

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
 Data File : VX048272.D
 Acq On : 21 Oct 2025 16:04
 Operator : JC/MD
 Sample : Q3392-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-19

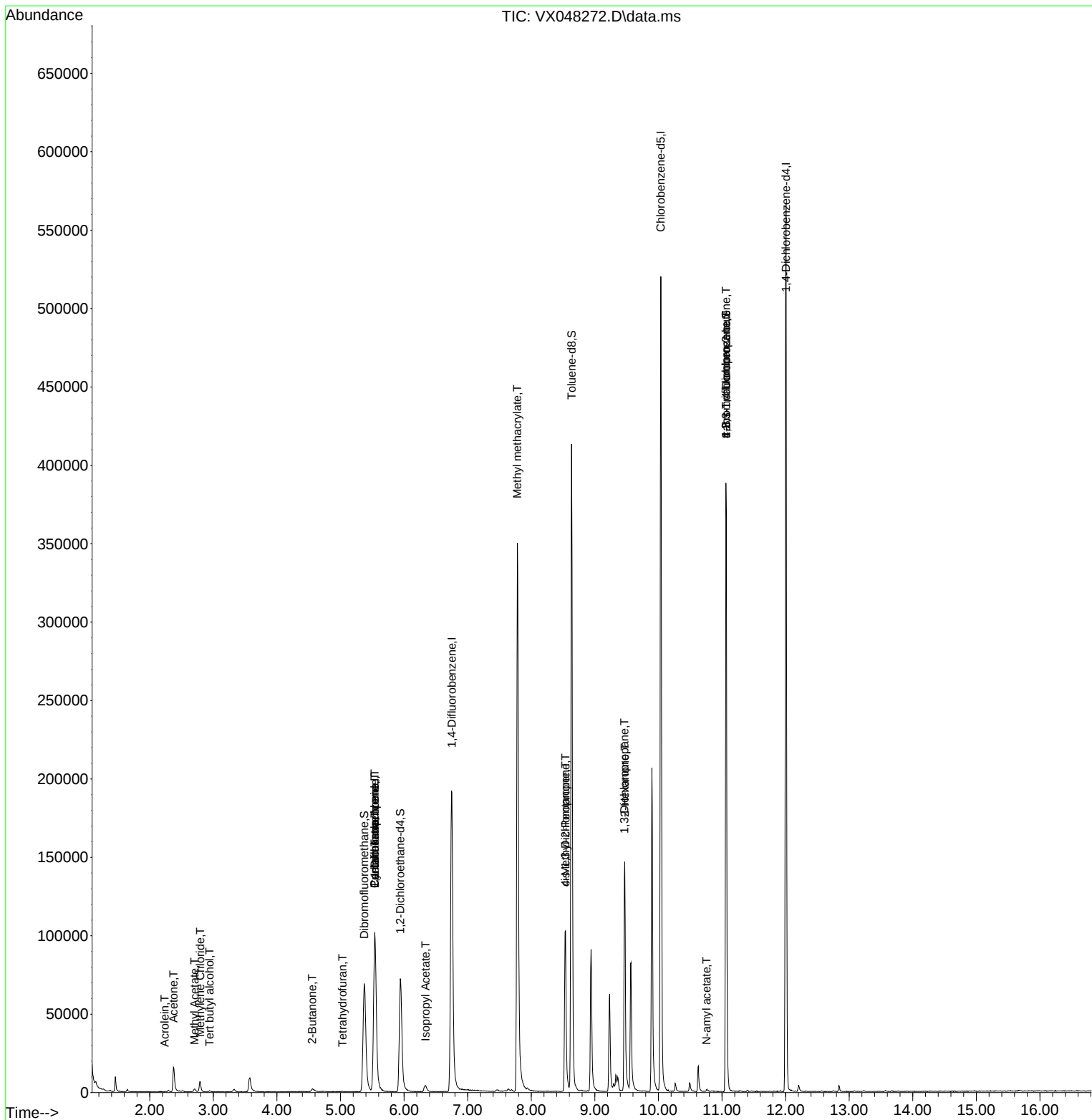
Quant Time: Oct 24 04:28:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

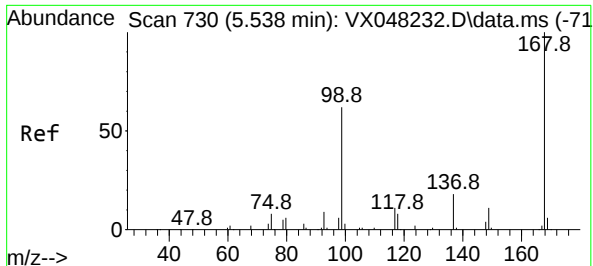
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	104161	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	215935	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	243754	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122293	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	82433	56.445	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	112.900%
35) Dibromofluoromethane	5.373	113	66998	45.448	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.900%
50) Toluene-d8	8.635	98	255253	49.399	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.800%
62) 4-Bromofluorobenzene	11.061	95	112149	57.052	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	114.100%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.941	59	368	2.538	ug/l #	72
13) Acrolein	2.233	56	180	1.217	ug/l #	81
16) Acetone	2.374	43	20209	40.337	ug/l	96
18) Methyl Acetate	2.703	43	2996	2.863	ug/l	93
20) Methylene Chloride	2.794	84	3169	2.596	ug/l #	82
25) 2-Butanone	4.556	43	3944	6.219	ug/l	91
29) Tetrahydrofuran	5.032	42	154	0.405	ug/l #	33
31) Cyclohexane	5.538	56	1867	1.030	ug/l #	17
36) 1,1-Dichloropropene	5.538	75	8054	3.844	ug/l #	46
38) Carbon Tetrachloride	5.538	117	10732	4.152	ug/l #	15
43) Isopropyl Acetate	6.336	43	6901	2.419	ug/l #	92
48) Methyl methacrylate	7.781	41	34875	24.227	ug/l #	45
51) 4-Methyl-2-Pentanone	8.537	43	41048	24.956	ug/l #	51
54) cis-1,3-Dichloropropene	8.537	75	19828	7.839	ug/l #	58
57) 1,3-Dichloropropane	9.464	76	1389	0.566	ug/l #	43
59) 2-Hexanone	9.470	43	19139	16.687	ug/l #	56
74) N-amyl acetate	10.756	43	1368	0.432	ug/l #	45
76) 1,2,3-Trichloropropane	11.061	75	57696	29.093	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	57696	70.780	ug/l #	10

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

Quant Time: Oct 24 04:28:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

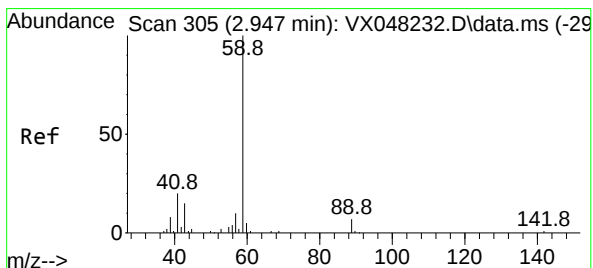
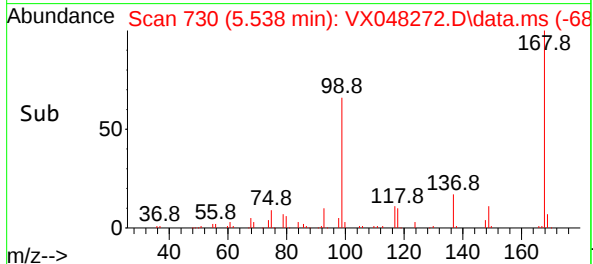
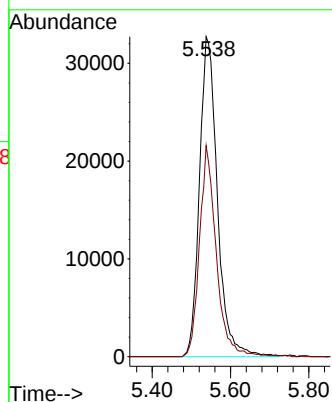
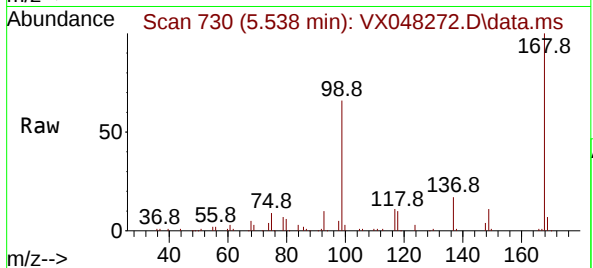




