

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
 Data File : VX048271.D
 Acq On : 21 Oct 2025 15:44
 Operator : JC/MD
 Sample : Q3392-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-20

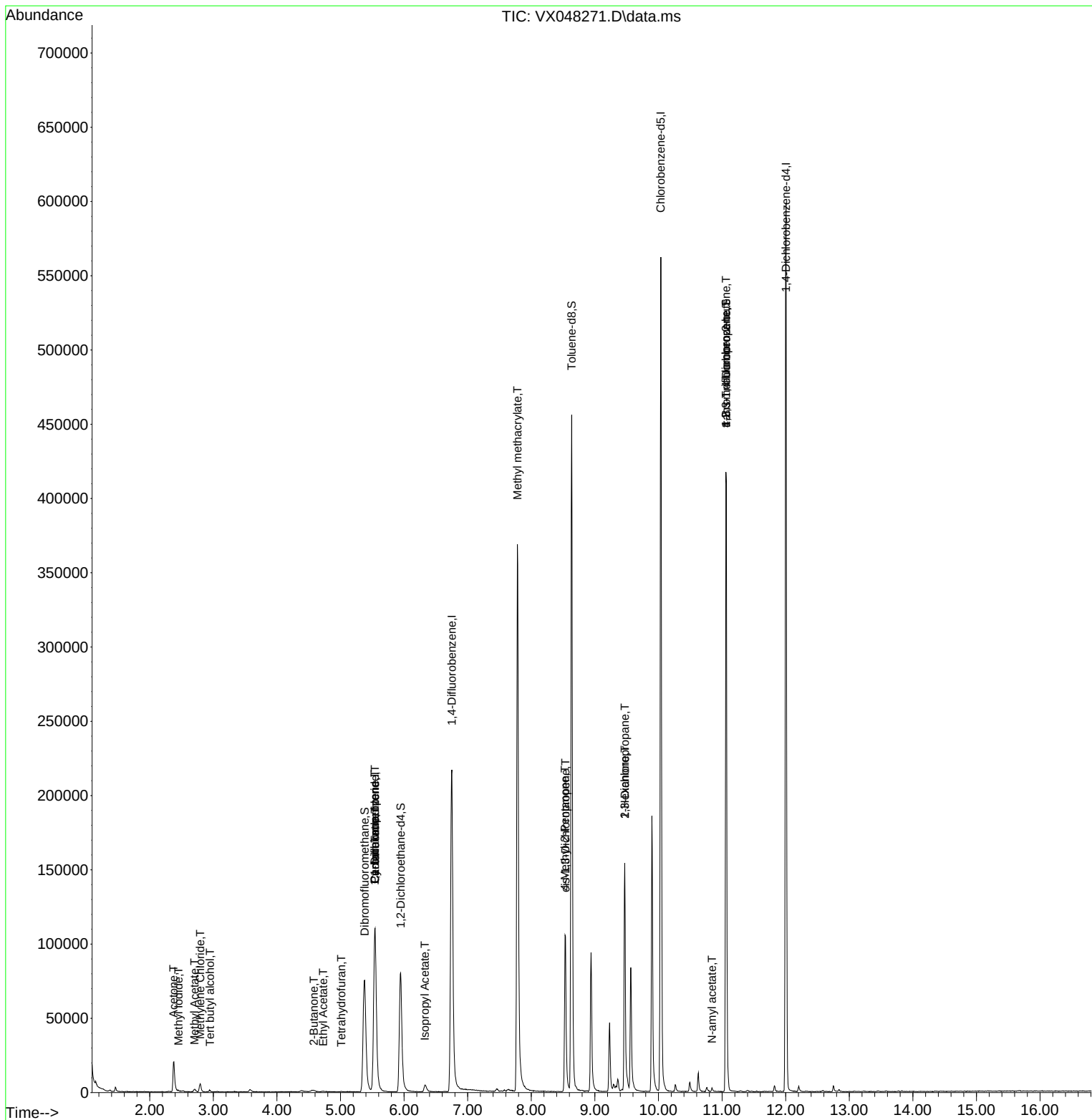
Quant Time: Oct 24 04:27:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

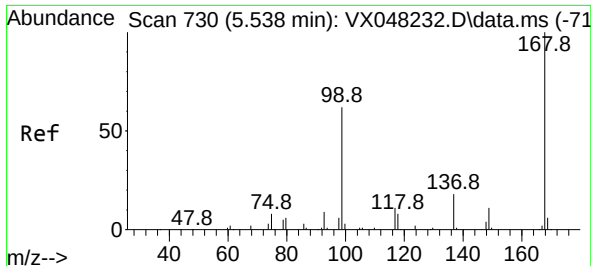
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	114140	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	243985	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	259738	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	130335	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	89456	55.899	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	111.800%
35) Dibromofluoromethane	5.379	113	76308	45.812	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.620%
50) Toluene-d8	8.635	98	280684	48.076	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.160%
62) 4-Bromofluorobenzene	11.061	95	121948	54.905	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.800%
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.453	142	330	0.213	ug/l #	71
11) Tert butyl alcohol	2.947	59	393	2.473	ug/l #	72
16) Acetone	2.373	43	26517	48.300	ug/l	97
18) Methyl Acetate	2.703	43	2855	2.490	ug/l #	69
20) Methylene Chloride	2.794	84	2941	2.199	ug/l	87
25) 2-Butanone	4.580	43	2117	3.047	ug/l	91
29) Tetrahydrofuran	5.013	42	193	0.464	ug/l #	33
31) Cyclohexane	5.544	56	2151	1.083	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	8797	3.716	ug/l #	50
37) Ethyl Acetate	4.727	43	887	0.452	ug/l #	70
38) Carbon Tetrachloride	5.544	117	11531	3.948	ug/l #	15
43) Isopropyl Acetate	6.324	43	7347	2.279	ug/l	98
48) Methyl methacrylate	7.781	41	36098	22.193	ug/l #	45
51) 4-Methyl-2-Pentanone	8.531	43	40850	21.980	ug/l #	50
54) cis-1,3-Dichloropropene	8.537	75	19738	6.906	ug/l #	55
57) 1,3-Dichloropropane	9.470	76	1473	0.531	ug/l #	43
59) 2-Hexanone	9.470	43	19331	14.917	ug/l #	56
74) N-amyl acetate	10.841	43	906	0.268	ug/l #	76
76) 1,2,3-Trichloropropane	11.061	75	61289	28.998	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	61289	70.549	ug/l #	10

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

Quant Time: Oct 24 04:27:43 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

