

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122223\
 Data File : VL040961.D
 Acq On : 22 Dec 2023 16:56
 Operator : SY/MD
 Sample : QC112823 CAN 10306
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 23 01:22:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 22 23:57:16 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1002087	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2394506	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	1996874	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	1499979	10.198	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.774	85	9299	0.049	ppbv #	75
3) Chlorodifluoromethane	2.722	51	7449	0.049	ppbv	96
4) Chloromethane	2.854	50	2166	0.039	ppbv #	55
5) Vinyl Chloride	2.960	62	1646	0.031	ppbv #	72
11) Trichlorofluoromethane	3.591	101	6198	0.042	ppbv #	73
13) Ethanol	3.298	45	835	0.067	ppbv	64
15) Acetone	3.520	43	43454	0.362	ppbv #	86
18) 1,1-Dichloroethene	3.906	96	1534	0.032	ppbv #	44
20) Methylene Chloride	3.951	84	13772	0.321	ppbv #	81
25) Ethyl Acetate	5.221	43	9679	0.046	ppbv #	80
26) Hexane	5.217	57	3950	0.043	ppbv #	1
27) Carbon Disulfide	4.147	76	4585	0.037	ppbv #	8
37) 1,2-Dichloroethane	5.806	62	3587	0.032	ppbv #	83
38) Trichloroethene	7.272	130	4276	0.061	ppbv #	56
39) 1,2-Dichloropropane	6.645	63	629977	8.564	ppbv #	24
44) 2,2,4-Trimethylpentane	7.317	57	14549	0.046	ppbv #	5
52) Tetrachloroethene	10.590	164	26347	0.418	ppbv	91

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

Instrument :

MSVOA L

ClientSampleId :

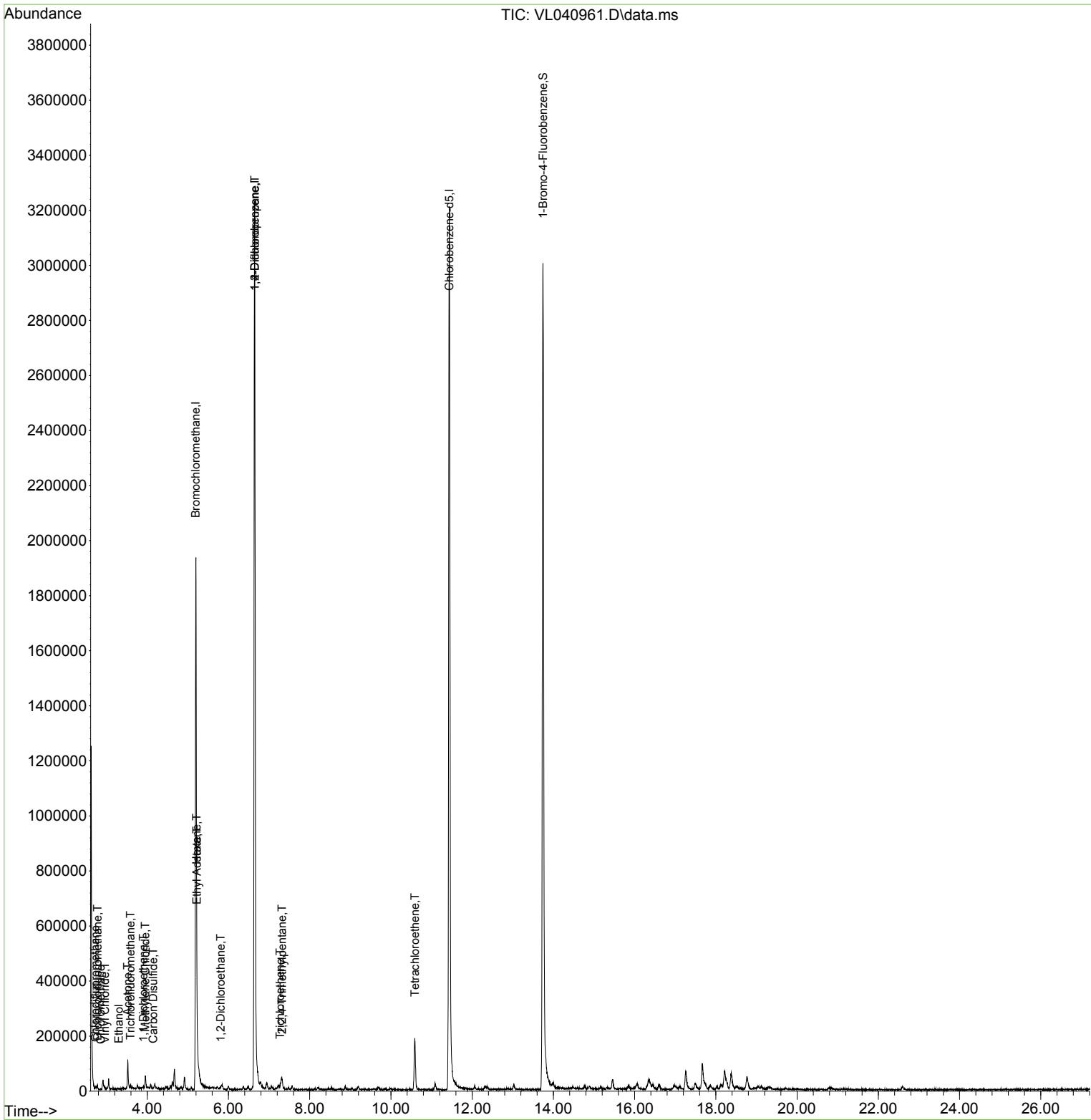
Quant Time: Dec 23 01:22:08 2023

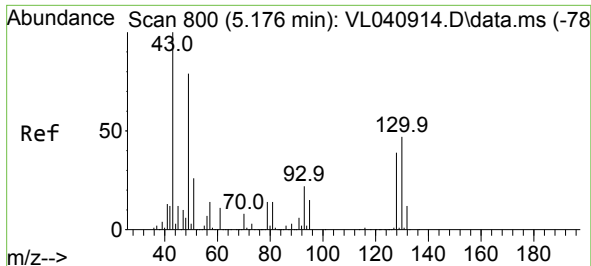
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Fri Dec 22 23:57:16 2023

