

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062022\
 Data File : VX029646.D
 Acq On : 21 Jun 2022 07:18
 Operator : JC/MD
 Sample : N3354-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-53

Quant Time: Jun 21 08:48:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061822W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 20 01:31:01 2022
 Response via : Initial Calibration

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

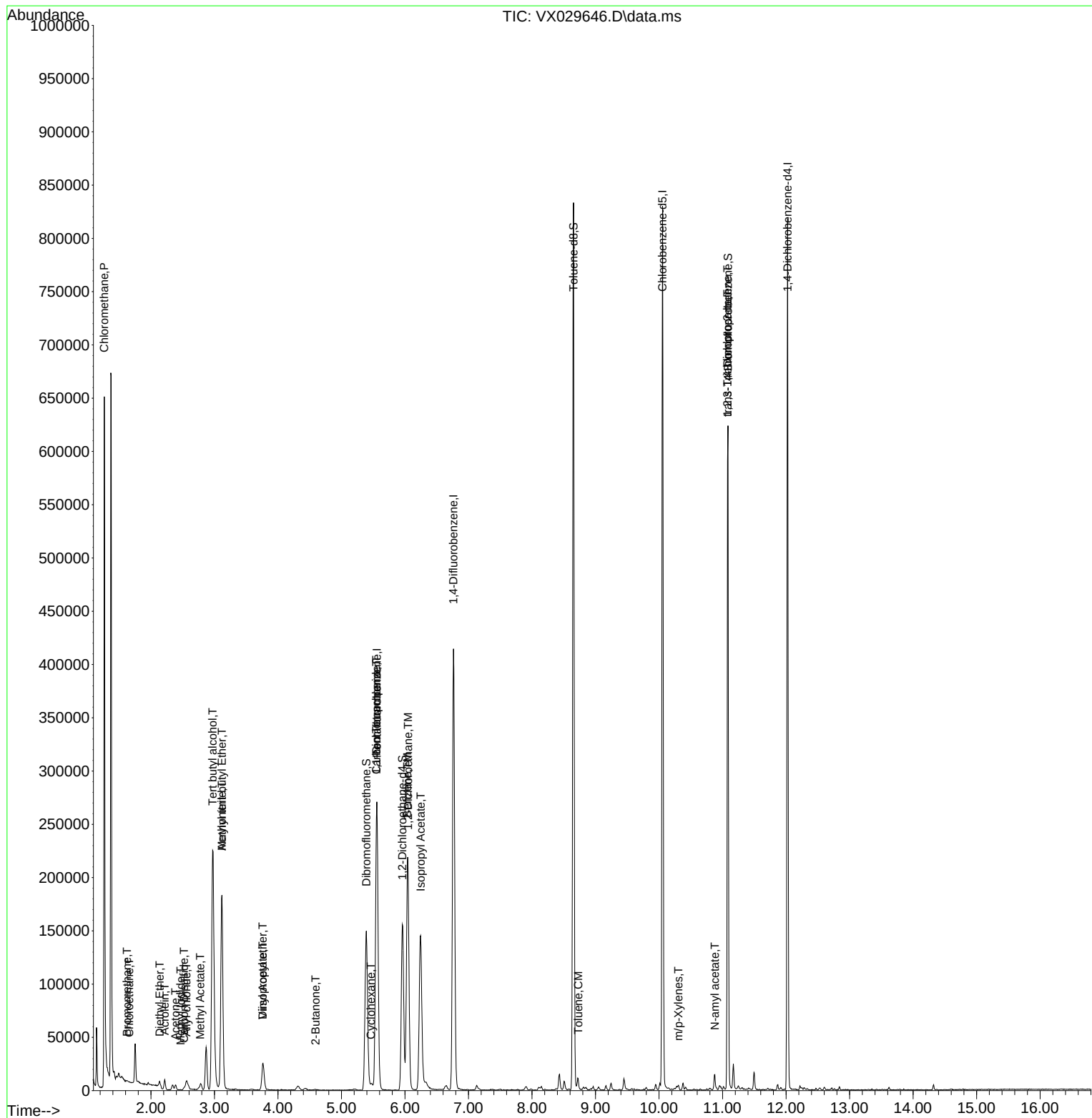
Internal Standards						
1) Pentafluorobenzene	5.556	168	260863	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	445562	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	384120	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	167349	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	152620	44.198	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.400%		
35) Dibromofluoromethane	5.391	113	131797	45.390	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.780%		
50) Toluene-d8	8.653	98	499579	47.096	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.200%		
62) 4-Bromofluorobenzene	11.085	95	180353	45.085	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.180%		
Target Compounds						Qvalue
3) Chloromethane	1.264	50	3938	1.157	ug/l #	68
5) Bromomethane	1.623	94	526	0.329	ug/l #	73
6) Chloroethane	1.654	64	1452	1.869	ug/l #	67
8) Diethyl Ether	2.136	74	1332	0.774	ug/l	83
10) Methyl Iodide	2.465	142	509	3.171	ug/l #	84
11) Tert butyl alcohol	2.971	59	339135	458.388	ug/l	99
13) Acrolein	2.215	56	224	1.178	ug/l #	1
14) Allyl chloride	2.556	41	1258	0.295	ug/l #	66
15) Acrylonitrile	3.117	53	2053	1.271	ug/l #	28
16) Acetone	2.386	43	5082	3.692	ug/l	93
17) Carbon Disulfide	2.520	76	5063	0.739	ug/l	99
18) Methyl Acetate	2.776	43	3401	0.935	ug/l #	46
19) Methyl tert-butyl Ether	3.117	73	216460	23.592	ug/l	98
22) Diisopropyl ether	3.757	45	26755	3.170	ug/l	88
23) Vinyl Acetate	3.757	43	13247	1.880	ug/l #	66
25) 2-Butanone	4.592	43	518	0.238	ug/l	90
31) Cyclohexane	5.464	56	3886	0.838	ug/l #	64
36) 1,1-Dichloropropene	5.550	75	19609	4.990	ug/l #	50
38) Carbon Tetrachloride	5.550	117	27215	7.042	ug/l #	15
40) Benzene	6.037	78	279250	23.971	ug/l	97
42) 1,2-Dichloroethane	6.050	62	2697	0.673	ug/l #	73
43) Isopropyl Acetate	6.245	43	36318	5.798	ug/l #	57
44) Trichloroethene	7.129	130	1699	Below Cal		97
52) Toluene	8.726	92	3775	0.506	ug/l	100
68) m/p-Xylenes	10.305	106	1075	0.203	ug/l	86
74) N-amyl acetate	10.878	43	1053	0.242	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	85146	23.355	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	85146	77.697	ug/l #	15

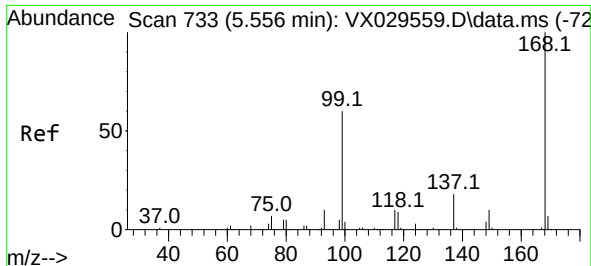
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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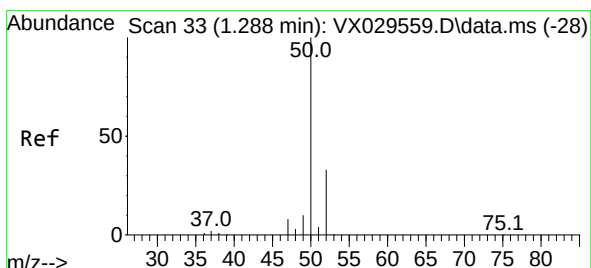
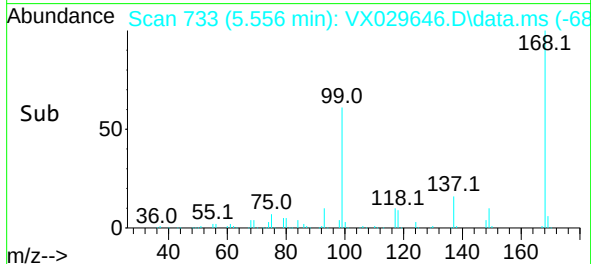
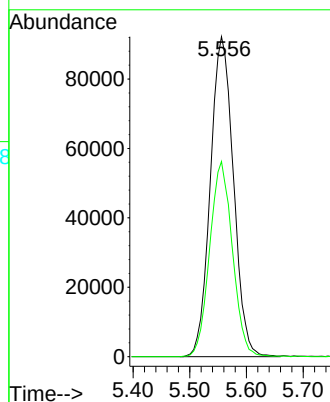
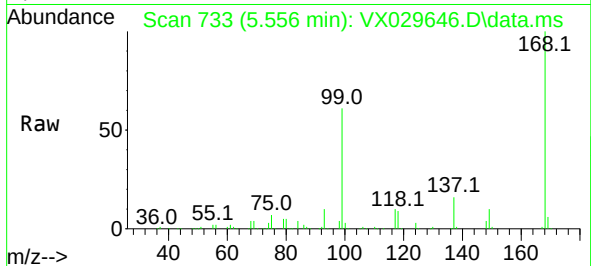




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

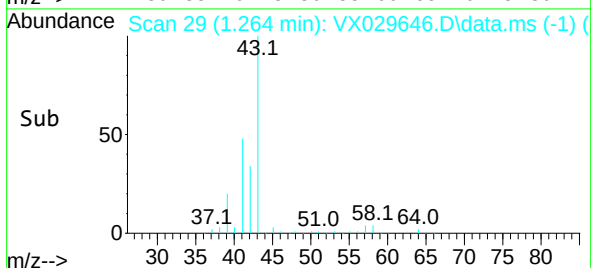
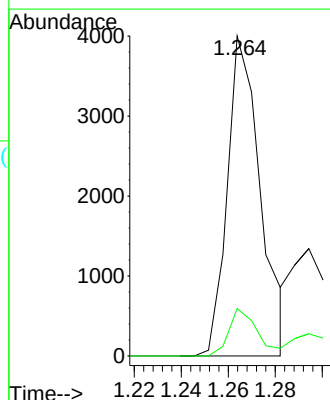
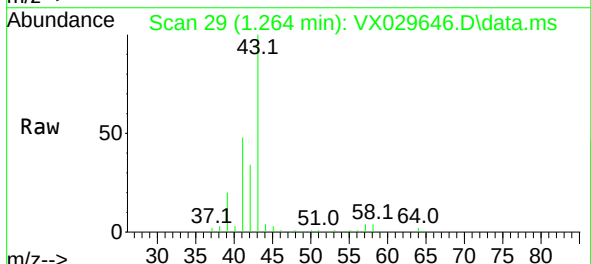
Instrument :
MSVOA_X
ClientSampleId :
MW-53

