

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060325\
 Data File : VX046472.D
 Acq On : 03 Jun 2025 14:56
 Operator : JC/MD
 Sample : Q2159-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP05-MHO-WC

Quant Time: Jun 04 01:28:08 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	67522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	135089	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	126061	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	54309	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66931	53.169	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.340%	
35) Dibromofluoromethane	5.385	113	49337	50.717	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.440%	
50) Toluene-d8	8.647	98	170992	50.786	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.580%	
62) 4-Bromofluorobenzene	11.079	95	66394	51.408	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 102.820%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	133	0.283	ug/l	54
11) Tert butyl alcohol	2.965	59	186	1.053	ug/l #	72
16) Acetone	2.380	43	46552	92.231	ug/l	99
18) Methyl Acetate	2.703	43	13731	11.723	ug/l	100
20) Methylene Chloride	2.788	84	3616	3.739	ug/l	89
25) 2-Butanone	4.587	43	1426	1.946	ug/l #	88
29) Tetrahydrofuran	5.044	42	244	0.531	ug/l #	35
31) Cyclohexane	5.538	56	2006	1.337	ug/l #	29
36) 1,1-Dichloropropene	5.550	75	6722	5.143	ug/l #	53
37) Ethyl Acetate	4.733	43	4218	2.612	ug/l #	89
38) Carbon Tetrachloride	5.544	117	8001	5.448	ug/l #	16
43) Isopropyl Acetate	6.355	43	3730	1.514	ug/l #	93
48) Methyl methacrylate	7.799	41	28238	22.444	ug/l #	50
49) 1,4-Dioxane	7.799	88	24	1.005	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	59247	36.231	ug/l #	50
54) cis-1,3-Dichloropropene	8.543	75	23630	16.266	ug/l #	62
57) 1,3-Dichloropropane	9.482	76	1684	1.013	ug/l #	42
59) 2-Hexanone	9.482	43	27150	22.441	ug/l #	52
74) N-amyl acetate	10.640	43	7699	3.685	ug/l #	54
76) 1,2,3-Trichloropropane	11.079	75	37258	28.501	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	37258	92.791	ug/l #	1

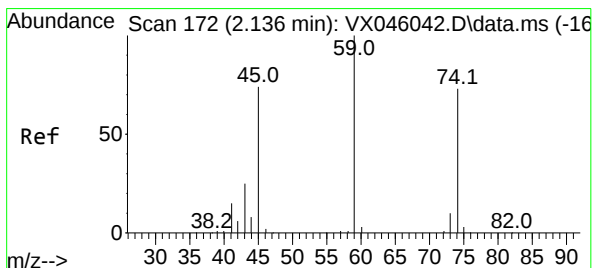
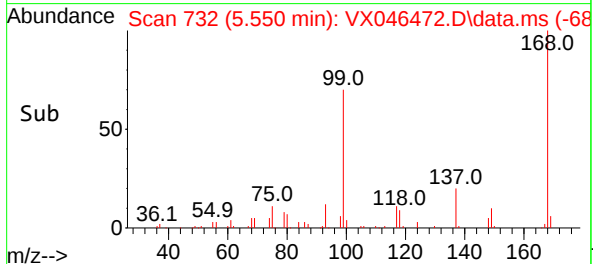
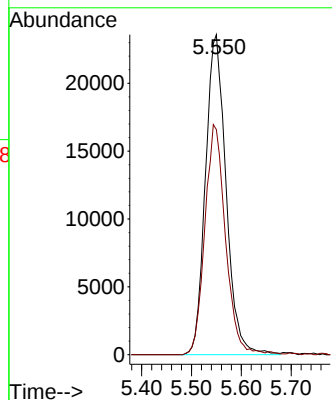
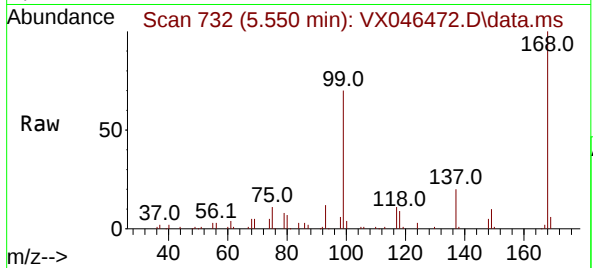
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

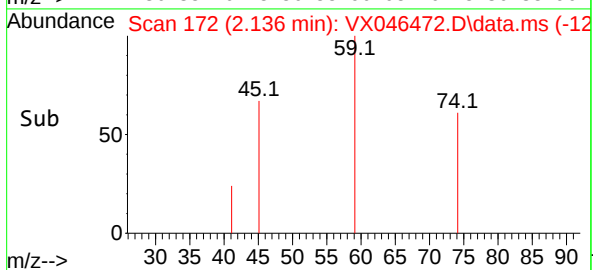
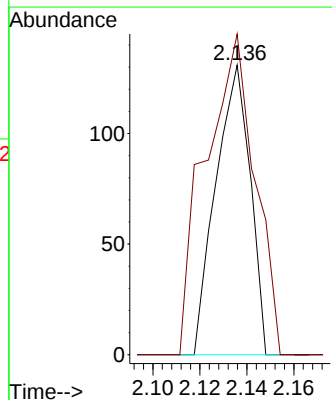
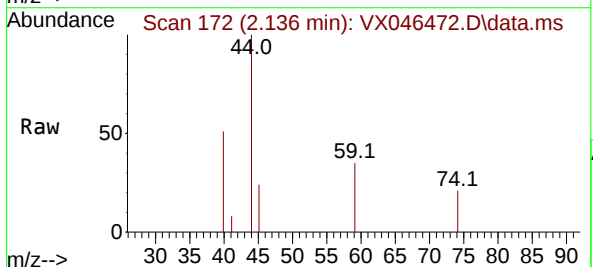
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

Tgt Ion:168 Resp: 67522
Ion Ratio Lower Upper
168 100
99 70.4 54.9 82.3



#8
Diethyl Ether
Concen: 0.283 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 74 Resp: 133
Ion Ratio Lower Upper
74 100
45 158.6 54.9 164.8

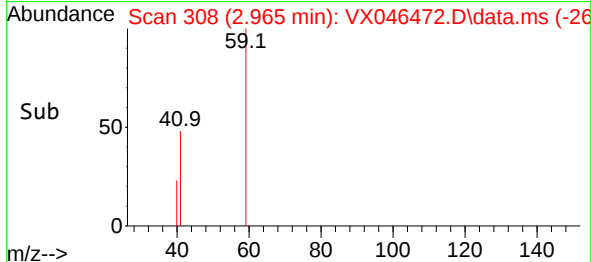
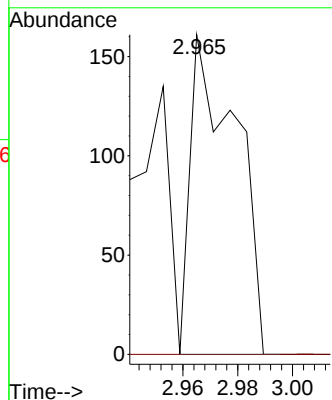
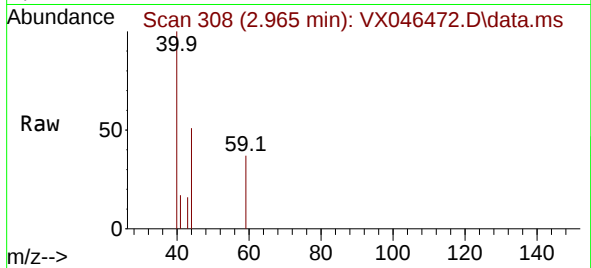




#11
Tert butyl alcohol
Concen: 1.053 ug/l
RT: 2.965 min Scan# 30
Delta R.T. -0.012 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