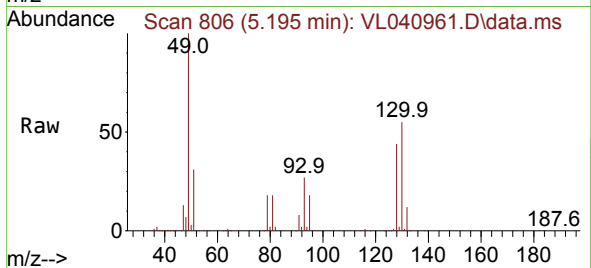
Response via : Initial Calibration



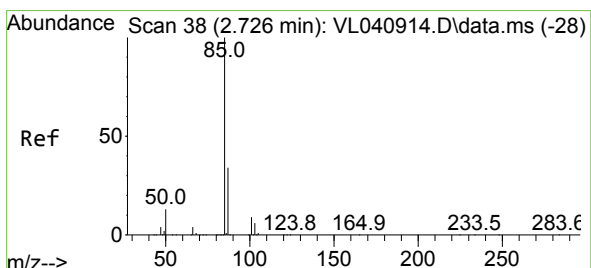
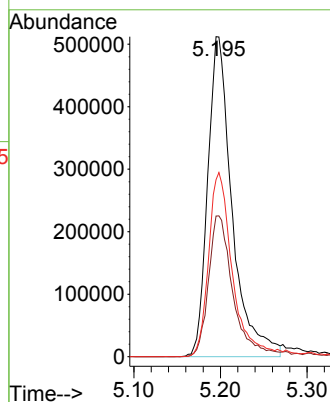
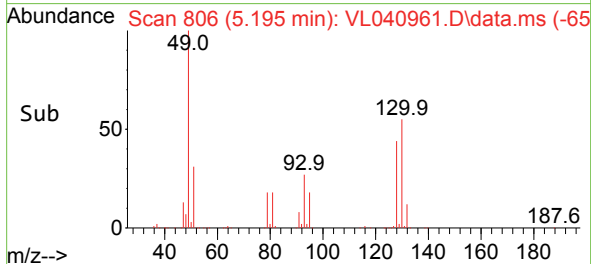


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

Instrument :
MSVOA_L
ClientSampleId :

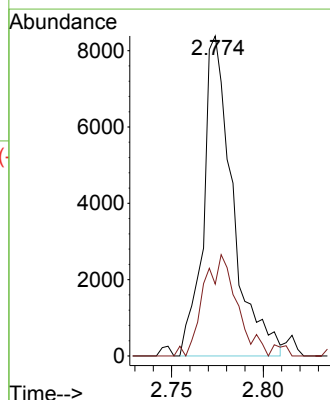
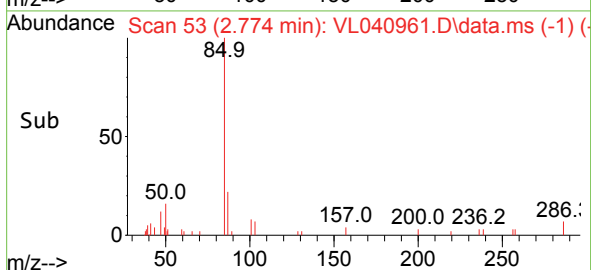
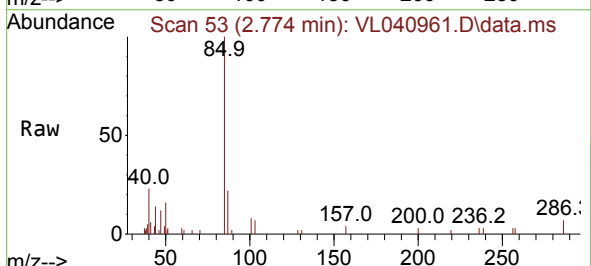


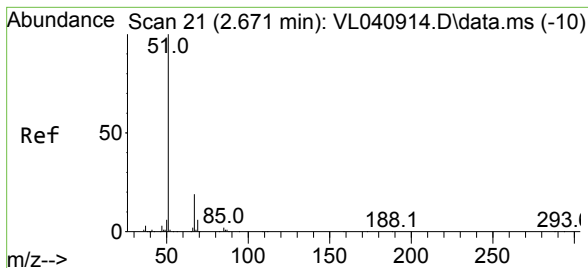
Tgt Ion: 49 Resp: 1002087
Ion Ratio Lower Upper
49 100
128 46.4 23.8 71.2
130 58.7 30.1 90.5



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 2.774 min Scan# 53
Delta R.T. 0.003 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

Tgt Ion: 85 Resp: 9299
Ion Ratio Lower Upper
85 100
87 19.7 27.0 40.6#

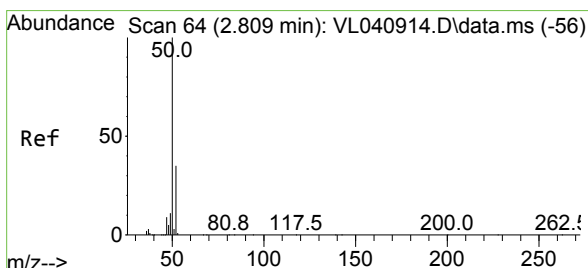
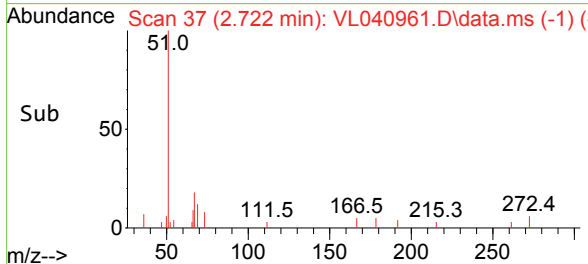
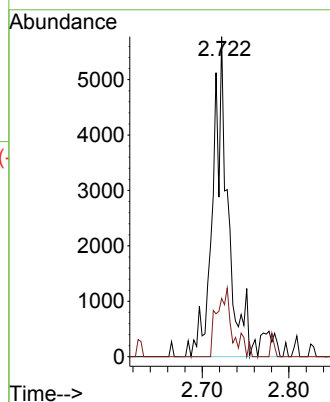
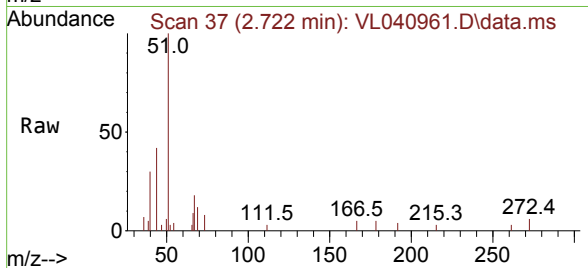




#3
Chlorodifluoromethane
Concen: 0.049 ppbv
RT: 2.722 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