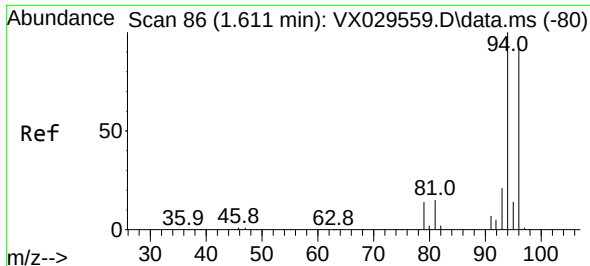
Tgt Ion:168 Resp: 260863
Ion Ratio Lower Upper
168 100
99 61.0 41.7 62.5



#3
Chloromethane
Concen: 1.157 ug/l
RT: 1.264 min Scan# 29
Delta R.T. -0.024 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 50 Resp: 3938
Ion Ratio Lower Upper
50 100
52 14.8 26.4 39.6#

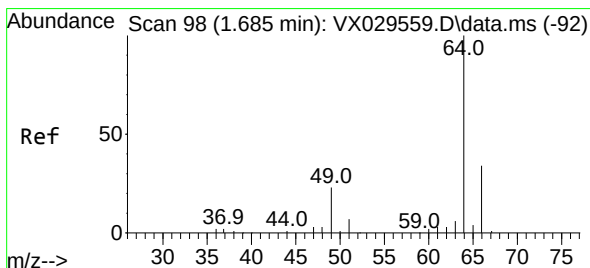
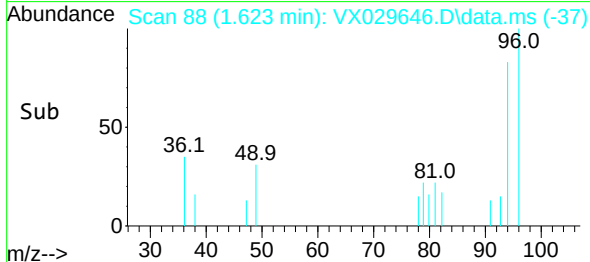
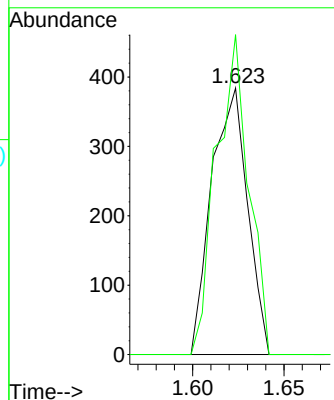
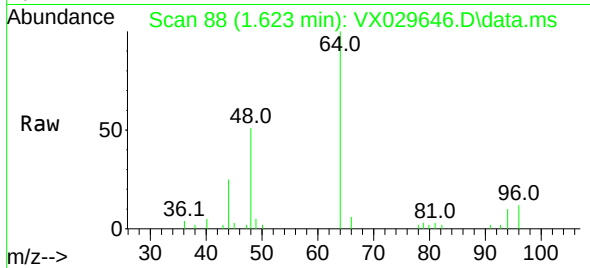




#5
Bromomethane
Concen: 0.329 ug/l
RT: 1.623 min Scan# 81
Delta R.T. 0.012 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

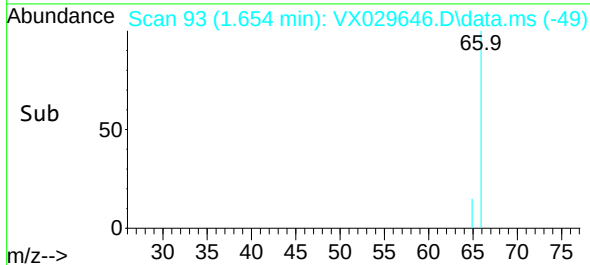
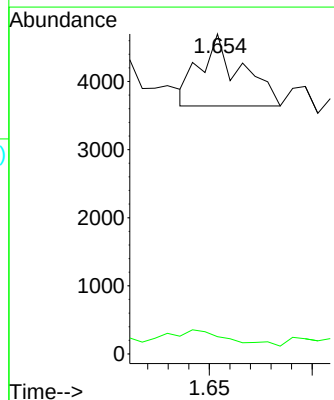
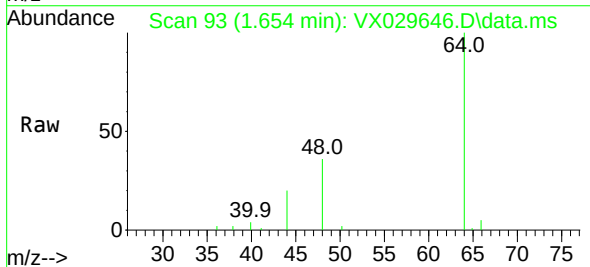
Instrument :
MSVOA_X
ClientSampleId :
MW-53

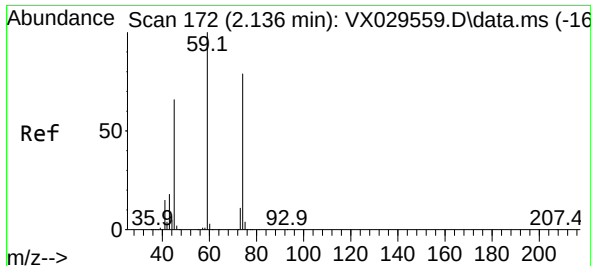
Tgt Ion: 94 Resp: 526
Ion Ratio Lower Upper
94 100
96 120.1 75.3 112.9#



#6
Chloroethane
Concen: 1.869 ug/l
RT: 1.654 min Scan# 93
Delta R.T. -0.031 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 64 Resp: 1452
Ion Ratio Lower Upper
64 100
66 13.1 25.3 37.9#

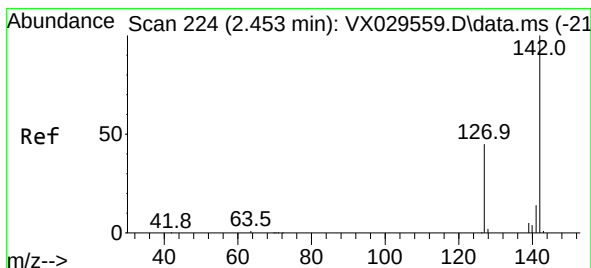
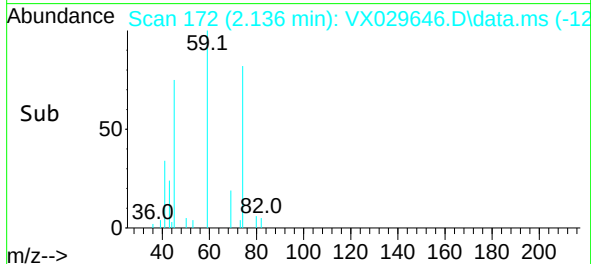
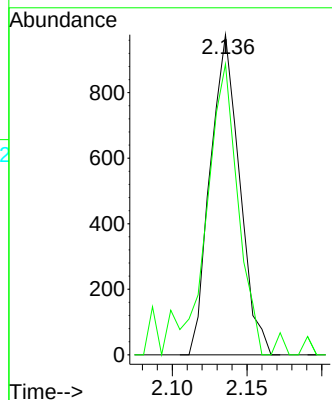
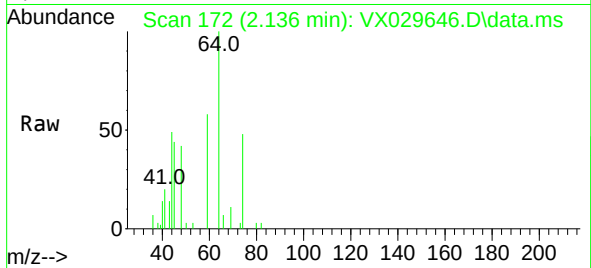




#8
Diethyl Ether
Concen: 0.774 ug/l
RT: 2.136 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

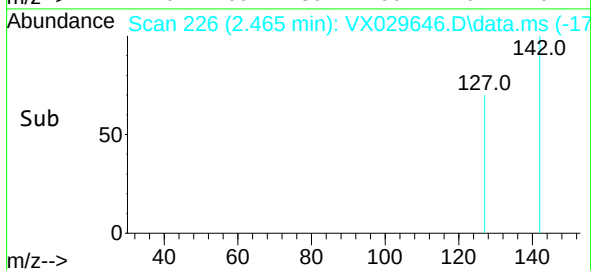
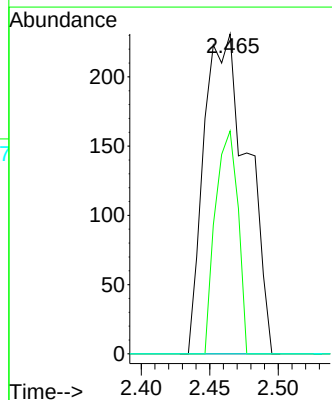
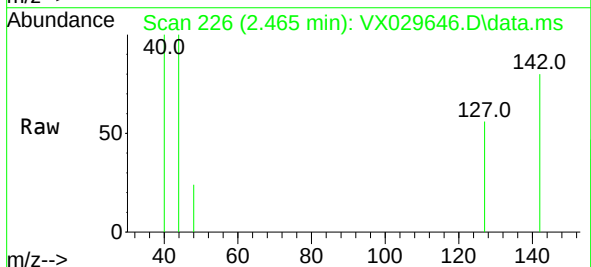
Instrument :
MSVOA_X
ClientSampleId :
MW-53

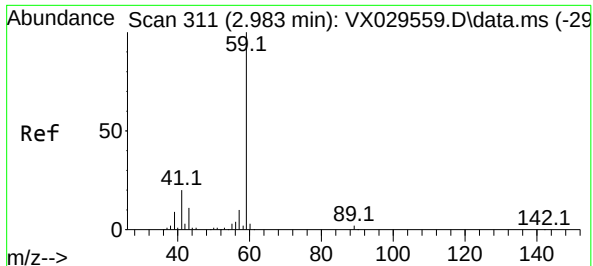
Tgt Ion: 74 Resp: 1332
Ion Ratio Lower Upper
74 100
45 99.0 42.0 126.0



#10
Methyl Iodide
Concen: 3.171 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.012 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 142 Resp: 509
Ion Ratio Lower Upper
142 100
127 36.1 33.9 50.9
141 0.0 11.4 17.2#

