

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX083023\
 Data File : VX037397.D
 Acq On : 30 Aug 2023 18:32
 Operator : JC/MD
 Sample : 04201-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1716

Quant Time: Aug 31 02:28:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

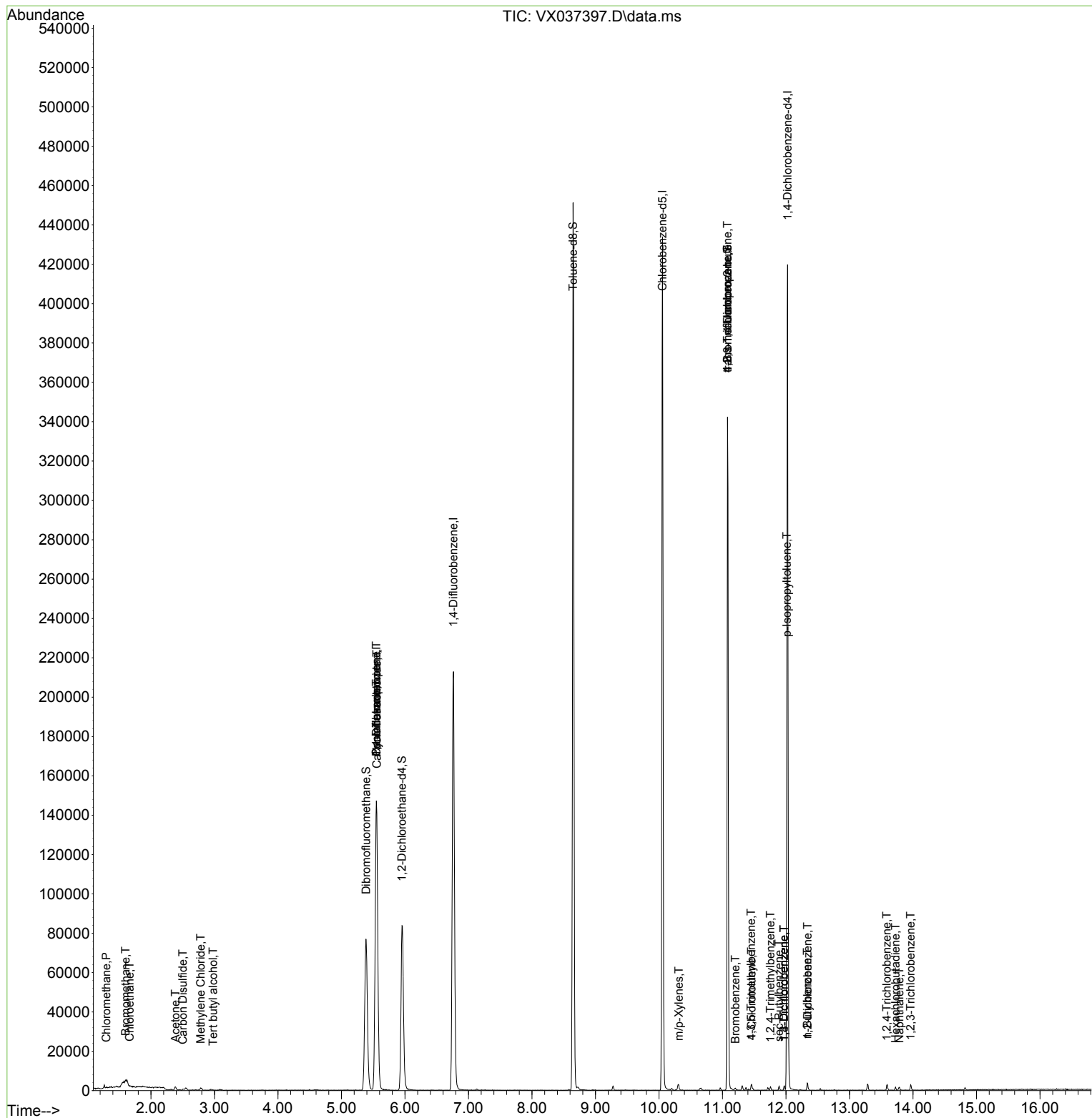
Internal Standards						
1) Pentafluorobenzene	5.550	168	140469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	229602	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	203577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	89921	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	84950	41.948	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	83.900%
35) Dibromofluoromethane	5.385	113	70312	46.240	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.480%
50) Toluene-d8	8.647	98	268732	48.720	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.440%
62) 4-Bromofluorobenzene	11.079	95	96881	44.694	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.380%
Target Compounds						
					Qvalue	
3) Chloromethane	1.295	50	307	0.215	ug/l #	43
5) Bromomethane	1.599	94	239	0.309	ug/l	88
6) Chloroethane	1.666	64	409	0.447	ug/l #	43
11) Tert butyl alcohol	2.977	59	144	0.303	ug/l #	78
16) Acetone	2.386	43	1820	2.297	ug/l	95
17) Carbon Disulfide	2.502	76	830	0.226	ug/l #	76
20) Methylene Chloride	2.782	84	761	0.430	ug/l #	64
31) Cyclohexane	5.550	56	2732	1.200	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	10813	5.005	ug/l #	51
38) Carbon Tetrachloride	5.556	117	14738	6.280	ug/l #	15
68) m/p-Xylenes	10.311	106	889	0.304	ug/l	94
76) 1,2,3-Trichloropropane	11.079	75	47759	24.939	ug/l #	39
77) Bromobenzene	11.201	156	330	0.207	ug/l	58
80) 1,3,5-Trimethylbenzene	11.451	105	1132	0.208	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.079	75	47759	69.656	ug/l #	5
82) 4-Chlorotoluene	11.457	91	1217	0.227	ug/l	97
84) 1,2,4-Trimethylbenzene	11.756	105	1133	0.206	ug/l	99
85) sec-Butylbenzene	11.890	105	1280	0.211	ug/l	92
86) p-Isopropyltoluene	12.012	119	1333	0.255	ug/l #	75
87) 1,3-Dichlorobenzene	11.969	146	826	0.276	ug/l	95
88) 1,4-Dichlorobenzene	11.969	146	826	0.268	ug/l	94
89) n-Butylbenzene	12.335	91	1347	0.311	ug/l	93
91) 1,2-Dichlorobenzene	12.341	146	596	0.204	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	1056	0.617	ug/l	89
94) Hexachlorobutadiene	13.725	225	344	0.520	ug/l	88
95) Naphthalene	13.786	128	1630	0.217	ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	834	0.490	ug/l	95

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

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Instrument :
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Quant Title : SW846 8260
QLast Update : Fri Aug 18 09:30:38 2023
Response via : Initial Calibration

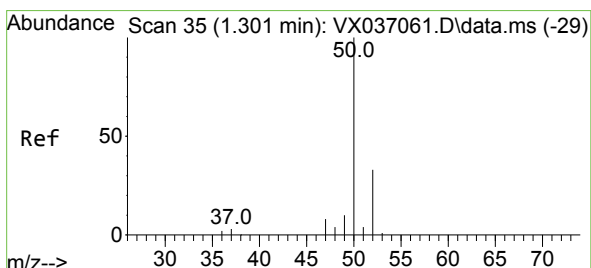
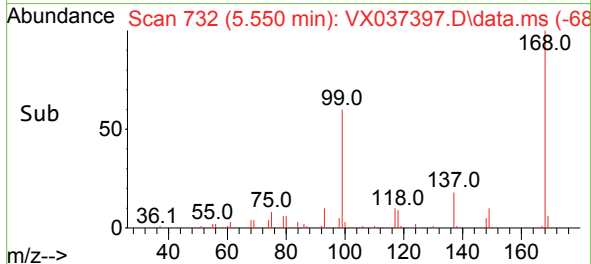
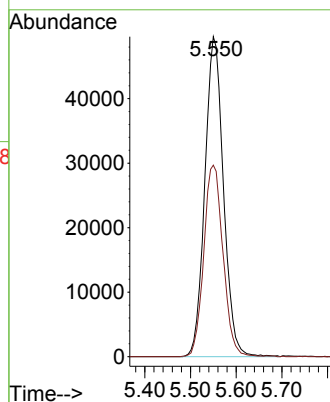
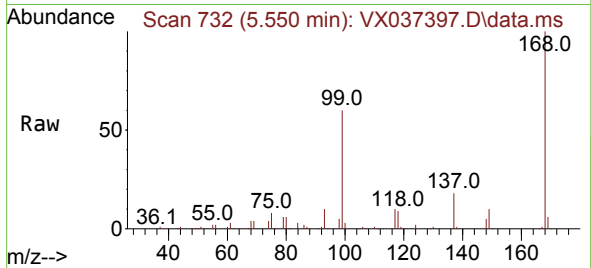




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

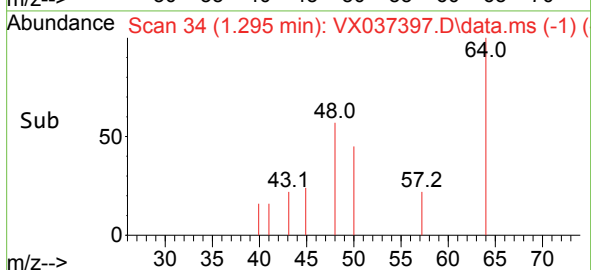
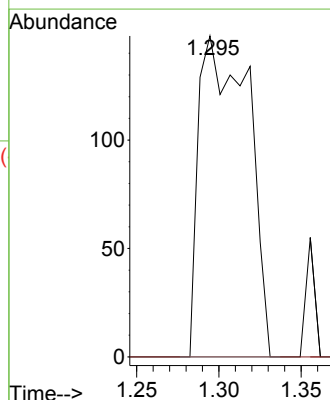
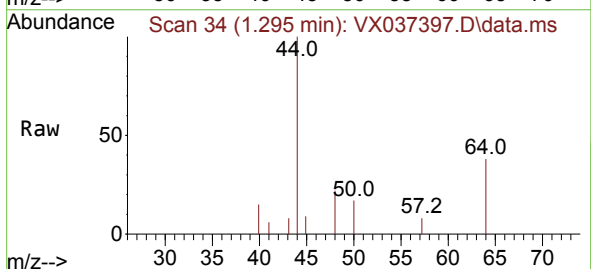
Instrument :
MSVOA_X
ClientSampleId :
1716

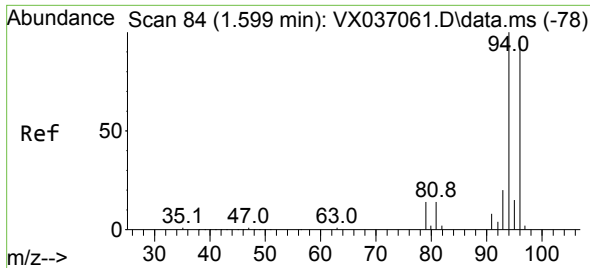
Tgt Ion:168 Resp: 140469
Ion Ratio Lower Upper
168 100
99 59.9 56.6 85.0



