

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022724\
 Data File : VX040479.D
 Acq On : 27 Feb 2024 11:12
 Operator : JC/MD
 Sample : P1578-13DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT180D1-20240221DL

Quant Time: Feb 28 02:00:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022624W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 27 05:01:33 2024
 Response via : Initial Calibration

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

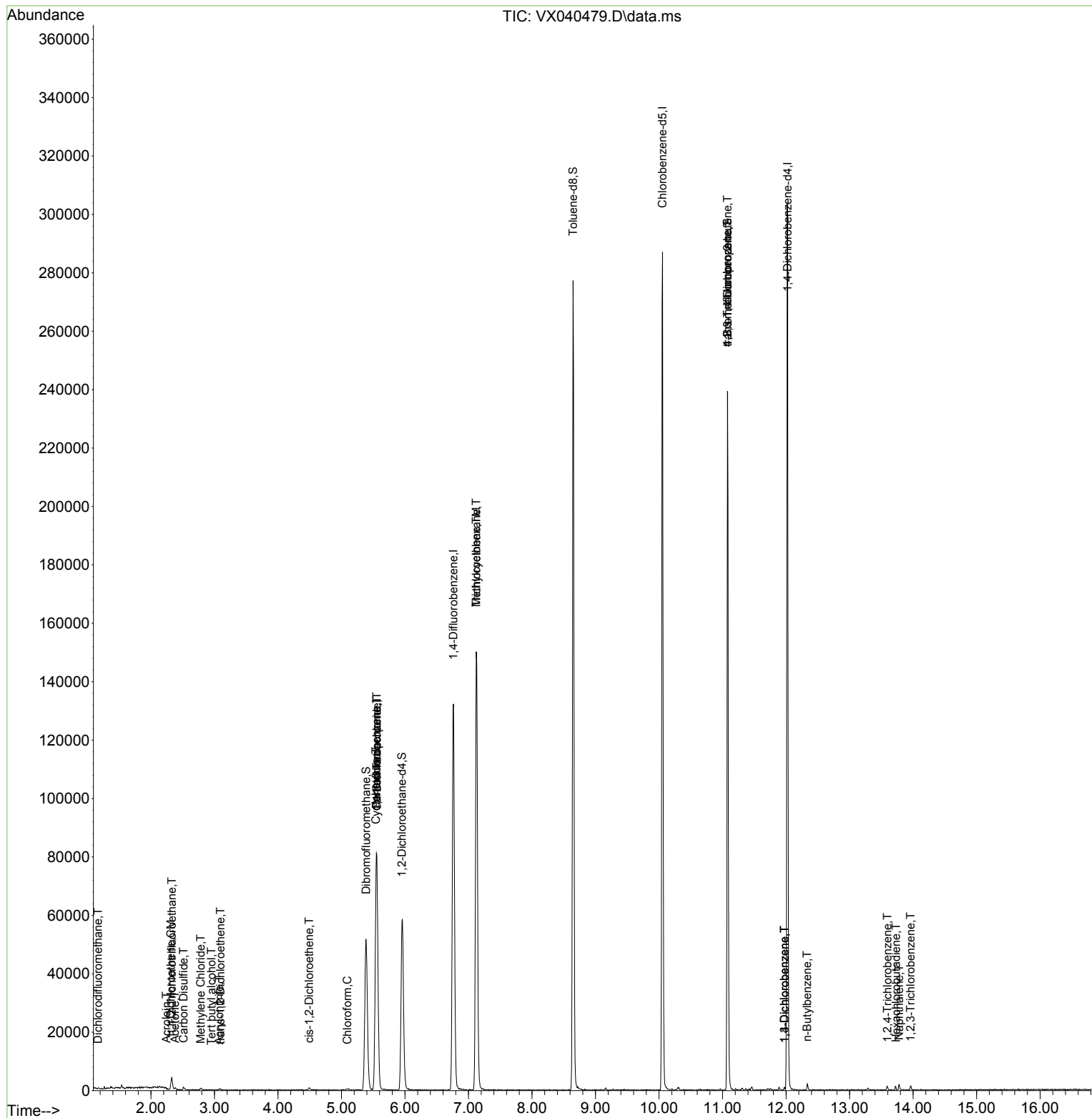
Internal Standards						
1) Pentafluorobenzene	5.550	168	73307	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	128746	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	121886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	59444	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59099	48.201	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.400%		
35) Dibromofluoromethane	5.385	113	44088	49.244	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.480%		
50) Toluene-d8	8.647	98	157511	48.468	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.940%		
62) 4-Bromofluorobenzene	11.079	95	59357	47.915	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.840%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	247	0.271	ug/l #	41
9) 1,1,2-Trichlorotrifluo...	2.331	101	1113	1.338	ug/l	97
11) Tert butyl alcohol	2.953	59	47	0.228	ug/l #	78
12) 1,1-Dichloroethene	2.313	96	699	0.837	ug/l #	55
13) Acrolein	2.239	56	115	0.870	ug/l #	60
15) Acrylonitrile	3.075	53	139	0.269	ug/l #	73
16) Acetone	2.380	43	588	1.471	ug/l #	78
17) Carbon Disulfide	2.514	76	724	0.313	ug/l #	80
20) Methylene Chloride	2.782	84	365	0.381	ug/l #	69
21) trans-1,2-Dichloroethene	3.093	96	194	0.218	ug/l #	47
27) cis-1,2-Dichloroethene	4.489	96	516	0.495	ug/l	49
30) Chloroform	5.093	83	616	0.339	ug/l #	77
31) Cyclohexane	5.544	56	2028	1.460	ug/l #	55
36) 1,1-Dichloropropene	5.556	75	6979	5.060	ug/l #	51
38) Carbon Tetrachloride	5.556	117	7988	5.995	ug/l #	18
39) Methylcyclohexane	7.123	83	763	0.512	ug/l #	1
44) Trichloroethene	7.123	130	53675	53.443	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	35009	26.760	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	35009	77.709	ug/l #	5
87) 1,3-Dichlorobenzene	11.975	146	471	0.228	ug/l	80
88) 1,4-Dichlorobenzene	11.975	146	471	0.224	ug/l	81
89) n-Butylbenzene	12.329	91	970	0.259	ug/l	80
93) 1,2,4-Trichlorobenzene	13.597	180	533	0.415	ug/l	86
94) Hexachlorobutadiene	13.731	225	256	0.488	ug/l	97
95) Naphthalene	13.780	128	1446	0.353	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	468	0.384	ug/l	96

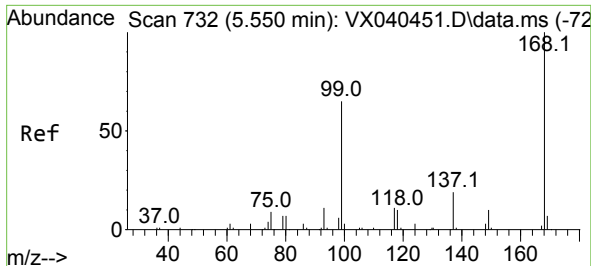
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

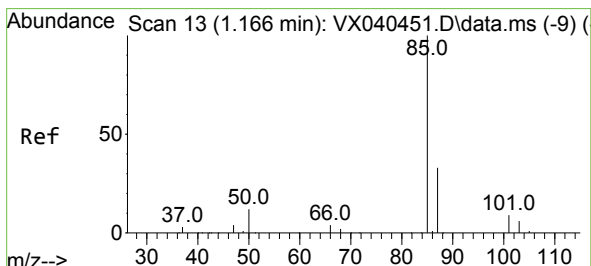
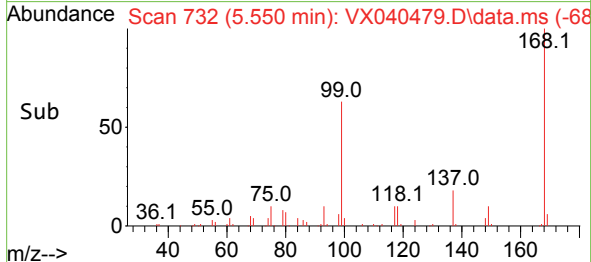
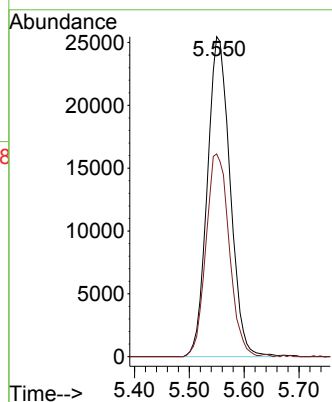
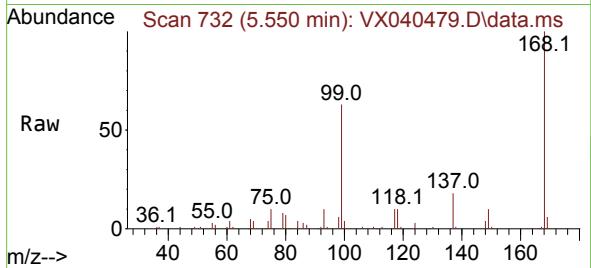




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

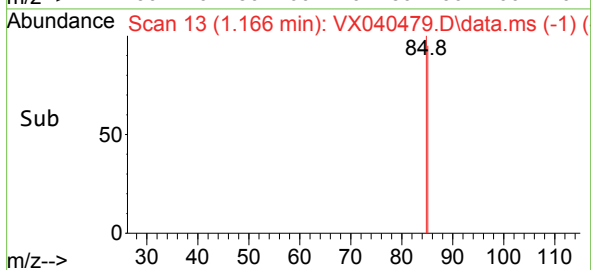
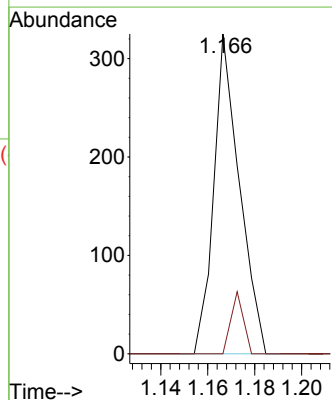
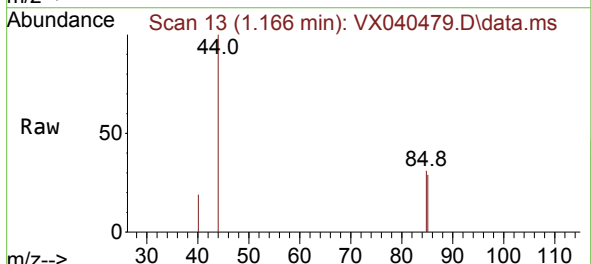
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

