

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040773.D
 Acq On : 12 Oct 2023 2:26
 Operator : SY/MD
 Sample : 04699-14 LOQ 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2023

Quant Time: Oct 13 01:22:27 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)

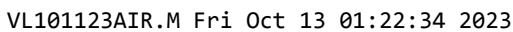
Internal Standards						
1) Bromochloromethane	5.211	49	920936	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2642377	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2405780	10.000	ppbv	0.00

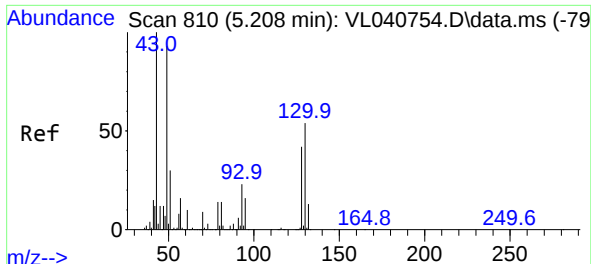
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1842091	10.406	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.761	85	6784	0.042	ppbv	91
3) Chlorodifluoromethane	2.703	51	6009	0.044	ppbv	95
4) Chloromethane	2.851	50	2376	0.044	ppbv #	63
6) Bromomethane	3.157	94	699	0.031	ppbv #	4
7) Chloroethane	3.227	64	664	0.037	ppbv #	43
8) Dichlorotetrafluoroethane	2.890	85	5711	0.046	ppbv	95
11) Trichlorofluoromethane	3.591	101	4493	0.036	ppbv #	39
18) 1,1-Dichloroethene	3.899	96	1879	0.047	ppbv #	55
20) Methylene Chloride	3.954	84	5659	0.143	ppbv	96
24) 1,1-Dichloroethane	4.584	63	2795	0.031	ppbv #	89
26) Hexane	5.230	57	4561	0.048	ppbv #	32
29) Chloroform	5.292	83	4670	0.034	ppbv #	46
32) 1,1,1-Trichloroethane	6.018	97	4554	0.031	ppbv #	76
36) Benzene	6.388	78	8326	0.041	ppbv #	86
37) 1,2-Dichloroethane	5.828	62	3594	0.035	ppbv	97
39) 1,2-Dichloropropane	6.668	63	627029	7.897	ppbv #	26
57) Chlorobenzene	11.532	112	5218	0.030	ppbv #	73

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

Quant Time: Oct 13 01:22:27 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

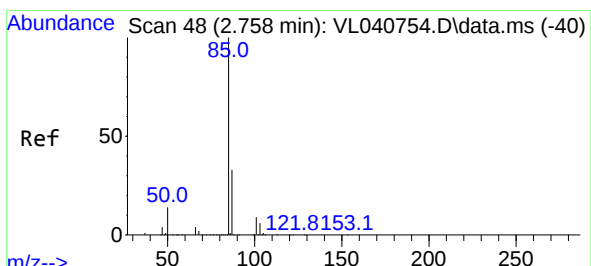
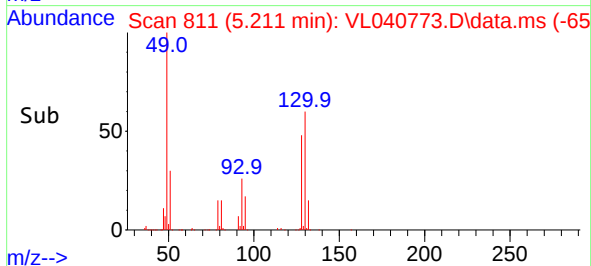
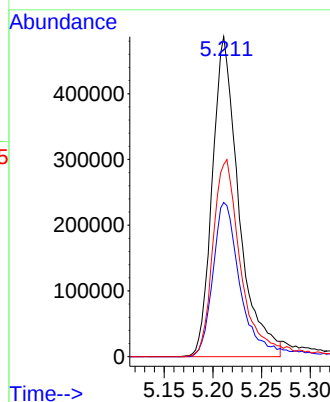
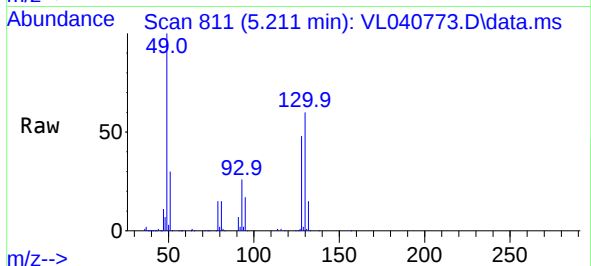




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

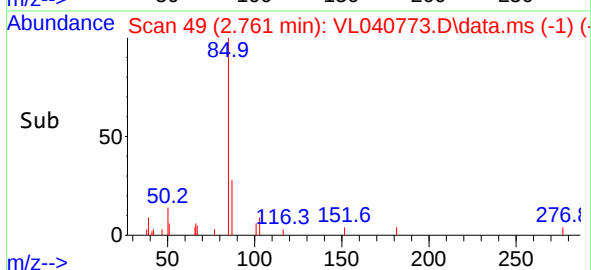
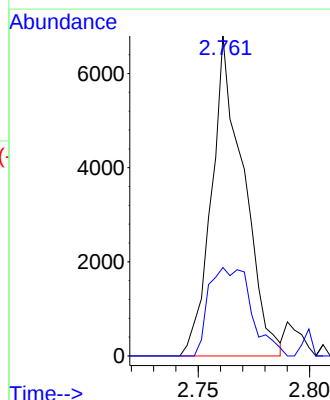
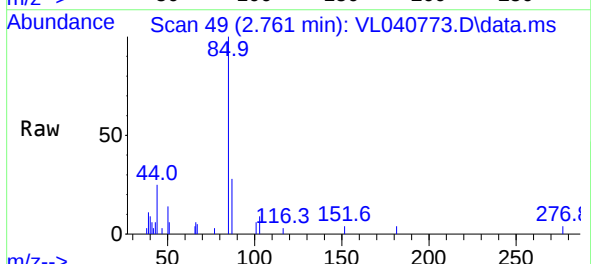
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

Tgt Ion: 49 Resp: 920936
Ion Ratio Lower Upper
49 100
128 52.0 23.9 71.7
130 68.8 30.7 92.1

