

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042324\
 Data File : VL041161.D
 Acq On : 23 Apr 2024 15:16
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 24 02:53:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Apr 24 02:47:46 2024
 Response via : Initial Calibration

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

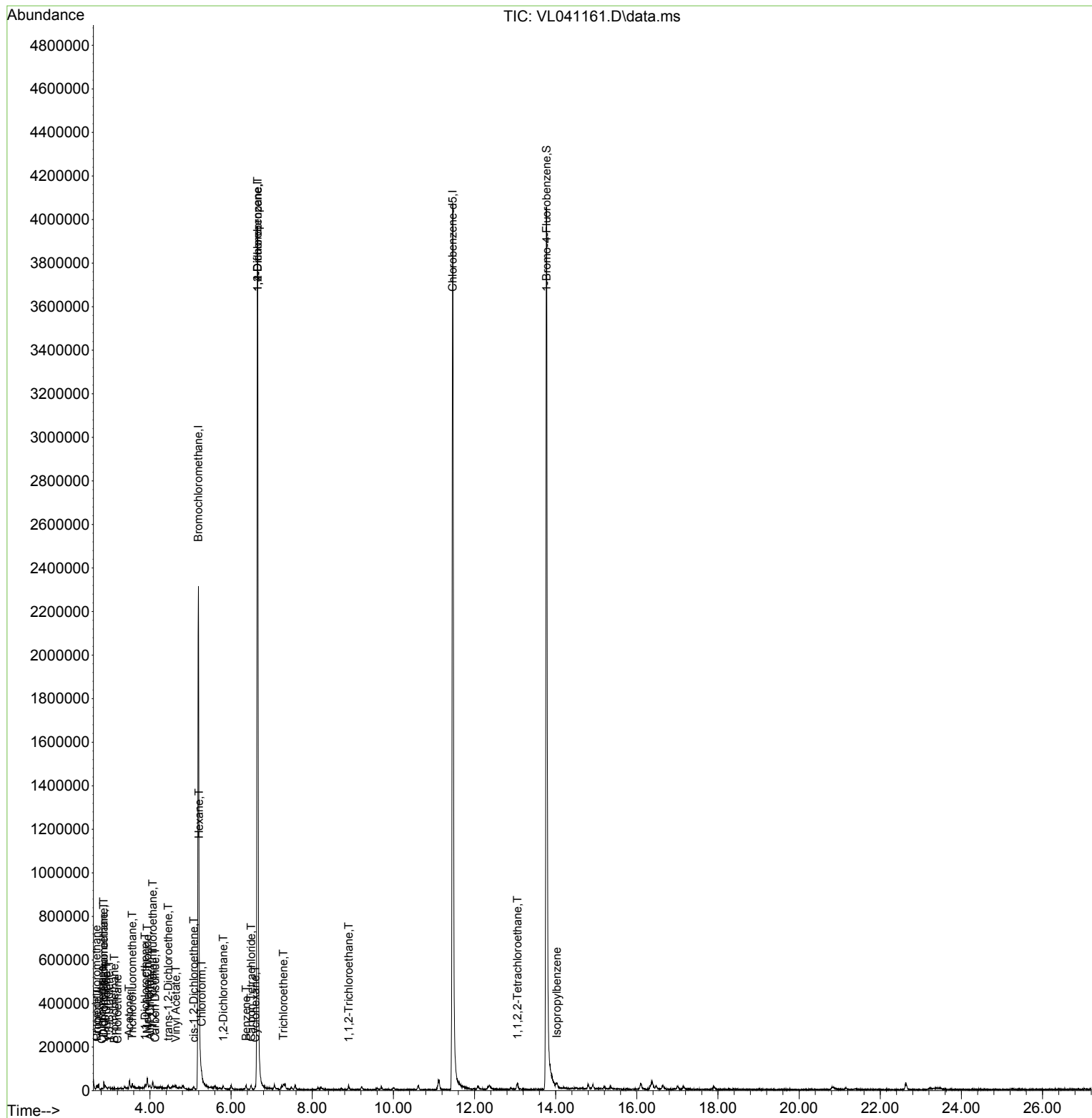
Internal Standards						
1) Bromochloromethane	5.195	49	1198098	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	3062317	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2666386	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2109059	9.837	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.861	85	9004	0.044	ppbv	90
3) Chlorodifluoromethane	2.681	51	12153	0.066	ppbv	95
4) Chloromethane	2.819	50	4963	0.071	ppbv #	87
5) Vinyl Chloride	2.931	62	4738	0.070	ppbv #	72
6) Bromomethane	3.124	94	1459	0.057	ppbv #	57
7) Chloroethane	3.201	64	939	0.038	ppbv #	72
8) Dichlorotetrafluoroethane	2.861	85	9004	0.052	ppbv #	65
9) Propene	2.700	41	4601	0.078	ppbv #	37
11) Trichlorofluoromethane	3.565	101	7575	0.041	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.073	101	4104	0.031	ppbv #	15
15) Acetone	3.491	43	35608	0.274	ppbv #	87
16) 1,3-Butadiene	2.992	39	4521	0.071	ppbv	91
18) 1,1-Dichloroethene	3.883	96	2984	0.052	ppbv #	79
20) Methylene Chloride	3.935	84	13838	0.259	ppbv #	85
21) Allyl Chloride	3.999	41	3124	0.040	ppbv #	18
22) trans-1,2-Dichloroethene	4.452	96	2517	0.042	ppbv #	84
23) Vinyl Acetate	4.642	43	9364	0.071	ppbv #	91
26) Hexane	5.211	57	6494	0.059	ppbv #	1
27) Carbon Disulfide	4.131	76	5430	0.041	ppbv #	1
29) Chloroform	5.275	83	13671	0.074	ppbv #	77
30) Cyclohexane	6.600	84	2967	0.033	ppbv #	1
31) cis-1,2-Dichloroethene	5.082	61	3424	0.033	ppbv #	45
35) Carbon Tetrachloride	6.494	117	8978	0.051	ppbv #	72
36) Benzene	6.372	78	7802	0.035	ppbv #	61
37) 1,2-Dichloroethane	5.806	62	7747	0.057	ppbv #	83
38) Trichloroethene	7.288	130	3824	0.047	ppbv #	66
39) 1,2-Dichloropropane	6.651	63	758327	8.552	ppbv #	24
47) 1,1,2-Trichloroethane	8.896	97	4759	0.050	ppbv #	74
62) Isopropylbenzene	14.027	105	14443	0.039	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.056	83	6009	0.031	ppbv #	26

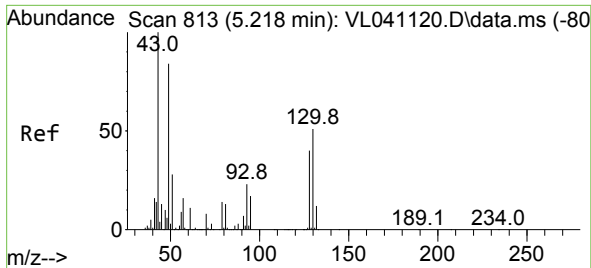
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042324\
Data File : VL041161.D
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Sample : VIBLK
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

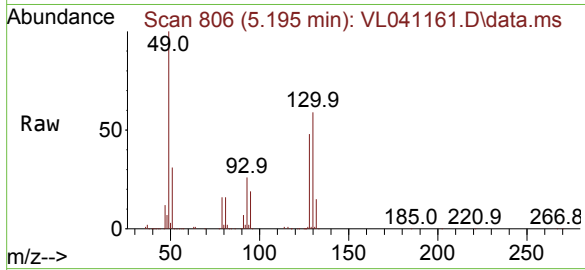
Quant Time: Apr 24 02:53:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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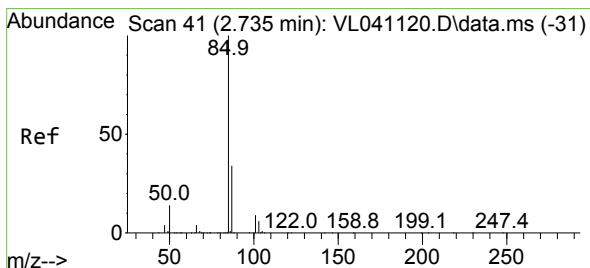
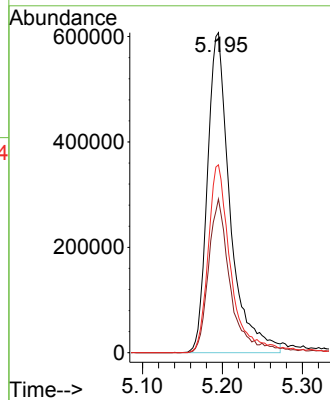
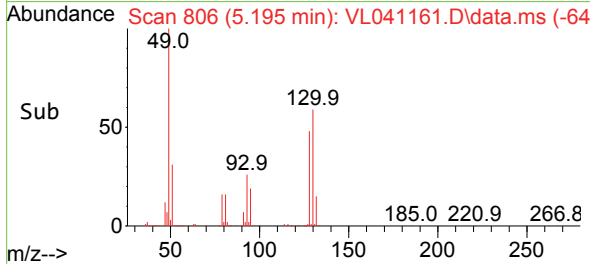


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VL041161.D
 Acq: 23 Apr 2024 15:16

Instrument :
 MSVOA_L
 ClientSampleId :

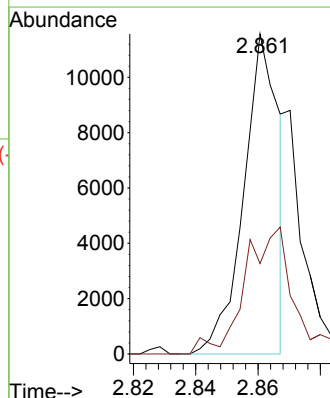
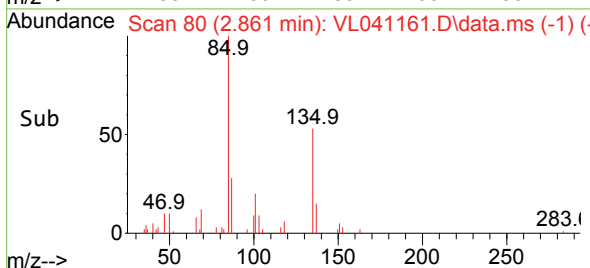
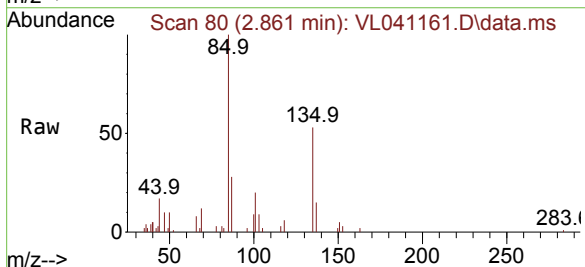


