

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072722\
 Data File : VX030236.D
 Acq On : 27 Jul 2022 17:02
 Operator : JC/MD
 Sample : N3898-02 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 61422-A

Quant Time: Jul 28 05:52:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 25 16:49:17 2022
 Response via : Initial Calibration

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

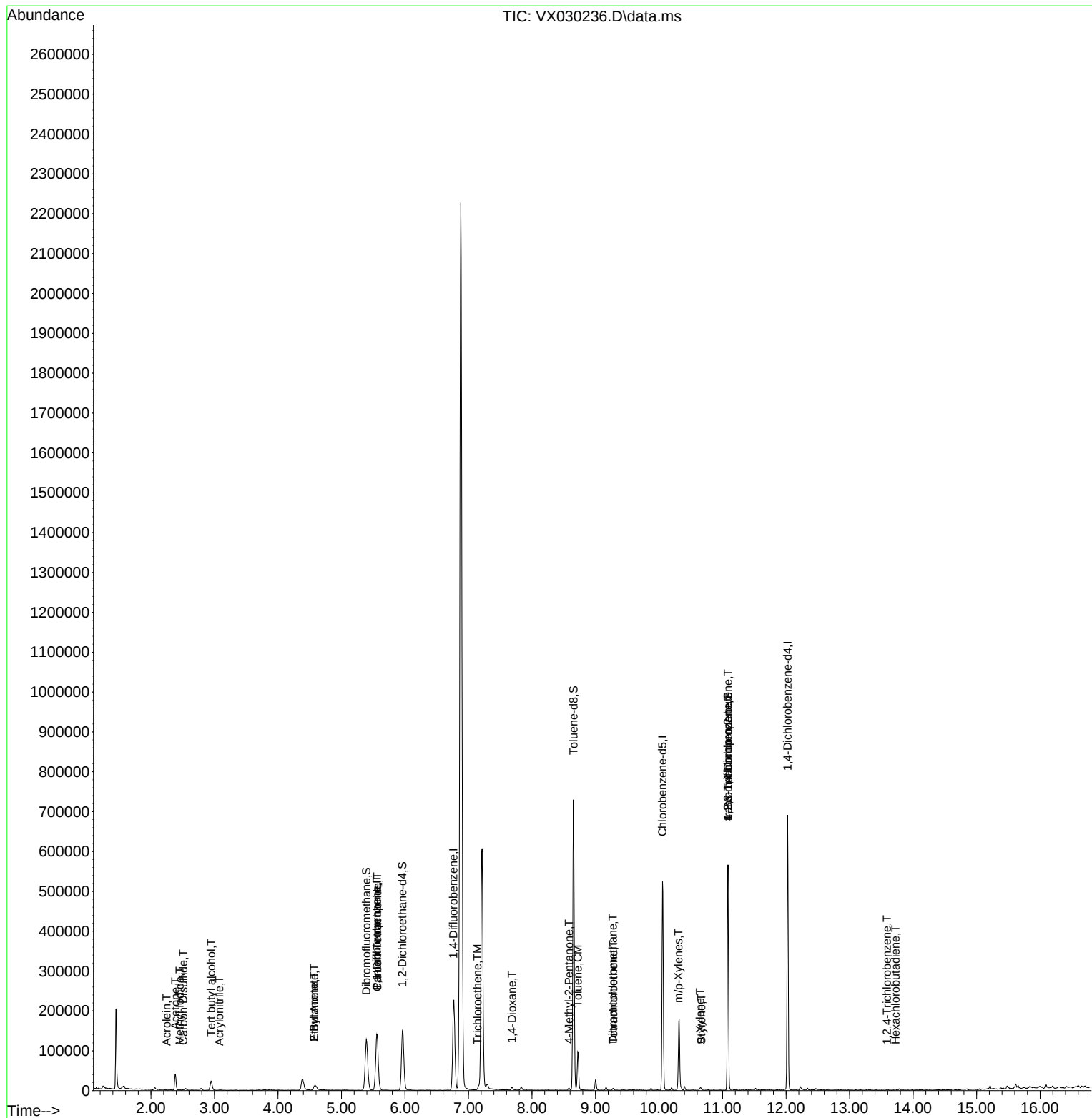
Internal Standards						
1) Pentafluorobenzene	5.556	168	130856	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	234248	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	236072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	133911	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	143823	54.683	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.360%	
35) Dibromofluoromethane	5.391	113	113088	50.502	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.000%	
50) Toluene-d8	8.653	98	416711	48.053	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 96.100%	
62) 4-Bromofluorobenzene	11.085	95	149608	46.485	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 92.980%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.605	94	349	Below Cal	#	79
10) Methyl Iodide	2.453	142	612	1.816	ug/l #	92
11) Tert butyl alcohol	2.946	59	14269	22.241	ug/l #	78
13) Acrolein	2.245	56	63	0.400	ug/l #	20
15) Acrylonitrile	3.074	53	402	0.254	ug/l #	52
16) Acetone	2.385	43	43541	32.335	ug/l	93
17) Carbon Disulfide	2.507	76	1725	0.313	ug/l	95
20) Methylene Chloride	2.788	84	2004	Below Cal		90
25) 2-Butanone	4.568	43	5844	2.583	ug/l	97
36) 1,1-Dichloropropene	5.556	75	11628	3.608	ug/l #	47
37) Ethyl Acetate	4.568	43	5844	1.281	ug/l #	73
38) Carbon Tetrachloride	5.562	117	13512	4.491	ug/l #	17
44) Trichloroethene	7.141	130	677	0.244	ug/l	80
49) 1,4-Dioxane	7.683	88	24	0.316	ug/l #	1
51) 4-Methyl-2-Pentanone	8.579	43	3727	0.821	ug/l	88
52) Toluene	8.720	92	36848	5.957	ug/l	97
60) Dibromochloromethane	9.274	129	887	0.364	ug/l #	11
64) Tetrachloroethene	9.281	164	765	0.301	ug/l	81
67) Ethyl Benzene	10.195	91	3482	Below Cal		98
68) m/p-Xylenes	10.305	106	4904	1.129	ug/l	92
69) o-Xylene	10.646	106	1185	0.277	ug/l	91
70) Styrene	10.664	104	1835	0.261	ug/l	97
76) 1,2,3-Trichloropropane	11.085	75	76184	21.583	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.085	75	76184	64.747	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.591	180	895	0.330	ug/l	88
94) Hexachlorobutadiene	13.725	225	369	0.338	ug/l	88

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

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61422-A

Quant Time: Jul 28 05:52:06 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072522W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 25 16:49:17 2022
Response via : Initial Calibration

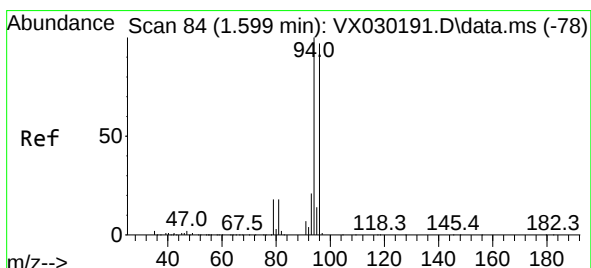
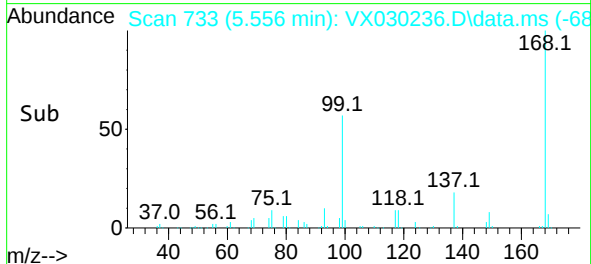
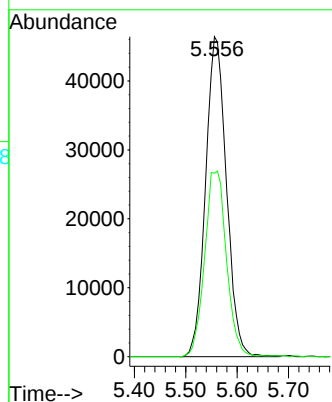
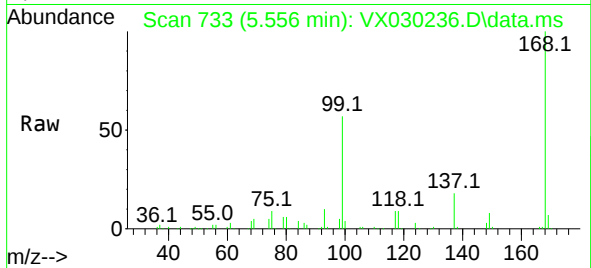




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

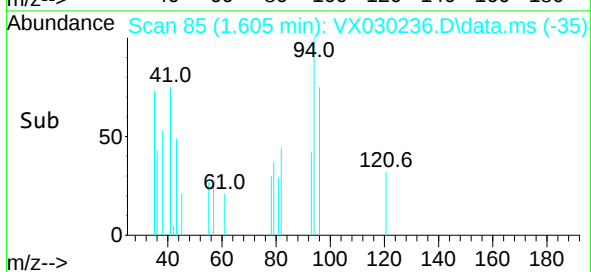
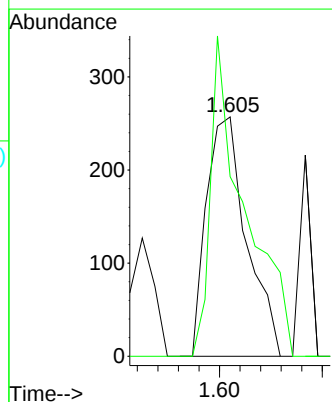
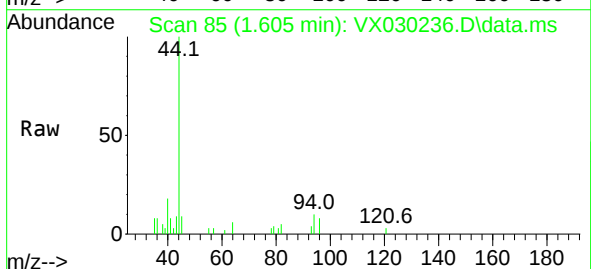
Instrument :
MSVOA_X
ClientSampleId :
61422-A

