

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042825\
 Data File : VX045949.D
 Acq On : 28 Apr 2025 12:21
 Operator : JC/MD
 Sample : Q1890-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-07

Quant Time: Apr 29 01:33:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

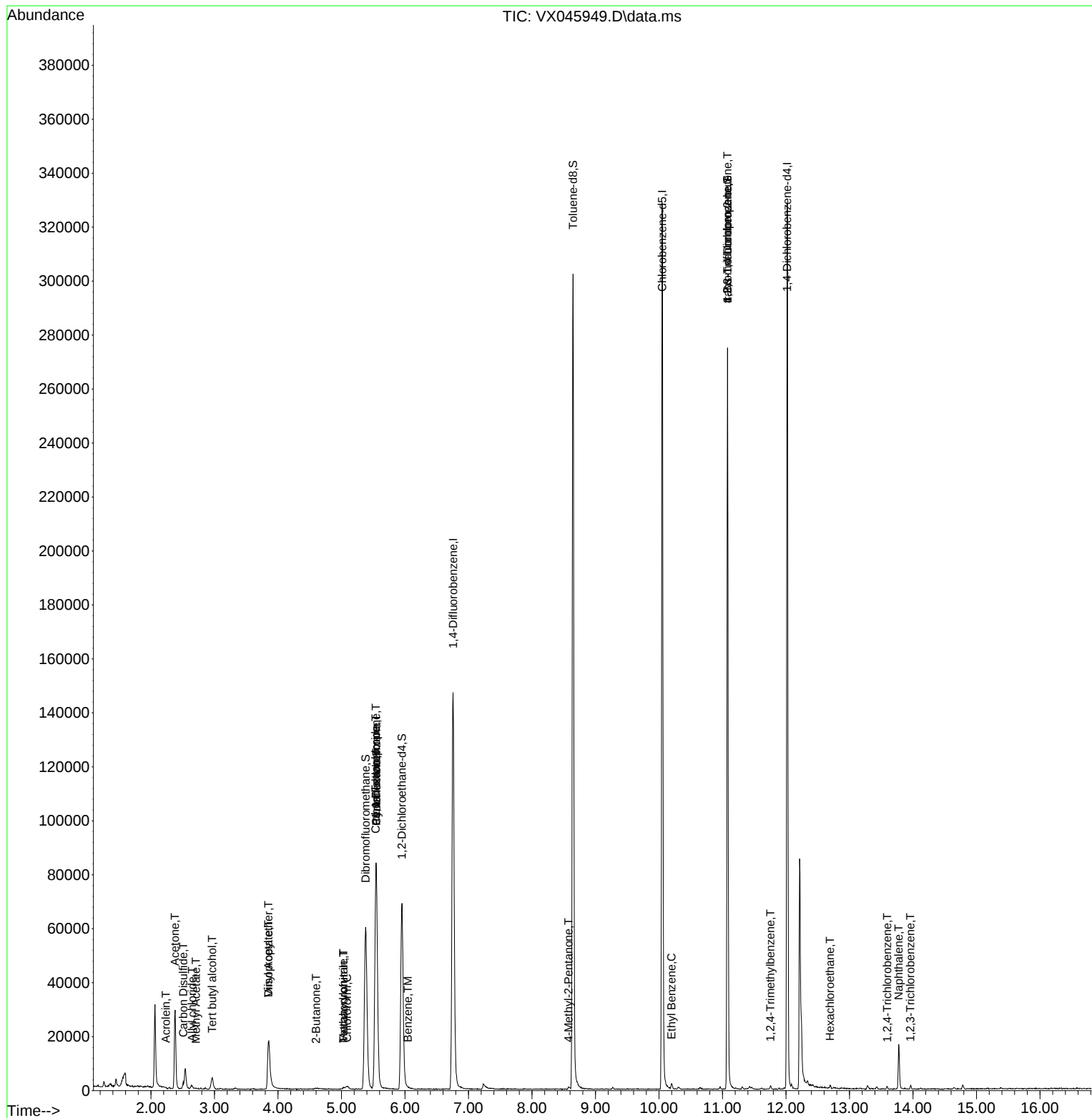
Internal Standards						
1) Pentafluorobenzene	5.550	168	72284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	142090	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	135017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	69917	52.892	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.780%			
35) Dibromofluoromethane	5.379	113	51797	51.379	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.760%			
50) Toluene-d8	8.647	98	177396	50.414	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.820%			
62) 4-Bromofluorobenzene	11.079	95	69394	54.142	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.280%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.965	59	4513	25.404	ug/l	97
13) Acrolein	2.233	56	57	0.233	ug/l #	1
14) Allyl chloride	2.648	41	1488	0.904	ug/l #	36
16) Acetone	2.380	43	31672	58.349	ug/l	97
17) Carbon Disulfide	2.508	76	2567	1.198	ug/l	100
18) Methyl Acetate	2.709	43	669	0.535	ug/l #	68
22) Diisopropyl ether	3.849	45	1284	0.396	ug/l #	1
23) Vinyl Acetate	3.849	43	3568	1.273	ug/l #	74
25) 2-Butanone	4.599	43	537	0.676	ug/l	98
29) Tetrahydrofuran	5.032	42	627	1.217	ug/l #	56
30) Chloroform	5.087	83	1415	0.750	ug/l #	56
31) Cyclohexane	5.550	56	2202	1.358	ug/l #	20
36) 1,1-Dichloropropene	5.544	75	7280	5.348	ug/l #	50
38) Carbon Tetrachloride	5.538	117	8294	5.638	ug/l #	16
40) Benzene	6.044	78	871	0.210	ug/l #	52
41) Methacrylonitrile	5.032	41	280	0.309	ug/l #	37
51) 4-Methyl-2-Pentanone	8.574	43	661	0.384	ug/l	99
67) Ethyl Benzene	10.195	91	1368	0.265	ug/l	97
76) 1,2,3-Trichloropropane	11.079	75	40434	27.978	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	40434	94.954	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.756	105	978	0.248	ug/l	98
90) Hexachloroethane	12.695	117	624	0.923	ug/l #	19
93) 1,2,4-Trichlorobenzene	13.591	180	400	0.362	ug/l	80
95) Naphthalene	13.774	128	11196	2.724	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	412	0.356	ug/l	91

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

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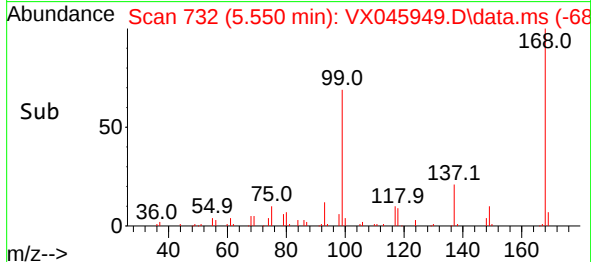
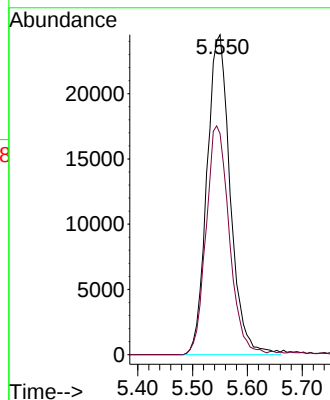
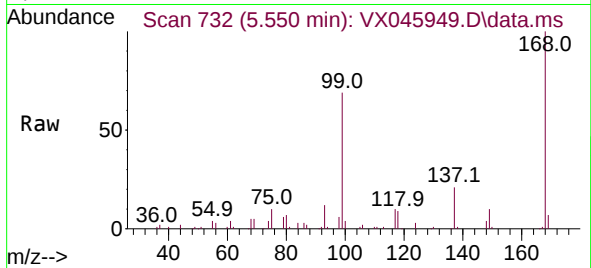




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

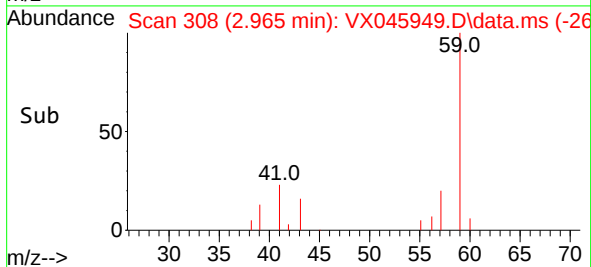
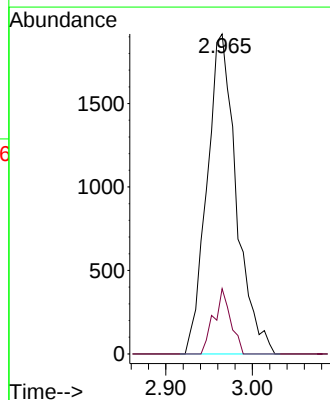
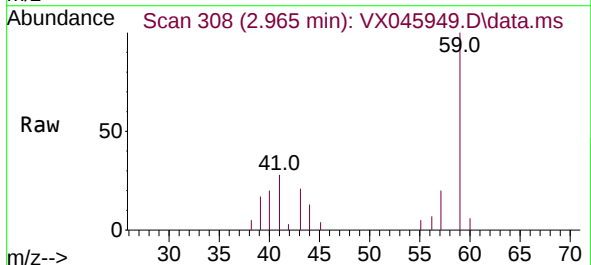
Instrument :
MSVOA_X
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TW-WTS-07

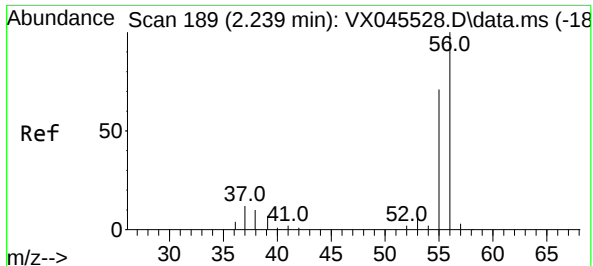
Tgt Ion:168 Resp: 72284
Ion Ratio Lower Upper
168 100
99 69.1 52.3 78.5



#11
Tert butyl alcohol
Concen: 25.404 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 59 Resp: 4513
Ion Ratio Lower Upper
59 100
57 11.7 8.6 12.8