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

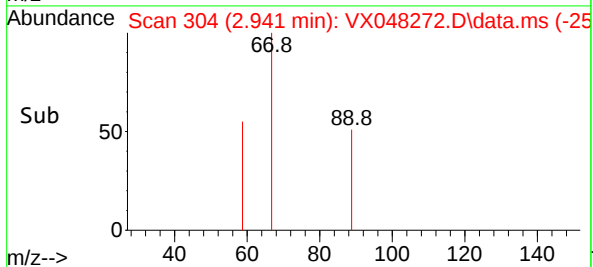
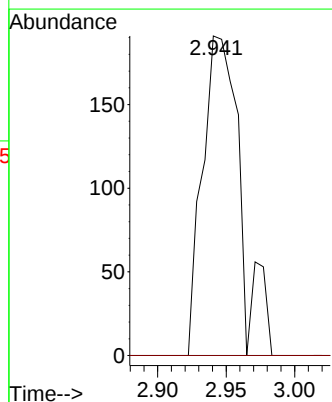
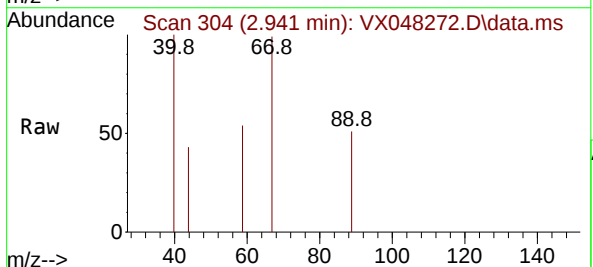
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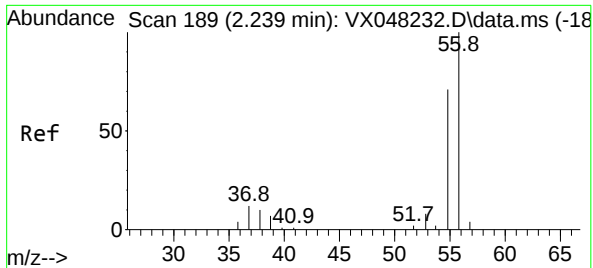
Tgt Ion:168 Resp: 104161
Ion Ratio Lower Upper
168 100
99 66.0 46.4 69.6



#11
Tert butyl alcohol
Concen: 2.538 ug/l
RT: 2.941 min Scan# 304
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 59 Resp: 368
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

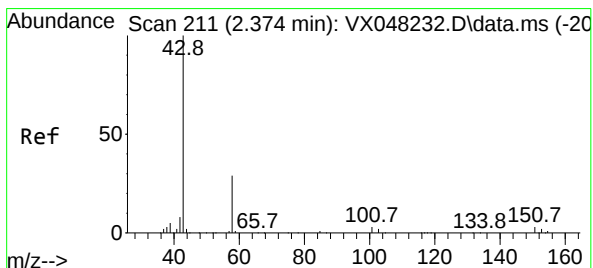
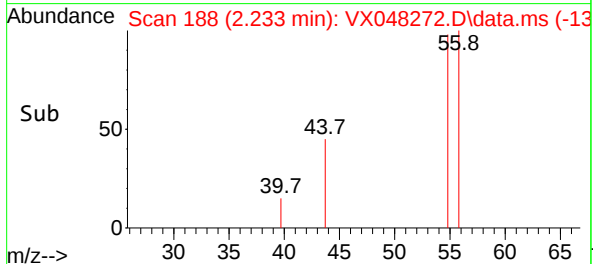
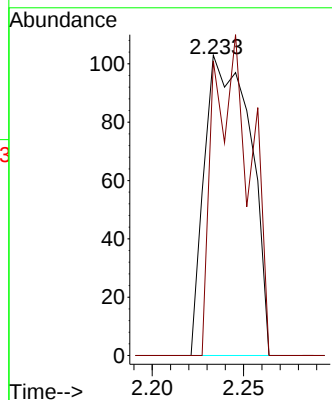
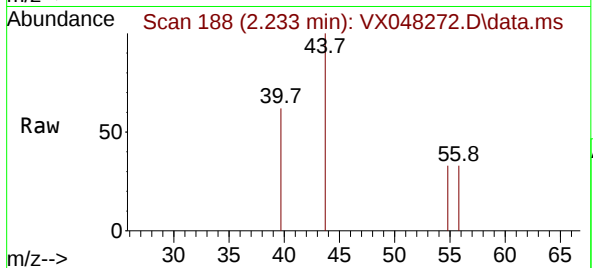




#13
Acrolein
Concen: 1.217 ug/l
RT: 2.233 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

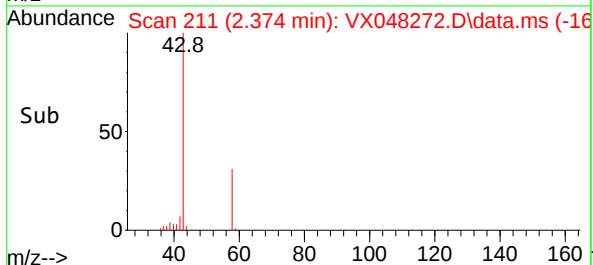
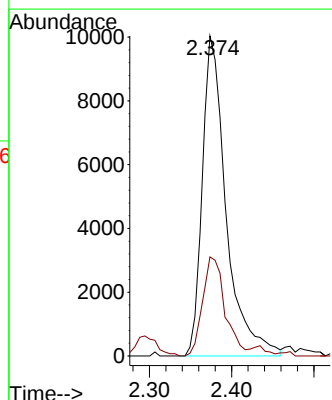
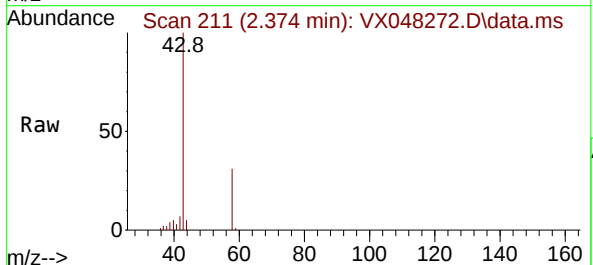
Instrument :
MSVOA_X
ClientSampleId :
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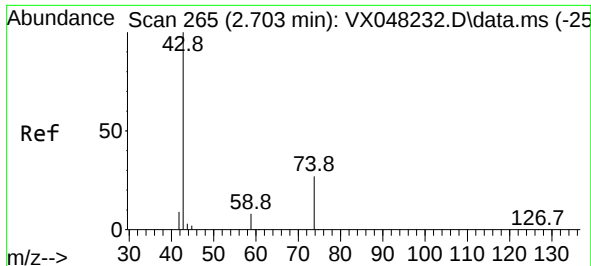
Tgt Ion: 56 Resp: 180
Ion Ratio Lower Upper
56 100
55 85.6 56.1 84.1#



#16
Acetone
Concen: 40.337 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 43 Resp: 20209
Ion Ratio Lower Upper
43 100
58 31.4 23.4 35.2

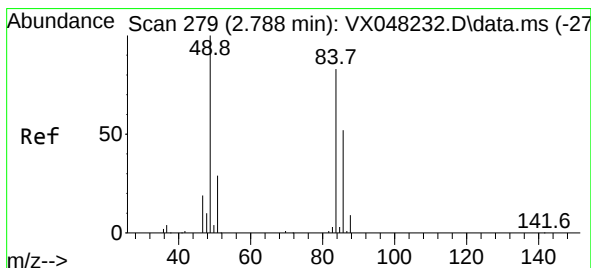
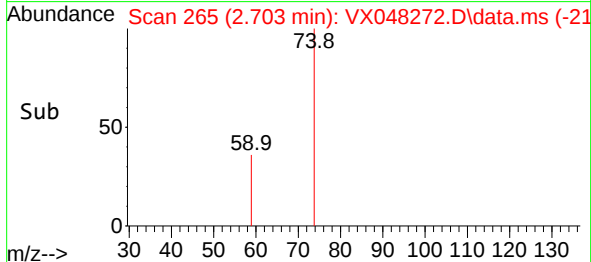
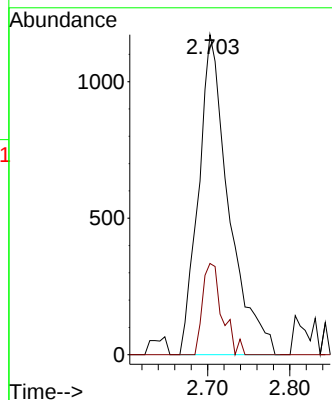
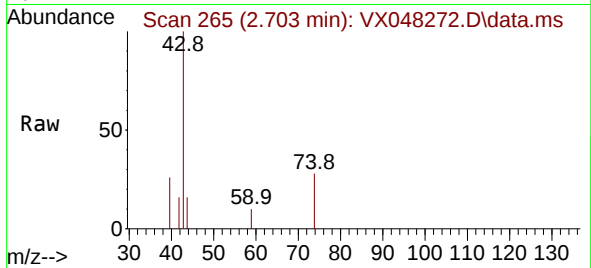