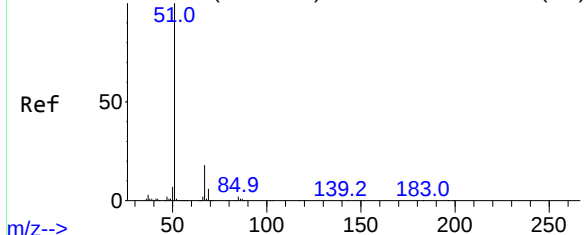


#2
Dichlorodifluoromethane
Concen: 0.042 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

Tgt Ion: 85 Resp: 6784
Ion Ratio Lower Upper
85 100
87 27.6 26.0 39.0



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

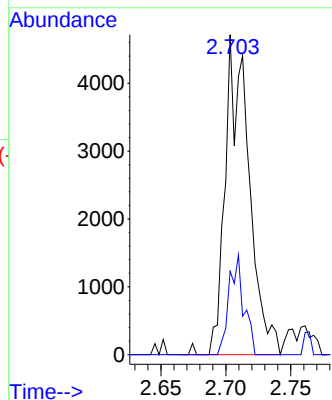
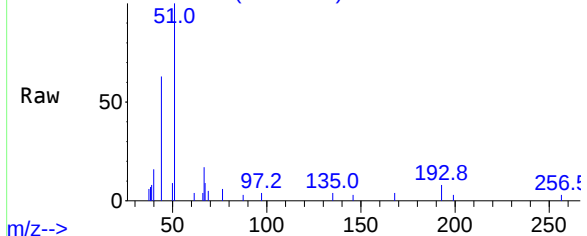


#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

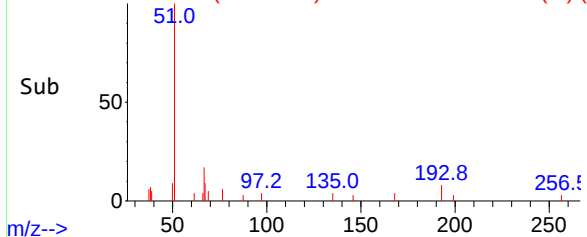
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

Tgt Ion: 51 Resp: 6009
Ion Ratio Lower Upper
51 100
67 19.3 13.8 20.6

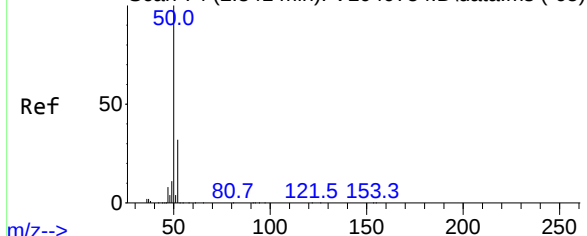
Abundance Scan 31 (2.703 min): VL040773.D\data.ms



Abundance Scan 31 (2.703 min): VL040773.D\data.ms (-1)



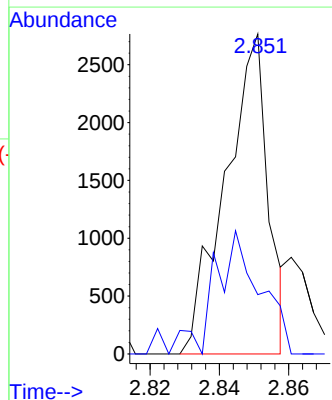
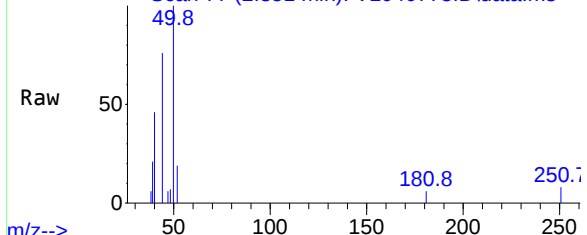
Abundance Scan 74 (2.841 min): VL040754.D\data.ms (-65)



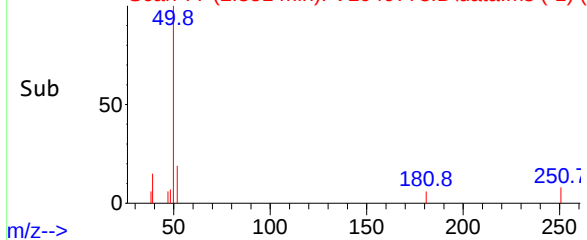
#4
Chloromethane
Concen: 0.044 ppbv
RT: 2.851 min Scan# 77
Delta R.T. 0.010 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

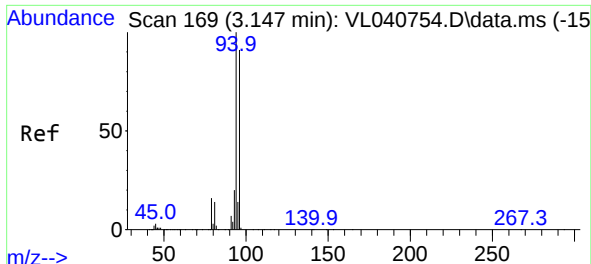
Tgt Ion: 50 Resp: 2376
Ion Ratio Lower Upper
50 100
52 11.2 25.3 37.9#

Abundance Scan 77 (2.851 min): VL040773.D\data.ms



Abundance Scan 77 (2.851 min): VL040773.D\data.ms (-1)