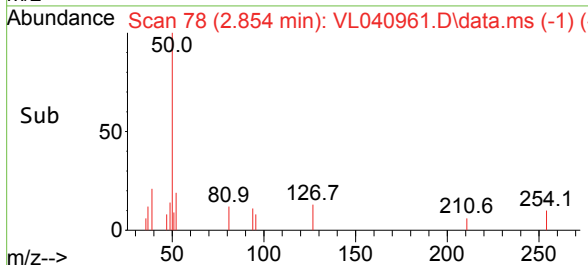
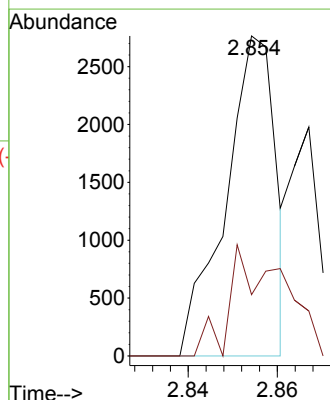
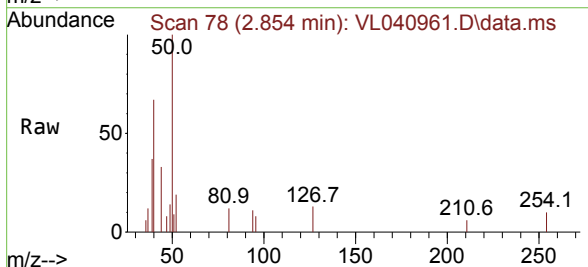
Instrument :
MSVOA_L
ClientSampleId :

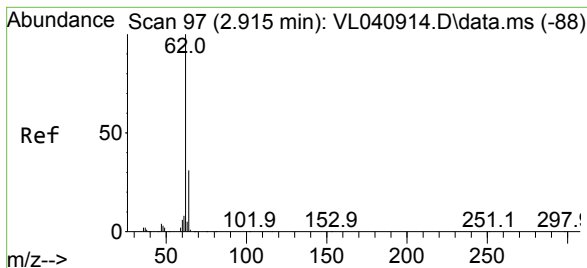
Tgt Ion: 51 Resp: 7449
Ion Ratio Lower Upper
51 100
67 20.3 14.7 22.1



#4
Chloromethane
Concen: 0.039 ppbv
RT: 2.854 min Scan# 78
Delta R.T. -0.000 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

Tgt Ion: 50 Resp: 2166
Ion Ratio Lower Upper
50 100
52 8.7 28.0 42.0#

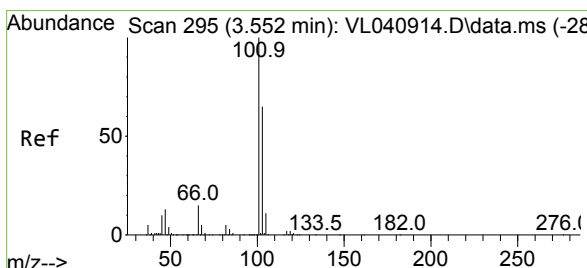
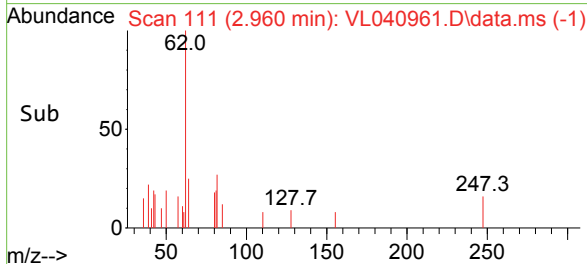
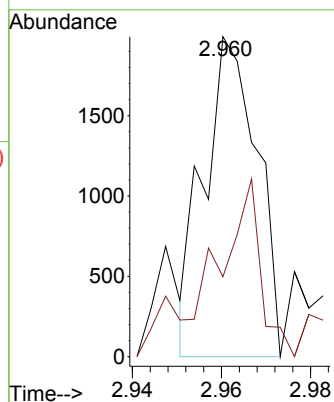
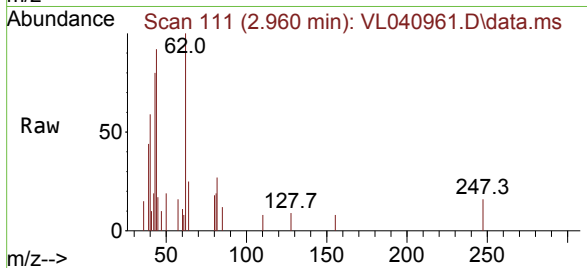




#5
 Vinyl Chloride
 Concen: 0.031 ppbv
 RT: 2.960 min Scan# 111
 Delta R.T. 0.003 min
 Lab File: VL040961.D
 Acq: 22 Dec 2023 16:56

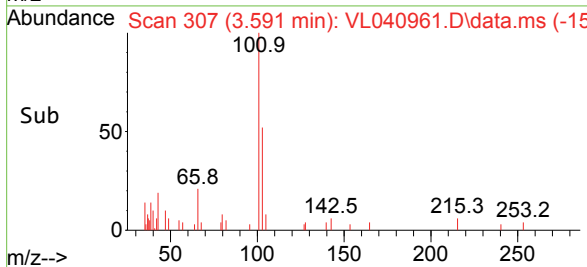
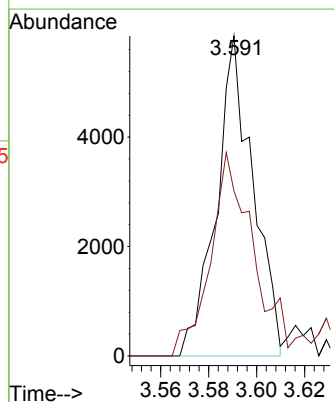
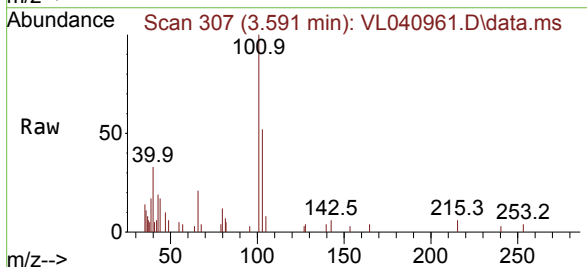
Instrument :
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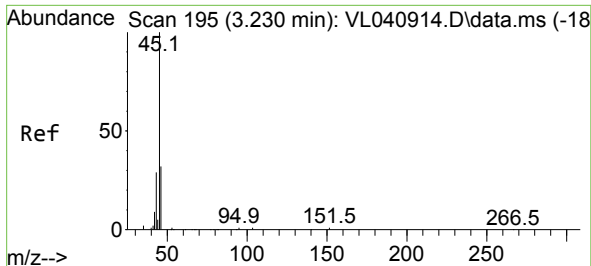
Tgt Ion: 62 Resp: 1646
 Ion Ratio Lower Upper
 62 100
 64 15.8 24.9 37.3#



#11
 Trichlorofluoromethane
 Concen: 0.042 ppbv
 RT: 3.591 min Scan# 307
 Delta R.T. 0.003 min
 Lab File: VL040961.D
 Acq: 22 Dec 2023 16:56