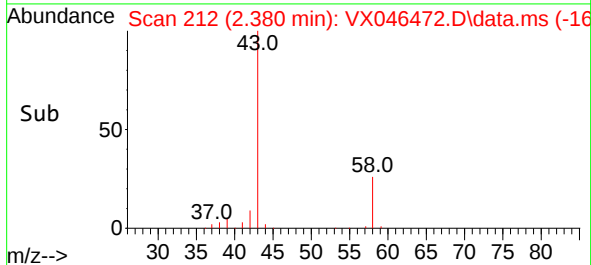
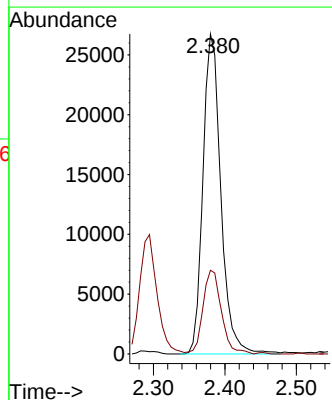
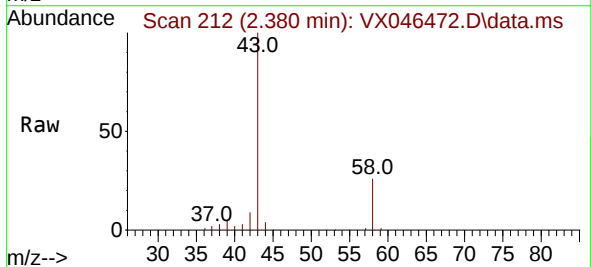
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

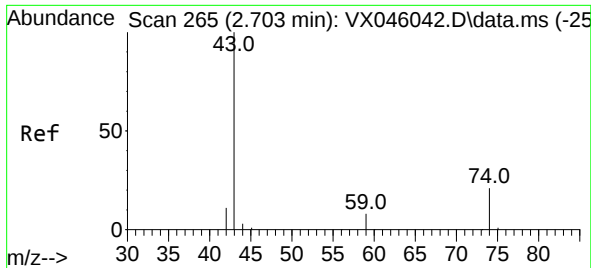
Tgt Ion: 59 Resp: 186
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 92.231 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 43 Resp: 46552
Ion Ratio Lower Upper
43 100
58 26.2 21.2 31.8

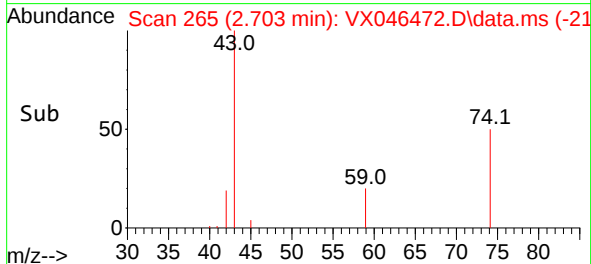
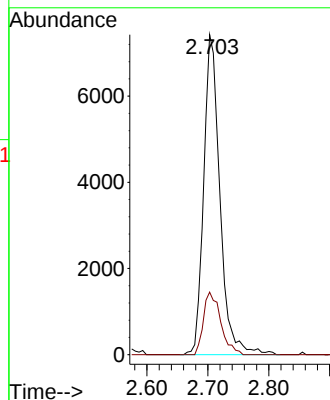
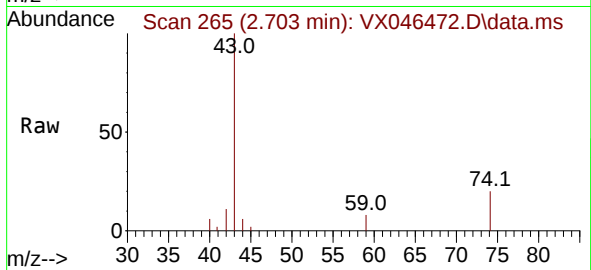




#18
Methyl Acetate
Concen: 11.723 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

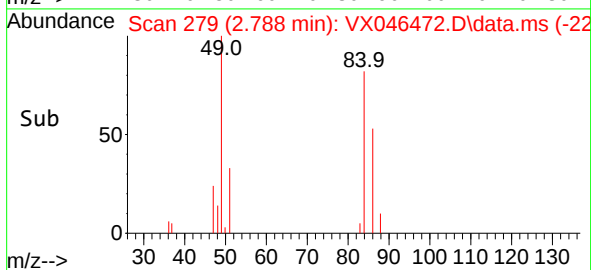
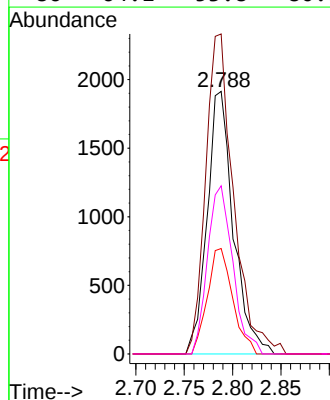
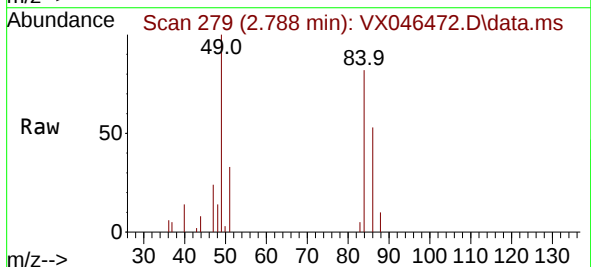
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

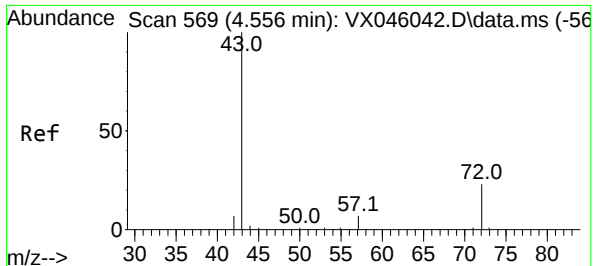
Tgt Ion: 43 Resp: 13731
Ion Ratio Lower Upper
43 100
74 20.8 16.7 25.1



#20
Methylene Chloride
Concen: 3.739 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 84 Resp: 3616
Ion Ratio Lower Upper
84 100
49 121.9 113.9 170.9
51 40.2 33.5 50.3
86 64.1 53.8 80.8

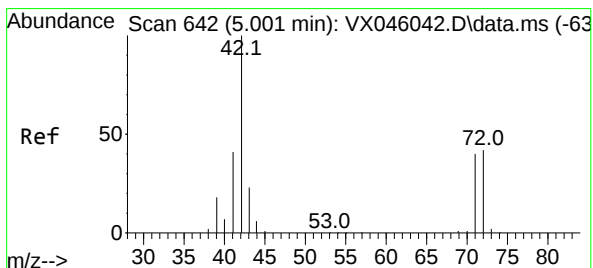
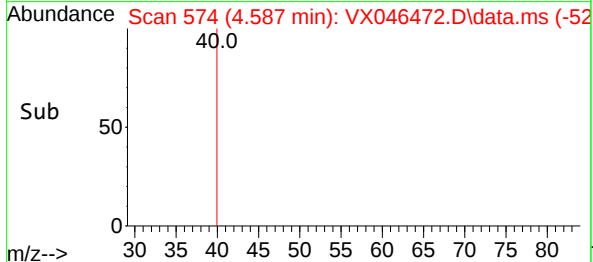
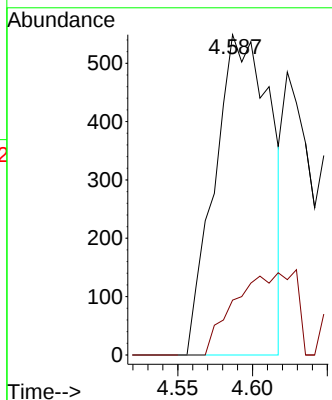
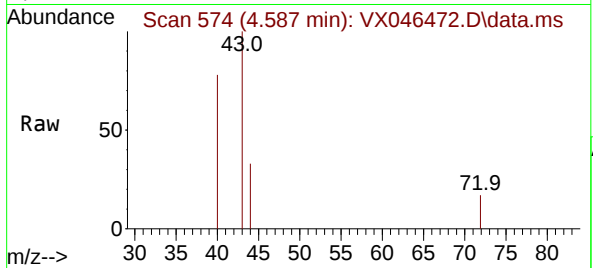




#25
2-Butanone
Concen: 1.946 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.031 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