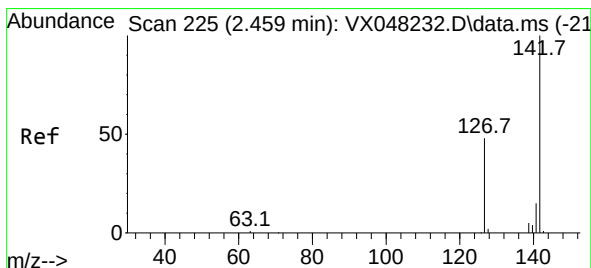
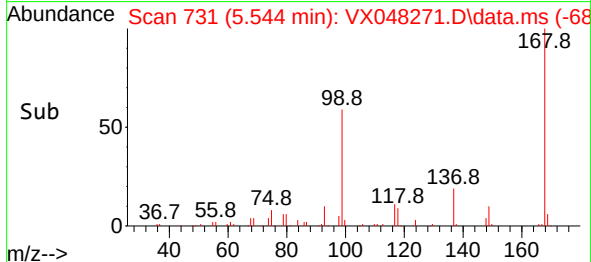
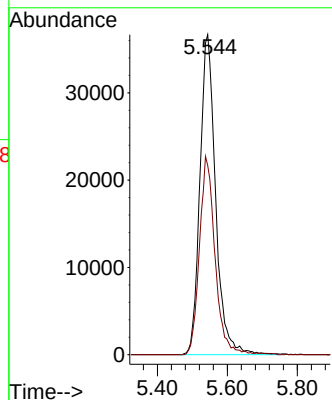
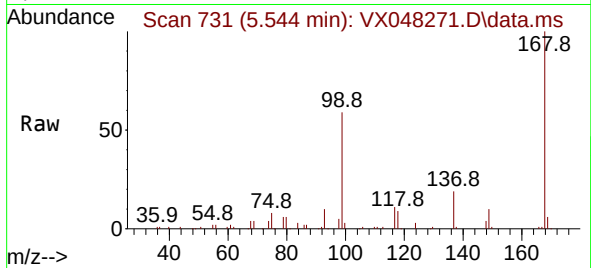




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

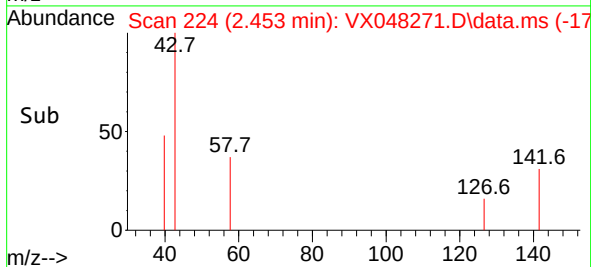
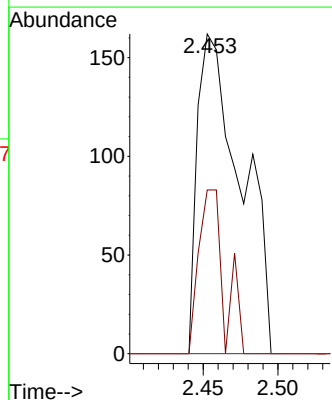
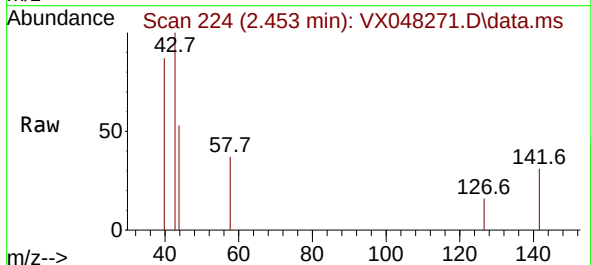
Instrument :
MSVOA_X
ClientSampleId :
MH-20

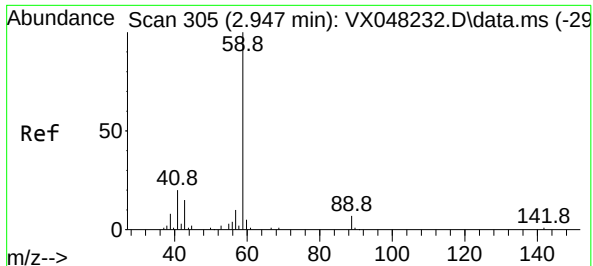
Tgt Ion:168 Resp: 114140
Ion Ratio Lower Upper
168 100
99 59.1 46.4 69.6



#10
Methyl Iodide
Concen: 0.213 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion:142 Resp: 330
Ion Ratio Lower Upper
142 100
127 29.7 38.5 57.7#
141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 2.473 ug/l

RT: 2.947 min Scan# 305

Delta R.T. 0.006 min

Lab File: VX048271.D

Acq: 21 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

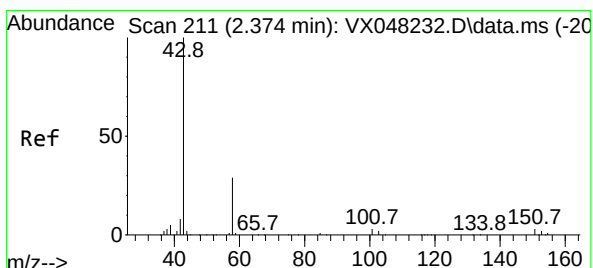
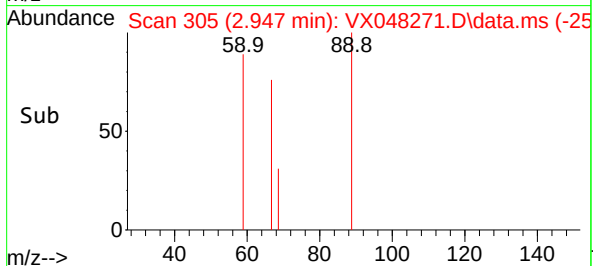
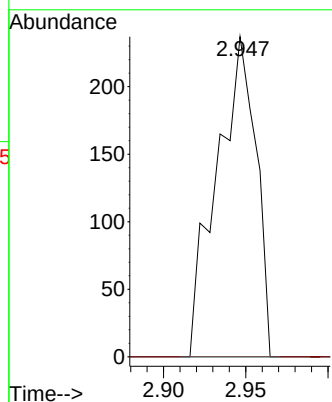
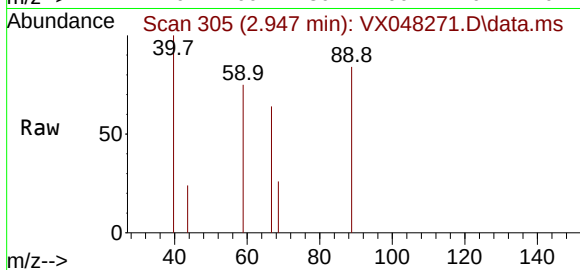
MH-20

Tgt Ion: 59 Resp: 393

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 48.300 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048271.D