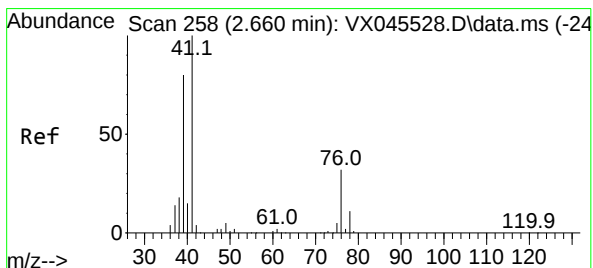
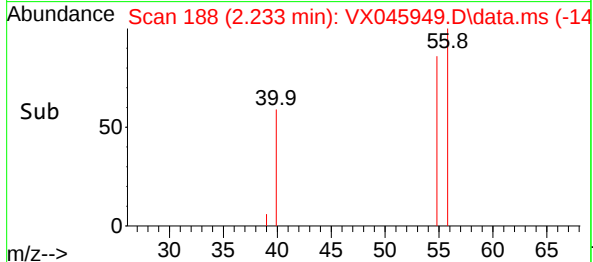
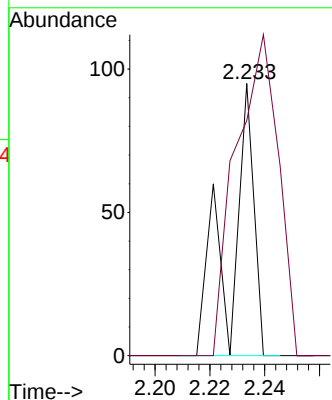
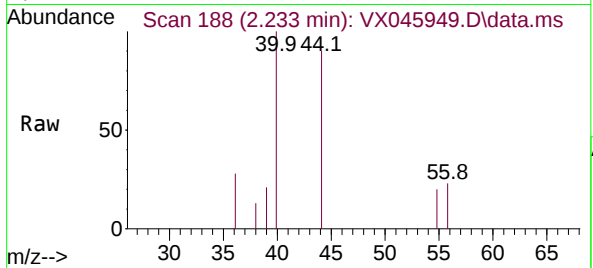




#13
Acrolein
Concen: 0.233 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

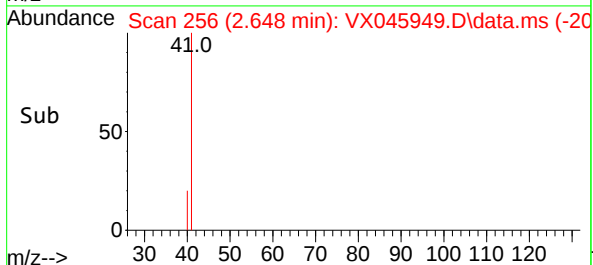
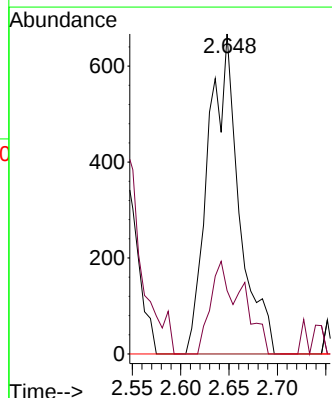
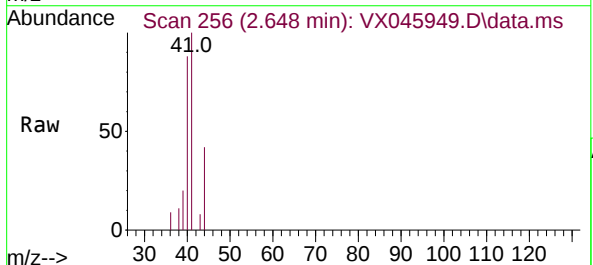
Instrument :
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ClientSampleId :
TW-WTS-07

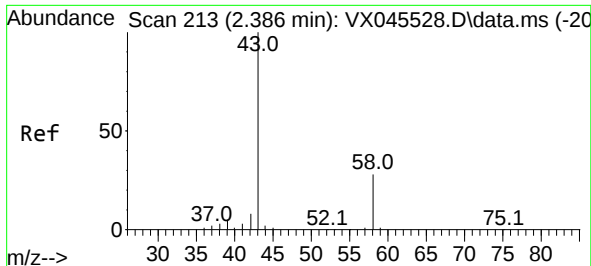
Tgt Ion: 56 Resp: 57
Ion Ratio Lower Upper
56 100
55 210.5 56.2 84.2#



#14
Allyl chloride
Concen: 0.904 ug/l
RT: 2.648 min Scan# 256
Delta R.T. -0.012 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 41 Resp: 1488
Ion Ratio Lower Upper
41 100
39 18.1 60.2 90.2#
76 0.0 24.6 36.8#

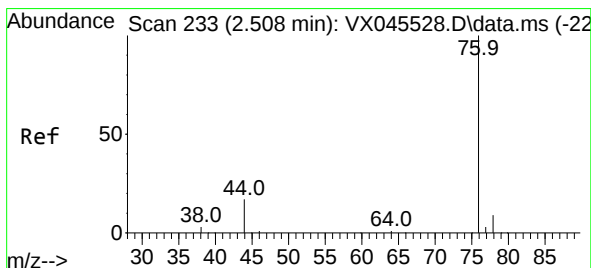
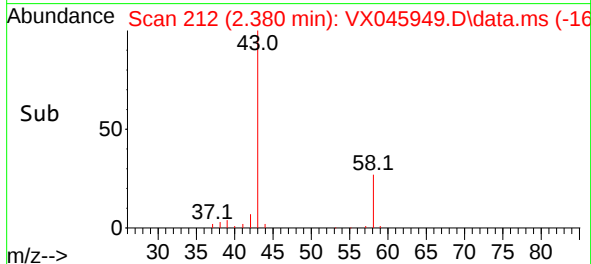
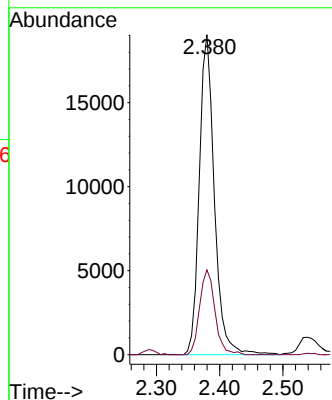
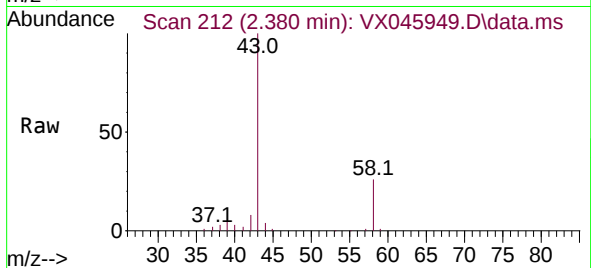




#16
Acetone
Concen: 58.349 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

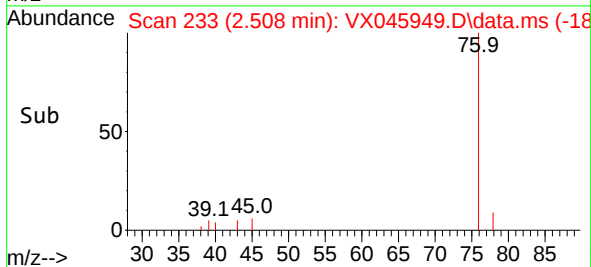
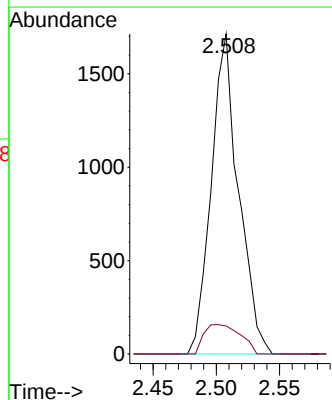
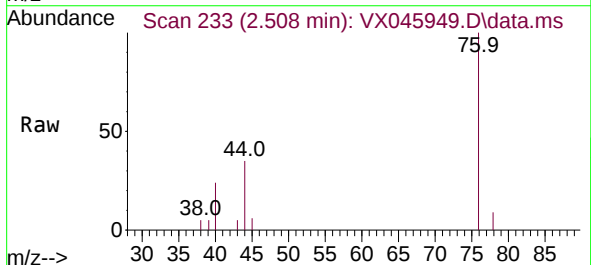
Instrument :
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ClientSampleId :
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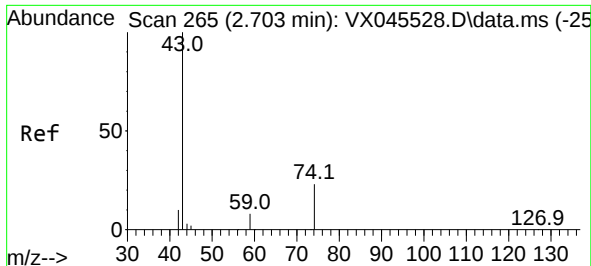
Tgt Ion: 43 Resp: 31672
Ion Ratio Lower Upper
43 100
58 26.5 22.3 33.5



#17
Carbon Disulfide
Concen: 1.198 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 76 Resp: 2567
Ion Ratio Lower Upper
76 100
78 8.8 7.0 10.6