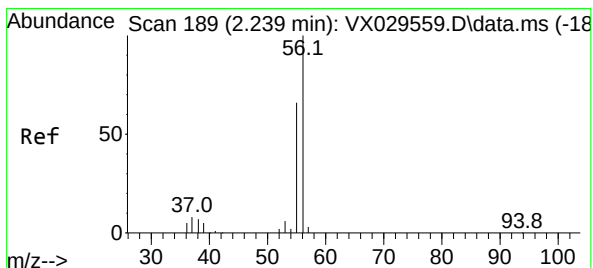
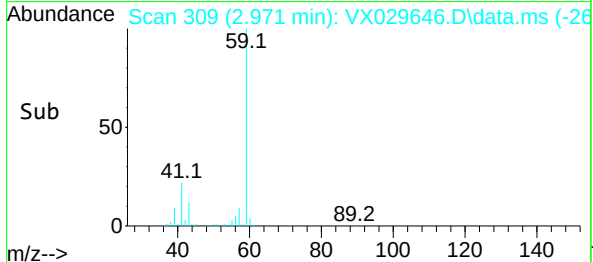
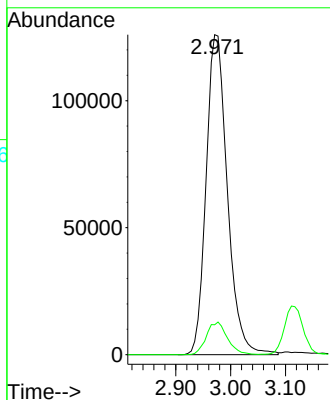
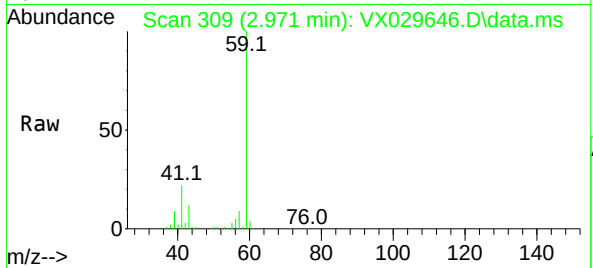




#11
Tert butyl alcohol
Concen: 458.388 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.012 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

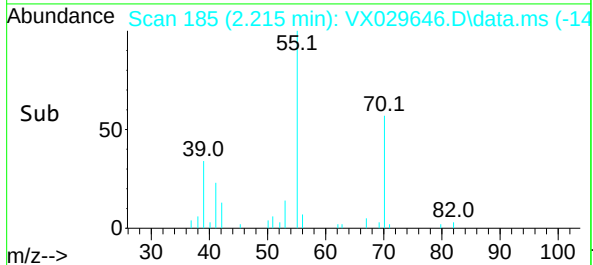
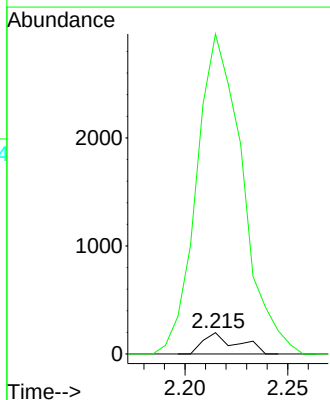
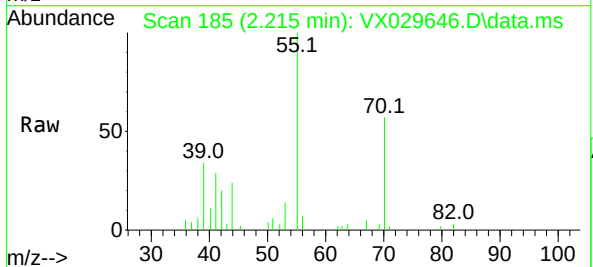
Instrument :
MSVOA_X
ClientSampleId :
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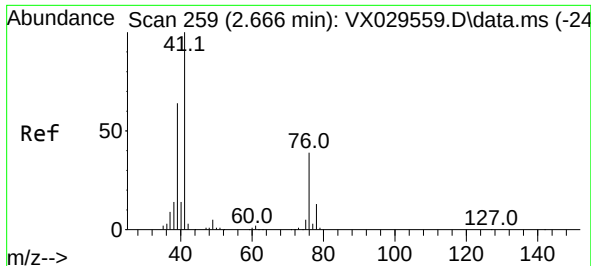
Tgt Ion: 59 Resp: 339135
Ion Ratio Lower Upper
59 100
57 10.1 8.3 12.5



#13
Acrolein
Concen: 1.178 ug/l
RT: 2.215 min Scan# 185
Delta R.T. -0.024 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 56 Resp: 224
Ion Ratio Lower Upper
56 100
55 2057.6 55.0 82.6#

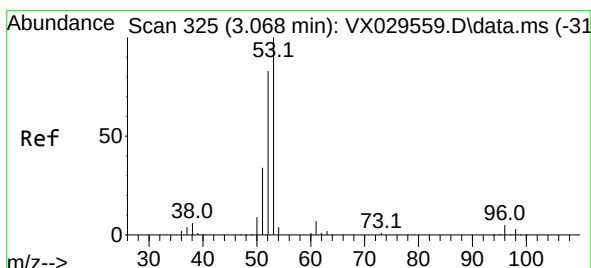
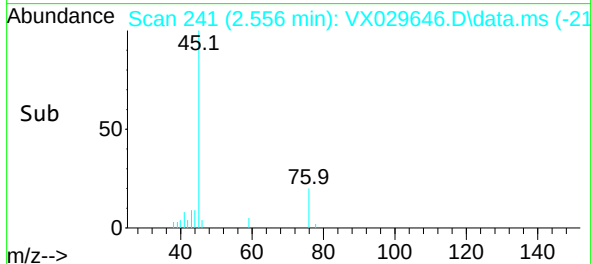
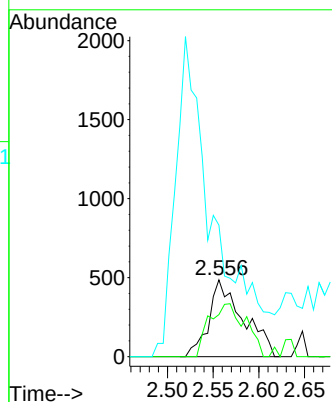
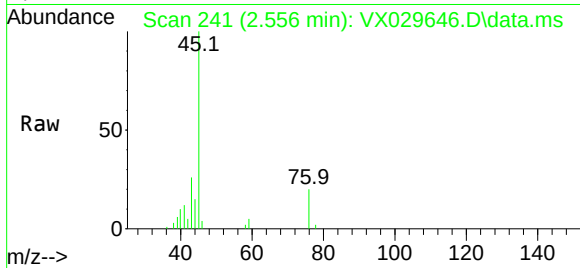




#14
 Allyl chloride
 Concen: 0.295 ug/l
 RT: 2.556 min Scan# 241
 Delta R.T. -0.110 min
 Lab File: VX029646.D
 Acq: 21 Jun 2022 07:18

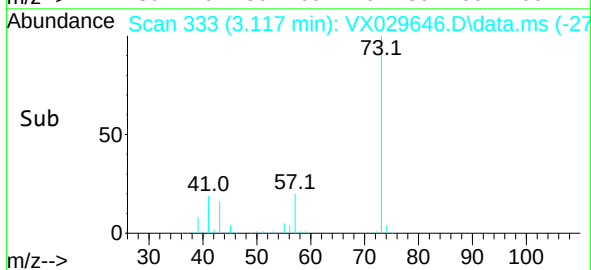
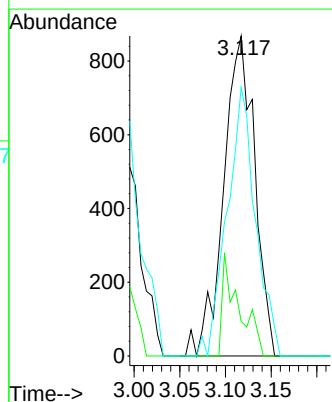
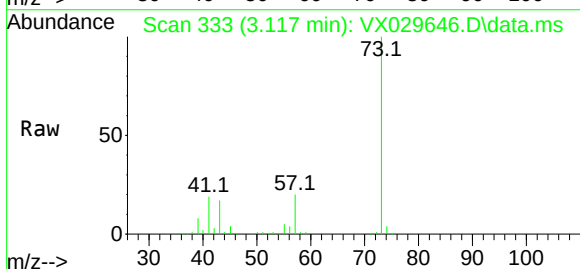
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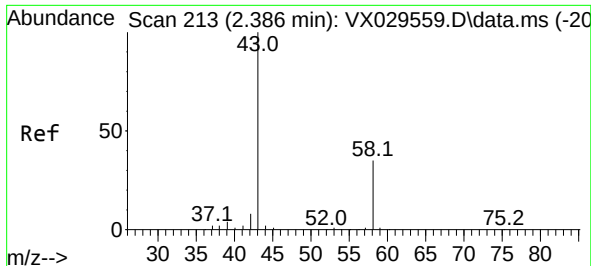
Tgt Ion: 41 Resp: 1258
 Ion Ratio Lower Upper
 41 100
 39 73.6 50.4 75.6
 76 0.0 32.7 49.1#



#15
 Acrylonitrile
 Concen: 1.271 ug/l
 RT: 3.117 min Scan# 333
 Delta R.T. 0.049 min
 Lab File: VX029646.D
 Acq: 21 Jun 2022 07:18

Tgt Ion: 53 Resp: 2053
 Ion Ratio Lower Upper
 53 100
 52 17.2 65.7 98.5#
 51 76.9 28.4 42.6#

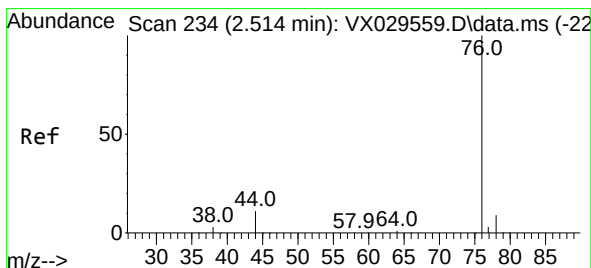
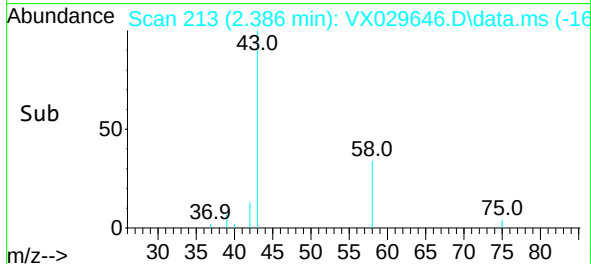
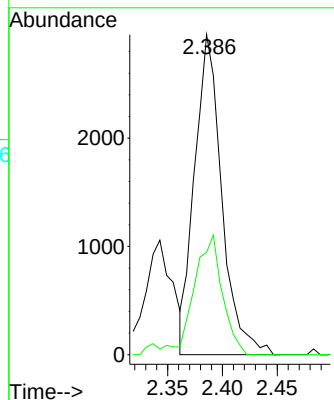
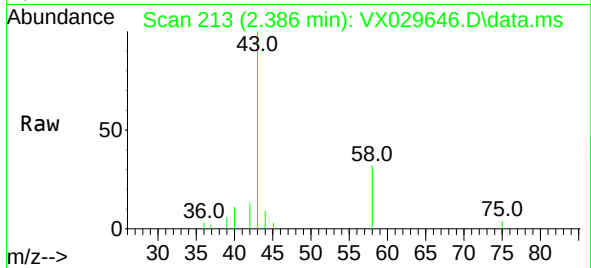