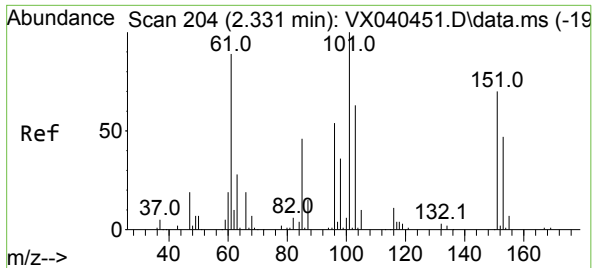
Tgt Ion:168 Resp: 73307
Ion Ratio Lower Upper
168 100
99 63.4 56.6 85.0



#2
Dichlorodifluoromethane
Concen: 0.271 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 85 Resp: 247
Ion Ratio Lower Upper
85 100
87 0.0 16.7 50.1#

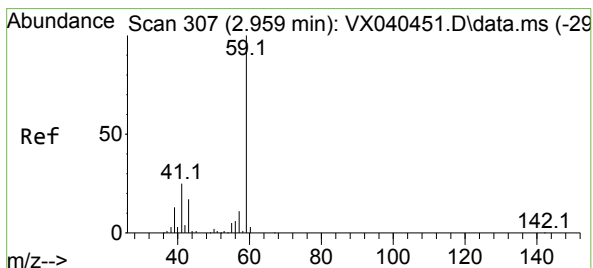
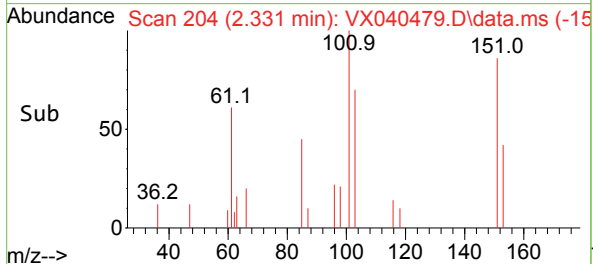
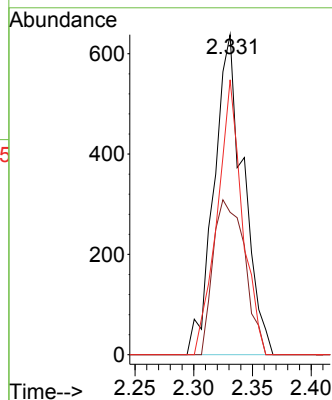
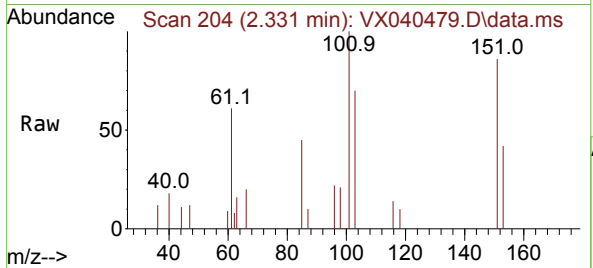




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.338 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

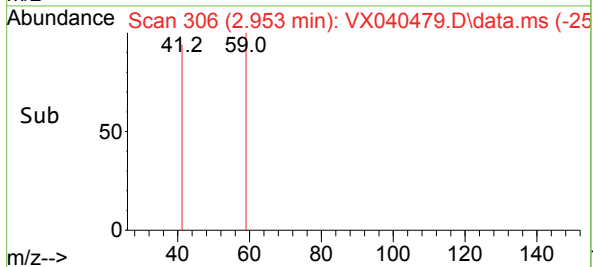
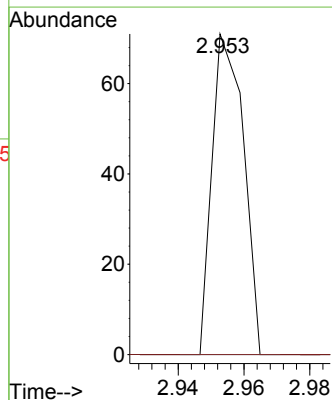
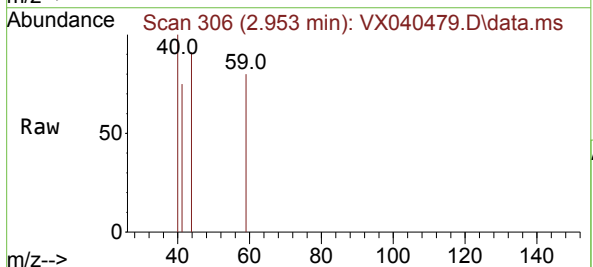
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

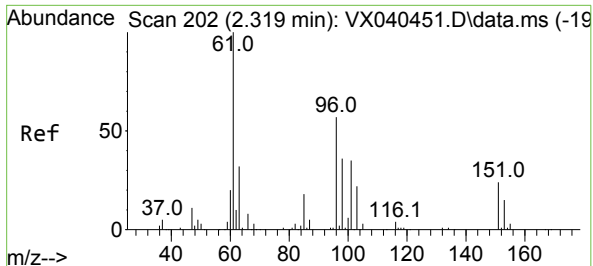
Tgt Ion:101 Resp: 1113
Ion Ratio Lower Upper
101 100
85 51.9 37.0 55.6
151 73.2 58.6 87.8



#11
Tert butyl alcohol
Concen: 0.228 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 59 Resp: 47
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#

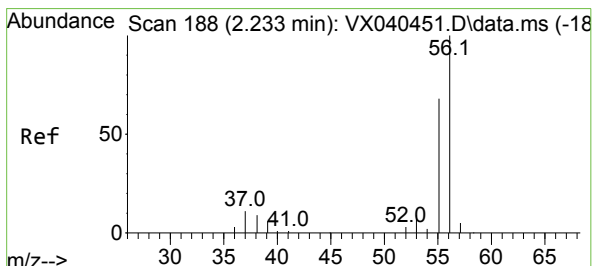
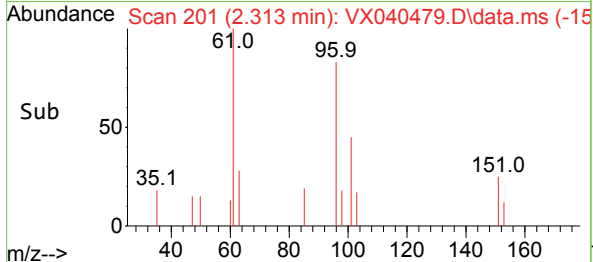
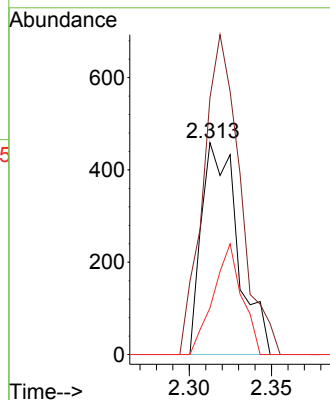
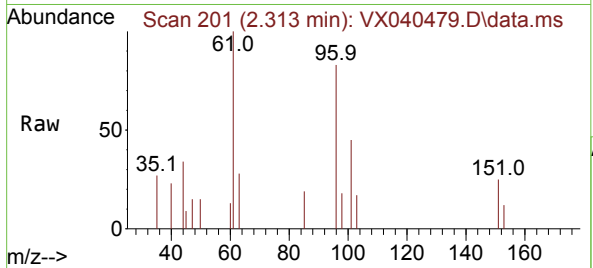




#12
1,1-Dichloroethene
Concen: 0.837 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

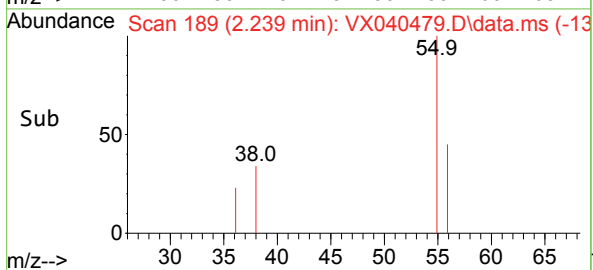
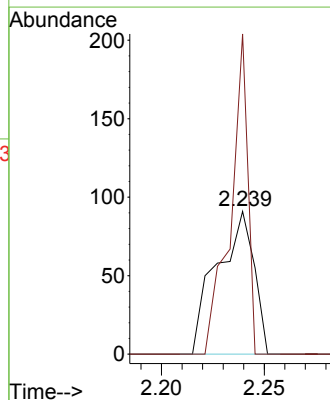
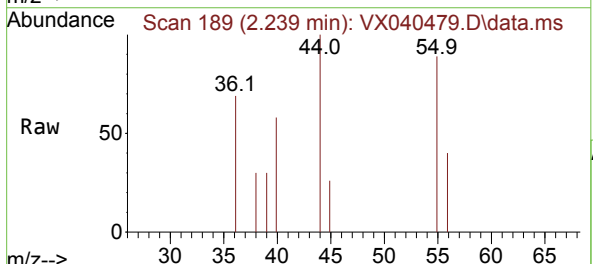
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

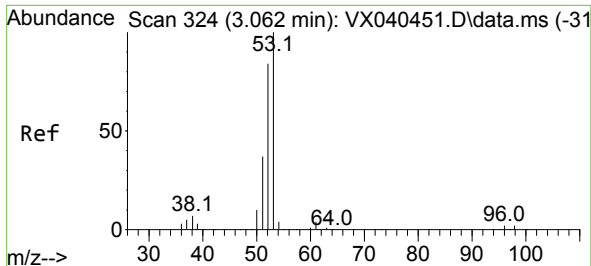
Tgt Ion: 96 Resp: 699
Ion Ratio Lower Upper
96 100
61 121.1 144.6 216.8#
98 22.0 50.4 75.6#



#13
Acrolein
Concen: 0.870 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 104.3 57.1 85.7#