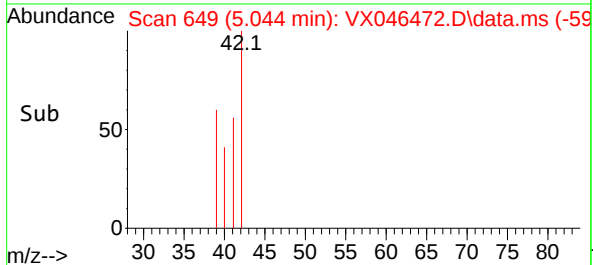
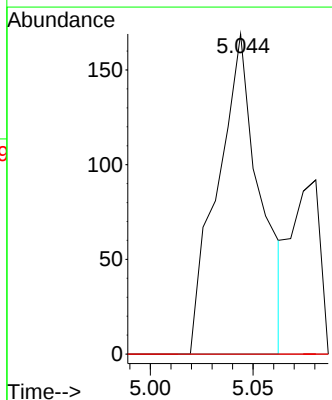
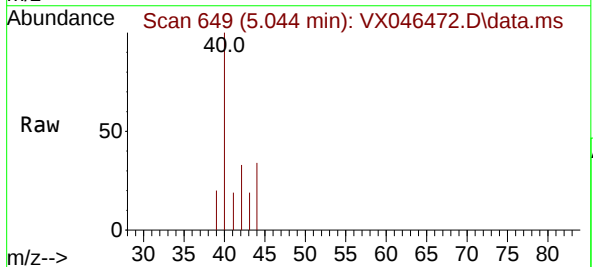
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MSVOA_X
ClientSampleId :
TP05-MHO-WC

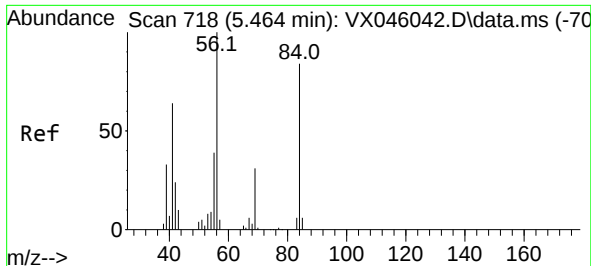
Tgt Ion: 43 Resp: 1426
Ion Ratio Lower Upper
43 100
72 17.1 18.4 27.6#



#29
Tetrahydrofuran
Concen: 0.531 ug/l
RT: 5.044 min Scan# 649
Delta R.T. 0.043 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 42 Resp: 244
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.4 47.2#

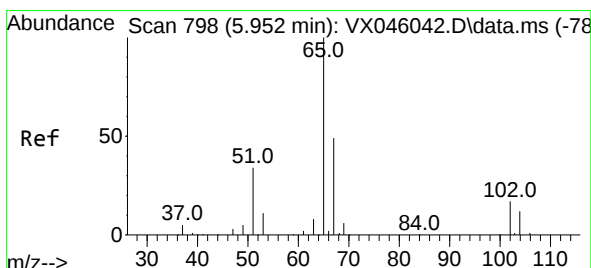
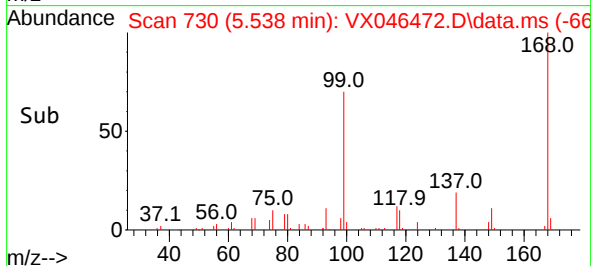
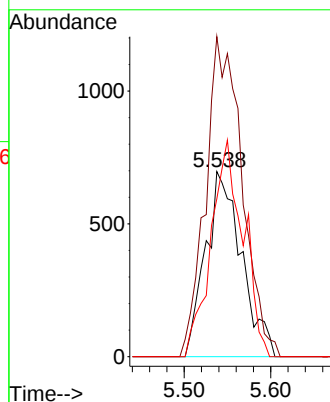
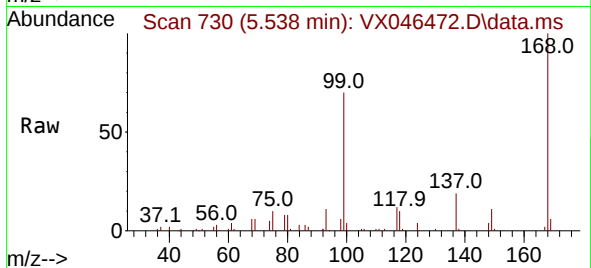




#31
Cyclohexane
Concen: 1.337 ug/l
RT: 5.538 min Scan# 718
Delta R.T. 0.073 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

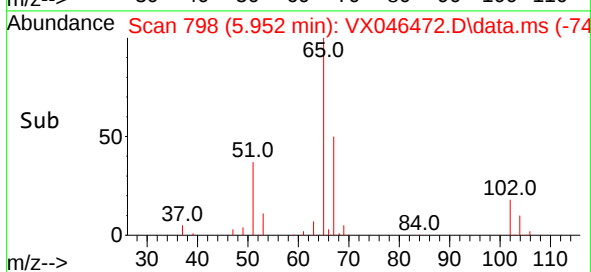
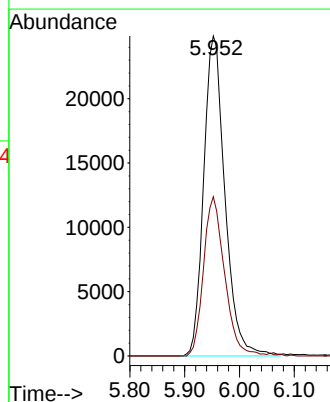
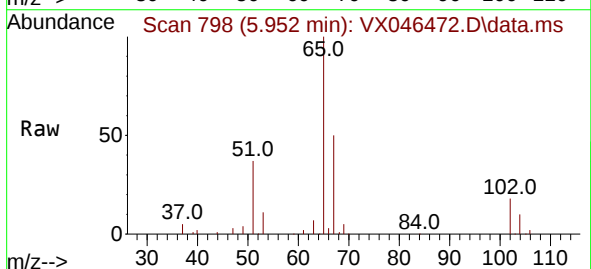
Instrument :
MSVOA_X
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TP05-MHO-WC

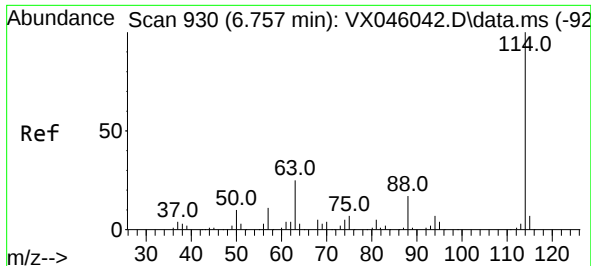
Tgt Ion: 56 Resp: 2006
Ion Ratio Lower Upper
56 100
69 172.9 24.4 36.6#
84 85.4 66.9 100.3



#33
1,2-Dichloroethane-d4
Concen: 53.169 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 65 Resp: 66931
Ion Ratio Lower Upper
65 100
67 49.2 0.0 99.0