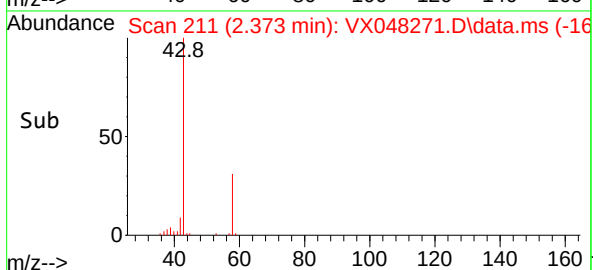
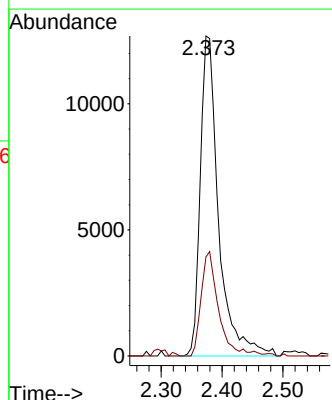
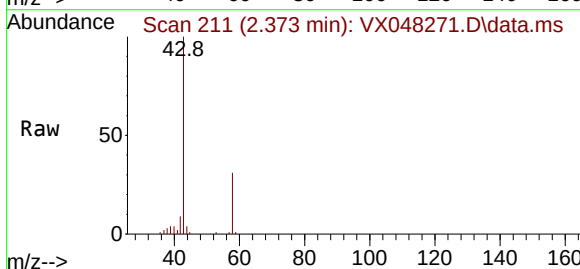
Acq: 21 Oct 2025 15:44

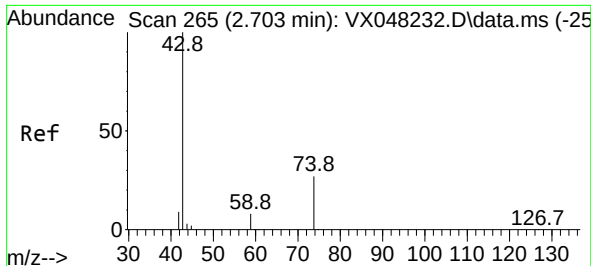
Tgt Ion: 43 Resp: 26517

Ion Ratio Lower Upper

43 100

58 30.9 23.4 35.2

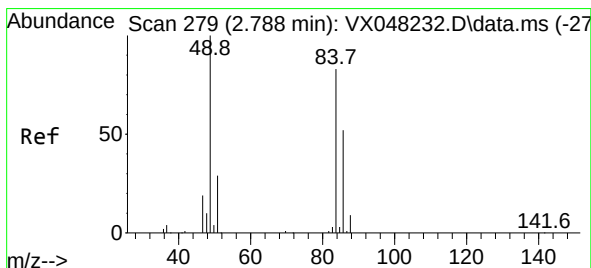
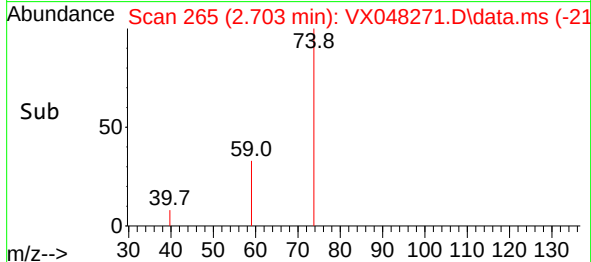
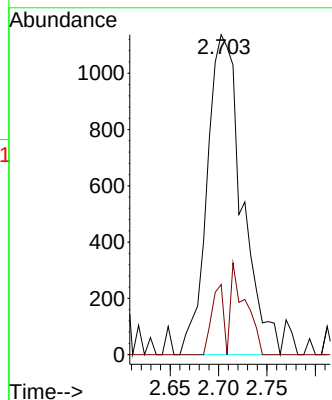
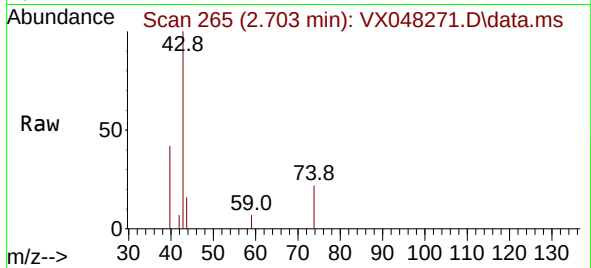




#18
Methyl Acetate
Concen: 2.490 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

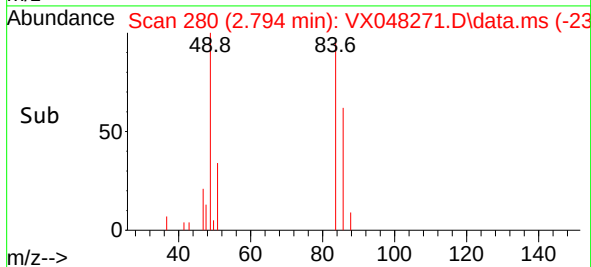
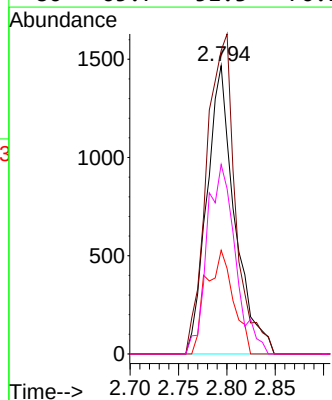
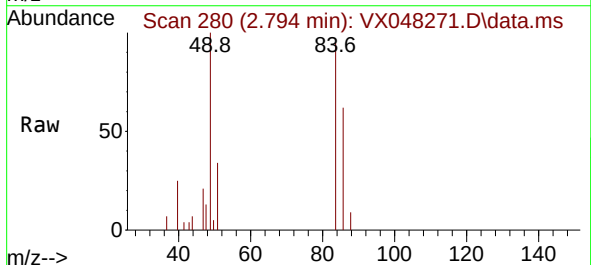
Instrument :
MSVOA_X
ClientSampleId :
MH-20

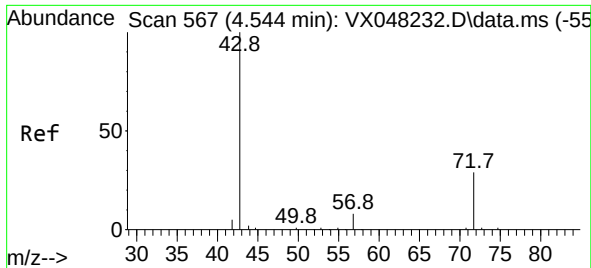
Tgt Ion: 43 Resp: 2855
Ion Ratio Lower Upper
43 100
74 7.3 17.5 26.3#



#20
Methylene Chloride
Concen: 2.199 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion: 84 Resp: 2941
Ion Ratio Lower Upper
84 100
49 105.2 104.1 156.1
51 36.0 31.3 46.9
86 65.7 51.3 76.9

