

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051425\
 Data File : VX046195.D
 Acq On : 14 May 2025 15:32
 Operator : JC/MD
 Sample : Q2033-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-08

Quant Time: May 15 01:24:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

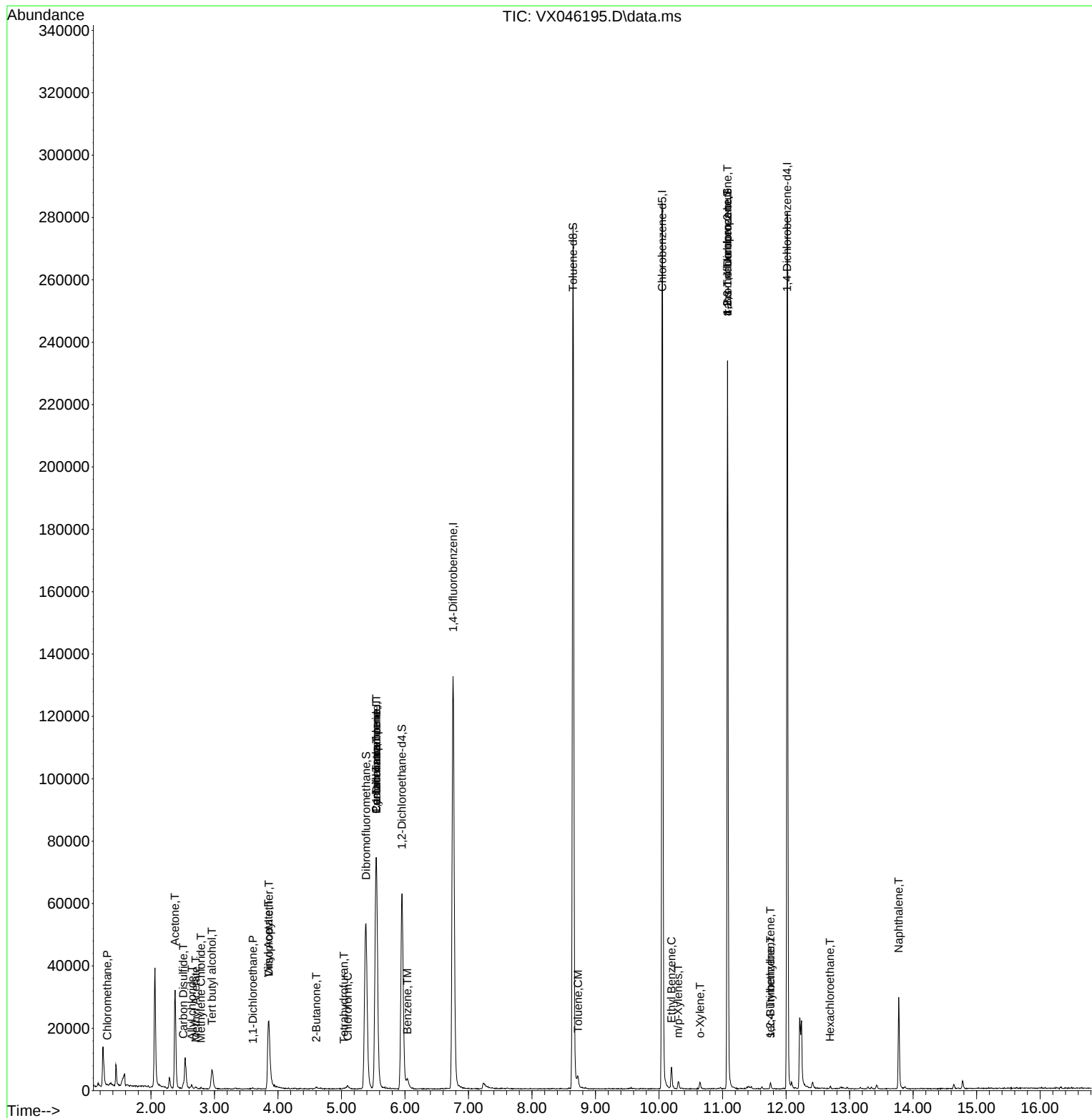
Internal Standards						
1) Pentafluorobenzene	5.550	168	64370	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127208	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	118657	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50566	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63366	52.802	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.600%			
35) Dibromofluoromethane	5.385	113	47460	51.810	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.620%			
50) Toluene-d8	8.647	98	159540	50.320	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.640%			
62) 4-Bromofluorobenzene	11.079	95	60625	49.849	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.700%			
Target Compounds					Qvalue	
3) Chloromethane	1.313	50	258	0.270	ug/l #	88
11) Tert butyl alcohol	2.959	59	6627	39.340	ug/l	97
14) Allyl chloride	2.642	41	1066	0.731	ug/l #	46
16) Acetone	2.380	43	34701	72.118	ug/l	99
17) Carbon Disulfide	2.508	76	1628	0.900	ug/l	97
18) Methyl Acetate	2.703	43	819	0.734	ug/l #	62
20) Methylene Chloride	2.788	84	218	0.236	ug/l #	71
22) Diisopropyl ether	3.855	45	1606	0.570	ug/l #	1
23) Vinyl Acetate	3.849	43	3945	1.592	ug/l #	74
24) 1,1-Dichloroethane	3.605	63	402	0.256	ug/l #	82
25) 2-Butanone	4.605	43	1259	1.802	ug/l	94
29) Tetrahydrofuran	5.038	42	192	0.439	ug/l #	35
30) Chloroform	5.099	83	1315	0.804	ug/l	99
31) Cyclohexane	5.550	56	1930	1.349	ug/l #	29
36) 1,1-Dichloropropene	5.550	75	6299	5.118	ug/l #	51
38) Carbon Tetrachloride	5.550	117	7457	5.392	ug/l #	16
40) Benzene	6.037	78	3443	0.955	ug/l	94
52) Toluene	8.726	92	1350	0.611	ug/l	98
67) Ethyl Benzene	10.195	91	4372	0.955	ug/l	93
68) m/p-Xylenes	10.299	106	785	0.469	ug/l	93
69) o-Xylene	10.646	106	549	0.336	ug/l	78
76) 1,2,3-Trichloropropane	11.079	75	34781	28.576	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	34781	93.034	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.756	105	1098	0.330	ug/l	95
85) sec-Butylbenzene	11.756	105	1098	0.270	ug/l #	57
90) Hexachloroethane	12.695	117	497	0.840	ug/l #	19
95) Naphthalene	13.774	128	18840	5.343	ug/l	98

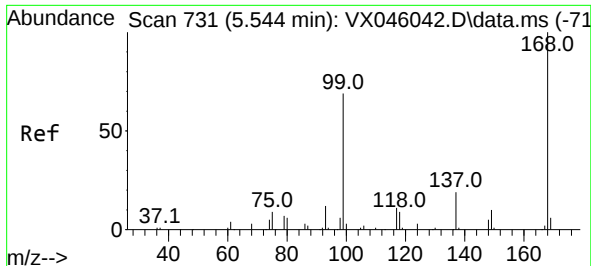
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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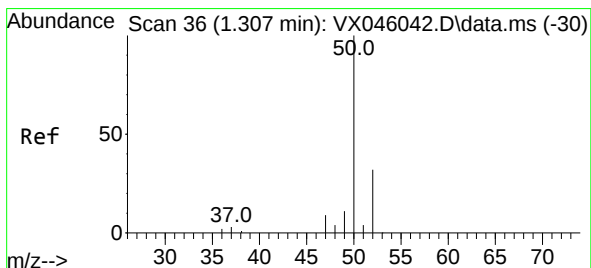
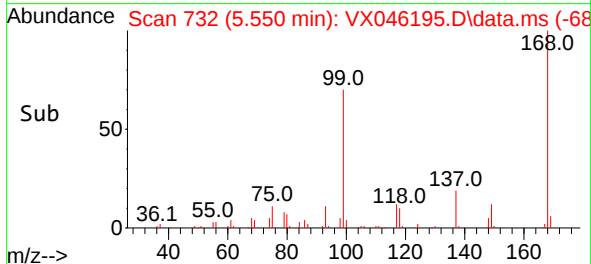
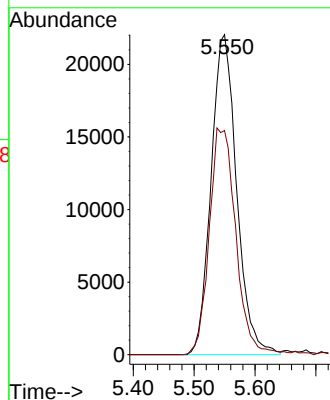
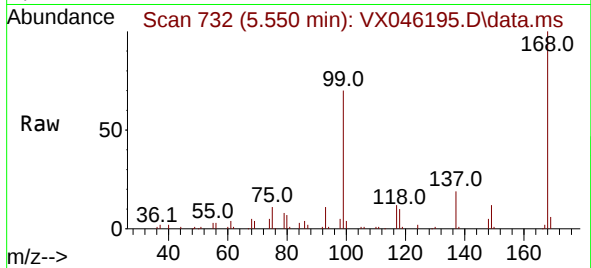




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

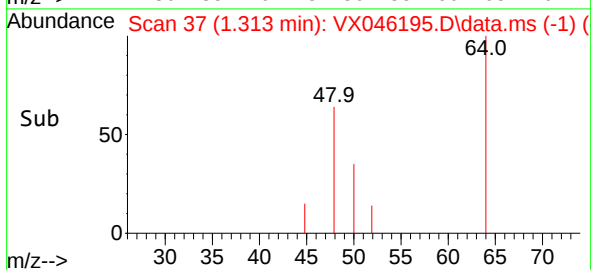
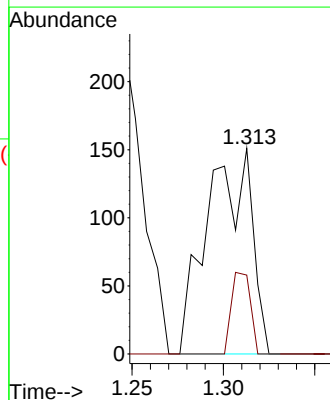
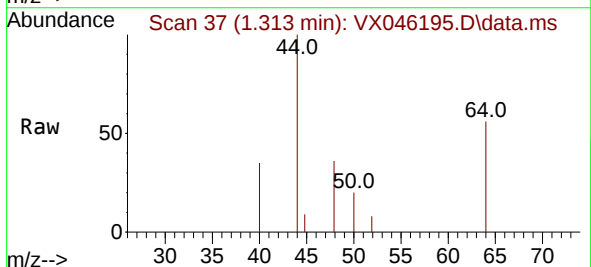
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