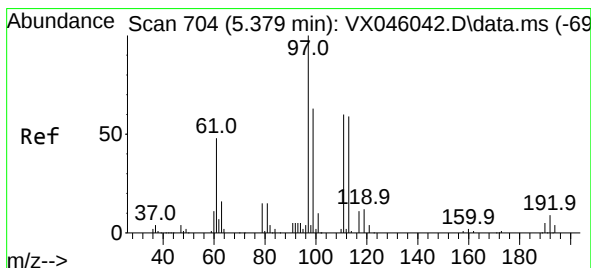
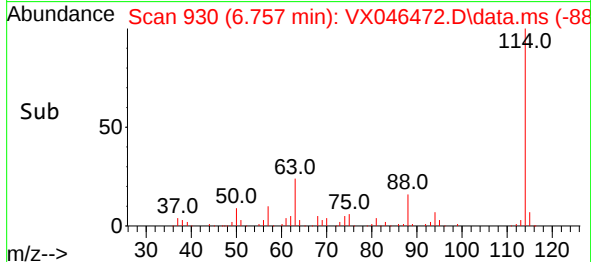
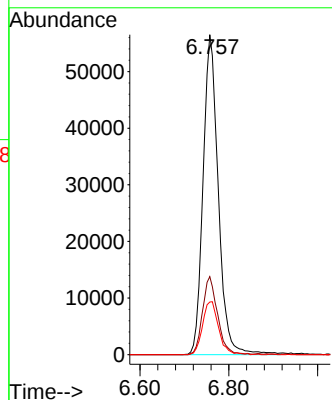
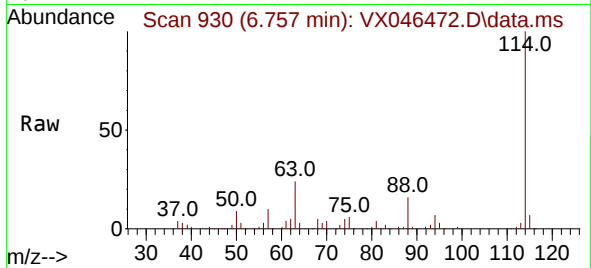




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX046472.D
 Acq: 03 Jun 2025 14:56

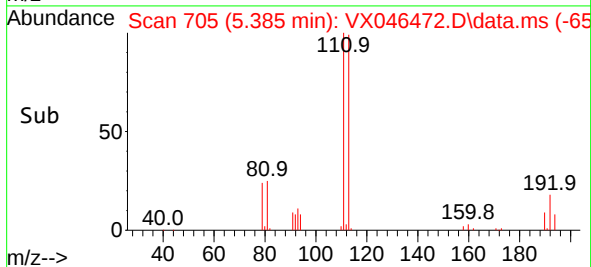
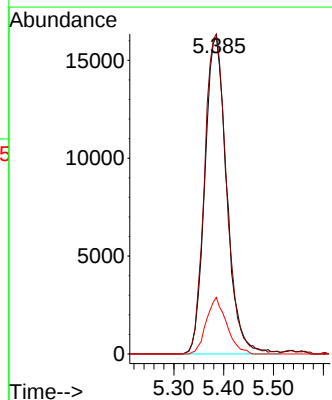
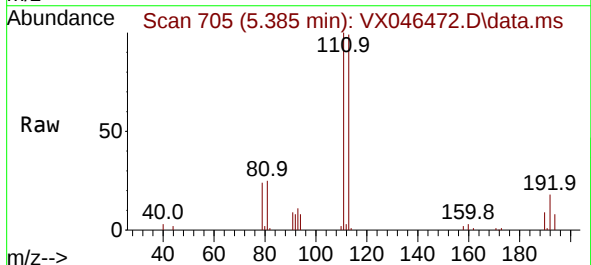
Instrument :
 MSVOA_X
 ClientSampleId :
 TP05-MHO-WC

Tgt Ion:114 Resp: 135089
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 49.2
 88 16.4 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.717 ug/l
 RT: 5.385 min Scan# 705
 Delta R.T. 0.006 min
 Lab File: VX046472.D
 Acq: 03 Jun 2025 14:56

Tgt Ion:113 Resp: 49337
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.1 124.7
 192 16.5 13.3 19.9





#36

1,1-Dichloropropene

Concen: 5.143 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX046472.D

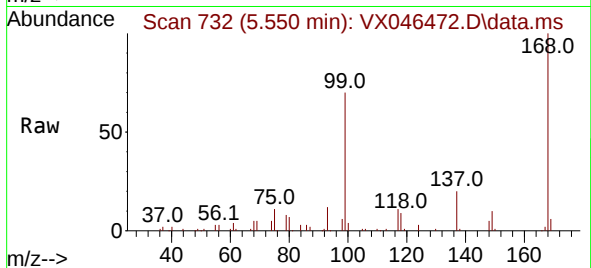
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Instrument :

MSVOA_X

ClientSampleId :

TP05-MHO-WC



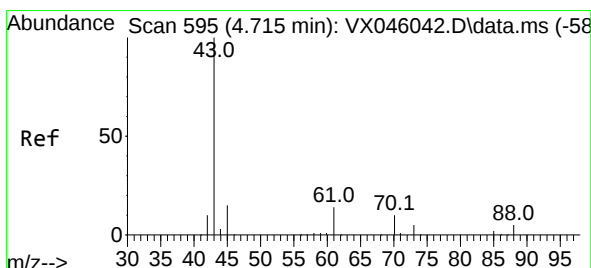
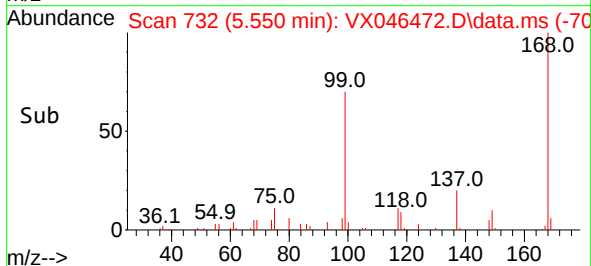
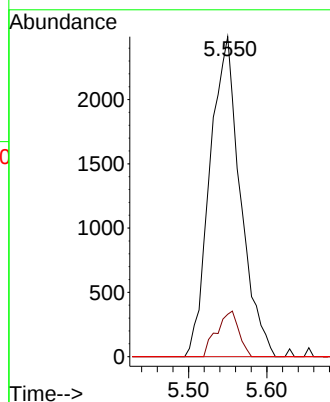
Tgt Ion: 75 Resp: 6722

Ion Ratio Lower Upper

75 100

110 10.3 16.3 48.9#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 2.612 ug/l

RT: 4.733 min Scan# 598

Delta R.T. 0.018 min

Lab File: VX046472.D

Acq: 03 Jun 2025 14:56

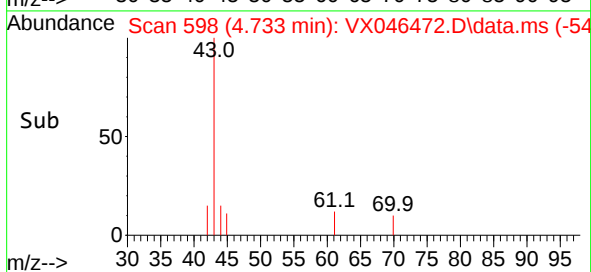
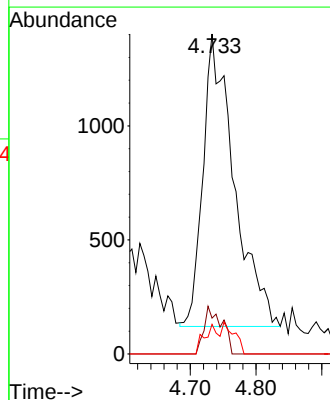
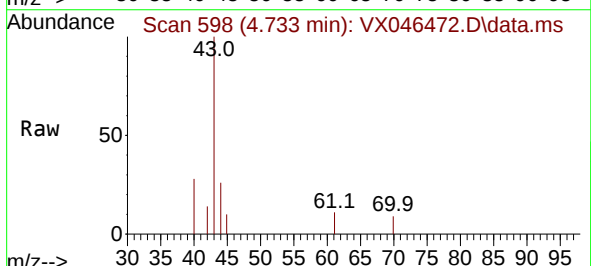
Tgt Ion: 43 Resp: 4218