#18
Methyl Acetate
Concen: 2.863 ug/l
RT: 2.703 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

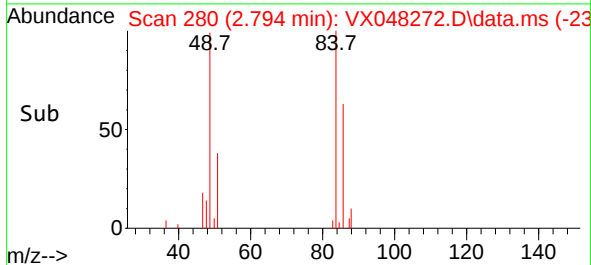
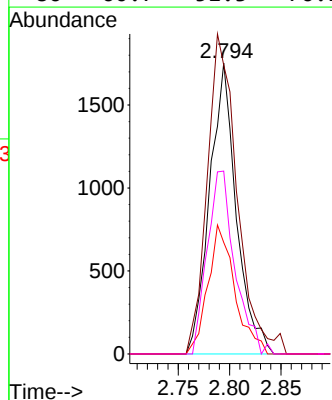
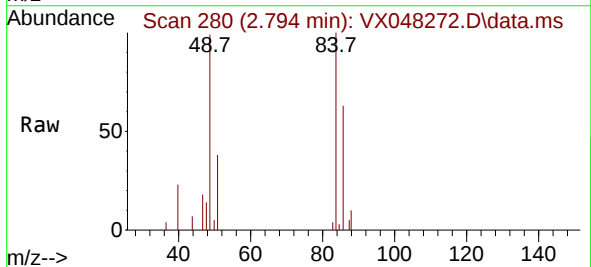
Instrument :
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ClientSampleId :
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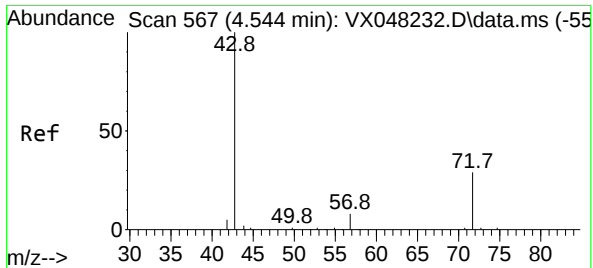
Tgt Ion: 43 Resp: 2996
Ion Ratio Lower Upper
43 100
74 18.4 17.5 26.3



#20
Methylene Chloride
Concen: 2.596 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 84 Resp: 3169
Ion Ratio Lower Upper
84 100
49 95.9 104.1 156.1#
51 37.0 31.3 46.9
86 60.7 51.3 76.9

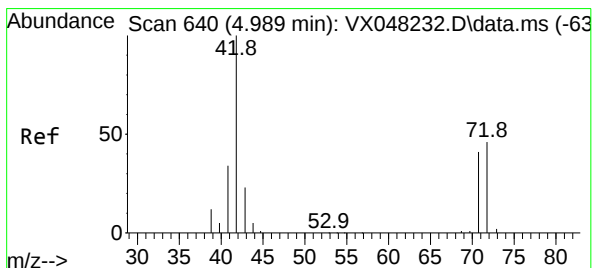
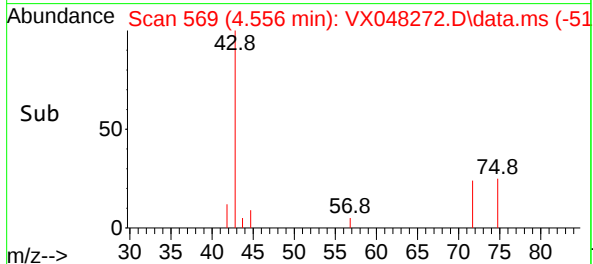
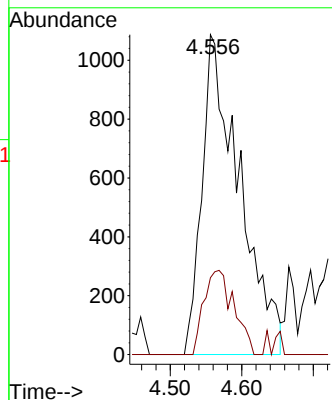
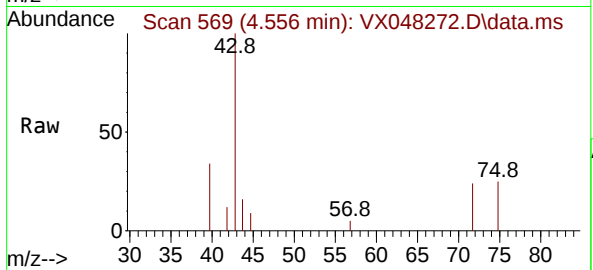




#25
2-Butanone
Concen: 6.219 ug/l
RT: 4.556 min Scan# 567
Delta R.T. 0.018 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

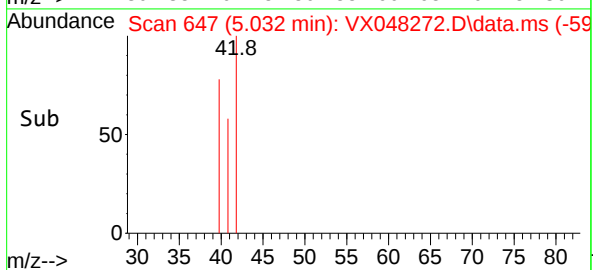
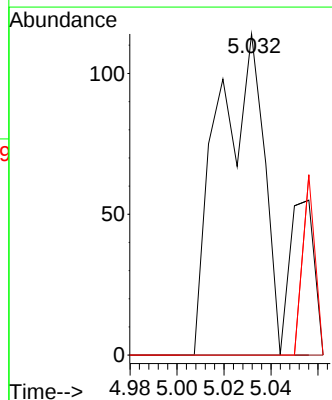
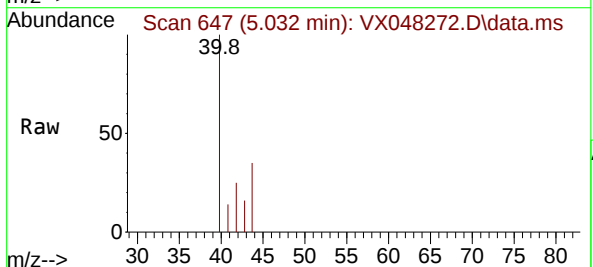
Instrument :
MSVOA_X
ClientSampleId :
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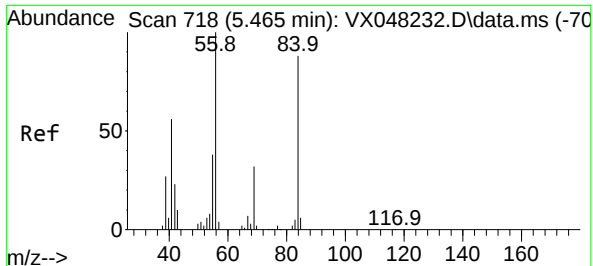
Tgt Ion: 43 Resp: 3944
Ion Ratio Lower Upper
43 100
72 20.6 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.405 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.043 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 42 Resp: 154
Ion Ratio Lower Upper
42 100
72 0.0 35.3 52.9#
71 0.0 32.2 48.4#