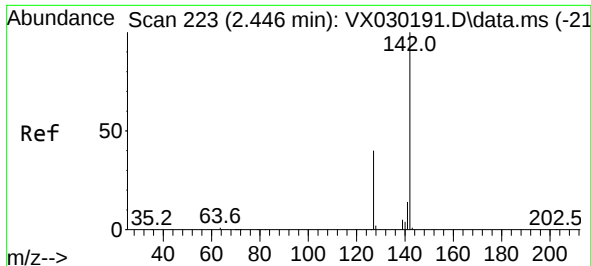
Tgt Ion:168 Resp: 130856
Ion Ratio Lower Upper
168 100
99 57.3 44.0 66.0



#5
Bromomethane
Concen: Below Cal
RT: 1.605 min Scan# 85
Delta R.T. 0.006 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

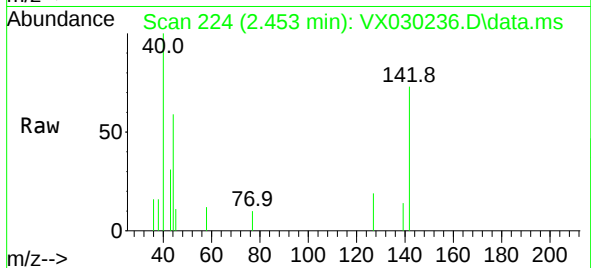
Tgt Ion: 94 Resp: 349
Ion Ratio Lower Upper
94 100
96 75.1 76.9 115.3#



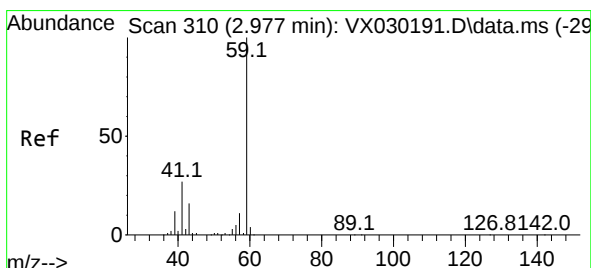
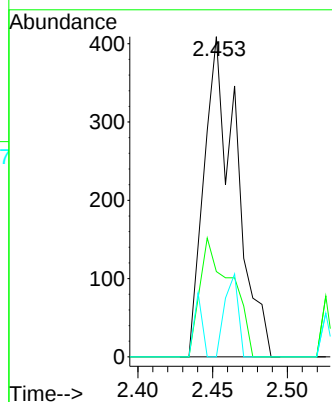
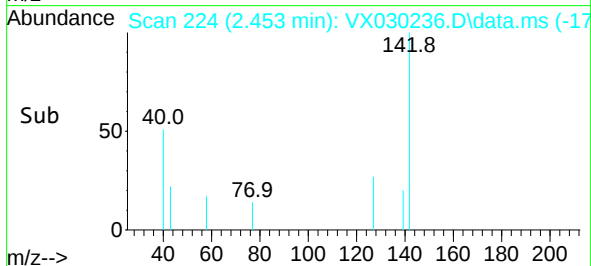


#10
Methyl Iodide
Concen: 1.816 ug/l
RT: 2.453 min Scan# 21
Delta R.T. 0.007 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Instrument :
MSVOA_X
ClientSampleId :
61422-A

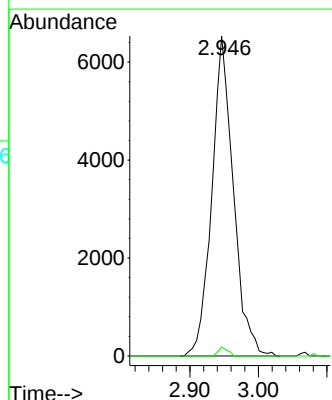
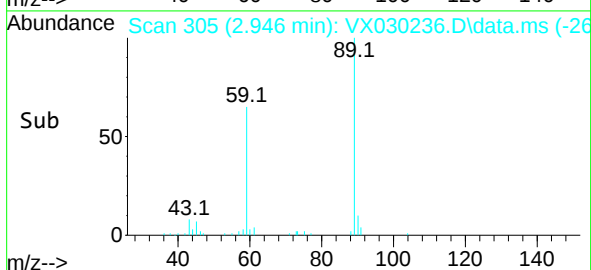
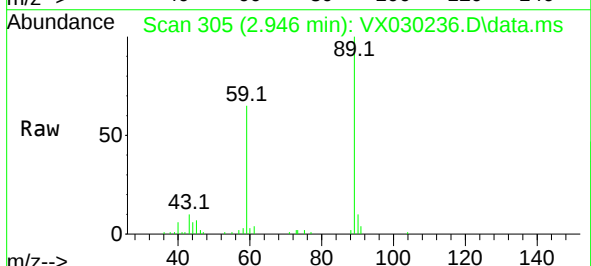


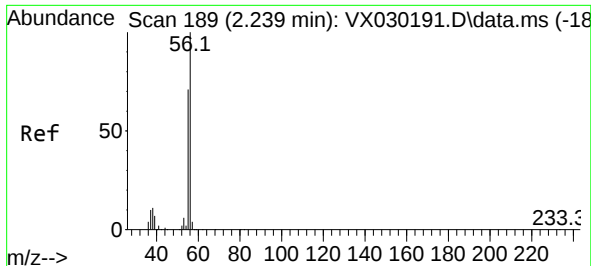
Tgt Ion:142 Resp: 612
Ion Ratio Lower Upper
142 100
127 36.1 30.2 45.2
141 4.9 11.3 16.9#



#11
Tert butyl alcohol
Concen: 22.241 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.031 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 59 Resp: 14269
Ion Ratio Lower Upper
59 100
57 1.2 7.4 11.2#

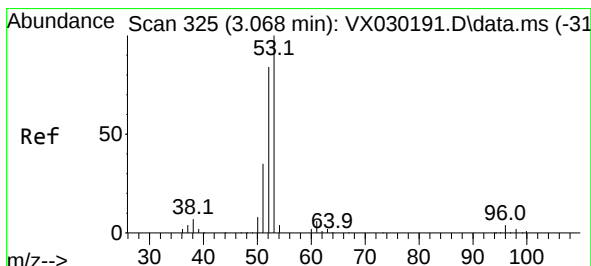
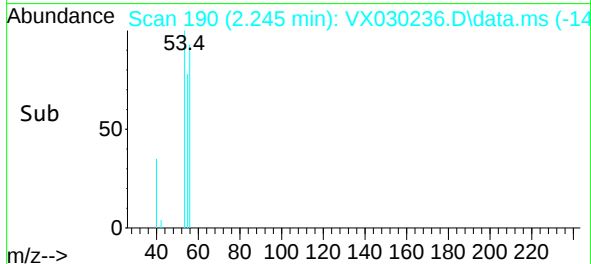
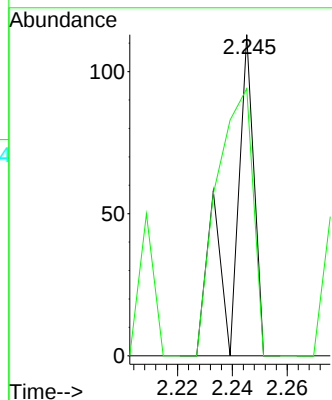
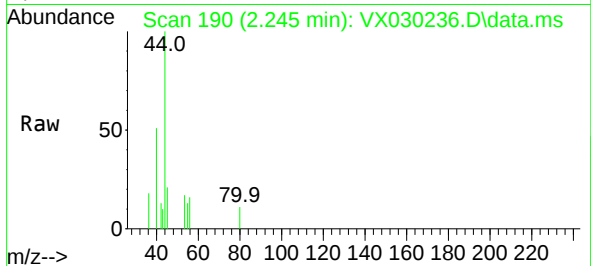




#13
Acrolein
Concen: 0.400 ug/l
RT: 2.245 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

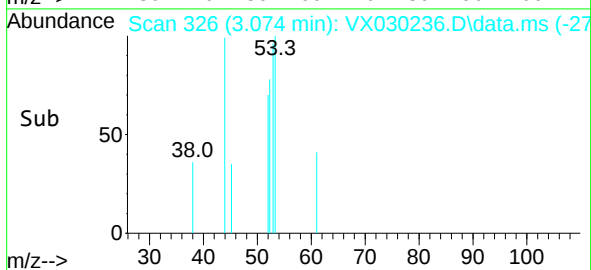
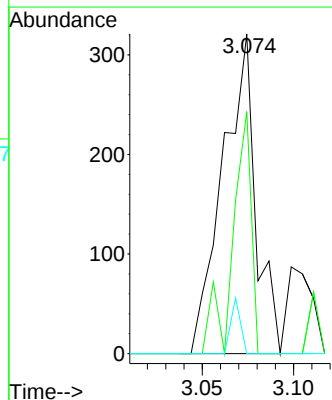
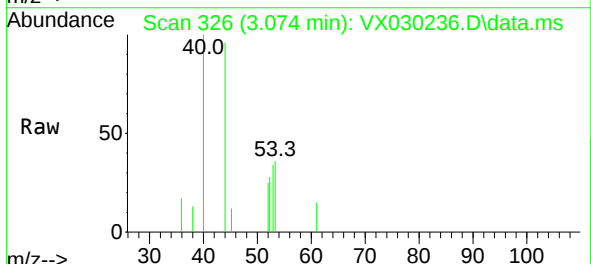
Instrument :
MSVOA_X
ClientSampleId :
61422-A

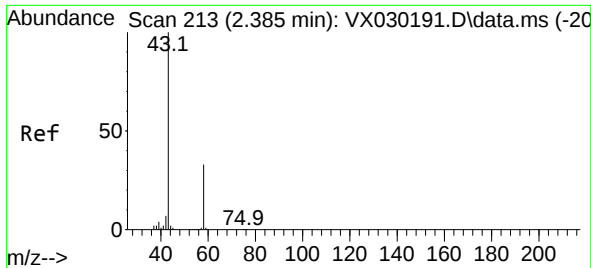
Tgt Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 136.5 56.6 84.8#



#15
Acrylonitrile
Concen: 0.254 ug/l
RT: 3.074 min Scan# 326
Delta R.T. 0.006 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 53 Resp: 402
Ion Ratio Lower Upper
53 100
52 42.8 65.4 98.0#
51 0.0 27.7 41.5#