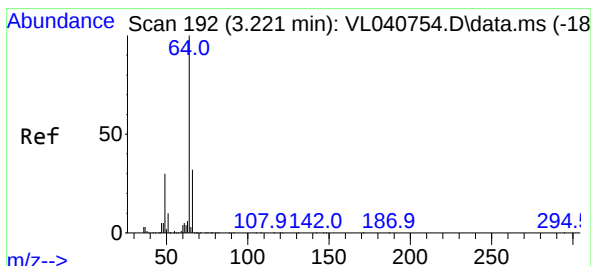
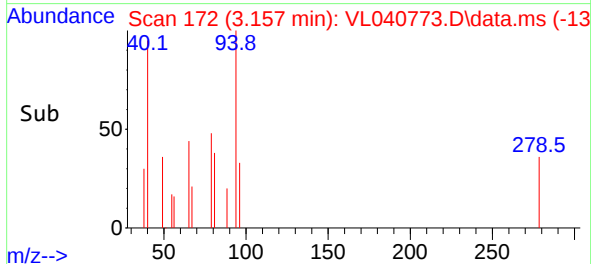
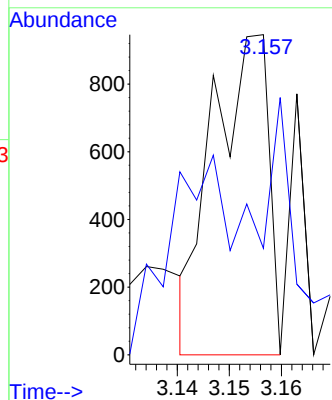
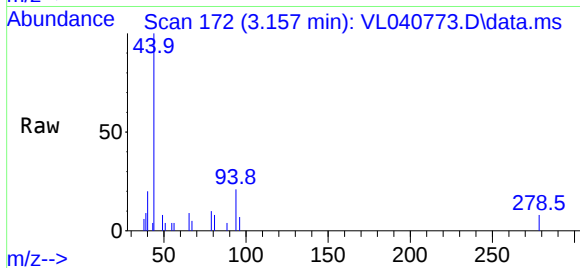




#6
Bromomethane
Concen: 0.031 ppbv
RT: 3.157 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

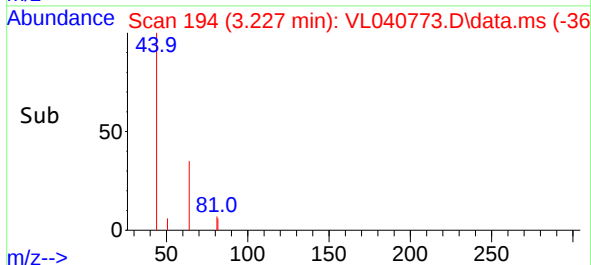
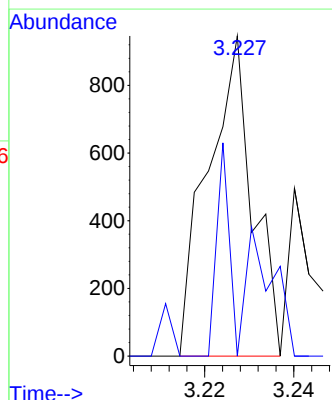
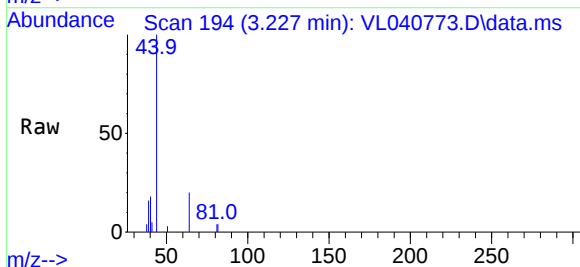
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

Tgt Ion: 94 Resp: 699
Ion Ratio Lower Upper
94 100
96 0.0 72.6 109.0#

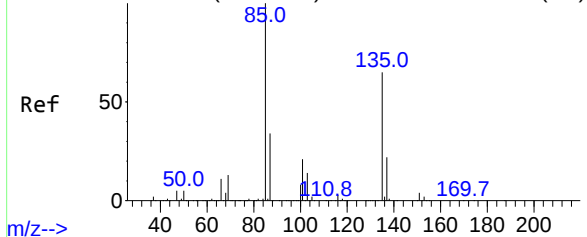


#7
Chloroethane
Concen: 0.037 ppbv
RT: 3.227 min Scan# 194
Delta R.T. 0.007 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

Tgt Ion: 64 Resp: 664
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



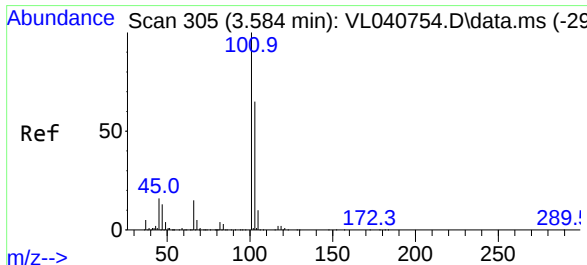
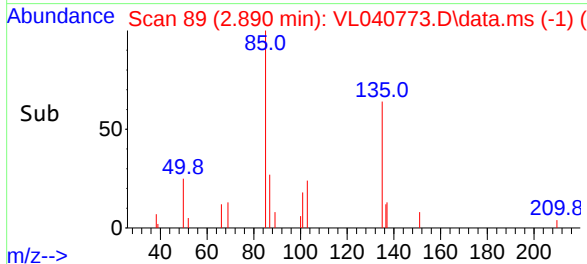
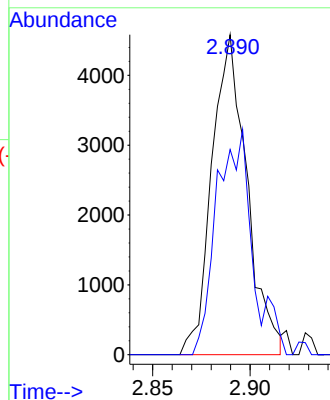
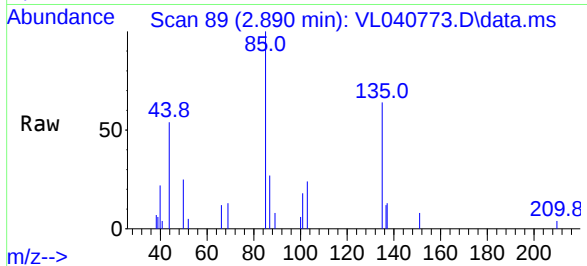
Abundance Scan 87 (2.883 min): VL040754.D\data.ms (-79)



#8
Dichlorotetrafluoroethane
Concen: 0.046 ppbv
RT: 2.890 min Scan# 89
Delta R.T. 0.007 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