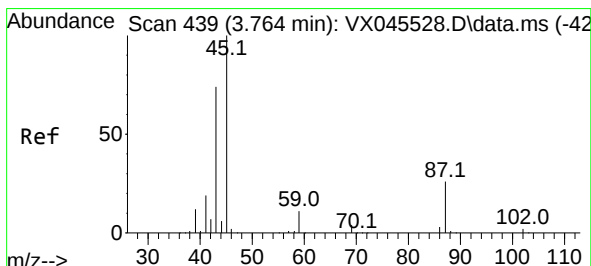
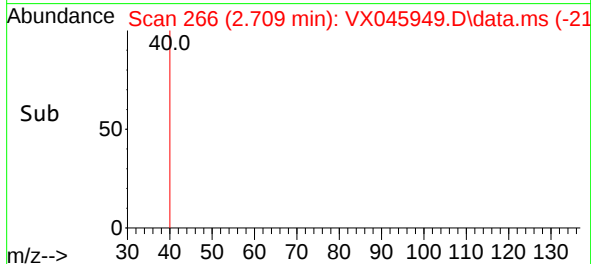
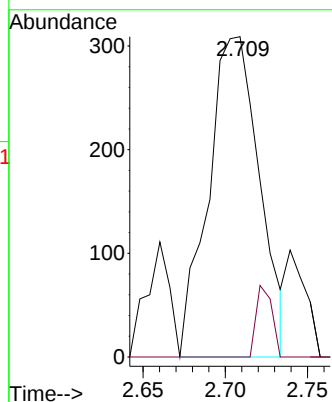
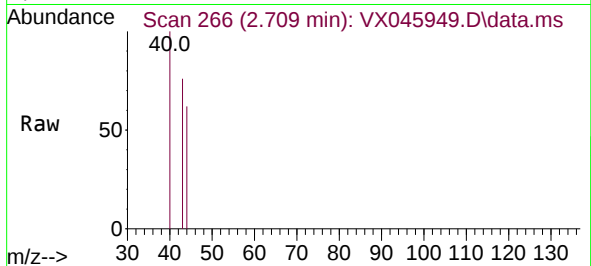




#18
Methyl Acetate
Concen: 0.535 ug/l
RT: 2.709 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

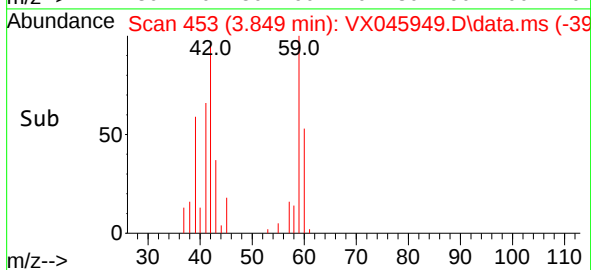
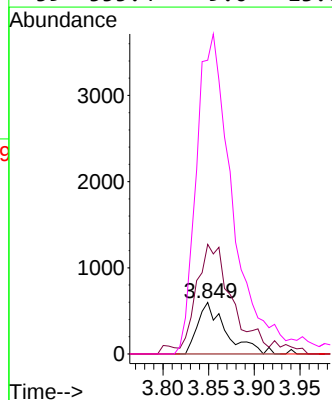
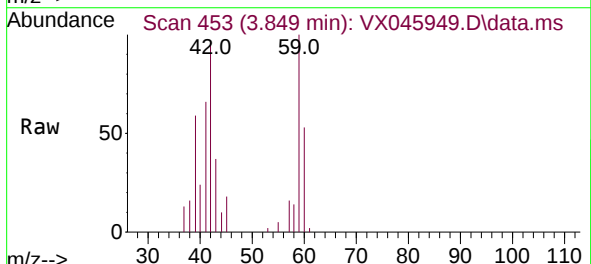
Instrument :
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ClientSampleId :
TW-WTS-07

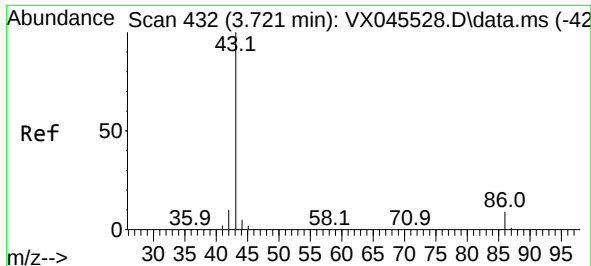
Tgt Ion: 43 Resp: 669
Ion Ratio Lower Upper
43 100
74 6.9 17.5 26.3#



#22
Diisopropyl ether
Concen: 0.396 ug/l
RT: 3.849 min Scan# 453
Delta R.T. 0.086 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 45 Resp: 1284
Ion Ratio Lower Upper
45 100
43 201.3 59.3 88.9#
87 0.0 20.4 30.6#
59 555.4 9.0 13.6#

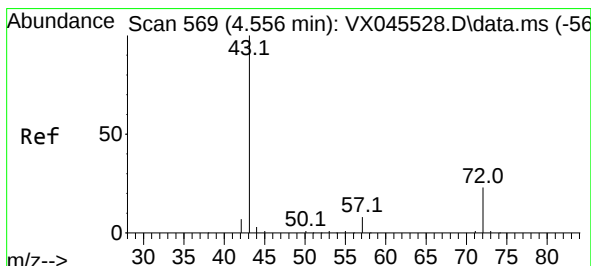
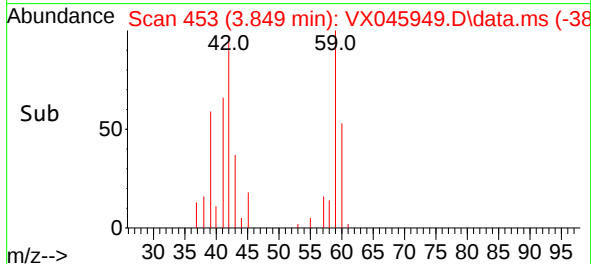
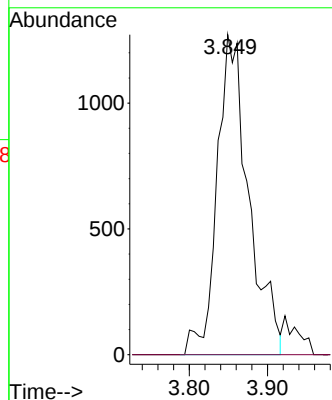
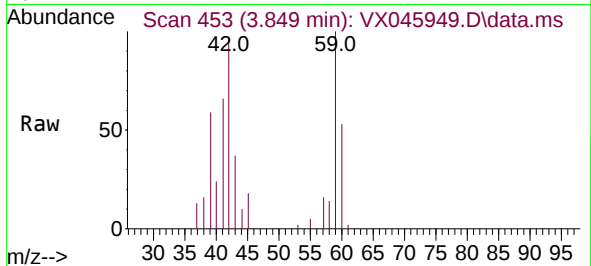




#23
 Vinyl Acetate
 Concen: 1.273 ug/l
 RT: 3.849 min Scan# 41
 Delta R.T. 0.128 min
 Lab File: VX045949.D
 Acq: 28 Apr 2025 12:21

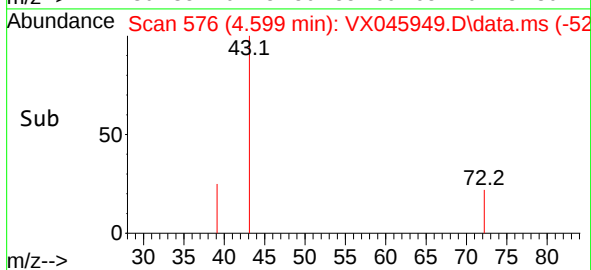
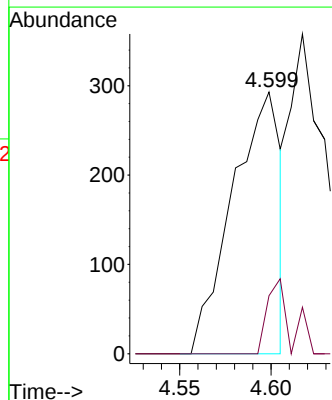
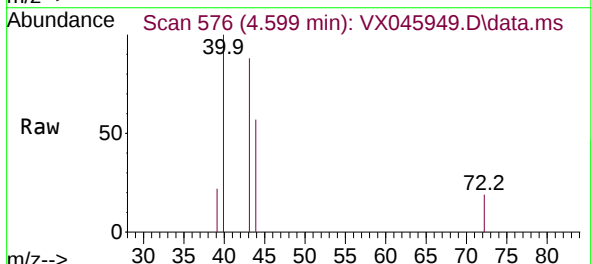
Instrument :
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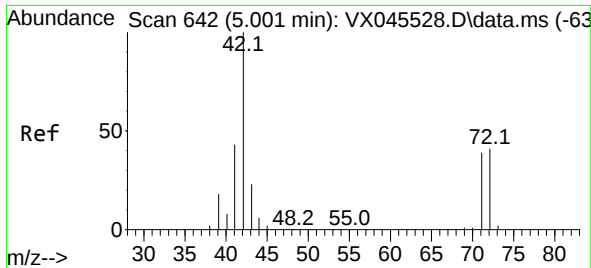
Tgt Ion: 43 Resp: 3568
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.5 11.3#



#25
 2-Butanone
 Concen: 0.676 ug/l
 RT: 4.599 min Scan# 576
 Delta R.T. 0.043 min
 Lab File: VX045949.D
 Acq: 28 Apr 2025 12:21

Tgt Ion: 43 Resp: 537
 Ion Ratio Lower Upper
 43 100
 72 22.2 18.6 28.0

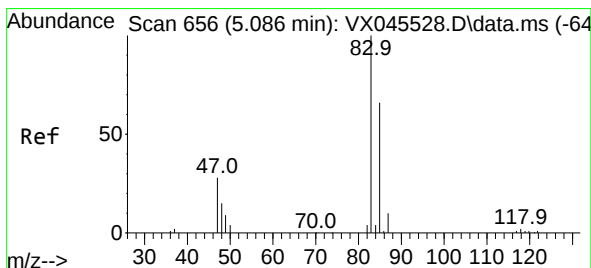
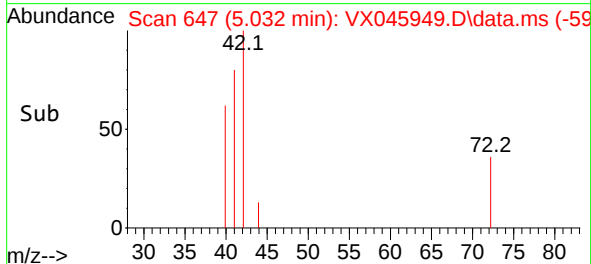
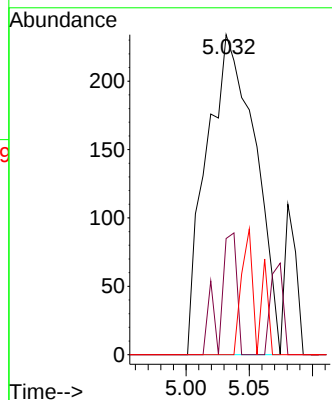
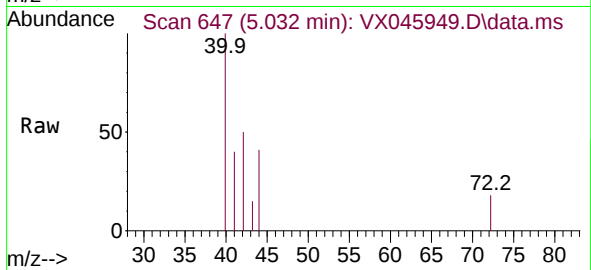