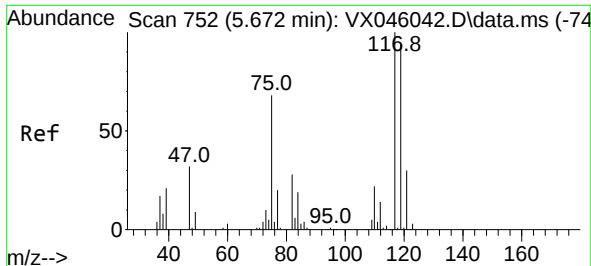
Ion Ratio Lower Upper

43 100

61 9.3 10.3 15.5#

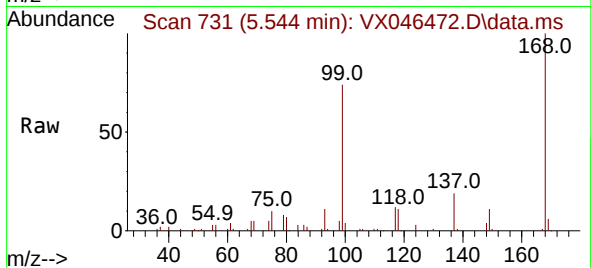
70 4.6 7.9 11.9#



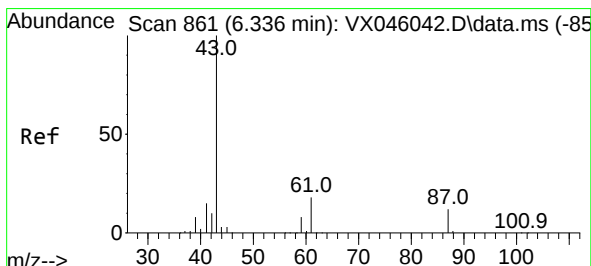
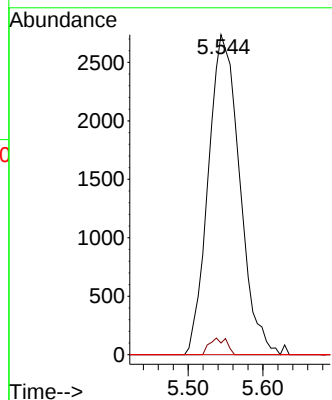
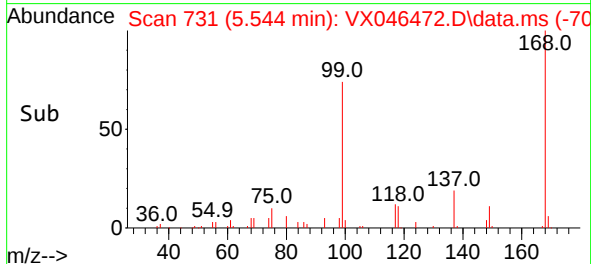


#38
Carbon Tetrachloride
Concen: 5.448 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

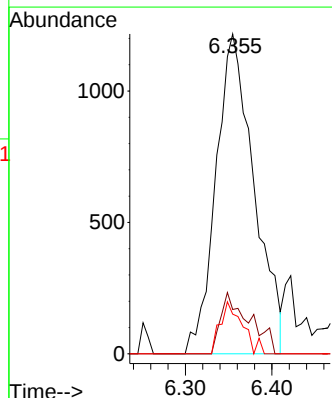
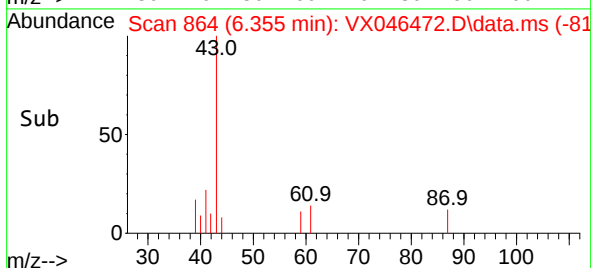
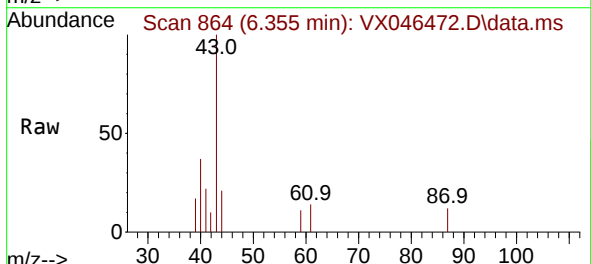


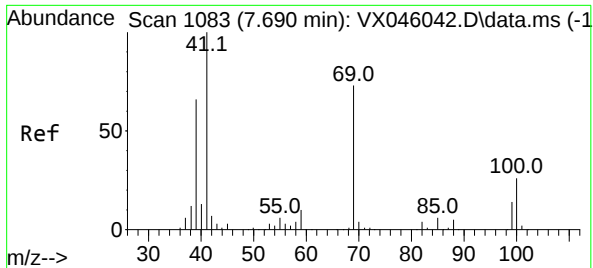
Tgt Ion:117 Resp: 8001
Ion Ratio Lower Upper
117 100
119 3.7 75.2 112.8#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 1.514 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.018 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 43 Resp: 3730
Ion Ratio Lower Upper
43 100
61 14.4 14.3 21.5
87 9.5 9.5 14.3#

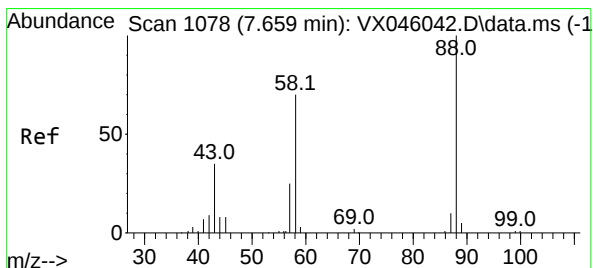
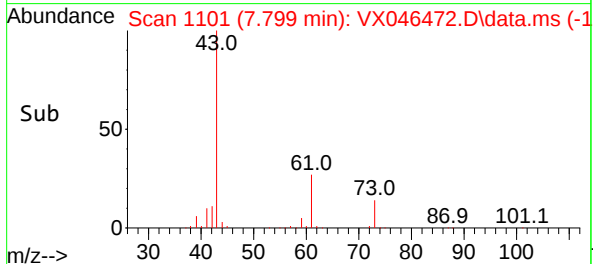
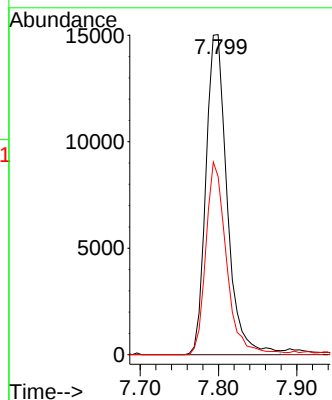
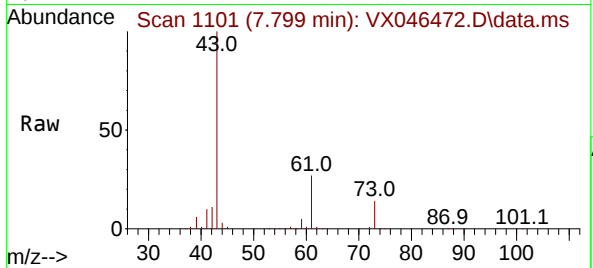




#48
Methyl methacrylate
Concen: 22.444 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

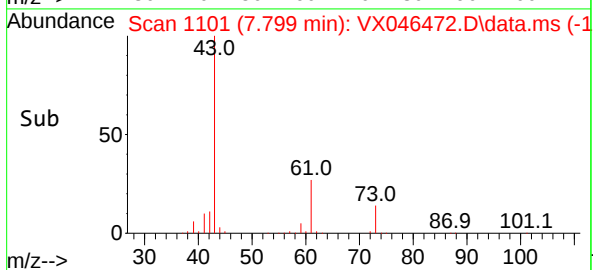
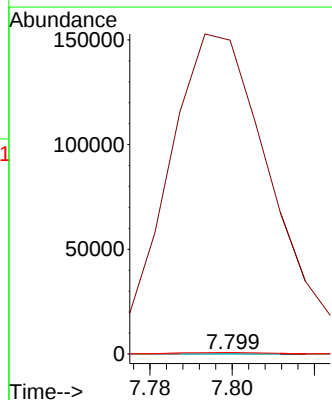
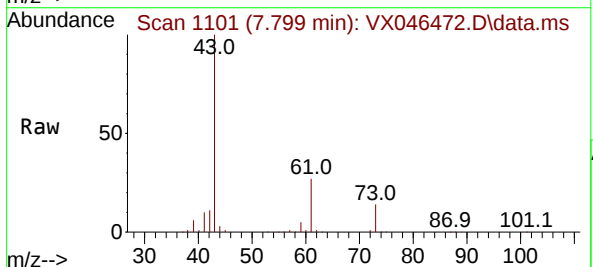
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