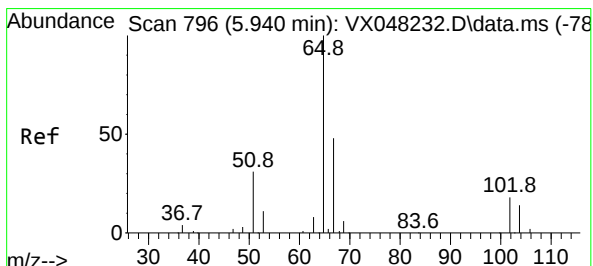
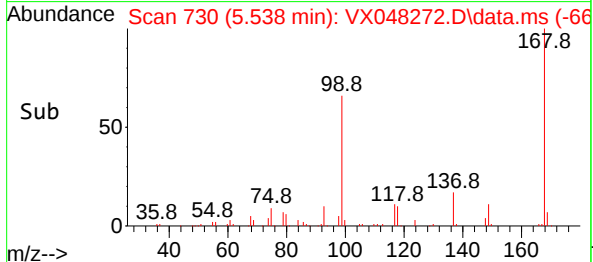
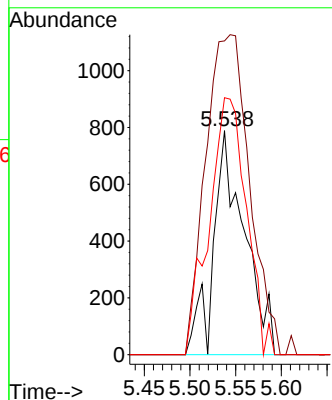
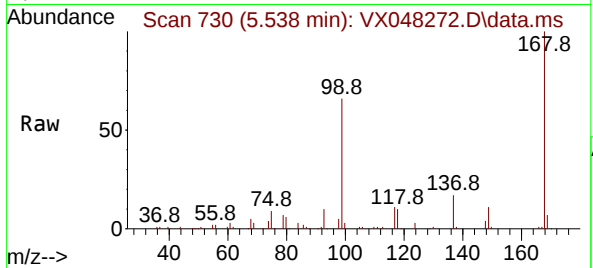




#31
Cyclohexane
Concen: 1.030 ug/l
RT: 5.538 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

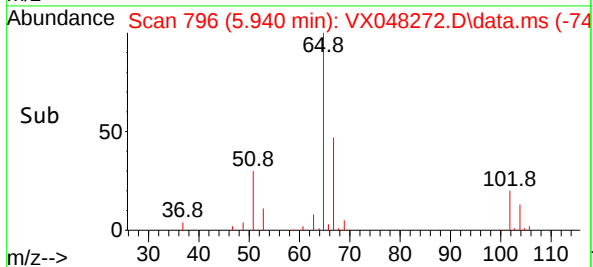
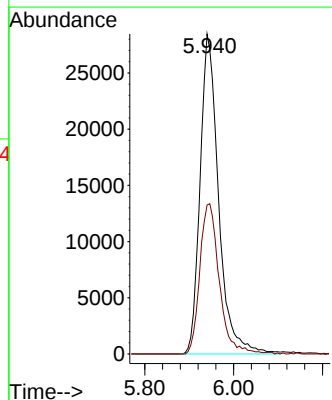
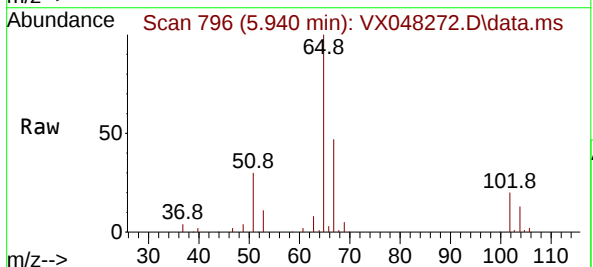
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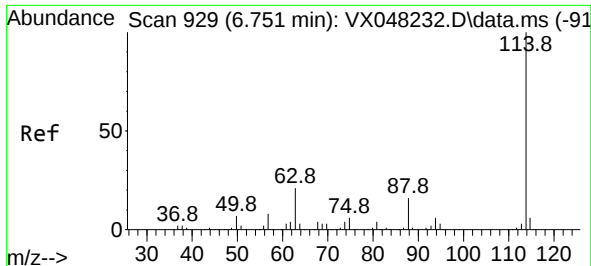
Tgt Ion: 56 Resp: 1867
Ion Ratio Lower Upper
56 100
69 140.1 23.0 34.6#
84 114.7 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 56.445 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 65 Resp: 82433
Ion Ratio Lower Upper
65 100
67 49.2 0.0 105.0

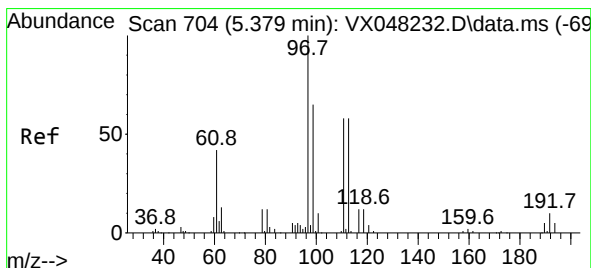
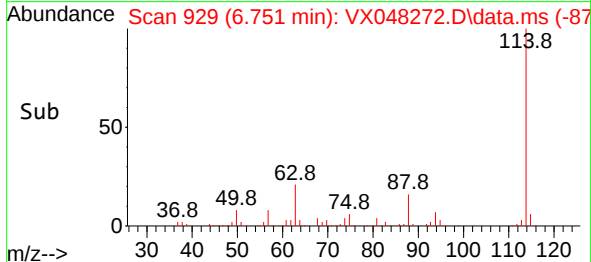
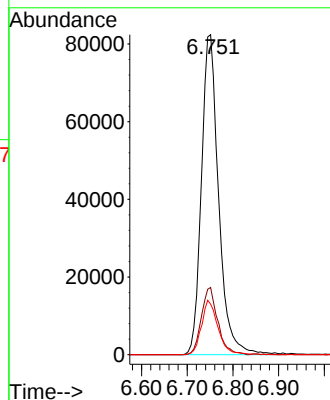
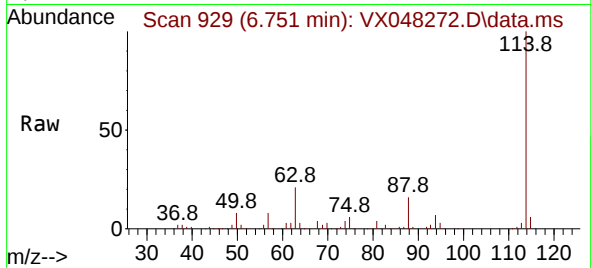




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

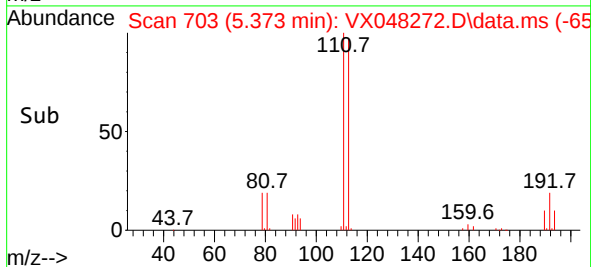
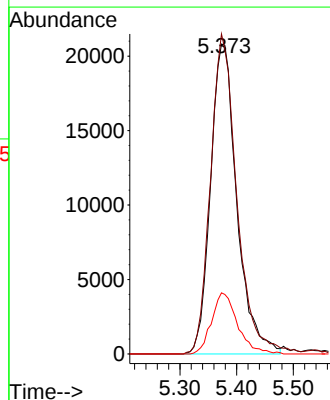
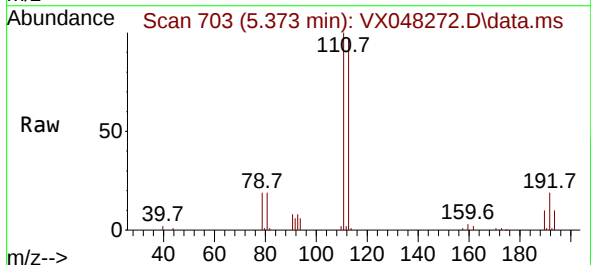
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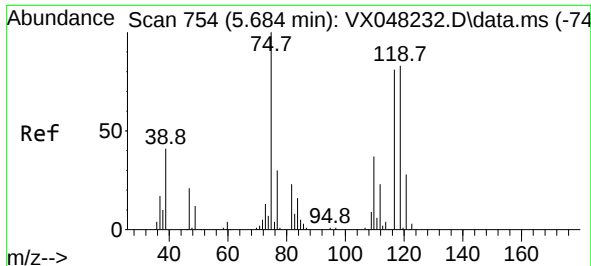
Tgt Ion:114 Resp: 215935
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.2
88 15.8 0.0 33.6