#16
Acetone
Concen: 3.692 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

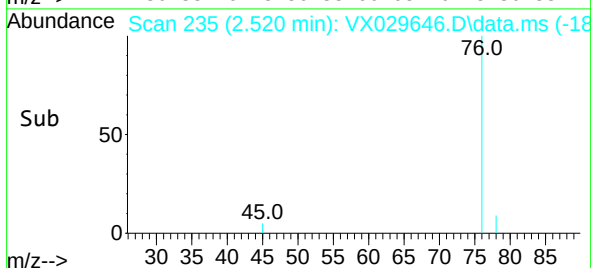
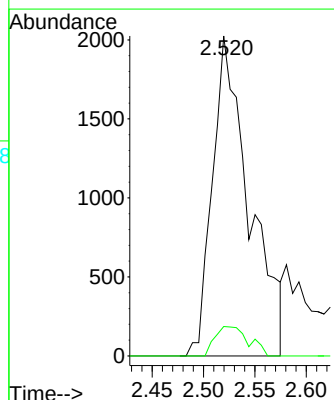
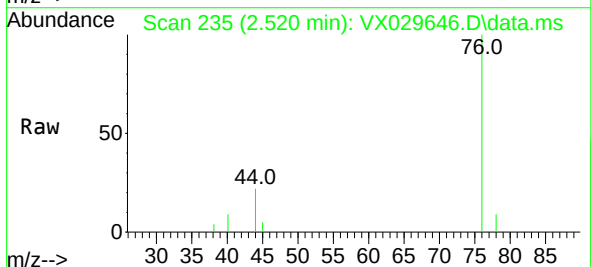
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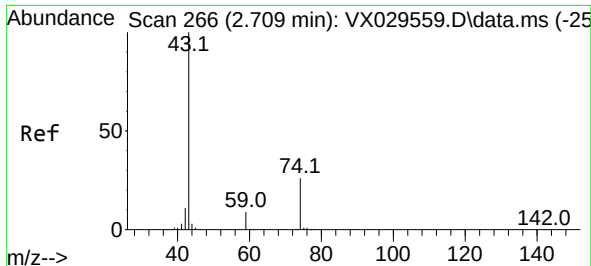
Tgt Ion: 43 Resp: 5082
Ion Ratio Lower Upper
43 100
58 32.0 28.8 43.2



#17
Carbon Disulfide
Concen: 0.739 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.006 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 76 Resp: 5063
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8

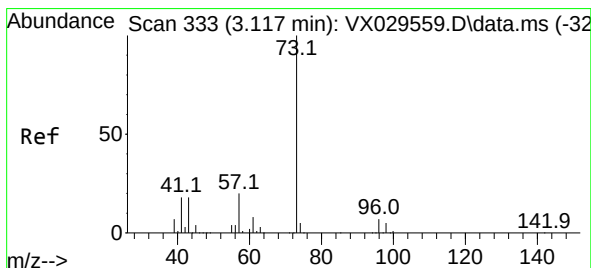
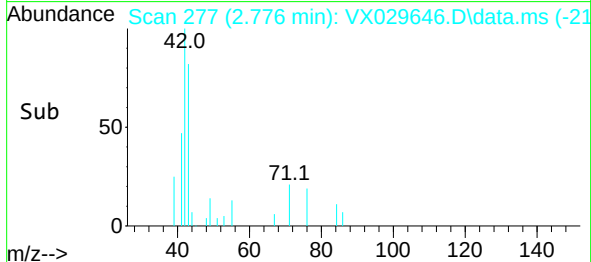
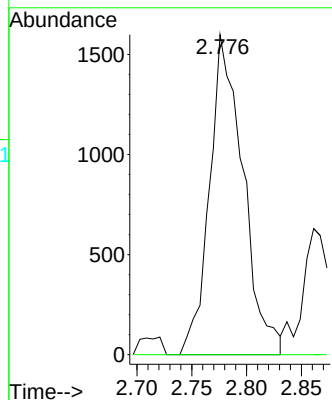
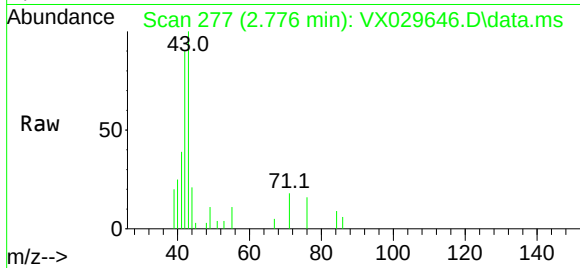




#18
Methyl Acetate
Concen: 0.935 ug/l
RT: 2.776 min Scan# 21
Delta R.T. 0.067 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

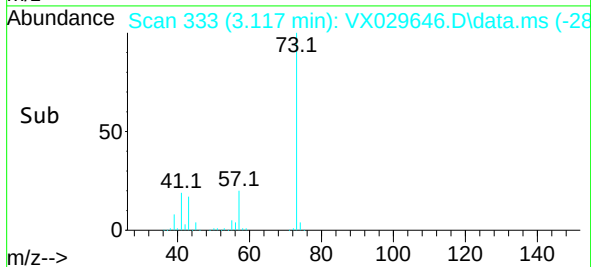
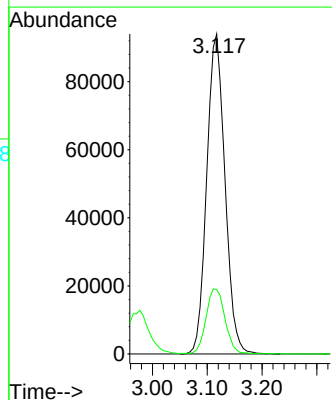
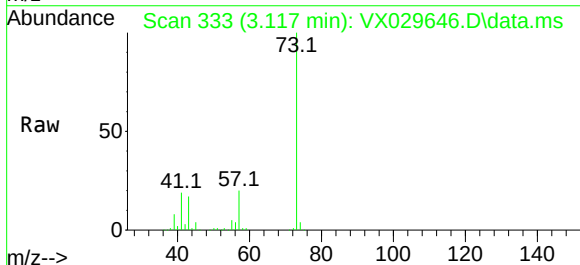
Instrument :
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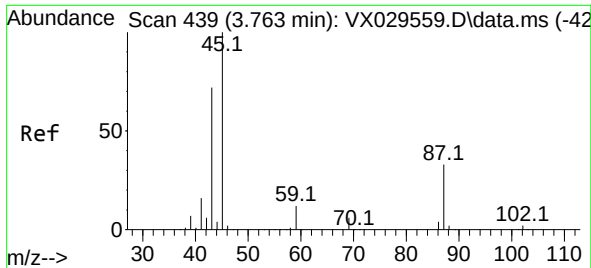
Tgt Ion: 43 Resp: 3401
Ion Ratio Lower Upper
43 100
74 0.0 22.8 34.2#



#19
Methyl tert-butyl Ether
Concen: 23.592 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 73 Resp: 216460
Ion Ratio Lower Upper
73 100
57 20.1 16.8 25.2

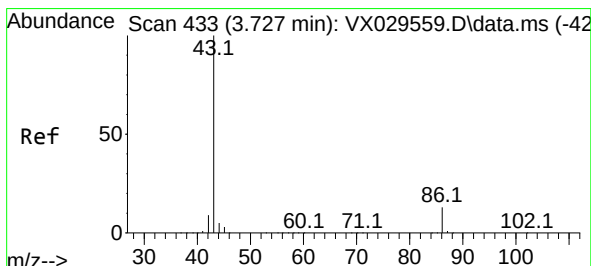
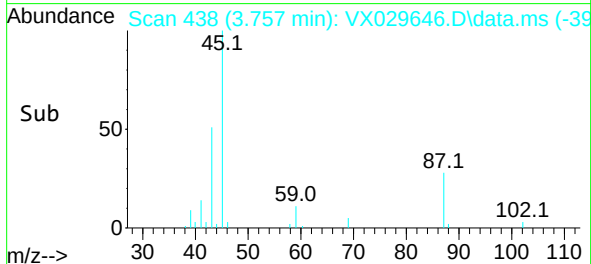
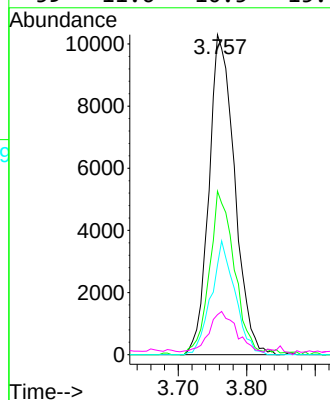
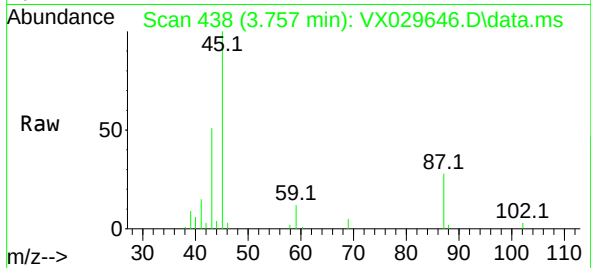




#22
Diisopropyl ether
Concen: 3.170 ug/l
RT: 3.757 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

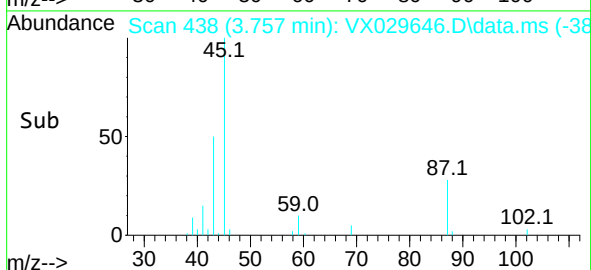
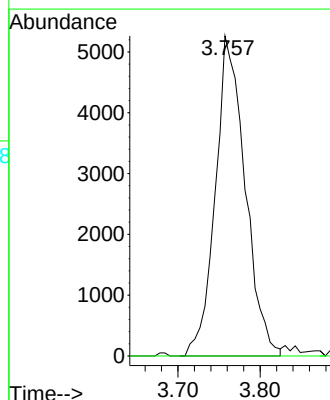
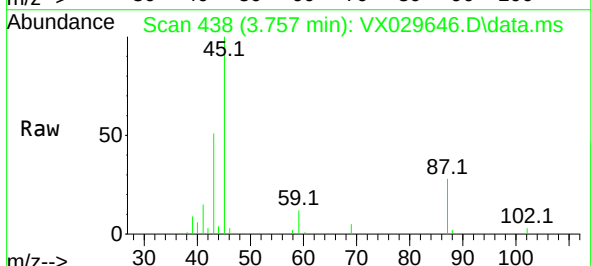
Instrument :
MSVOA_X
ClientSampleId :
MW-53

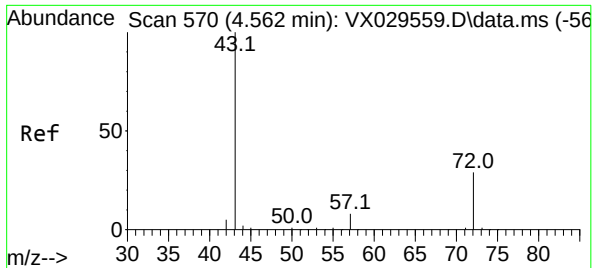
Tgt Ion: 45	Resp: 26755
Ion Ratio	Lower Upper
45 100	
43 51.1	50.8 76.2
87 28.0	26.6 39.8
59 11.6	10.5 15.7