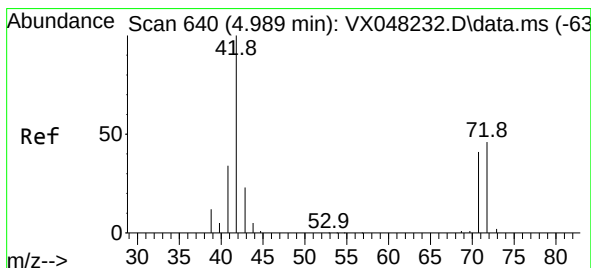
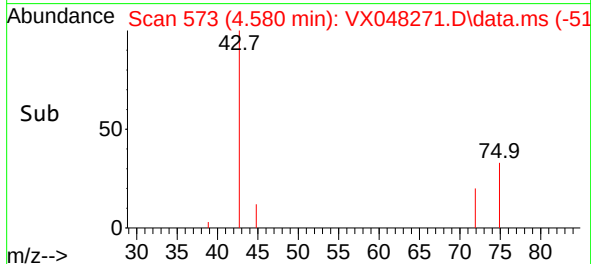
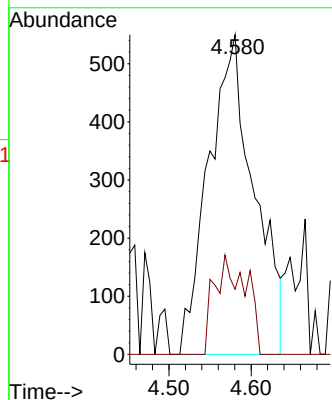
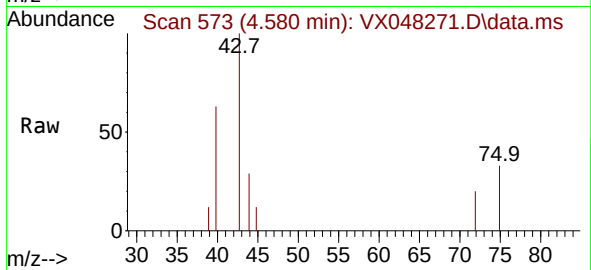




#25
2-Butanone
Concen: 3.047 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.043 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

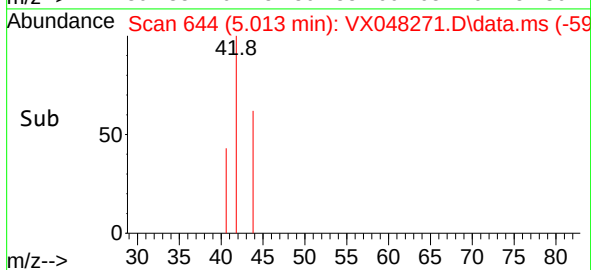
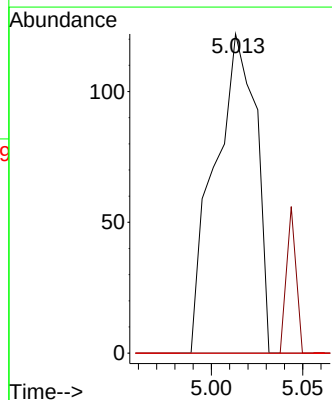
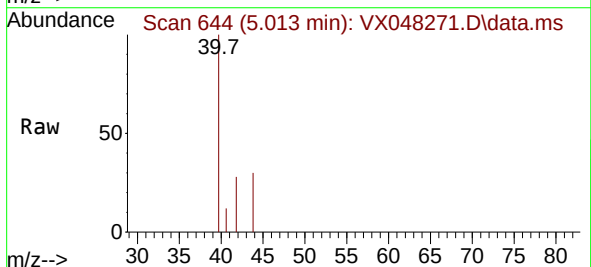
Instrument :
MSVOA_X
ClientSampleId :
MH-20

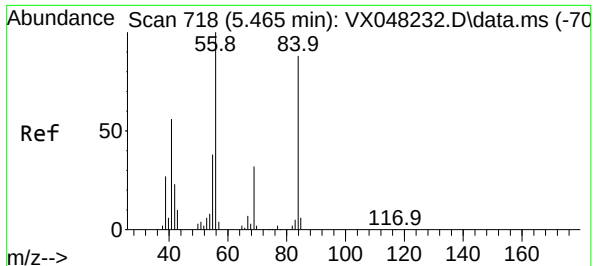
Tgt Ion: 43 Resp: 2117
Ion Ratio Lower Upper
43 100
72 20.4 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.464 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.024 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion: 42 Resp: 193
Ion Ratio Lower Upper
42 100
72 0.0 35.3 52.9#
71 0.0 32.2 48.4#

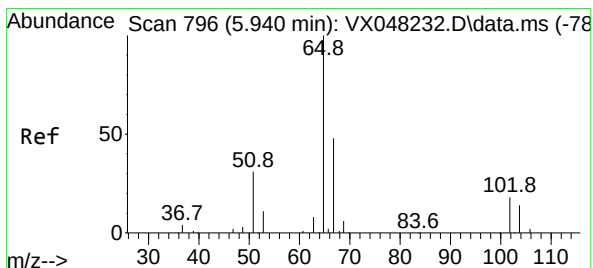
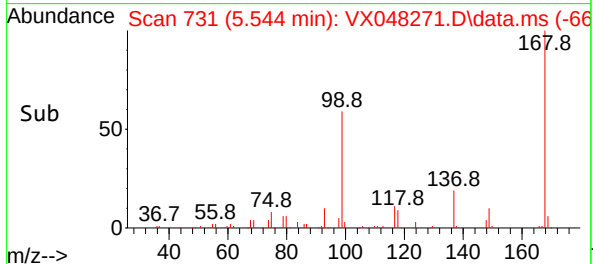
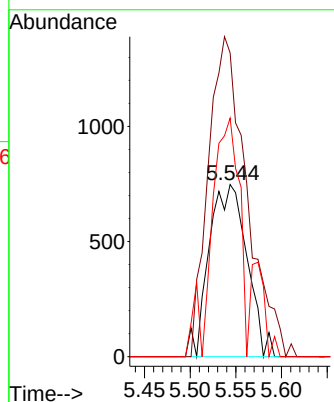
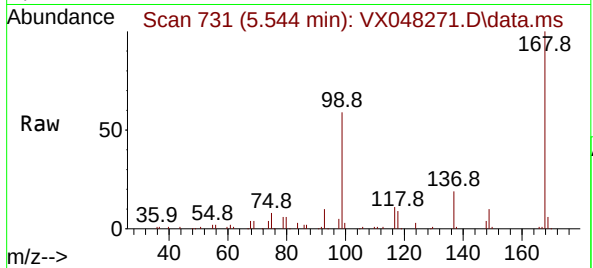




#31
Cyclohexane
Concen: 1.083 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.085 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