#35
Dibromofluoromethane
Concen: 45.448 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion:113 Resp: 66998
Ion Ratio Lower Upper
113 100
111 103.8 82.2 123.4
192 19.5 15.1 22.7





#36

1,1-Dichloropropene

Concen: 3.844 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX048272.D

Acq: 21 Oct 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

MH-19

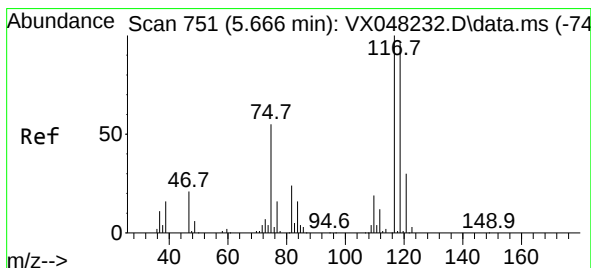
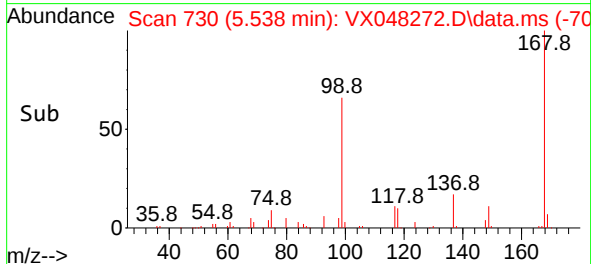
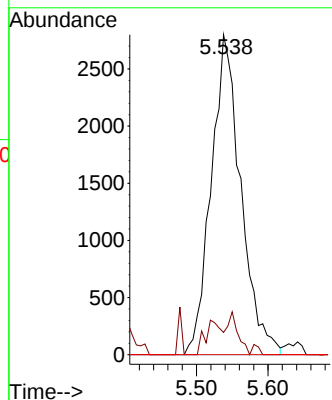
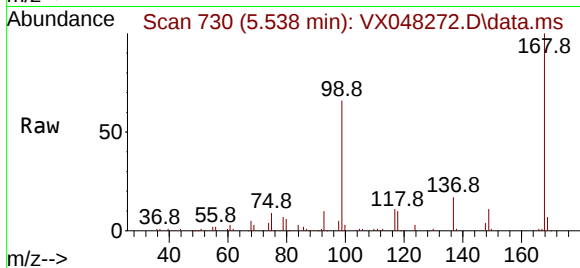
Tgt Ion: 75 Resp: 8054

Ion Ratio Lower Upper

75 100

110 4.7 17.7 53.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 4.152 ug/l

RT: 5.538 min Scan# 730

Delta R.T. -0.128 min

Lab File: VX048272.D

Acq: 21 Oct 2025 16:04

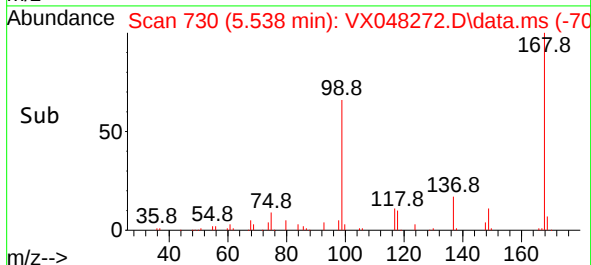
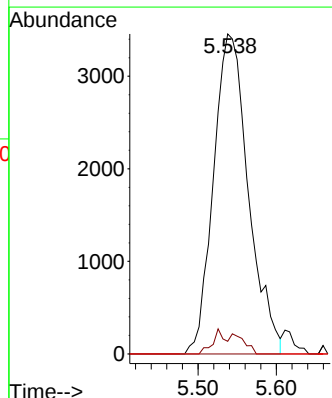
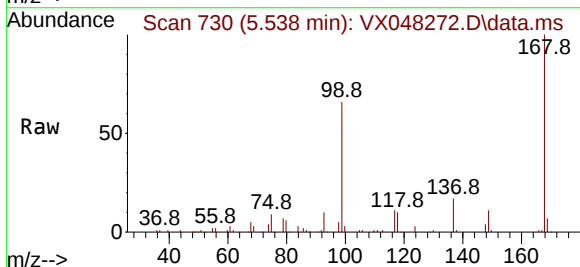
Tgt Ion: 117 Resp: 10732

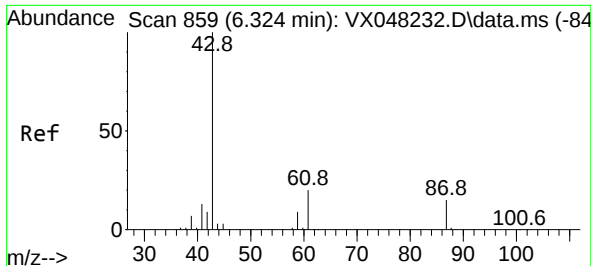
Ion Ratio Lower Upper

117 100

119 3.9 77.2 115.8#

121 0.0 24.8 37.2#

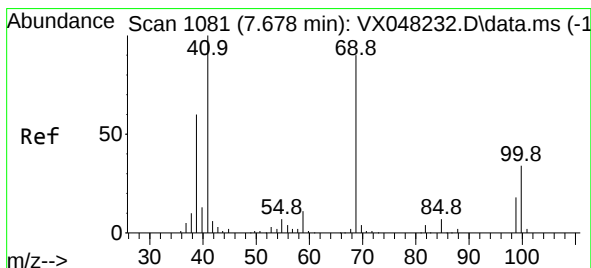
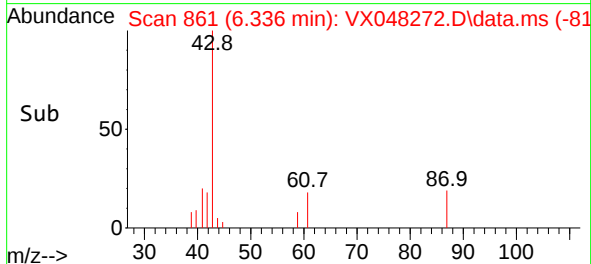
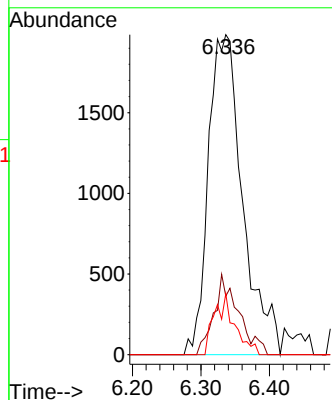
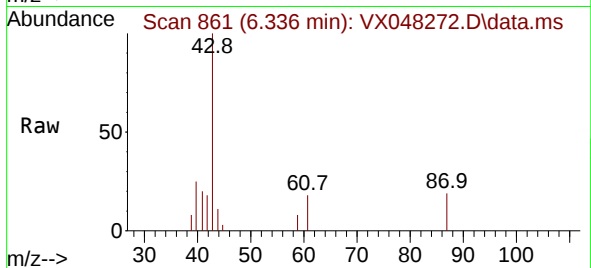




#43
Isopropyl Acetate
Concen: 2.419 ug/l
RT: 6.336 min Scan# 80
Delta R.T. 0.012 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

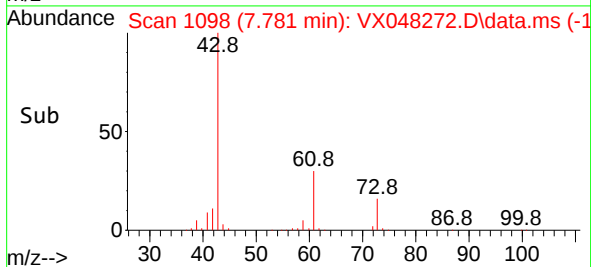
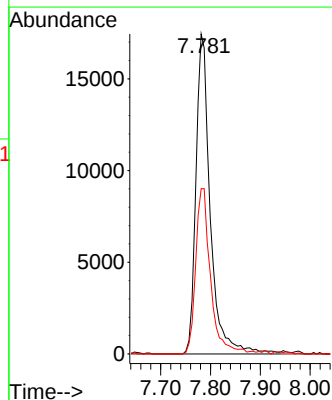
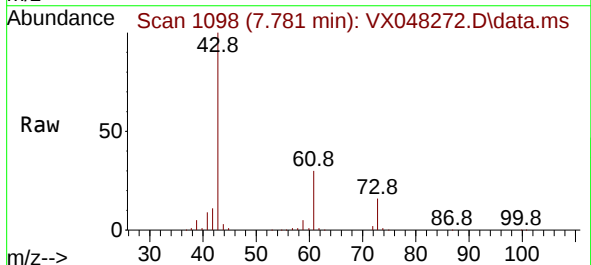
Instrument :
MSVOA_X
ClientSampleId :
MH-19