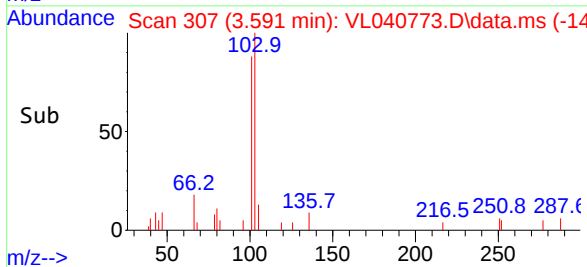
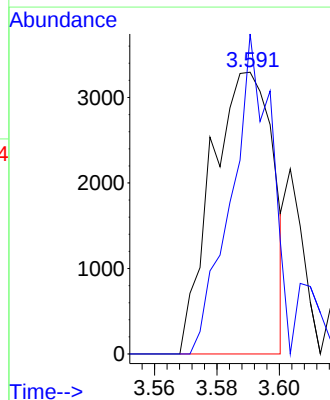
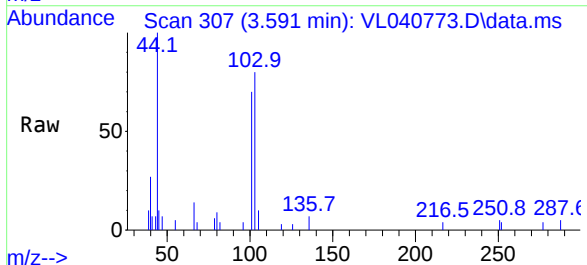
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

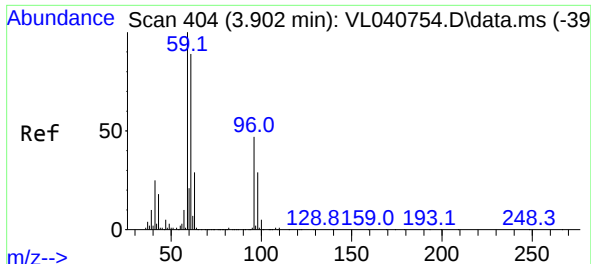
Tgt Ion: 85 Resp: 5711
Ion Ratio Lower Upper
85 100
135 73.2 55.4 83.2



#11
Trichlorofluoromethane
Concen: 0.036 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.007 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

Tgt Ion: 101 Resp: 4493
Ion Ratio Lower Upper
101 100
103 113.6 52.2 78.2#





#18

1,1-Dichloroethene

Concen: 0.047 ppbv

RT: 3.899 min Scan# 404

Delta R.T. -0.003 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2023

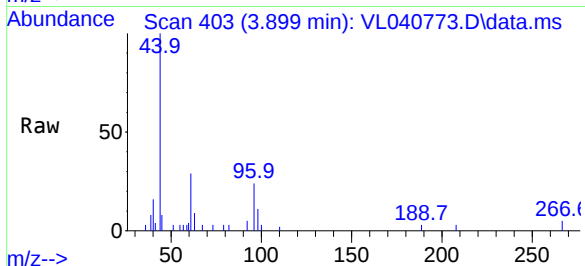
Tgt Ion: 96 Resp: 1879

Ion Ratio Lower Upper

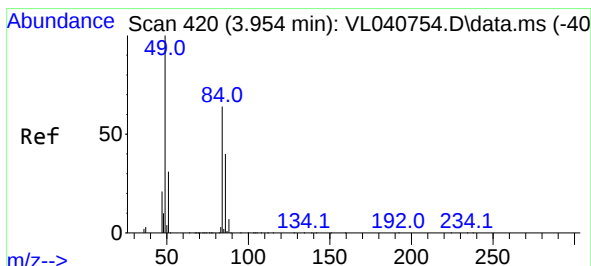
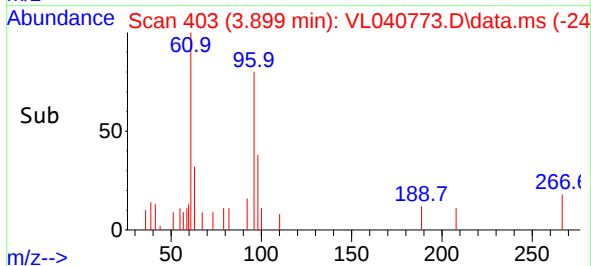
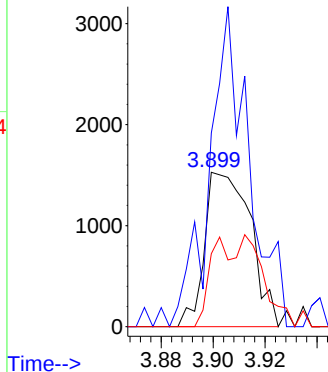
96 100

61 112.4 152.5 228.7#

98 47.3 49.6 74.4#



Abundance



#20

Methylene Chloride

Concen: 0.143 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.000 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

Tgt Ion: 84 Resp: 5659

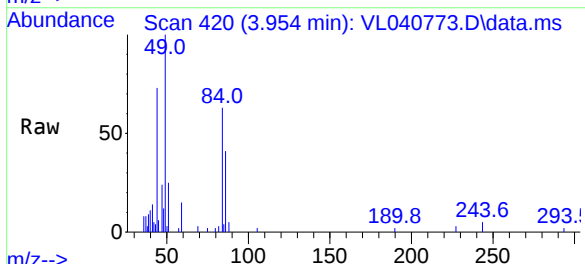
Ion Ratio Lower Upper

84 100

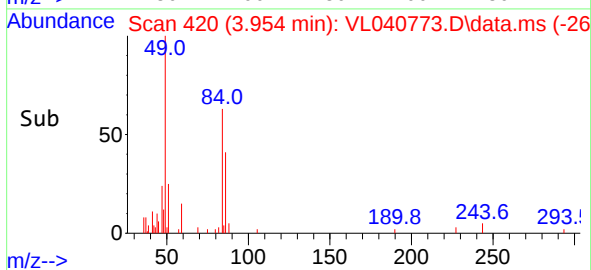
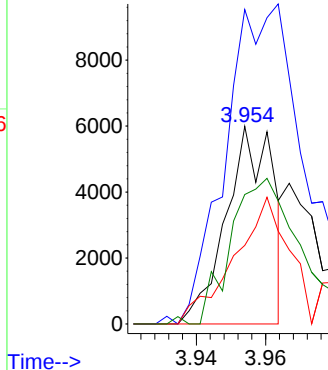
49 159.1 125.6 188.4