#3
Chloromethane
Concen: 0.215 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion: 50 Resp: 307
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#

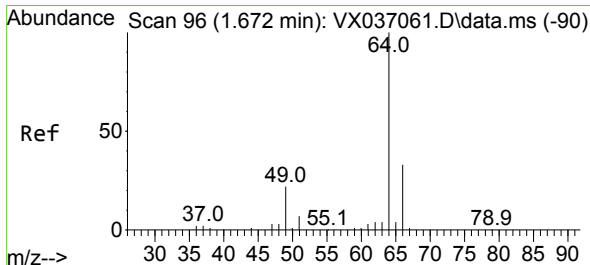
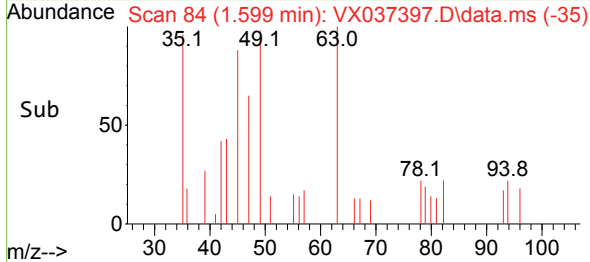
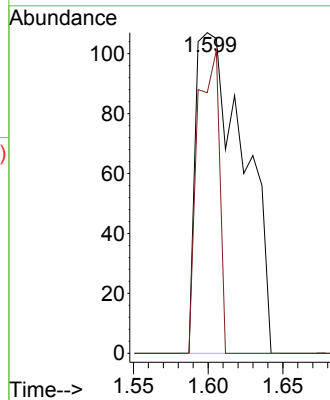
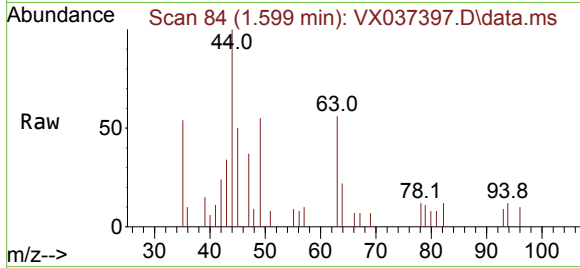




#5
Bromomethane
Concen: 0.309 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

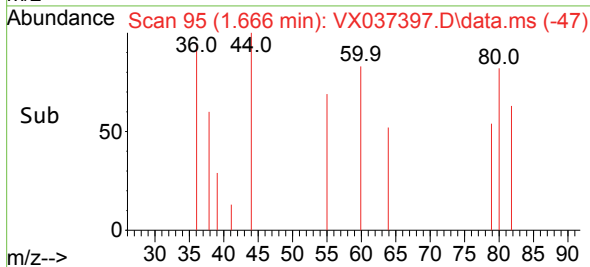
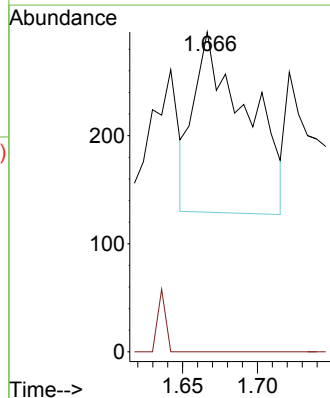
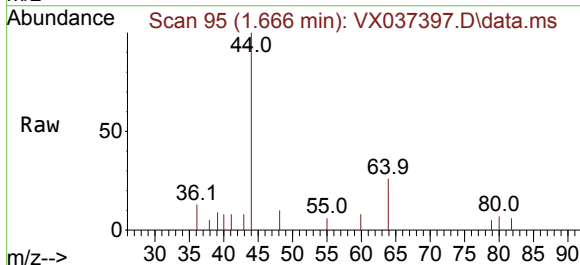
Instrument :
MSVOA_X
ClientSampleId :
1716

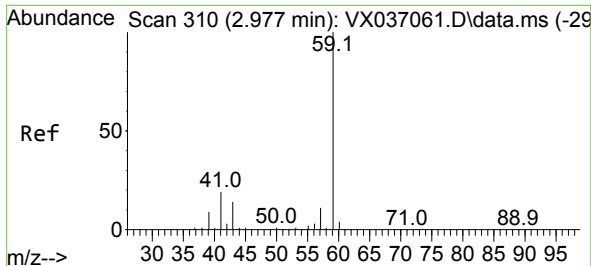
Tgt Ion: 94 Resp: 239
Ion Ratio Lower Upper
94 100
96 81.3 74.6 111.8



#6
Chloroethane
Concen: 0.447 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.006 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion: 64 Resp: 409
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#

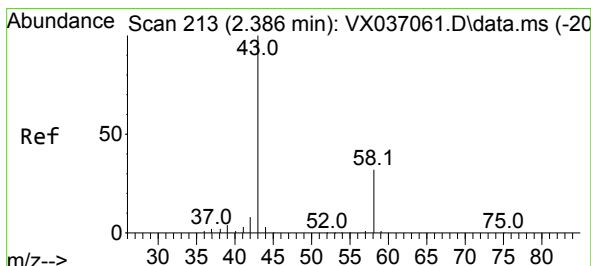
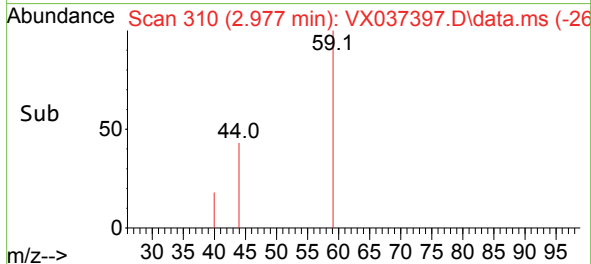
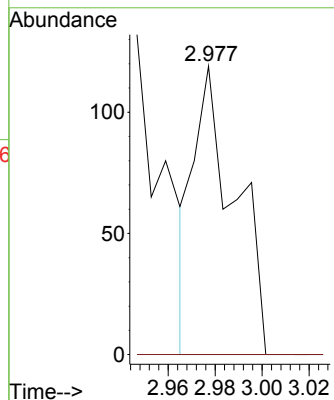
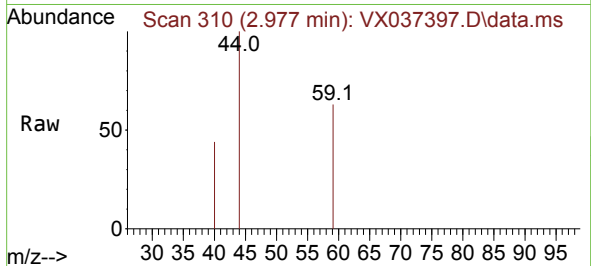




#11
Tert butyl alcohol
Concen: 0.303 ug/l
RT: 2.977 min Scan# 310
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

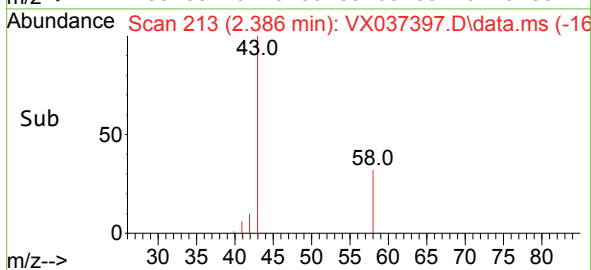
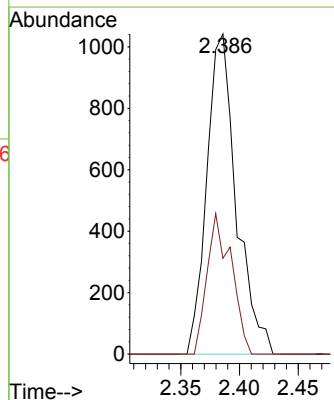
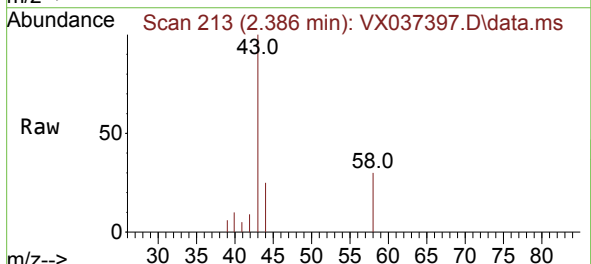
Instrument :
MSVOA_X
ClientSampleId :
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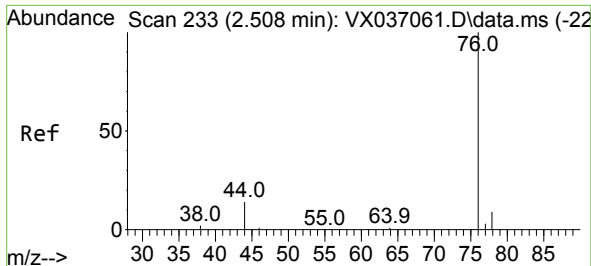
Tgt Ion: 59 Resp: 144
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



#16
Acetone
Concen: 2.297 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion: 43 Resp: 1820
Ion Ratio Lower Upper
43 100
58 29.9 21.9 32.9





#17

Carbon Disulfide

Concen: 0.226 ug/l

RT: 2.502 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

Instrument :

MSVOA_X

ClientSampleId :

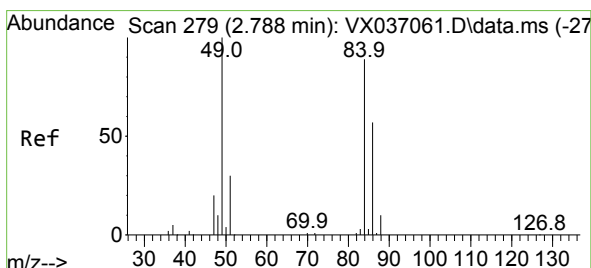
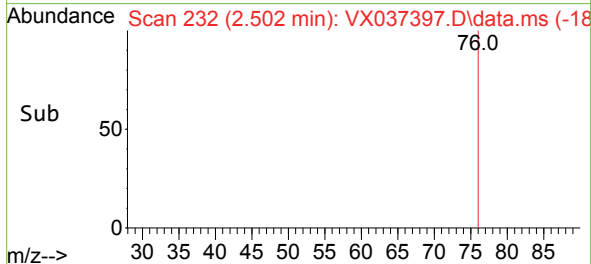
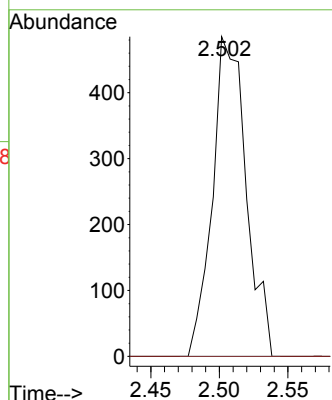
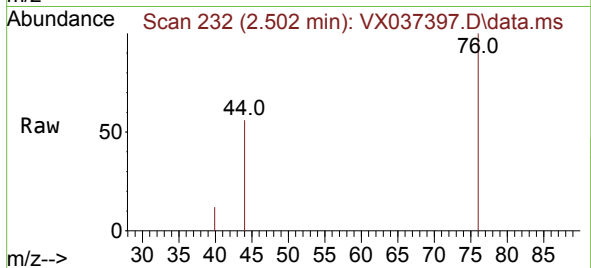
1716