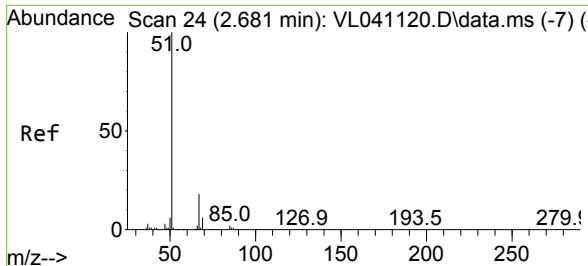
Tgt Ion: 49 Resp: 1198098
 Ion Ratio Lower Upper
 49 100
 128 47.9 23.6 71.0
 130 59.7 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.044 ppbv
 RT: 2.861 min Scan# 80
 Delta R.T. 0.125 min
 Lab File: VL041161.D
 Acq: 23 Apr 2024 15:16

Tgt Ion: 85 Resp: 9004
 Ion Ratio Lower Upper
 85 100
 87 28.3 27.0 40.6

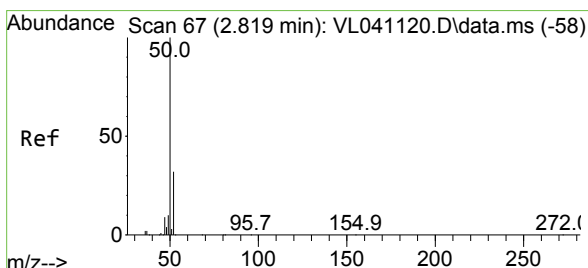
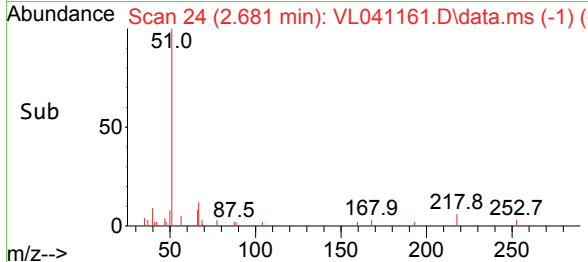
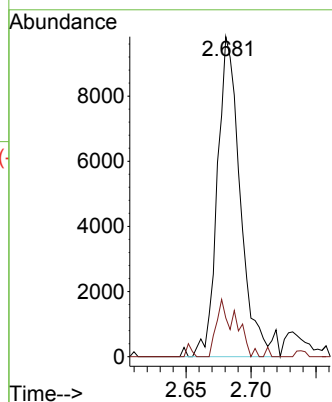
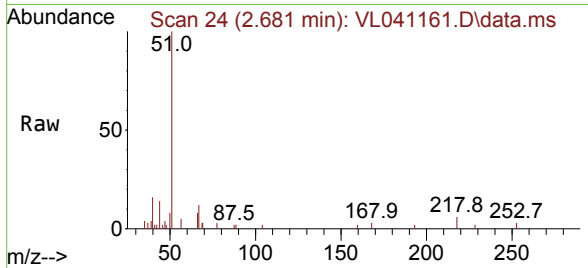




#3
Chlorodifluoromethane
Concen: 0.066 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.000 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

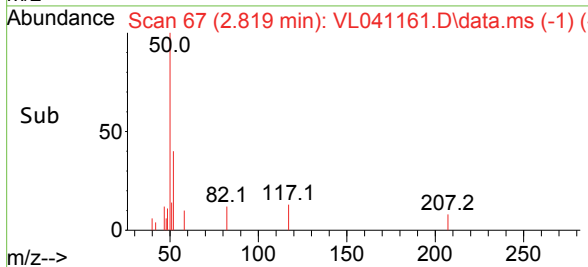
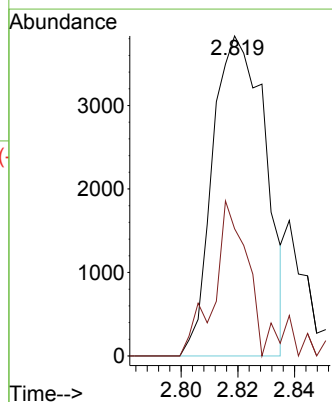
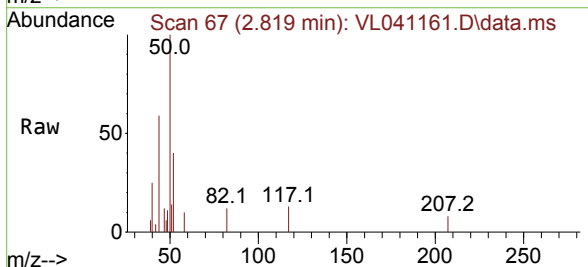
Instrument :
MSVOA_L
ClientSampleId :

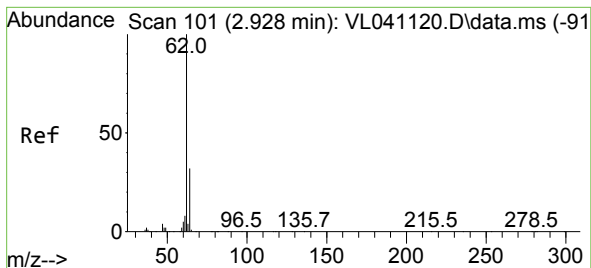
Tgt Ion: 51 Resp: 12153
Ion Ratio Lower Upper
51 100
67 16.3 14.9 22.3



#4
Chloromethane
Concen: 0.071 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.000 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

Tgt Ion: 50 Resp: 4963
Ion Ratio Lower Upper
50 100
52 39.8 26.0 39.0#





#5

Vinyl Chloride

Concen: 0.070 ppbv

RT: 2.931 min Scan# 101

Delta R.T. 0.006 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Instrument :

MSVOA_L

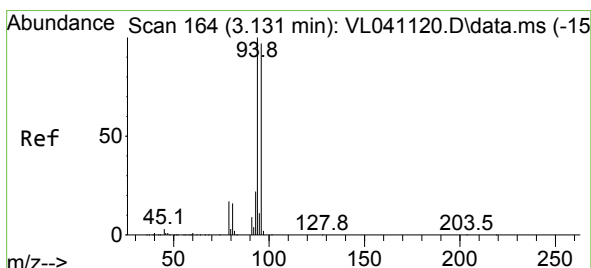
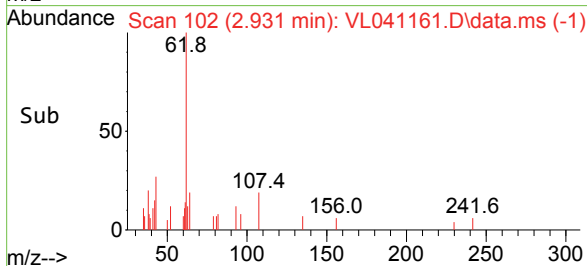
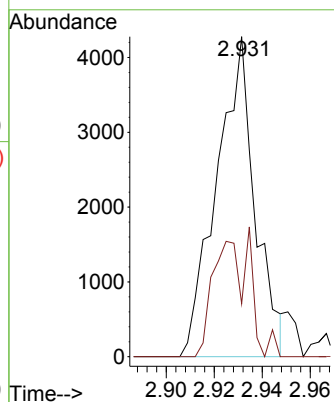
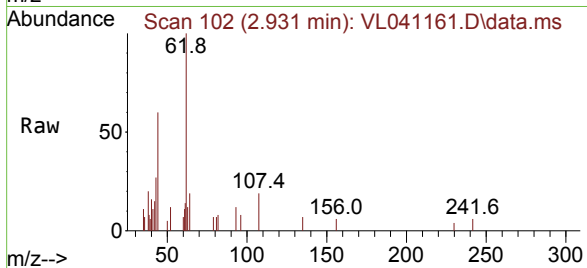
ClientSampleId :

Tgt Ion: 62 Resp: 4738

Ion Ratio Lower Upper

62 100

64 16.5 25.6 38.4#



#6

Bromomethane

Concen: 0.057 ppbv

RT: 3.124 min Scan# 162

Delta R.T. 0.003 min

Lab File: VL041161.D

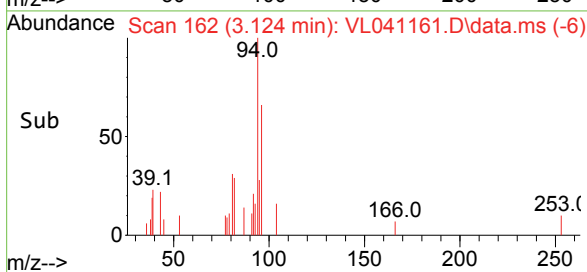
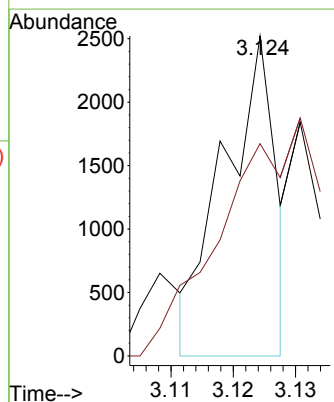
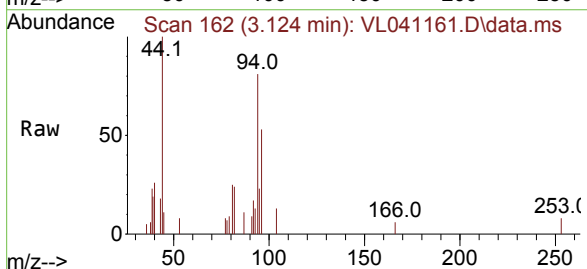
Acq: 23 Apr 2024 15:16