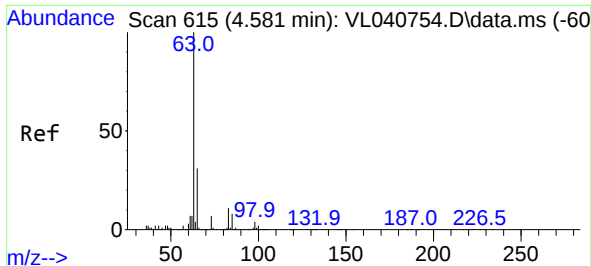
51 39.8 38.9 58.3

86 61.8 50.6 76.0



Abundance

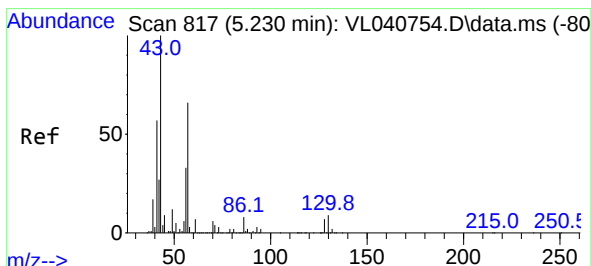
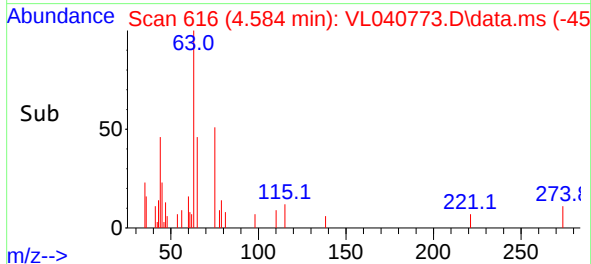
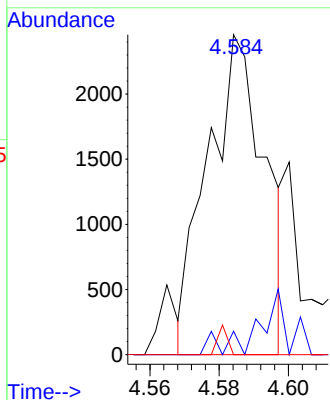
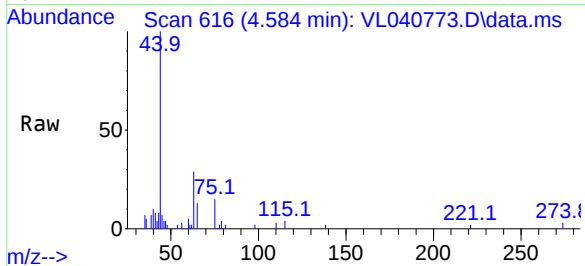




#24
1,1-Dichloroethane
Concen: 0.031 ppbv
RT: 4.584 min Scan# 615
Delta R.T. 0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

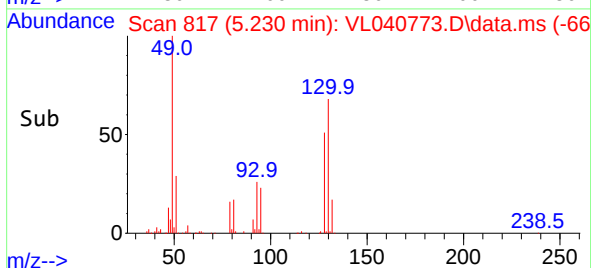
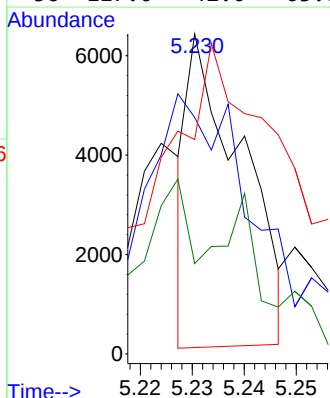
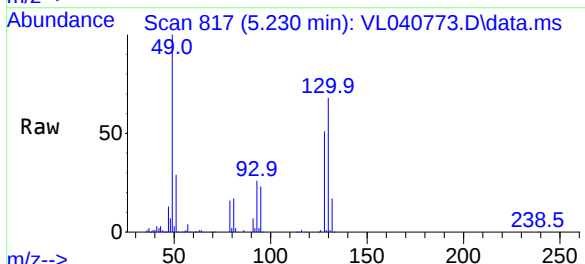
Instrument :
MSVOA_L
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LOQ-AIR-02-QT4-2023

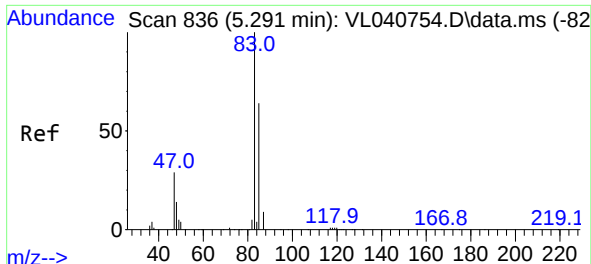
Tgt Ion: 63 Resp: 2795
Ion Ratio Lower Upper
63 100
98 8.2 2.0 5.8#
100 0.0 1.3 3.8#



#26
Hexane
Concen: 0.048 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.000 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

Tgt Ion: 57 Resp: 4561
Ion Ratio Lower Upper
57 100
41 202.6 71.4 107.2#
43 296.1 182.3 273.5#
56 117.0 42.0 63.0#