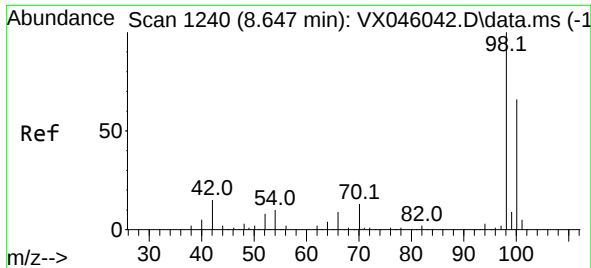
Tgt Ion: 41 Resp: 28238
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 58.6 51.7 77.5



#49
1,4-Dioxane
Concen: 1.005 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.140 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 1177437.5 33.4 50.2#
58 4979.2 58.6 88.0#

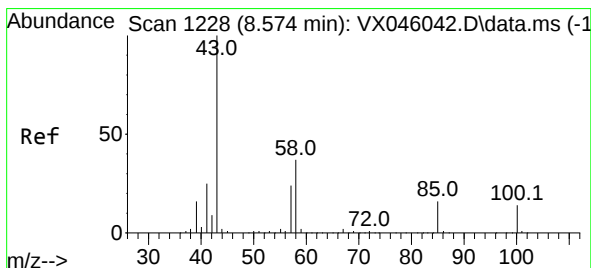
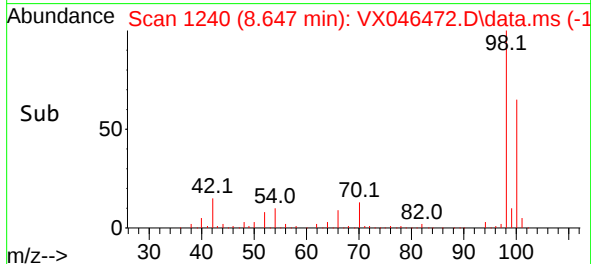
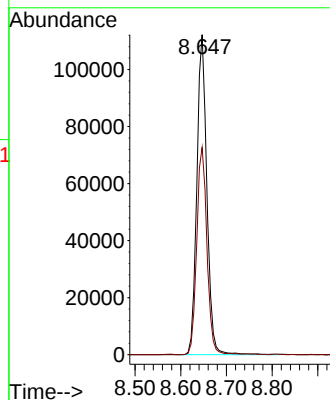
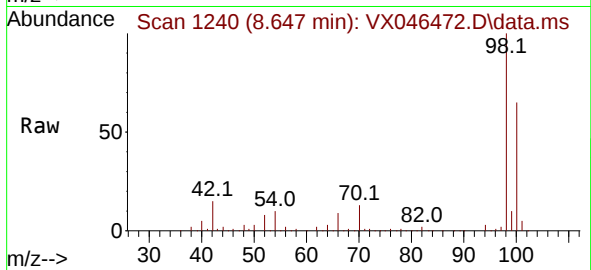




#50
Toluene-d8
Concen: 50.786 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

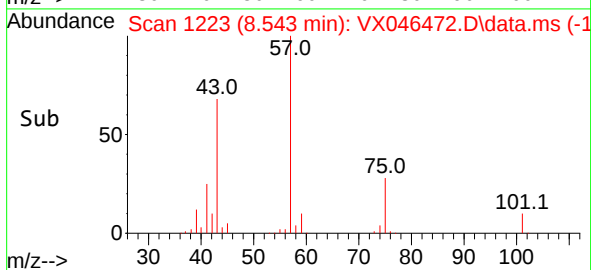
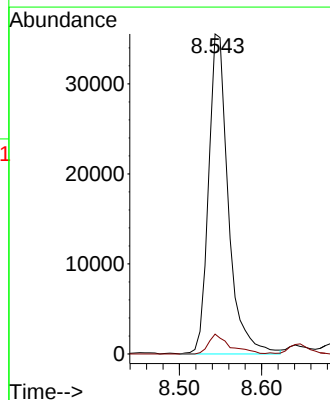
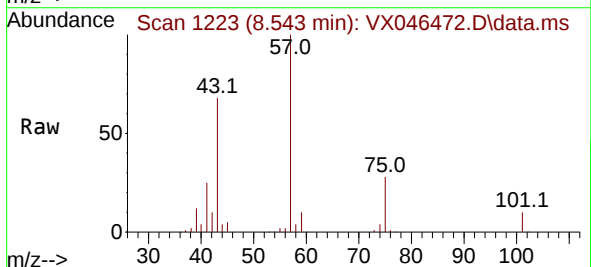
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

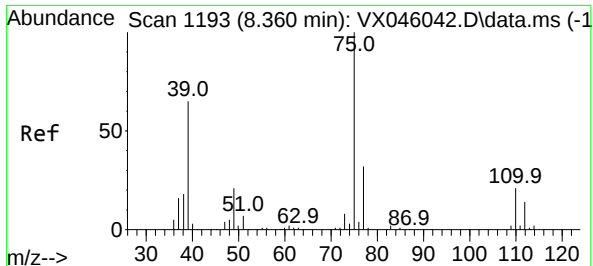
Tgt Ion: 98 Resp: 170992
Ion Ratio Lower Upper
98 100
100 66.0 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 36.231 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.030 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 43 Resp: 59247
Ion Ratio Lower Upper
43 100
58 6.7 28.9 43.3#





#54

cis-1,3-Dichloropropene

Concen: 16.266 ug/l

RT: 8.543 min Scan# 1193

Delta R.T. 0.183 min

Lab File: VX046472.D

Acq: 03 Jun 2025 14:56

Instrument :

MSVOA_X

ClientSampleId :

TP05-MHO-WC

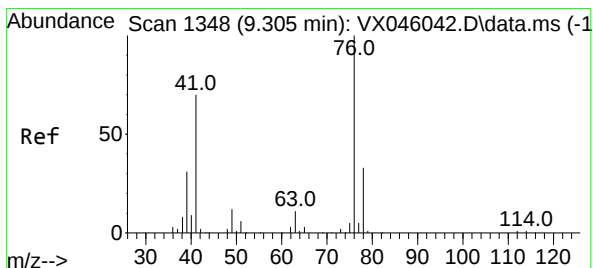
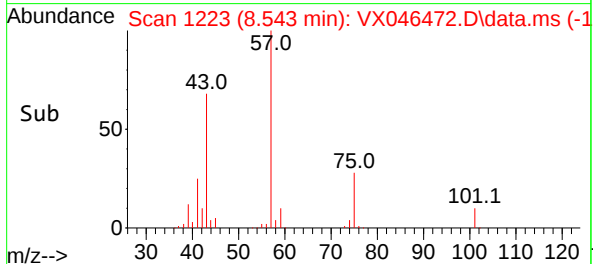
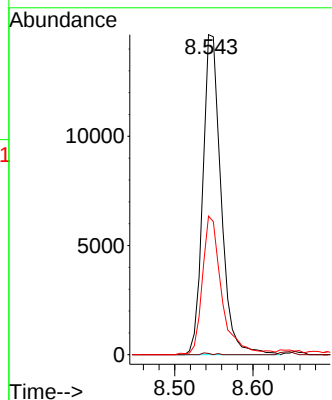
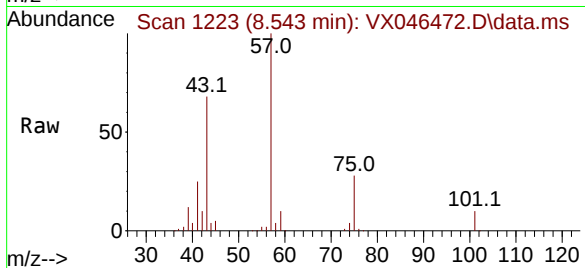
Tgt Ion: 75 Resp: 23630