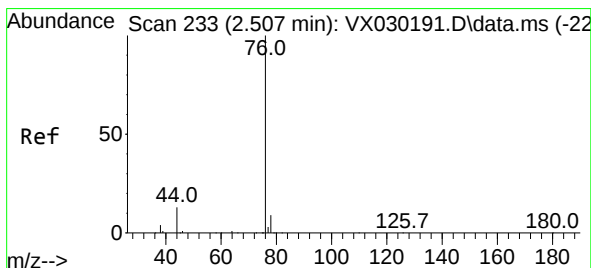
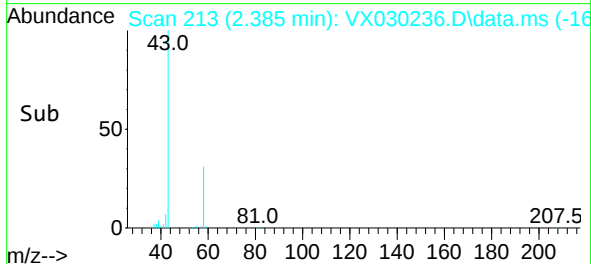
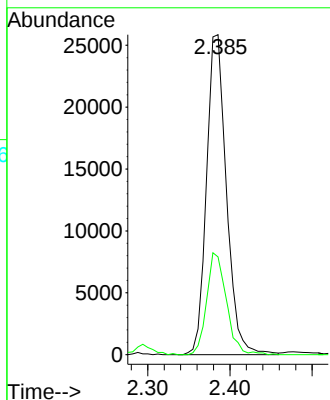
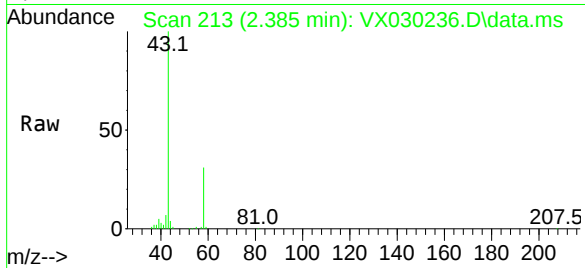




#16
Acetone
Concen: 32.335 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

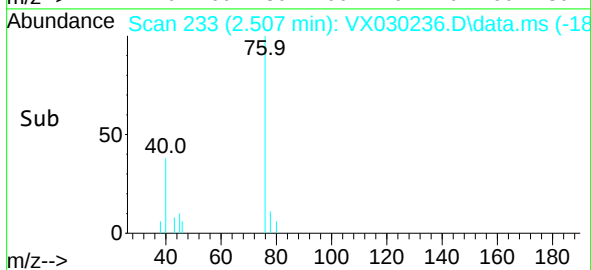
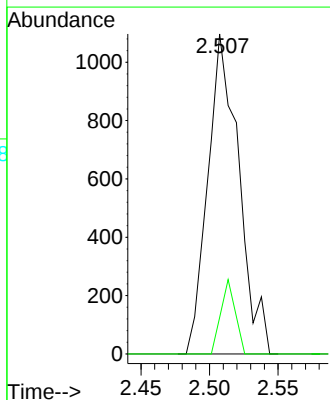
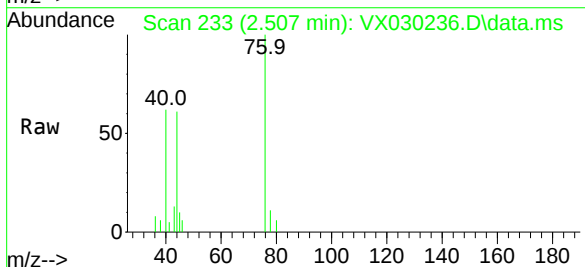
Instrument :
MSVOA_X
ClientSampleId :
61422-A

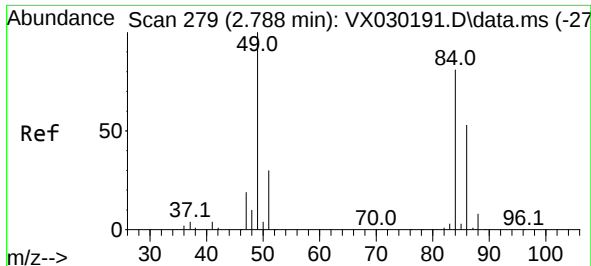
Tgt Ion: 43 Resp: 43541
Ion Ratio Lower Upper
43 100
58 30.5 27.7 41.5



#17
Carbon Disulfide
Concen: 0.313 ug/l
RT: 2.507 min Scan# 233
Delta R.T. 0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 76 Resp: 1725
Ion Ratio Lower Upper
76 100
78 11.4 7.8 11.6

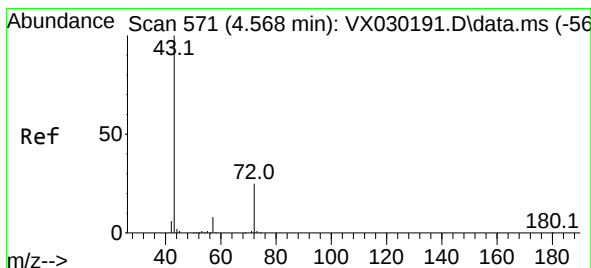
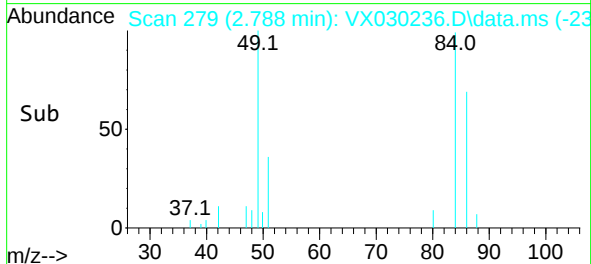
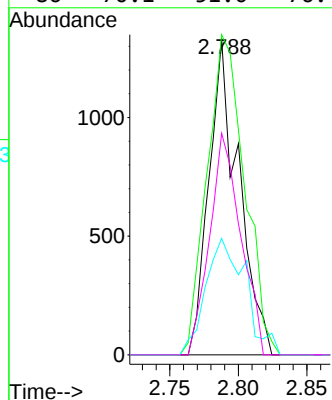
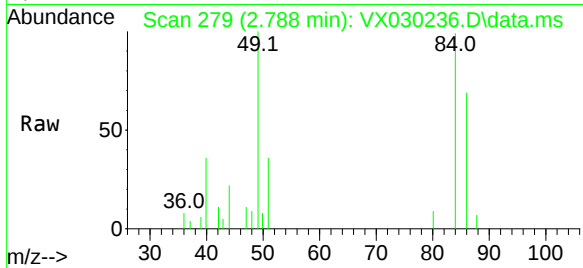




#20
Methylene Chloride
Concen: Below Cal
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

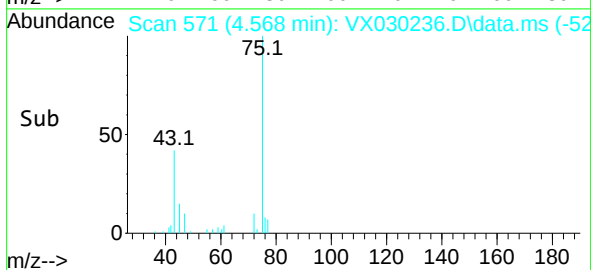
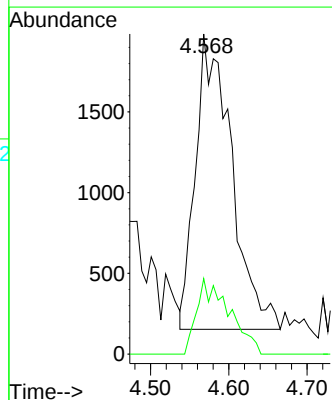
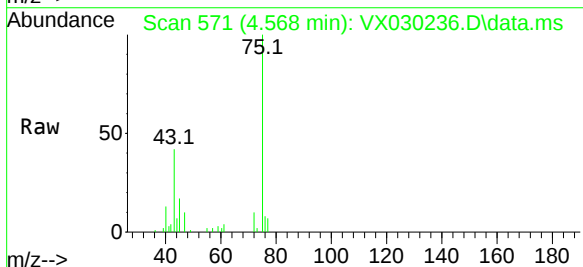
Instrument :
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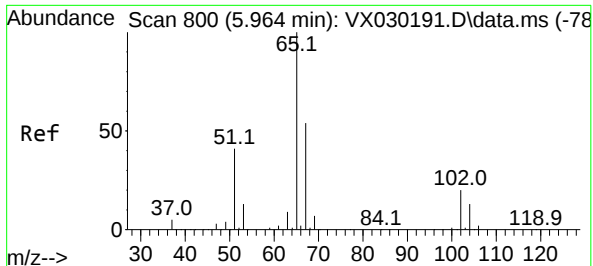
Tgt Ion:	84	Resp:	2004
Ion	Ratio	Lower	Upper
84	100		
49	101.2	93.8	140.6
51	36.8	29.4	44.0
86	70.1	51.0	76.4



#25
2-Butanone
Concen: 2.583 ug/l
RT: 4.568 min Scan# 571
Delta R.T. -0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion:	43	Resp:	5844
Ion	Ratio	Lower	Upper
43	100		
72	25.5	21.7	32.5





#33

1,2-Dichloroethane-d4

Concen: 54.683 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

Instrument :

MSVOA_X

ClientSampleId :

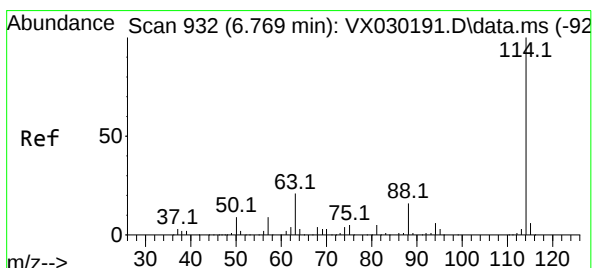
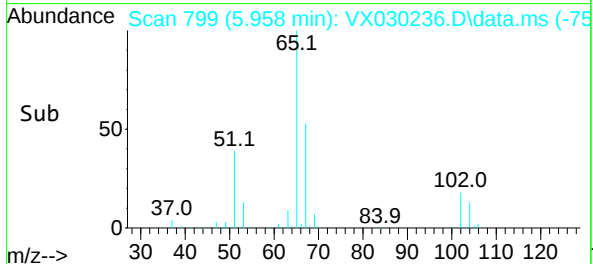
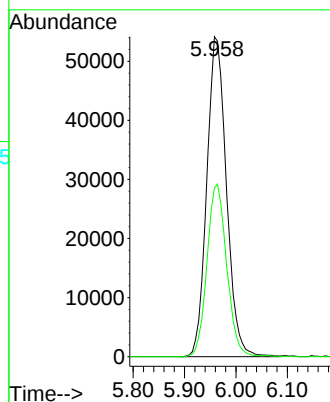
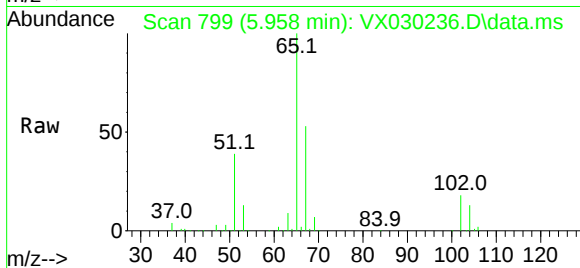
61422-A