#23
Vinyl Acetate
Concen: 1.880 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.030 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 43	Resp: 13247
Ion Ratio	Lower Upper
43 100	
86 0.0	10.8 16.2#





#25

2-Butanone

Concen: 0.238 ug/l

RT: 4.592 min Scan# 518

Delta R.T. 0.030 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

Instrument :

MSVOA_X

ClientSampleId :

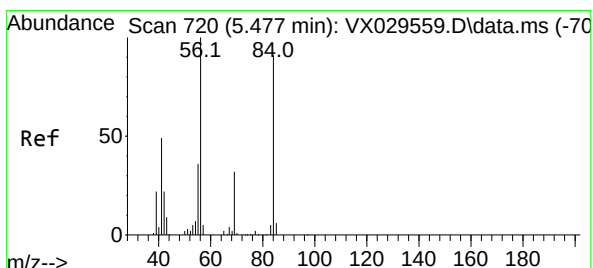
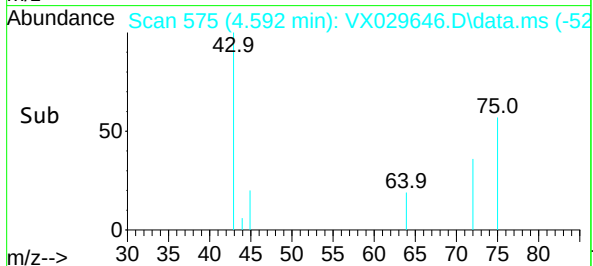
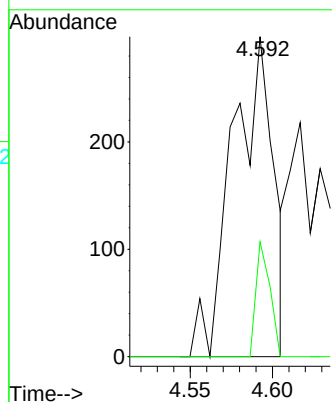
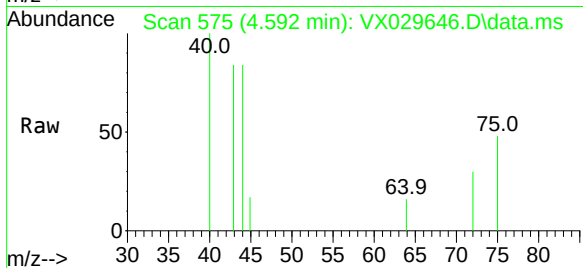
MW-53

Tgt Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

72 35.9 24.4 36.6



#31

Cyclohexane

Concen: 0.838 ug/l

RT: 5.464 min Scan# 718

Delta R.T. -0.013 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

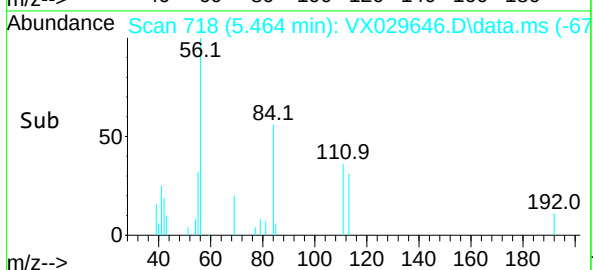
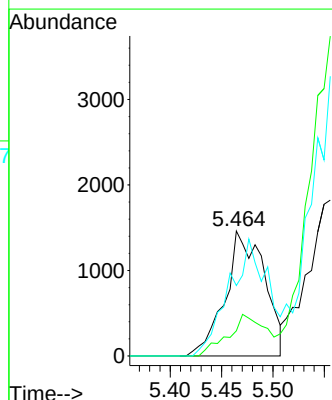
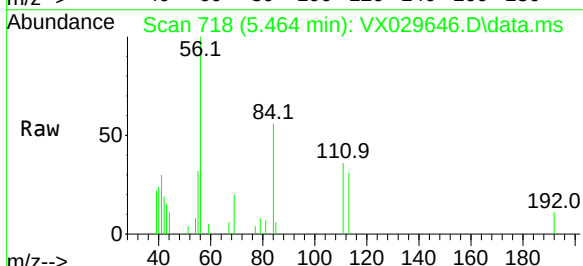
Tgt Ion: 56 Resp: 3886

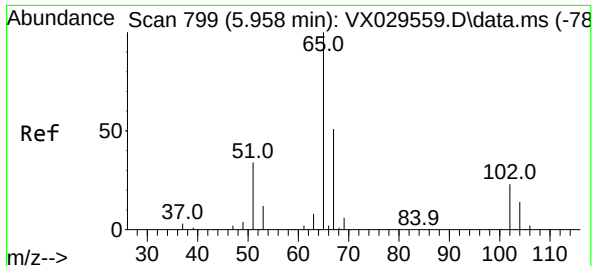
Ion Ratio Lower Upper

56 100

69 20.2 26.7 40.1#

84 56.3 77.2 115.8#





#33

1,2-Dichloroethane-d4

Concen: 44.198 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

Instrument :

MSVOA_X

ClientSampleId :

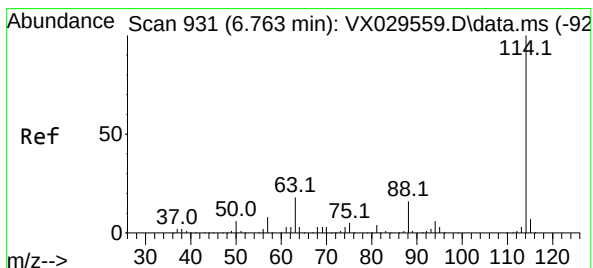
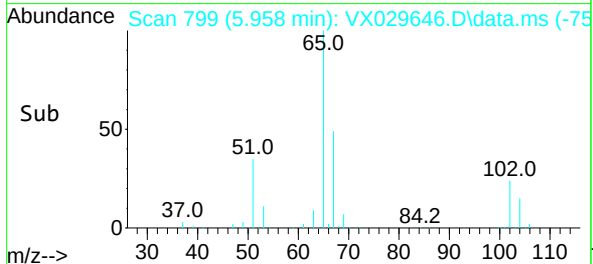
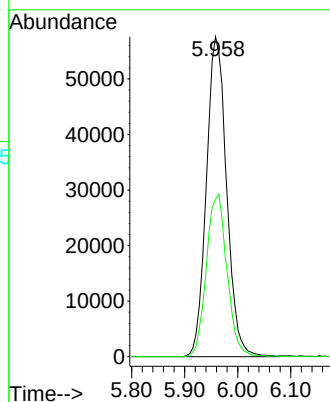
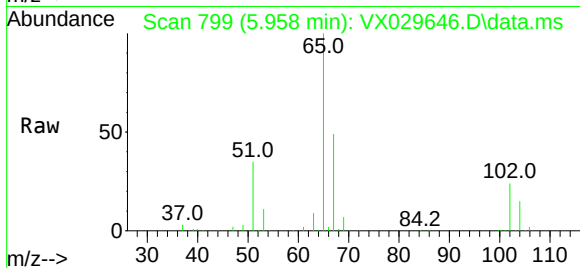
MW-53

Tgt Ion: 65 Resp: 152620

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

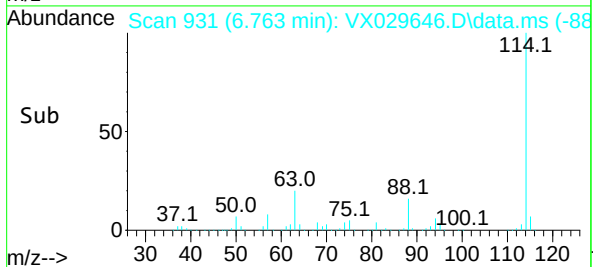
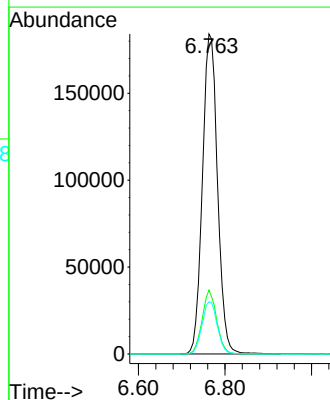
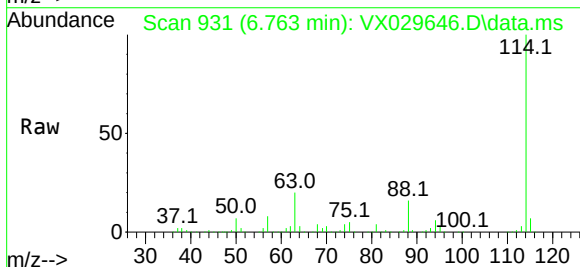
Tgt Ion: 114 Resp: 445562

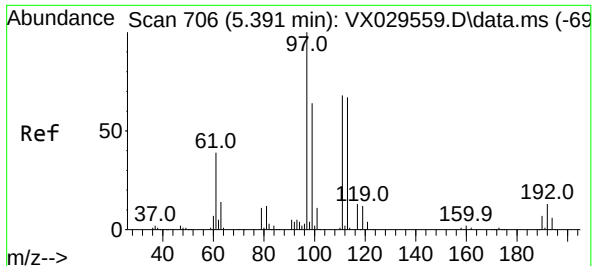
Ion Ratio Lower Upper

114 100

63 19.9 0.0 36.8

88 16.3 0.0 32.4





#35

Dibromofluoromethane

Concen: 45.390 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

Instrument :

MSVOA_X

ClientSampleId :

MW-53

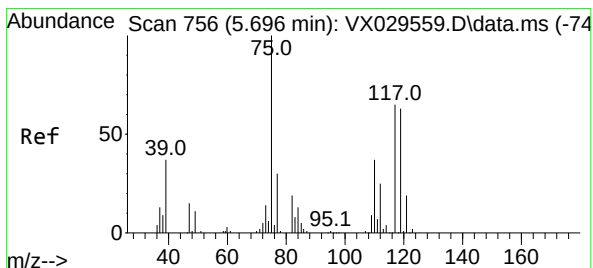
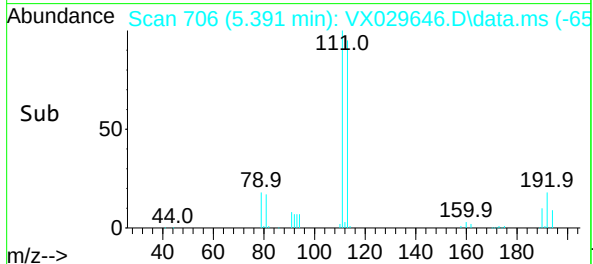
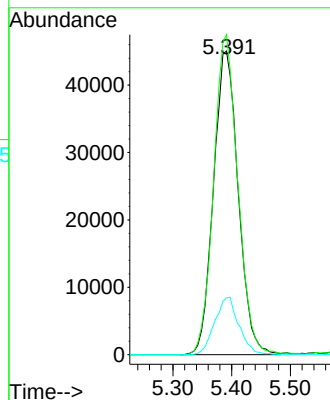
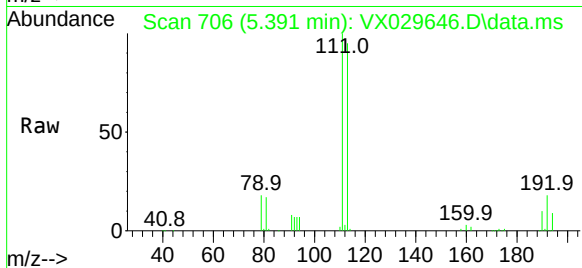
Tgt Ion:113 Resp: 131797