Tgt Ion: 76 Resp: 830

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#20

Methylene Chloride

Concen: 0.430 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

Tgt Ion: 84 Resp: 761

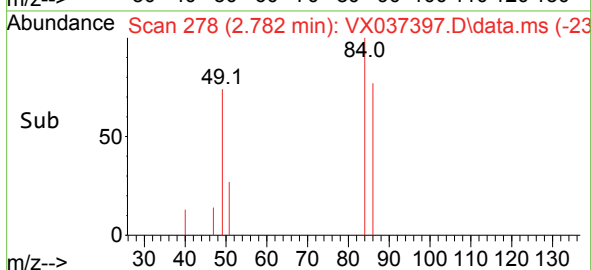
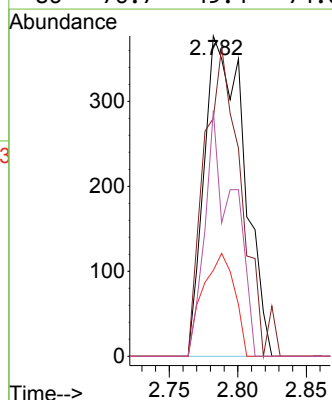
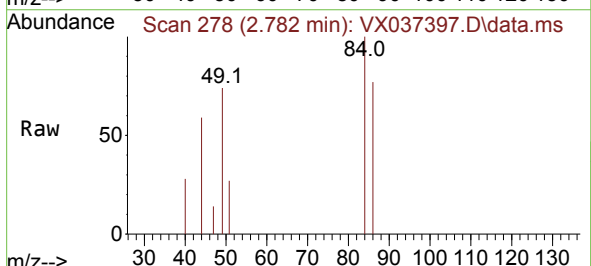
Ion Ratio Lower Upper

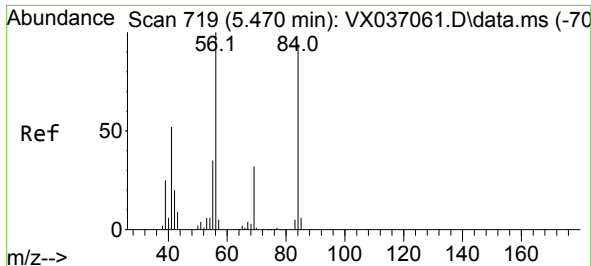
84 100

49 74.3 103.6 155.4#

51 26.8 33.8 50.6#

86 76.7 49.4 74.0#

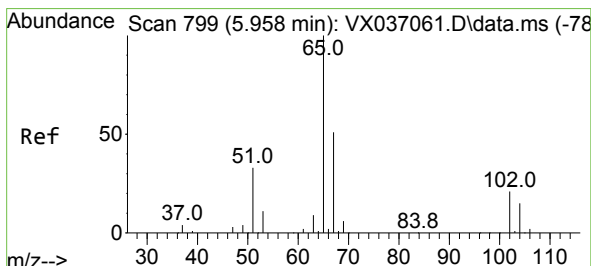
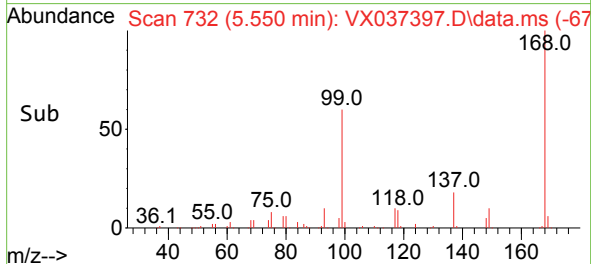
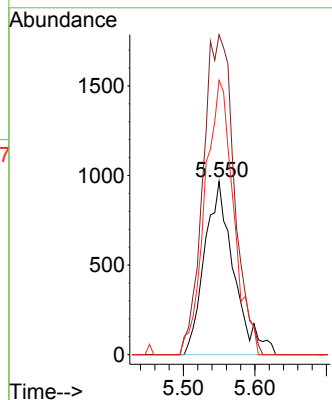
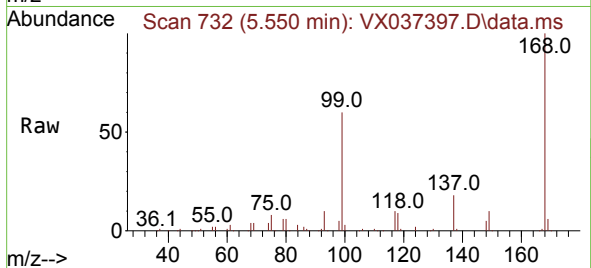




#31
Cyclohexane
Concen: 1.200 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

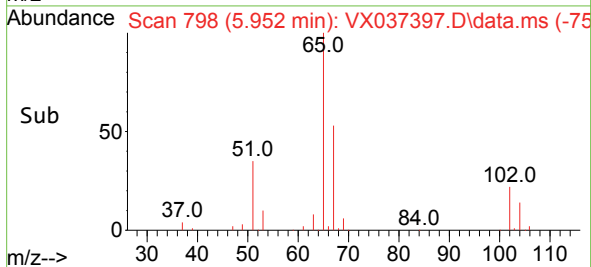
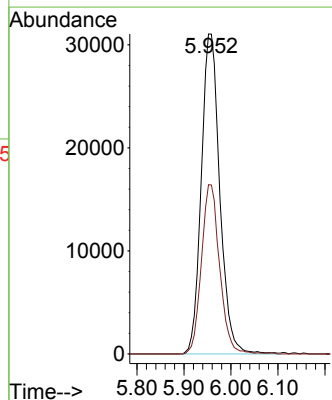
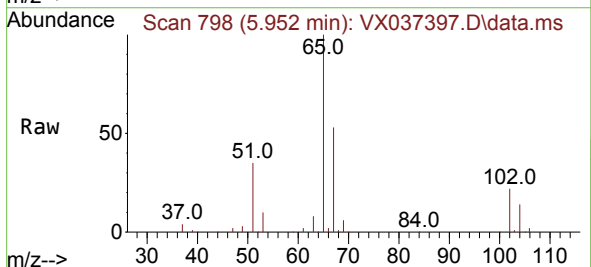
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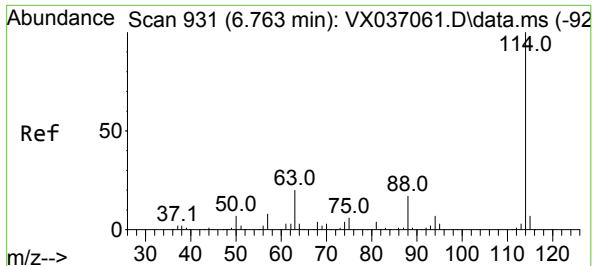
Tgt Ion: 56 Resp: 2732
Ion Ratio Lower Upper
56 100
69 184.9 23.4 35.2#
84 158.6 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 41.948 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion: 65 Resp: 84950
Ion Ratio Lower Upper
65 100
67 51.8 0.0 100.2

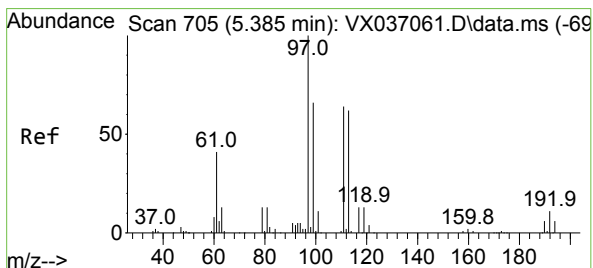
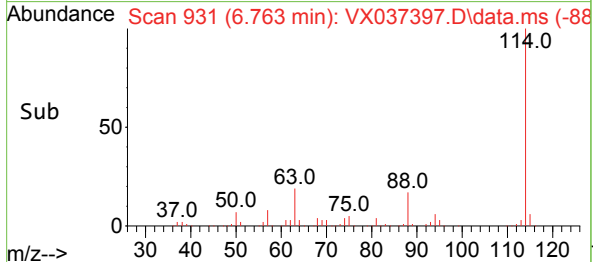
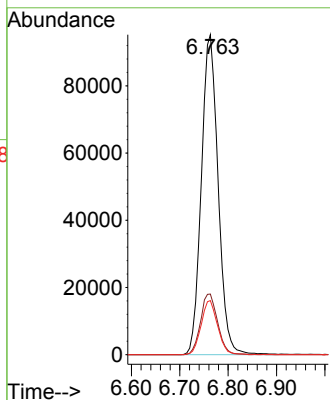
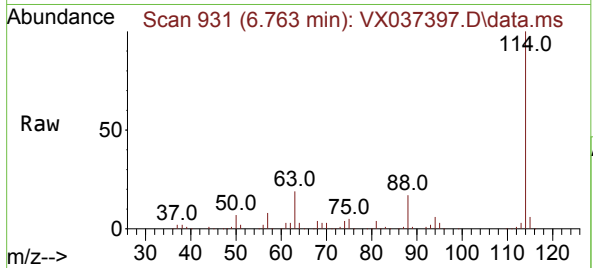




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

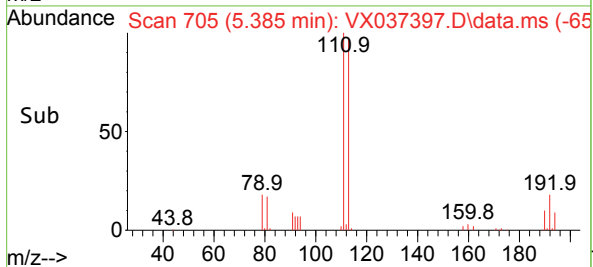
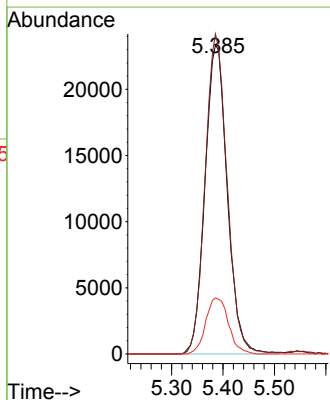
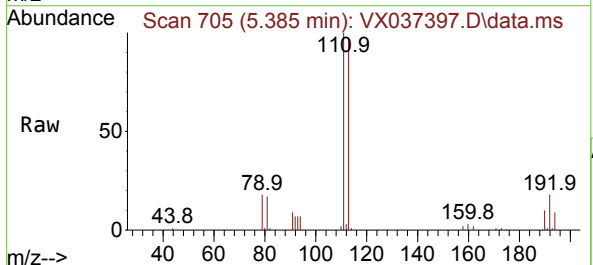
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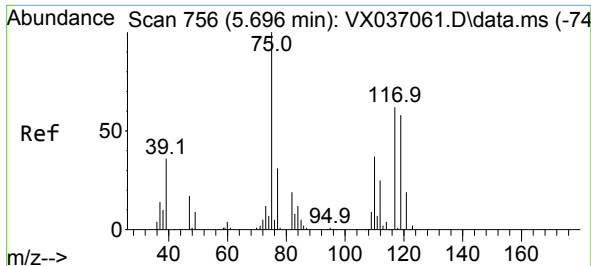
Tgt Ion:114 Resp: 229602
Ion Ratio Lower Upper
114 100
63 19.0 0.0 45.0
88 16.9 0.0 36.6