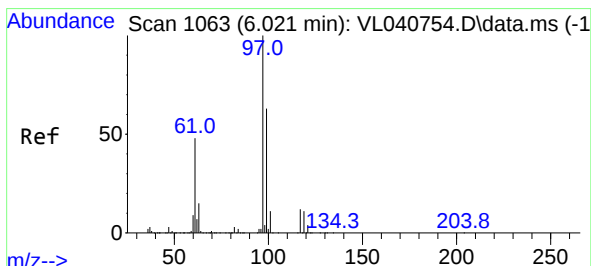
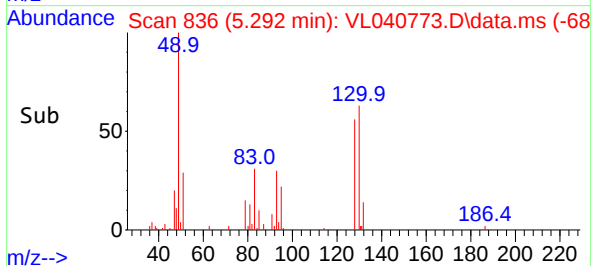
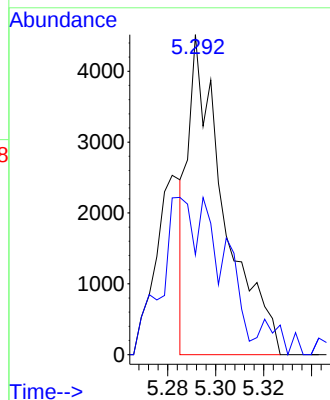
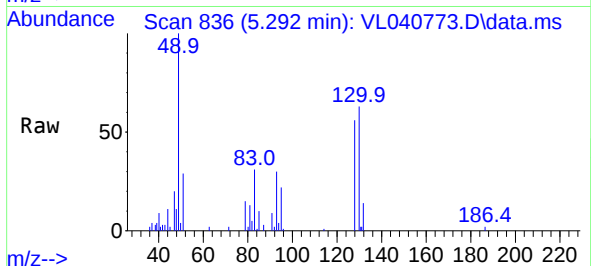




#29
Chloroform
Concen: 0.034 ppbv
RT: 5.292 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

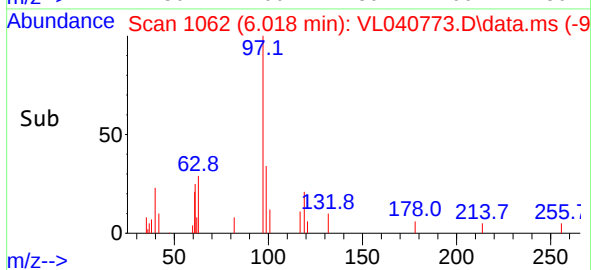
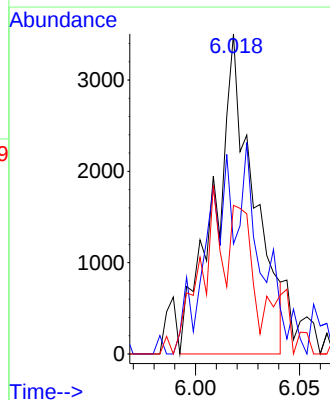
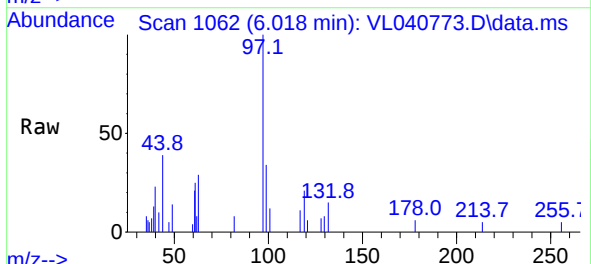
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

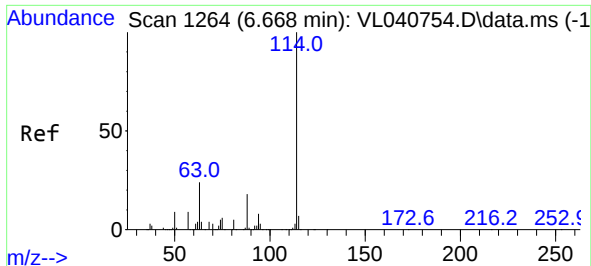
Tgt Ion: 83 Resp: 4670
Ion Ratio Lower Upper
83 100
85 21.9 51.3 76.9#



#32
1,1,1-Trichloroethane
Concen: 0.031 ppbv
RT: 6.018 min Scan# 1062
Delta R.T. -0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

Tgt Ion: 97 Resp: 4554
Ion Ratio Lower Upper
97 100
99 81.8 51.8 77.6#
61 67.2 38.6 58.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2023

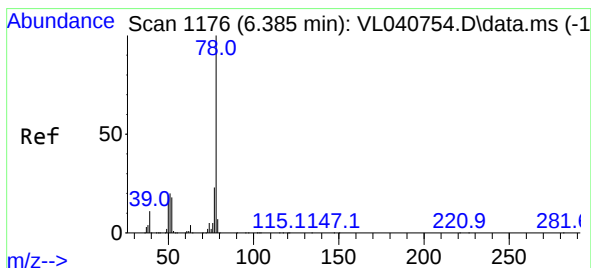
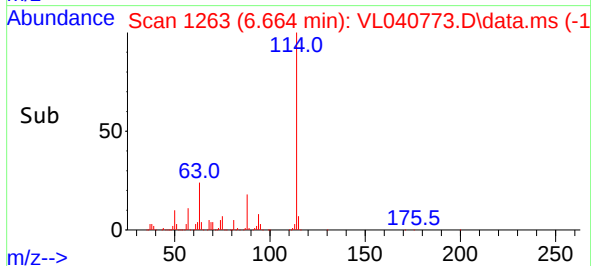
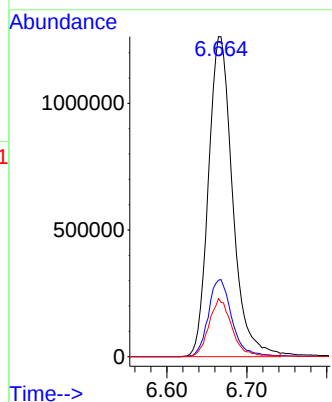
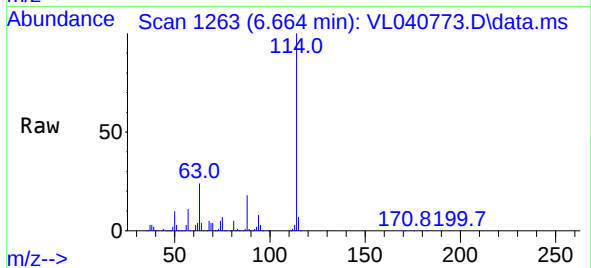
Tgt Ion:114 Resp: 2642377