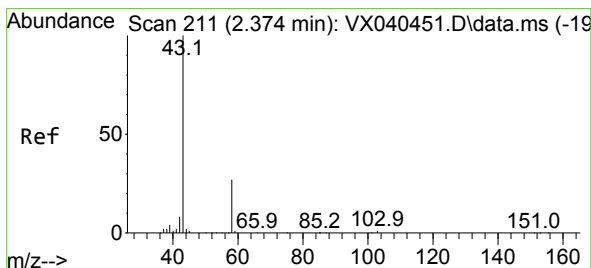
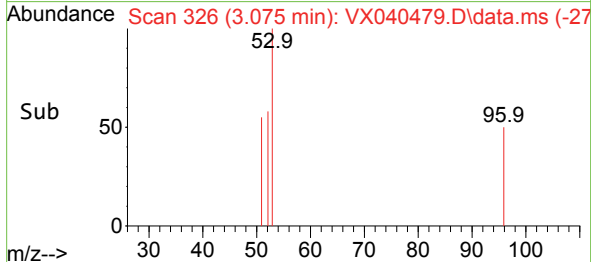
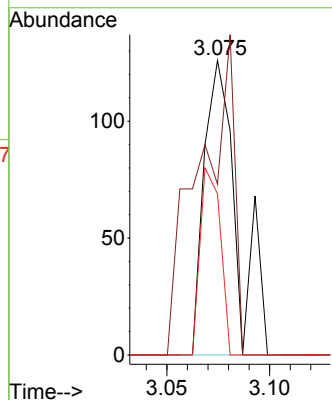
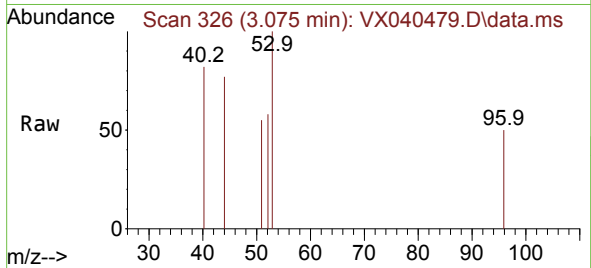




#15
Acrylonitrile
Concen: 0.269 ug/l
RT: 3.075 min Scan# 31
Delta R.T. 0.012 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

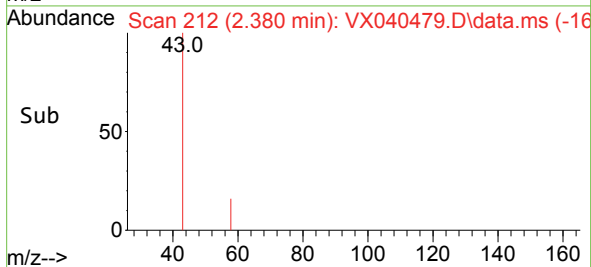
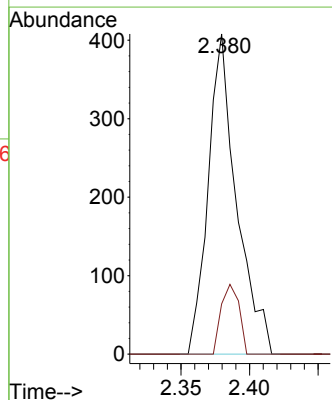
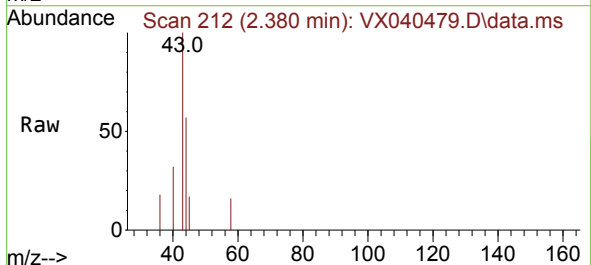
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

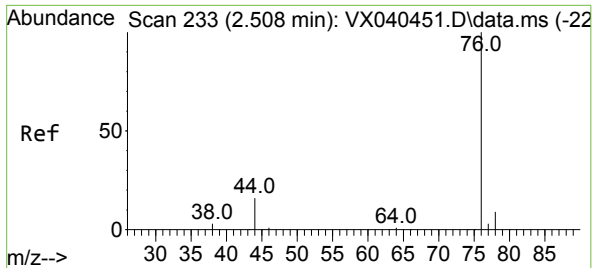
Tgt Ion: 53 Resp: 139
Ion Ratio Lower Upper
53 100
52 116.5 66.0 99.0#
51 39.6 29.8 44.6



#16
Acetone
Concen: 1.471 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 43 Resp: 588
Ion Ratio Lower Upper
43 100
58 15.7 21.9 32.9#





#17

Carbon Disulfide

Concen: 0.313 ug/l

RT: 2.514 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX040479.D

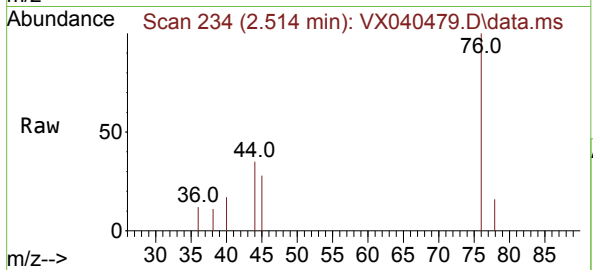
Acq: 27 Feb 2024 11:12

Instrument :

MSVOA_X

ClientSampleId :

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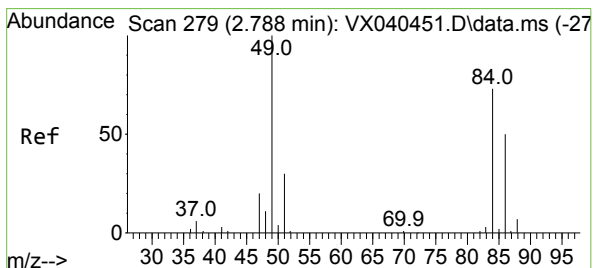
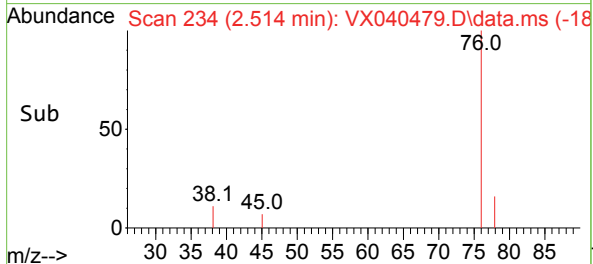
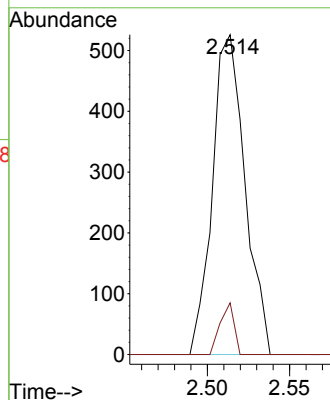


Tgt Ion: 76 Resp: 724

Ion Ratio Lower Upper

76 100

78 16.2 7.0 10.6#



#20

Methylene Chloride

Concen: 0.381 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX040479.D

Acq: 27 Feb 2024 11:12

Tgt Ion: 84 Resp: 365

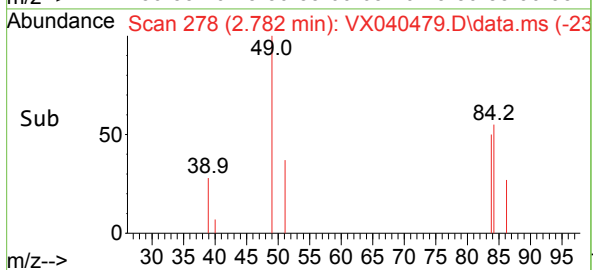
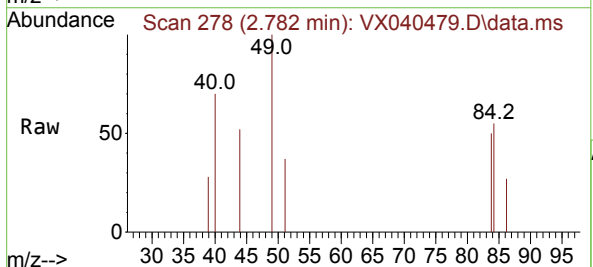
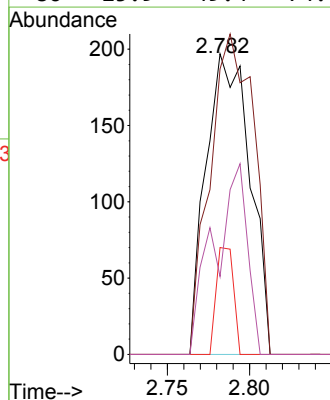
Ion Ratio Lower Upper

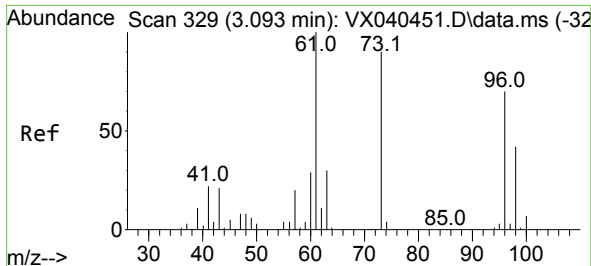
84 100

49 94.9 103.6 155.4#

51 35.5 33.8 50.6

86 25.9 49.4 74.0#

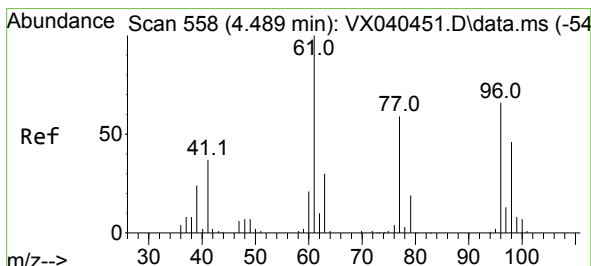
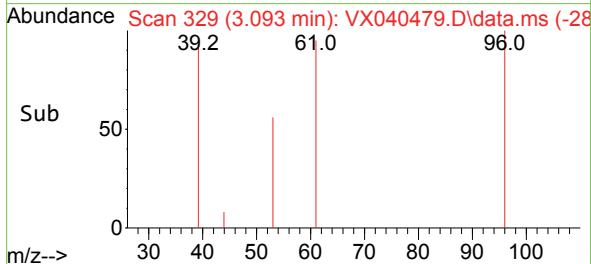
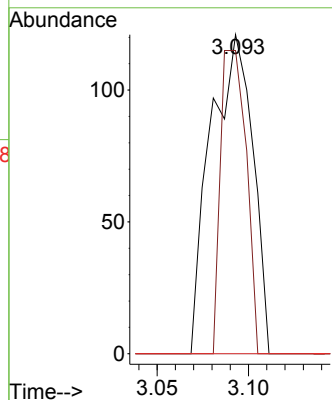
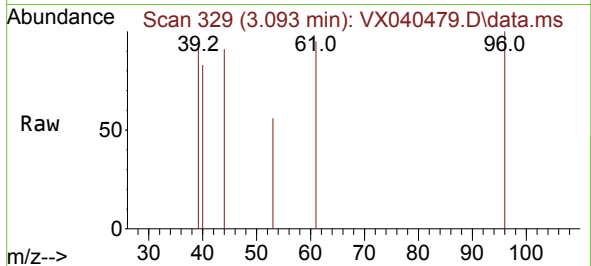