#29
Tetrahydrofuran
Concen: 1.217 ug/l
RT: 5.032 min Scan# 642
Delta R.T. 0.031 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

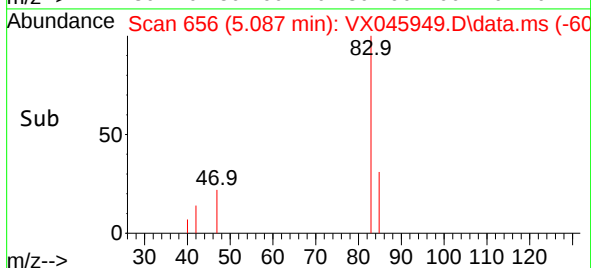
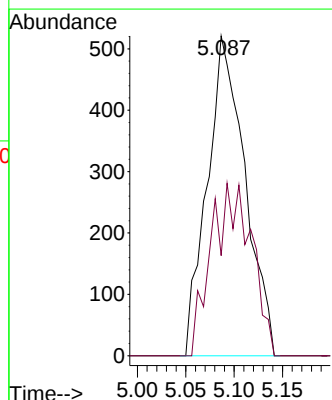
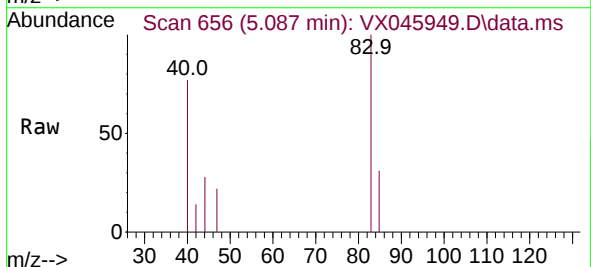
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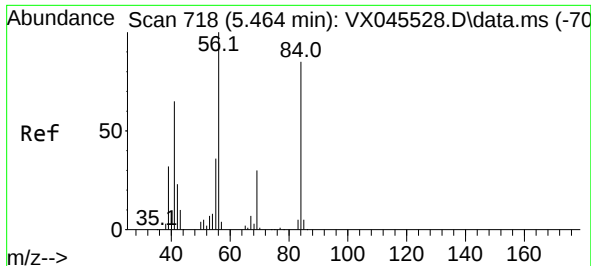
Tgt Ion: 42 Resp: 627
Ion Ratio Lower Upper
42 100
72 13.2 33.4 50.0#
71 12.9 31.4 47.0#



#30
Chloroform
Concen: 0.750 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

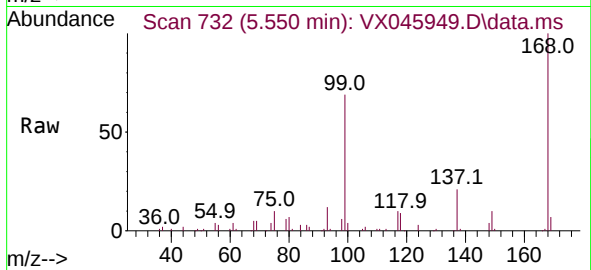
Tgt Ion: 83 Resp: 1415
Ion Ratio Lower Upper
83 100
85 31.3 52.8 79.2#



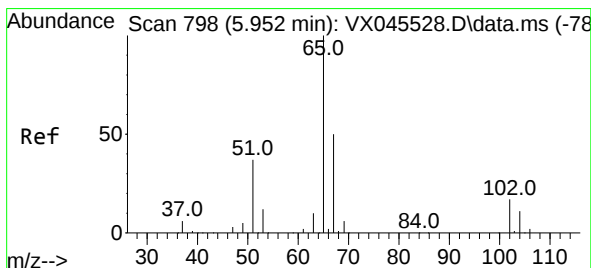
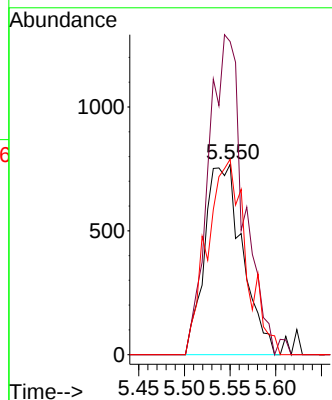
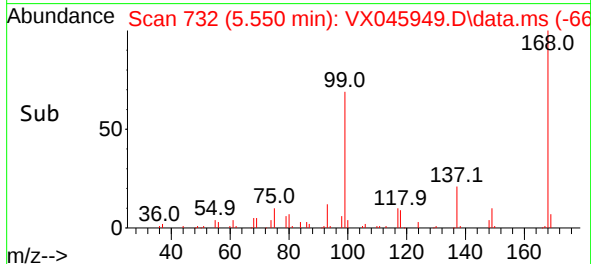


#31
Cyclohexane
Concen: 1.358 ug/l
RT: 5.550 min Scan# 718
Delta R.T. 0.085 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

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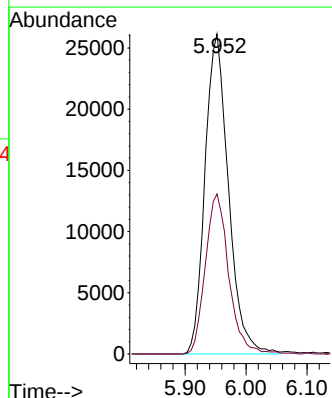
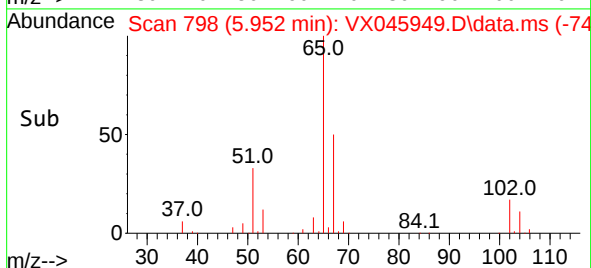
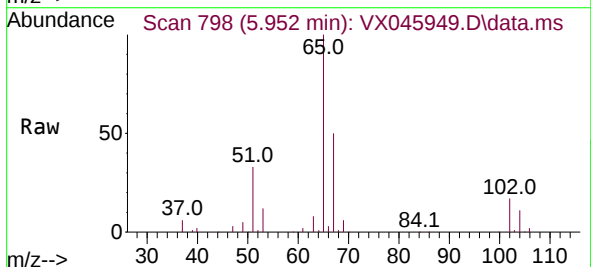


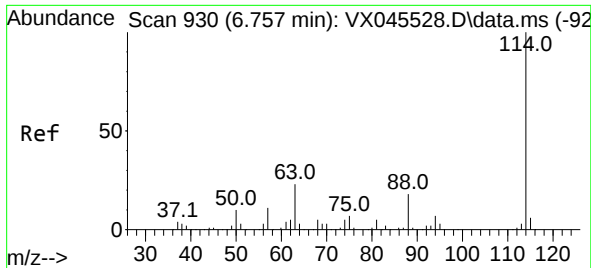
Tgt Ion: 56 Resp: 2202
Ion Ratio Lower Upper
56 100
69 164.6 23.6 35.4#
84 102.7 67.7 101.5#



#33
1,2-Dichloroethane-d4
Concen: 52.892 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 65 Resp: 69917
Ion Ratio Lower Upper
65 100
67 50.0 0.0 99.0

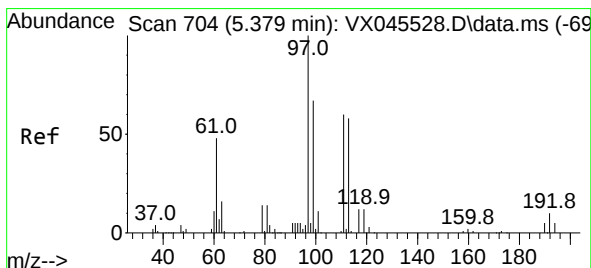
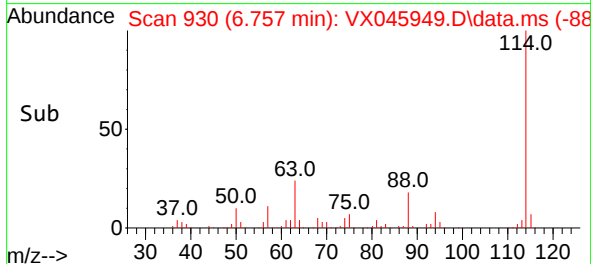
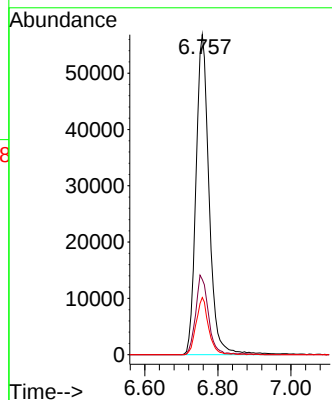
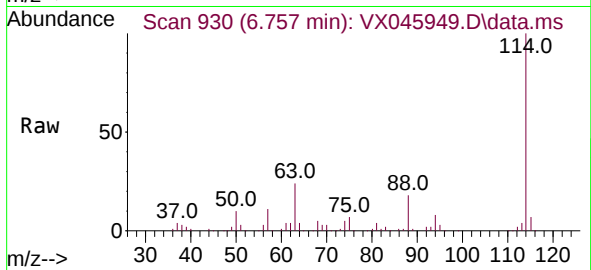