Tgt Ion: 65 Resp: 143823

Ion Ratio Lower Upper

65 100

67 53.9 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

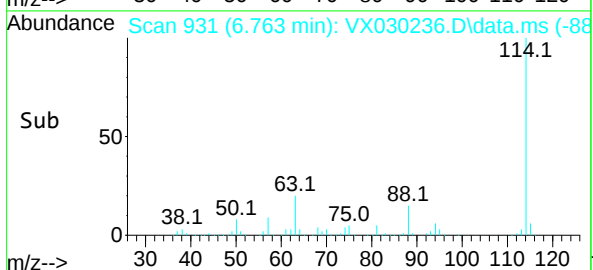
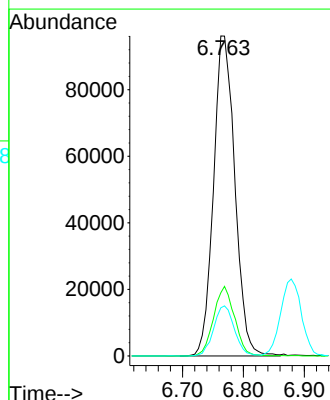
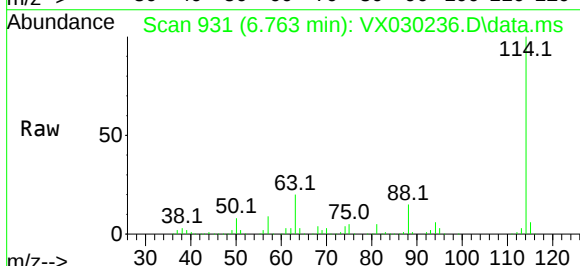
Tgt Ion: 114 Resp: 234248

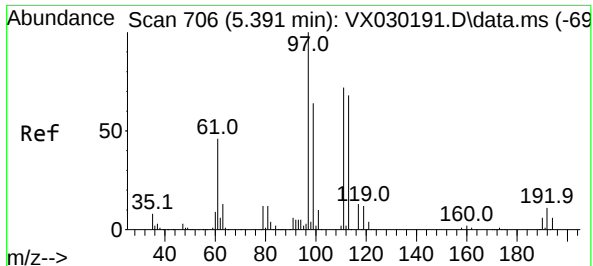
Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.4

88 15.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.502 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX030236.D

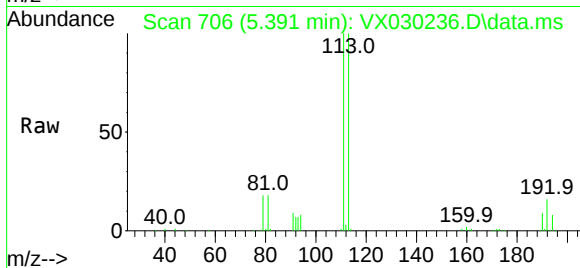
Acq: 27 Jul 2022 17:02

Instrument :

MSVOA_X

ClientSampleId :

61422-A



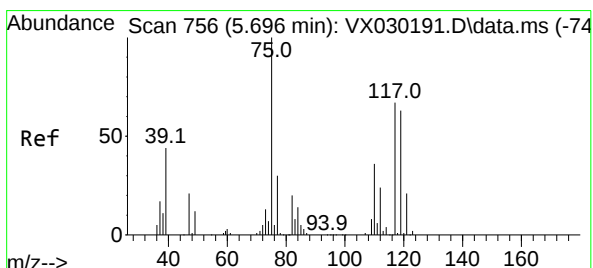
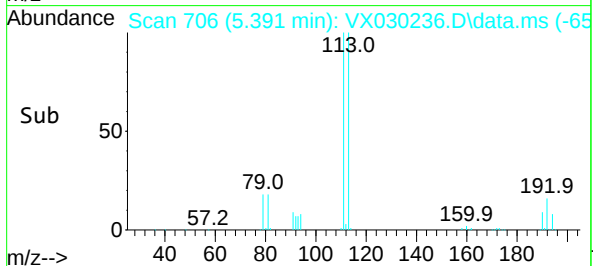
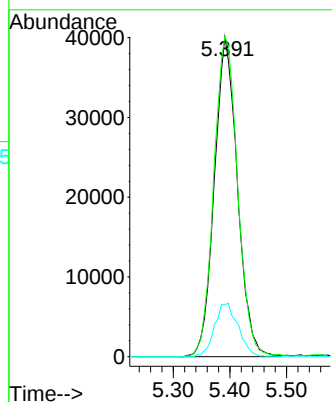
Tgt Ion:113 Resp: 113088

Ion Ratio Lower Upper

113 100

111 103.7 83.2 124.8

192 17.2 14.8 22.2



#36

1,1-Dichloropropene

Concen: 3.608 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

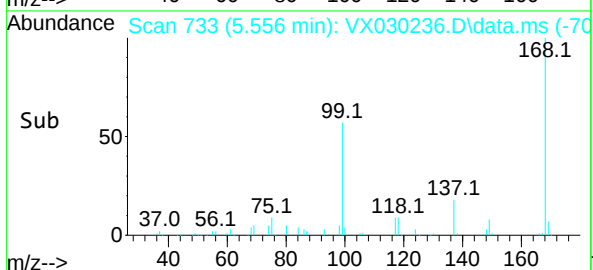
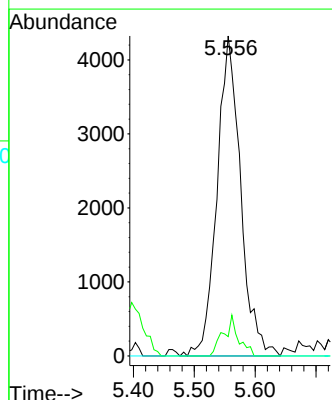
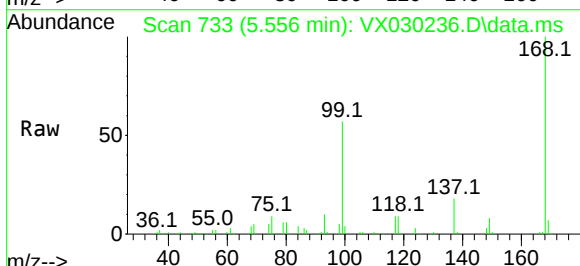
Tgt Ion: 75 Resp: 11628

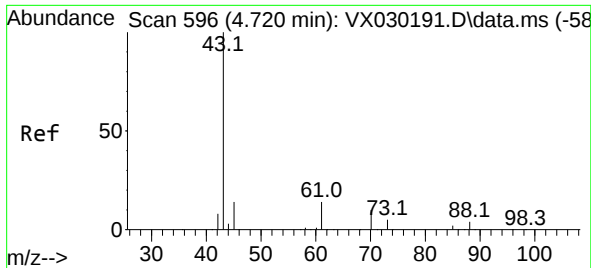
Ion Ratio Lower Upper

75 100

110 8.1 19.3 57.9#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.281 ug/l

RT: 4.568 min Scan# 51

Delta R.T. -0.152 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

Instrument :

MSVOA_X

ClientSampleId :

61422-A

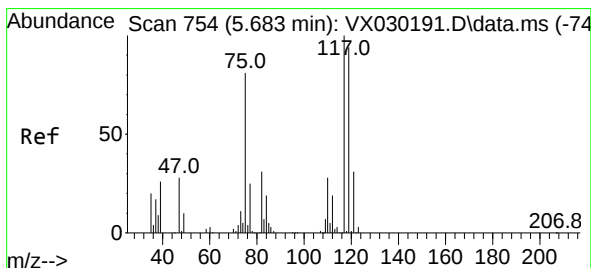
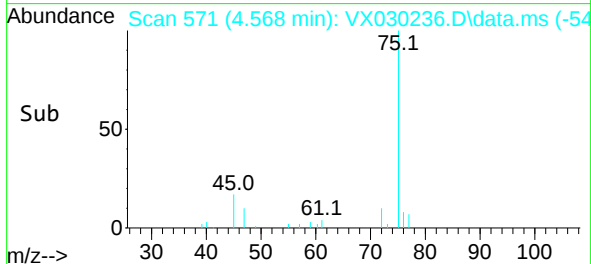
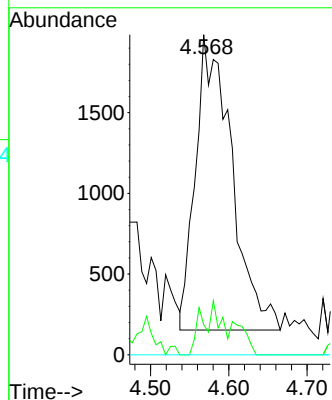
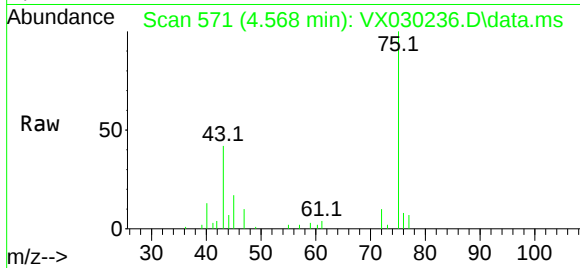
Tgt Ion: 43 Resp: 5844

Ion Ratio Lower Upper

43 100

61 4.4 11.7 17.5#

70 0.0 9.3 13.9#



#38

Carbon Tetrachloride

Concen: 4.491 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.121 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