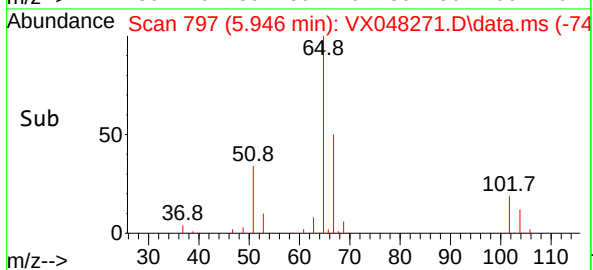
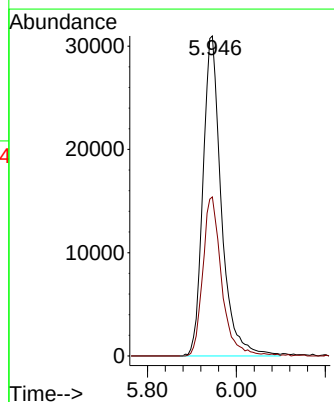
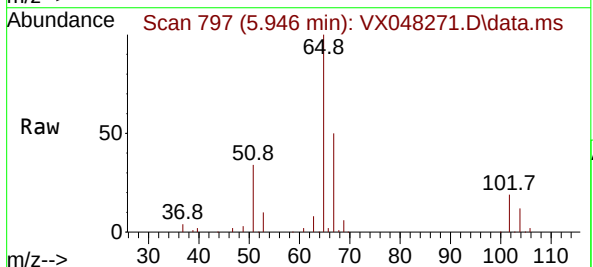
Instrument :
MSVOA_X
ClientSampleId :
MH-20

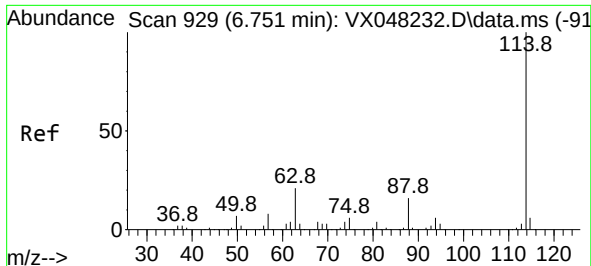
Tgt Ion: 56 Resp: 2151
Ion Ratio Lower Upper
56 100
69 176.5 23.0 34.6#
84 138.5 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 55.899 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion: 65 Resp: 89456
Ion Ratio Lower Upper
65 100
67 50.4 0.0 105.0

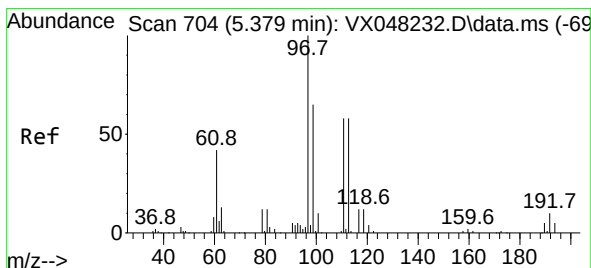
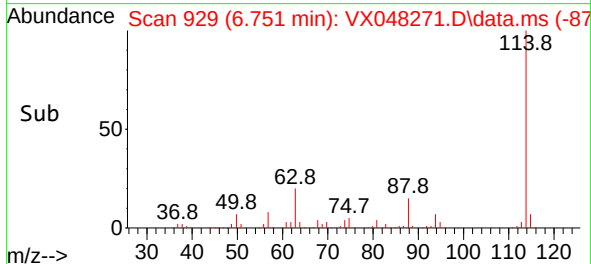
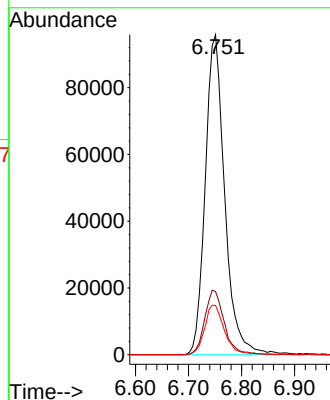
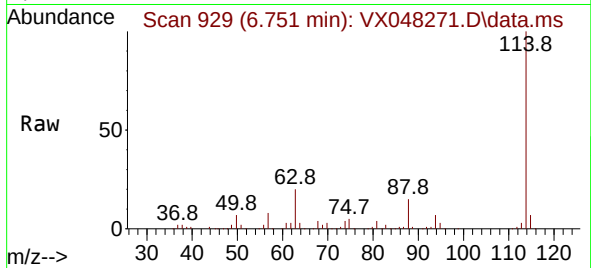




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

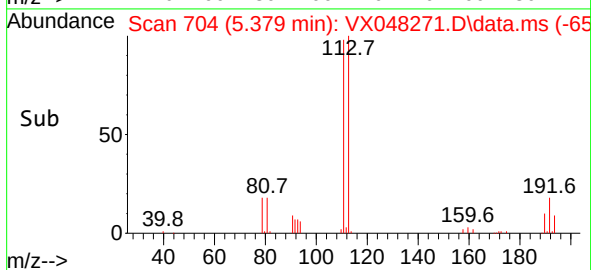
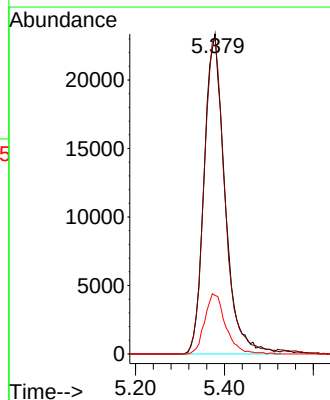
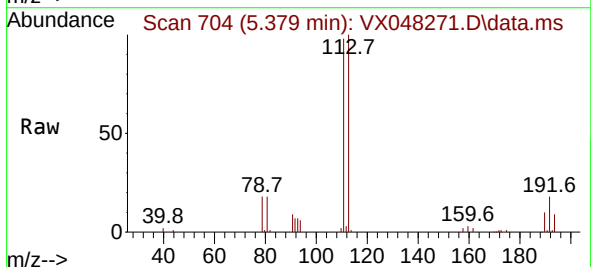
Instrument :
MSVOA_X
ClientSampleId :
MH-20

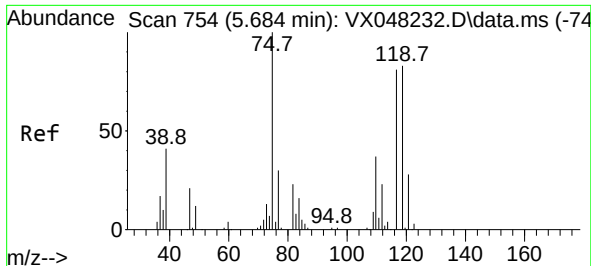
Tgt Ion:114 Resp: 243985
Ion Ratio Lower Upper
114 100
63 19.8 0.0 43.2
88 15.4 0.0 33.6



#35
Dibromofluoromethane
Concen: 45.812 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion:113 Resp: 76308
Ion Ratio Lower Upper
113 100
111 98.8 82.2 123.4
192 18.8 15.1 22.7