#35
Dibromofluoromethane
Concen: 46.240 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion:113 Resp: 70312
Ion Ratio Lower Upper
113 100
111 102.1 82.9 124.3
192 18.4 13.3 19.9

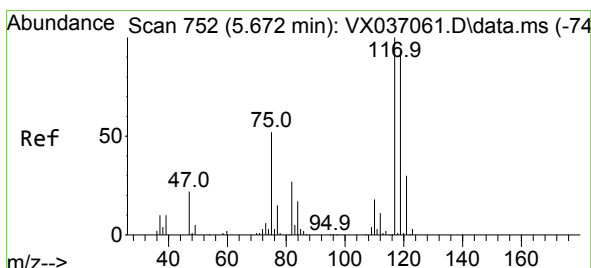
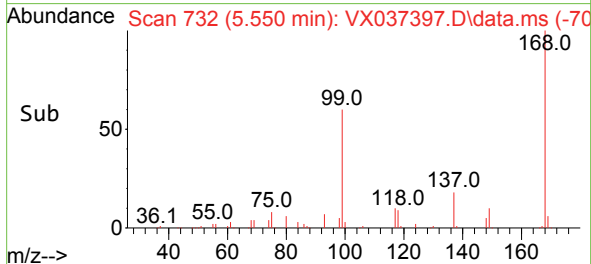
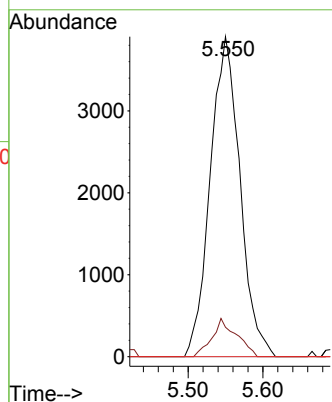
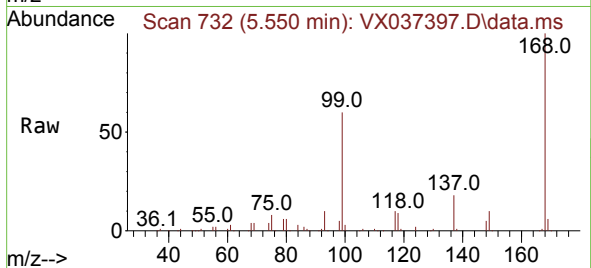




#36
1,1-Dichloropropene
Concen: 5.005 ug/l
RT: 5.550 min Scan# 716
Delta R.T. -0.146 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

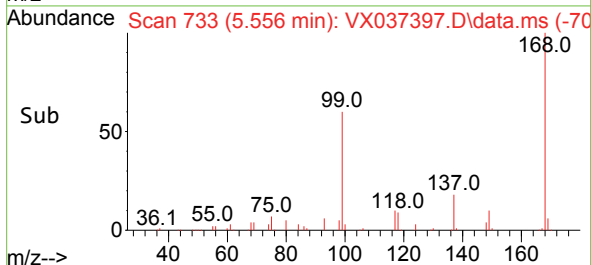
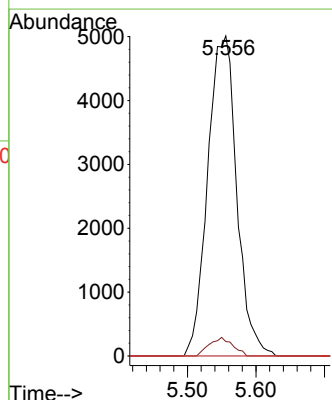
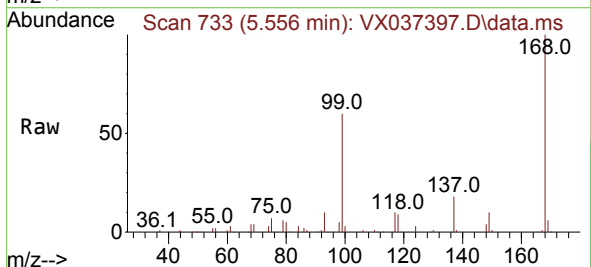
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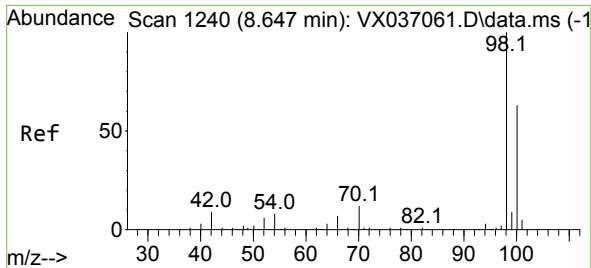
Tgt Ion: 75 Resp: 10813
Ion Ratio Lower Upper
75 100
110 9.8 17.0 50.9#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 6.280 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.116 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion: 117 Resp: 14738
Ion Ratio Lower Upper
117 100
119 4.5 78.2 117.2#
121 0.0 24.4 36.6#

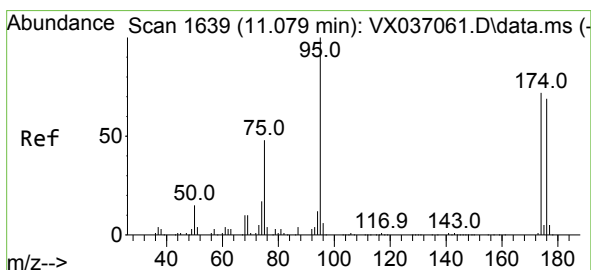
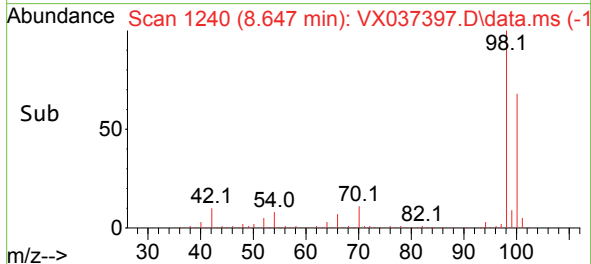
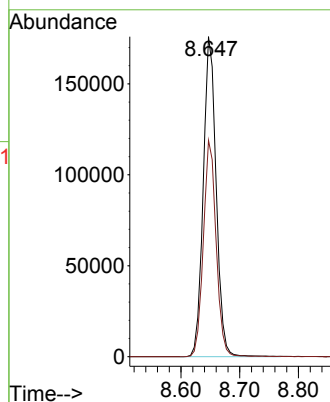
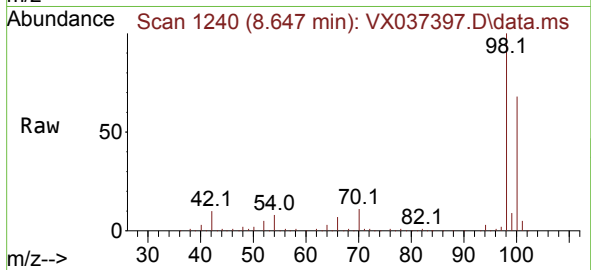




#50
Toluene-d8
Concen: 48.720 ug/l
RT: 8.647 min Scan# 11716
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

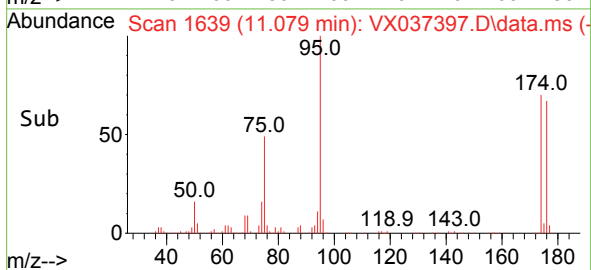
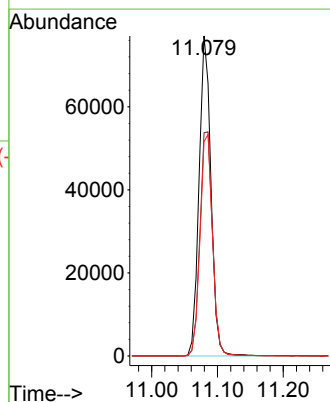
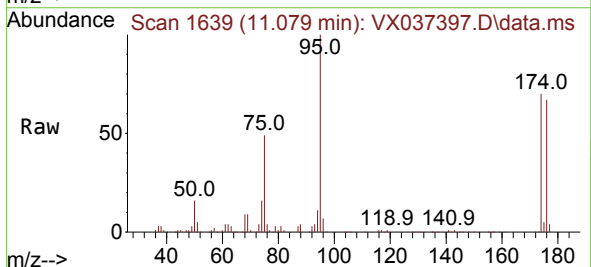
Instrument :
MSVOA_X
ClientSampleId :
1716

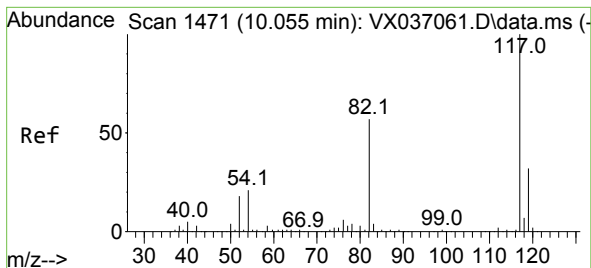
Tgt Ion: 98 Resp: 268732
Ion Ratio Lower Upper
98 100
100 67.0 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 44.694 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion: 95 Resp: 96881
Ion Ratio Lower Upper
95 100
174 74.3 0.0 135.6
176 72.2 0.0 131.0