#21
trans-1,2-Dichloroethene
Concen: 0.218 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

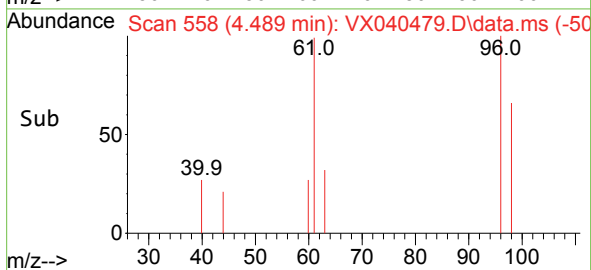
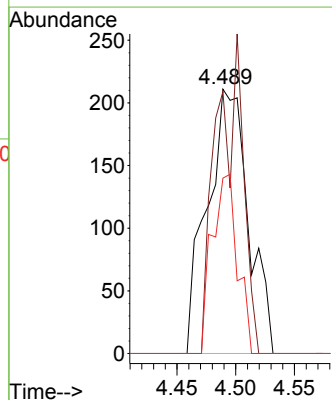
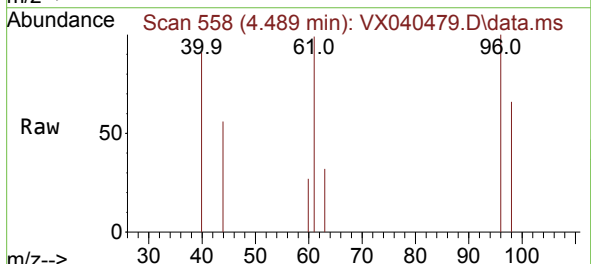
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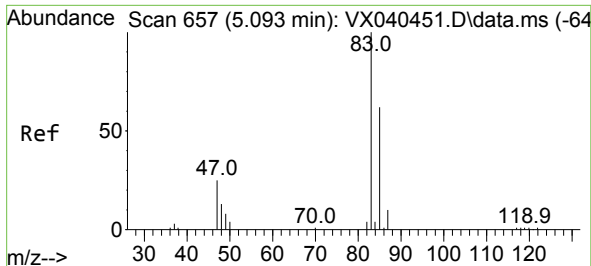
Tgt Ion: 96 Resp: 194
Ion Ratio Lower Upper
96 100
61 95.0 119.2 178.8#
98 0.0 48.7 73.1#



#27
cis-1,2-Dichloroethene
Concen: 0.495 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 96 Resp: 516
Ion Ratio Lower Upper
96 100
61 77.5 0.0 312.2
98 41.9 0.0 129.0

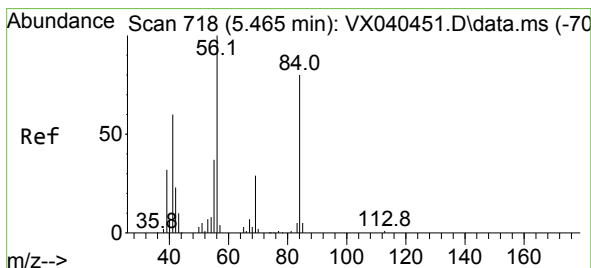
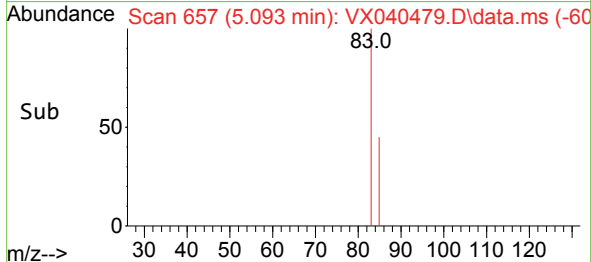
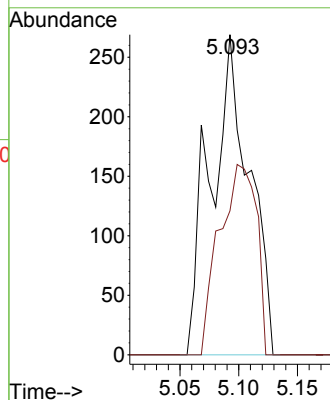
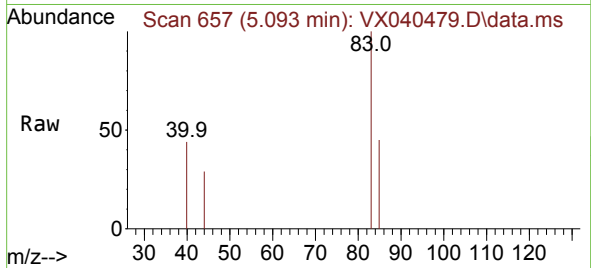




#30
Chloroform
Concen: 0.339 ug/l
RT: 5.093 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

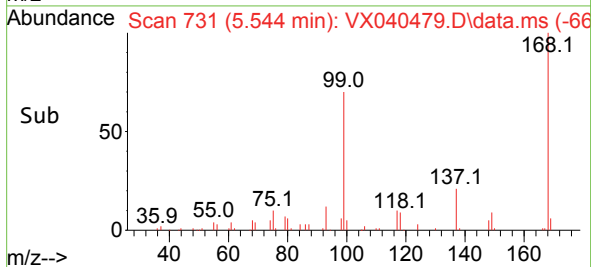
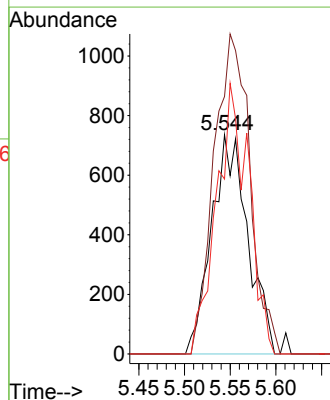
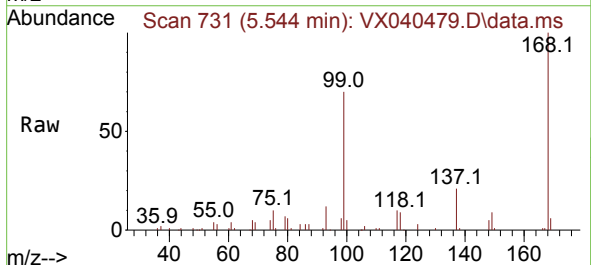
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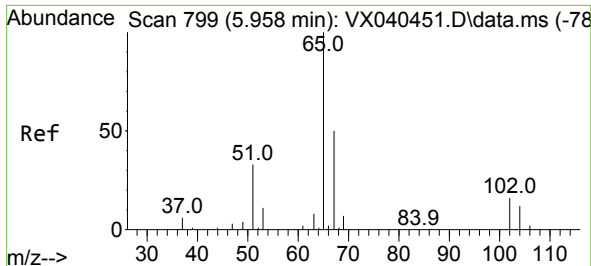
Tgt Ion: 83 Resp: 616
Ion Ratio Lower Upper
83 100
85 45.0 50.3 75.5#



#31
Cyclohexane
Concen: 1.460 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.079 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 56 Resp: 2028
Ion Ratio Lower Upper
56 100
69 117.4 23.4 35.2#
84 79.8 65.9 98.9

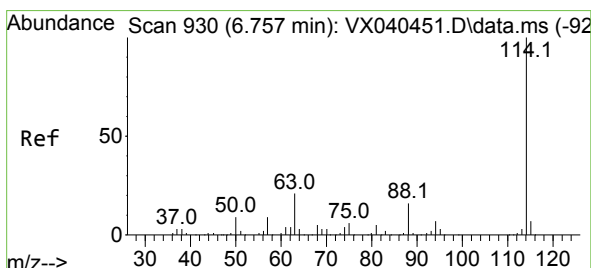
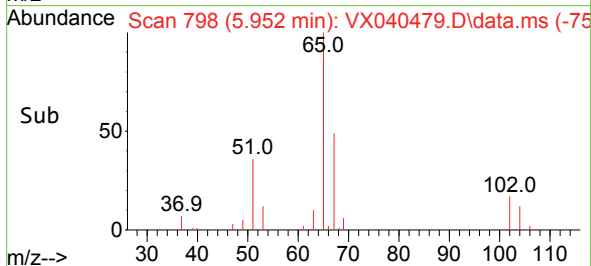
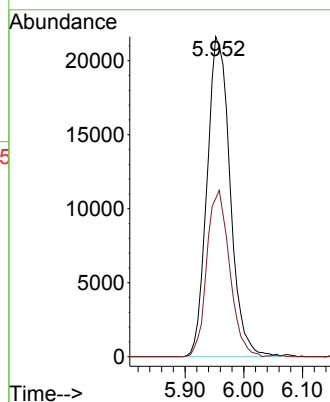
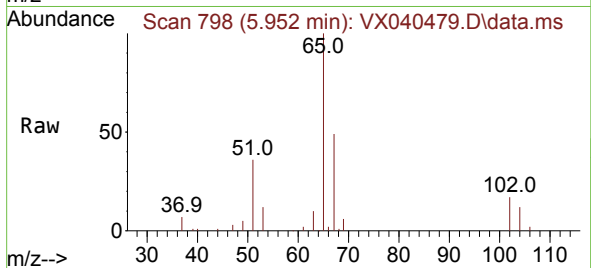




#33
1,2-Dichloroethane-d4
Concen: 48.201 ug/l
RT: 5.952 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