#36

1,1-Dichloropropene

Concen: 3.716 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX048271.D

Acq: 21 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

MH-20

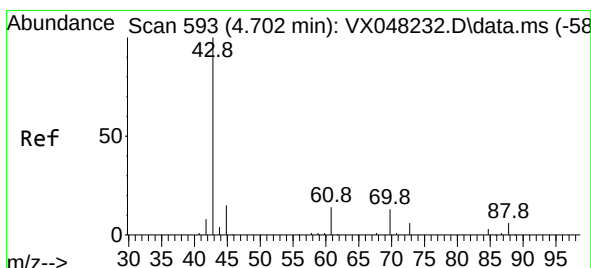
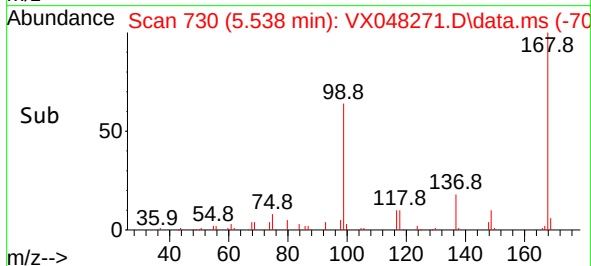
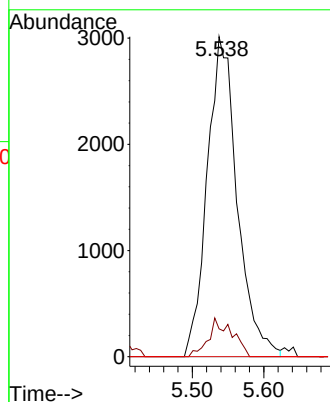
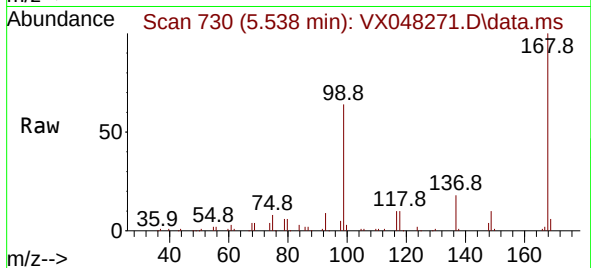
Tgt Ion: 75 Resp: 8797

Ion Ratio Lower Upper

75 100

110 9.5 17.7 53.1#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 0.452 ug/l

RT: 4.727 min Scan# 597

Delta R.T. 0.030 min

Lab File: VX048271.D

Acq: 21 Oct 2025 15:44

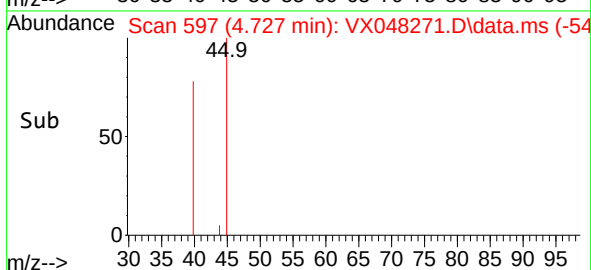
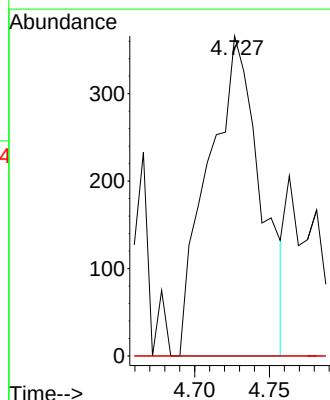
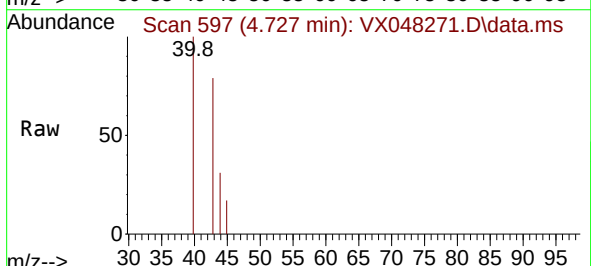
Tgt Ion: 43 Resp: 887

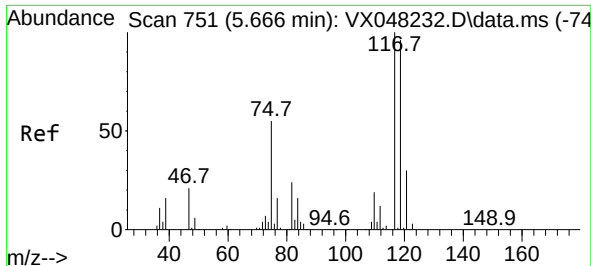
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

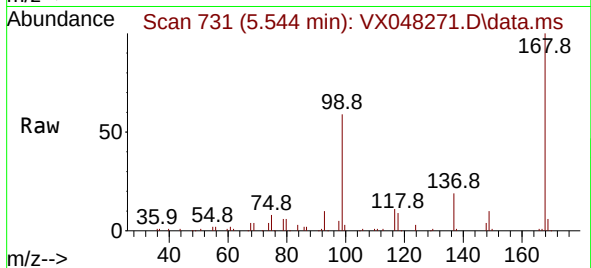
70 0.0 7.8 11.6#



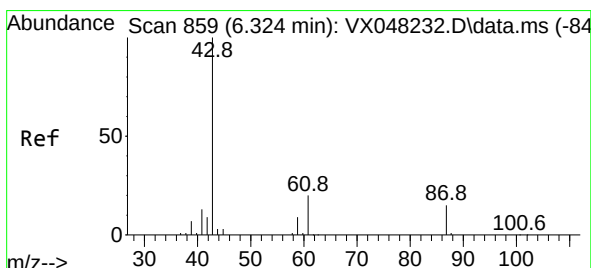
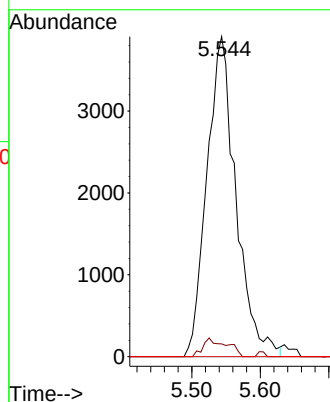
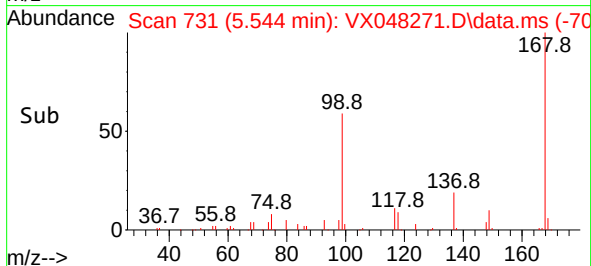


#38
Carbon Tetrachloride
Concen: 3.948 ug/l
RT: 5.544 min Scan# 751
Delta R.T. -0.122 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
MH-20