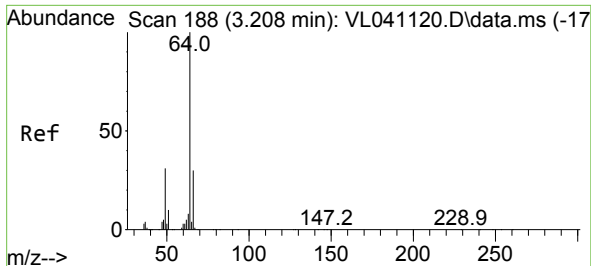
Tgt Ion: 94 Resp: 1459

Ion Ratio Lower Upper

94 100

96 55.1 77.9 116.9#

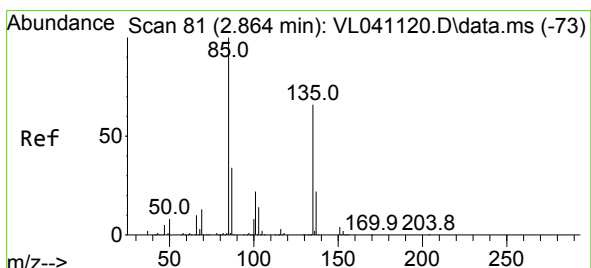
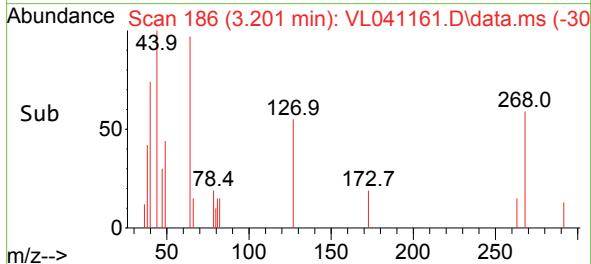
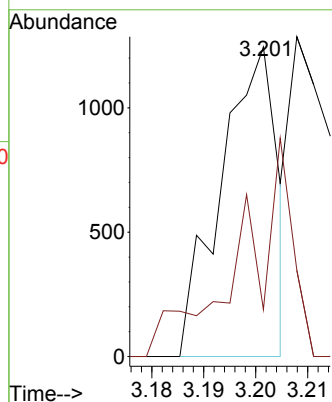
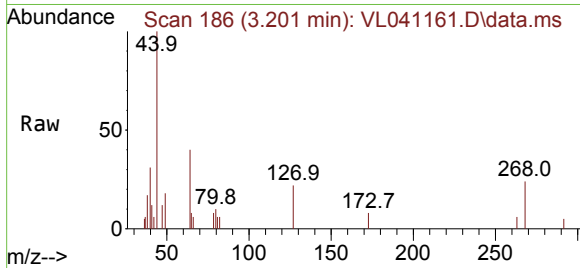




#7
Chloroethane
Concen: 0.038 ppbv
RT: 3.201 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

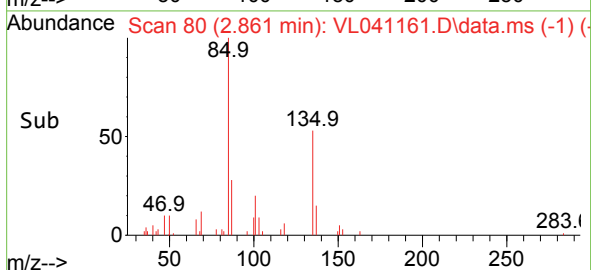
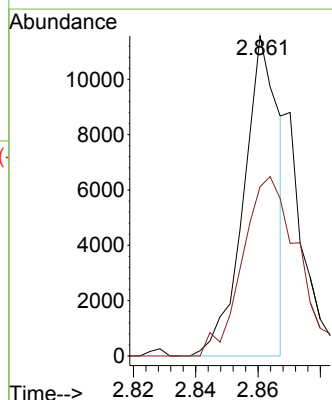
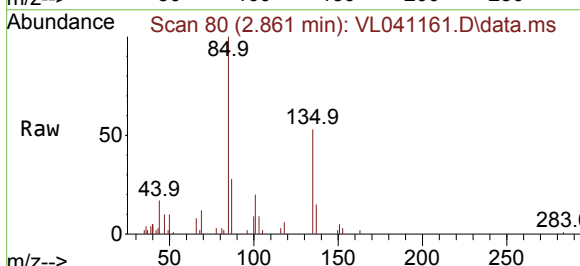
Instrument :
MSVOA_L
ClientSampleId :

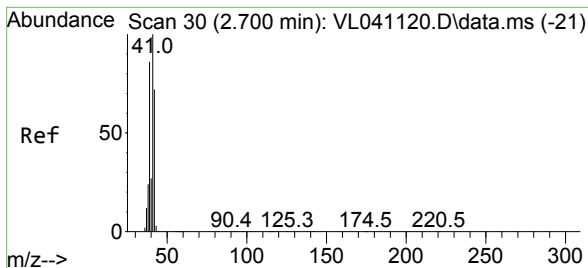
Tgt Ion: 64 Resp: 939
Ion Ratio Lower Upper
64 100
66 15.2 24.2 36.4#



#8
Dichlorotetrafluoroethane
Concen: 0.052 ppbv
RT: 2.861 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

Tgt Ion: 85 Resp: 9004
Ion Ratio Lower Upper
85 100
135 96.3 54.2 81.2#





#9

Propene

Concen: 0.078 ppbv

RT: 2.700 min Scan# 30

Delta R.T. -0.000 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Instrument :

MSVOA_L

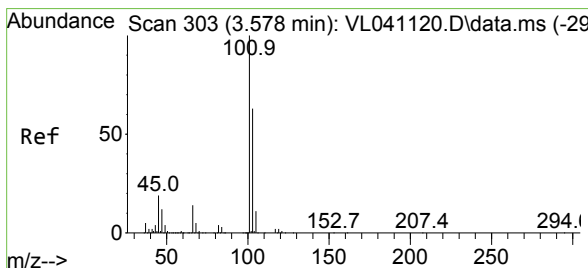
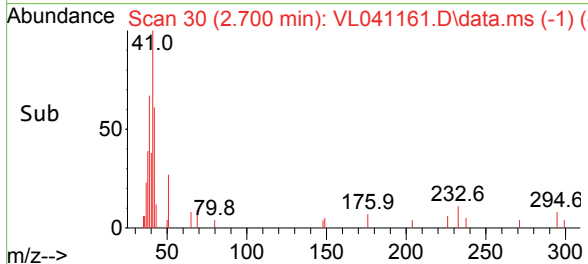
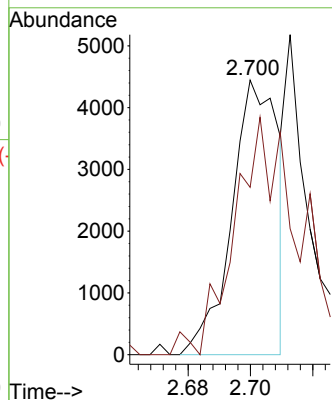
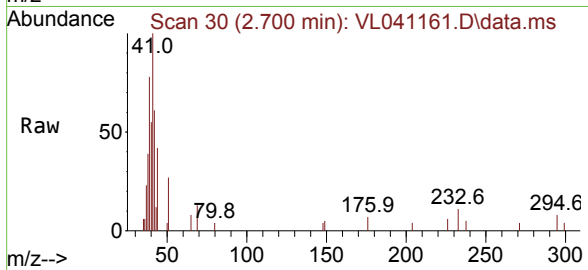
ClientSampleId :

Tgt Ion: 41 Resp: 4601

Ion Ratio Lower Upper

41 100

42 128.5 60.1 90.1#



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.003 min

Lab File: VL041161.D

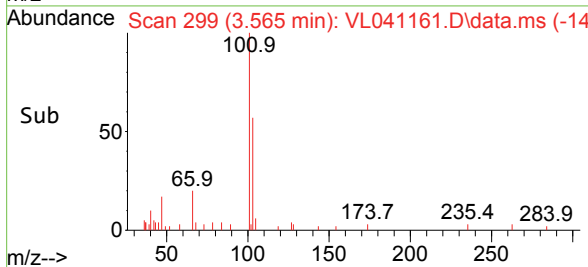
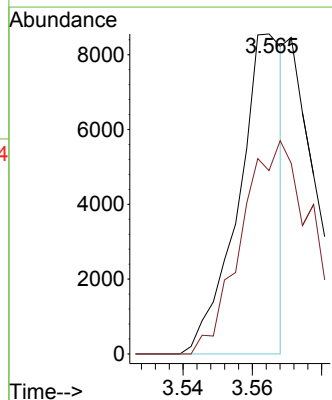
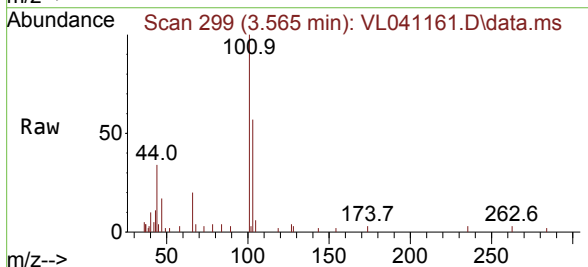
Acq: 23 Apr 2024 15:16

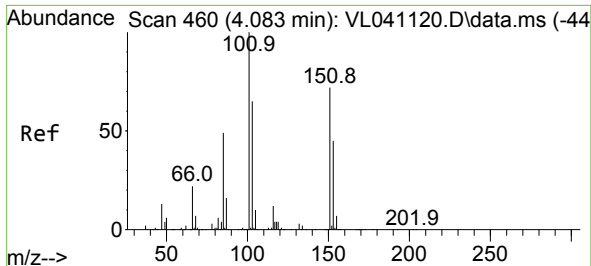
Tgt Ion: 101 Resp: 7575

Ion Ratio Lower Upper

101 100

103 57.3 50.6 75.8

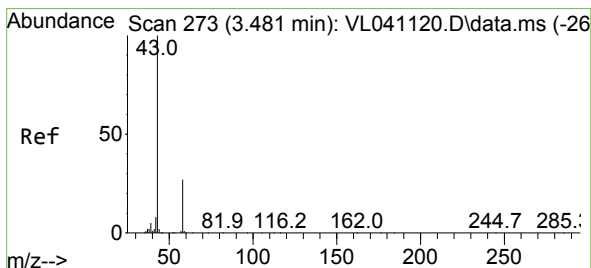
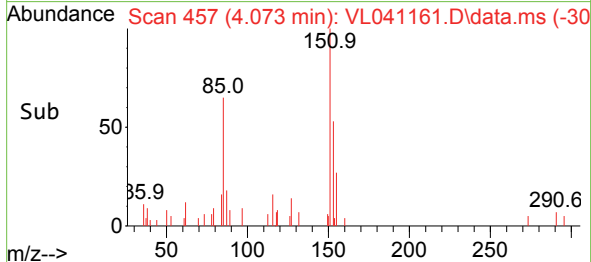
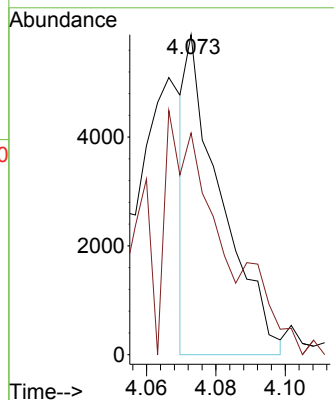
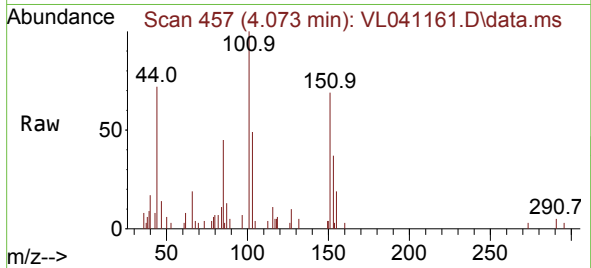