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

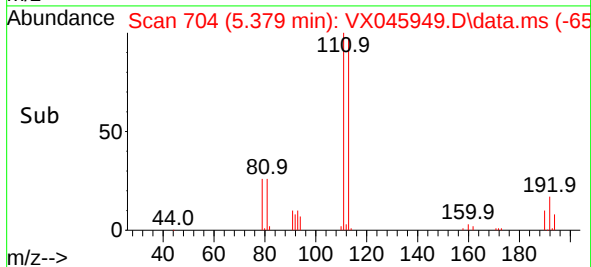
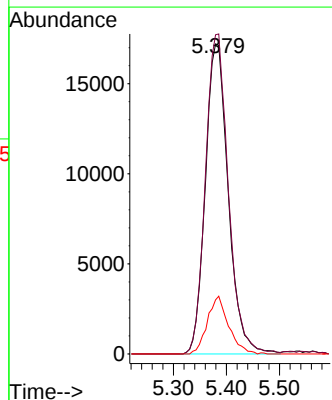
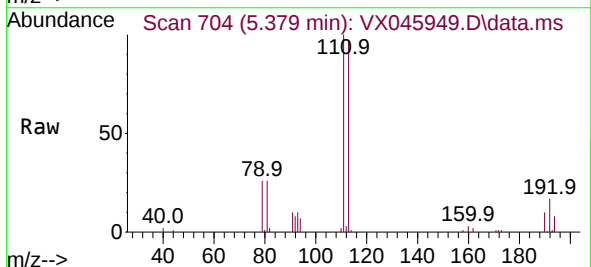
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-07

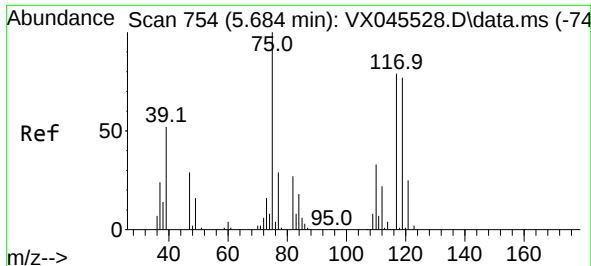
Tgt Ion:114 Resp: 142090
Ion Ratio Lower Upper
114 100
63 23.5 0.0 46.8
88 17.8 0.0 35.4



#35
Dibromofluoromethane
Concen: 51.379 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion:113 Resp: 51797
Ion Ratio Lower Upper
113 100
111 103.0 81.8 122.6
192 17.2 13.8 20.6

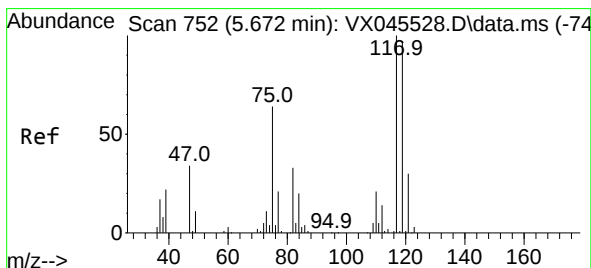
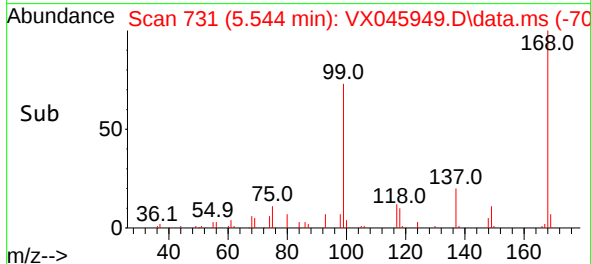
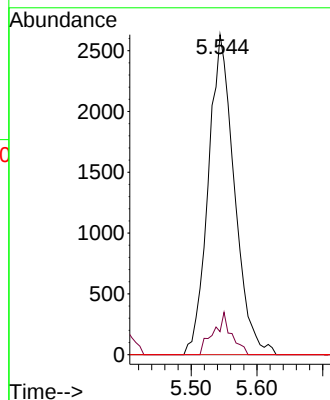
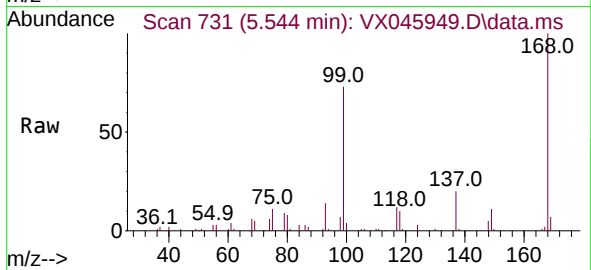




#36
 1,1-Dichloropropene
 Concen: 5.348 ug/l
 RT: 5.544 min Scan# 71
 Delta R.T. -0.140 min
 Lab File: VX045949.D
 Acq: 28 Apr 2025 12:21

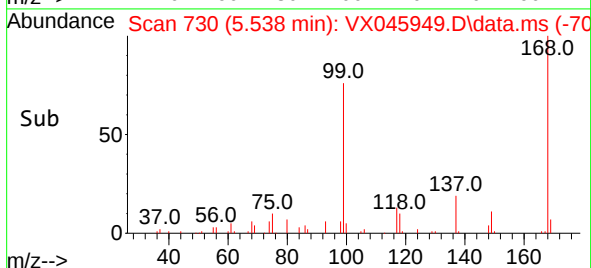
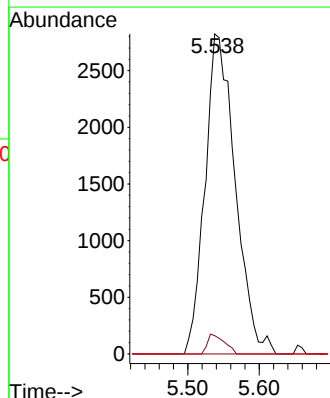
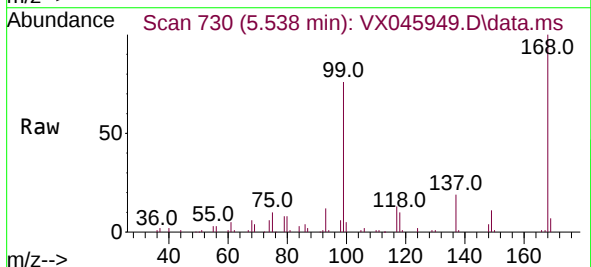
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-07

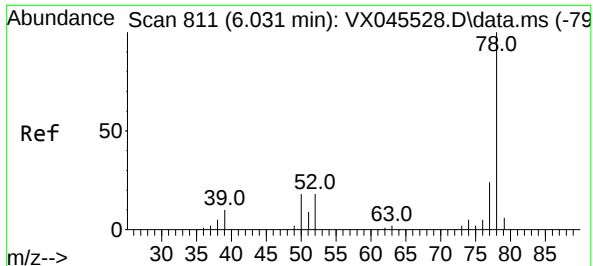
Tgt Ion: 75 Resp: 7280
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.9 50.6#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.638 ug/l
 RT: 5.538 min Scan# 730
 Delta R.T. -0.134 min
 Lab File: VX045949.D
 Acq: 28 Apr 2025 12:21

Tgt Ion: 117 Resp: 8294
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.9 115.3#
 121 0.0 24.2 36.2#

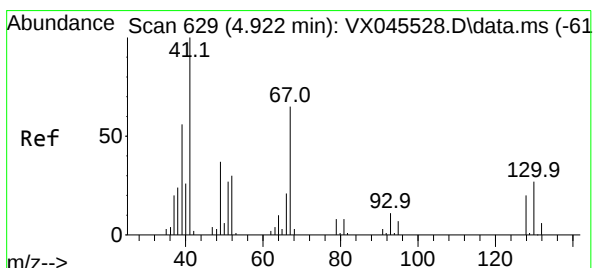
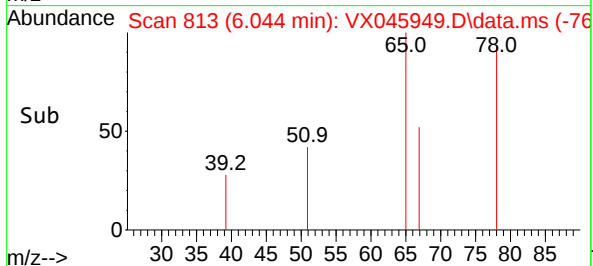
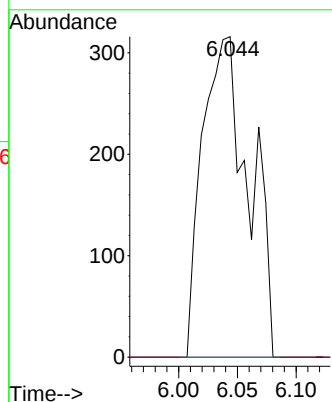
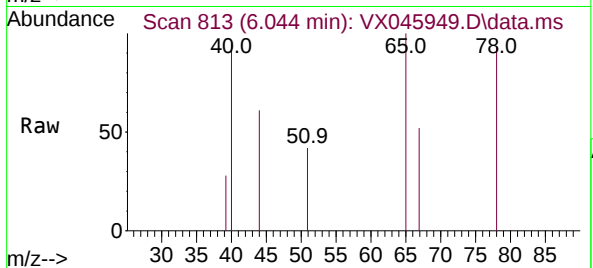




#40
Benzene
Concen: 0.210 ug/l
RT: 6.044 min Scan# 811
Delta R.T. 0.012 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