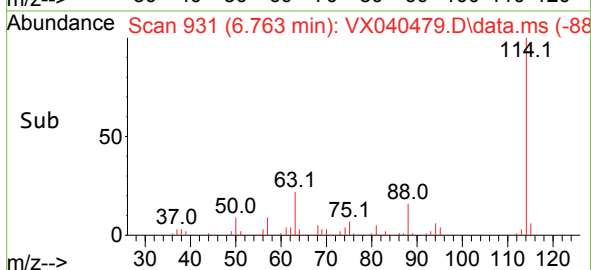
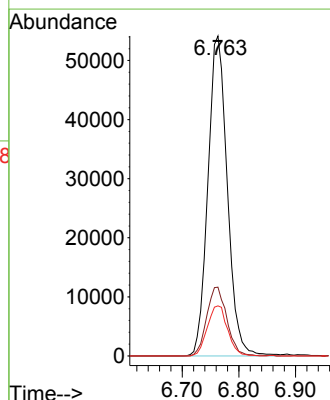
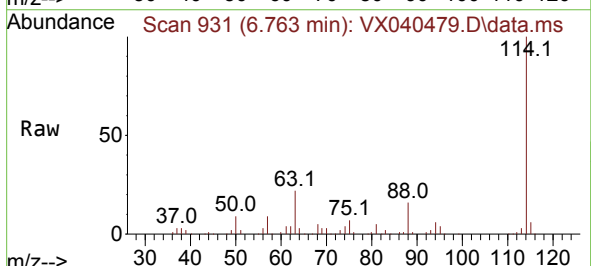
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

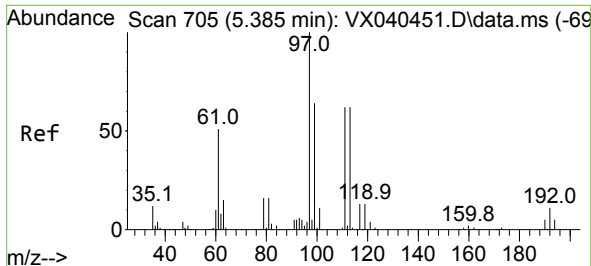
Tgt Ion: 65 Resp: 59099
Ion Ratio Lower Upper
65 100
67 51.4 0.0 100.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 114 Resp: 128746
Ion Ratio Lower Upper
114 100
63 21.5 0.0 45.0
88 15.6 0.0 36.6

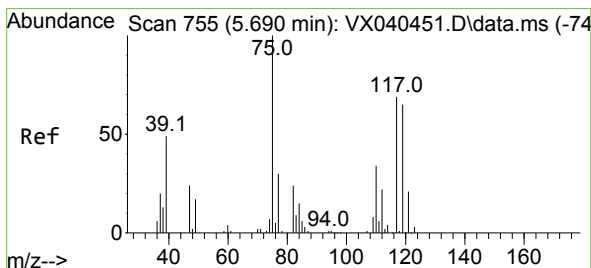
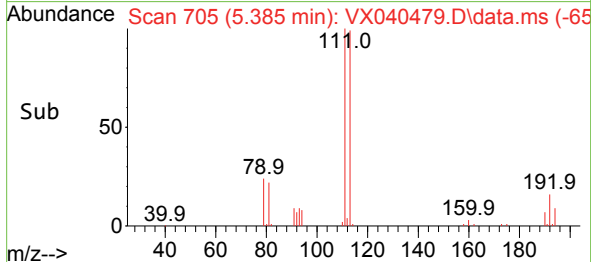
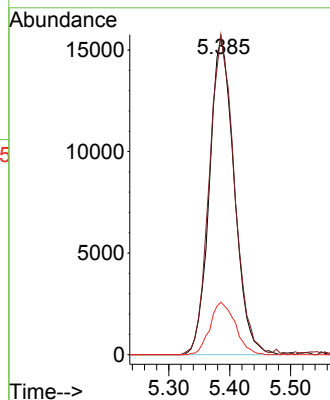
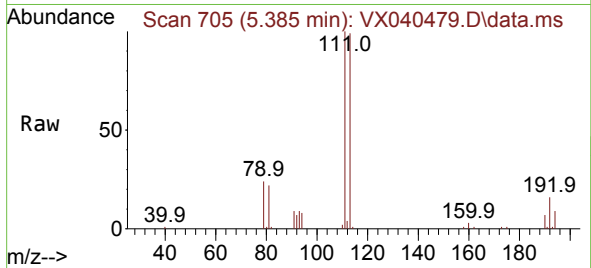




#35
Dibromofluoromethane
Concen: 49.244 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

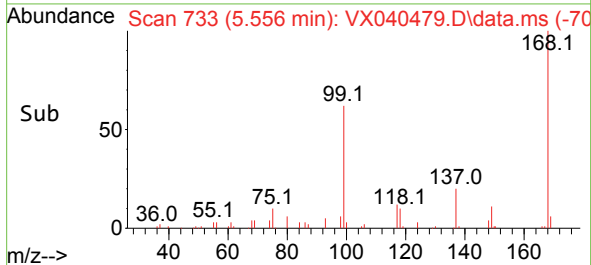
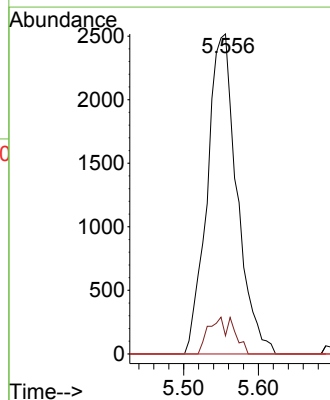
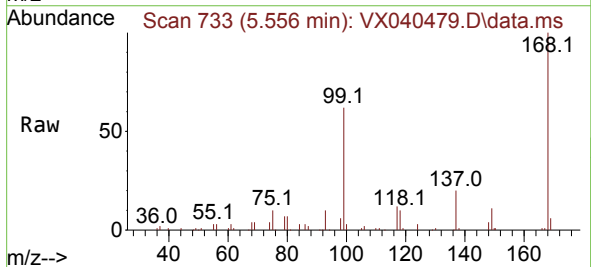
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

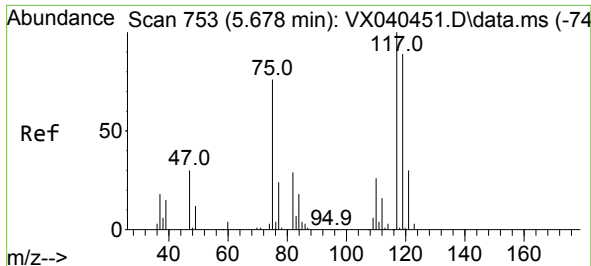
Tgt Ion:113 Resp: 44088
Ion Ratio Lower Upper
113 100
111 102.3 82.9 124.3
192 16.9 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.060 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.134 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

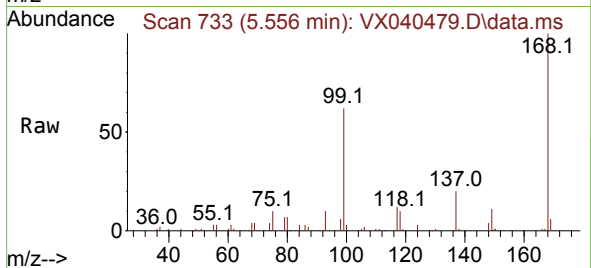
Tgt Ion: 75 Resp: 6979
Ion Ratio Lower Upper
75 100
110 9.7 17.0 50.9#
77 0.0 24.7 37.1#



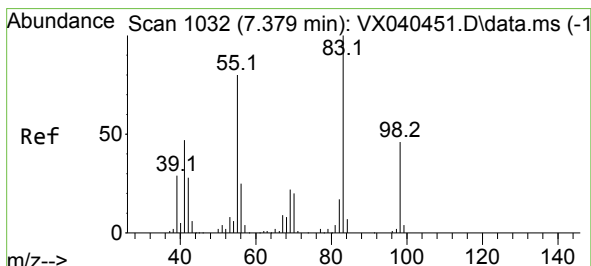
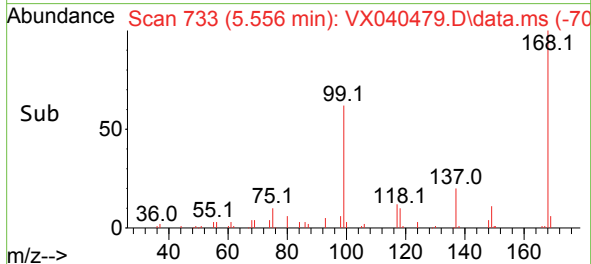
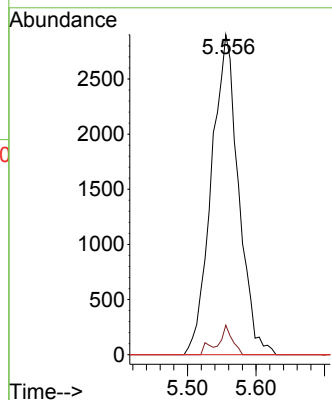


#38
Carbon Tetrachloride
Concen: 5.995 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

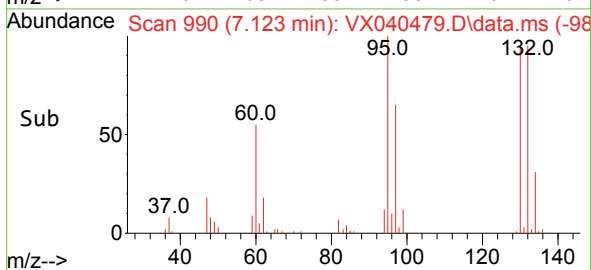
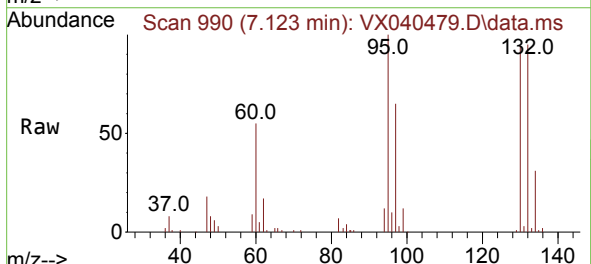
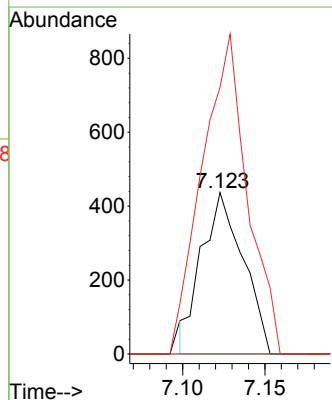