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.031 ppbv
RT: 4.073 min Scan# 4104
Delta R.T. 0.006 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

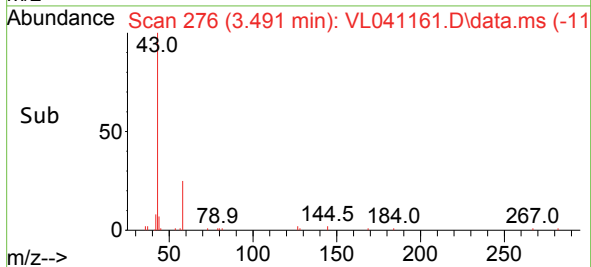
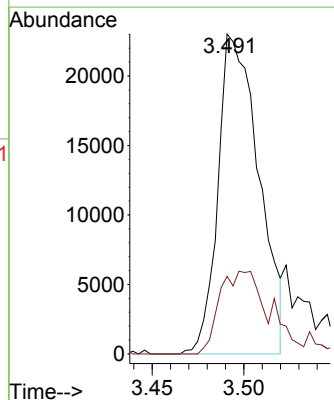
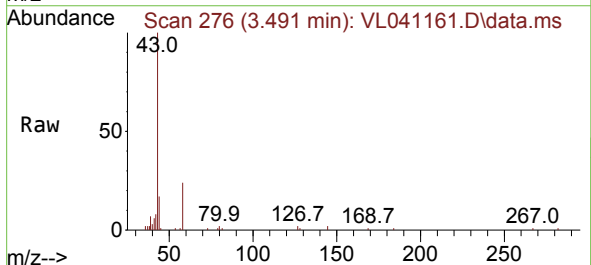
Instrument :
MSVOA_L
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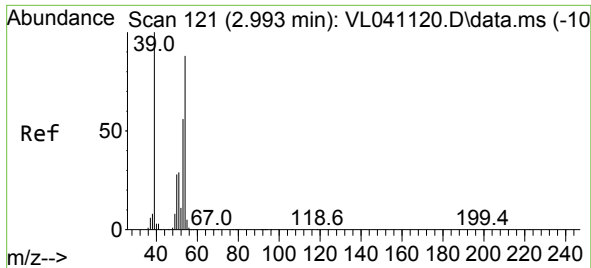
Tgt Ion:101 Resp: 4104
Ion Ratio Lower Upper
101 100
151 0.0 56.2 84.4#



#15
Acetone
Concen: 0.274 ppbv
RT: 3.491 min Scan# 276
Delta R.T. 0.022 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

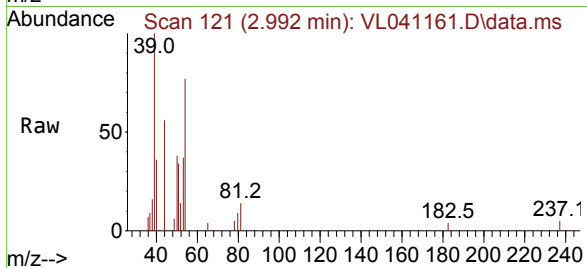
Tgt Ion: 43 Resp: 35608
Ion Ratio Lower Upper
43 100
58 33.1 21.1 31.7#



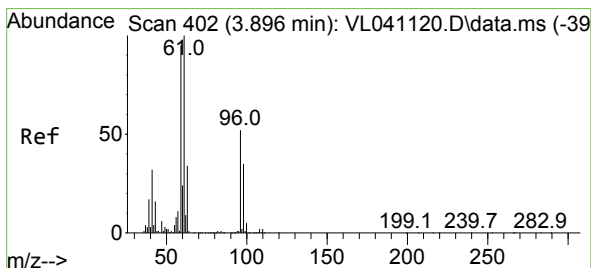
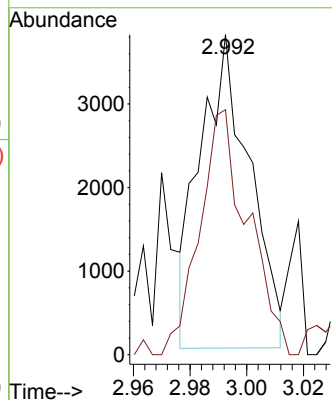
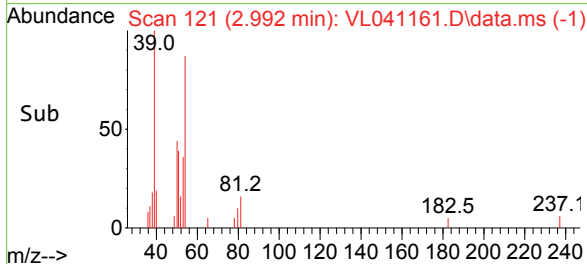


#16
1,3-Butadiene
Concen: 0.071 ppbv
RT: 2.992 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

Instrument :
MSVOA_L
ClientSampleId :

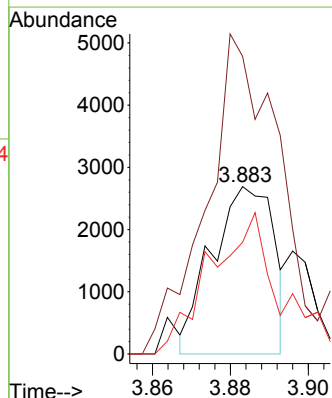
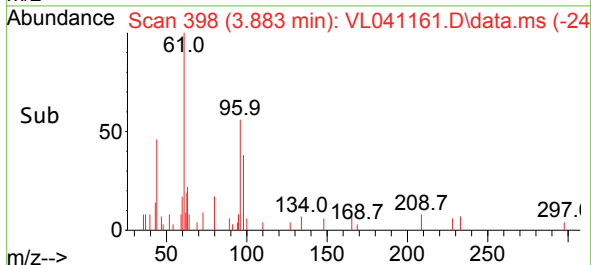
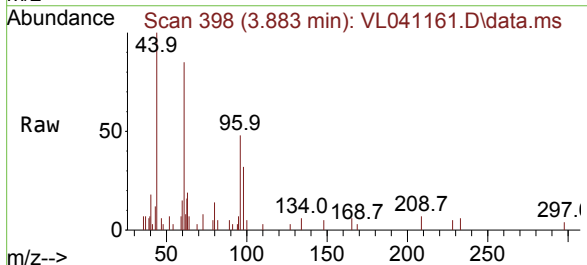


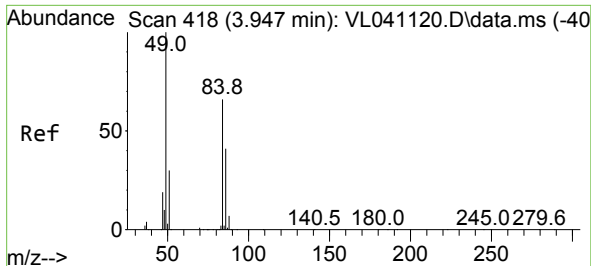
Tgt Ion: 39 Resp: 4521
Ion Ratio Lower Upper
39 100
54 87.0 63.5 95.3



#18
1,1-Dichloroethene
Concen: 0.052 ppbv
RT: 3.883 min Scan# 398
Delta R.T. 0.003 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

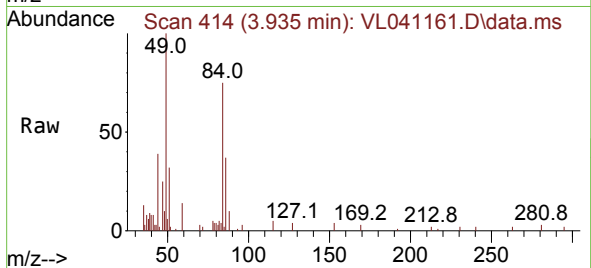
Tgt Ion: 96 Resp: 2984
Ion Ratio Lower Upper
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61 160.5 152.6 228.8
98 49.2 54.0 81.0#



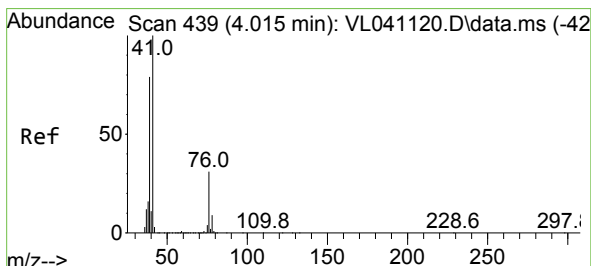
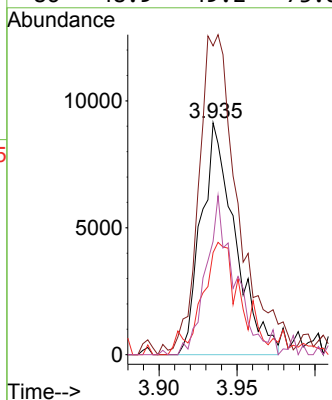
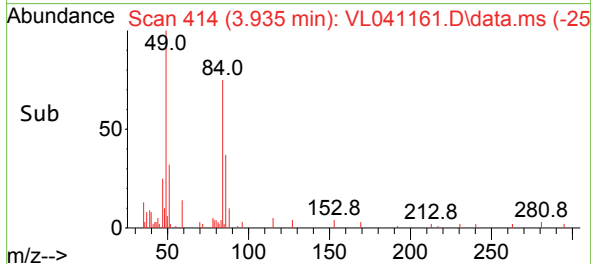


#20
Methylene Chloride
Concen: 0.259 ppbv
RT: 3.935 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

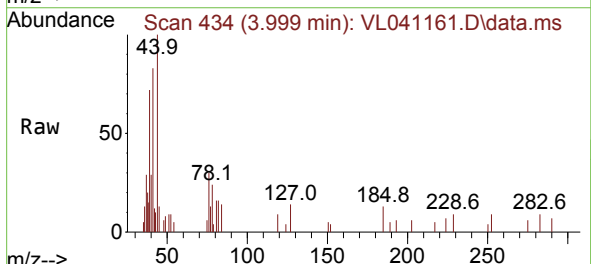
Instrument :
MSVOA_L
ClientSampleId :