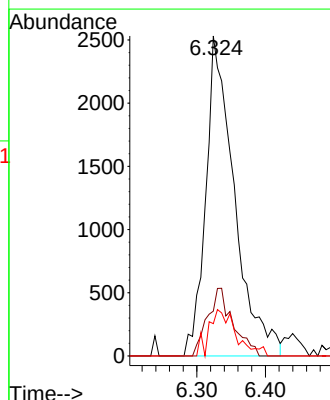
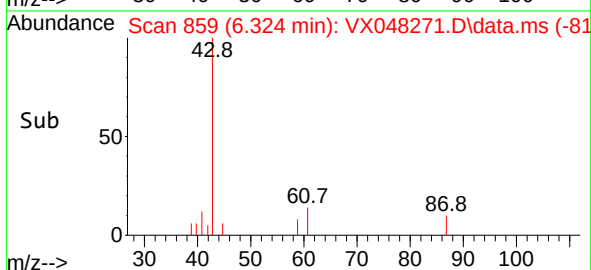
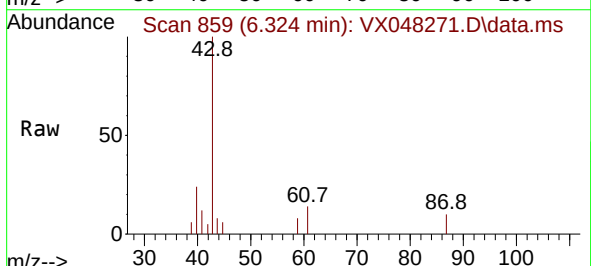


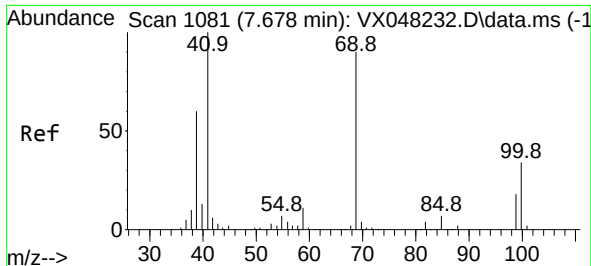
Tgt Ion:117 Resp: 11531
Ion Ratio Lower Upper
117 100
119 4.0 77.2 115.8#
121 0.0 24.8 37.2#



#43
Isopropyl Acetate
Concen: 2.279 ug/l
RT: 6.324 min Scan# 859
Delta R.T. -0.000 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion: 43 Resp: 7347
Ion Ratio Lower Upper
43 100
61 18.9 14.9 22.3
87 13.7 9.4 14.2

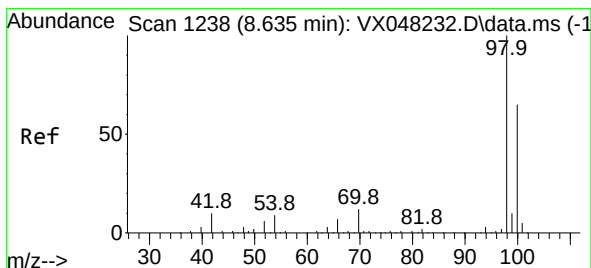
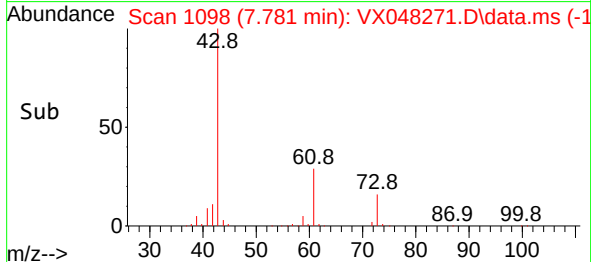
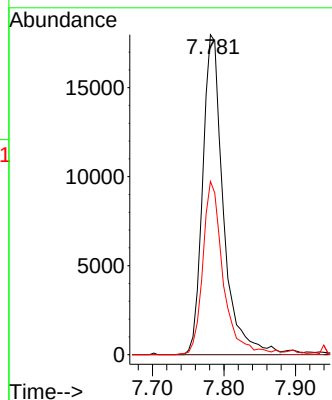
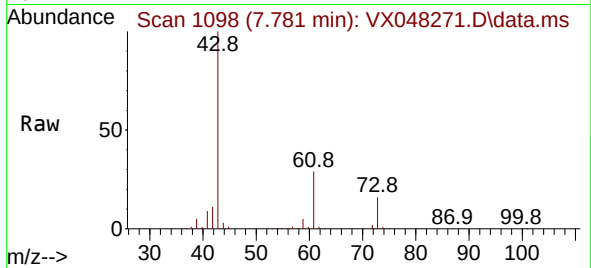




#48
Methyl methacrylate
Concen: 22.193 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

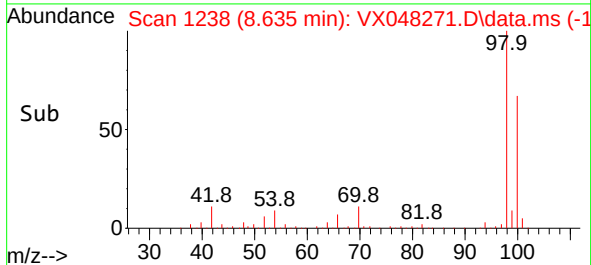
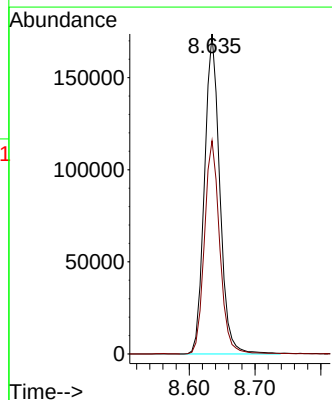
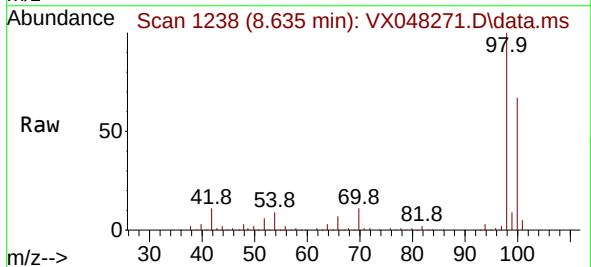
Instrument :
MSVOA_X
ClientSampleId :
MH-20

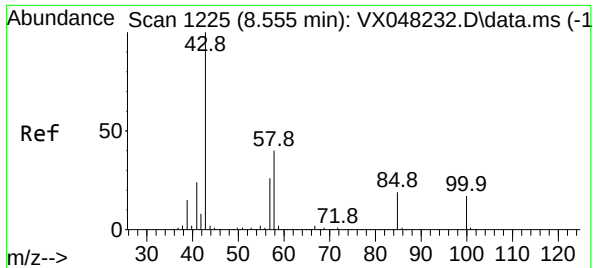
Tgt Ion: 41 Resp: 36098
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 53.3 47.1 70.7



#50
Toluene-d8
Concen: 48.076 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion: 98 Resp: 280684
Ion Ratio Lower Upper
98 100
100 66.8 53.0 79.4