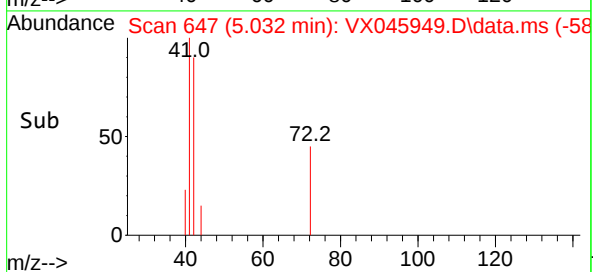
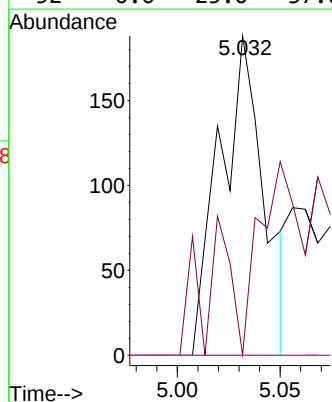
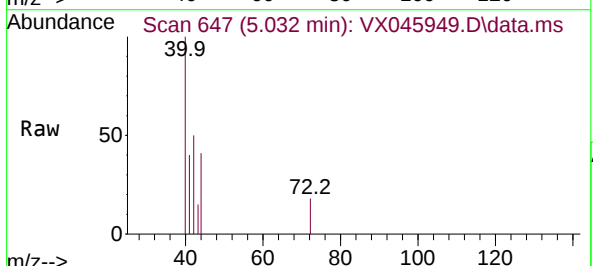
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-07

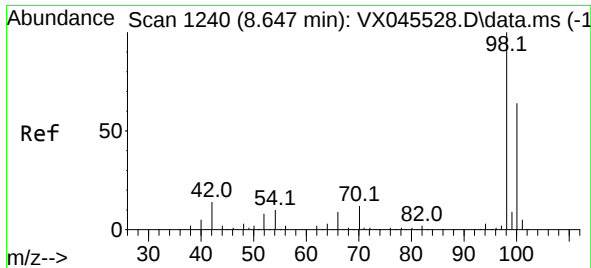
Tgt Ion: 78 Resp: 871
Ion Ratio Lower Upper
78 100
77 0.0 19.0 28.6#



#41
Methacrylonitrile
Concen: 0.309 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.110 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 41 Resp: 280
Ion Ratio Lower Upper
41 100
39 26.8 47.0 70.6#
67 0.0 53.2 79.8#
52 0.0 25.0 37.6#

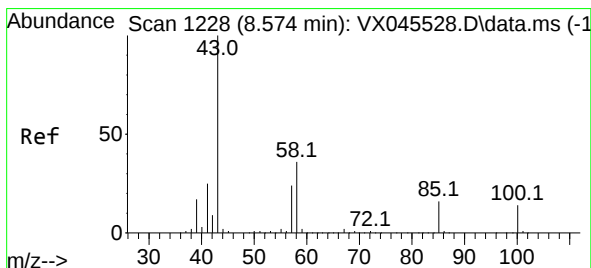
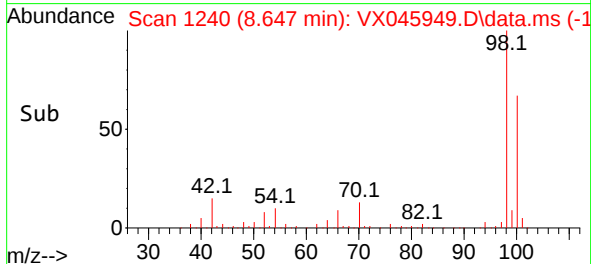
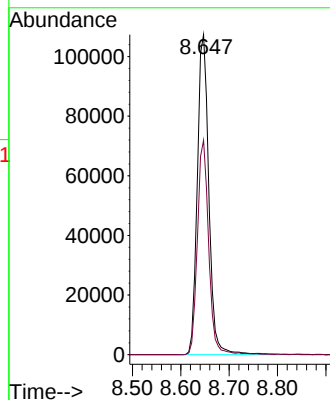
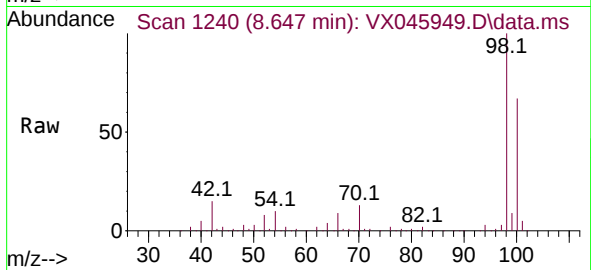




#50
Toluene-d8
Concen: 50.414 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

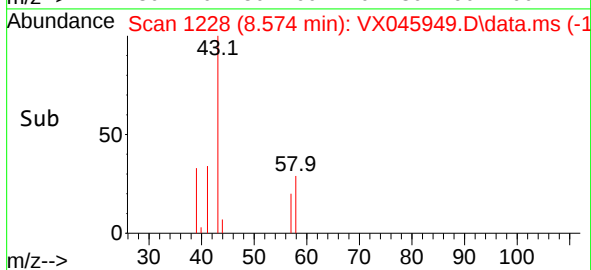
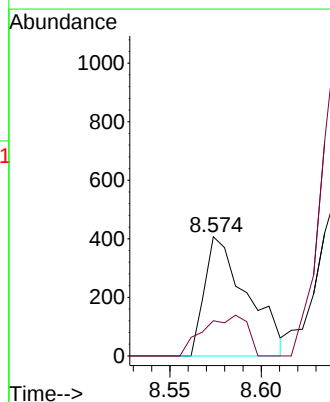
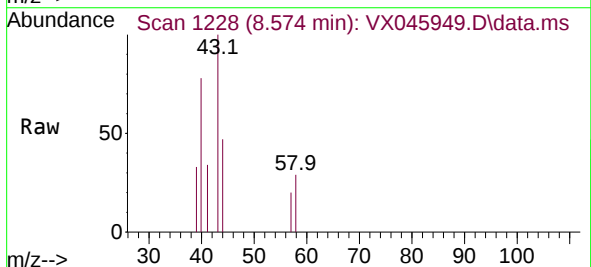
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-07

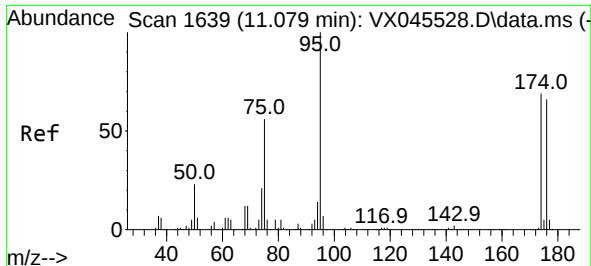
Tgt Ion: 98 Resp: 177396
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 0.384 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 43 Resp: 661
Ion Ratio Lower Upper
43 100
58 35.1 28.5 42.7

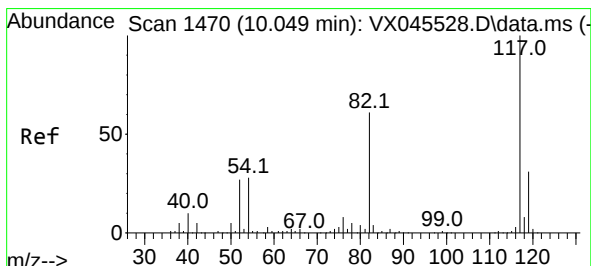
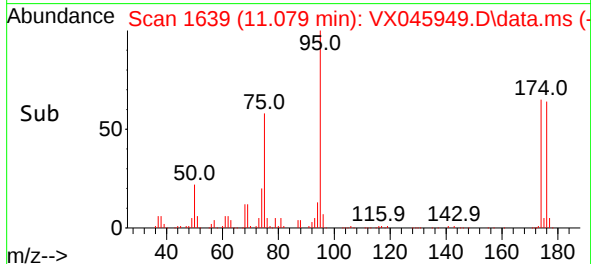
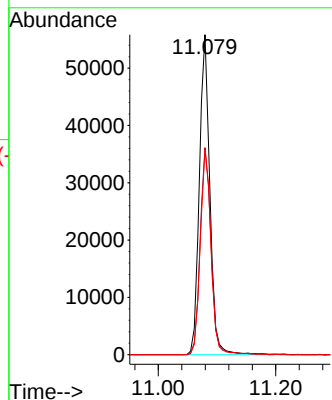
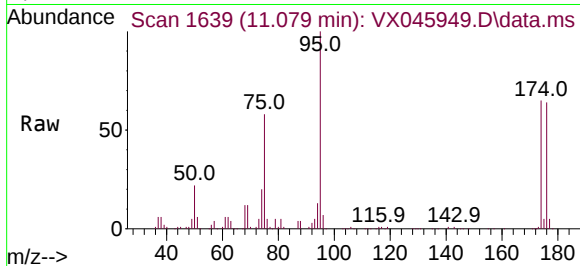




#62
4-Bromofluorobenzene
Concen: 54.142 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

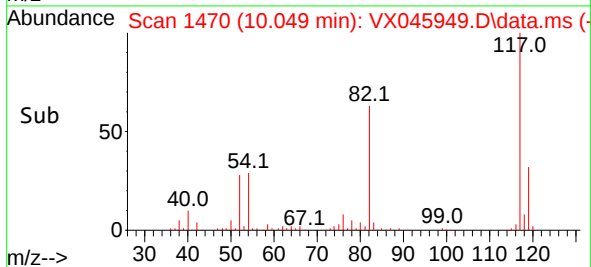
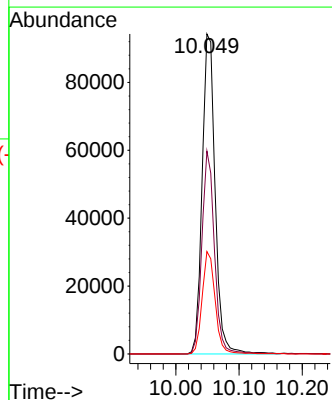
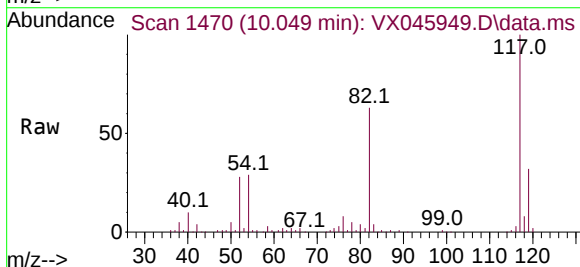
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-07