Ion Ratio Lower Upper

113 100

111 103.3 82.8 124.2

192 18.5 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.990 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

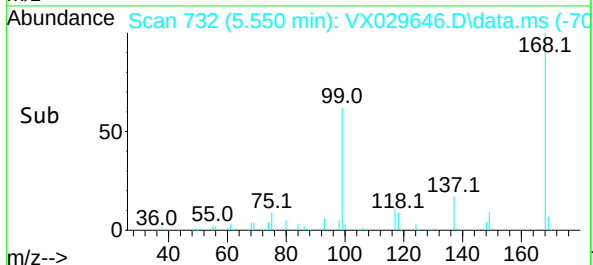
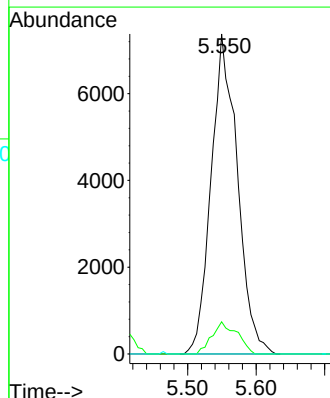
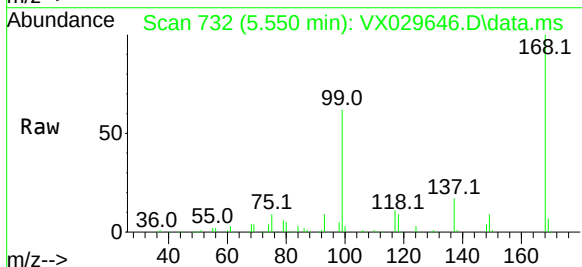
Tgt Ion: 75 Resp: 19609

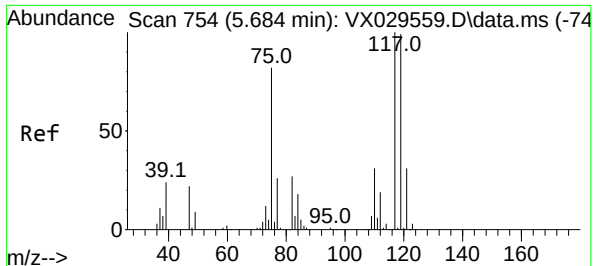
Ion Ratio Lower Upper

75 100

110 9.6 18.3 54.8#

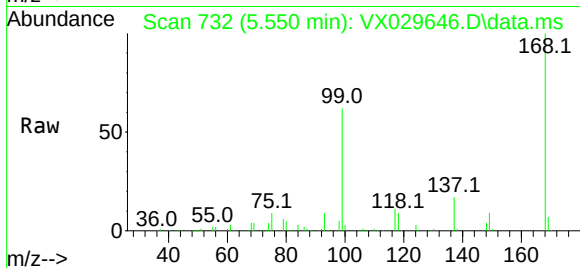
77 0.0 24.8 37.2#



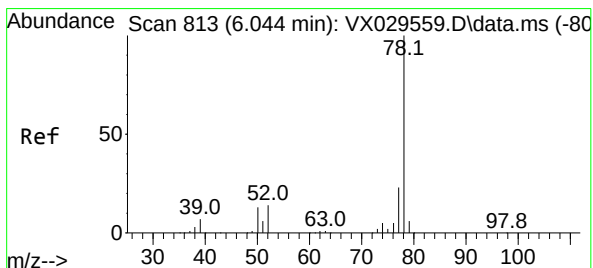
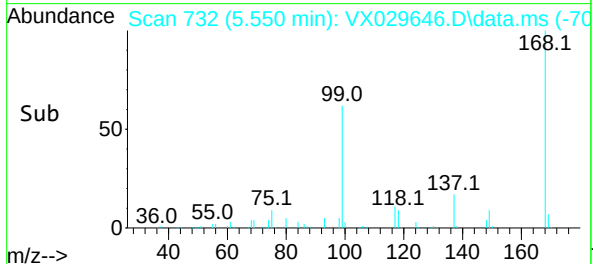
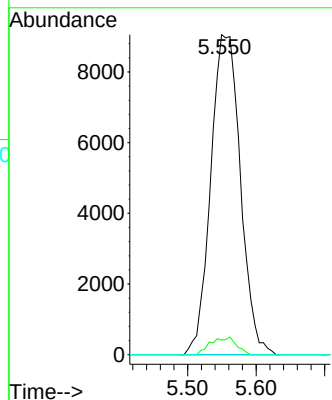


#38
Carbon Tetrachloride
Concen: 7.042 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Instrument :
MSVOA_X
ClientSampleId :
MW-53

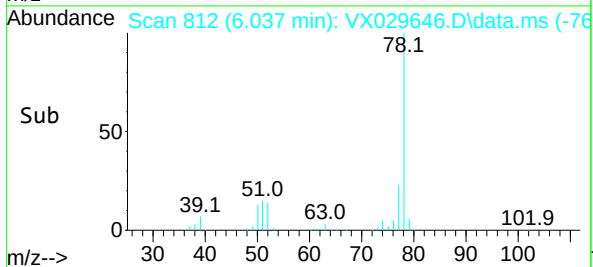
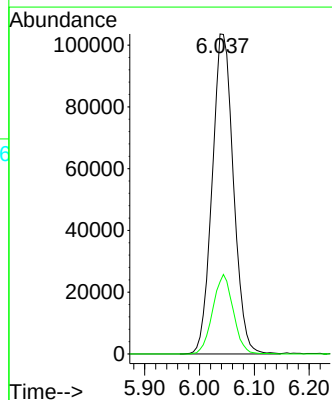
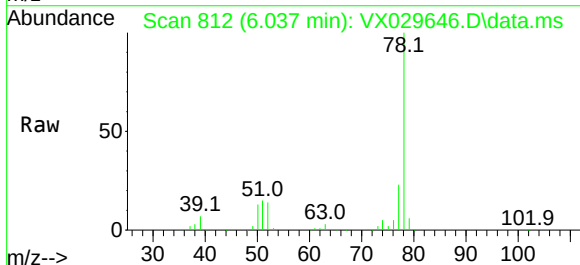


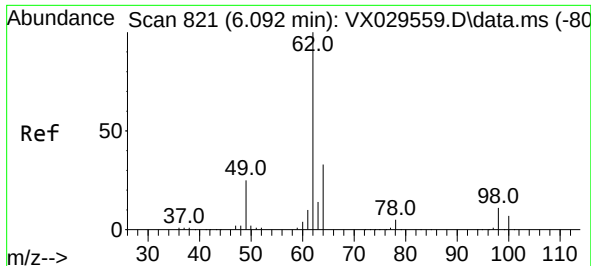
Tgt Ion:117 Resp: 27215
Ion Ratio Lower Upper
117 100
119 4.5 77.3 115.9#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 23.971 ug/l
RT: 6.037 min Scan# 812
Delta R.T. -0.007 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 78 Resp: 279250
Ion Ratio Lower Upper
78 100
77 22.5 19.3 28.9





#42

1,2-Dichloroethane

Concen: 0.673 ug/l

RT: 6.050 min Scan# 81

Delta R.T. -0.042 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

Instrument :

MSVOA_X

ClientSampleId :

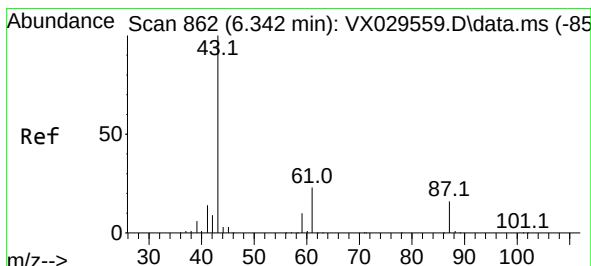
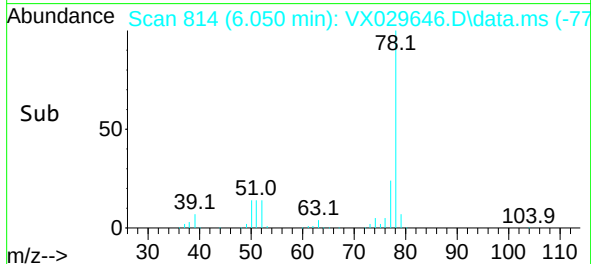
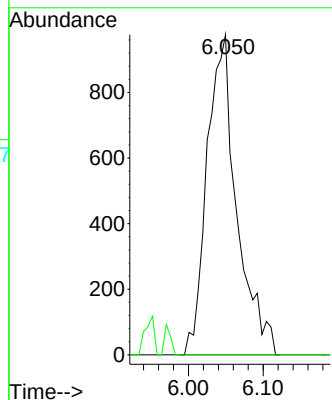
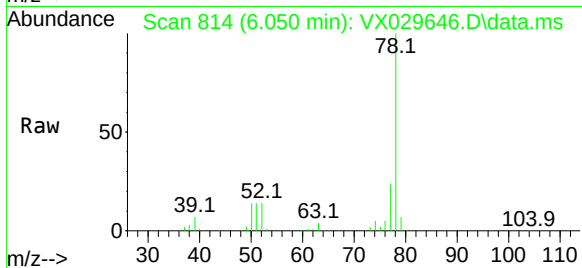
MW-53

Tgt Ion: 62 Resp: 2697

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4



#43

Isopropyl Acetate

Concen: 5.798 ug/l

RT: 6.245 min Scan# 846

Delta R.T. -0.097 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

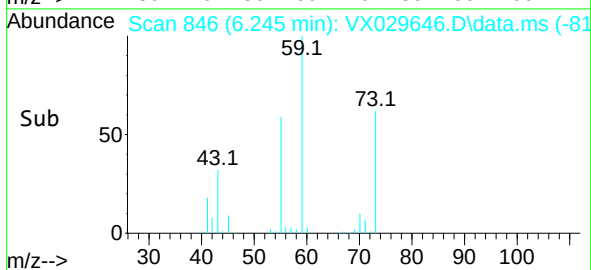
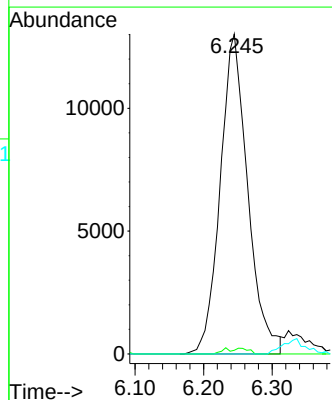
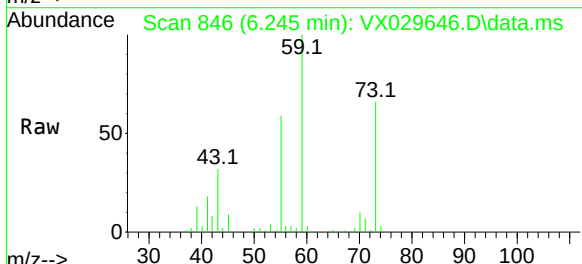
Tgt Ion: 43 Resp: 36318