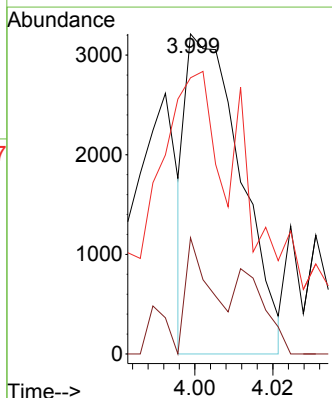
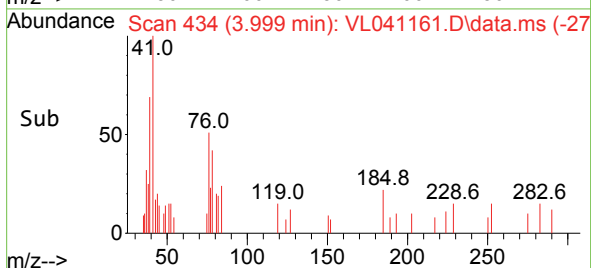
Tgt Ion: 84 Resp: 13838
Ion Ratio Lower Upper
84 100
49 131.6 120.7 181.1
51 38.7 36.6 54.8
86 48.9 49.2 73.8#

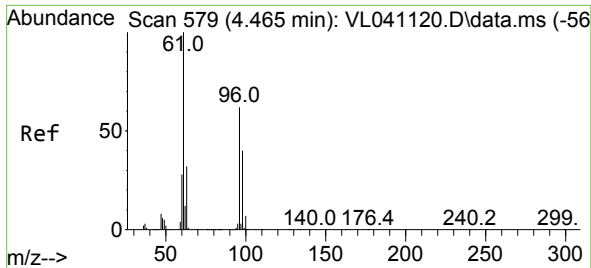


#21
Allyl Chloride
Concen: 0.040 ppbv
RT: 3.999 min Scan# 434
Delta R.T. 0.003 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16



Tgt Ion: 41 Resp: 3124
Ion Ratio Lower Upper
41 100
76 37.6 25.7 38.5
39 180.8 65.7 98.5#

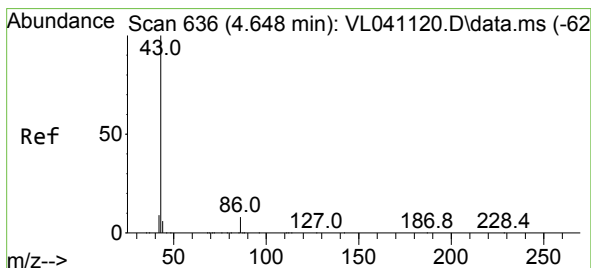
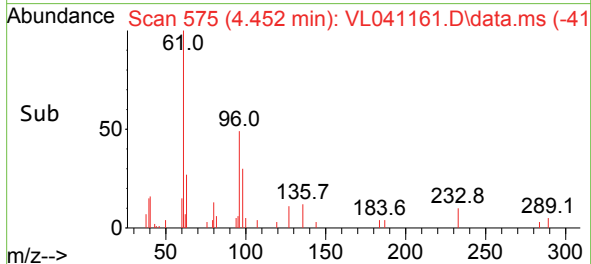
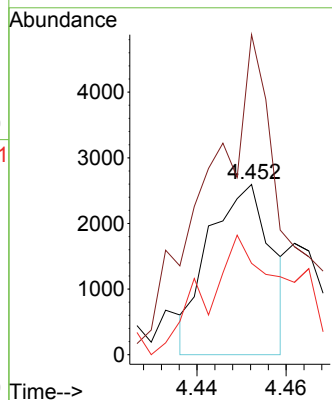
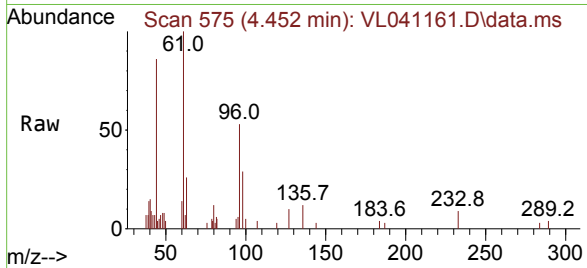




#22
trans-1,2-Dichloroethene
Concen: 0.042 ppbv
RT: 4.452 min Scan# 51
Delta R.T. 0.009 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

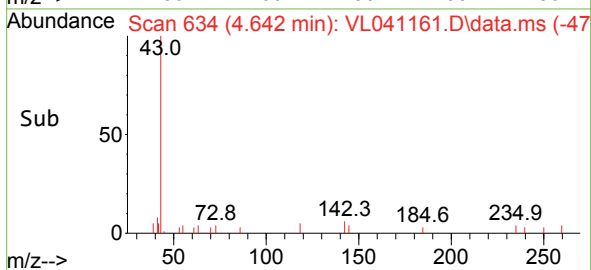
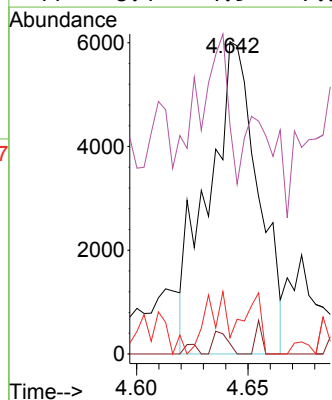
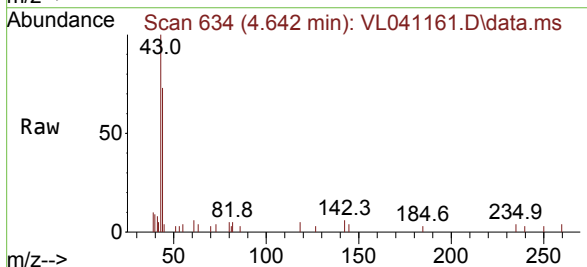
Instrument :
MSVOA_L
ClientSampleId :

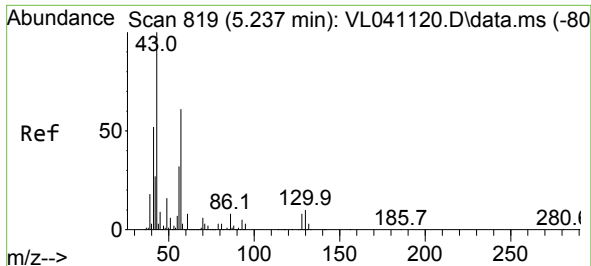
Tgt Ion: 96 Resp: 2517
Ion Ratio Lower Upper
96 100
61 177.1 128.4 192.6
98 44.5 51.5 77.3#



#23
Vinyl Acetate
Concen: 0.071 ppbv
RT: 4.642 min Scan# 634
Delta R.T. 0.019 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

Tgt Ion: 43 Resp: 9364
Ion Ratio Lower Upper
43 100
86 4.0 6.2 9.4#
42 6.3 7.7 11.5#
44 8.4 4.9 7.3#

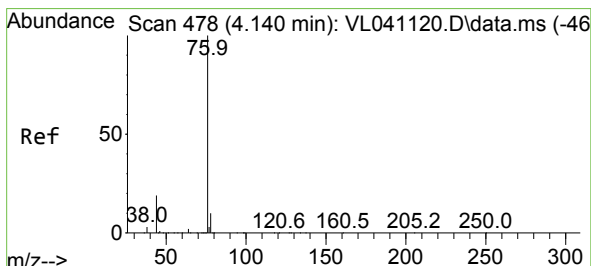
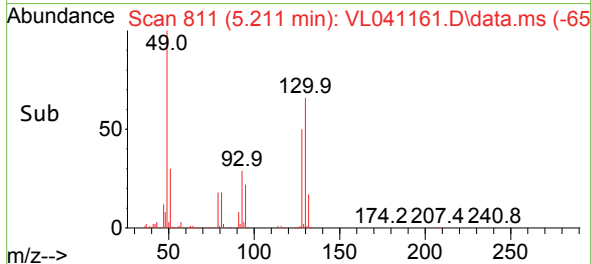
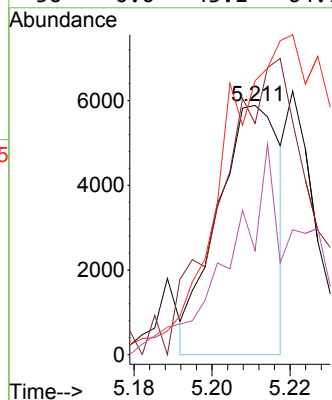
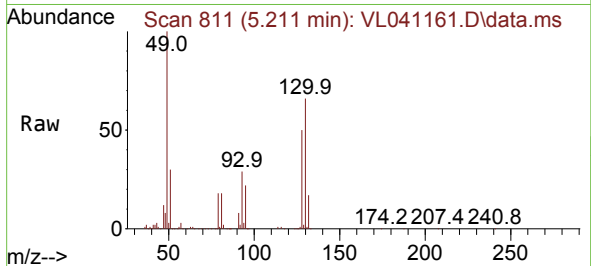




#26
Hexane
Concen: 0.059 ppbv
RT: 5.211 min Scan# 819
Delta R.T. 0.003 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

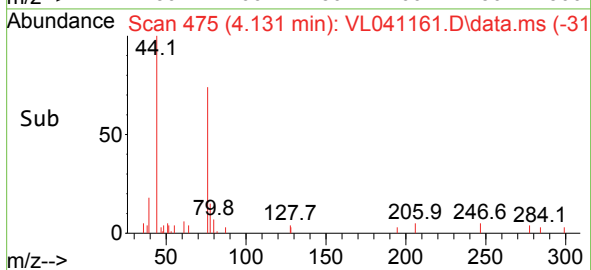
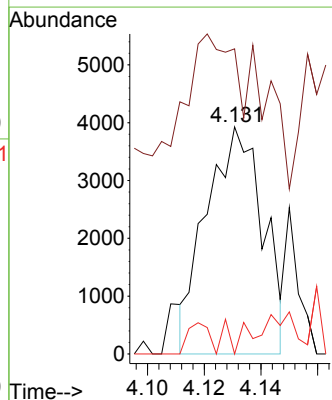
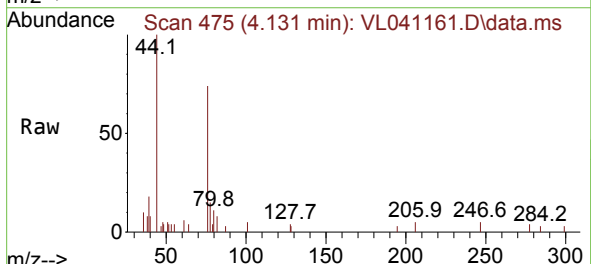
Instrument :
MSVOA_L
ClientSampleId :

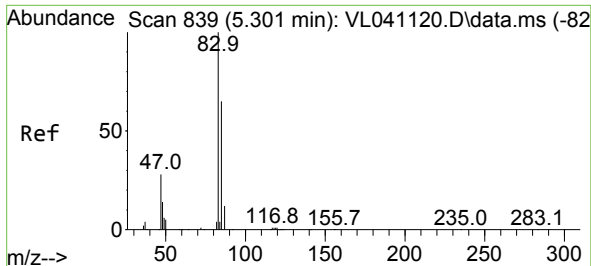
Tgt Ion: 57 Resp: 6494
Ion Ratio Lower Upper
57 100
41 0.0 73.8 110.8#
43 0.0 186.2 279.2#
56 0.0 43.1 64.7#