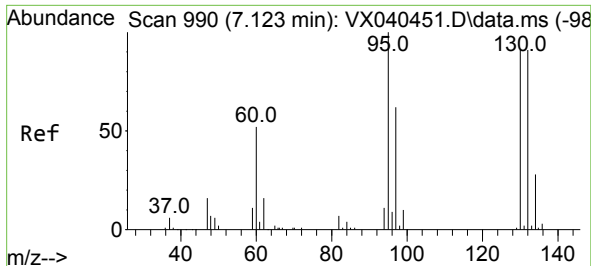
Tgt Ion:117 Resp: 7988
Ion Ratio Lower Upper
117 100
119 9.2 78.2 117.2#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.512 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.256 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 83 Resp: 763
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 165.2 36.7 55.1#

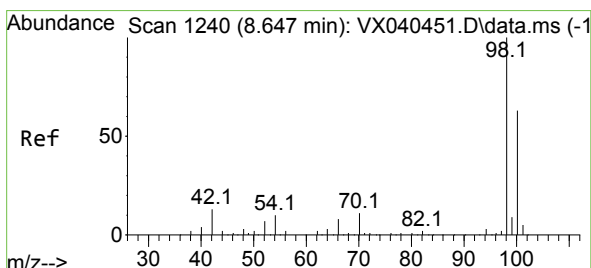
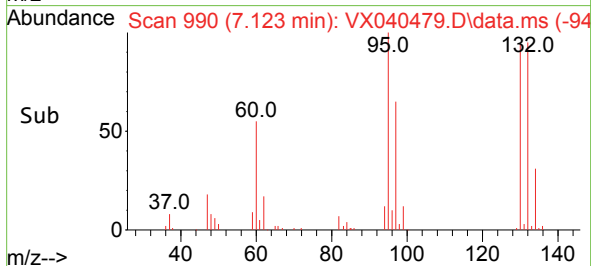
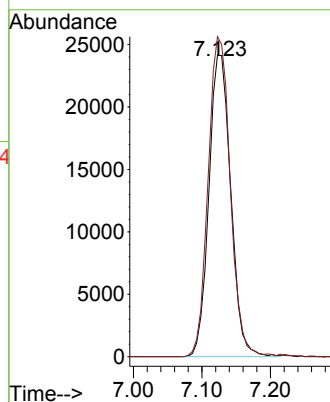
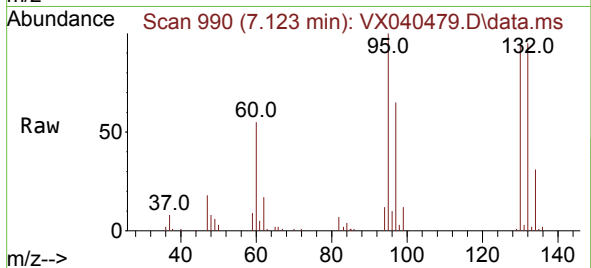




#44
Trichloroethene
Concen: 53.443 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

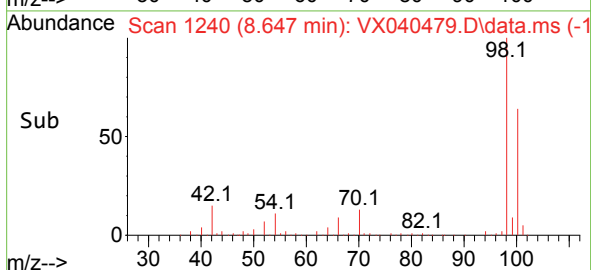
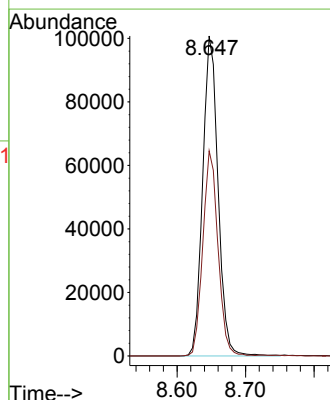
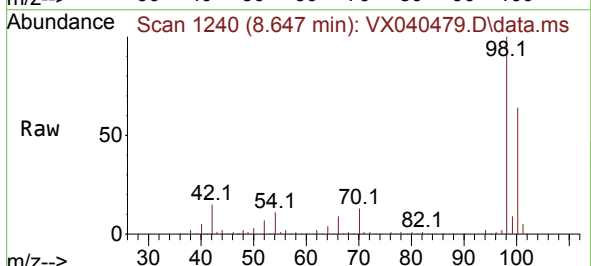
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

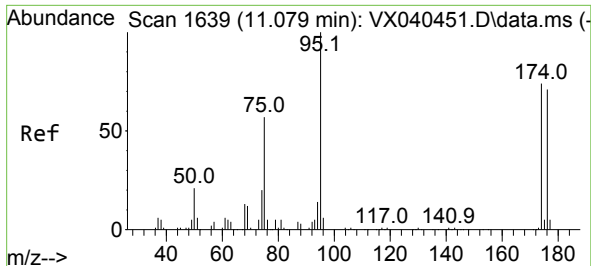
Tgt Ion:130 Resp: 53675
Ion Ratio Lower Upper
130 100
95 106.1 0.0 204.4



#50
Toluene-d8
Concen: 48.468 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 98 Resp: 157511
Ion Ratio Lower Upper
98 100
100 63.3 53.1 79.7

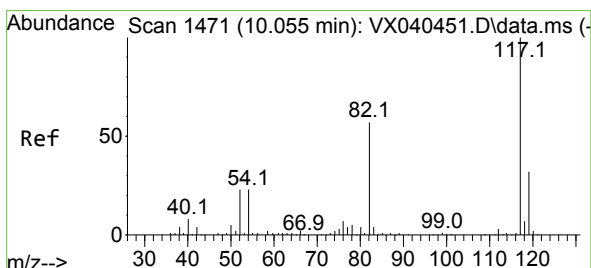
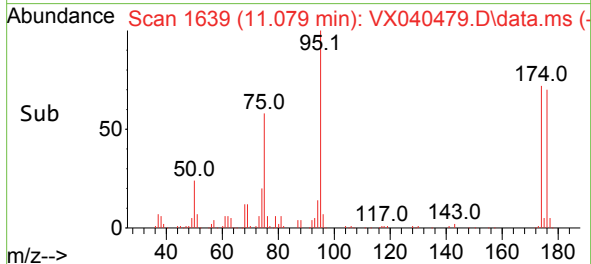
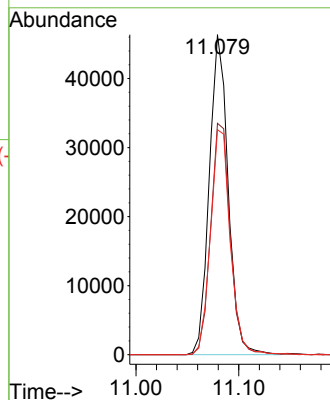
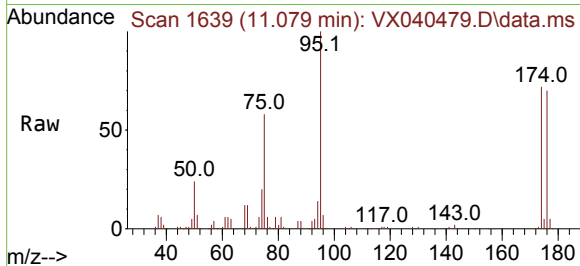




#62
4-Bromofluorobenzene
Concen: 47.915 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

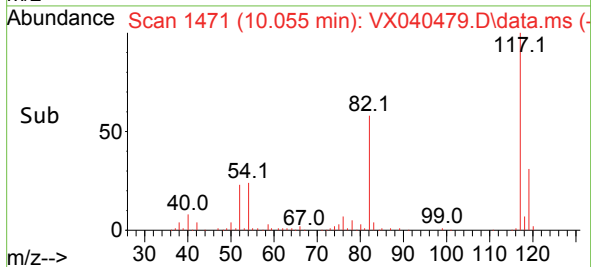
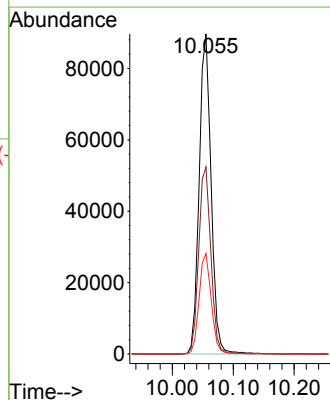
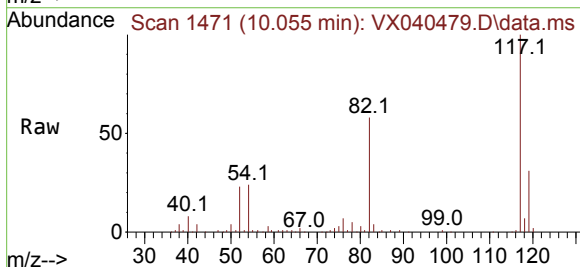
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

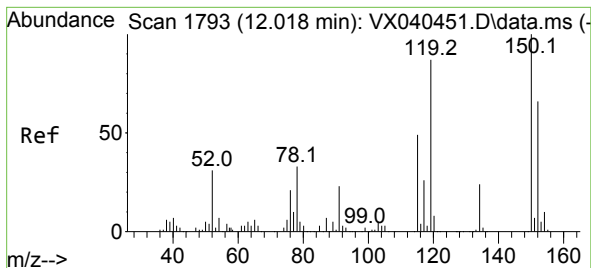
Tgt Ion: 95 Resp: 59357
Ion Ratio Lower Upper
95 100
174 75.1 0.0 135.6
176 73.6 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 117 Resp: 121886
Ion Ratio Lower Upper
117 100
82 58.4 46.2 69.4
119 31.4 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX040479.D

Acq: 27 Feb 2024 11:12

Instrument :

MSVOA_X

ClientSampleId :