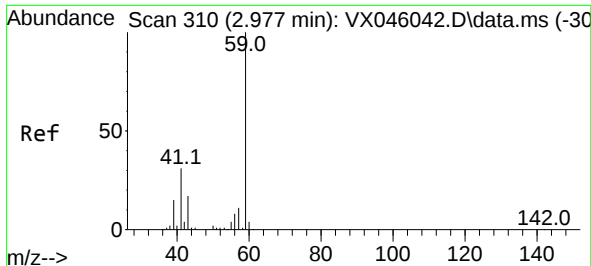
Tgt Ion:168 Resp: 64370
Ion Ratio Lower Upper
168 100
99 70.1 54.9 82.3



#3
Chloromethane
Concen: 0.270 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 50 Resp: 258
Ion Ratio Lower Upper
50 100
52 38.4 25.4 38.2#

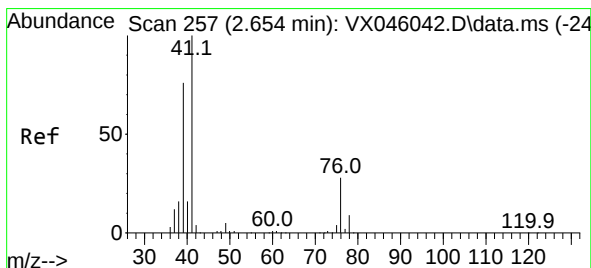
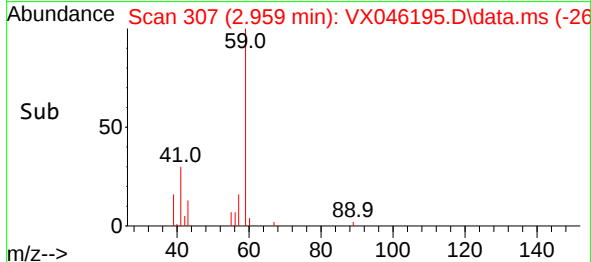
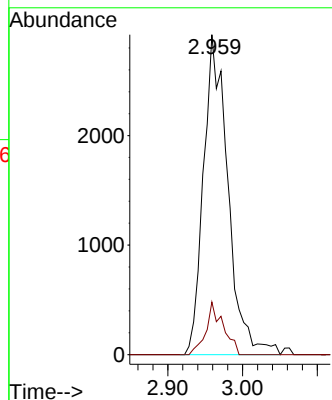
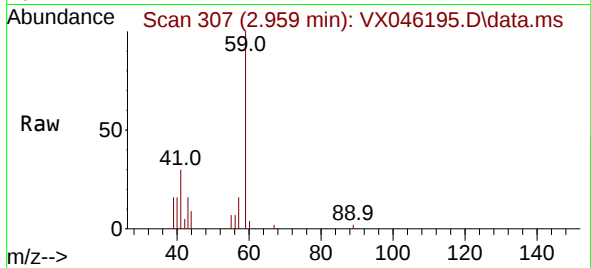




#11
Tert butyl alcohol
Concen: 39.340 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.018 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

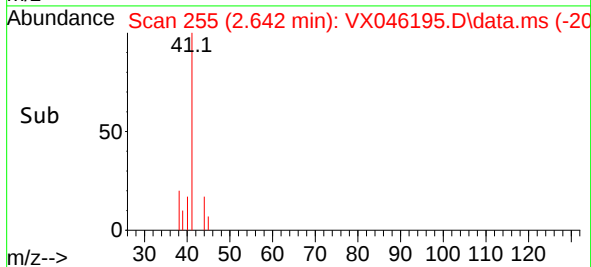
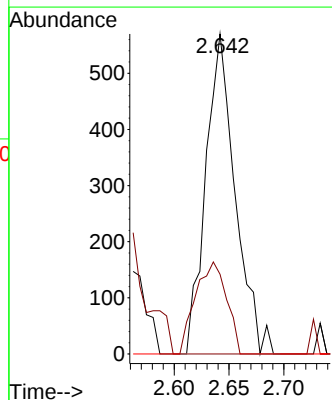
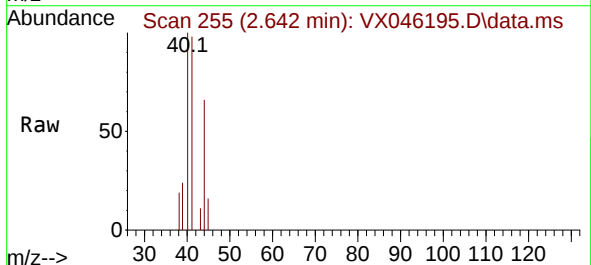
Instrument :
MSVOA_X
ClientSampleId :
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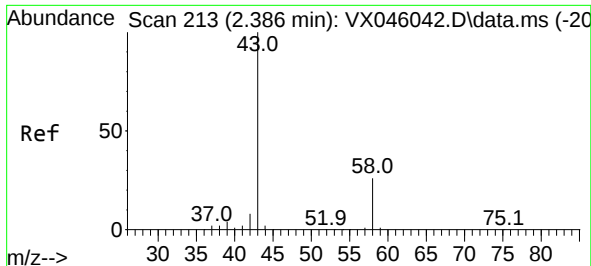
Tgt Ion: 59 Resp: 6627
Ion Ratio Lower Upper
59 100
57 11.6 8.6 12.8



#14
Allyl chloride
Concen: 0.731 ug/l
RT: 2.642 min Scan# 255
Delta R.T. -0.012 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 41 Resp: 1066
Ion Ratio Lower Upper
41 100
39 30.4 60.6 90.8#
76 0.0 24.9 37.3#

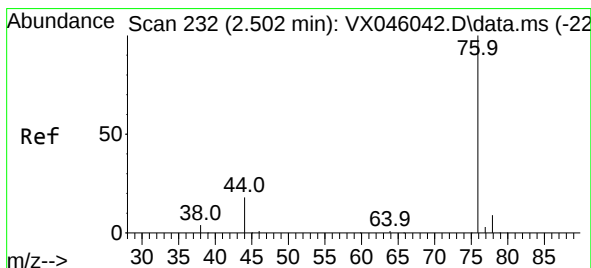
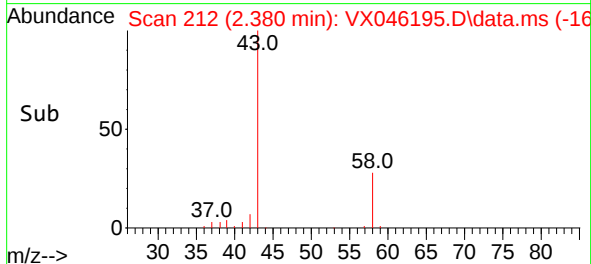
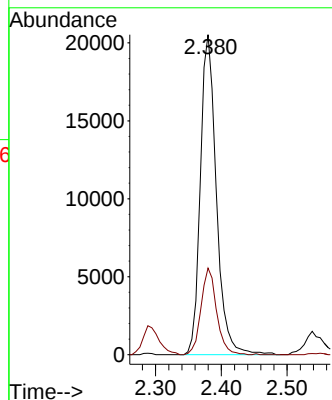
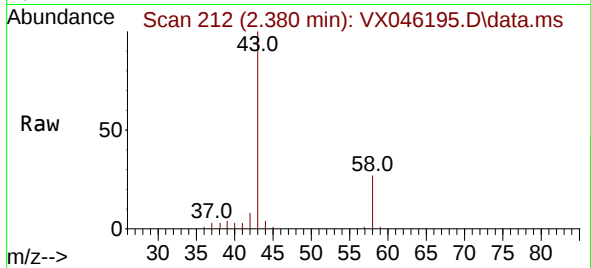




#16
Acetone
Concen: 72.118 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

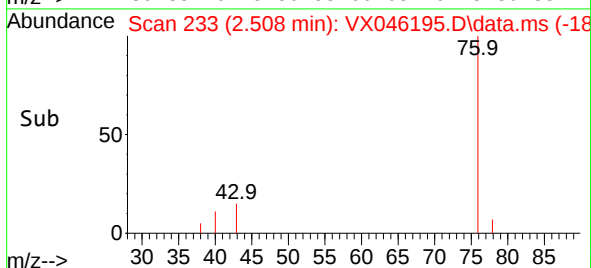
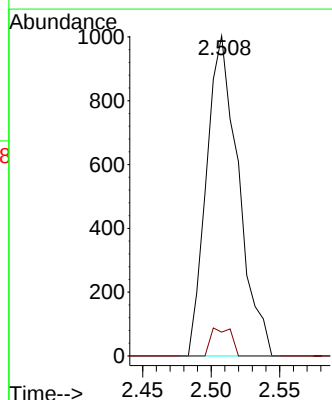
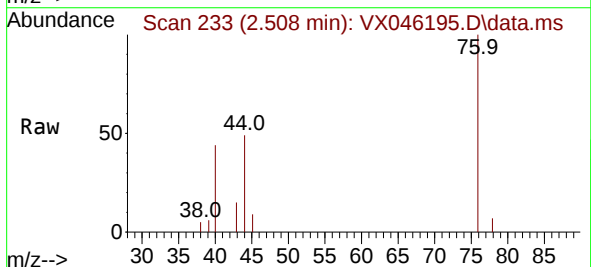
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

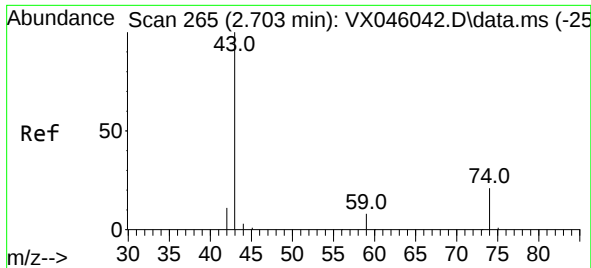
Tgt Ion: 43 Resp: 34701
Ion Ratio Lower Upper
43 100
58 27.0 21.2 31.8



#17
Carbon Disulfide
Concen: 0.900 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 76 Resp: 1628
Ion Ratio Lower Upper
76 100
78 7.5 7.0 10.4