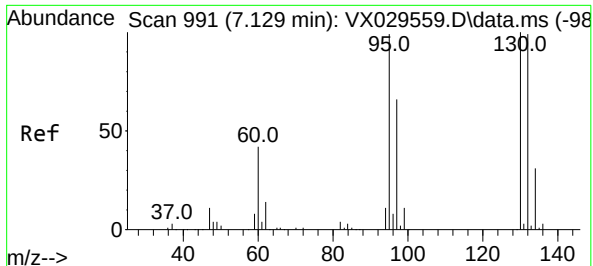
Ion Ratio Lower Upper

43 100

61 0.9 18.5 27.7#

87 0.0 13.0 19.6#

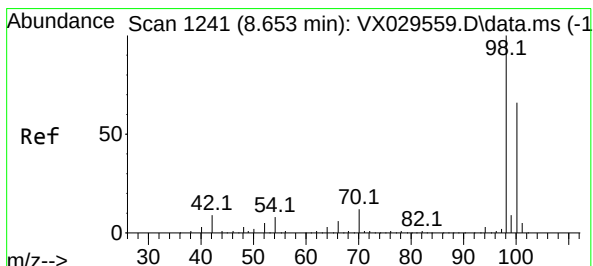
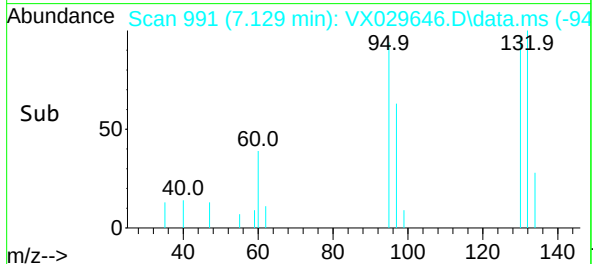
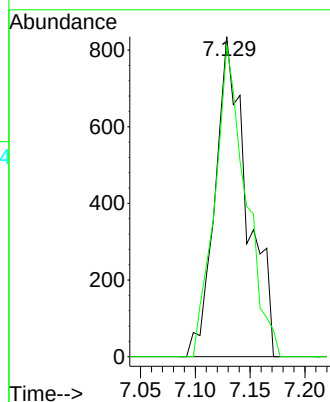
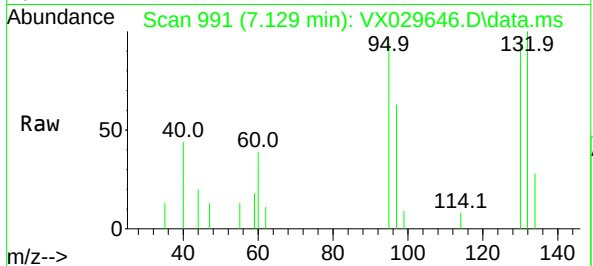




#44
Trichloroethene
Concen: Below Cal
RT: 7.129 min Scan# 991
Delta R.T. -0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

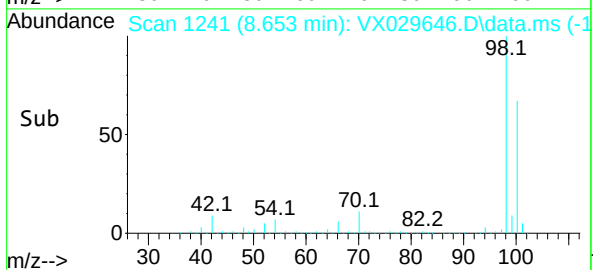
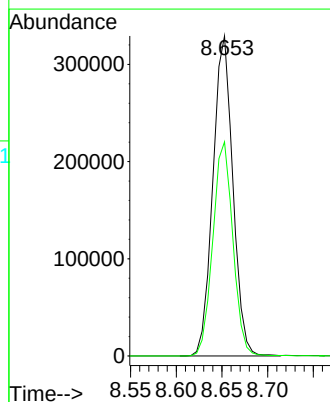
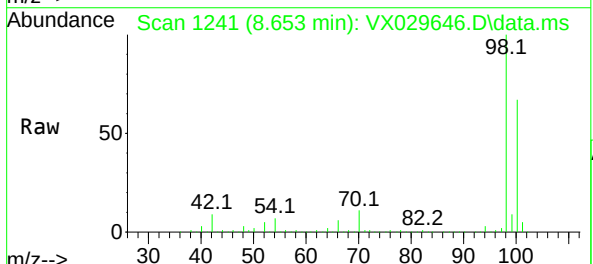
Instrument :
MSVOA_X
ClientSampleId :
MW-53

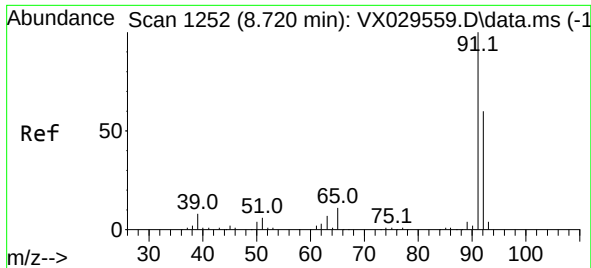
Tgt Ion:130 Resp: 1699
Ion Ratio Lower Upper
130 100
95 97.2 0.0 188.8



#50
Toluene-d8
Concen: 47.096 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 98 Resp: 499579
Ion Ratio Lower Upper
98 100
100 67.2 52.6 78.8

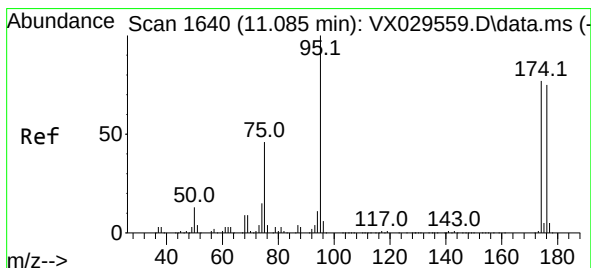
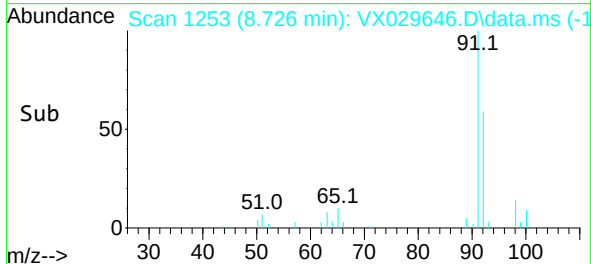
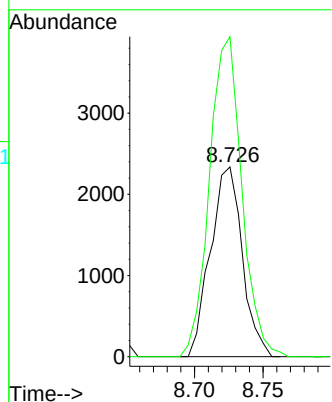
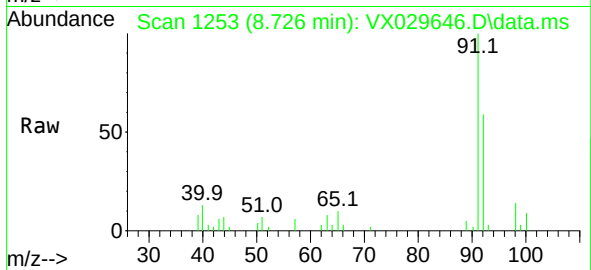




#52
Toluene
Concen: 0.506 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

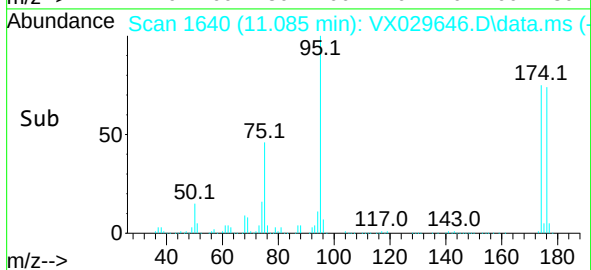
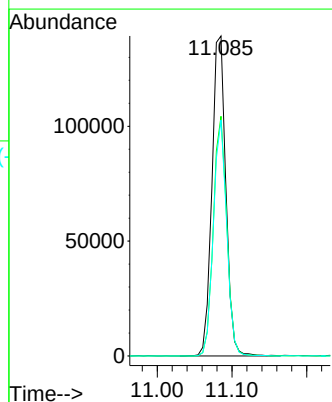
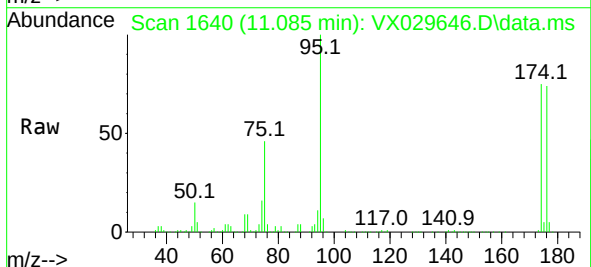
Instrument :
MSVOA_X
ClientSampleId :
MW-53

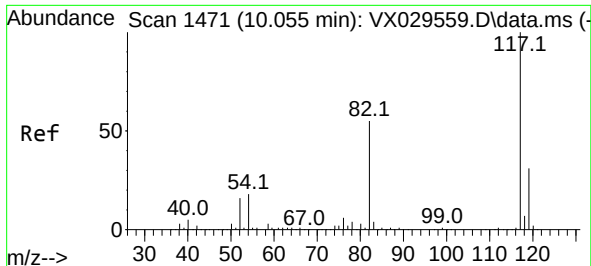
Tgt Ion: 92 Resp: 3775
Ion Ratio Lower Upper
92 100
91 171.5 137.5 206.3



#62
4-Bromofluorobenzene
Concen: 45.085 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 95 Resp: 180353
Ion Ratio Lower Upper
95 100
174 72.0 0.0 163.0
176 70.3 0.0 155.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX029646.D

Acq: 21 Jun 2022 07:18

Instrument :

MSVOA_X

ClientSampleId :