TT180D1-20240221DL

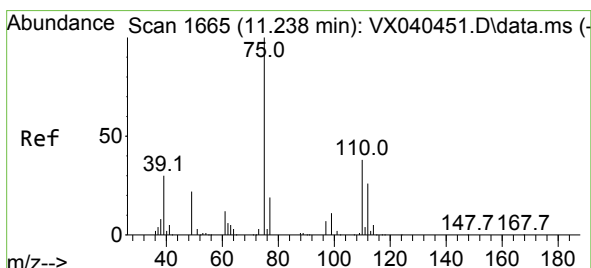
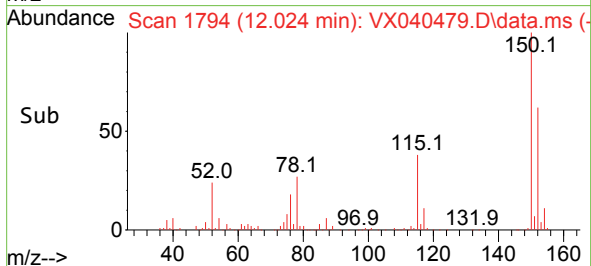
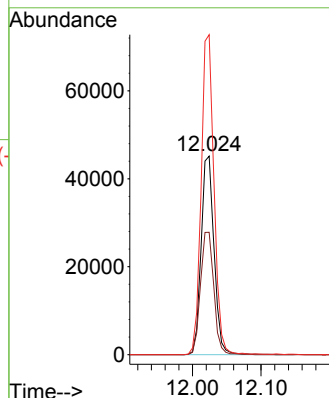
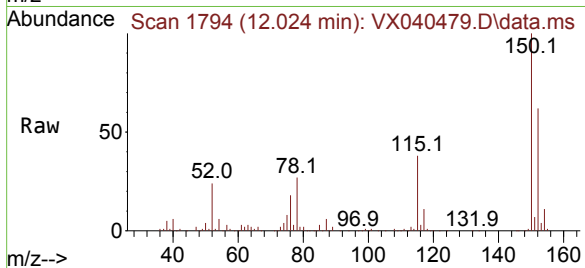
Tgt Ion:152 Resp: 59444

Ion Ratio Lower Upper

152 100

115 63.5 43.3 129.9

150 159.5 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 26.760 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX040479.D

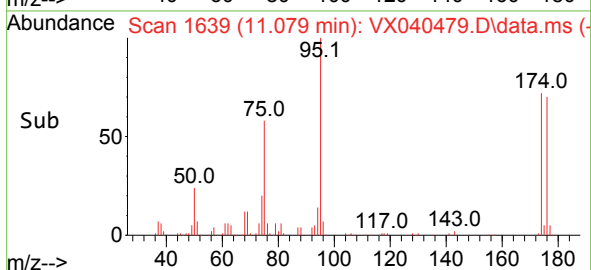
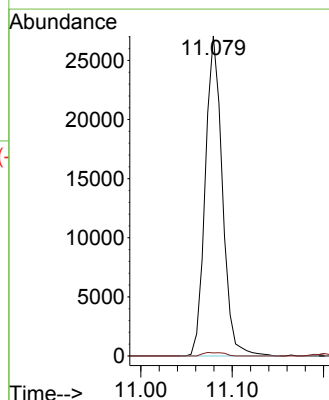
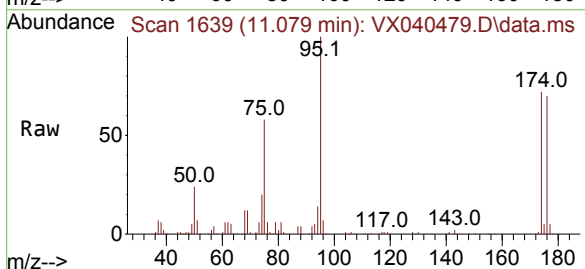
Acq: 27 Feb 2024 11:12

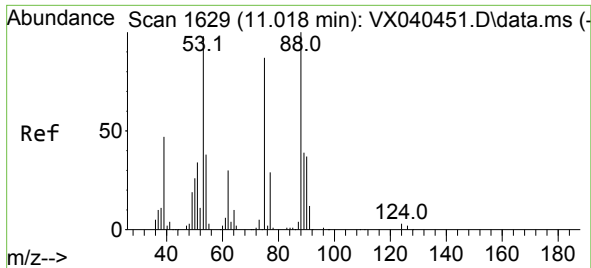
Tgt Ion: 75 Resp: 35009

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#

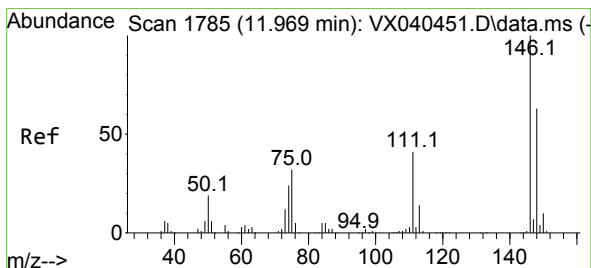
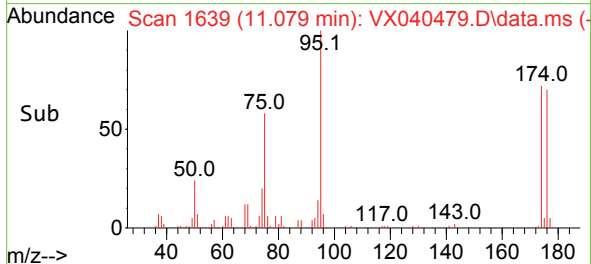
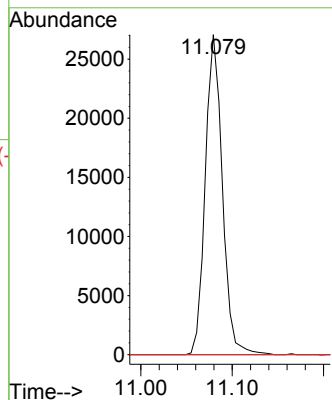
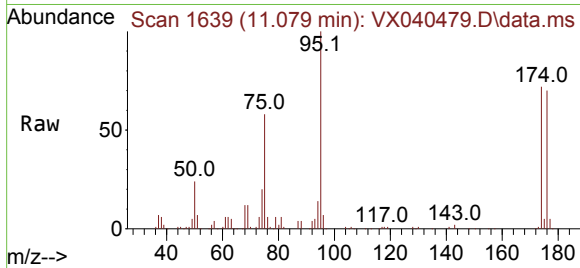




#81
trans-1,4-Dichloro-2-butene
Concen: 77.709 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

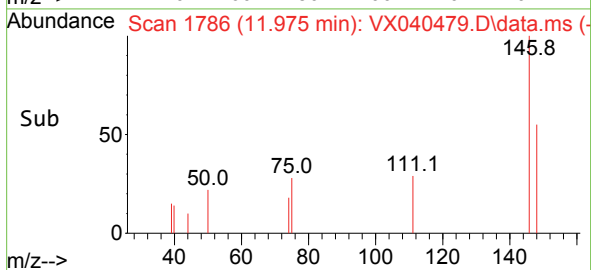
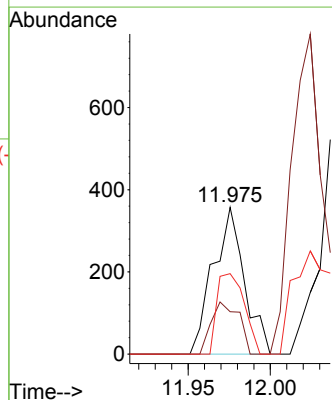
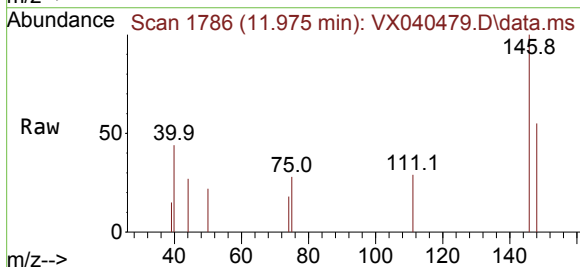
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

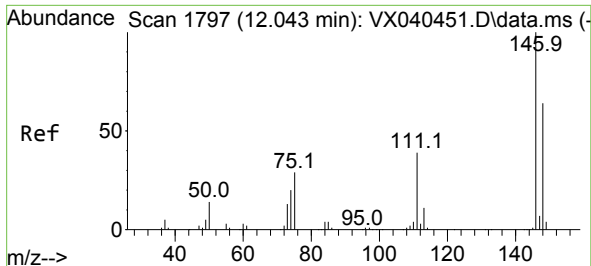
Tgt Ion: 75 Resp: 35009
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#87
1,3-Dichlorobenzene
Concen: 0.228 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

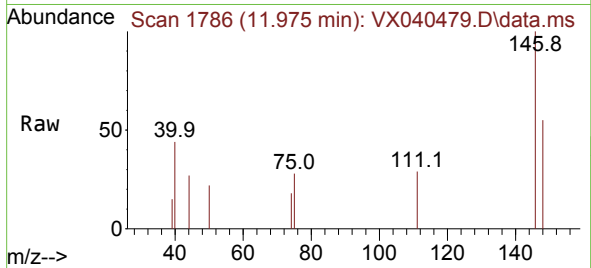
Tgt Ion: 146 Resp: 471
Ion Ratio Lower Upper
146 100
111 31.4 22.1 66.1
148 48.2 31.8 95.3



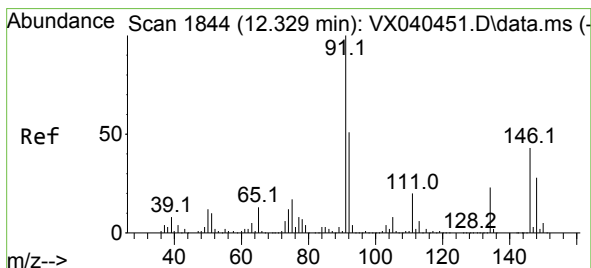
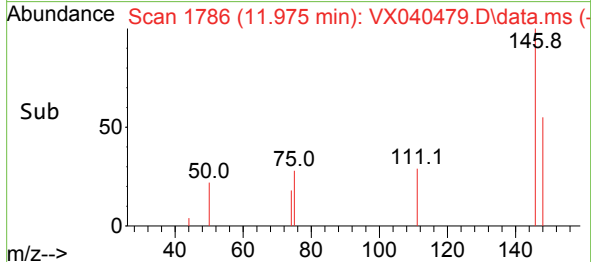
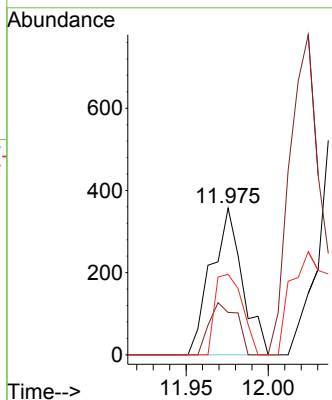