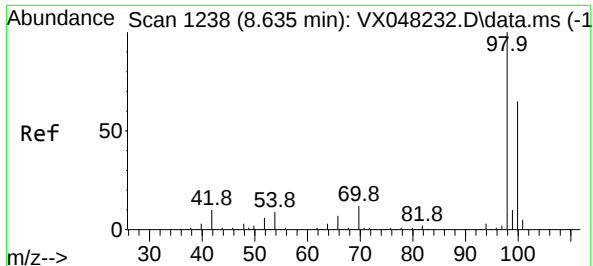
Tgt Ion: 43 Resp: 6901
Ion Ratio Lower Upper
43 100
61 18.1 14.9 22.3
87 5.0 9.4 14.2#



#48
Methyl methacrylate
Concen: 24.227 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 41 Resp: 34875
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 53.4 47.1 70.7

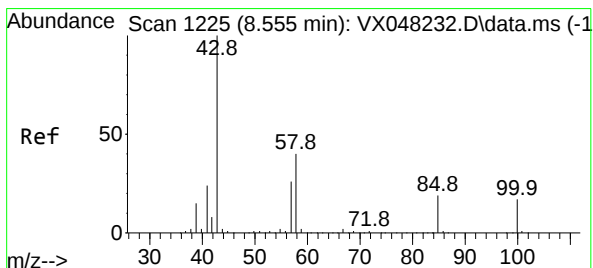
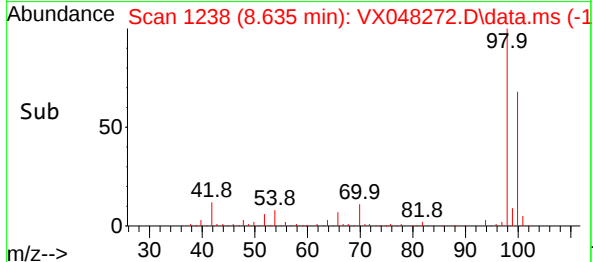
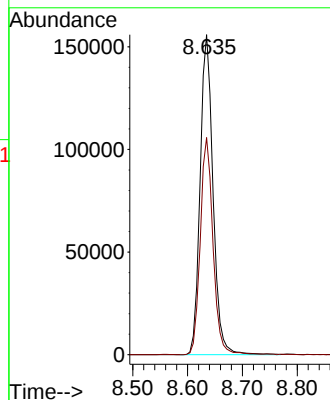
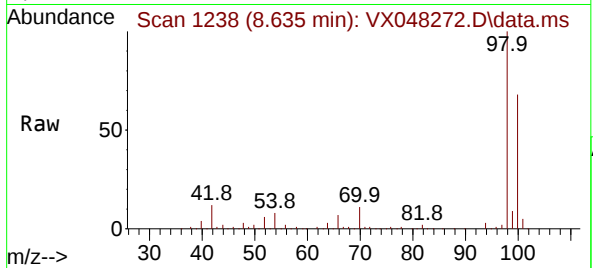




#50
Toluene-d8
Concen: 49.399 ug/l
RT: 8.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

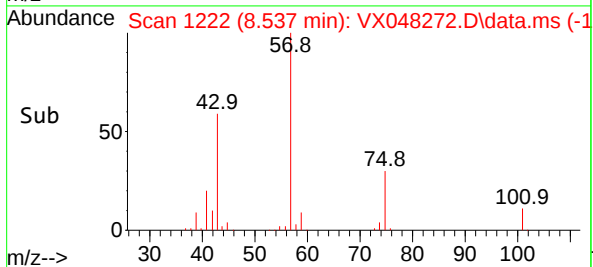
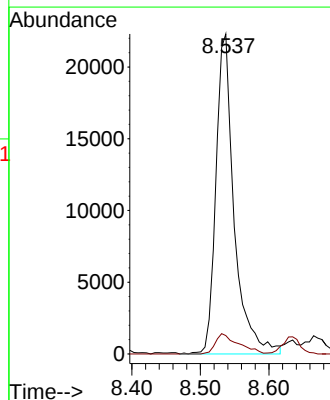
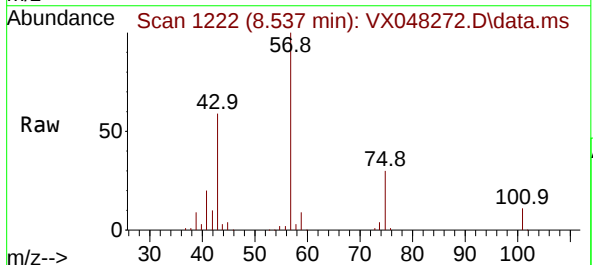
Instrument :
MSVOA_X
ClientSampleId :
MH-19

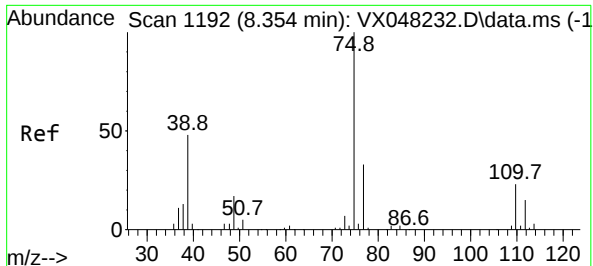
Tgt Ion: 98 Resp: 255253
Ion Ratio Lower Upper
98 100
100 67.1 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 24.956 ug/l
RT: 8.537 min Scan# 1222
Delta R.T. -0.018 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 43 Resp: 41048
Ion Ratio Lower Upper
43 100
58 8.0 29.5 44.3#





#54

cis-1,3-Dichloropropene

Concen: 7.839 ug/l

RT: 8.537 min Scan# 1192

Delta R.T. 0.189 min

Lab File: VX048272.D

Acq: 21 Oct 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

MH-19

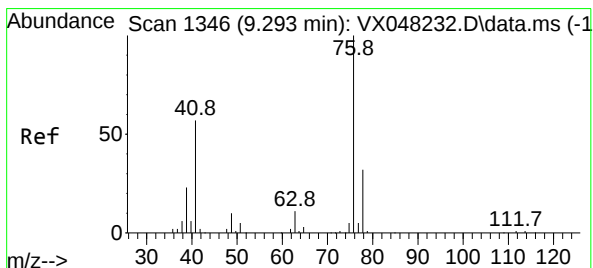
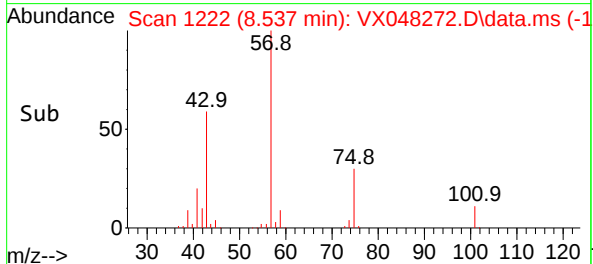
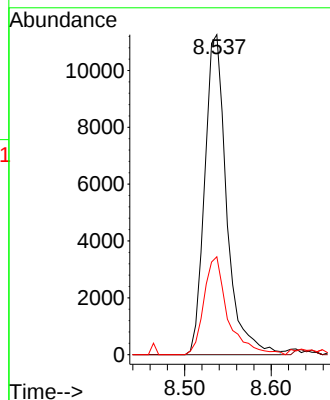
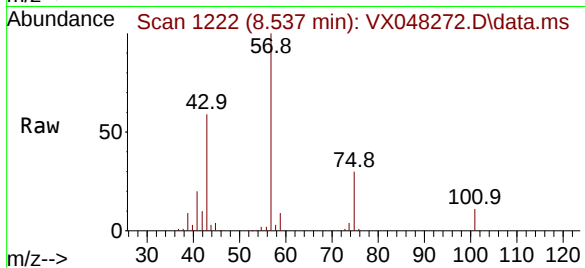
Tgt Ion: 75 Resp: 19828