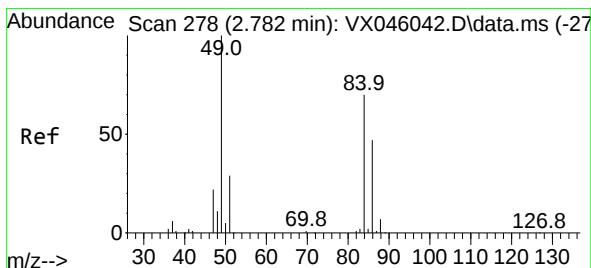
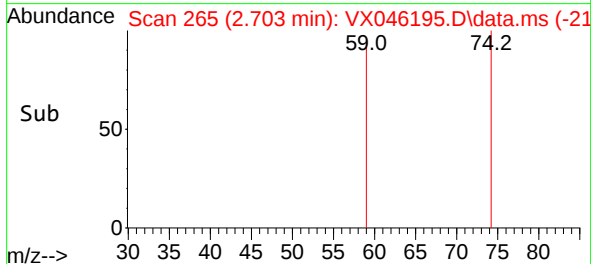
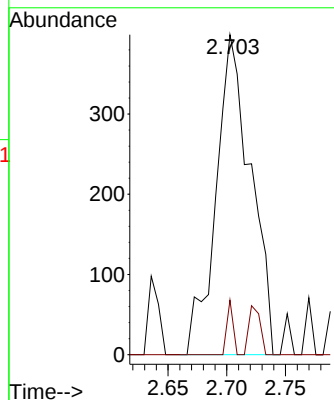
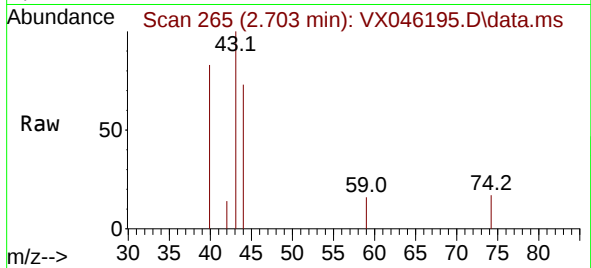




#18
Methyl Acetate
Concen: 0.734 ug/l
RT: 2.703 min Scan# 219
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

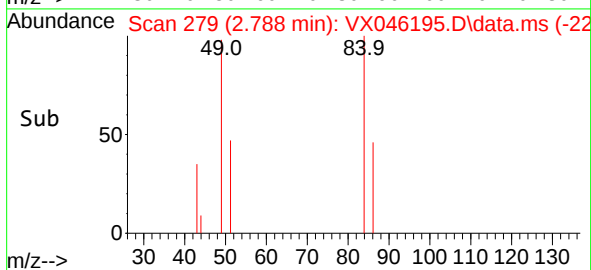
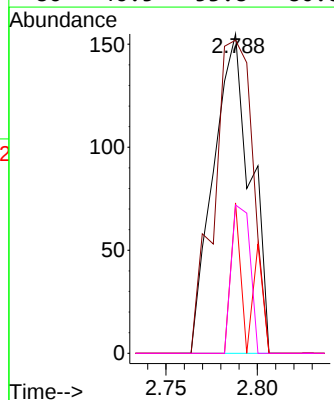
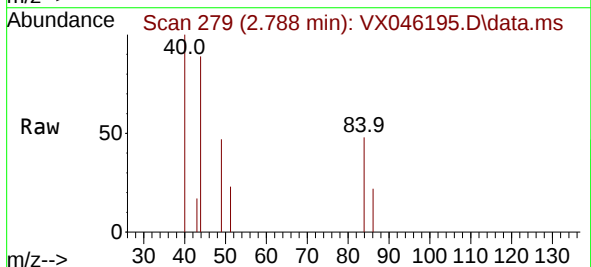
Instrument :
MSVOA_X
ClientSampleId :
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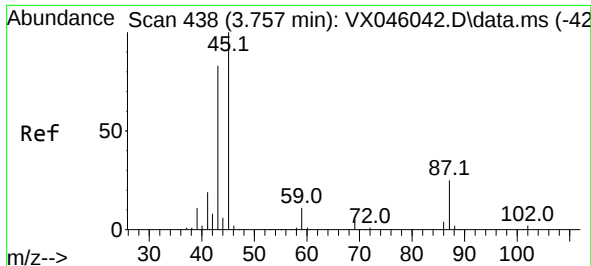
Tgt Ion: 43 Resp: 819
Ion Ratio Lower Upper
43 100
74 3.1 16.7 25.1#



#20
Methylene Chloride
Concen: 0.236 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 84 Resp: 218
Ion Ratio Lower Upper
84 100
49 98.1 113.9 170.9#
51 47.1 33.5 50.3
86 46.5 53.8 80.8#

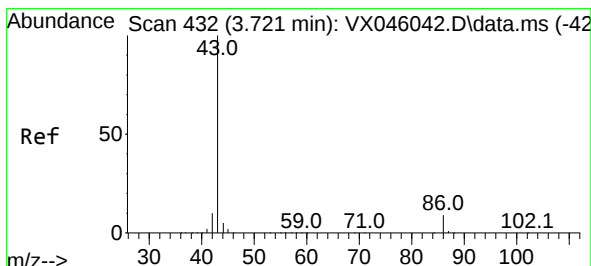
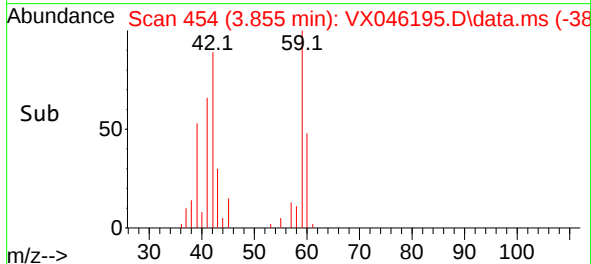
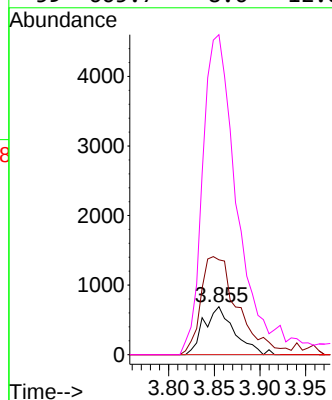
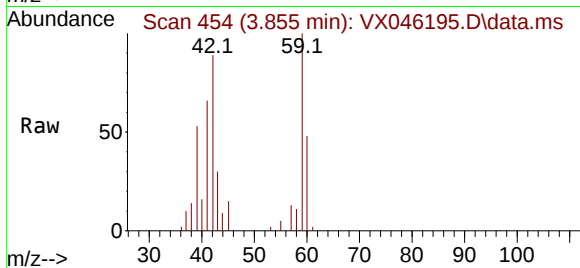




#22
Diisopropyl ether
Concen: 0.570 ug/l
RT: 3.855 min Scan# 41
Delta R.T. 0.098 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

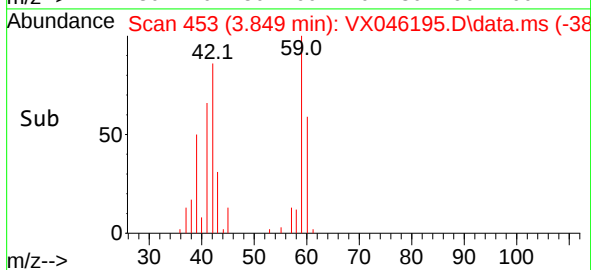
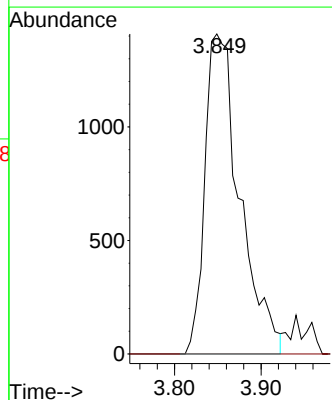
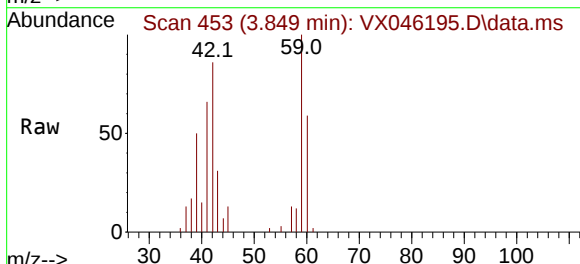
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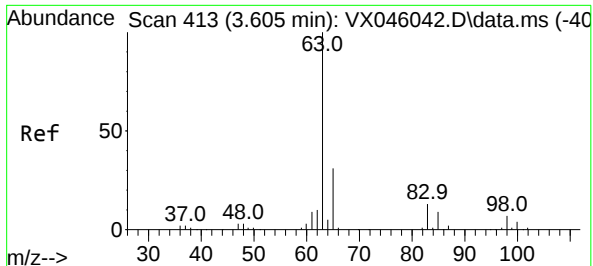
Tgt Ion:	45	Resp:	1606
Ion	Ratio	Lower	Upper
45	100		
43	197.4	66.6	100.0#
87	0.0	19.8	29.6#
59	665.7	8.6	12.8#



#23
Vinyl Acetate
Concen: 1.592 ug/l
RT: 3.849 min Scan# 453
Delta R.T. 0.128 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion:	43	Resp:	3945
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#

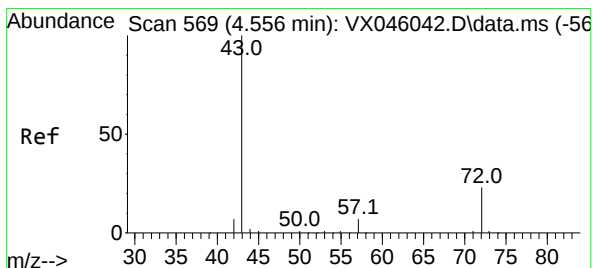
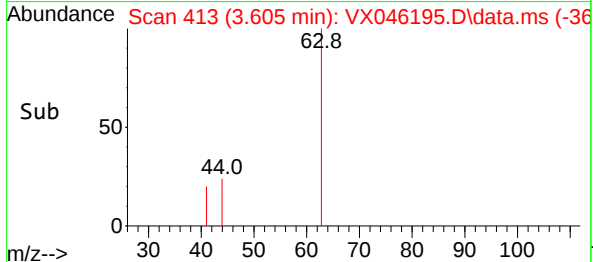
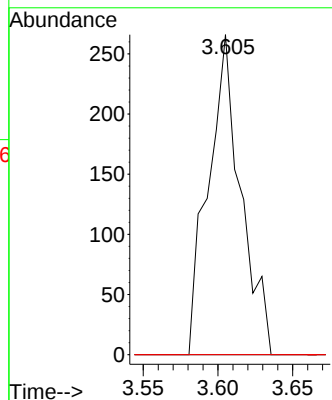
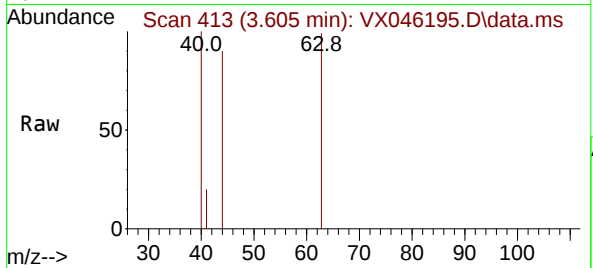




#24
1,1-Dichloroethane
Concen: 0.256 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