#88
1,4-Dichlorobenzene
Concen: 0.224 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. -0.067 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

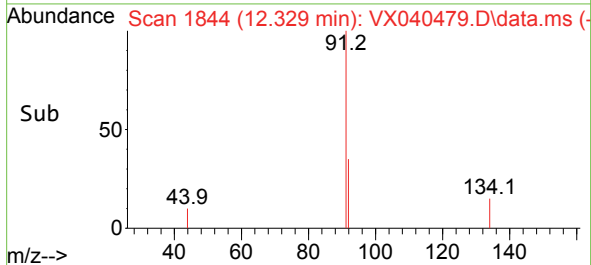
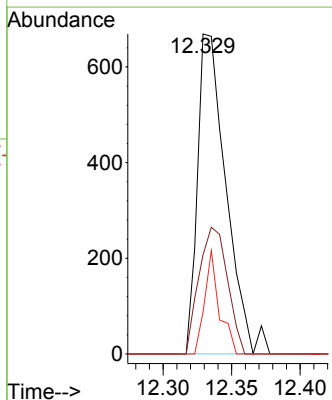
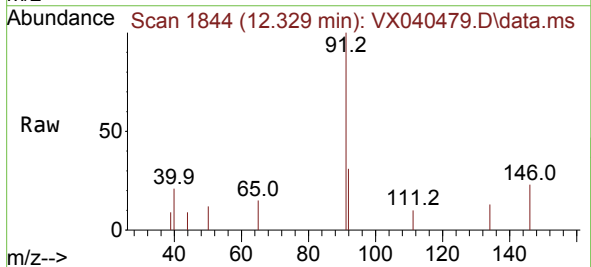


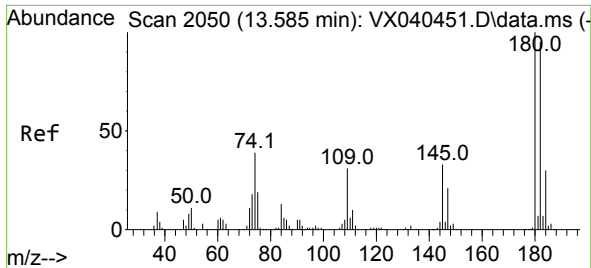
Tgt Ion:146 Resp: 471
Ion Ratio Lower Upper
146 100
111 31.4 21.3 63.7
148 48.2 31.8 95.4



#89
n-Butylbenzene
Concen: 0.259 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion: 91 Resp: 970
Ion Ratio Lower Upper
91 100
92 39.4 27.4 82.0
134 16.5 12.6 37.8

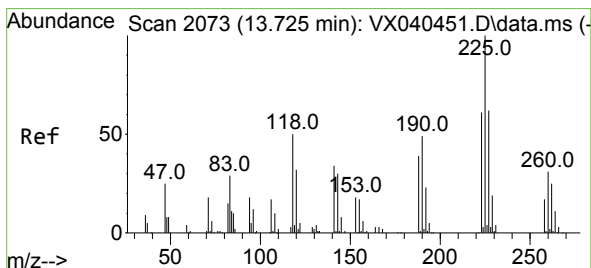
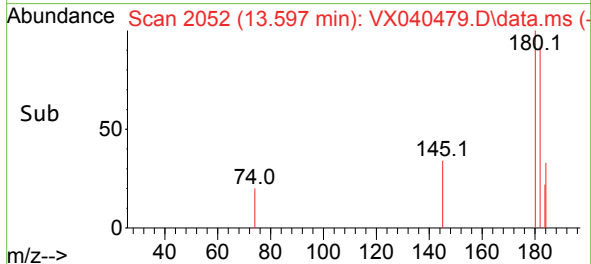
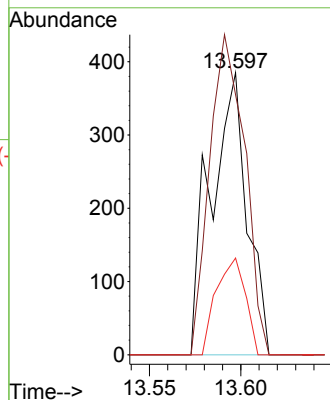
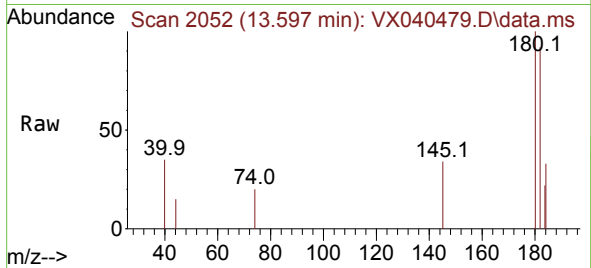




#93
1,2,4-Trichlorobenzene
Concen: 0.415 ug/l
RT: 13.597 min Scan# 2050
Delta R.T. 0.012 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

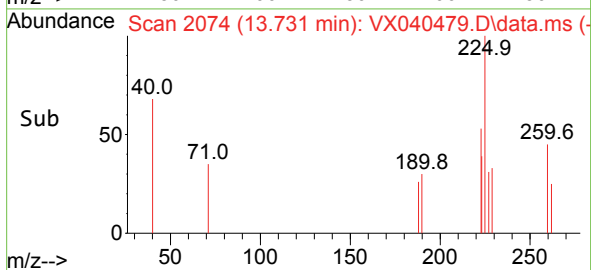
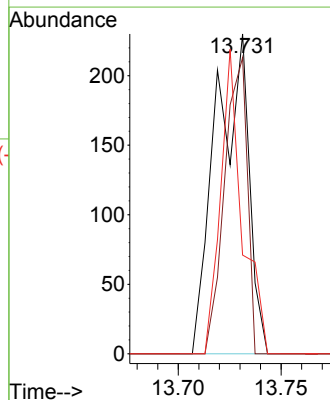
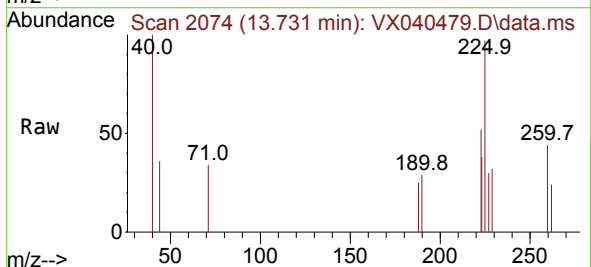
Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL

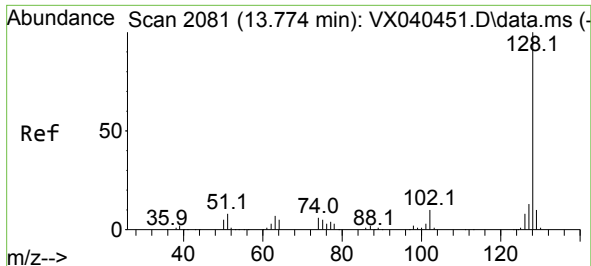
Tgt Ion:180 Resp: 533
Ion Ratio Lower Upper
180 100
182 109.9 48.3 144.8
145 27.4 18.0 54.0



#94
Hexachlorobutadiene
Concen: 0.488 ug/l
RT: 13.731 min Scan# 2074
Delta R.T. 0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

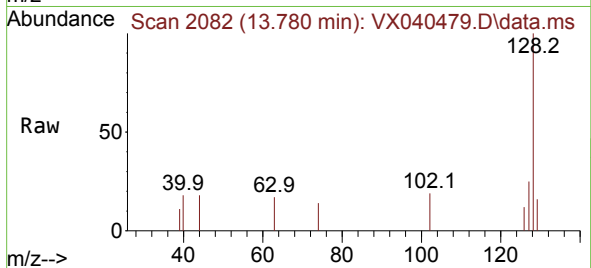
Tgt Ion:225 Resp: 256
Ion Ratio Lower Upper
225 100
223 64.1 31.1 93.2
227 62.5 32.5 97.5



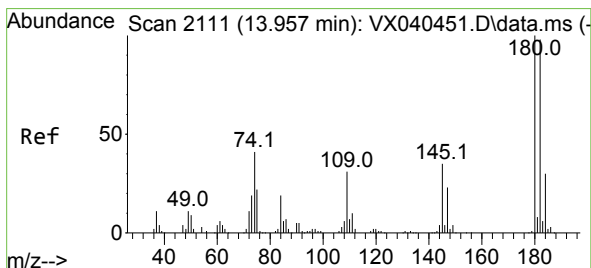
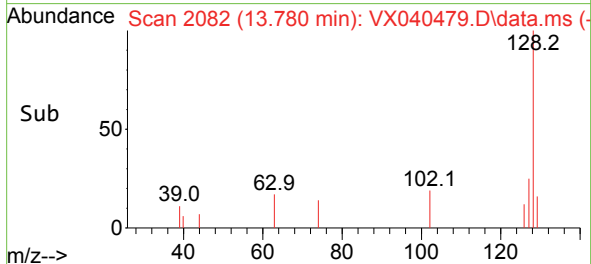
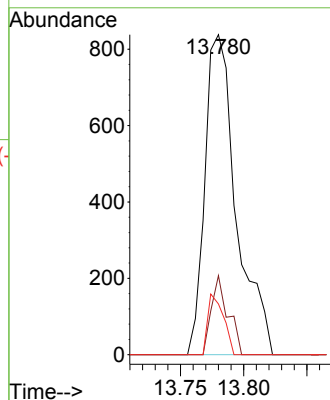


#95
Naphthalene
Concen: 0.353 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Instrument :
MSVOA_X
ClientSampleId :
TT180D1-20240221DL



Tgt Ion:128 Resp: 1446
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 9.5 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 0.384 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX040479.D
Acq: 27 Feb 2024 11:12

Tgt Ion:180 Resp: 468
Ion Ratio Lower Upper
180 100
182 93.8 46.9 140.6
145 27.8 17.8 53.5