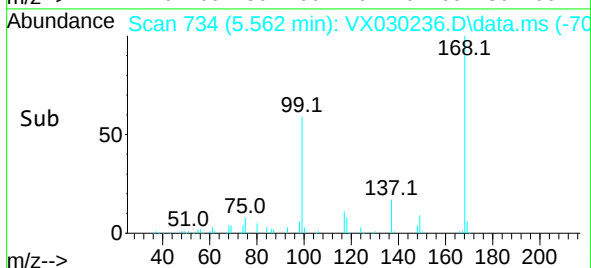
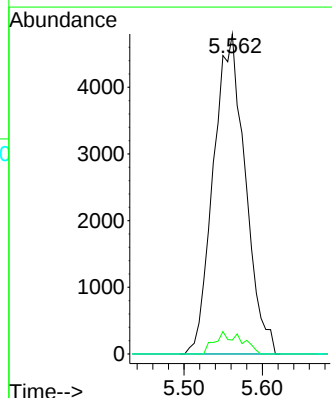
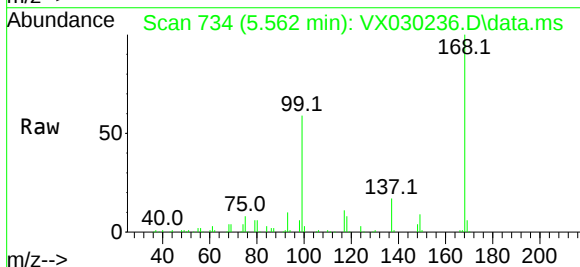
Tgt Ion: 117 Resp: 13512

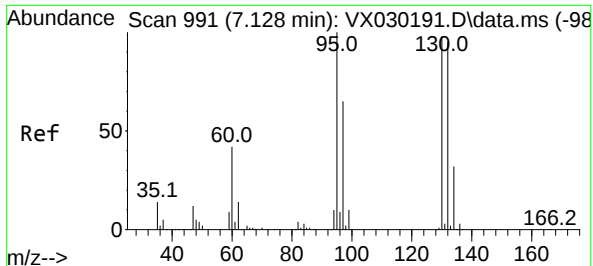
Ion Ratio Lower Upper

117 100

119 4.4 74.1 111.1#

121 0.0 25.8 38.8#

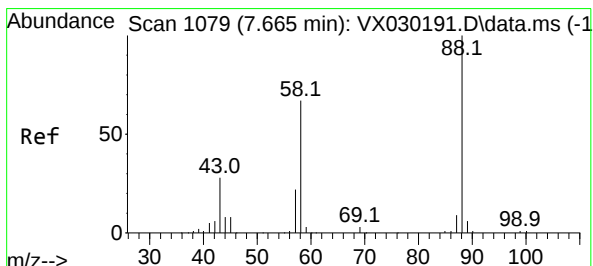
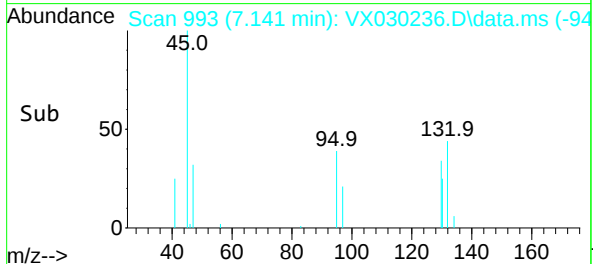
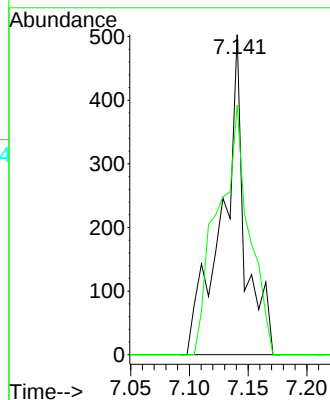
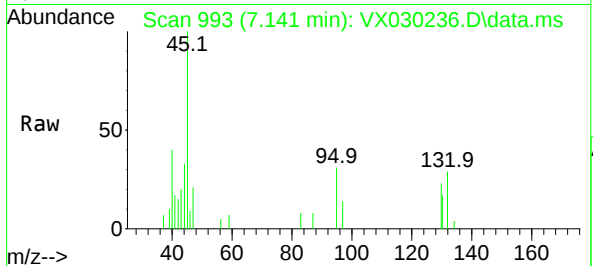




#44
Trichloroethene
Concen: 0.244 ug/l
RT: 7.141 min Scan# 991
Delta R.T. 0.013 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

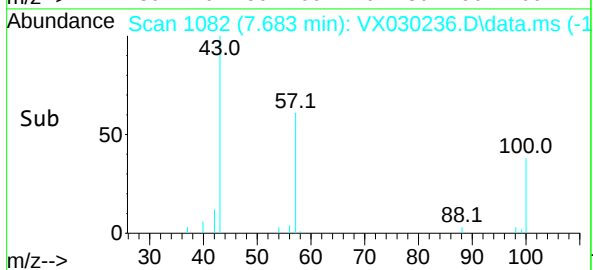
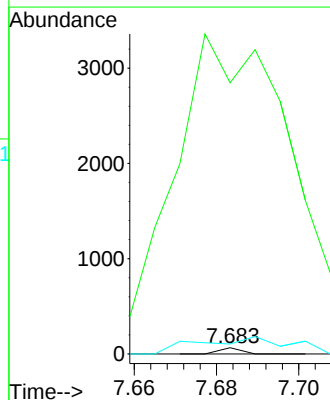
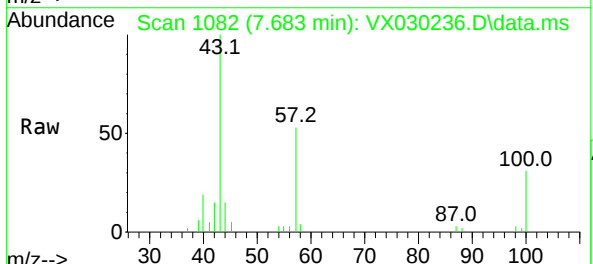
Instrument :
MSVOA_X
ClientSampleId :
61422-A

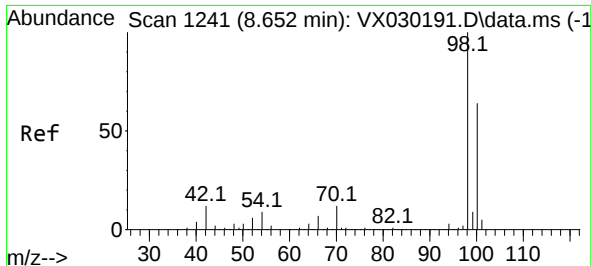
Tgt Ion:130 Resp: 677
Ion Ratio Lower Upper
130 100
95 77.9 0.0 194.8



#49
1,4-Dioxane
Concen: 0.316 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.018 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 30254.2 23.8 35.8#
58 1145.8 53.8 80.6#

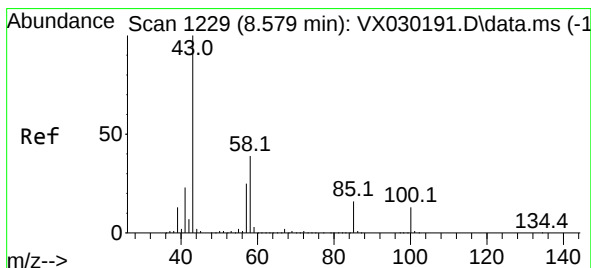
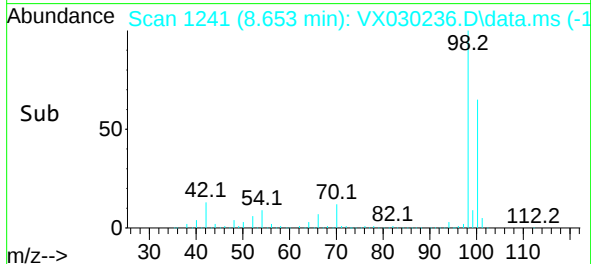
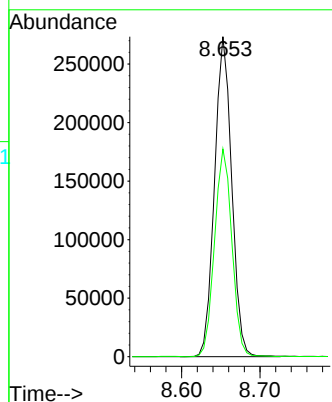
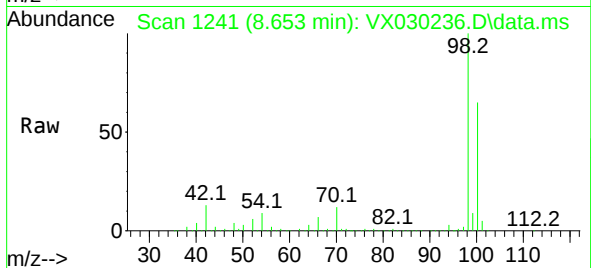




#50
Toluene-d8
Concen: 48.053 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

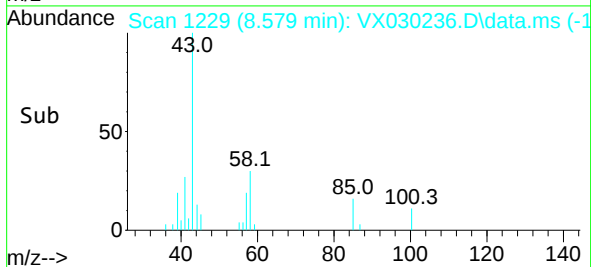
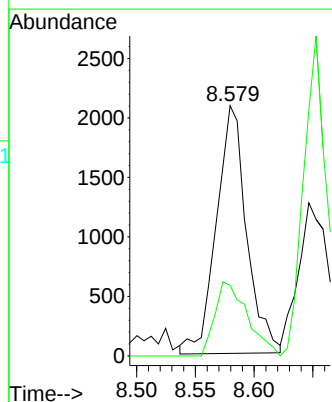
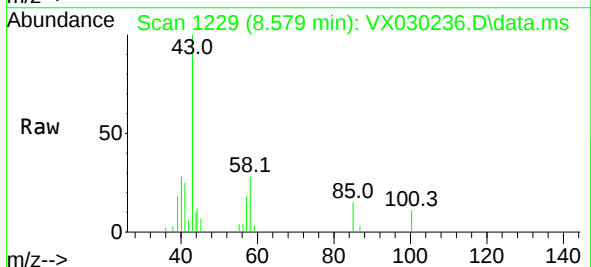
Instrument :
MSVOA_X
ClientSampleId :
61422-A