Tgt Ion: 101 Resp: 6198
 Ion Ratio Lower Upper
 101 100
 103 43.6 51.9 77.9#

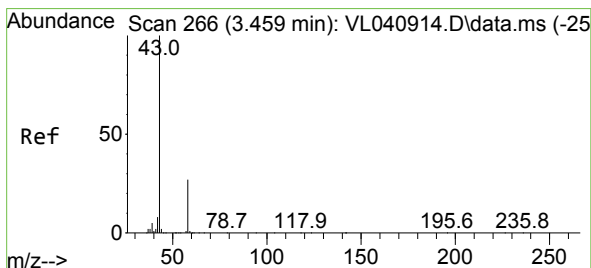
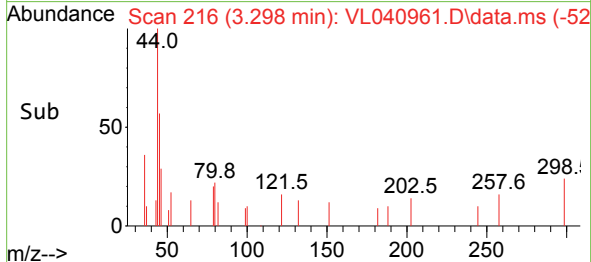
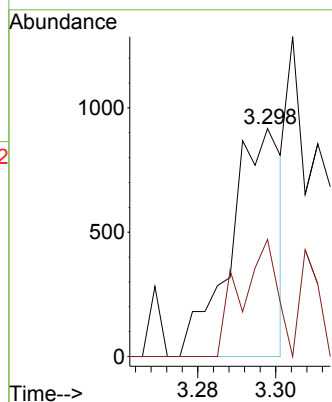
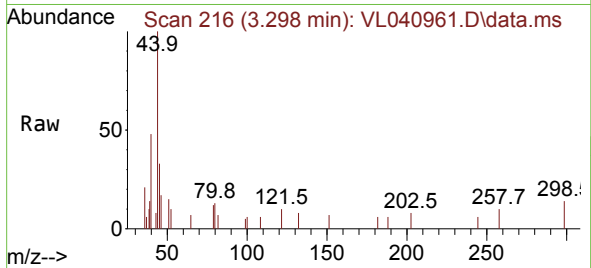




#13
Ethanol
Concen: 0.067 ppbv
RT: 3.298 min Scan# 216
Delta R.T. 0.029 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

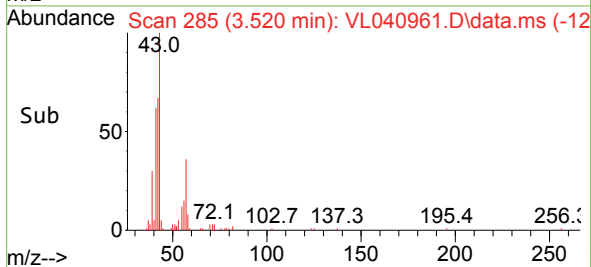
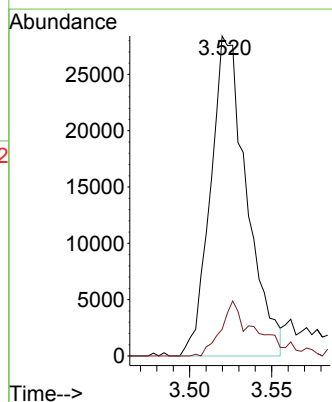
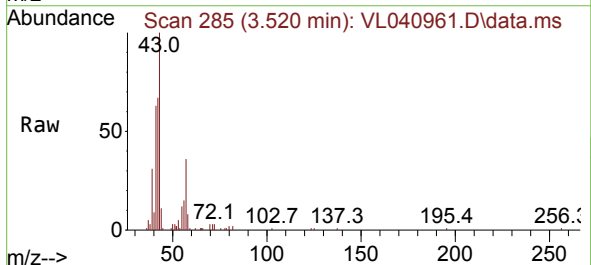
Instrument :
MSVOA_L
ClientSampleId :

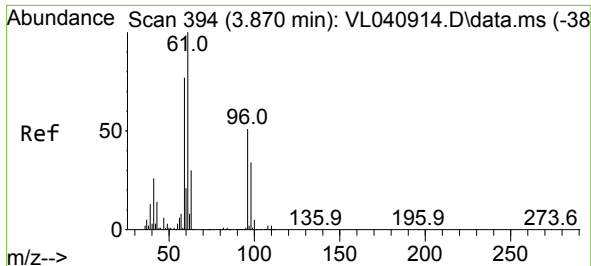
Tgt Ion: 45 Resp: 835
Ion Ratio Lower Upper
45 100
46 58.9 15.0 60.0



#15
Acetone
Concen: 0.362 ppbv
RT: 3.520 min Scan# 285
Delta R.T. 0.026 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

Tgt Ion: 43 Resp: 43454
Ion Ratio Lower Upper
43 100
58 18.6 20.6 30.8#

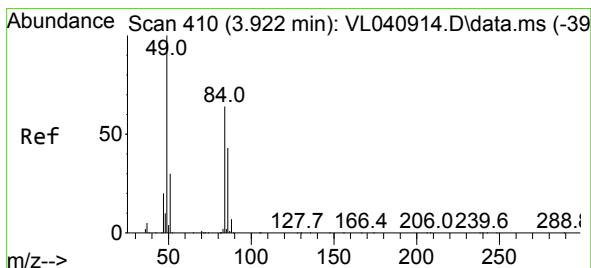
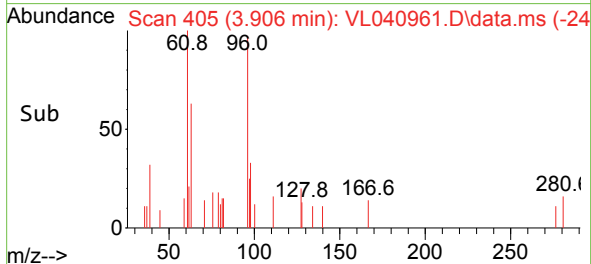
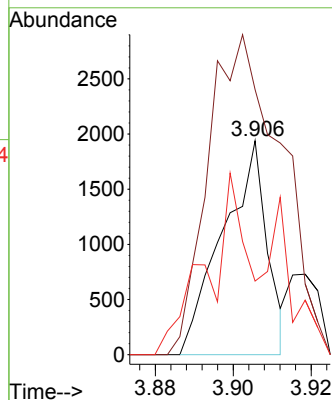
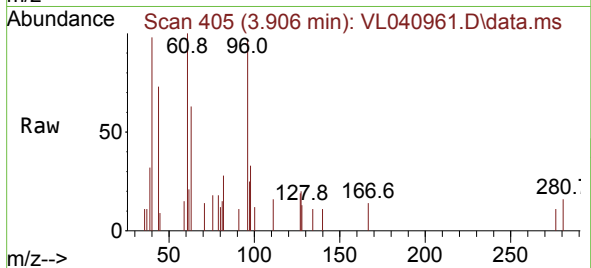




#18
1,1-Dichloroethene
Concen: 0.032 ppbv
RT: 3.906 min Scan# 405
Delta R.T. 0.006 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