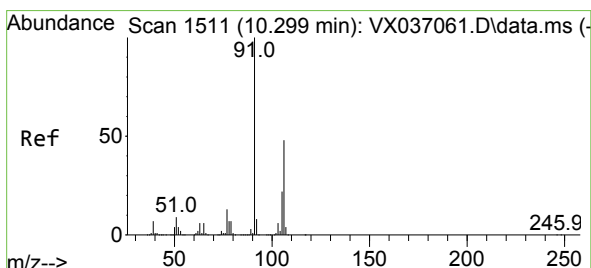
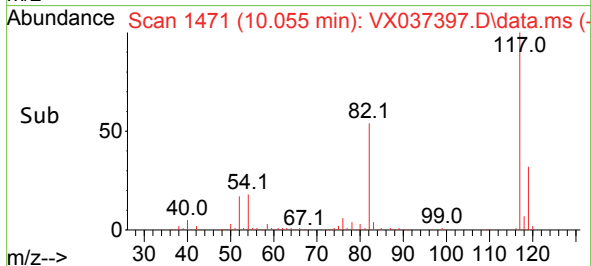
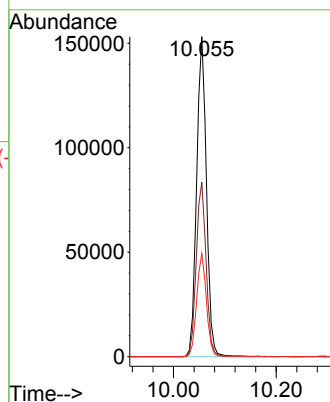
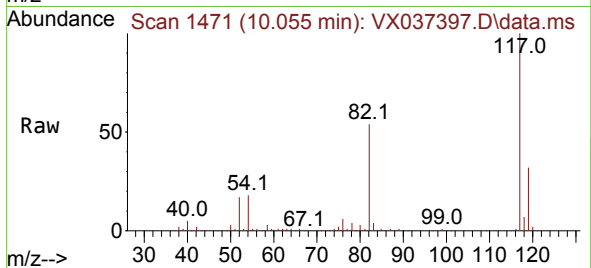




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

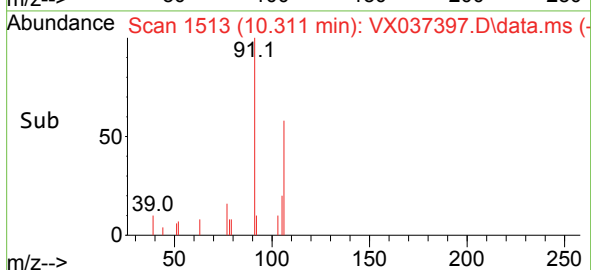
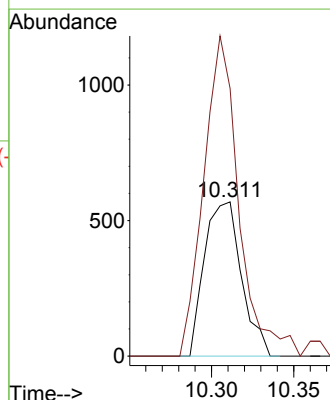
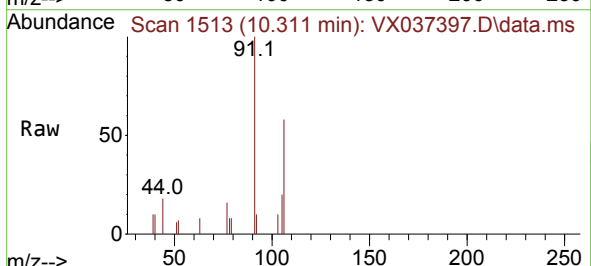
Instrument :
MSVOA_X
ClientSampleId :
1716

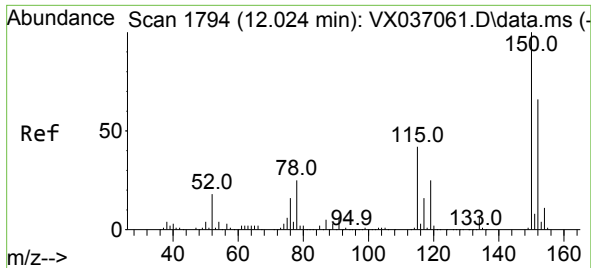
Tgt Ion:117 Resp: 203577
Ion Ratio Lower Upper
117 100
82 54.5 46.2 69.4
119 32.2 25.5 38.3



#68
m/p-Xylenes
Concen: 0.304 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion:106 Resp: 889
Ion Ratio Lower Upper
106 100
91 197.4 165.5 248.3

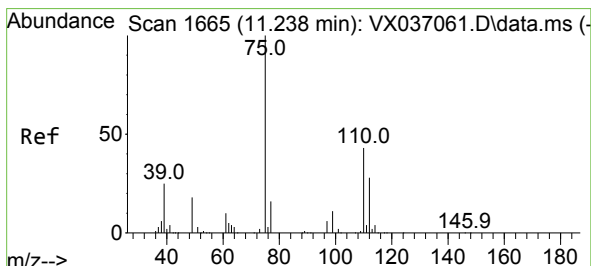
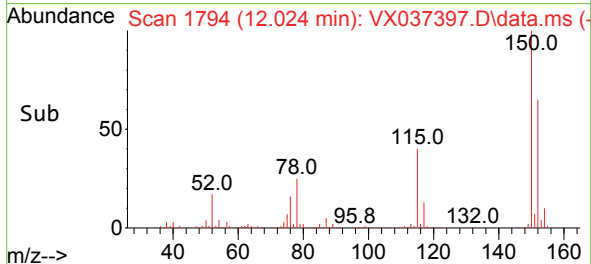
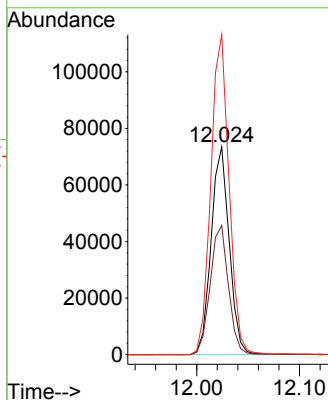
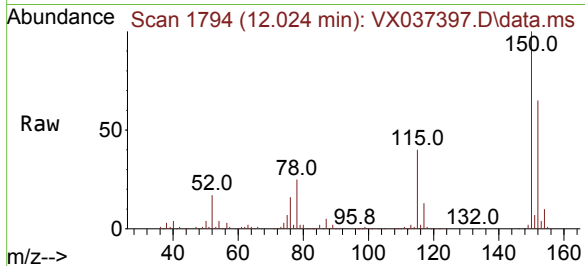




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 1716
 Delta R.T. 0.000 min
 Lab File: VX037397.D
 Acq: 30 Aug 2023 18:32

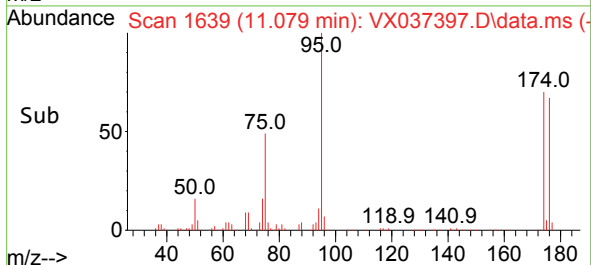
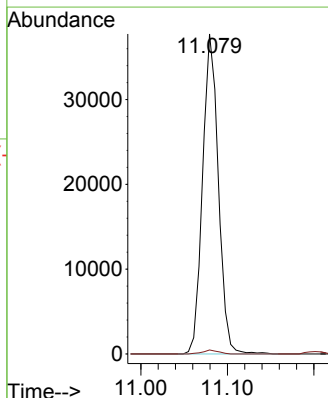
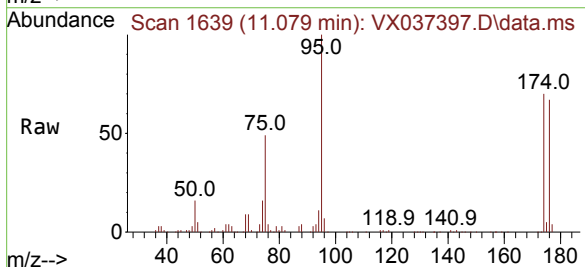
Instrument :
 MSVOA_X
 ClientSampleId :
 1716

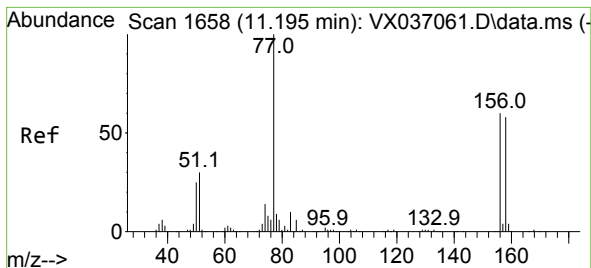
Tgt Ion:152 Resp: 89921
 Ion Ratio Lower Upper
 152 100
 115 63.1 43.3 129.9
 150 155.6 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 24.939 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX037397.D
 Acq: 30 Aug 2023 18:32

Tgt Ion: 75 Resp: 47759
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.1 57.5#





#77

Bromobenzene

Concen: 0.207 ug/l

RT: 11.201 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

Instrument :

MSVOA_X

ClientSampleId :

1716

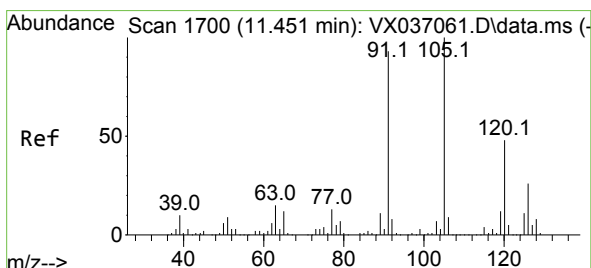
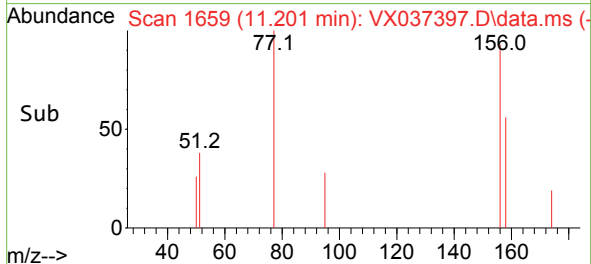
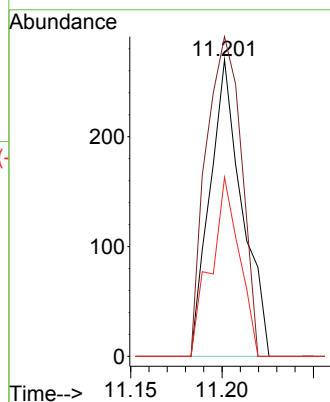
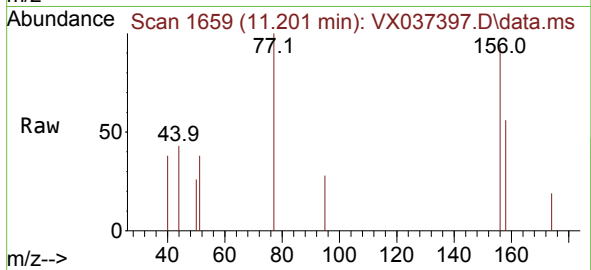
Tgt Ion:156 Resp: 330