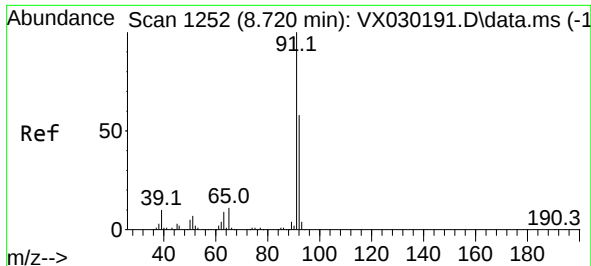
Tgt Ion: 98 Resp: 416711
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 0.821 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 43 Resp: 3727
Ion Ratio Lower Upper
43 100
58 32.1 31.4 47.2

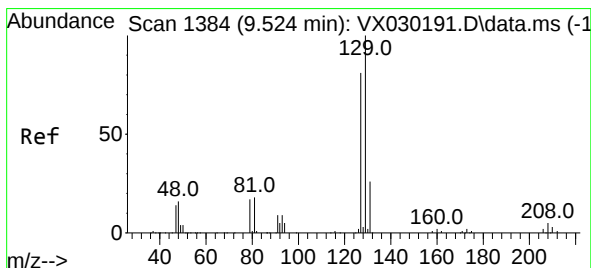
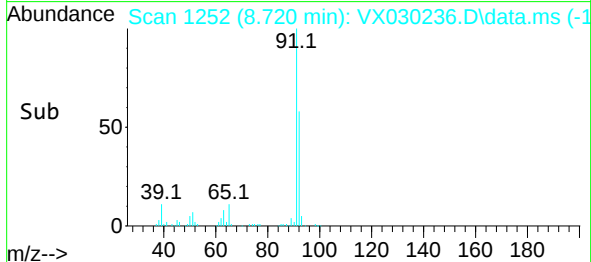
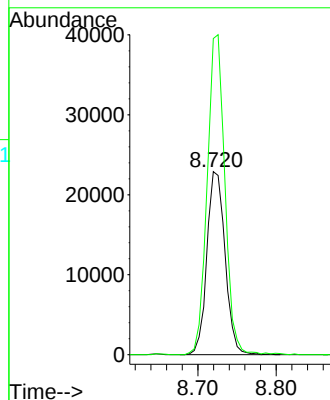
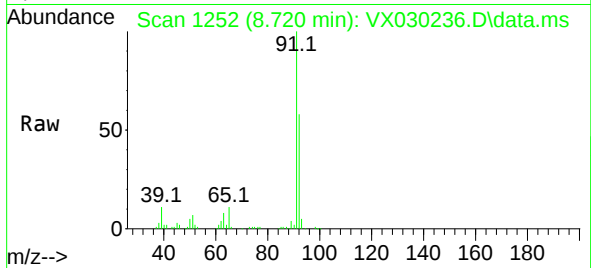




#52
Toluene
Concen: 5.957 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

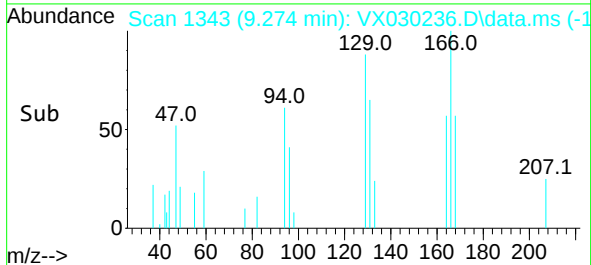
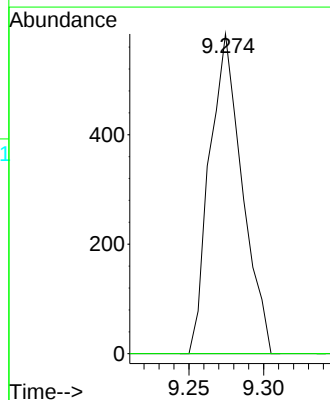
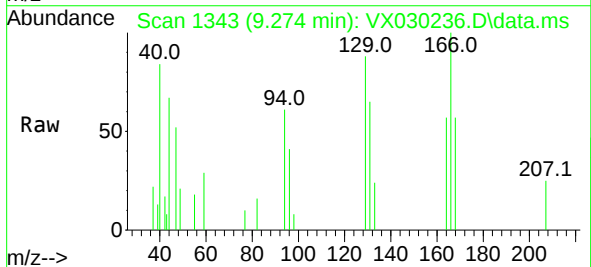
Instrument :
MSVOA_X
ClientSampleId :
61422-A

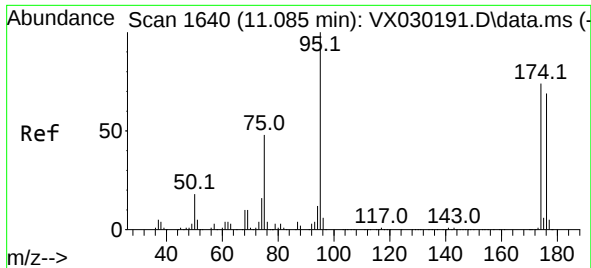
Tgt Ion: 92 Resp: 36848
Ion Ratio Lower Upper
92 100
91 170.2 139.2 208.8



#60
Dibromochloromethane
Concen: 0.364 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.250 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 129 Resp: 887
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#

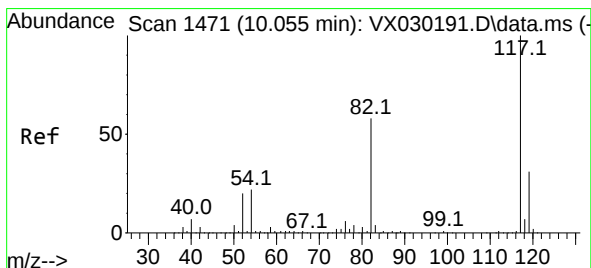
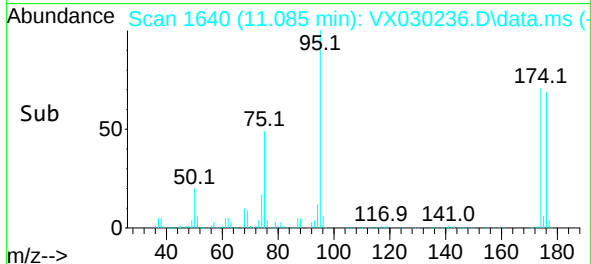
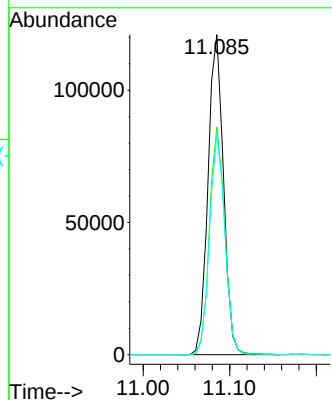
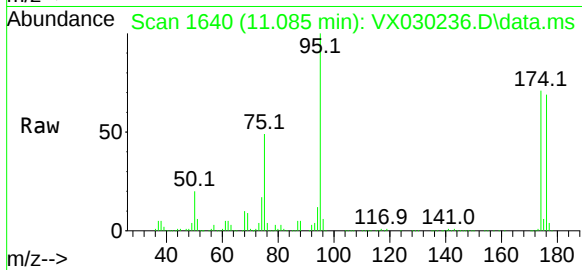




#62
4-Bromofluorobenzene
Concen: 46.485 ug/l
RT: 11.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

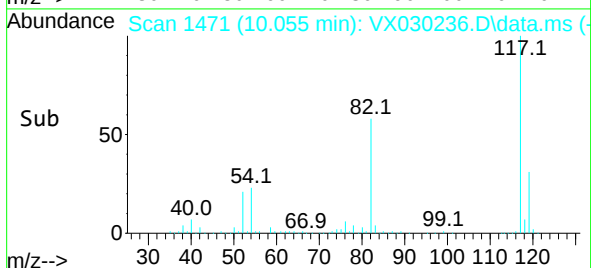
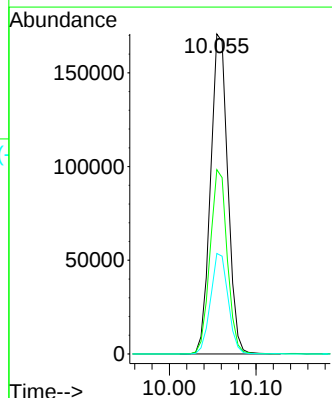
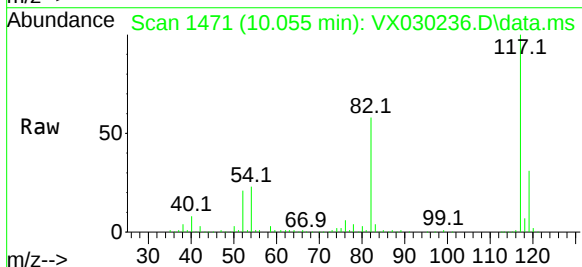
Instrument :
MSVOA_X
ClientSampleId :
61422-A

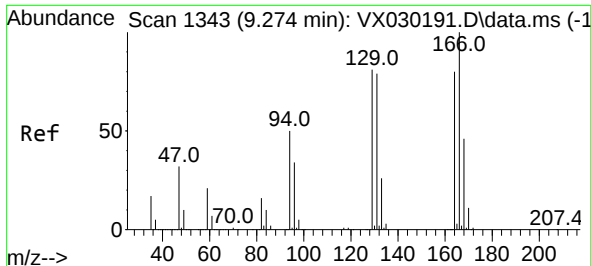
Tgt Ion: 95 Resp: 149608
Ion Ratio Lower Upper
95 100
174 71.1 0.0 149.0
176 68.0 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

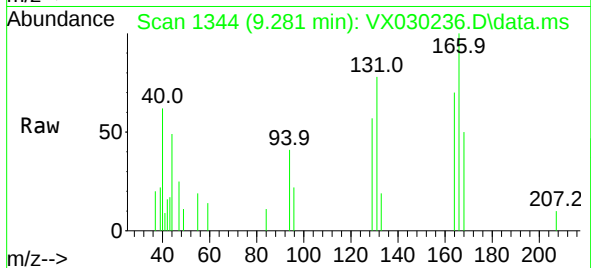
Tgt Ion: 117 Resp: 236072
Ion Ratio Lower Upper
117 100
82 57.6 42.7 64.1
119 31.4 25.4 38.2