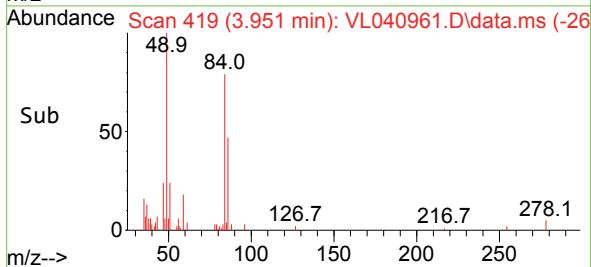
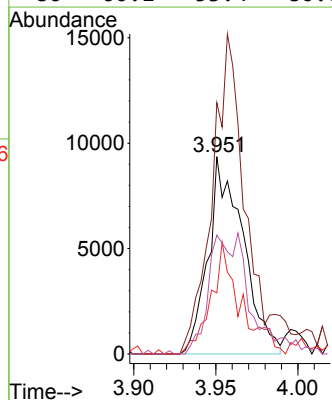
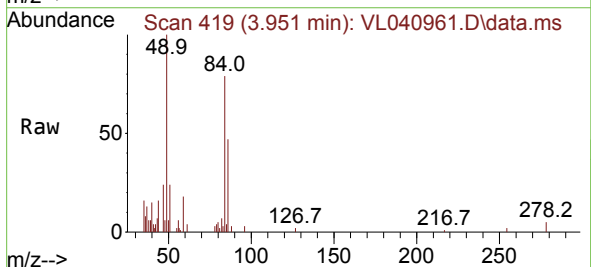
Instrument :
MSVOA_L
ClientSampleId :

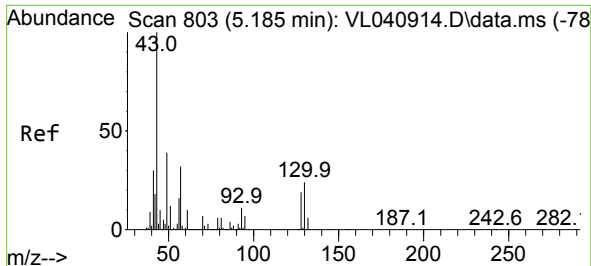
Tgt Ion: 96 Resp: 1534
Ion Ratio Lower Upper
96 100
61 115.5 156.6 235.0#
98 16.6 52.5 78.7#



#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 3.951 min Scan# 419
Delta R.T. -0.000 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

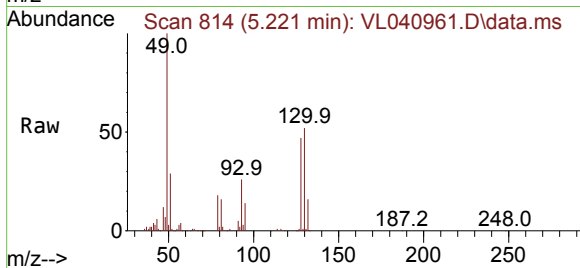
Tgt Ion: 84 Resp: 13772
Ion Ratio Lower Upper
84 100
49 127.3 124.6 187.0
51 31.0 37.2 55.8#
86 60.1 53.4 80.0



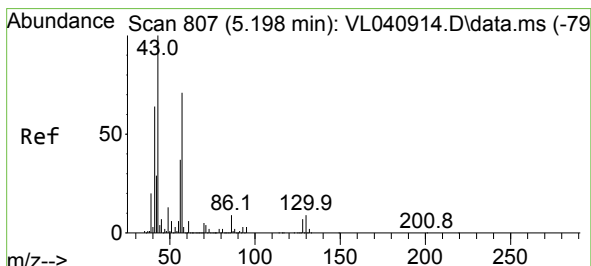
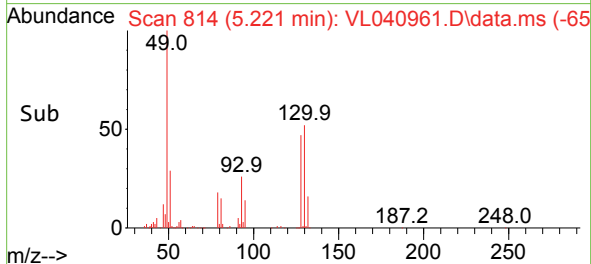
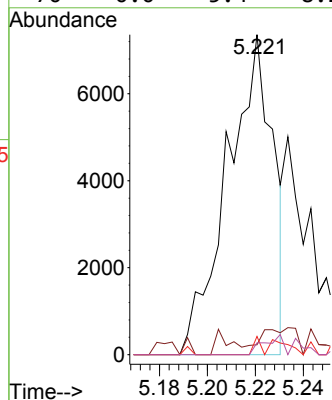


#25
Ethyl Acetate
Concen: 0.046 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.016 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

Instrument :
MSVOA_L
ClientSampleId :

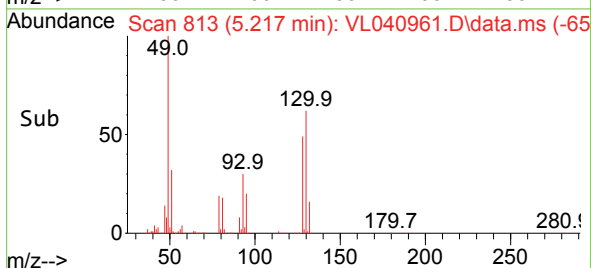
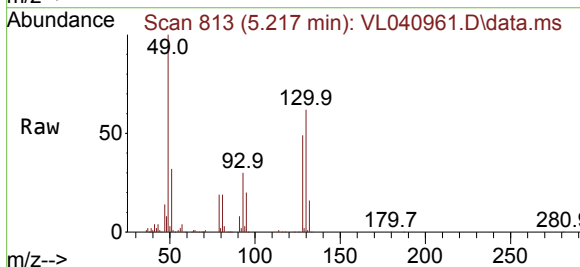
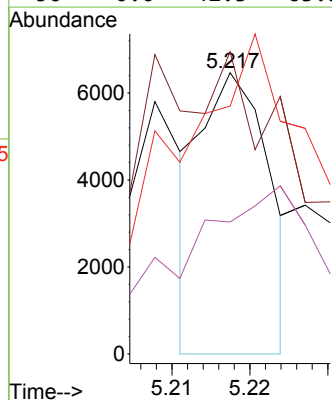


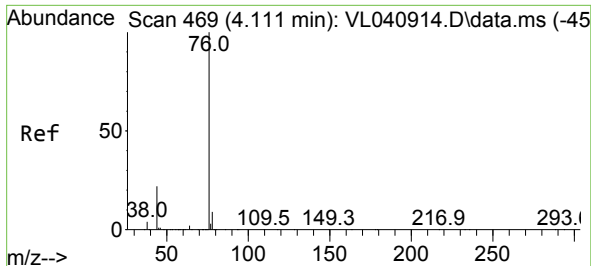
Tgt Ion: 43 Resp: 9679
Ion Ratio Lower Upper
43 100
45 1.7 8.2 12.2#
61 3.4 7.6 11.4#
70 0.0 5.4 8.2#