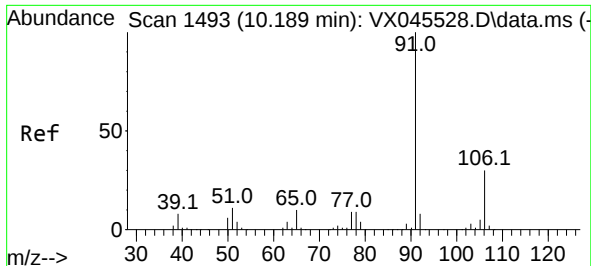
Tgt Ion: 95 Resp: 69394
Ion Ratio Lower Upper
95 100
174 67.1 0.0 135.8
176 65.7 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion: 117 Resp: 135017
Ion Ratio Lower Upper
117 100
82 63.4 49.2 73.8
119 32.0 25.1 37.7





#67

Ethyl Benzene

Concen: 0.265 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX045949.D

Acq: 28 Apr 2025 12:21

Instrument :

MSVOA_X

ClientSampleId :

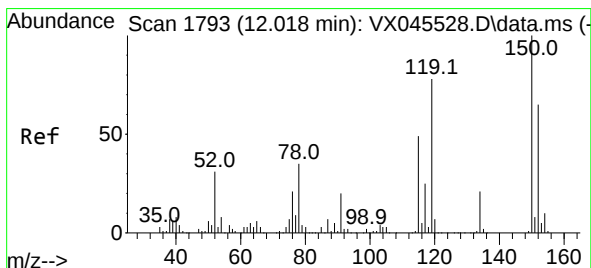
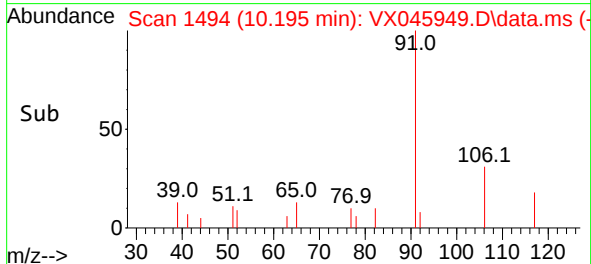
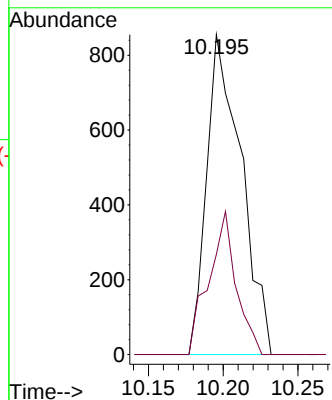
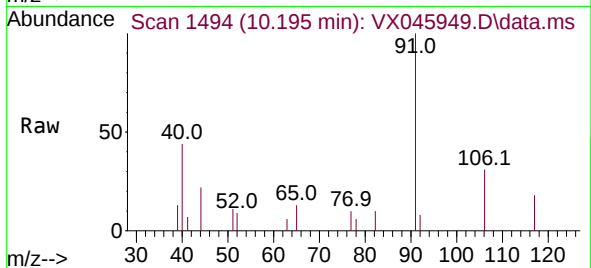
TW-WTS-07

Tgt Ion: 91 Resp: 1368

Ion Ratio Lower Upper

91 100

106 31.3 23.7 35.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045949.D

Acq: 28 Apr 2025 12:21

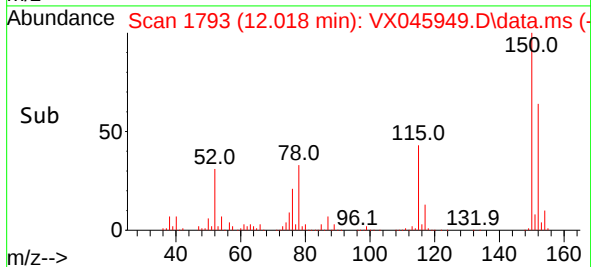
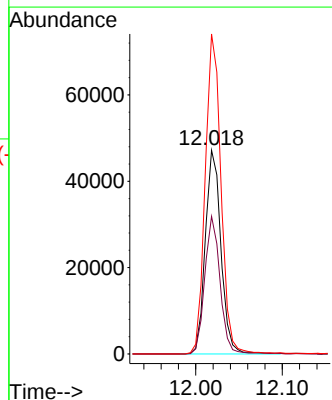
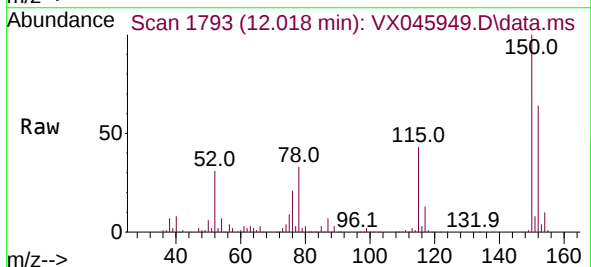
Tgt Ion: 152 Resp: 59248

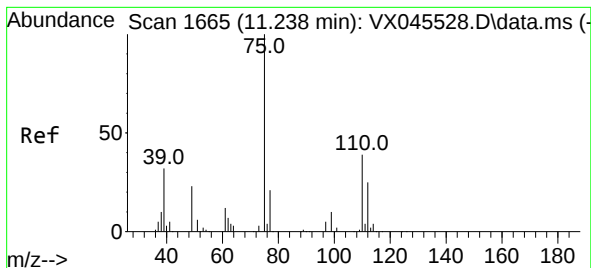
Ion Ratio Lower Upper

152 100

115 66.1 46.9 140.7

150 158.8 0.0 349.4





#76

1,2,3-Trichloropropane

Concen: 27.978 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX045949.D

Acq: 28 Apr 2025 12:21

Instrument :

MSVOA_X

ClientSampleId :

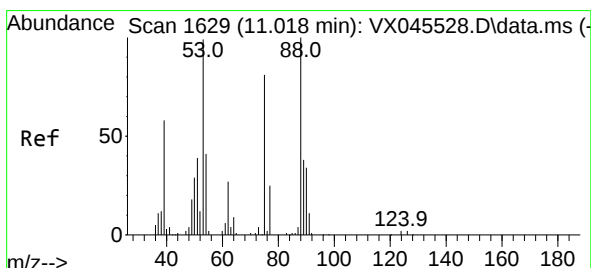
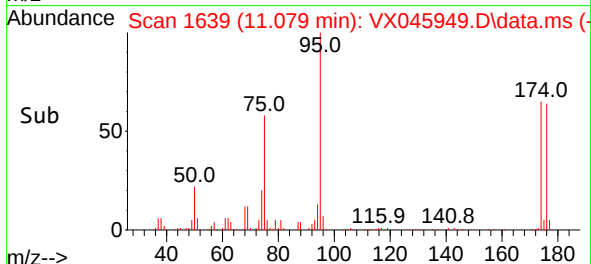
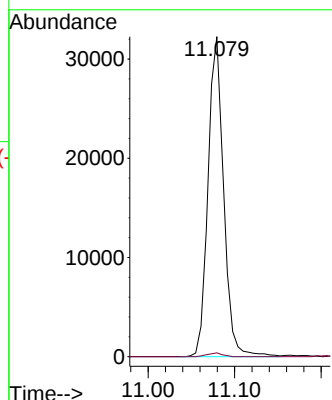
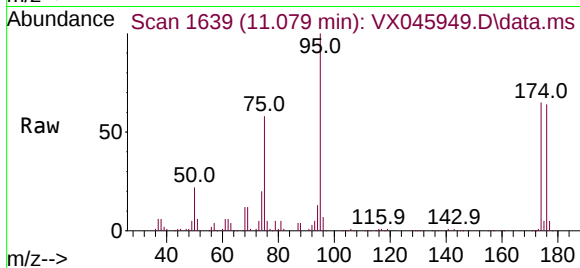
TW-WTS-07

Tgt Ion: 75 Resp: 40434

Ion Ratio Lower Upper

75 100

77 1.1 20.0 59.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 94.954 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX045949.D

Acq: 28 Apr 2025 12:21

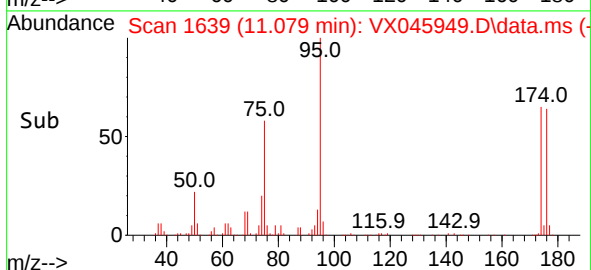
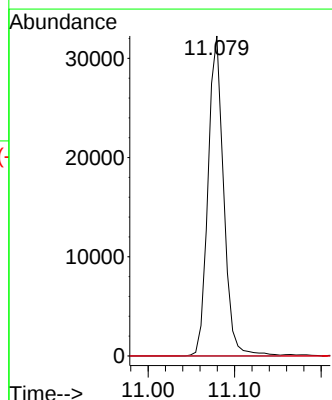
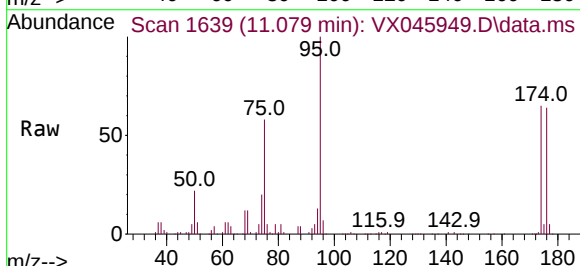
Tgt Ion: 75 Resp: 40434