Ion Ratio Lower Upper

156 100

77 118.5 88.4 265.3

158 53.6 48.0 144.0



#80

1,3,5-Trimethylbenzene

Concen: 0.208 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX037397.D

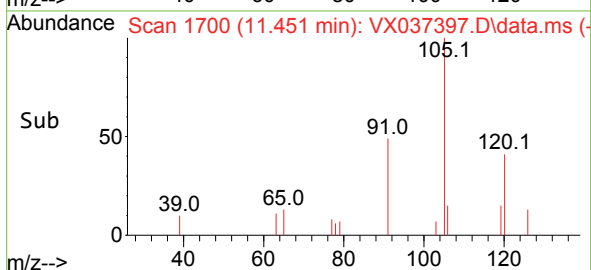
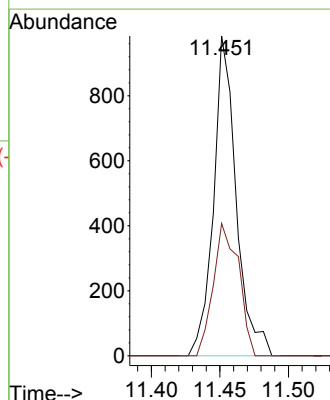
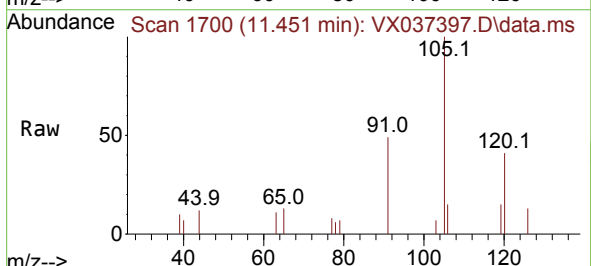
Acq: 30 Aug 2023 18:32

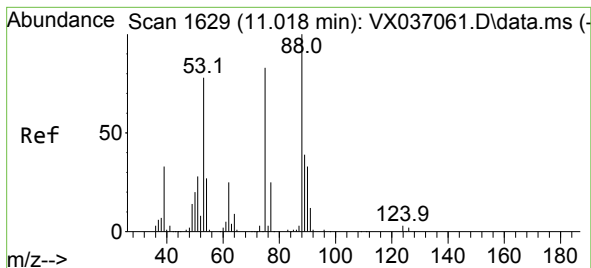
Tgt Ion:105 Resp: 1132

Ion Ratio Lower Upper

105 100

120 46.1 24.1 72.3

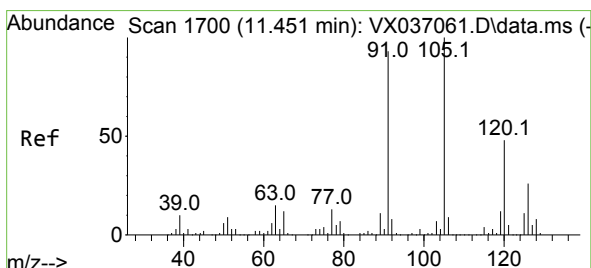
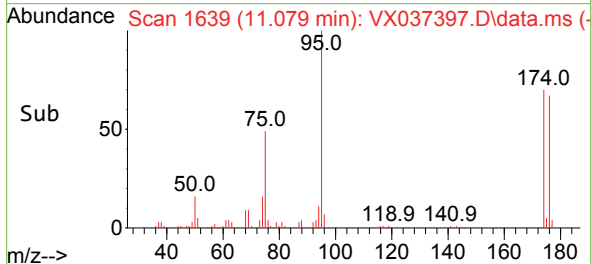
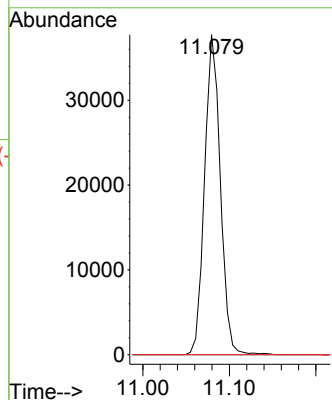
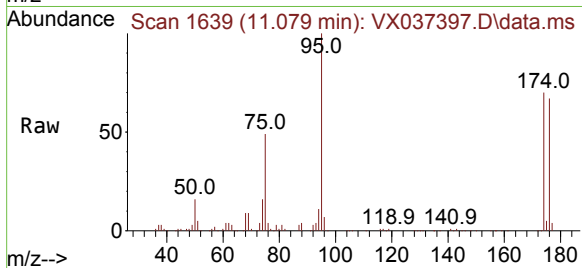




#81
trans-1,4-Dichloro-2-butene
Concen: 69.656 ug/l
RT: 11.079 min Scan# 1716
Delta R.T. 0.061 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

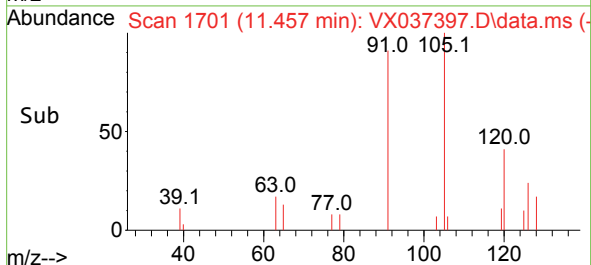
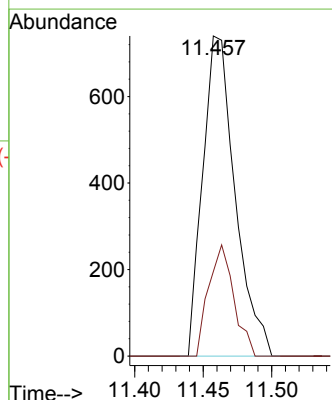
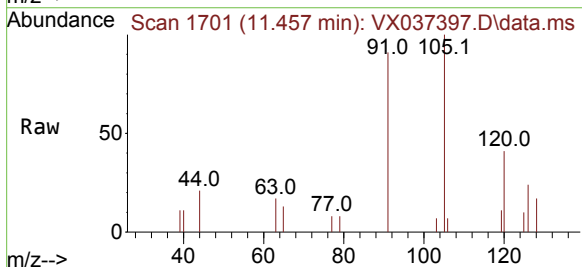
Instrument :
MSVOA_X
ClientSampleId :
1716

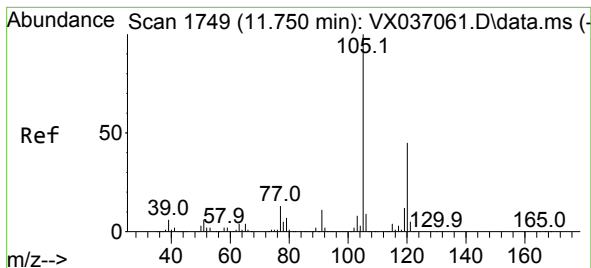
Tgt Ion: 75 Resp: 47759
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#82
4-Chlorotoluene
Concen: 0.227 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX037397.D
Acq: 30 Aug 2023 18:32

Tgt Ion: 91 Resp: 1217
Ion Ratio Lower Upper
91 100
126 27.0 14.2 42.6





#84

1,2,4-Trimethylbenzene

Concen: 0.206 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

Instrument :

MSVOA_X

ClientSampleId :

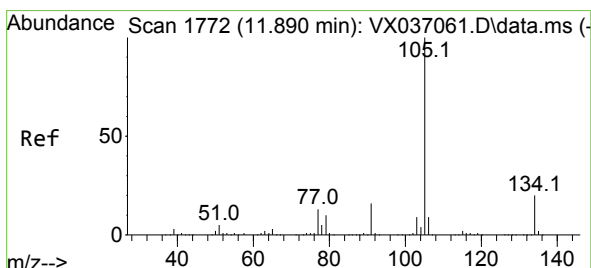
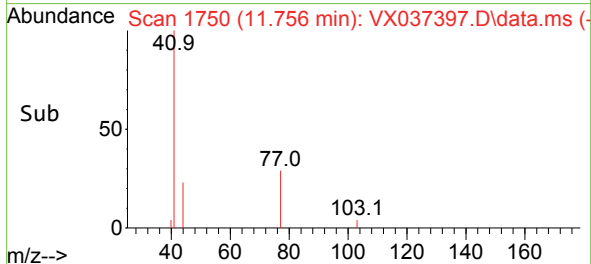
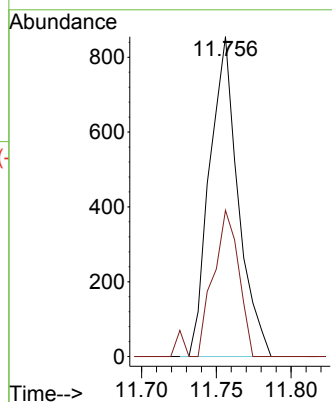
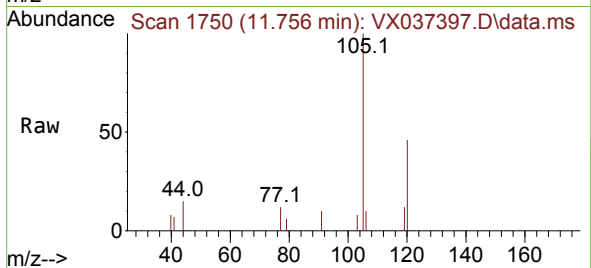
1716

Tgt Ion:105 Resp: 1133

Ion Ratio Lower Upper

105 100

120 42.7 21.2 63.6



#85

sec-Butylbenzene

Concen: 0.211 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX037397.D

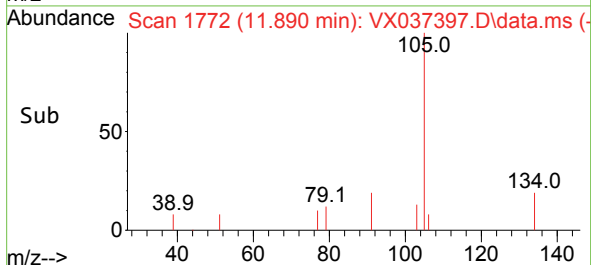
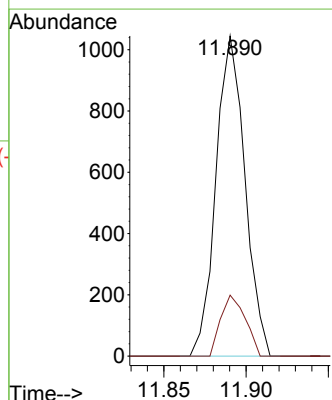
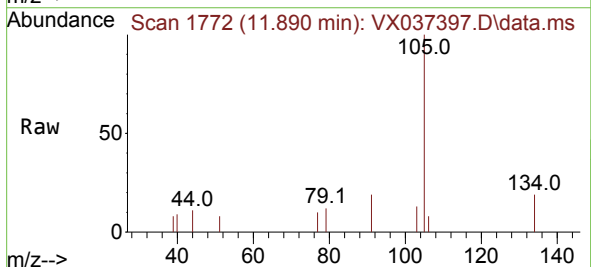
Acq: 30 Aug 2023 18:32