#26
Hexane
Concen: 0.043 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.003 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

Tgt Ion: 57 Resp: 3950
Ion Ratio Lower Upper
57 100
41 307.0 75.2 112.8#
43 0.0 188.0 282.0#
56 0.0 42.3 63.5#

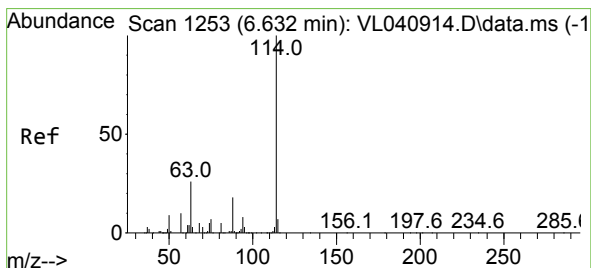
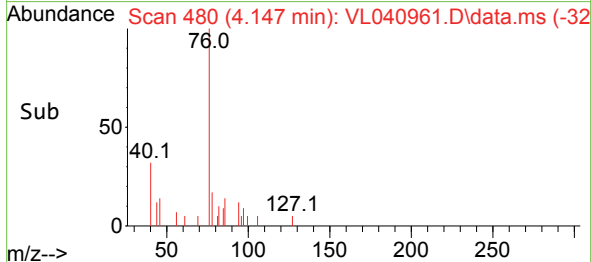
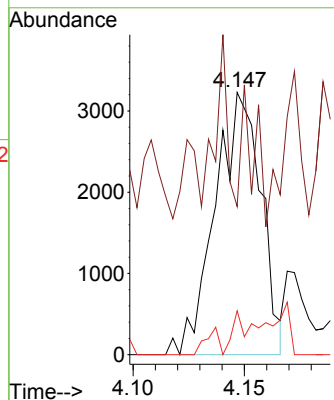
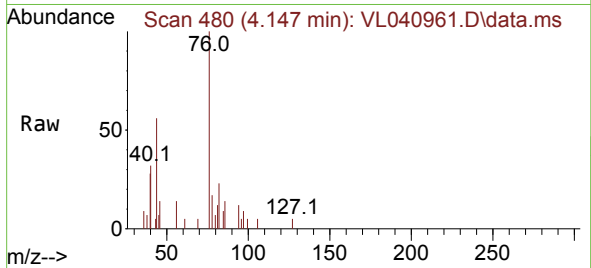




#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 4.147 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

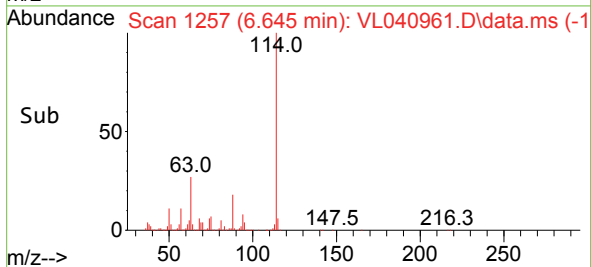
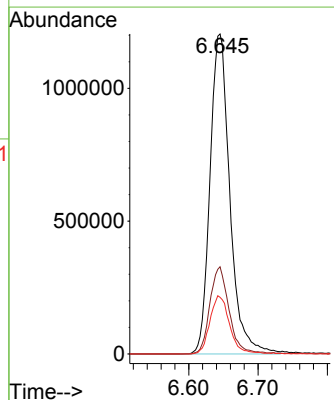
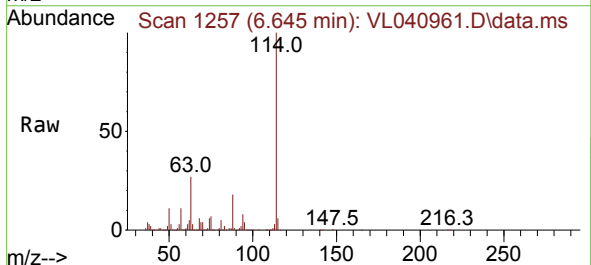
Instrument :
MSVOA_L
ClientSampleId :

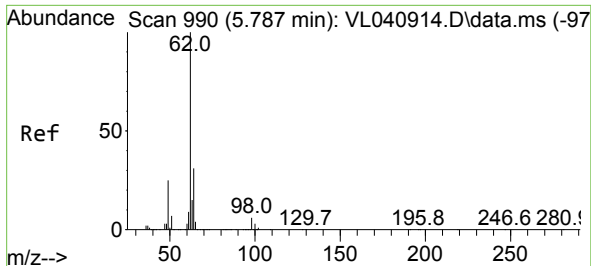
Tgt Ion: 76 Resp: 4585
Ion Ratio Lower Upper
76 100
44 81.1 18.4 27.6#
78 0.0 7.9 11.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. 0.003 min
Lab File: VL040961.D
Acq: 22 Dec 2023 16:56

Tgt Ion: 114 Resp: 2394506
Ion Ratio Lower Upper
114 100
63 26.8 21.0 31.6
88 18.2 14.3 21.5





#37

1,2-Dichloroethane

Concen: 0.032 ppbv

RT: 5.806 min Scan# 990

Delta R.T. 0.003 min

Lab File: VL040961.D

Acq: 22 Dec 2023 16:56

Instrument :

MSVOA_L

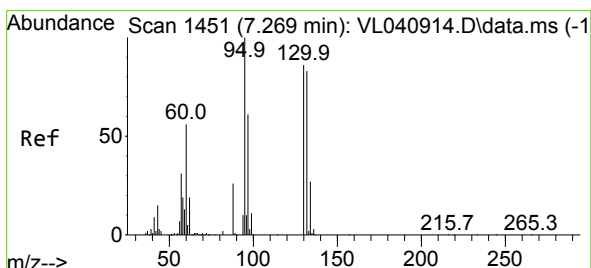
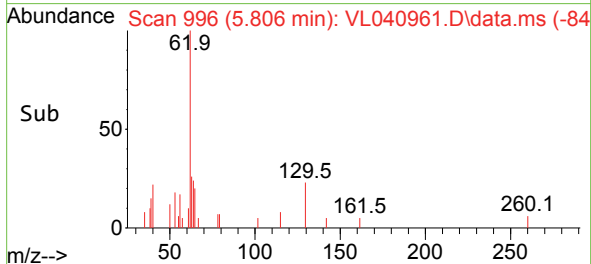
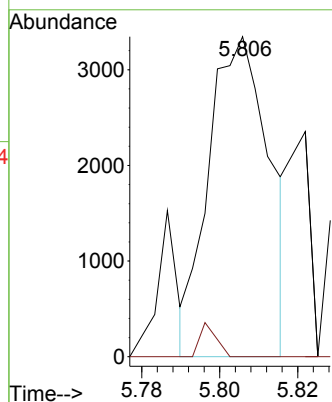
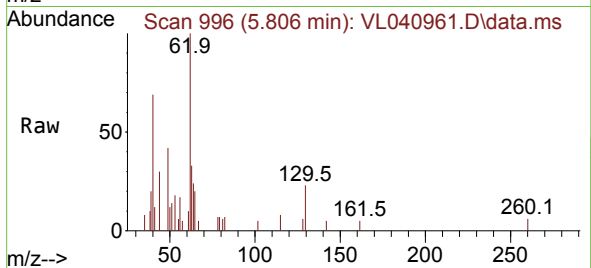
ClientSampleId :