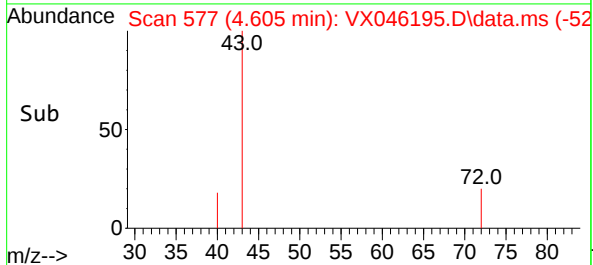
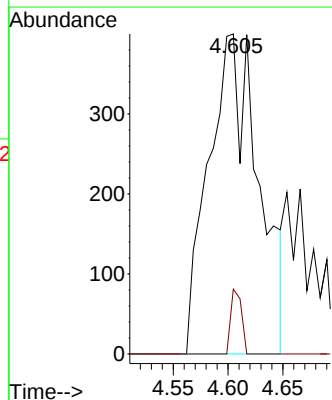
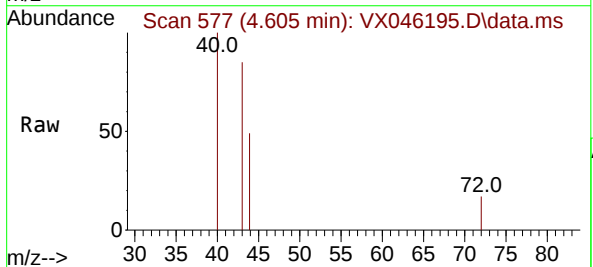
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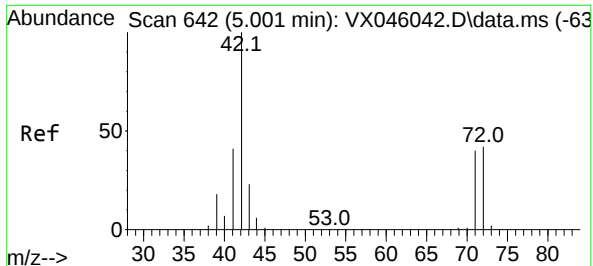
Tgt Ion: 63 Resp: 402
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.8#
100 0.0 2.1 6.3#



#25
2-Butanone
Concen: 1.802 ug/l
RT: 4.605 min Scan# 577
Delta R.T. 0.049 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 43 Resp: 1259
Ion Ratio Lower Upper
43 100
72 20.3 18.4 27.6





#29

Tetrahydrofuran

Concen: 0.439 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.037 min

Lab File: VX046195.D

Acq: 14 May 2025 15:32

Instrument :

MSVOA_X

ClientSampleId :

TW-WTS-08

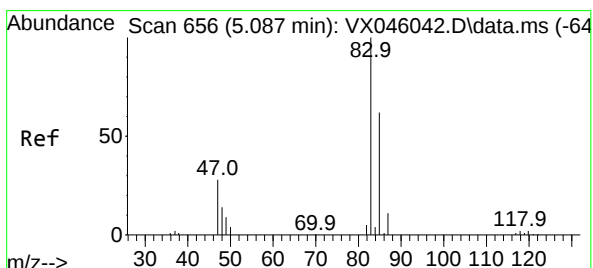
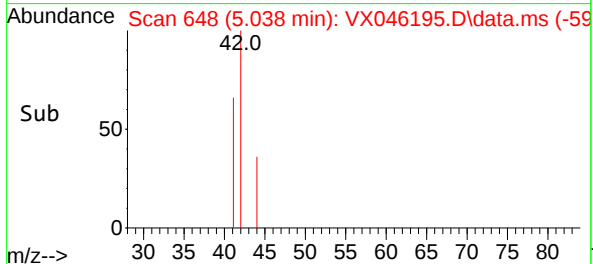
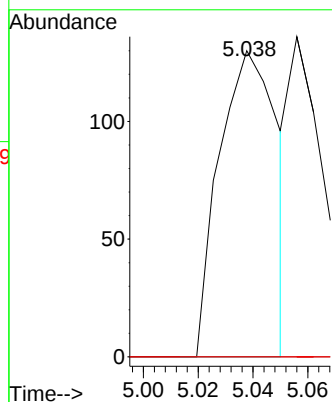
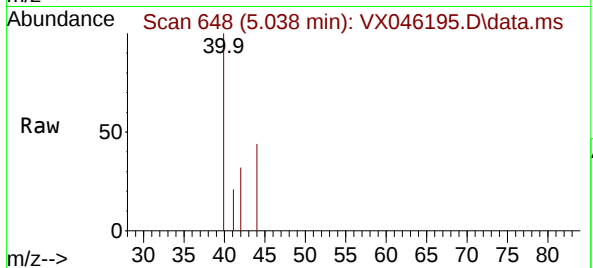
Tgt Ion: 42 Resp: 192

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.4 47.2#



#30

Chloroform

Concen: 0.804 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.012 min

Lab File: VX046195.D

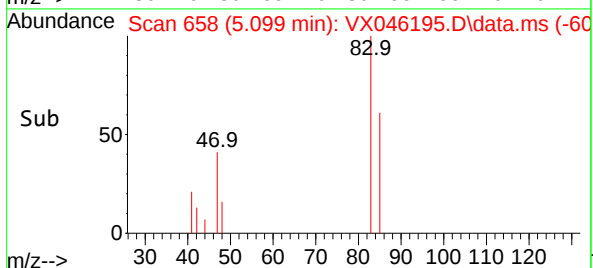
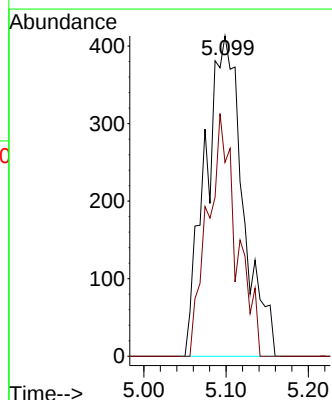
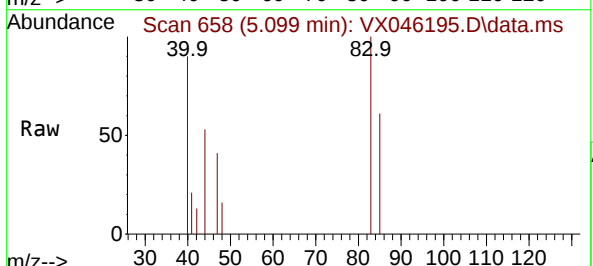
Acq: 14 May 2025 15:32

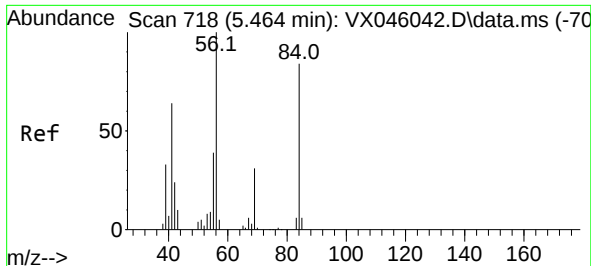
Tgt Ion: 83 Resp: 1315

Ion Ratio Lower Upper

83 100

85 60.5 49.3 73.9

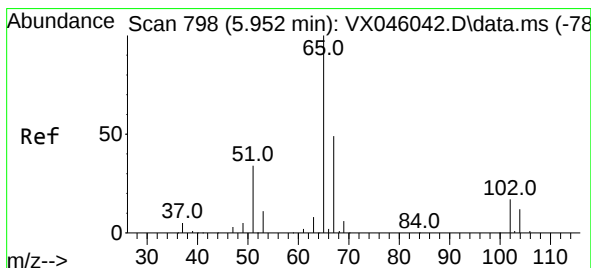
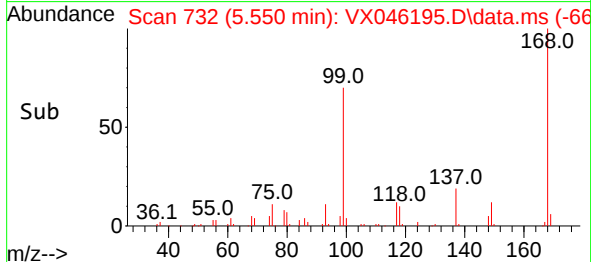
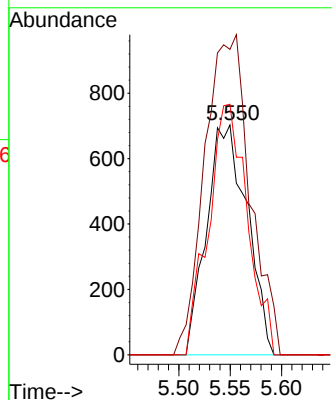
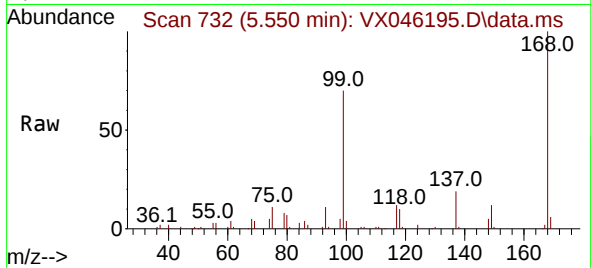




#31
Cyclohexane
Concen: 1.349 ug/l
RT: 5.550 min Scan# 718
Delta R.T. 0.085 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

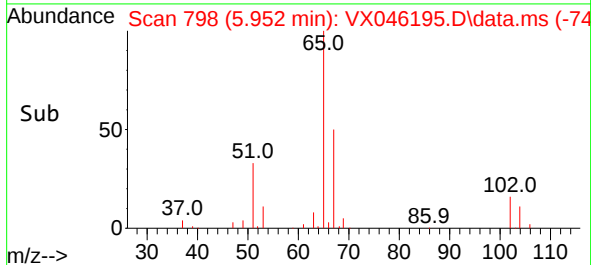
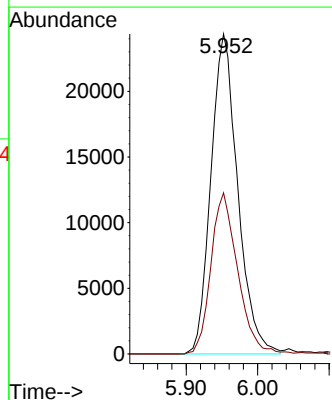
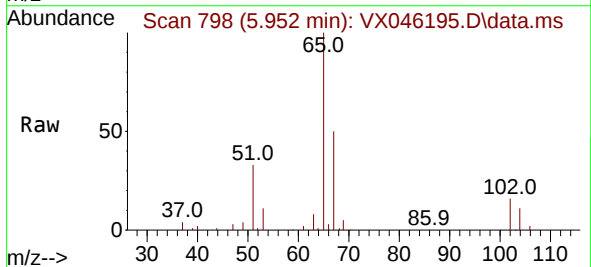
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