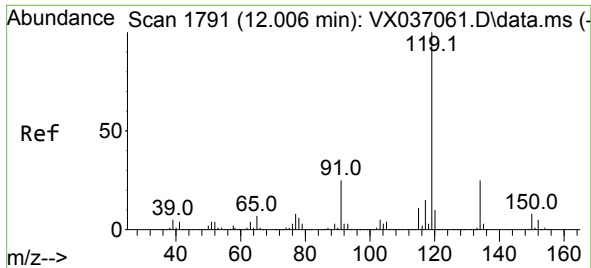
Tgt Ion:105 Resp: 1280

Ion Ratio Lower Upper

105 100

134 16.2 9.8 29.4

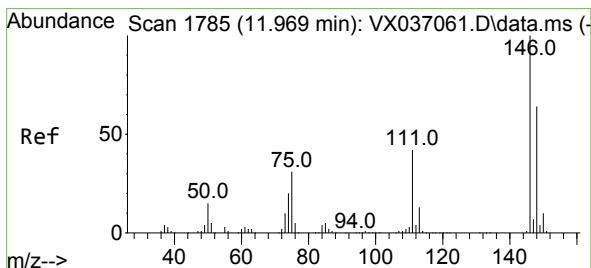
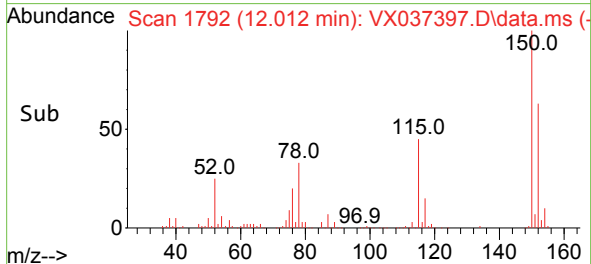
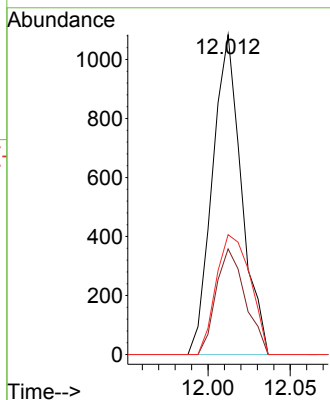
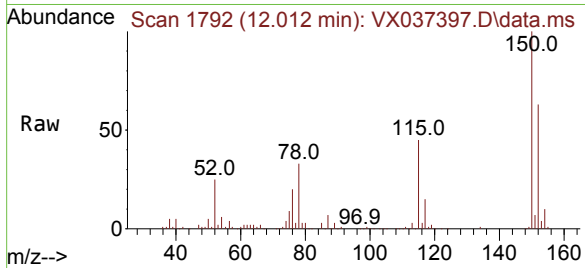




#86
 p-Isopropyltoluene
 Concen: 0.255 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.006 min
 Lab File: VX037397.D
 Acq: 30 Aug 2023 18:32

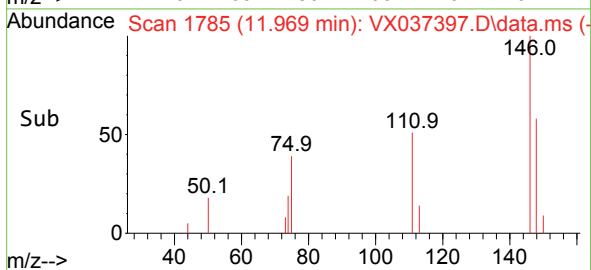
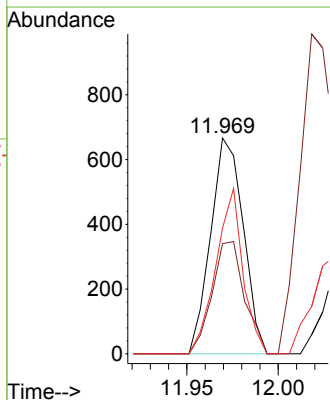
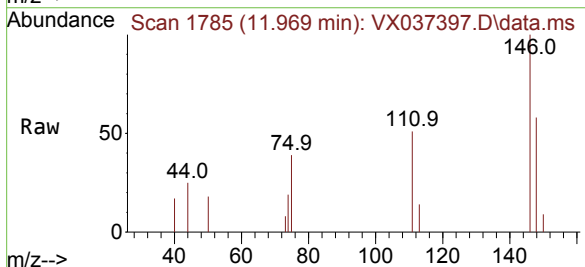
Instrument :
 MSVOA_X
 ClientSampleId :
 1716

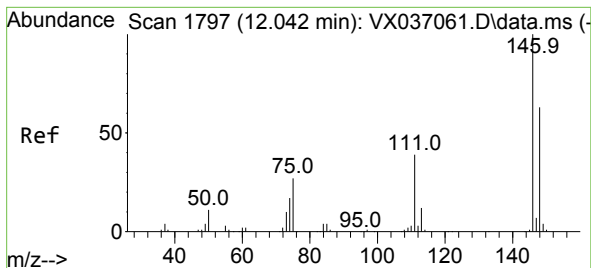
Tgt Ion:119 Resp: 1333
 Ion Ratio Lower Upper
 119 100
 134 33.2 12.8 38.3
 91 44.0 13.1 39.3#



#87
 1,3-Dichlorobenzene
 Concen: 0.276 ug/l
 RT: 11.969 min Scan# 1785
 Delta R.T. 0.000 min
 Lab File: VX037397.D
 Acq: 30 Aug 2023 18:32

Tgt Ion:146 Resp: 826
 Ion Ratio Lower Upper
 146 100
 111 51.8 22.1 66.1
 148 63.4 31.8 95.3





#88

1,4-Dichlorobenzene

Concen: 0.268 ug/l

RT: 11.969 min Scan# 1716

Delta R.T. -0.073 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

Instrument :

MSVOA_X

ClientSampleId :

1716

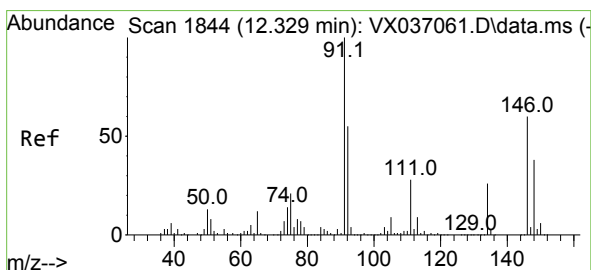
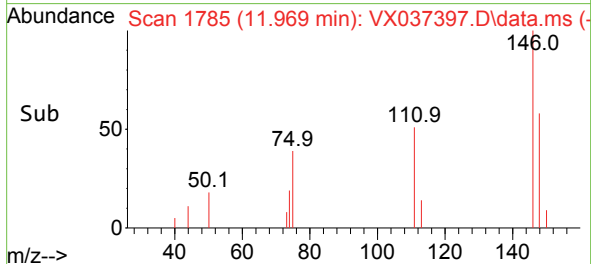
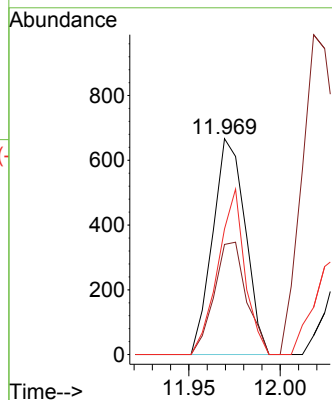
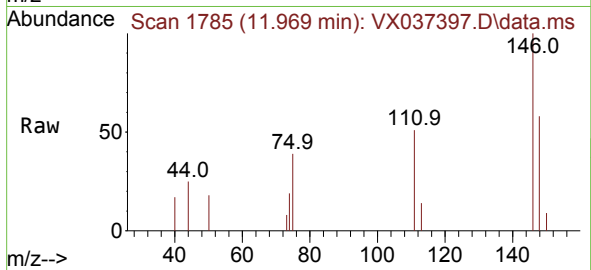
Tgt Ion:146 Resp: 826

Ion Ratio Lower Upper

146 100

111 51.8 21.3 63.7

148 63.4 31.8 95.4



#89

n-Butylbenzene

Concen: 0.311 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

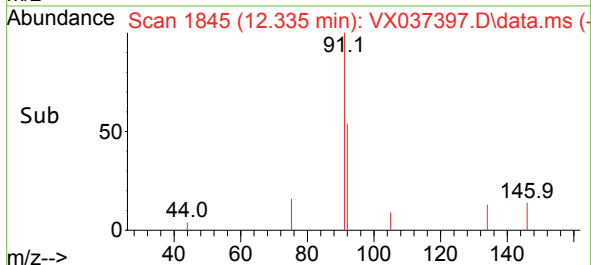
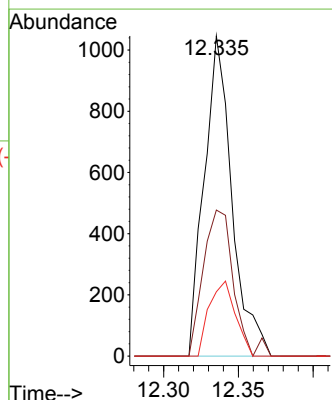
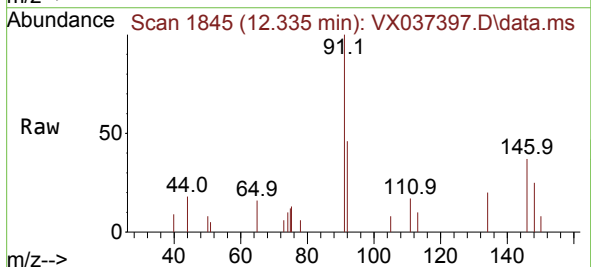
Tgt Ion: 91 Resp: 1347