Tgt Ion: 62 Resp: 3587

Ion Ratio Lower Upper

62 100

98 0.0 4.6 7.0#



#38

Trichloroethene

Concen: 0.061 ppbv

RT: 7.272 min Scan# 1452

Delta R.T. -0.007 min

Lab File: VL040961.D

Acq: 22 Dec 2023 16:56

Tgt Ion:130 Resp: 4276

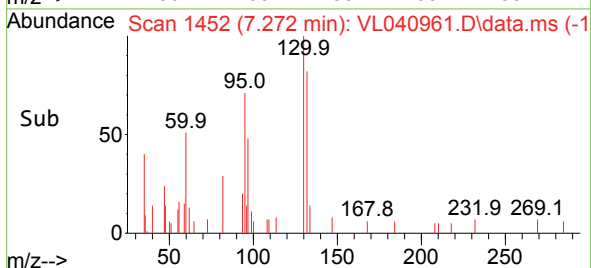
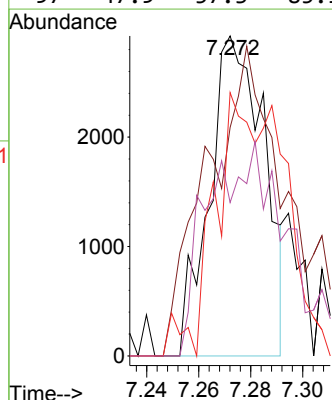
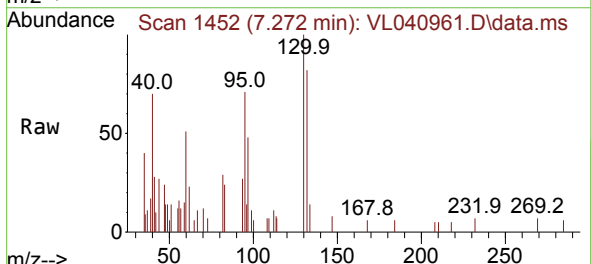
Ion Ratio Lower Upper

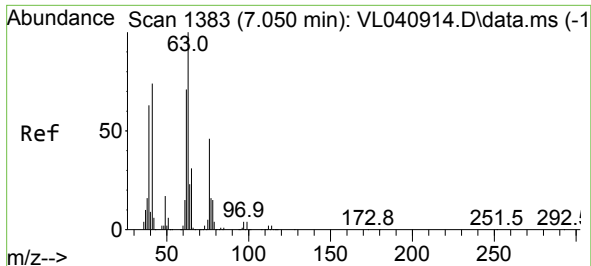
130 100

95 39.1 93.5 140.3#

132 75.7 77.4 116.2#

97 47.9 57.3 85.9#





#39

1,2-Dichloropropane

Concen: 8.564 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.415 min

Lab File: VL040961.D

Acq: 22 Dec 2023 16:56

Instrument :

MSVOA_L

ClientSampleId :

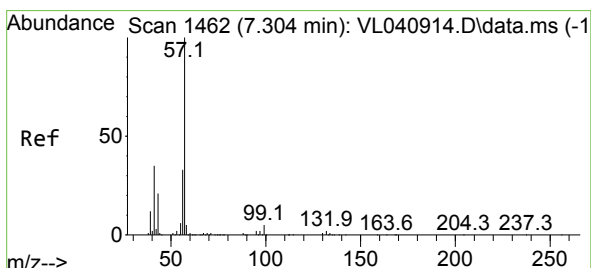
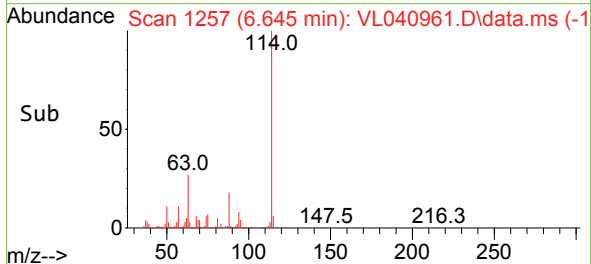
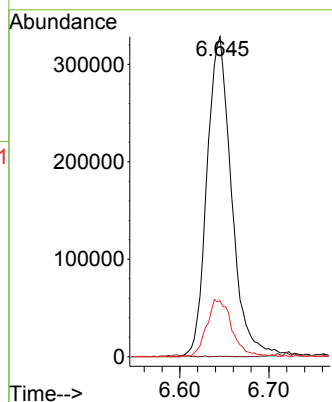
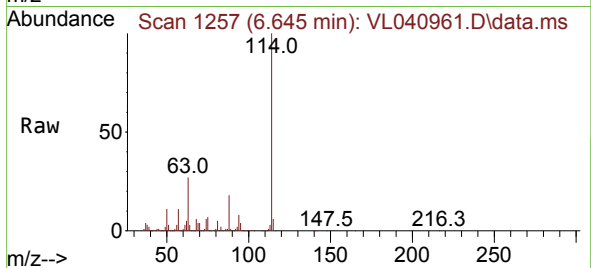
Tgt Ion: 63 Resp: 629977

Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 17.4 56.6 85.0#



#44

2,2,4-Trimethylpentane

Concen: 0.046 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VL040961.D

Acq: 22 Dec 2023 16:56

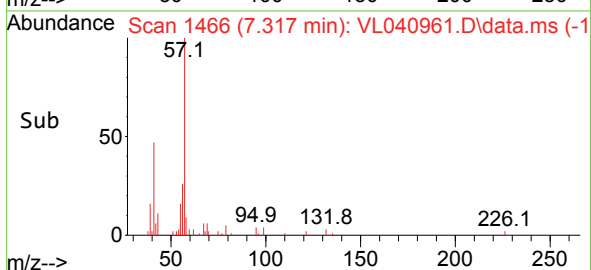
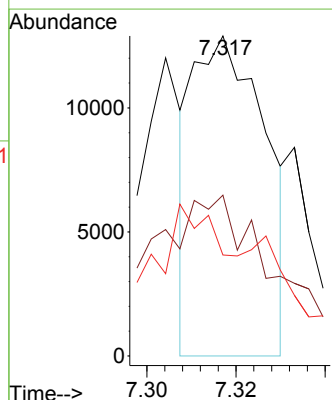
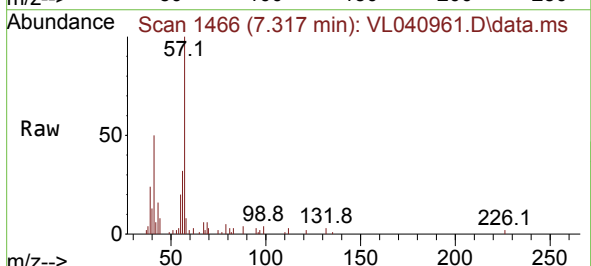
Tgt Ion: 57 Resp: 14549