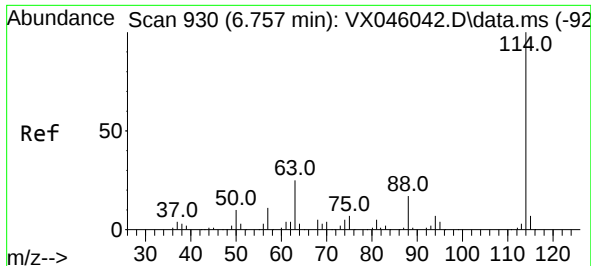
Tgt Ion: 56 Resp: 1930
Ion Ratio Lower Upper
56 100
69 132.9 24.4 36.6#
84 109.0 66.9 100.3#



#33
1,2-Dichloroethane-d4
Concen: 52.802 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 65 Resp: 63366
Ion Ratio Lower Upper
65 100
67 50.3 0.0 99.0

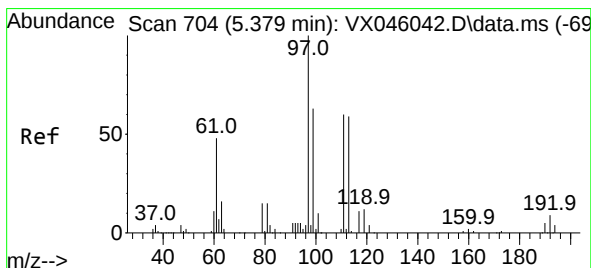
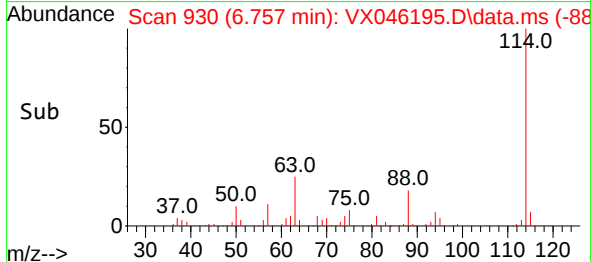
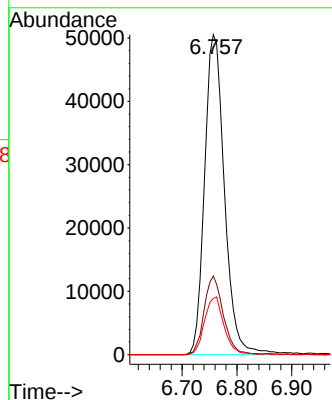
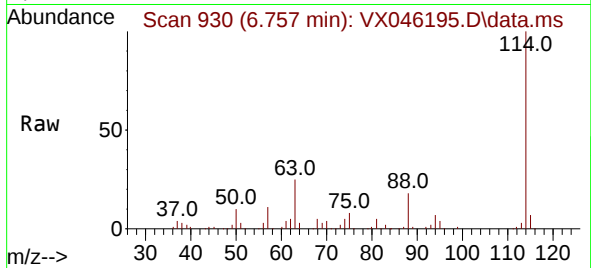




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VX046195.D
 Acq: 14 May 2025 15:32

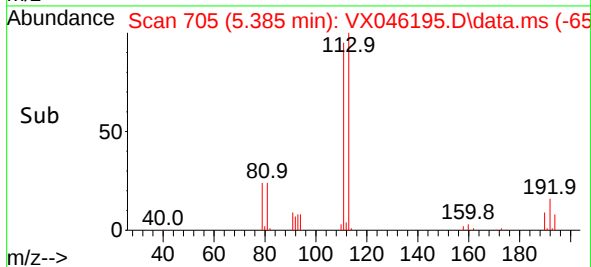
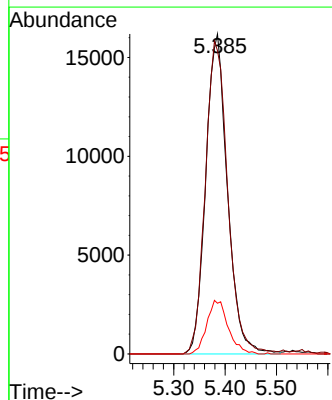
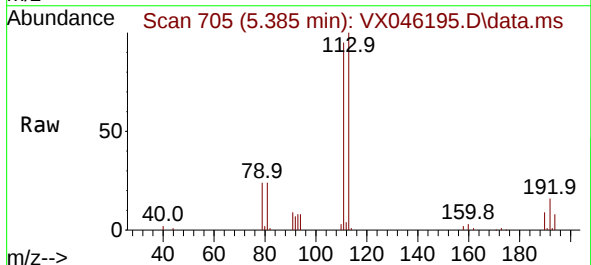
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-08

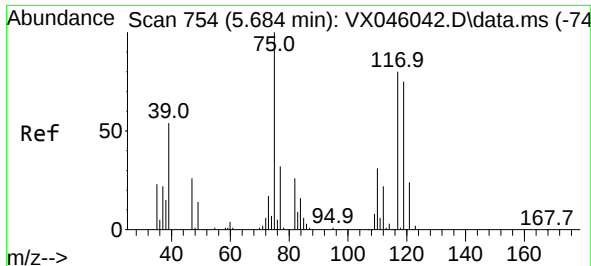
Tgt Ion:114 Resp: 127208
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 49.2
 88 17.5 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 51.810 ug/l
 RT: 5.385 min Scan# 705
 Delta R.T. 0.006 min
 Lab File: VX046195.D
 Acq: 14 May 2025 15:32

Tgt Ion:113 Resp: 47460
 Ion Ratio Lower Upper
 113 100
 111 100.9 83.1 124.7
 192 16.5 13.3 19.9





#36

1,1-Dichloropropene

Concen: 5.118 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX046195.D

Acq: 14 May 2025 15:32

Instrument :

MSVOA_X

ClientSampleId :

TW-WTS-08

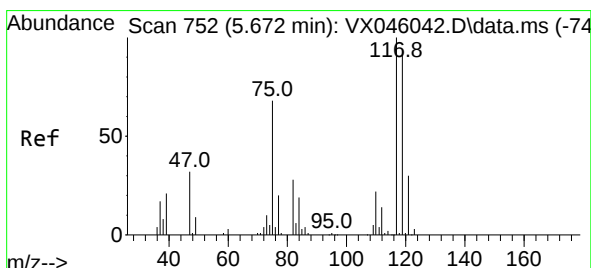
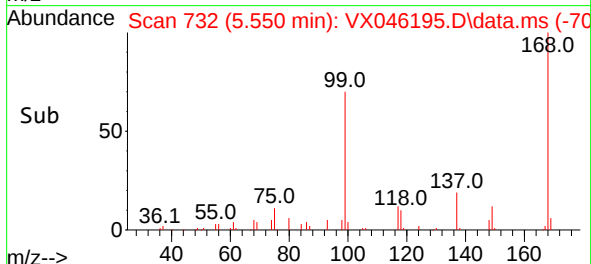
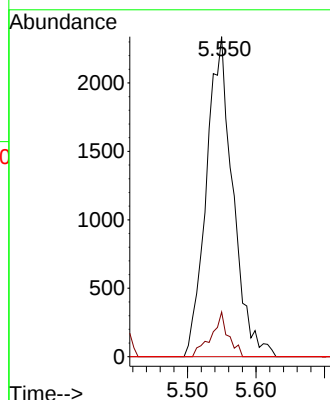
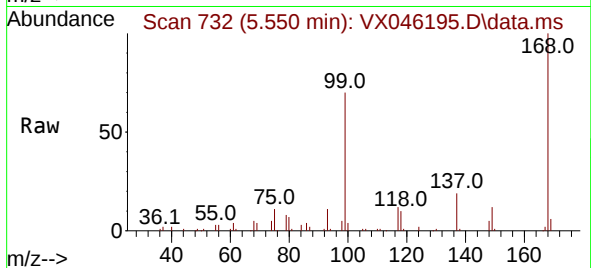
Tgt Ion: 75 Resp: 6299

Ion Ratio Lower Upper

75 100

110 8.9 16.3 48.9#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 5.392 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.122 min

Lab File: VX046195.D

Acq: 14 May 2025 15:32

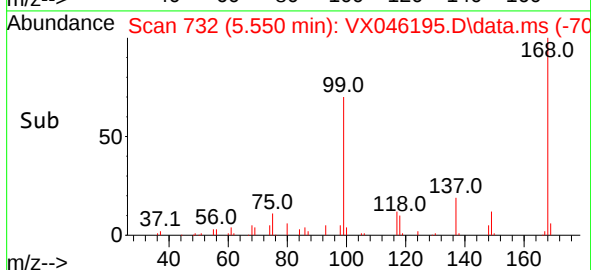
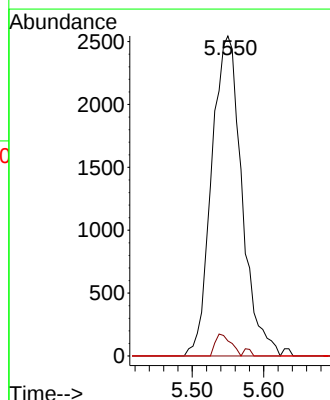
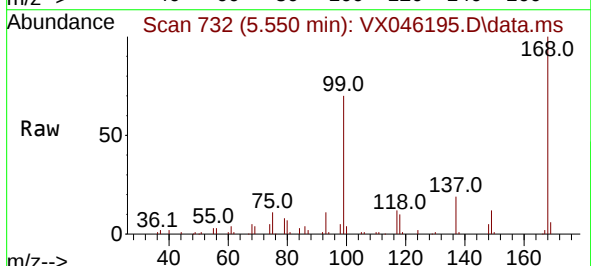
Tgt Ion: 117 Resp: 7457