#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 4.131 min Scan# 475
Delta R.T. 0.006 min
Lab File: VL041161.D
Acq: 23 Apr 2024 15:16

Tgt Ion: 76 Resp: 5430
Ion Ratio Lower Upper
76 100
44 89.4 16.3 24.5#
78 0.0 7.9 11.9#





#29

Chloroform

Concen: 0.074 ppbv

RT: 5.275 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Instrument :

MSVOA_L

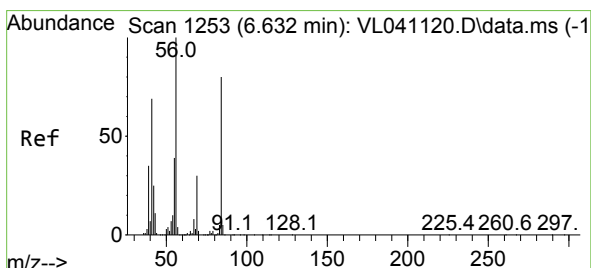
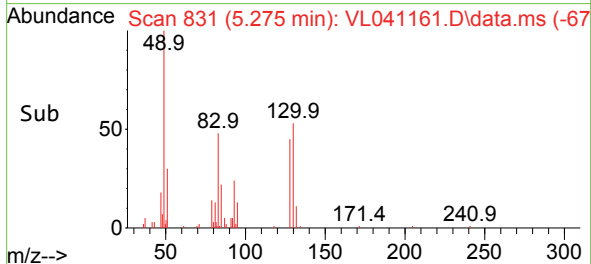
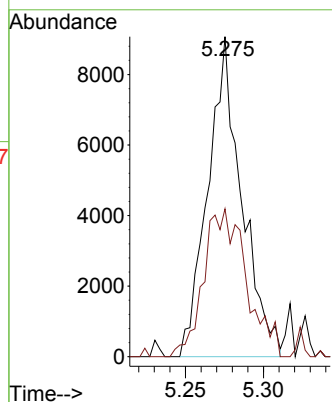
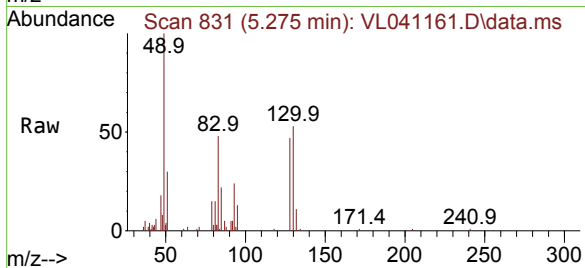
ClientSampleId :

Tgt Ion: 83 Resp: 13671

Ion Ratio Lower Upper

83 100

85 46.2 51.5 77.3#



#30

Cyclohexane

Concen: 0.033 ppbv

RT: 6.600 min Scan# 1243

Delta R.T. 0.006 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

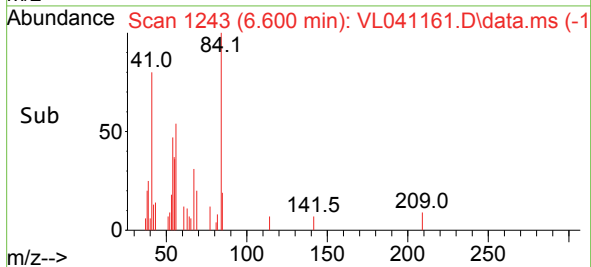
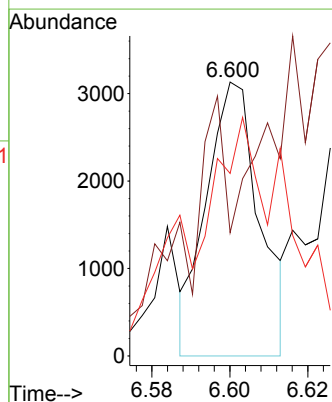
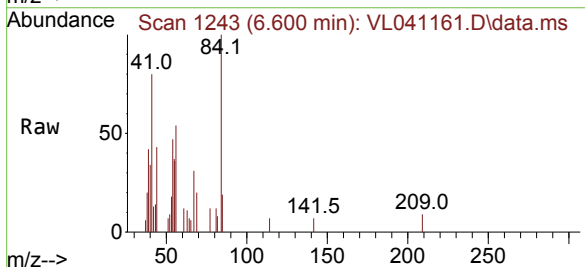
Tgt Ion: 84 Resp: 2967

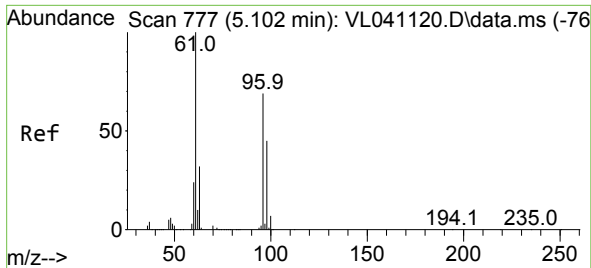
Ion Ratio Lower Upper

84 100

56 0.0 111.9 167.9#

41 192.5 71.0 106.6#

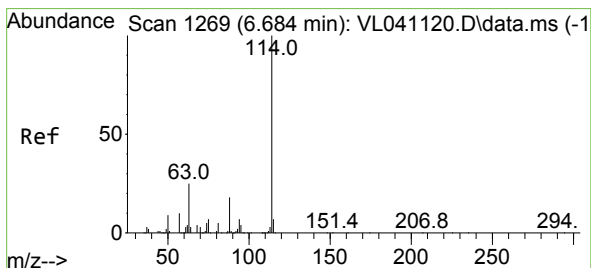
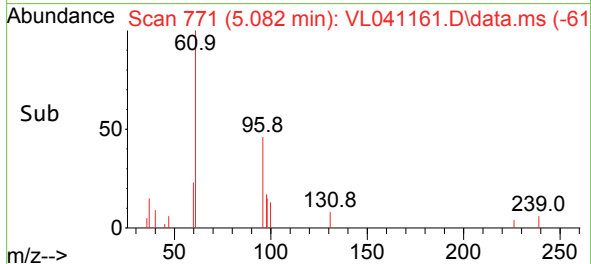
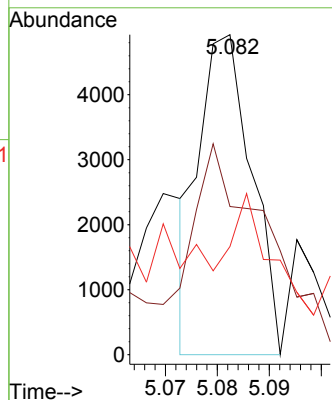
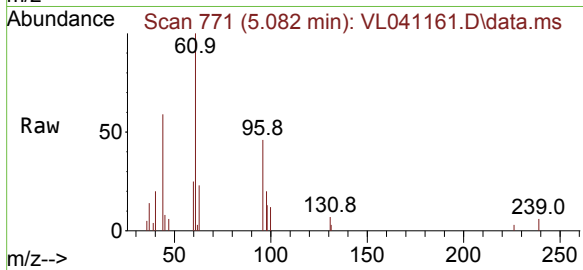




#31
 cis-1,2-Dichloroethene
 Concen: 0.033 ppbv
 RT: 5.082 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL041161.D
 Acq: 23 Apr 2024 15:16

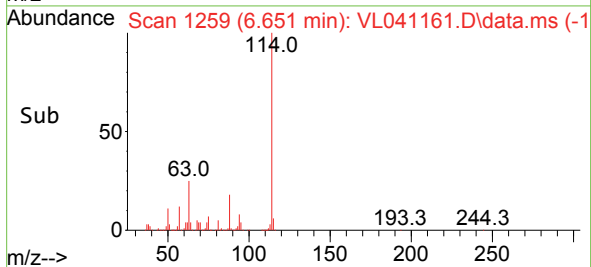
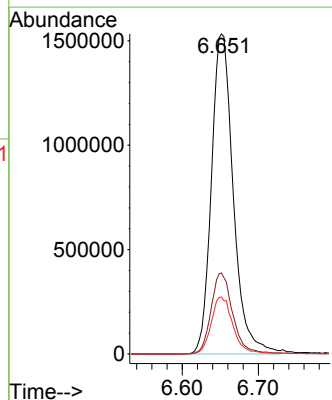
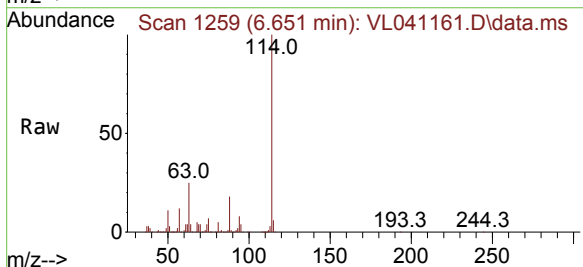
Instrument :
 MSVOA_L
 ClientSampleId :

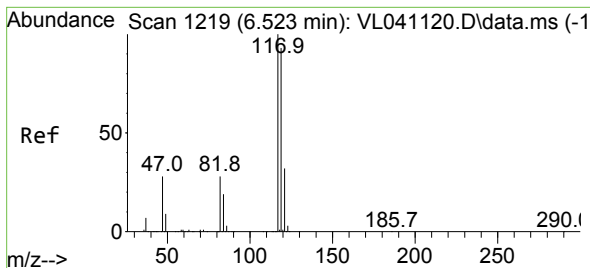
Tgt Ion: 61 Resp: 3424
 Ion Ratio Lower Upper
 61 100
 96 25.5 54.9 82.3#
 98 6.8 35.9 53.9#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.651 min Scan# 1259
 Delta R.T. 0.006 min
 Lab File: VL041161.D
 Acq: 23 Apr 2024 15:16

Tgt Ion: 114 Resp: 3062317
 Ion Ratio Lower Upper
 114 100
 63 25.3 20.9 31.3
 88 18.0 14.5 21.7





#35

Carbon Tetrachloride

Concen: 0.051 ppbv

RT: 6.494 min Scan# 1172

Delta R.T. 0.006 min

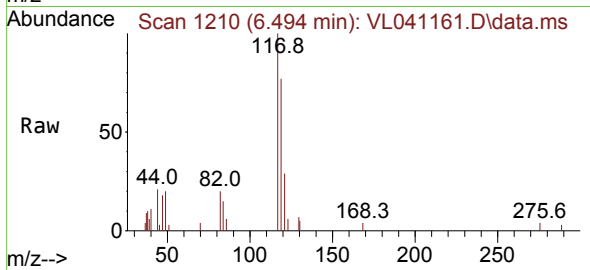
Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Instrument :

