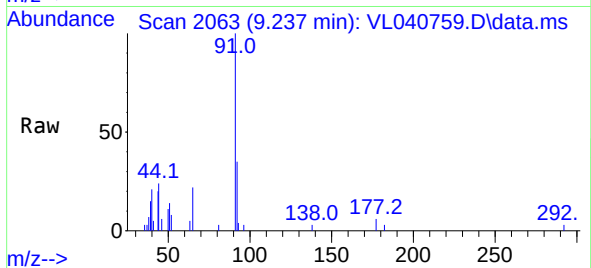




#53
Toluene
Concen: 0.035 ppbv
RT: 9.237 min Scan# 2063
Delta R.T. 0.006 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

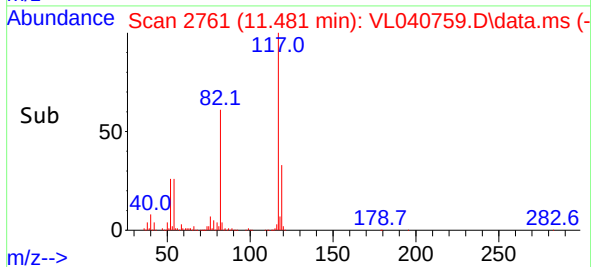
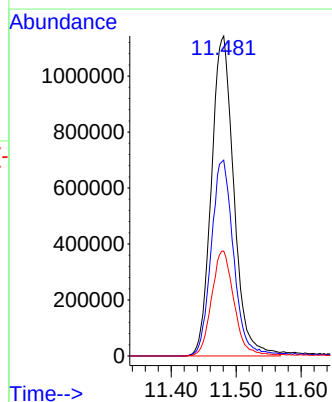
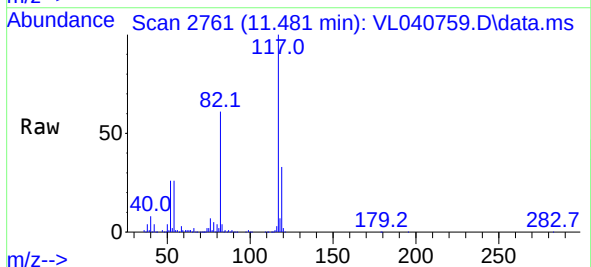
Instrument :
MSVOA_L
ClientSampleId :

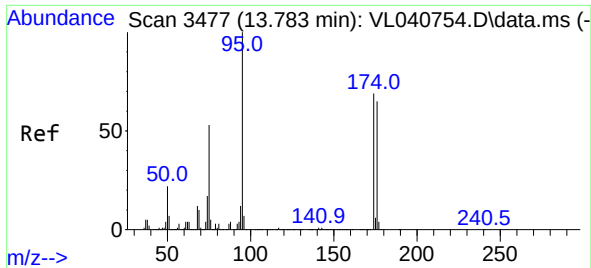
Tgt Ion: 91 Resp: 9585
Ion Ratio Lower Upper
91 100
92 79.3 50.2 75.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.006 min
Lab File: VL040759.D
Acq: 11 Oct 2023 15:10

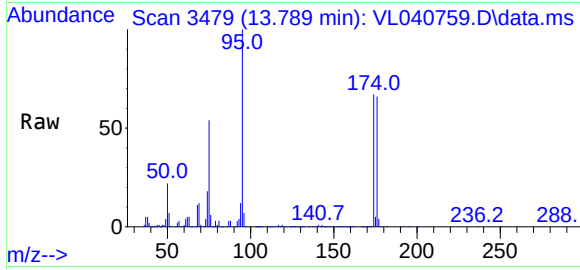
Tgt Ion: 117 Resp: 2739380
Ion Ratio Lower Upper
117 100
82 61.5 46.6 70.0
119 33.6 26.0 39.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.149 ppbv
 RT: 13.789 min Scan# 34
 Delta R.T. 0.006 min
 Lab File: VL040759.D
 Acq: 11 Oct 2023 15:10

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 2045737

Ion	Ratio	Lower	Upper
95	100		
174	70.4	54.7	82.1
175	5.2	4.2	6.4