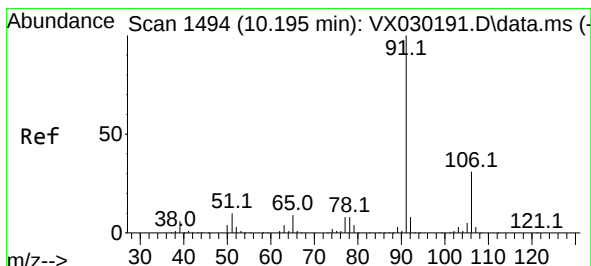
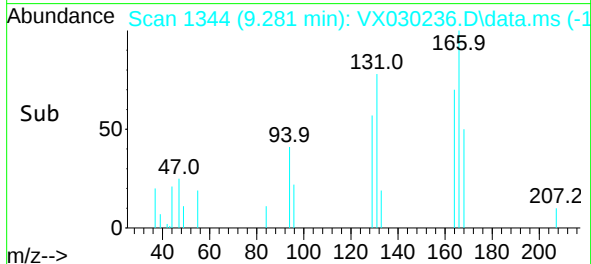
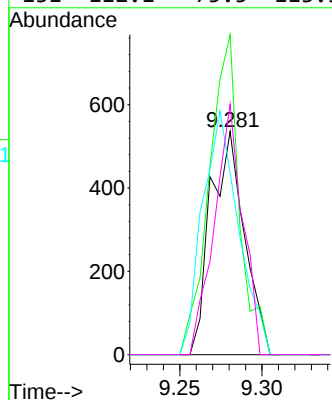


#64
Tetrachloroethene
Concen: 0.301 ug/l
RT: 9.281 min Scan# 11
Delta R.T. 0.007 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Instrument :
MSVOA_X
ClientSampleId :
61422-A

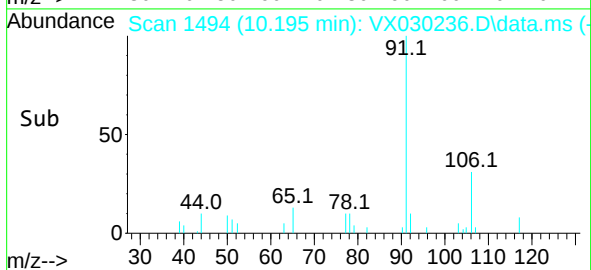
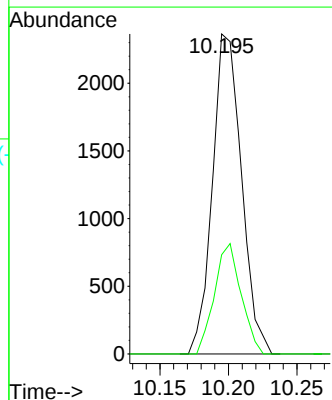
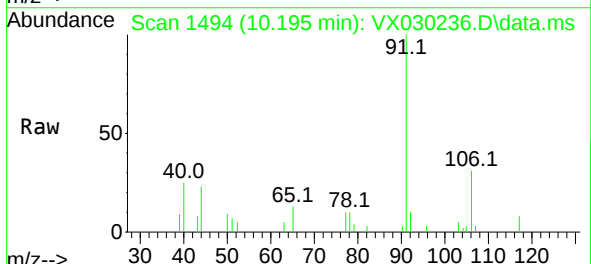


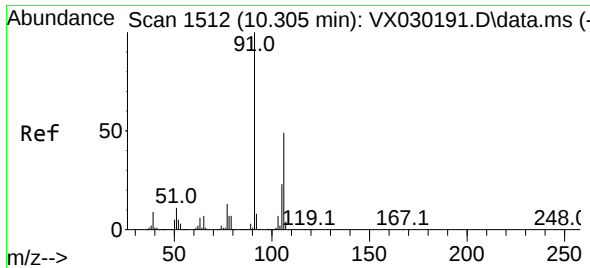
Tgt	Ion:164	Resp:	765
Ion	Ratio	Lower	Upper
164	100		
166	143.3	98.2	147.4
129	81.5	80.8	121.2
131	112.1	75.5	113.3



#67
Ethyl Benzene
Concen: Below Cal
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 91	Resp:	3482	
Ion Ratio	Lower	Upper	
91 100			
106 31.0	25.5	38.3	

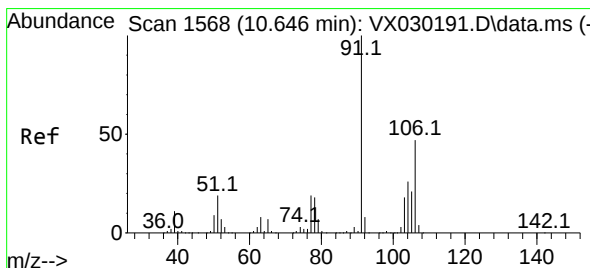
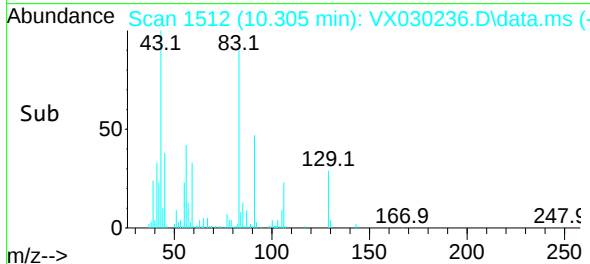
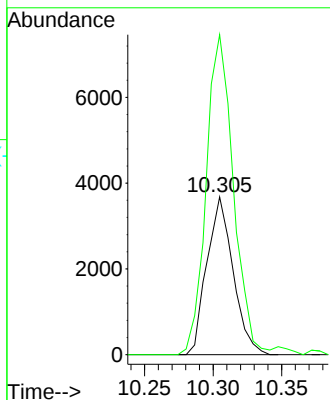
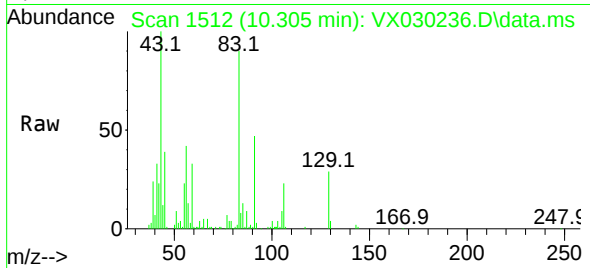




#68
m/p-Xylenes
Concen: 1.129 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

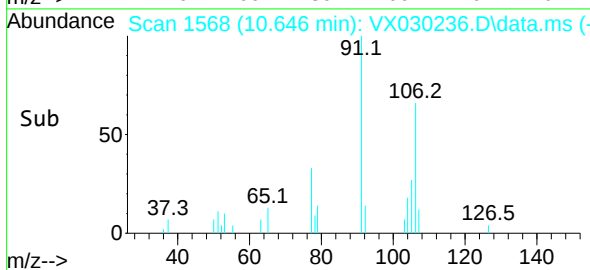
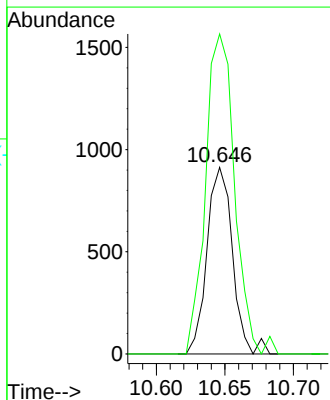
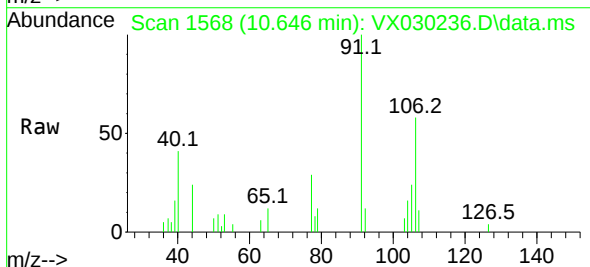
Instrument :
MSVOA_X
ClientSampleId :
61422-A

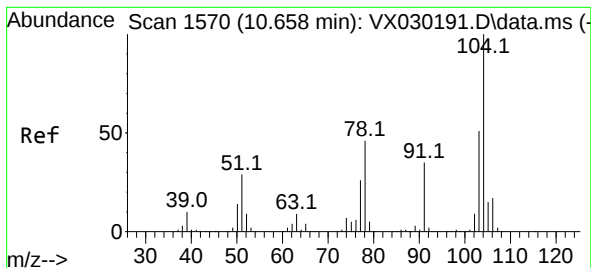
Tgt Ion:106 Resp: 4904
Ion Ratio Lower Upper
106 100
91 210.4 158.2 237.4



#69
o-Xylene
Concen: 0.277 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion:106 Resp: 1185
Ion Ratio Lower Upper
106 100
91 193.2 103.8 311.6





#70

Styrene

Concen: 0.261 ug/l

RT: 10.664 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

Instrument :

MSVOA_X

ClientSampleId :

61422-A

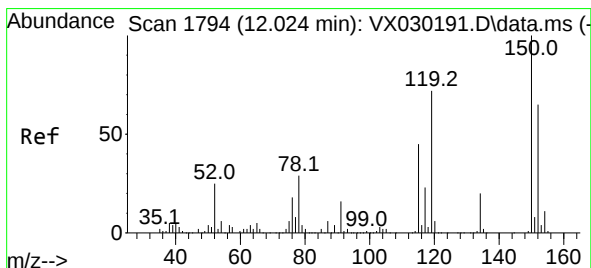
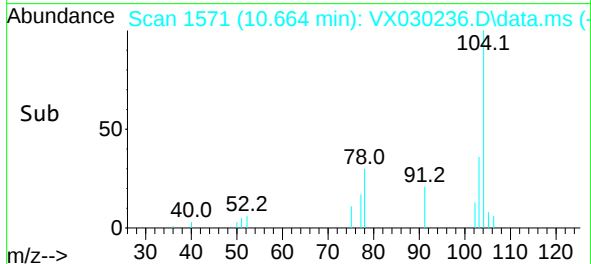
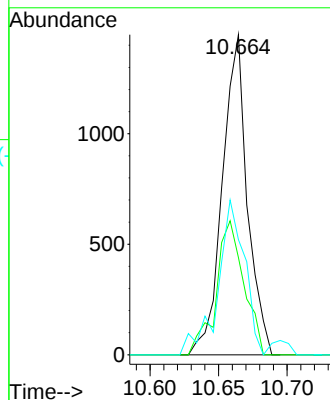
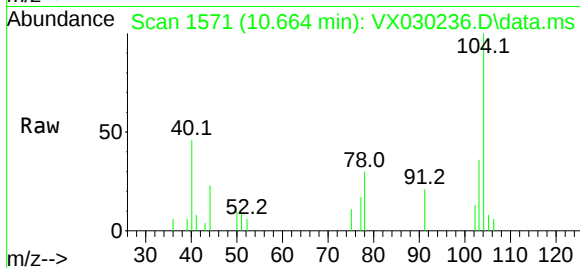
Tgt Ion:104 Resp: 1835