MSVOA_L

ClientSampleId :



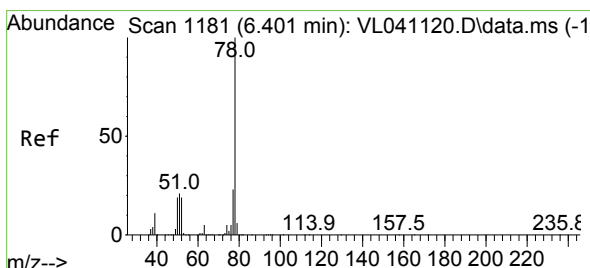
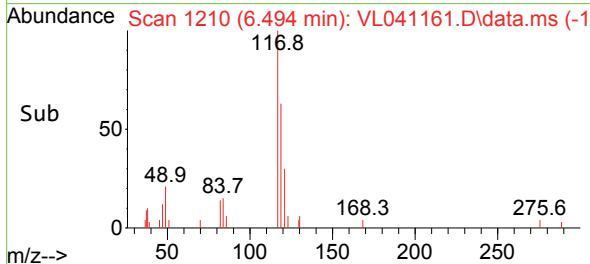
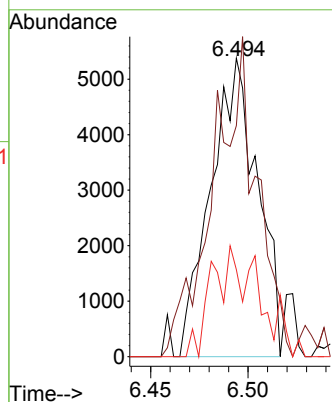
Tgt Ion:117 Resp: 8978

Ion Ratio Lower Upper

117 100

119 58.6 74.2 111.4#

121 29.1 25.4 38.2



#36

Benzene

Concen: 0.035 ppbv

RT: 6.372 min Scan# 1172

Delta R.T. 0.010 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

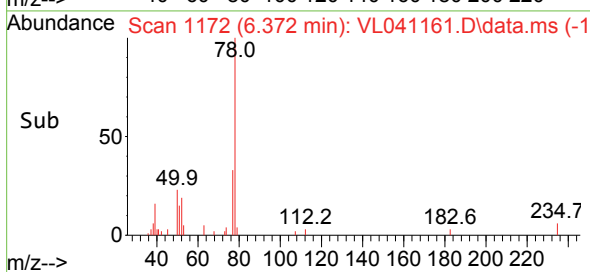
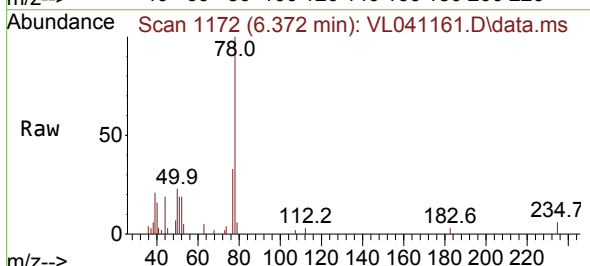
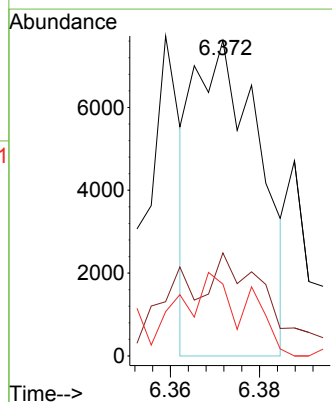
Tgt Ion: 78 Resp: 7802

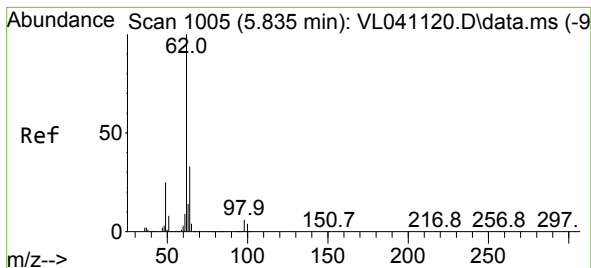
Ion Ratio Lower Upper

78 100

77 42.4 18.2 27.4#

50 36.4 15.4 23.2#





#37

1,2-Dichloroethane

Concen: 0.057 ppbv

RT: 5.806 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Instrument :

MSVOA_L

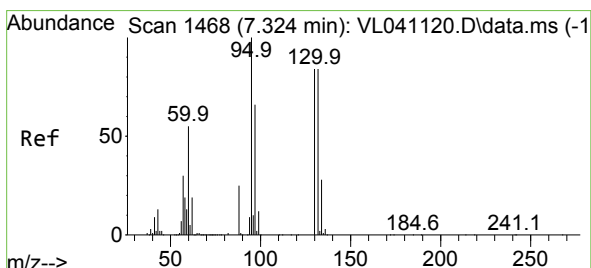
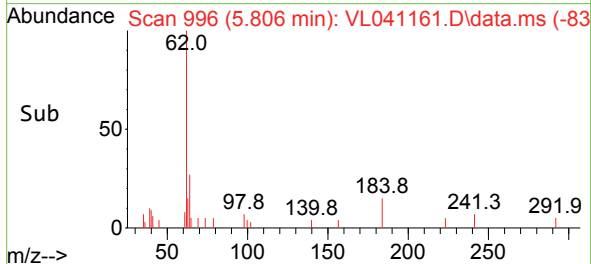
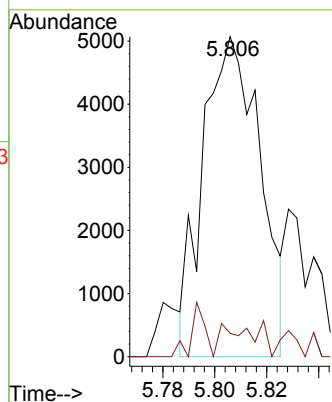
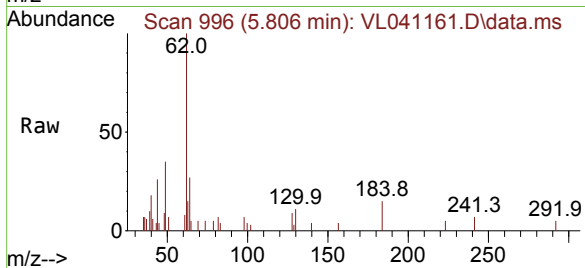
ClientSampleId :

Tgt Ion: 62 Resp: 7747

Ion Ratio Lower Upper

62 100

98 0.0 4.6 7.0#



#38

Trichloroethene

Concen: 0.047 ppbv

RT: 7.288 min Scan# 1457

Delta R.T. 0.006 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Tgt Ion:130 Resp: 3824

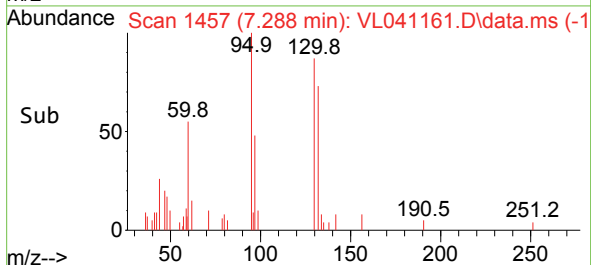
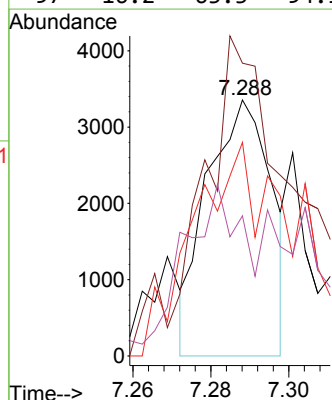
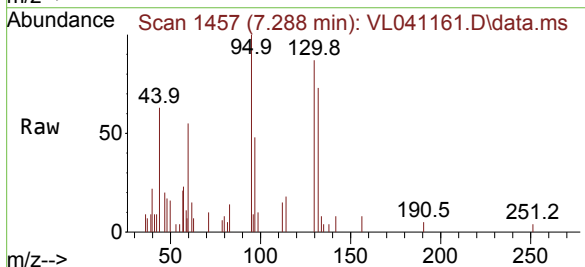
Ion Ratio Lower Upper

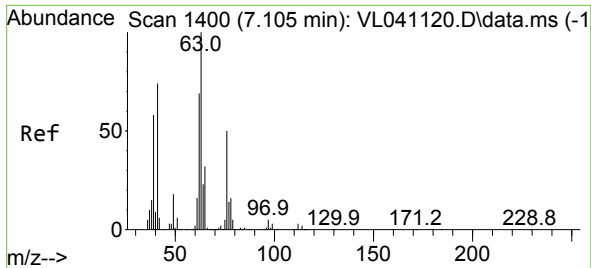
130 100

95 121.4 95.4 143.0

132 58.2 80.0 120.0#

97 16.2 63.3 94.9#





#39

1,2-Dichloropropane

Concen: 8.552 ppbv

RT: 6.651 min Scan# 11

Delta R.T. -0.412 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Instrument :

MSVOA_L

ClientSampleId :

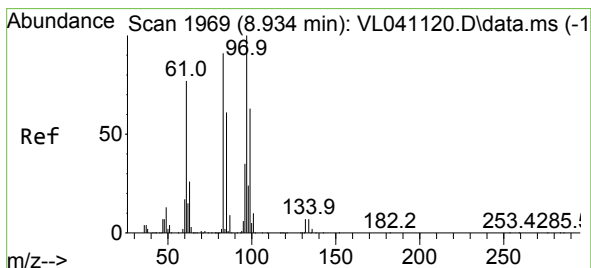
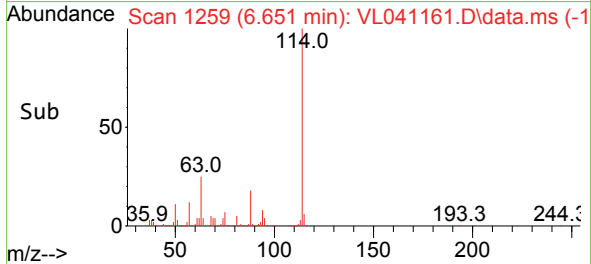
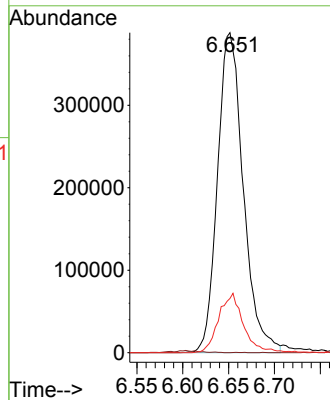
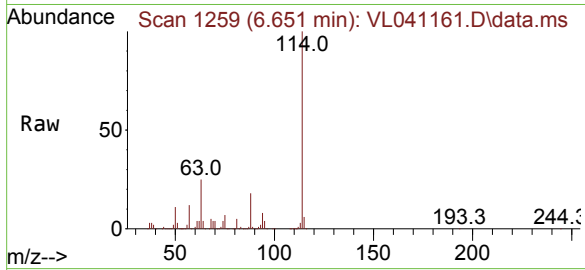
Tgt Ion: 63 Resp: 758327