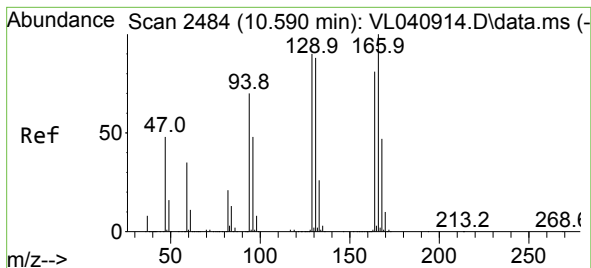
Ion Ratio Lower Upper

57 100

41 110.7 28.2 42.4#

56 0.0 25.3 37.9#





#52

Tetrachloroethene

Concen: 0.418 ppbv

RT: 10.590 min Scan# 2484

Delta R.T. 0.003 min

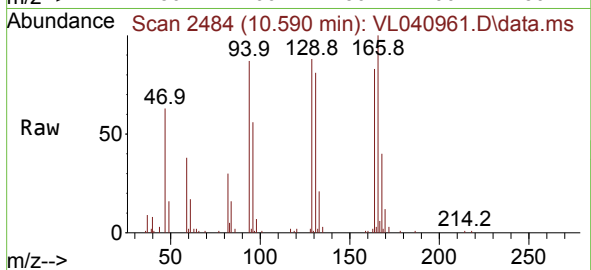
Lab File: VL040961.D

Acq: 22 Dec 2023 16:56

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 26347

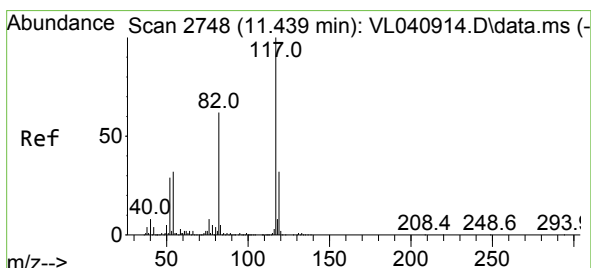
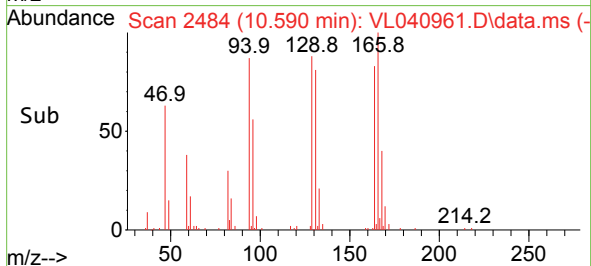
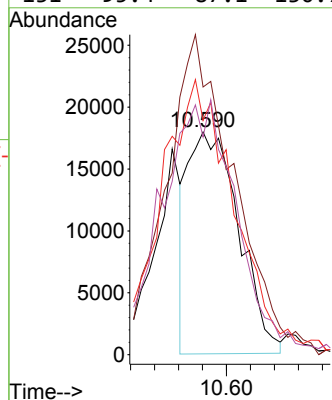
Ion Ratio Lower Upper

164 100

166 114.2 98.9 148.3

129 103.2 88.7 133.1

131 95.4 87.1 130.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.436 min Scan# 2747

Delta R.T. -0.000 min

Lab File: VL040961.D

Acq: 22 Dec 2023 16:56

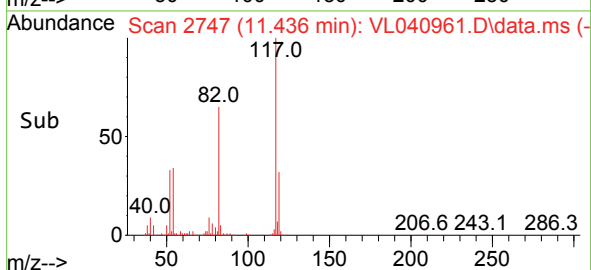
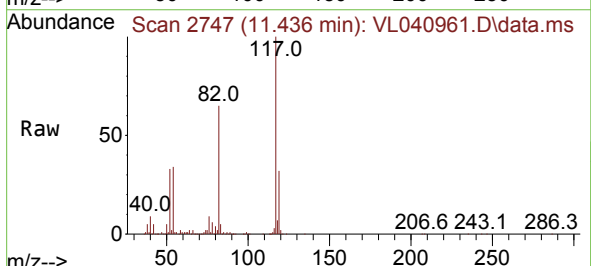
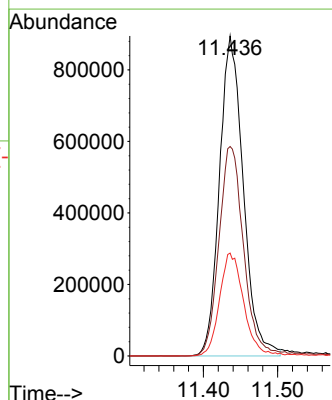
Tgt Ion:117 Resp: 1996874

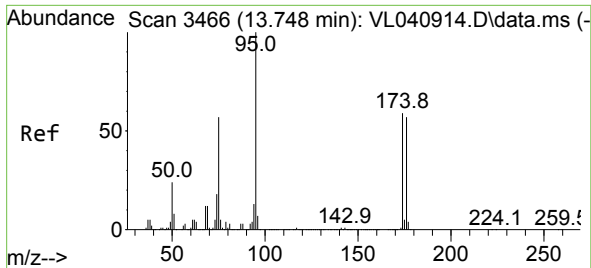
Ion Ratio Lower Upper

117 100

82 68.5 49.6 74.4

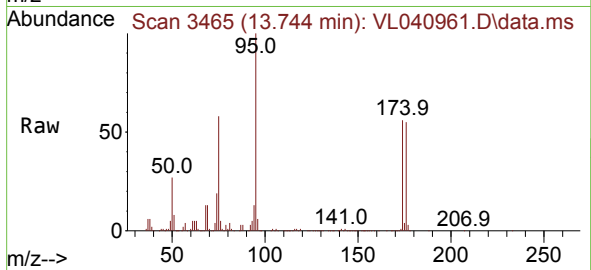
119 33.0 23.4 35.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.198 ppbv
 RT: 13.744 min Scan# 3465
 Delta R.T. 0.006 min
 Lab File: VL040961.D
 Acq: 22 Dec 2023 16:56

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 1499979

Ion	Ratio	Lower	Upper
95	100		
174	59.8	48.0	72.0
175	4.6	3.7	5.5