MW-53

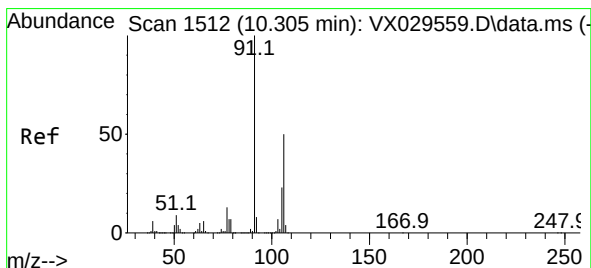
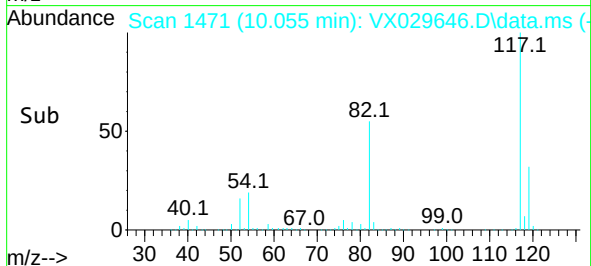
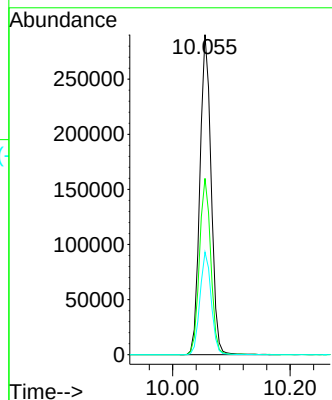
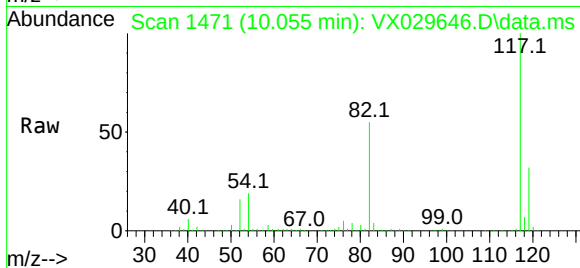
Tgt Ion:117 Resp: 384120

Ion Ratio Lower Upper

117 100

82 55.1 41.8 62.8

119 32.0 24.8 37.2



#68

m/p-Xylenes

Concen: 0.203 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. -0.000 min

Lab File: VX029646.D

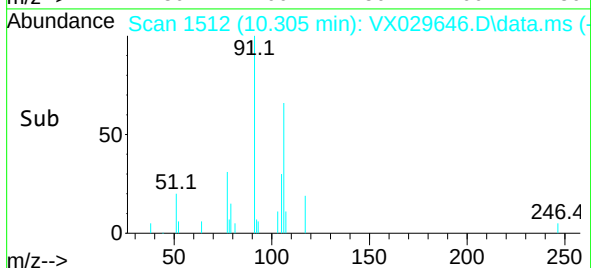
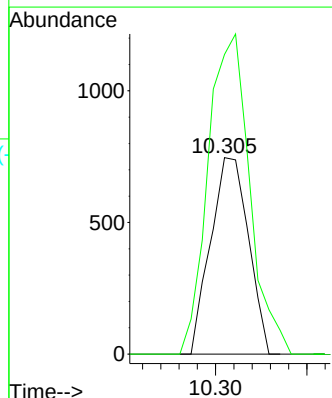
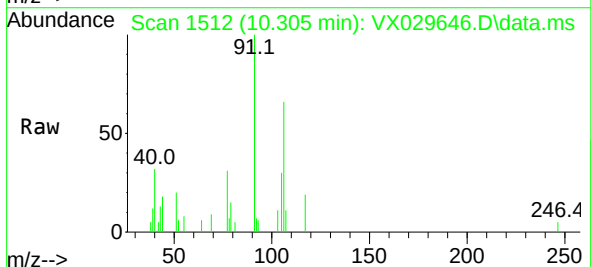
Acq: 21 Jun 2022 07:18

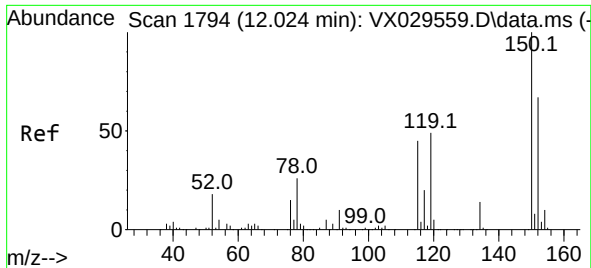
Tgt Ion:106 Resp: 1075

Ion Ratio Lower Upper

106 100

91 178.6 160.4 240.6

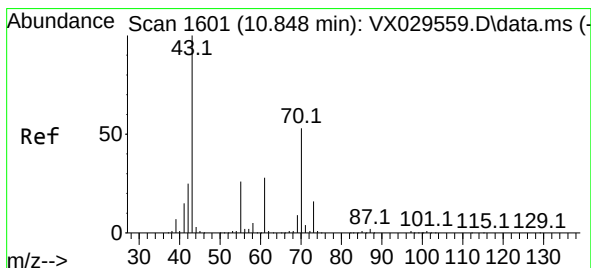
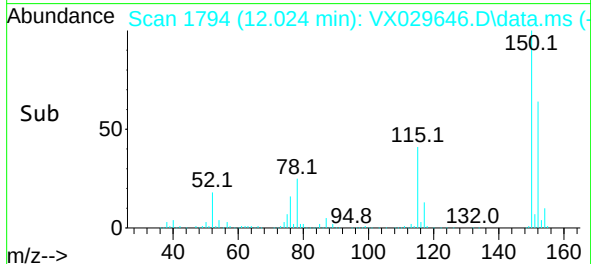
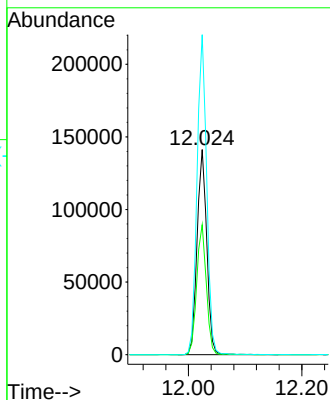
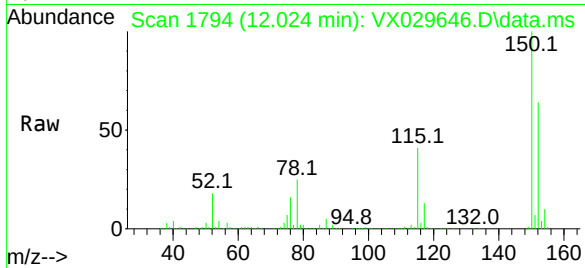




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

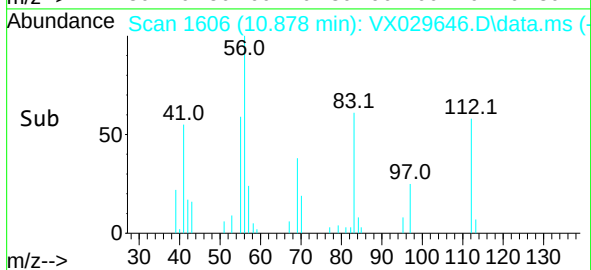
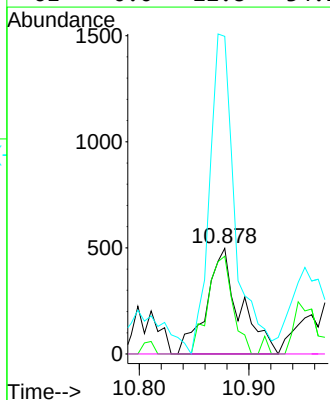
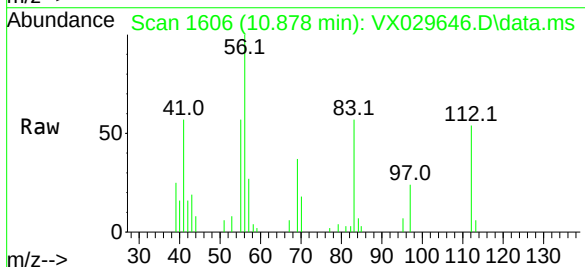
Instrument :
MSVOA_X
ClientSampleId :
MW-53

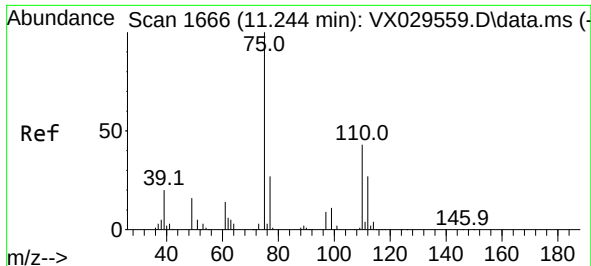
Tgt Ion:152 Resp: 167349
Ion Ratio Lower Upper
152 100
115 63.1 37.5 112.7
150 155.1 0.0 338.2



#74
N-ethyl acetate
Concen: 0.242 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.030 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 43 Resp: 1053
Ion Ratio Lower Upper
43 100
70 68.9 42.5 63.7#
55 231.1 23.1 34.7#
61 0.0 22.8 34.2#

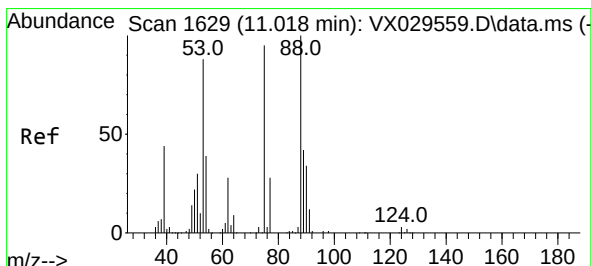
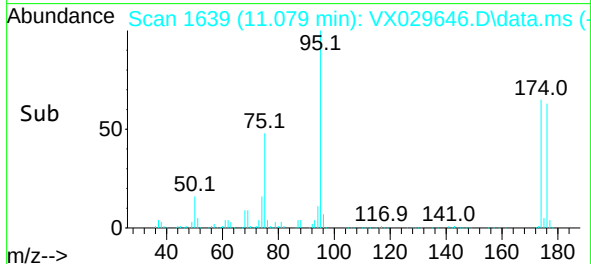
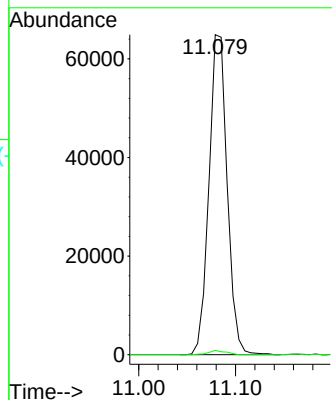
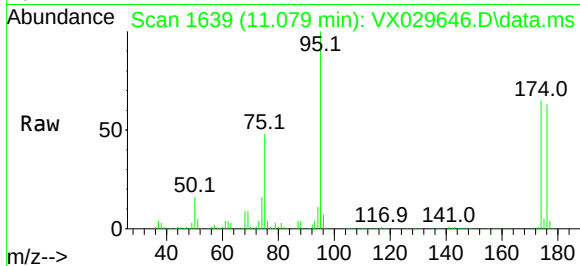




#76
1,2,3-Trichloropropane
Concen: 23.355 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Instrument :
MSVOA_X
ClientSampleId :
MW-53

Tgt Ion: 75 Resp: 85146
Ion Ratio Lower Upper
75 100
77 1.3 19.4 58.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.697 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX029646.D
Acq: 21 Jun 2022 07:18

Tgt Ion: 75 Resp: 85146
Ion Ratio Lower Upper
75 100
53 0.0 69.0 103.4#
89 0.0 37.0 55.6#