Ion Ratio Lower Upper

114 100

63 24.0 19.8 29.6

88 17.4 14.2 21.2



#36

Benzene

Concen: 0.041 ppbv

RT: 6.388 min Scan# 1177

Delta R.T. 0.003 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

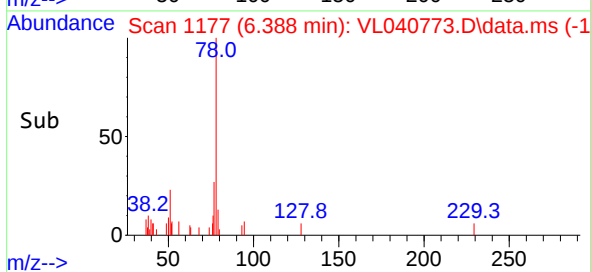
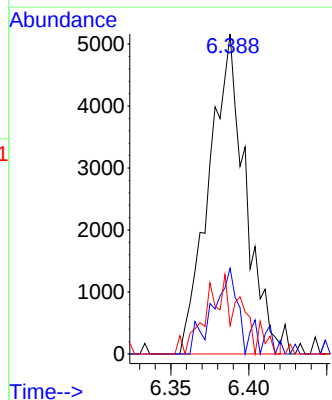
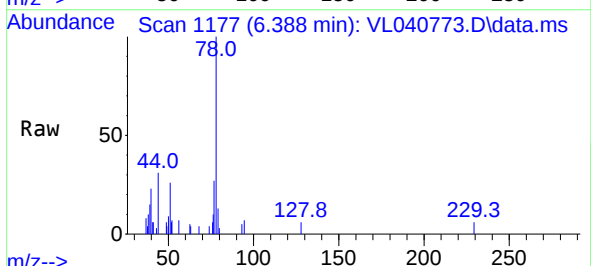
Tgt Ion: 78 Resp: 8326

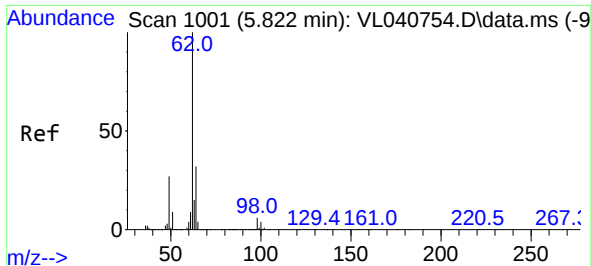
Ion Ratio Lower Upper

78 100

77 26.8 18.4 27.6

50 8.9 15.0 22.4#

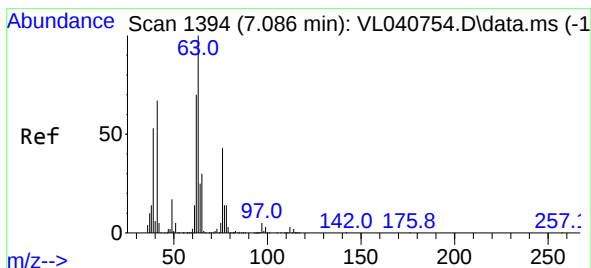
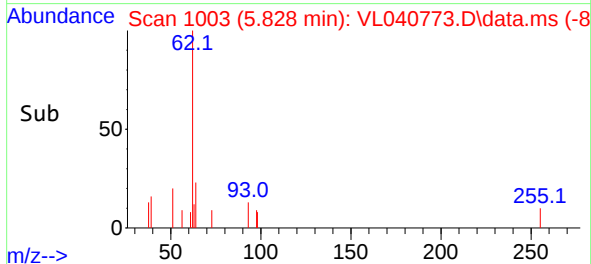
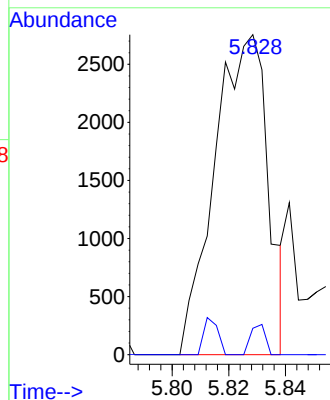
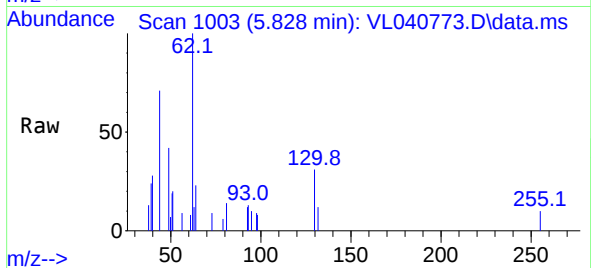




#37
1,2-Dichloroethane
Concen: 0.035 ppbv
RT: 5.828 min Scan# 1001
Delta R.T. 0.007 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

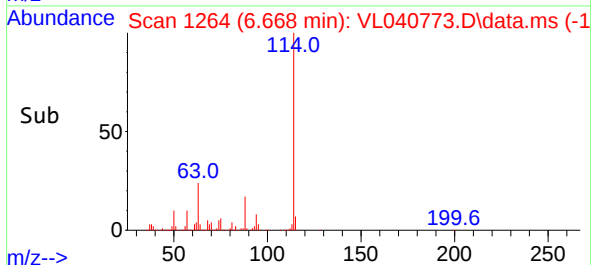
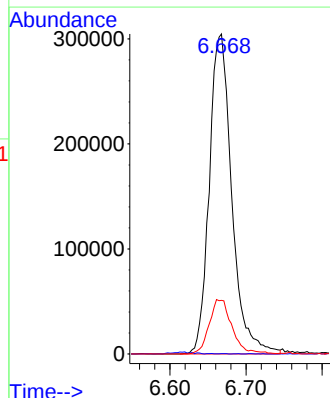
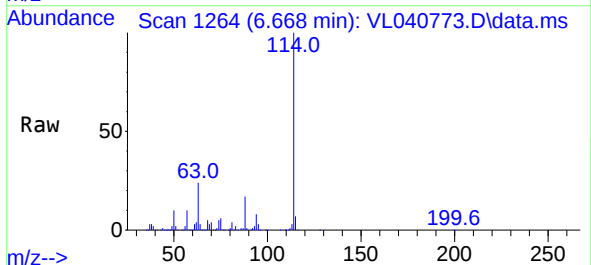
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