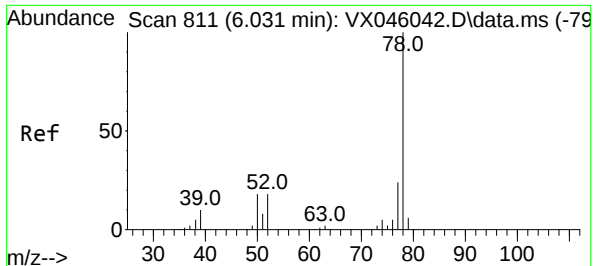
Ion Ratio Lower Upper

117 100

119 4.7 75.2 112.8#

121 0.0 24.2 36.4#

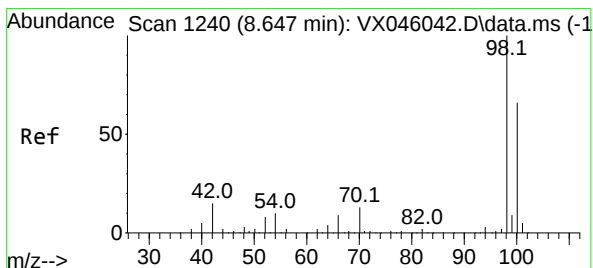
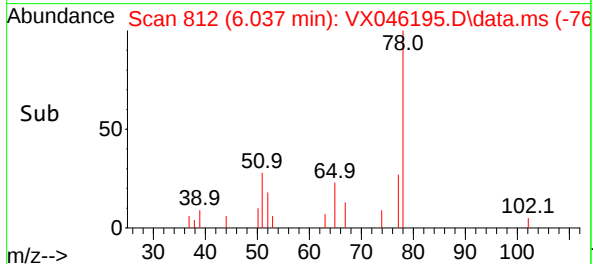
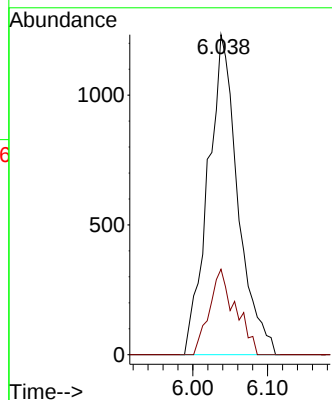
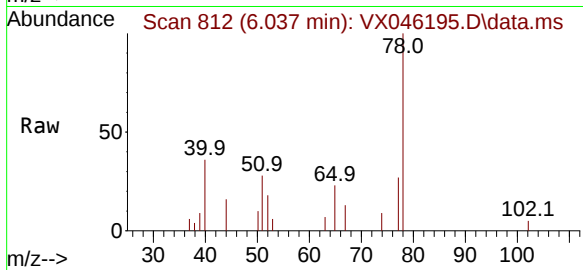




#40
Benzene
Concen: 0.955 ug/l
RT: 6.037 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

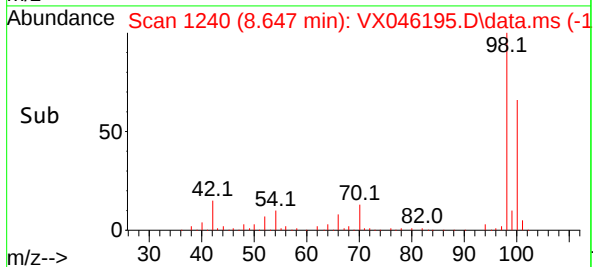
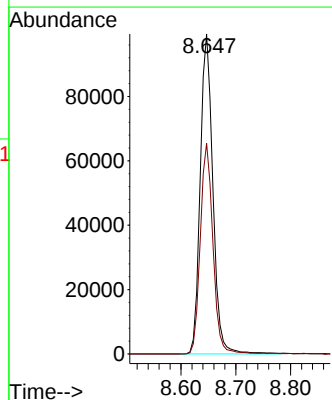
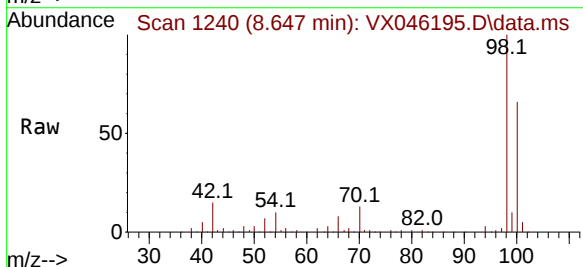
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

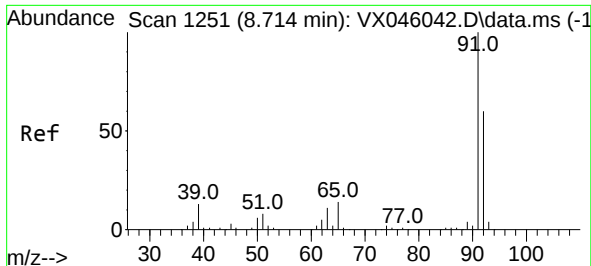
Tgt Ion: 78 Resp: 3443
Ion Ratio Lower Upper
78 100
77 26.7 19.0 28.4



#50
Toluene-d8
Concen: 50.320 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 98 Resp: 159540
Ion Ratio Lower Upper
98 100
100 65.7 53.5 80.3

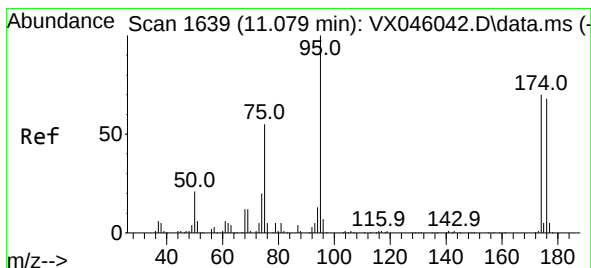
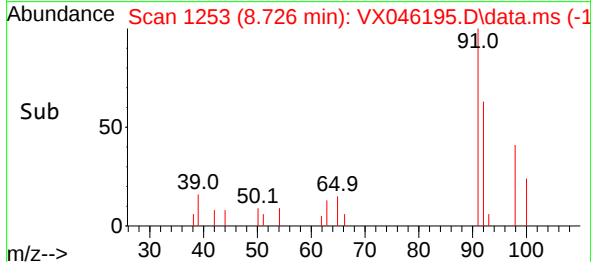
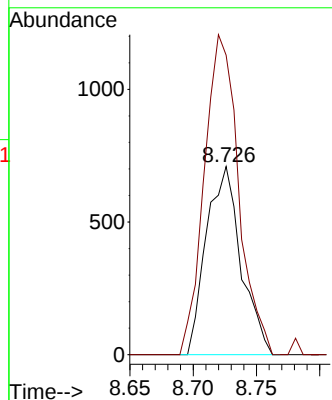
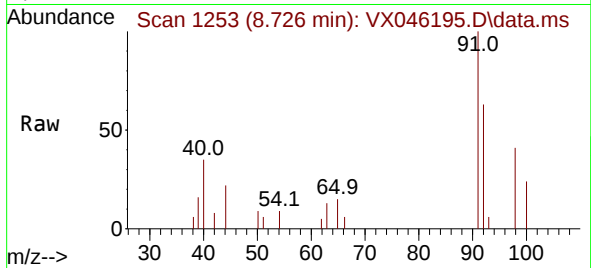




#52
Toluene
Concen: 0.611 ug/l
RT: 8.726 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

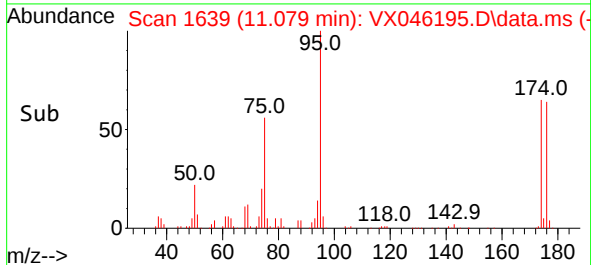
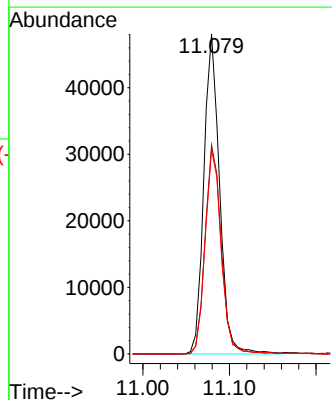
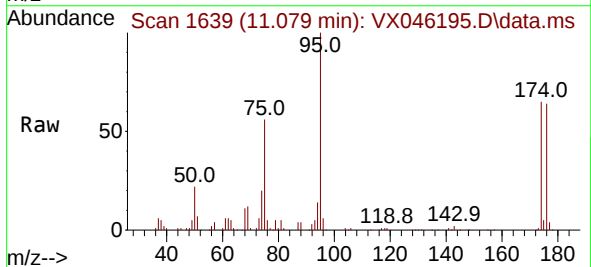
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

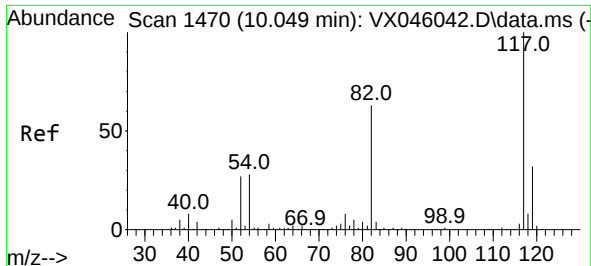
Tgt Ion: 92 Resp: 1350
Ion Ratio Lower Upper
92 100
91 168.6 136.6 205.0



#62
4-Bromofluorobenzene
Concen: 49.849 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 95 Resp: 60625
Ion Ratio Lower Upper
95 100
174 67.0 0.0 135.8
176 65.4 0.0 131.4

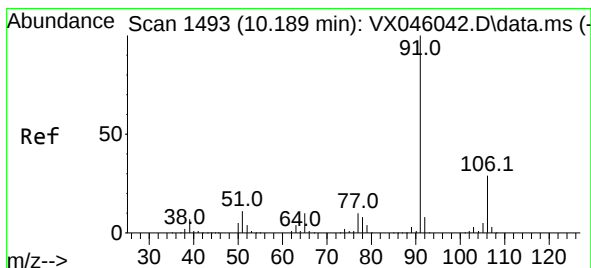
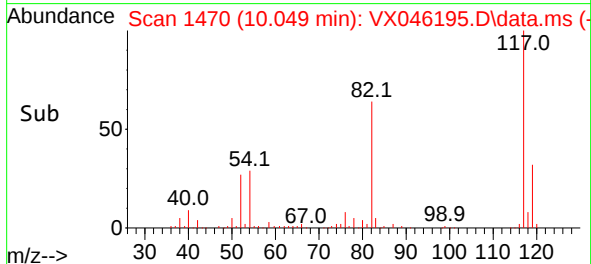
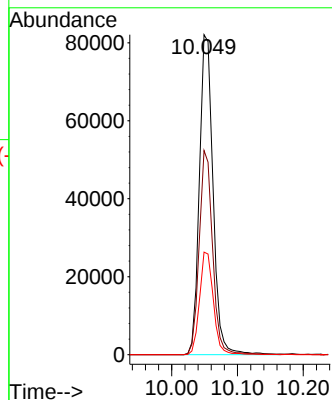
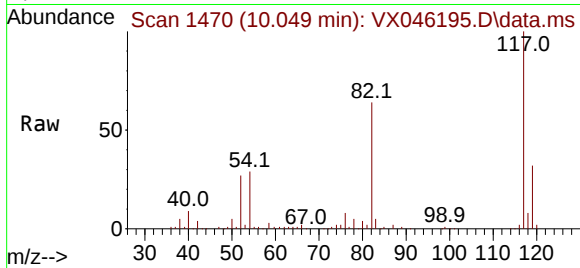