Ion Ratio Lower Upper

75 100

77 0.4 25.4 38.0#

39 42.8 52.2 78.4#



#57

1,3-Dichloropropane

Concen: 1.013 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX046472.D

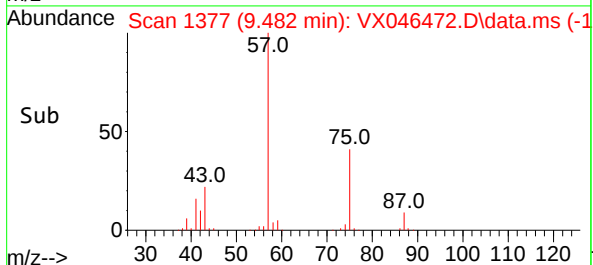
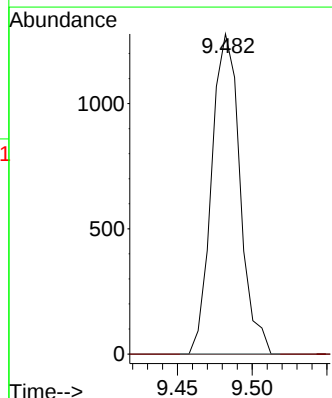
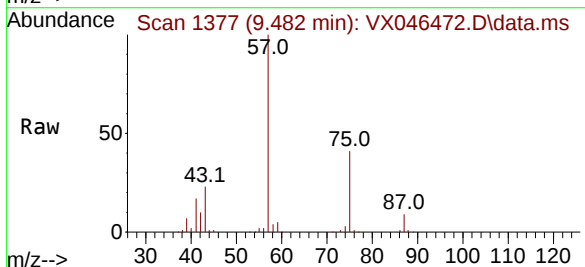
Acq: 03 Jun 2025 14:56

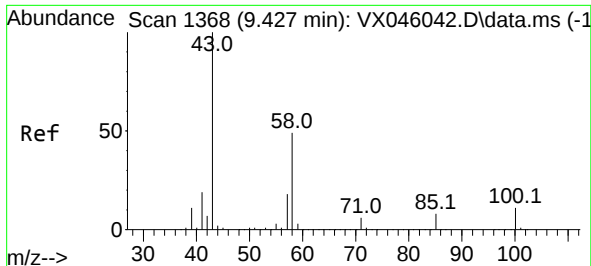
Tgt Ion: 76 Resp: 1684

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

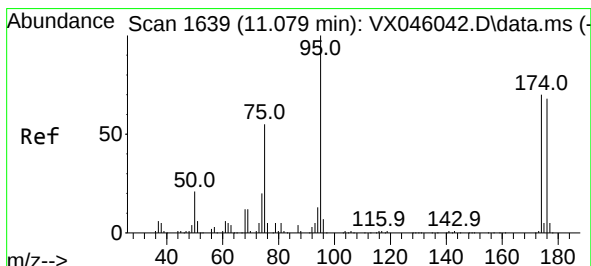
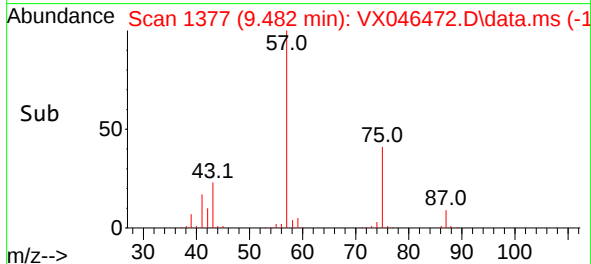
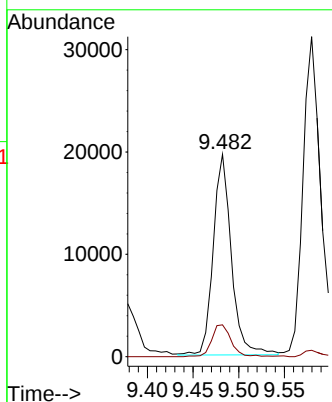
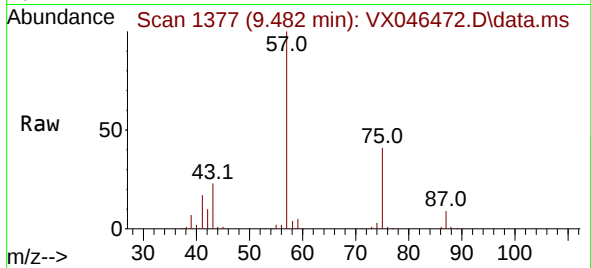




#59
2-Hexanone
Concen: 22.441 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.055 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

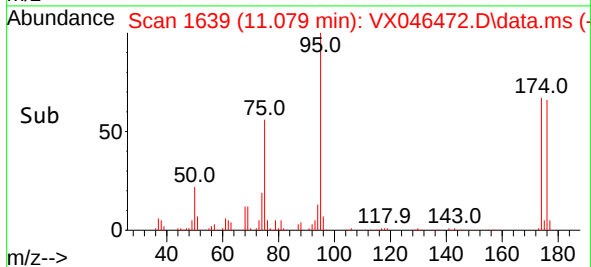
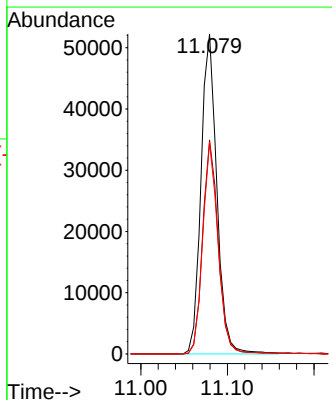
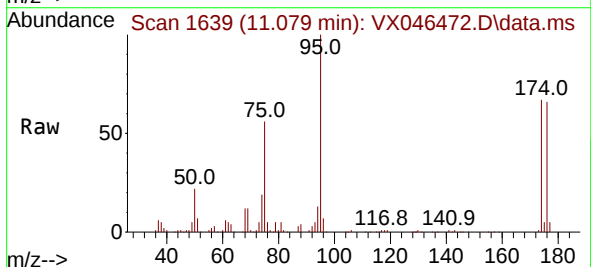
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

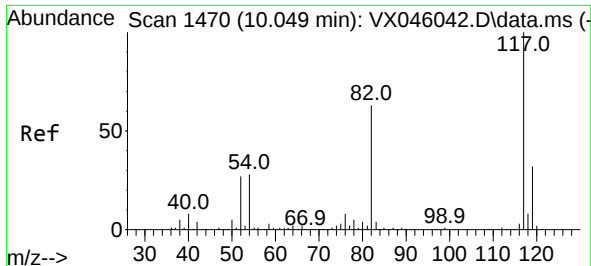
Tgt Ion: 43 Resp: 27150
Ion Ratio Lower Upper
43 100
58 17.0 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 51.408 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion: 95 Resp: 66394
Ion Ratio Lower Upper
95 100
174 65.5 0.0 135.8
176 64.2 0.0 131.4

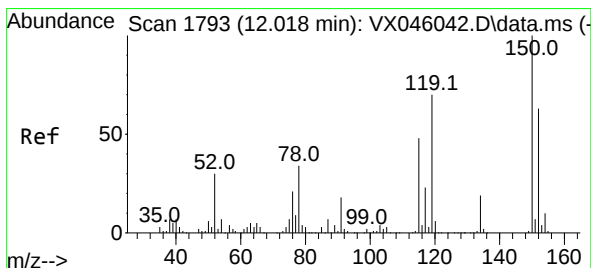
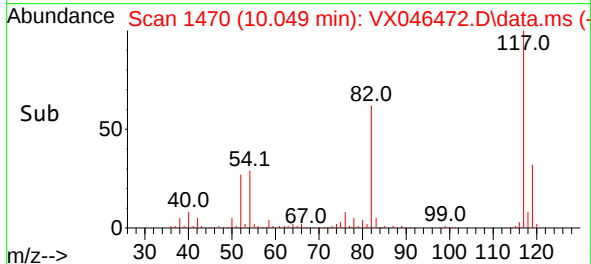
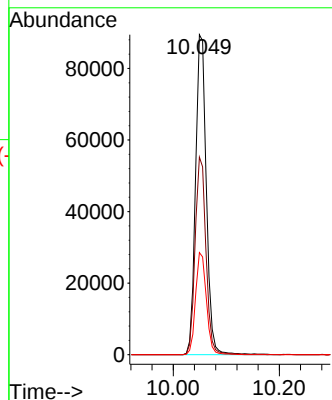
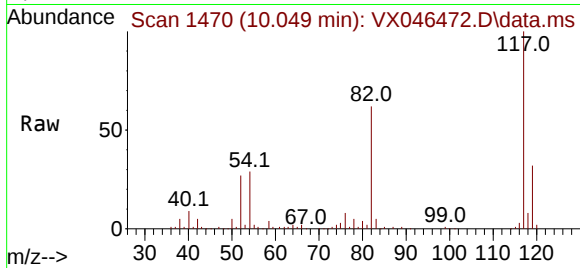