Ion Ratio Lower Upper

104 100

78 46.8 37.8 56.8

103 51.5 44.5 66.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

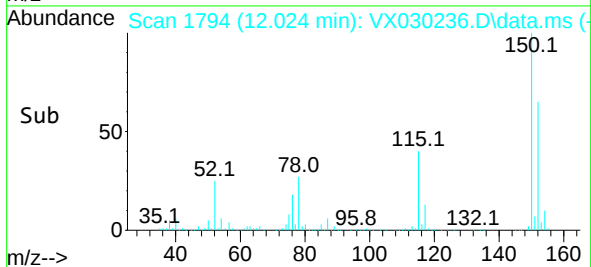
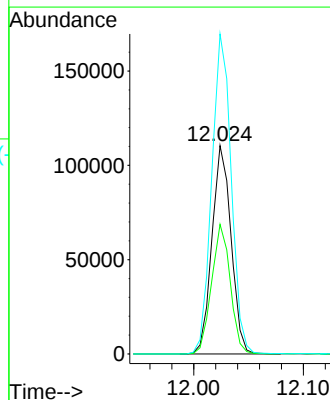
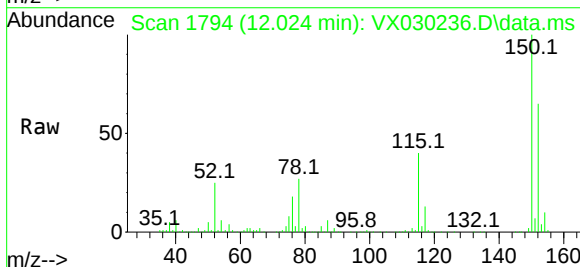
Tgt Ion:152 Resp: 133911

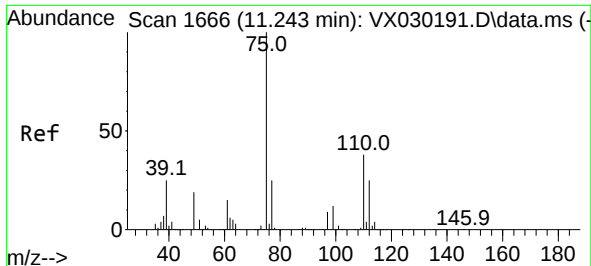
Ion Ratio Lower Upper

152 100

115 60.7 40.5 121.5

150 156.4 0.0 347.0

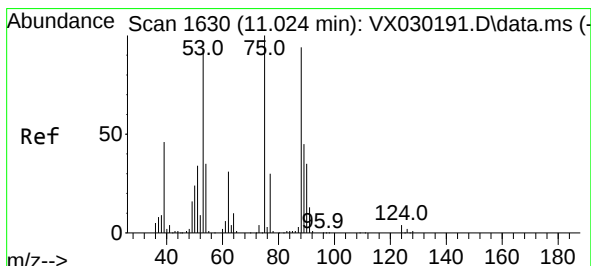
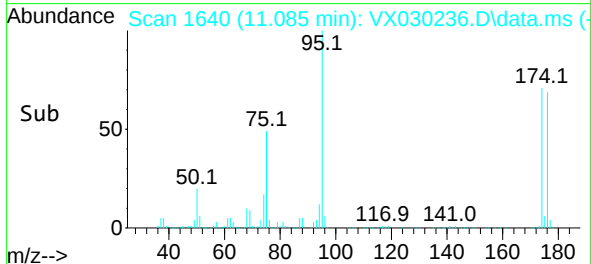
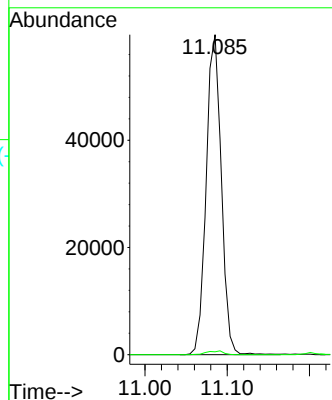
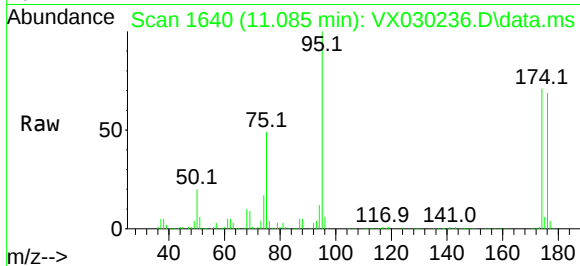




#76
1,2,3-Trichloropropane
Concen: 21.583 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.158 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

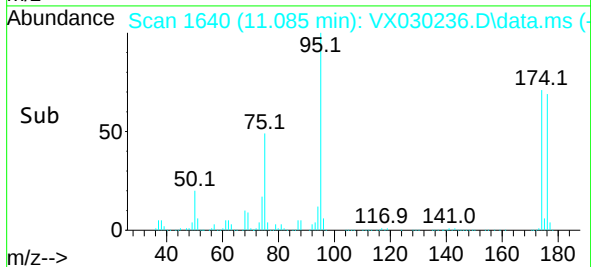
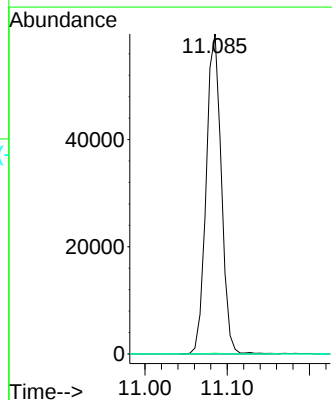
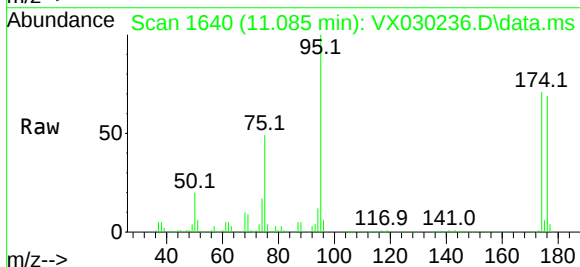
Instrument :
MSVOA_X
ClientSampleId :
61422-A

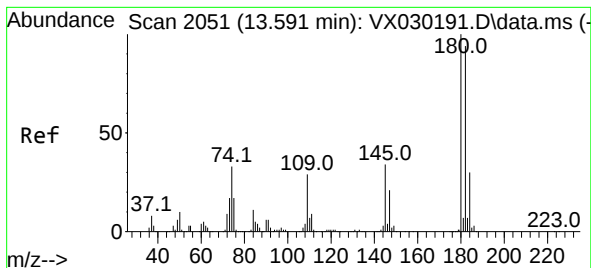
Tgt Ion: 75 Resp: 76184
Ion Ratio Lower Upper
75 100
77 1.3 19.8 59.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.747 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.061 min
Lab File: VX030236.D
Acq: 27 Jul 2022 17:02

Tgt Ion: 75 Resp: 76184
Ion Ratio Lower Upper
75 100
53 0.2 74.2 111.4#
89 0.0 34.8 52.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.330 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. -0.000 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

Instrument :

MSVOA_X

ClientSampleId :

61422-A

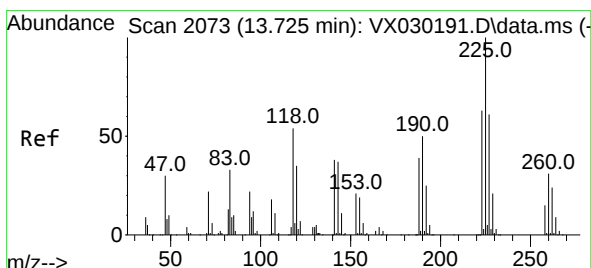
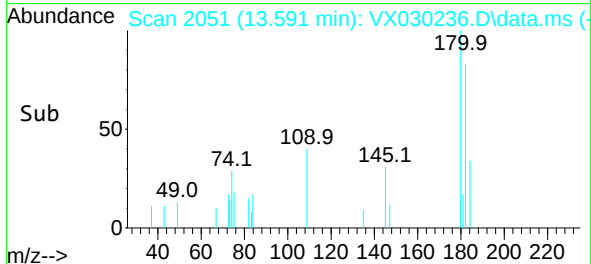
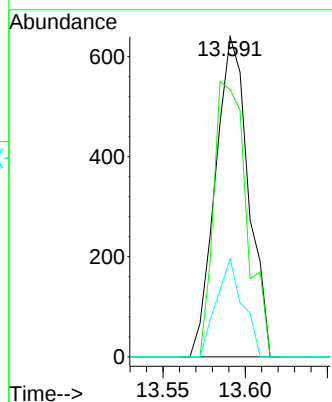
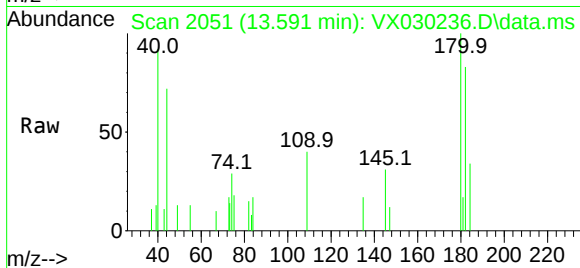
Tgt Ion:180 Resp: 895

Ion Ratio Lower Upper

180 100

182 85.4 48.2 144.6

145 24.4 15.9 47.6



#94

Hexachlorobutadiene

Concen: 0.338 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX030236.D

Acq: 27 Jul 2022 17:02

Tgt Ion:225 Resp: 369

Ion Ratio Lower Upper

225 100

223 71.8 30.6 91.6

227 71.3 31.9 95.9