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

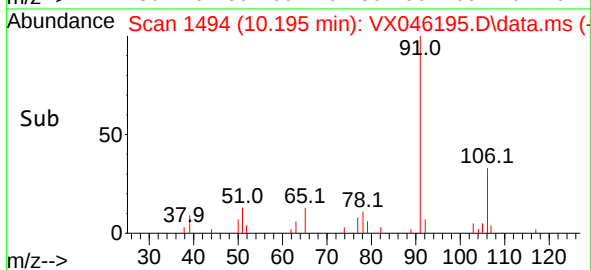
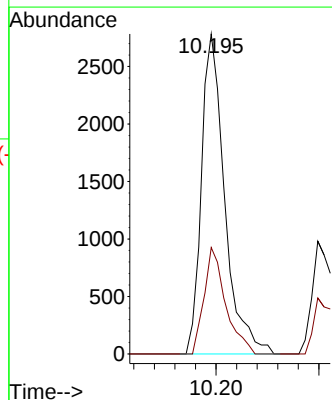
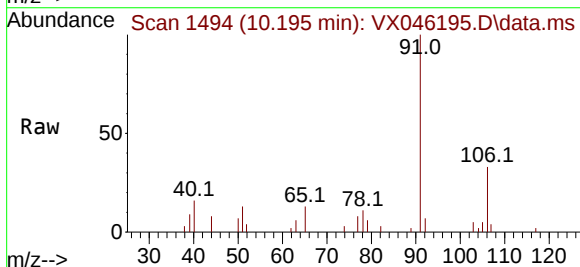
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

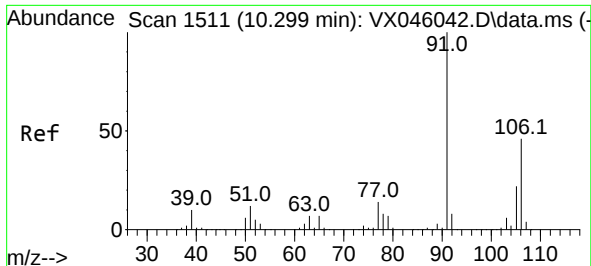
Tgt Ion:117 Resp: 118657
Ion Ratio Lower Upper
117 100
82 63.8 50.6 76.0
119 32.1 25.8 38.6



#67
Ethyl Benzene
Concen: 0.955 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 91 Resp: 4372
Ion Ratio Lower Upper
91 100
106 33.3 23.4 35.2

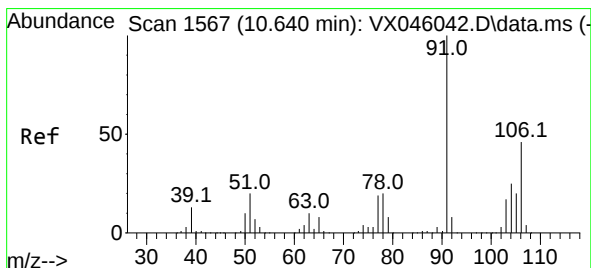
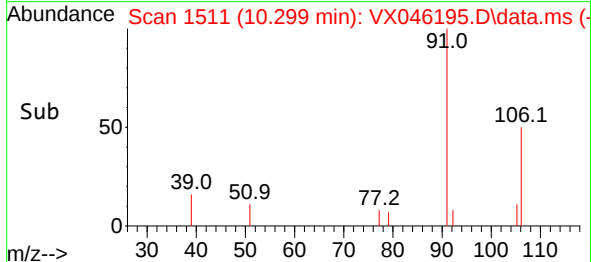
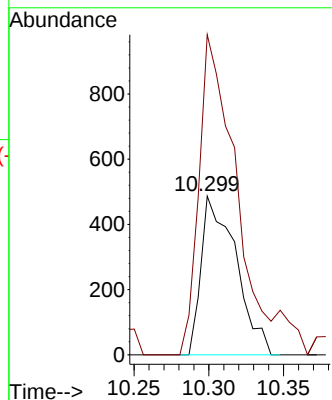
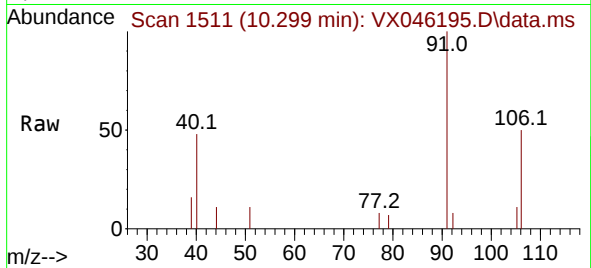




#68
m/p-Xylenes
Concen: 0.469 ug/l
RT: 10.299 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

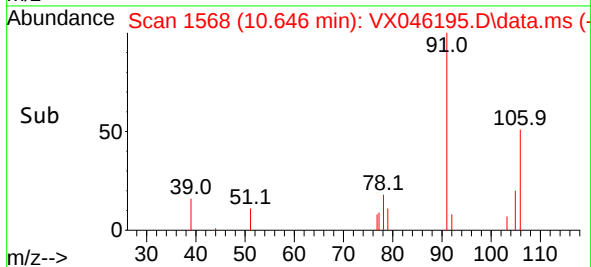
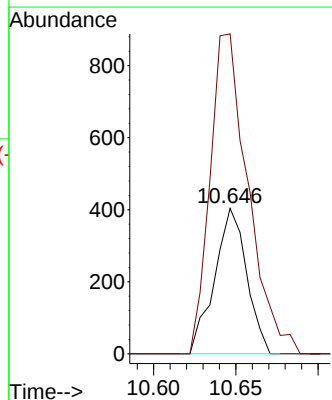
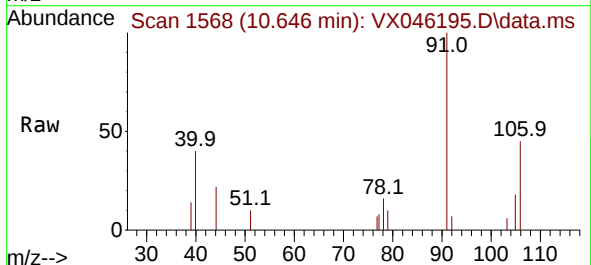
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

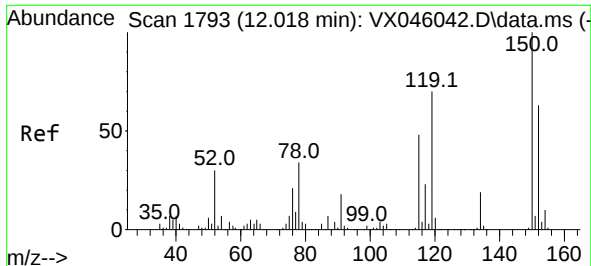
Tgt Ion:106 Resp: 785
Ion Ratio Lower Upper
106 100
91 225.0 171.2 256.8



#69
o-Xylene
Concen: 0.336 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion:106 Resp: 549
Ion Ratio Lower Upper
106 100
91 260.7 112.7 338.1

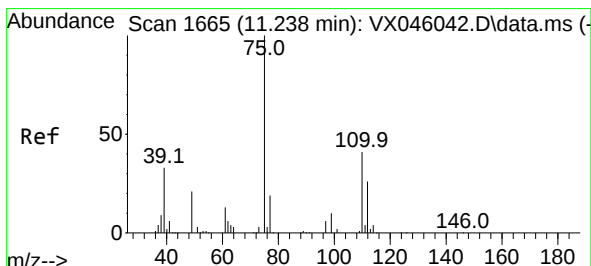
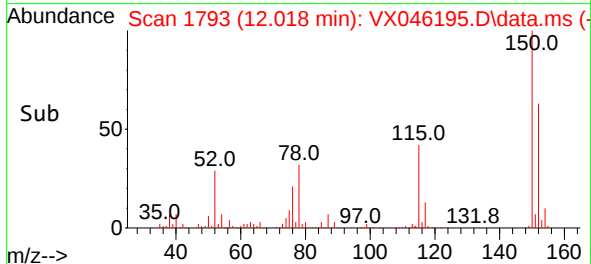
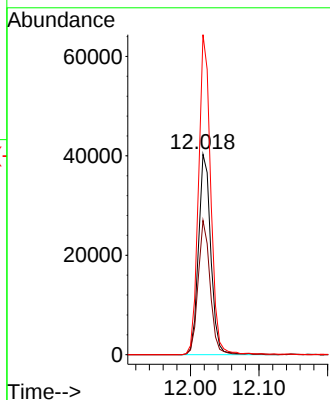
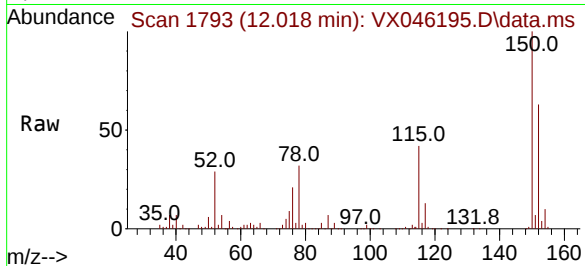




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

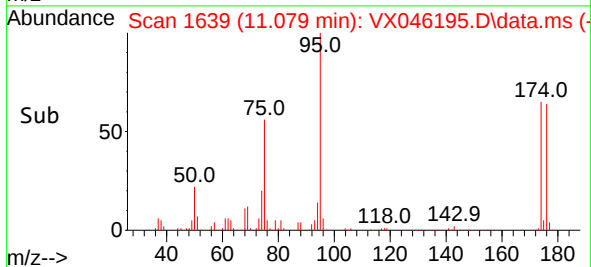
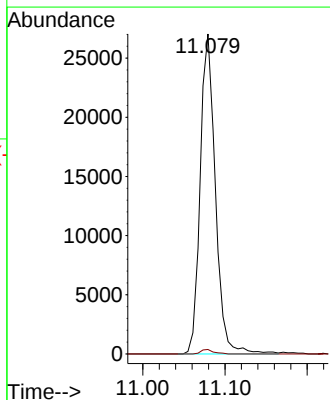
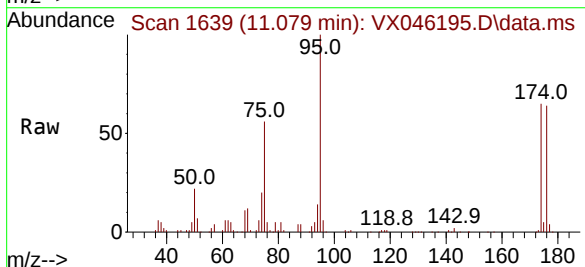
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