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

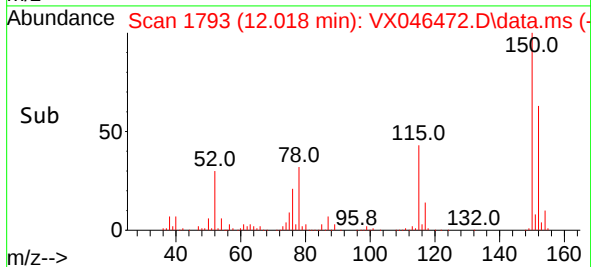
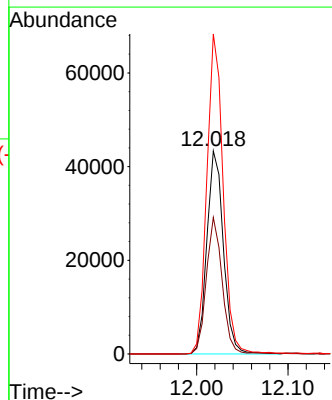
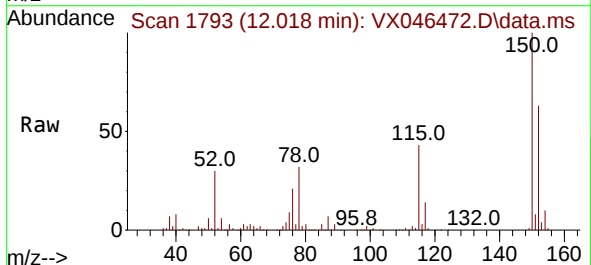
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

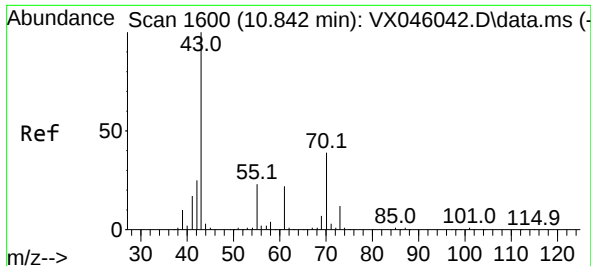
Tgt Ion:117 Resp: 126061
Ion Ratio Lower Upper
117 100
82 61.7 50.6 76.0
119 31.9 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion:152 Resp: 54309
Ion Ratio Lower Upper
152 100
115 64.7 46.9 140.7
150 155.1 0.0 351.0

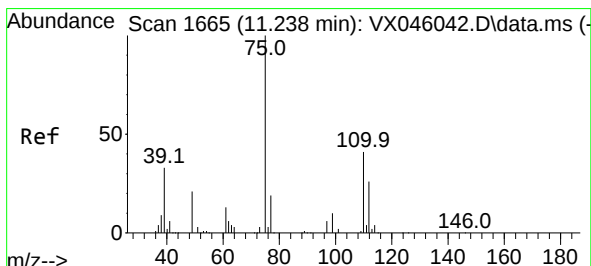
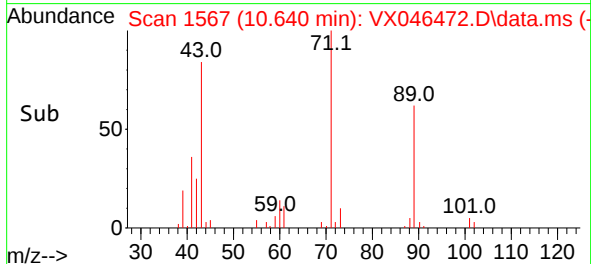
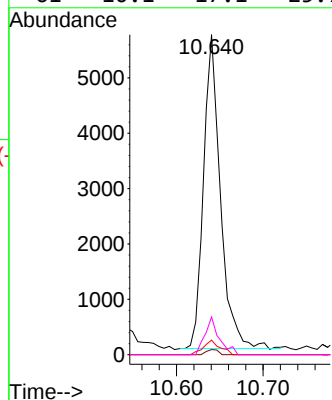
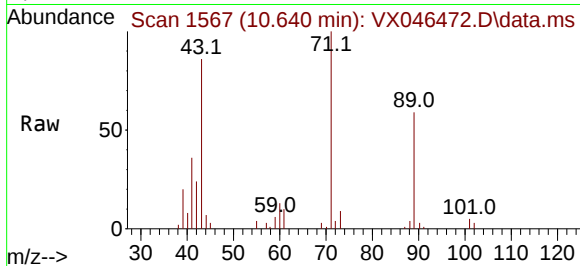




#74
N-amy1 acetate
Concen: 3.685 ug/l
RT: 10.640 min Scan# 1639
Delta R.T. -0.201 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

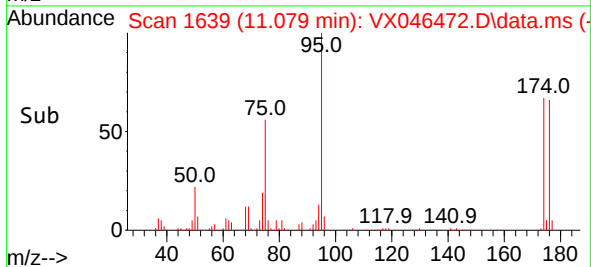
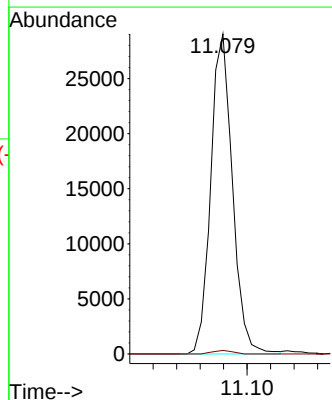
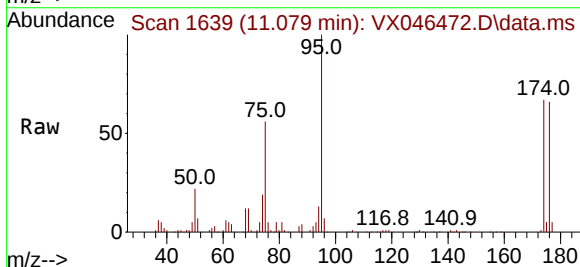
Instrument :
MSVOA_X
ClientSampleId :
TP05-MHO-WC

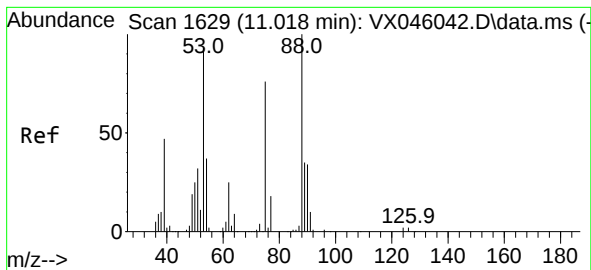
Tgt Ion:	43	Resp:	7699
Ion	Ratio	Lower	Upper
43	100		
70	1.1	30.9	46.3#
55	4.5	18.7	28.1#
61	10.1	17.1	25.7#



#76
1,2,3-Trichloropropane
Concen: 28.501 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX046472.D
Acq: 03 Jun 2025 14:56

Tgt Ion:	75	Resp:	37258
Ion	Ratio	Lower	Upper
75	100		
77	1.0	20.5	61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.791 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046472.D
 Acq: 03 Jun 2025 14:56

Instrument :
 MSVOA_X
 ClientSampleId :
 TP05-MHO-WC

Tgt Ion: 75 Resp: 37258
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.0 37.0 55.6#