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#

39 29.8 42.6 64.0#



#57

1,3-Dichloropropane

Concen: 0.566 ug/l

RT: 9.464 min Scan# 1374

Delta R.T. 0.171 min

Lab File: VX048272.D

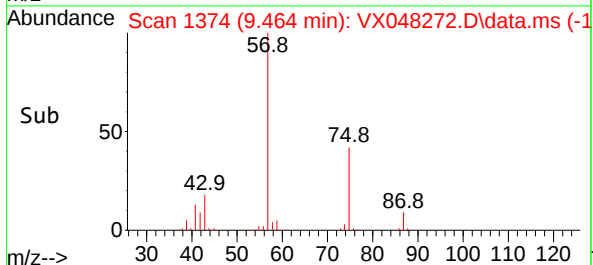
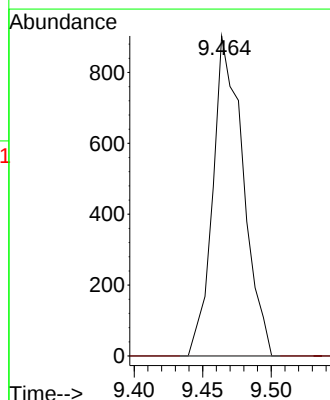
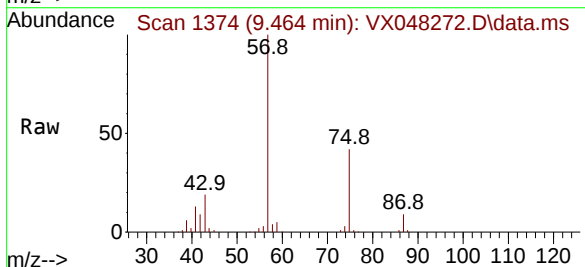
Acq: 21 Oct 2025 16:04

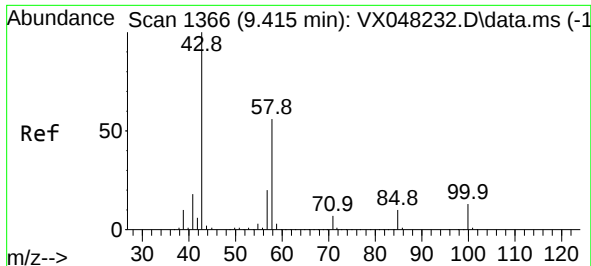
Tgt Ion: 76 Resp: 1389

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#

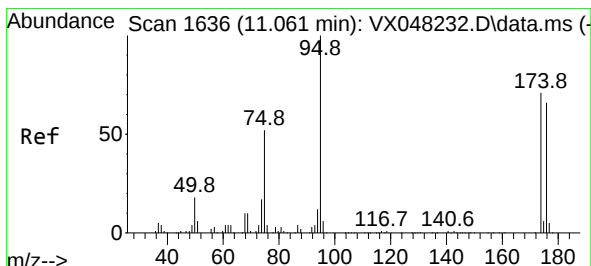
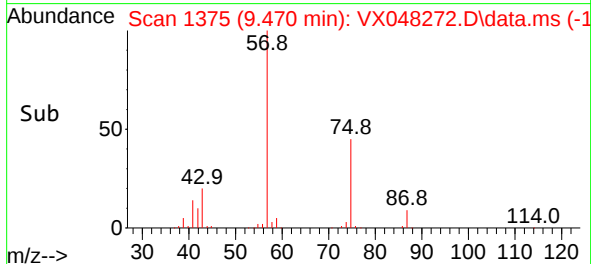
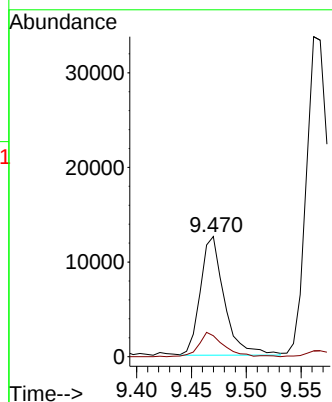
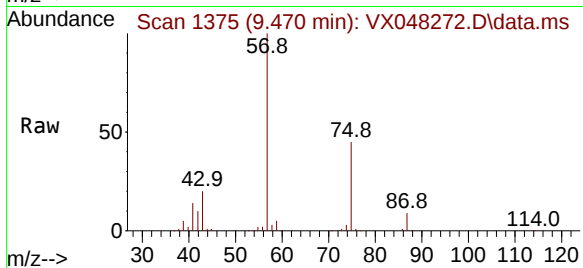




#59
2-Hexanone
Concen: 16.687 ug/l
RT: 9.470 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

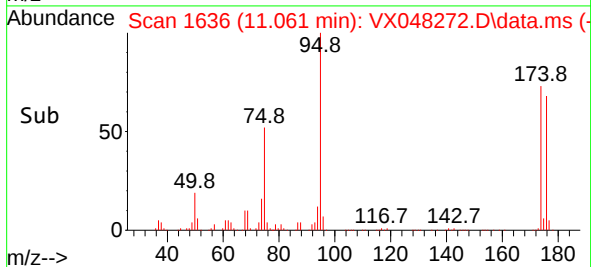
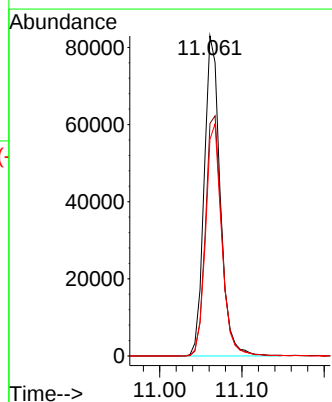
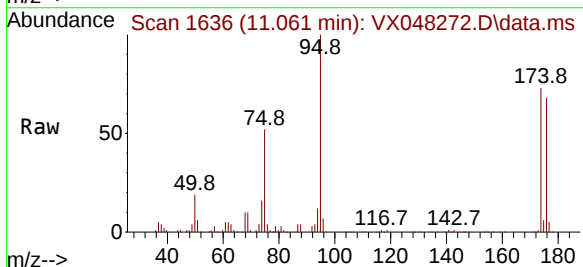
Instrument :
MSVOA_X
ClientSampleId :
MH-19

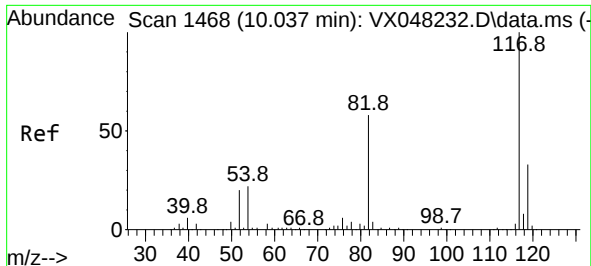
Tgt Ion: 43 Resp: 19139
Ion Ratio Lower Upper
43 100
58 21.2 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 57.052 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 95 Resp: 112149
Ion Ratio Lower Upper
95 100
174 77.1 0.0 147.8
176 73.1 0.0 142.8

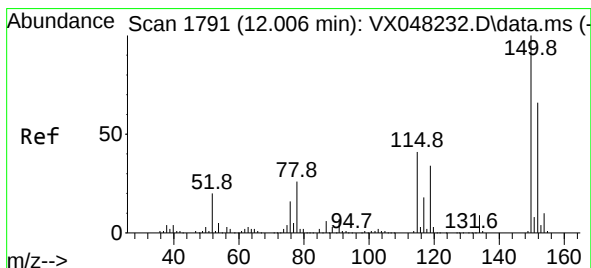
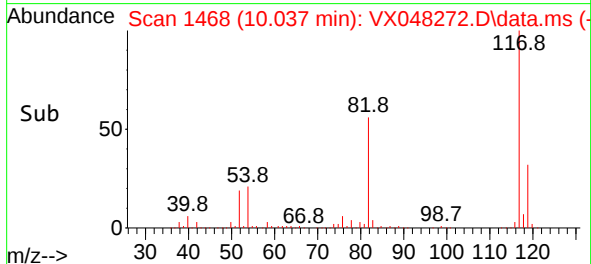
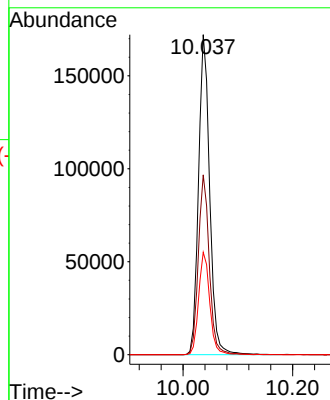
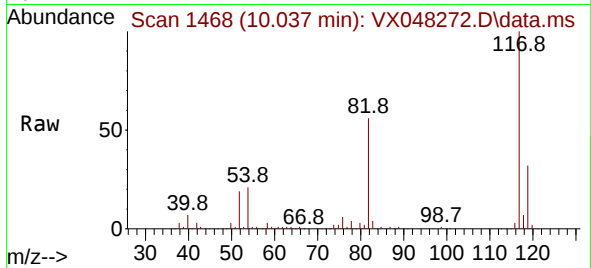