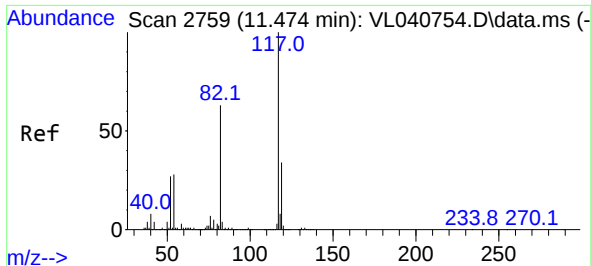
Tgt Ion: 62 Resp: 3594
Ion Ratio Lower Upper
62 100
98 5.7 5.4 8.0



#39
1,2-Dichloropropane
Concen: 7.897 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. -0.418 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

Tgt Ion: 63 Resp: 627029
Ion Ratio Lower Upper
63 100
41 0.0 53.7 80.5#
62 16.8 55.7 83.5#

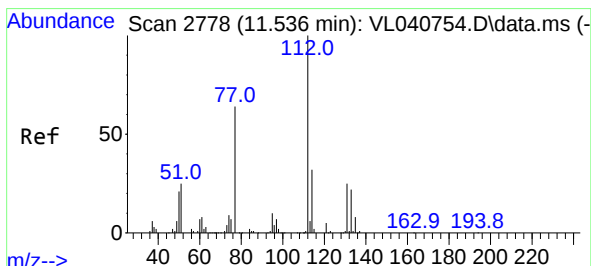
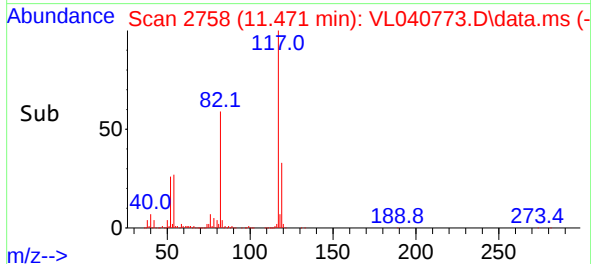
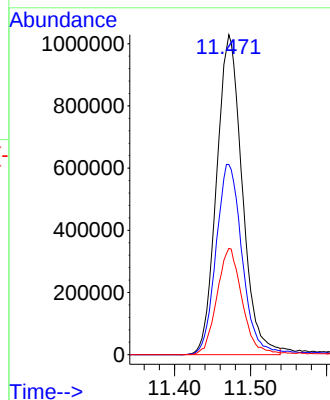
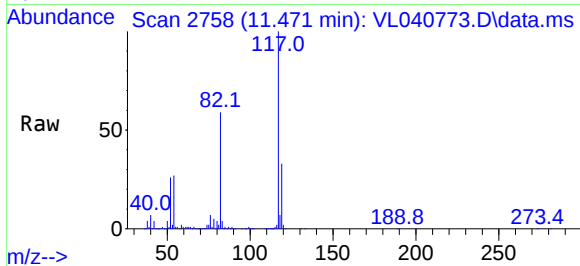




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

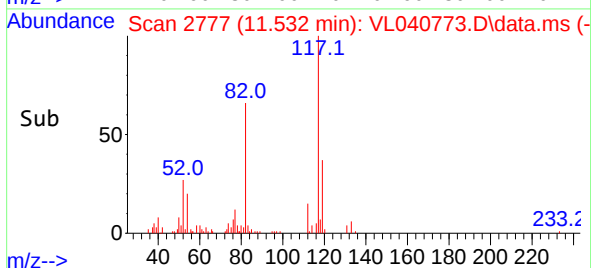
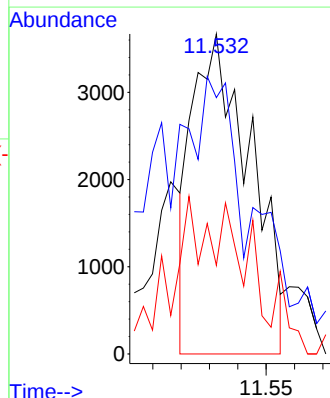
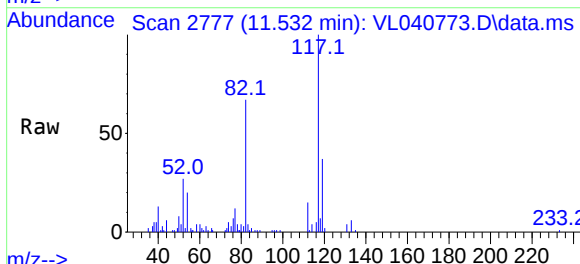
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

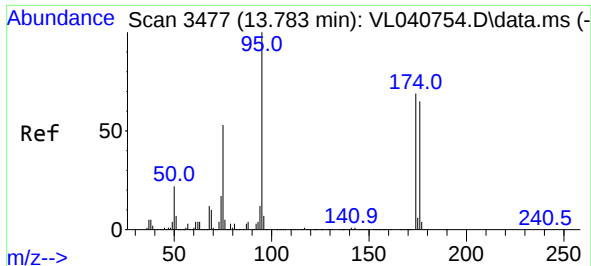
Tgt Ion:117 Resp: 2405780
Ion Ratio Lower Upper
117 100
82 62.4 46.6 70.0
119 33.7 26.0 39.0



#57
Chlorobenzene
Concen: 0.030 ppbv
RT: 11.532 min Scan# 2777
Delta R.T. -0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

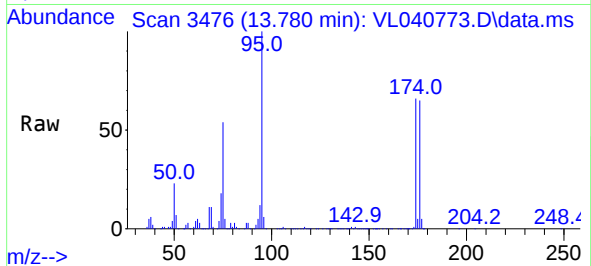
Tgt Ion:112 Resp: 5218
Ion Ratio Lower Upper
112 100
77 54.1 51.9 77.9
114 2.2 28.6 35.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.406 ppbv
 RT: 13.780 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL040773.D
 Acq: 12 Oct 2023 2:26

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2023



Tgt Ion: 95 Resp: 1842091

Ion	Ratio	Lower	Upper
95	100		
174	67.3	54.7	82.1
175	5.1	4.2	6.4