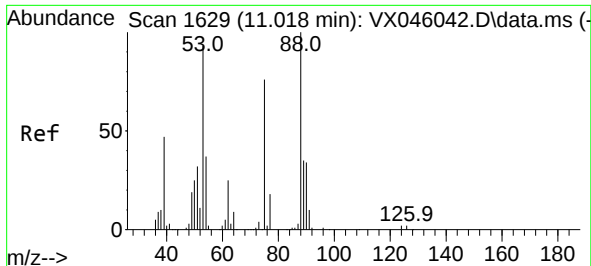
Tgt Ion:152 Resp: 50566
Ion Ratio Lower Upper
152 100
115 65.3 46.9 140.7
150 157.7 0.0 351.0



#76
1,2,3-Trichloropropane
Concen: 28.576 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion: 75 Resp: 34781
Ion Ratio Lower Upper
75 100
77 1.2 20.5 61.5#

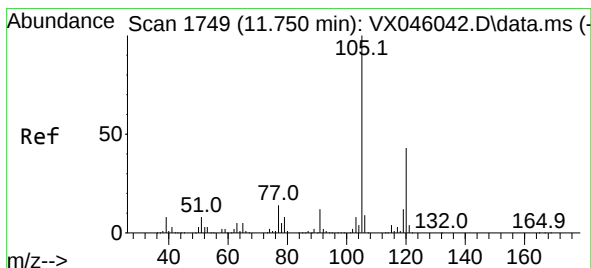
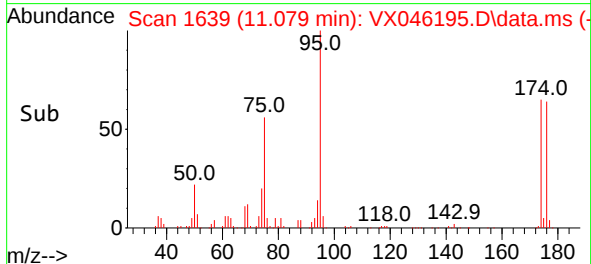
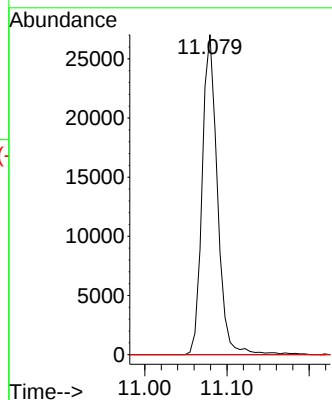
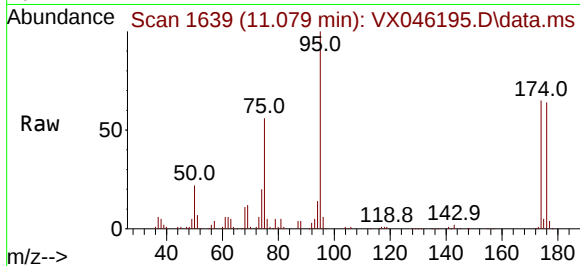




#81
trans-1,4-Dichloro-2-butene
Concen: 93.034 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

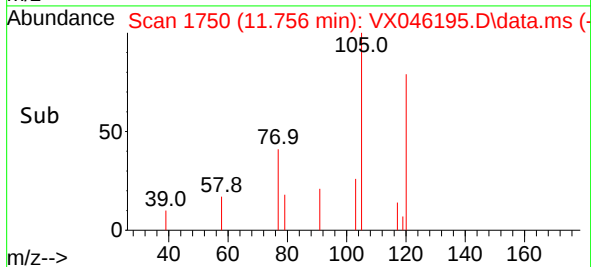
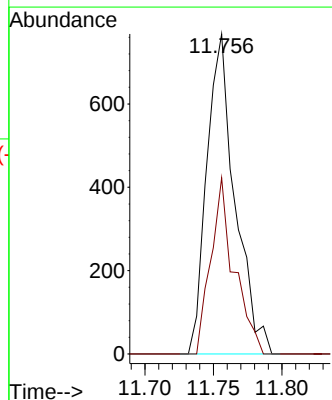
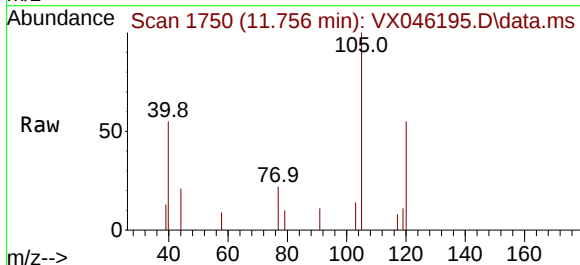
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-08

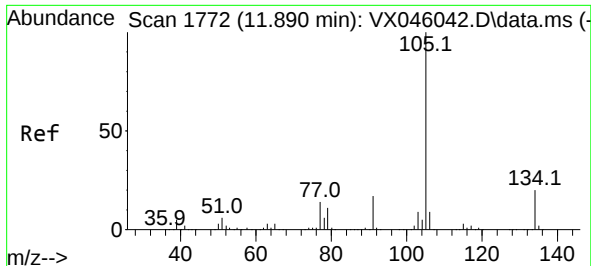
Tgt Ion: 75 Resp: 34781
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#



#84
1,2,4-Trimethylbenzene
Concen: 0.330 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046195.D
Acq: 14 May 2025 15:32

Tgt Ion:105 Resp: 1098
Ion Ratio Lower Upper
105 100
120 45.6 21.2 63.6

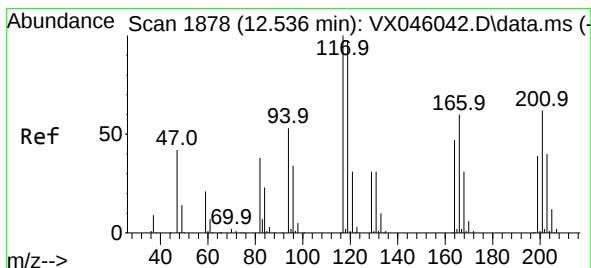
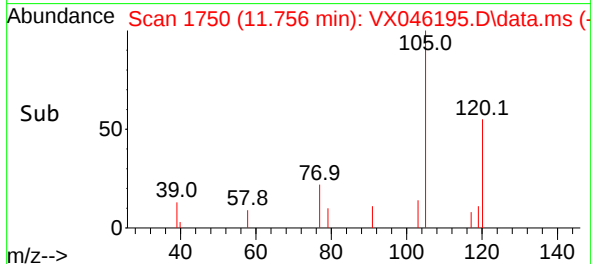
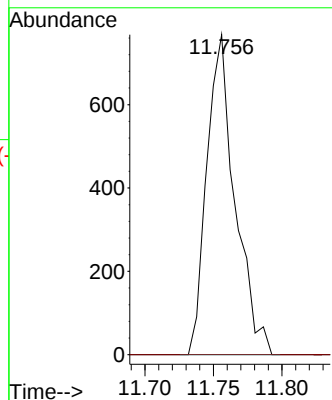
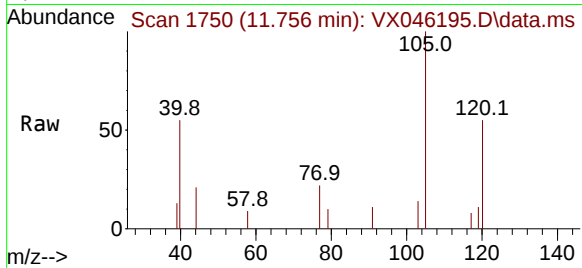




#85
 sec-Butylbenzene
 Concen: 0.270 ug/l
 RT: 11.756 min Scan# 11
 Delta R.T. -0.134 min
 Lab File: VX046195.D
 Acq: 14 May 2025 15:32

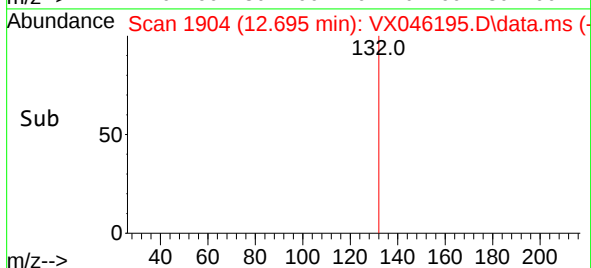
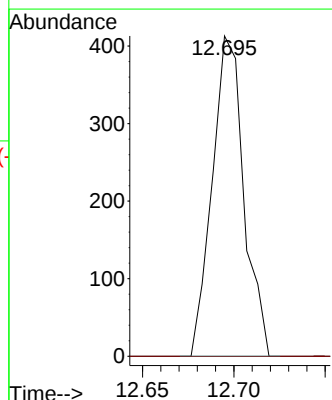
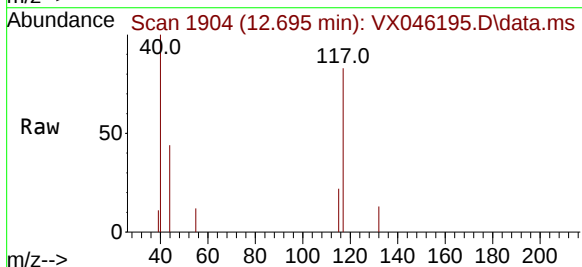
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-08

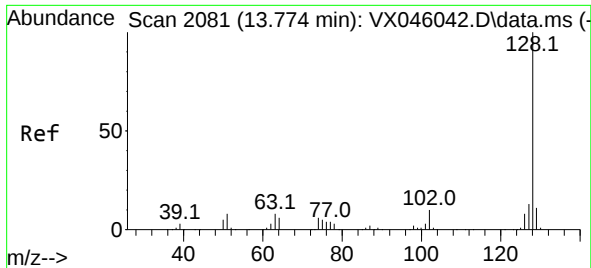
Tgt Ion:105 Resp: 1098
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 29.1#



#90
 Hexachloroethane
 Concen: 0.840 ug/l
 RT: 12.695 min Scan# 1904
 Delta R.T. 0.158 min
 Lab File: VX046195.D
 Acq: 14 May 2025 15:32

Tgt Ion:117 Resp: 497
 Ion Ratio Lower Upper
 117 100
 201 0.0 31.6 94.7#





#95

Naphthalene

Concen: 5.343 ug/l

RT: 13.774 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX046195.D

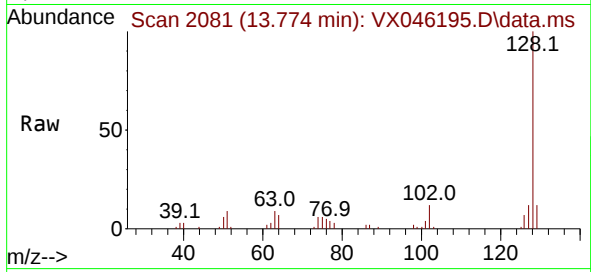
Acq: 14 May 2025 15:32

Instrument :

MSVOA_X

ClientSampleId :

TW-WTS-08



Tgt Ion:128 Resp: 18840

Ion Ratio Lower Upper

128 100

127 11.8 10.4 15.6

129 11.1 8.6 13.0