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

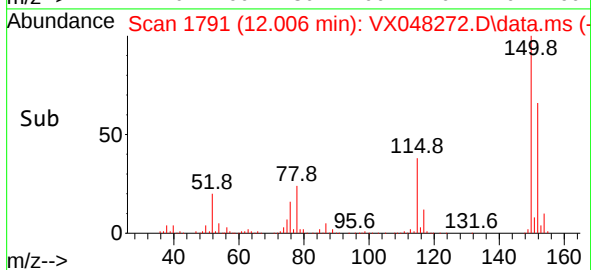
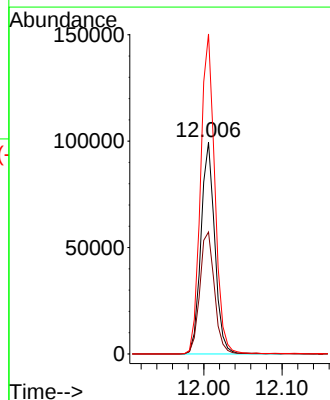
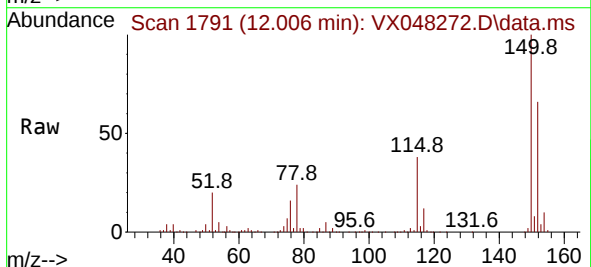
Instrument :
MSVOA_X
ClientSampleId :
MH-19

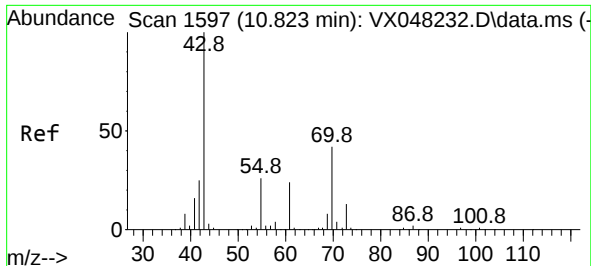
Tgt Ion:117 Resp: 243754
Ion Ratio Lower Upper
117 100
82 56.2 46.5 69.7
119 32.0 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion:152 Resp: 122293
Ion Ratio Lower Upper
152 100
115 61.0 43.1 129.4
150 155.6 0.0 353.0

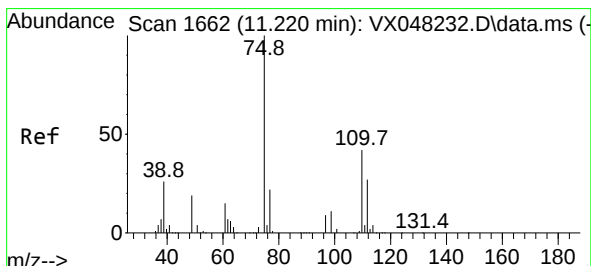
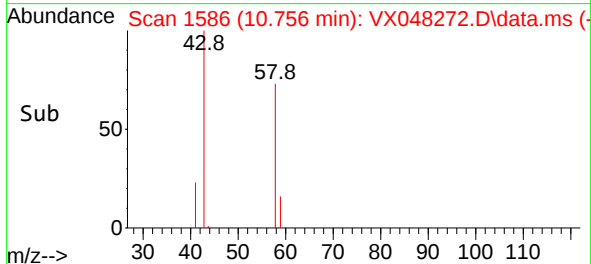
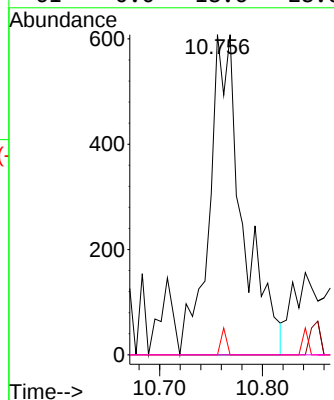
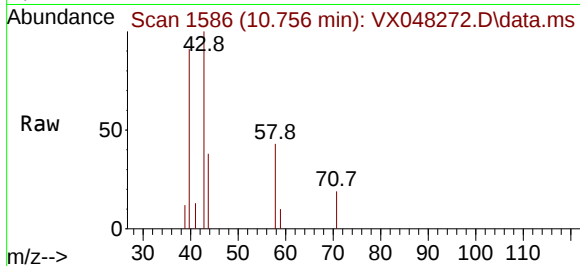




#74
N-amy1 acetate
Concen: 0.432 ug/l
RT: 10.756 min Scan# 1
Delta R.T. -0.067 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

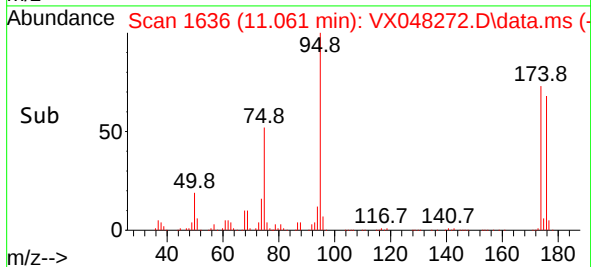
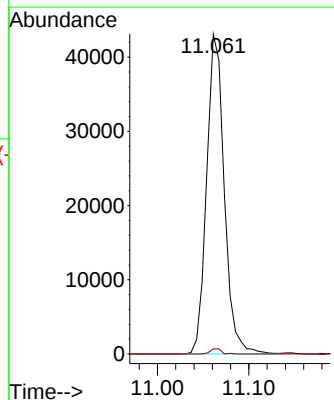
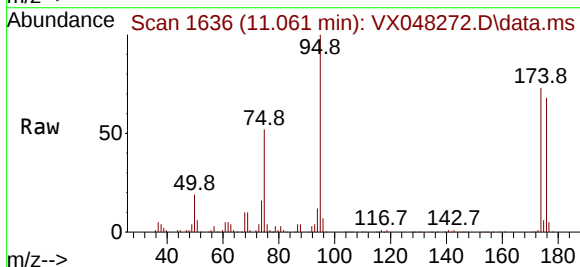
Instrument :
MSVOA_X
ClientSampleId :
MH-19

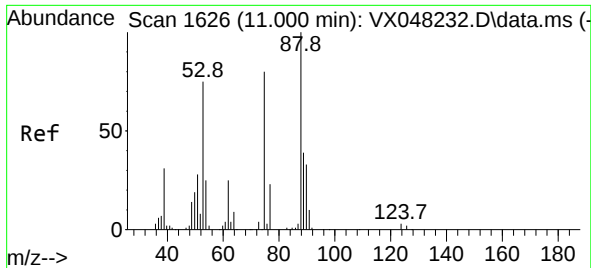
Tgt Ion: 43	Resp:	1368	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	1.4	19.1	28.7#
61	0.0	18.6	28.0#



#76
1,2,3-Trichloropropane
Concen: 29.093 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.158 min
Lab File: VX048272.D
Acq: 21 Oct 2025 16:04

Tgt Ion: 75	Resp:	57696	
Ion Ratio	Lower	Upper	
75 100			
77 1.0	22.4	67.2#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.780 ug/l
 RT: 11.061 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX048272.D
 Acq: 21 Oct 2025 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-19

Tgt Ion: 75 Resp: 57696
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.5 119.3#
 89 0.0 36.8 55.2#