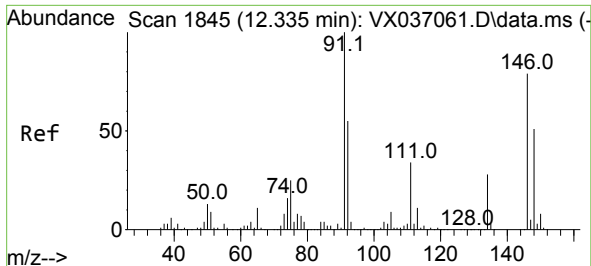
Ion Ratio Lower Upper

91 100

92 49.7 27.4 82.0

134 22.1 12.6 37.8

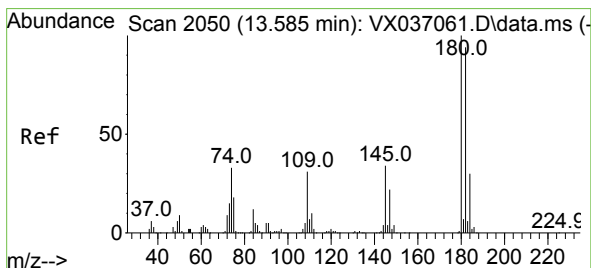
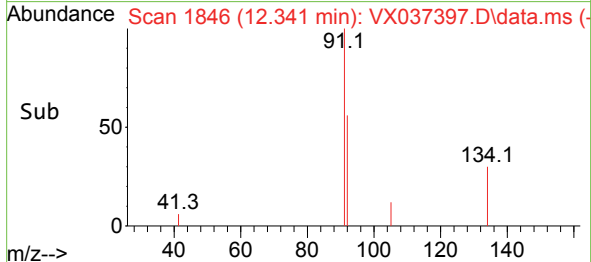
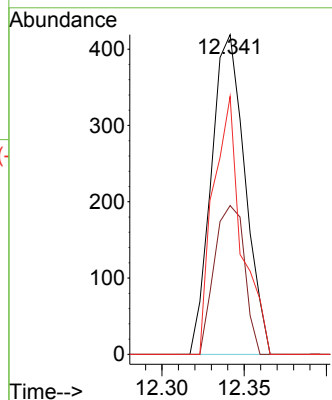
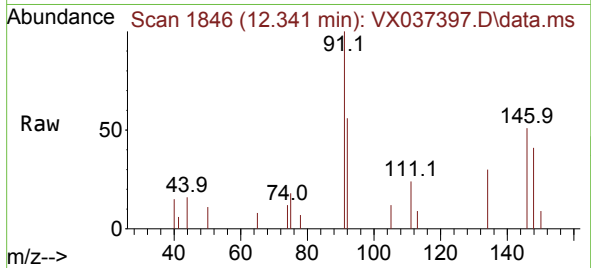




#91
 1,2-Dichlorobenzene
 Concen: 0.204 ug/l
 RT: 12.341 min Scan# 1846
 Delta R.T. 0.006 min
 Lab File: VX037397.D
 Acq: 30 Aug 2023 18:32

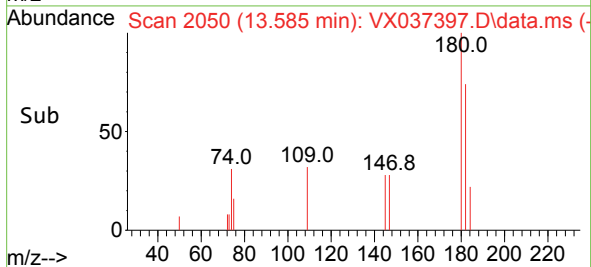
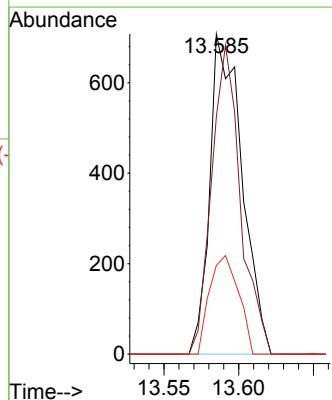
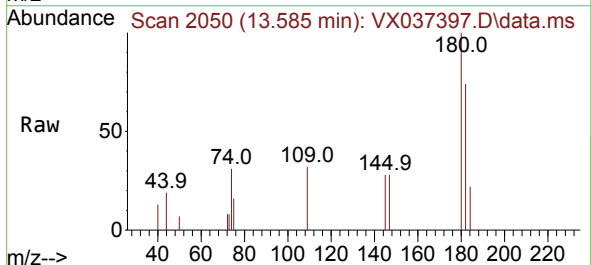
Instrument :
 MSVOA_X
 ClientSampleId :
 1716

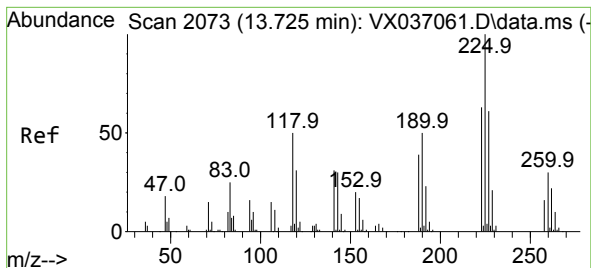
Tgt Ion:146 Resp: 596
 Ion Ratio Lower Upper
 146 100
 111 41.8 22.4 67.0
 148 68.1 31.6 95.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.617 ug/l
 RT: 13.585 min Scan# 2050
 Delta R.T. 0.000 min
 Lab File: VX037397.D
 Acq: 30 Aug 2023 18:32

Tgt Ion:180 Resp: 1056
 Ion Ratio Lower Upper
 180 100
 182 86.7 48.3 144.8
 145 27.8 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.520 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

Instrument :

MSVOA_X

ClientSampleId :

1716

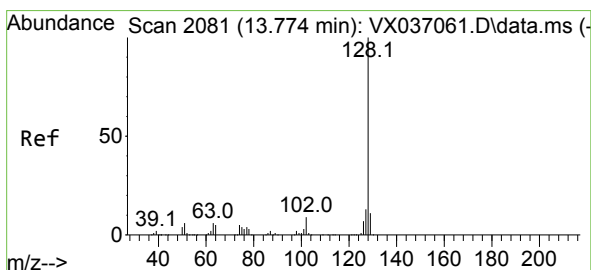
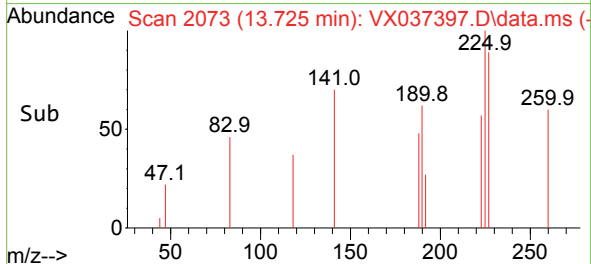
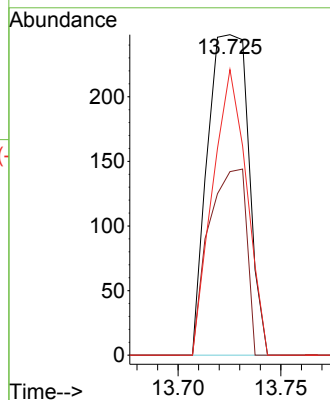
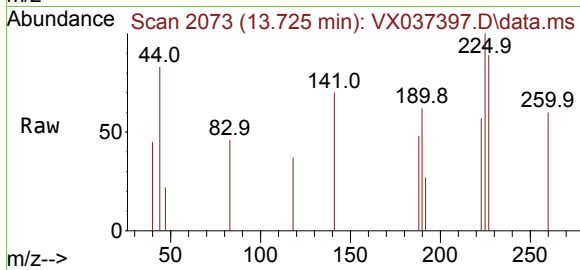
Tgt Ion:225 Resp: 344

Ion Ratio Lower Upper

225 100

223 53.2 31.1 93.2

227 74.1 32.5 97.5



#95

Naphthalene

Concen: 0.217 ug/l

RT: 13.786 min Scan# 2083

Delta R.T. 0.012 min

Lab File: VX037397.D

Acq: 30 Aug 2023 18:32

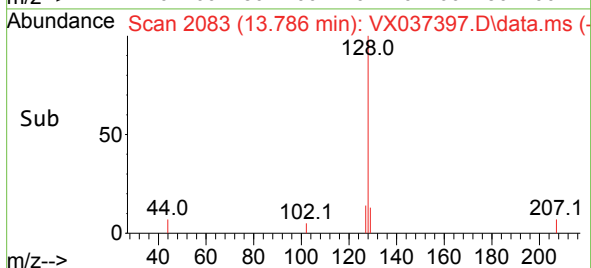
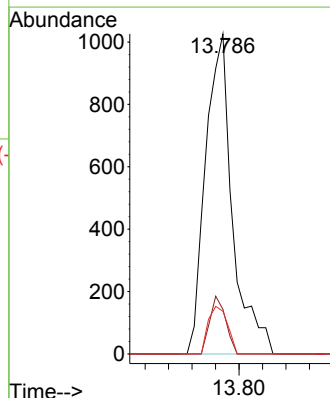
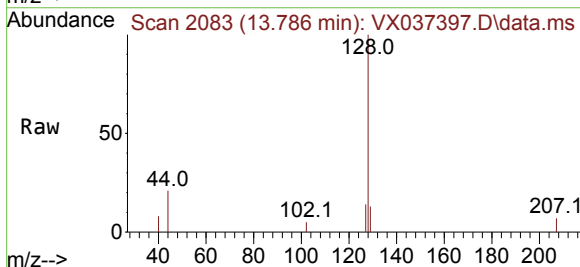
Tgt Ion:128 Resp: 1630

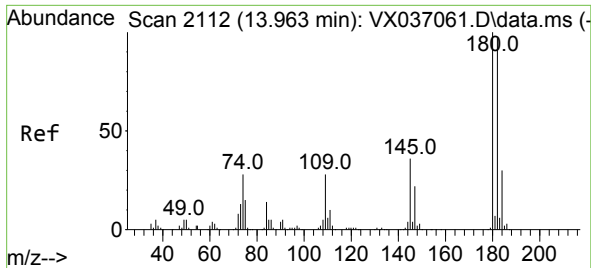
Ion Ratio Lower Upper

128 100

127 10.7 10.3 15.5

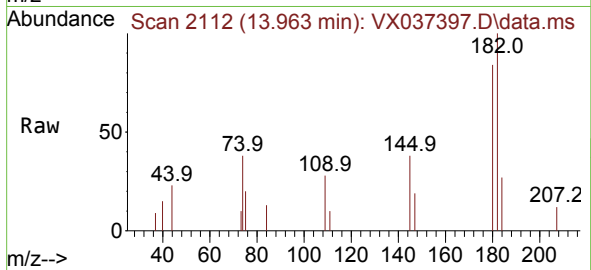
129 10.6 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.490 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. 0.000 min
 Lab File: VX037397.D
 Acq: 30 Aug 2023 18:32

Instrument :
 MSVOA_X
 ClientSampleId :
 1716



Tgt Ion:	180	Resp:	834
Ion	Ratio	Lower	Upper
180	100		
182	97.4	46.9	140.6
145	41.4	17.8	53.5