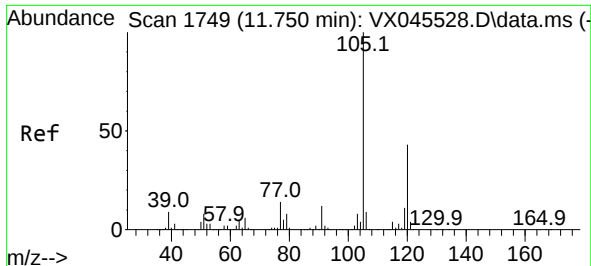
Ion Ratio Lower Upper

75 100

53 0.0 101.8 152.6#

89 0.0 37.2 55.8#

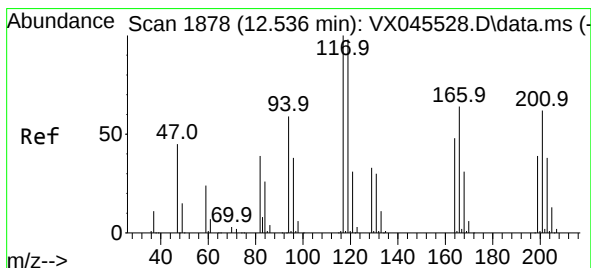
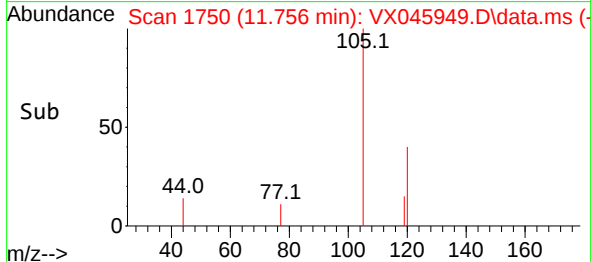
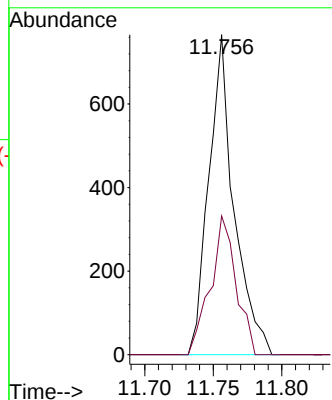
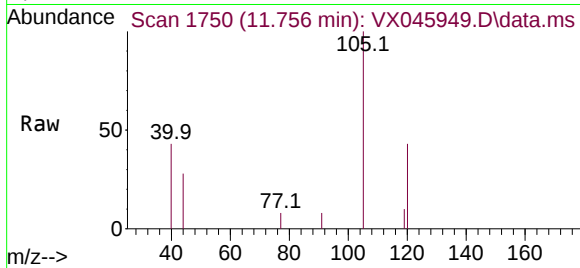




#84
1,2,4-Trimethylbenzene
Concen: 0.248 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

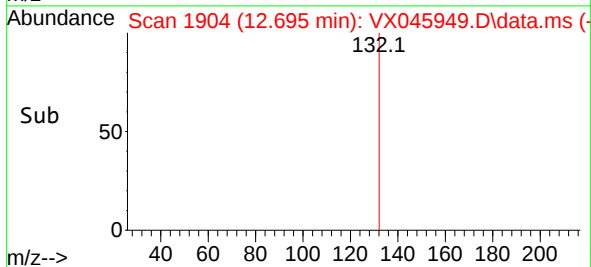
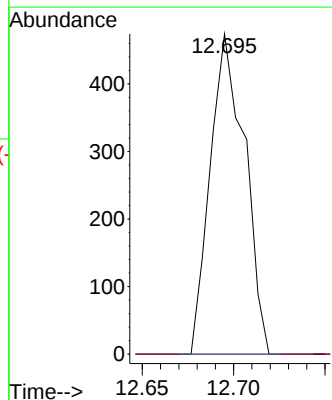
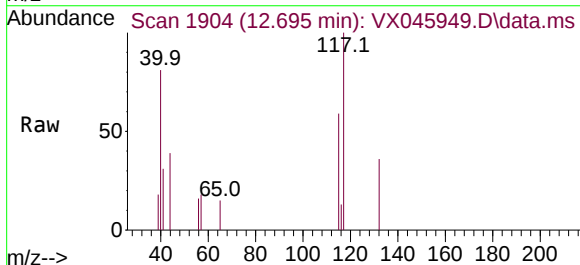
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-07

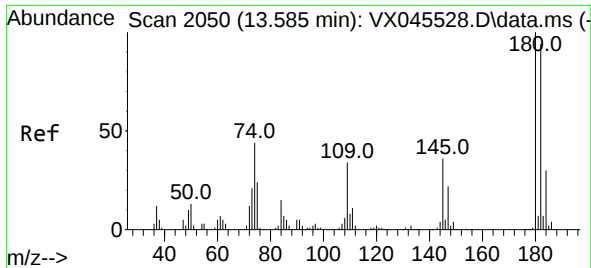
Tgt Ion:105 Resp: 978
Ion Ratio Lower Upper
105 100
120 44.1 21.4 64.3



#90
Hexachloroethane
Concen: 0.923 ug/l
RT: 12.695 min Scan# 1904
Delta R.T. 0.159 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

Tgt Ion:117 Resp: 624
Ion Ratio Lower Upper
117 100
201 0.0 31.2 93.6#

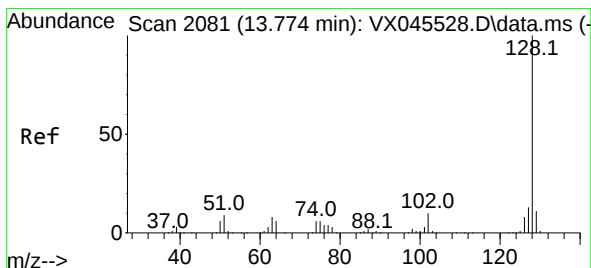
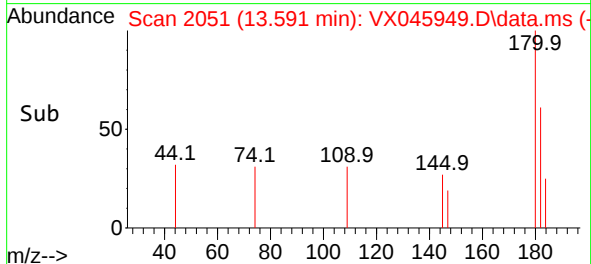
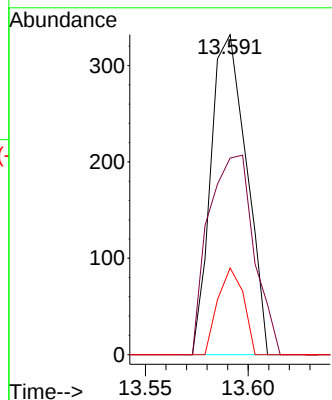
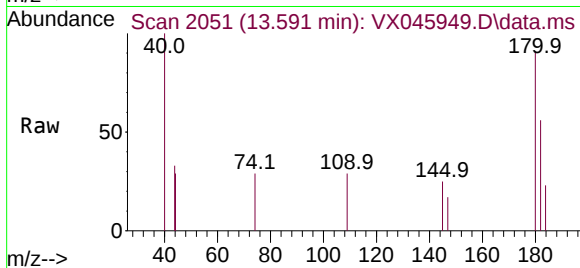




#93
1,2,4-Trichlorobenzene
Concen: 0.362 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

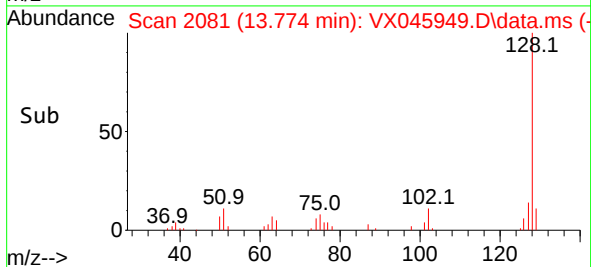
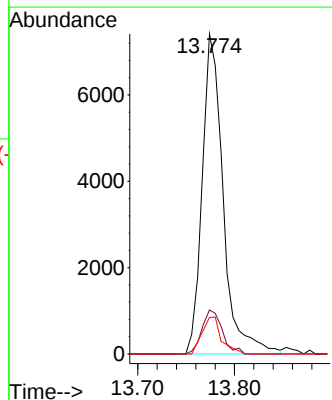
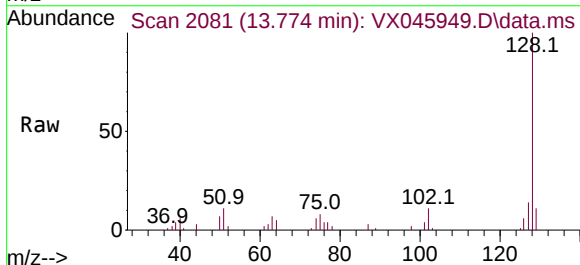
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-07

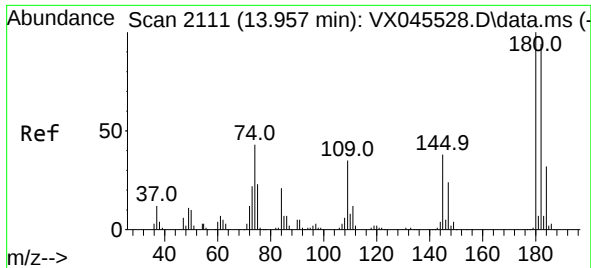
Tgt Ion:180 Resp: 400
Ion Ratio Lower Upper
180 100
182 79.3 47.9 143.6
145 19.5 17.9 53.8



#95
Naphthalene
Concen: 2.724 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045949.D
Acq: 28 Apr 2025 12:21

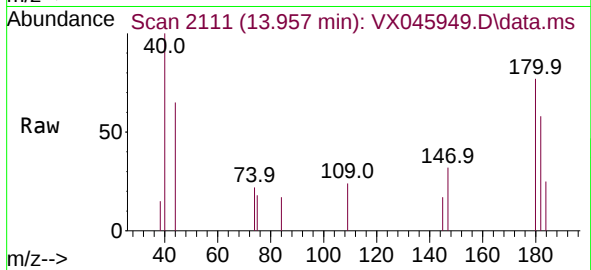
Tgt Ion:128 Resp: 11196
Ion Ratio Lower Upper
128 100
127 13.3 10.3 15.5
129 10.6 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.356 ug/l
 RT: 13.957 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VX045949.D
 Acq: 28 Apr 2025 12:21

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-07



Tgt Ion:180 Resp: 412
 Ion Ratio Lower Upper
 180 100
 182 85.0 47.3 141.8
 145 40.0 18.2 54.6