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 16.9 55.5 83.3#



#47

1,1,2-Trichloroethane

Concen: 0.050 ppbv

RT: 8.896 min Scan# 1957

Delta R.T. 0.006 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Tgt Ion: 97 Resp: 4759

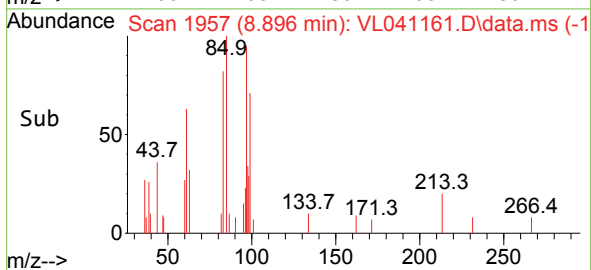
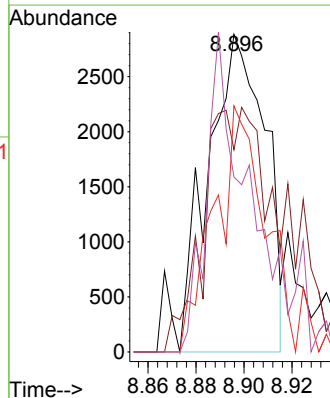
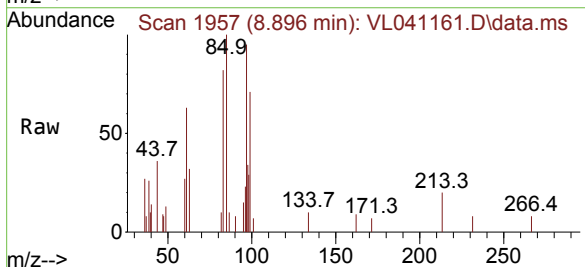
Ion Ratio Lower Upper

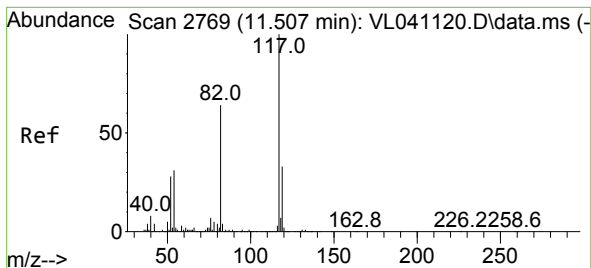
97 100

83 53.5 72.9 109.3#

85 77.5 49.1 73.7#

99 55.1 50.7 76.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 21

Delta R.T. 0.009 min

Lab File: VL041161.D

Acq: 23 Apr 2024 15:16

Instrument :

MSVOA_L

ClientSampleId :

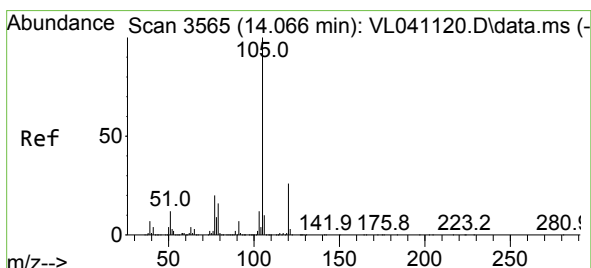
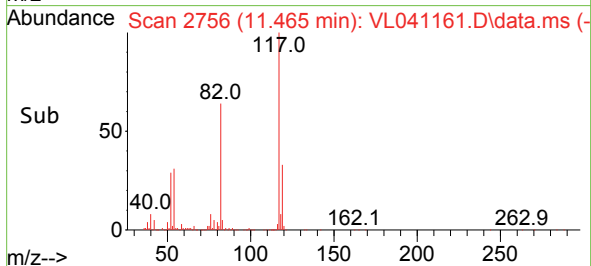
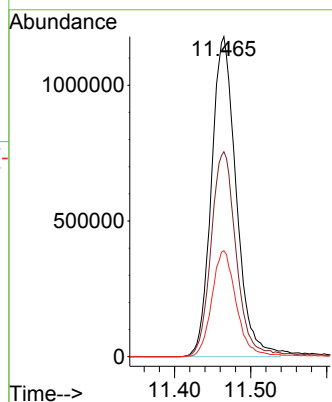
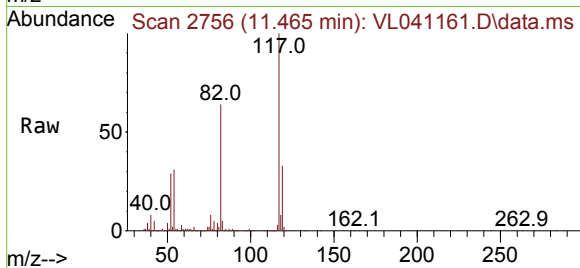
Tgt Ion:117 Resp: 2666386

Ion Ratio Lower Upper

117 100

82 66.7 51.0 76.6

119 33.1 25.2 37.8



#62

Isopropylbenzene

Concen: 0.039 ppbv

RT: 14.027 min Scan# 3553

Delta R.T. 0.010 min

Lab File: VL041161.D

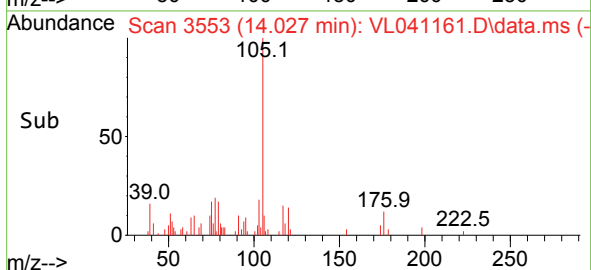
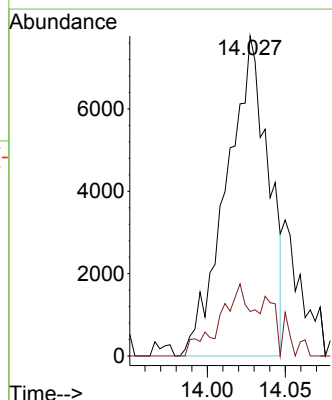
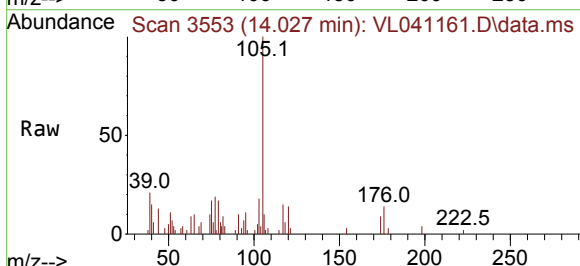
Acq: 23 Apr 2024 15:16

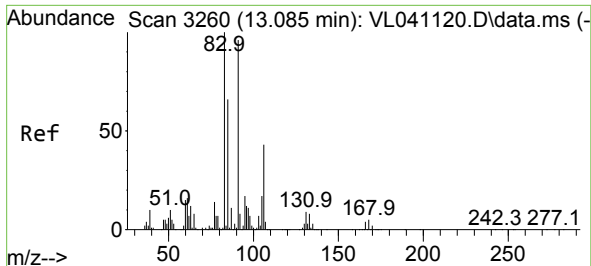
Tgt Ion:105 Resp: 14443

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.4

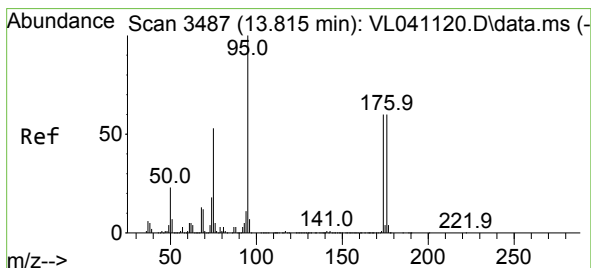
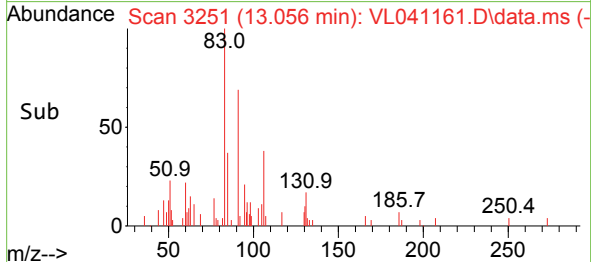
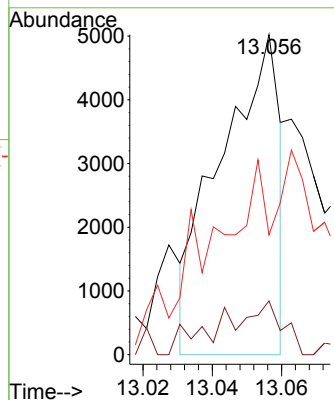
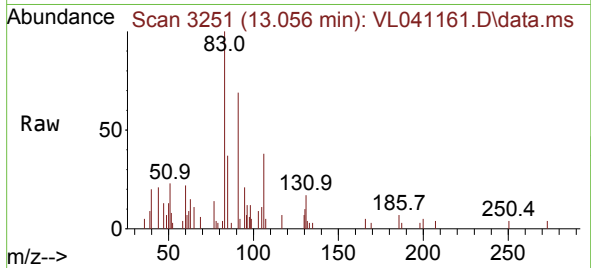




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.031 ppbv
 RT: 13.056 min Scan# 31
 Delta R.T. 0.019 min
 Lab File: VL041161.D
 Acq: 23 Apr 2024 15:16

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 83 Resp: 6009
 Ion Ratio Lower Upper
 83 100
 131 14.1 4.7 14.0#
 85 0.0 33.1 99.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.837 ppbv
 RT: 13.773 min Scan# 3474
 Delta R.T. 0.009 min
 Lab File: VL041161.D
 Acq: 23 Apr 2024 15:16

Tgt Ion: 95 Resp: 2109059
 Ion Ratio Lower Upper
 95 100
 174 61.9 49.3 73.9
 175 4.4 3.6 5.4