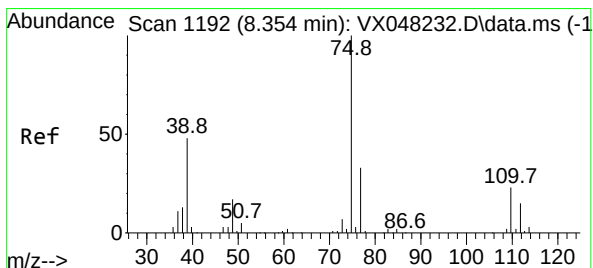
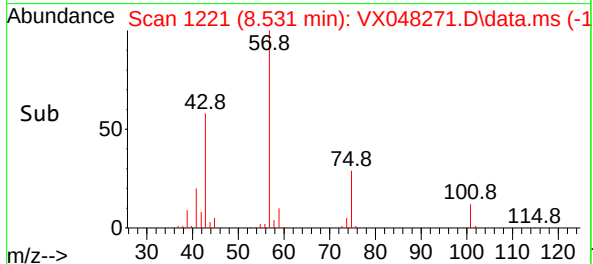
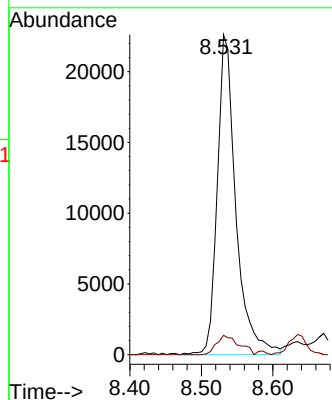
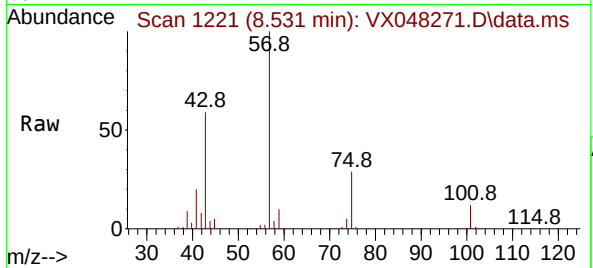




#51
4-Methyl-2-Pentanone
Concen: 21.980 ug/l
RT: 8.531 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

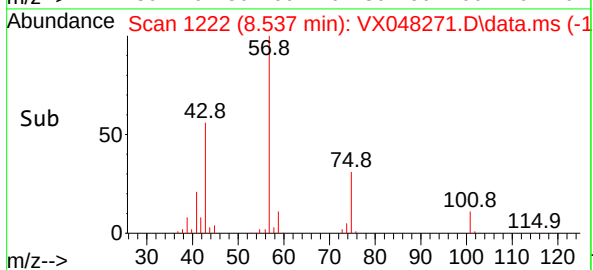
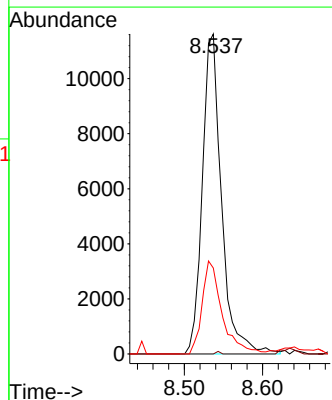
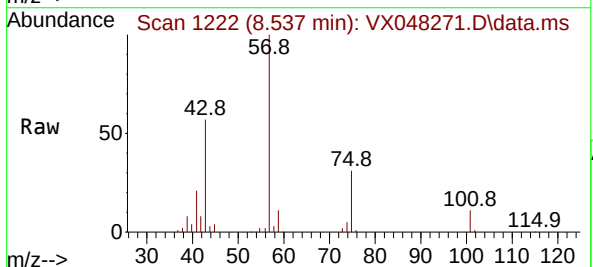
Instrument :
MSVOA_X
ClientSampleId :
MH-20

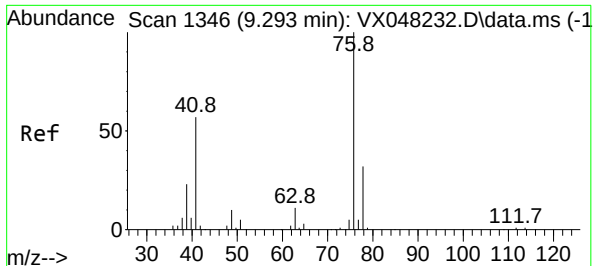
Tgt Ion: 43 Resp: 40850
Ion Ratio Lower Upper
43 100
58 7.4 29.5 44.3#



#54
cis-1,3-Dichloropropene
Concen: 6.906 ug/l
RT: 8.537 min Scan# 1222
Delta R.T. 0.189 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion: 75 Resp: 19738
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#
39 25.5 42.6 64.0#





#57

1,3-Dichloropropane

Concen: 0.531 ug/l

RT: 9.470 min Scan# 1375

Delta R.T. 0.177 min

Lab File: VX048271.D

Acq: 21 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

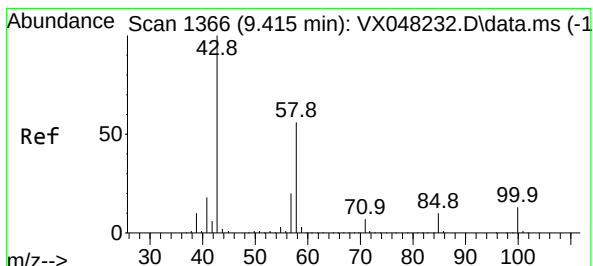
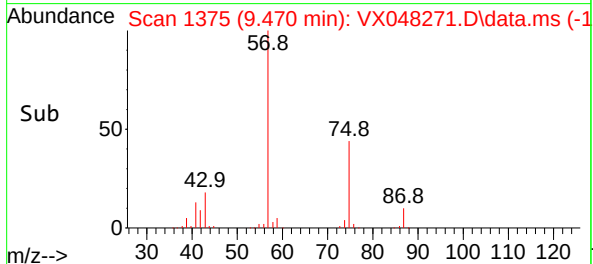
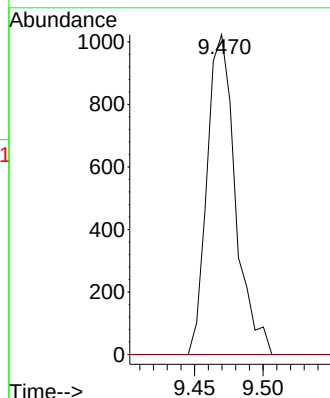
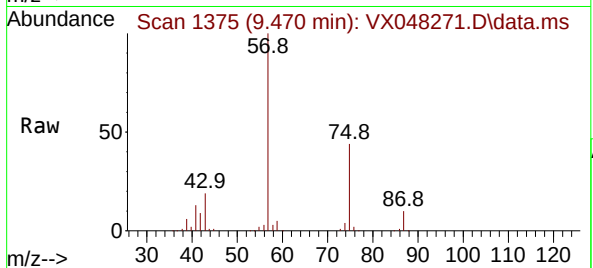
MH-20

Tgt Ion: 76 Resp: 1473

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



#59

2-Hexanone

Concen: 14.917 ug/l

RT: 9.470 min Scan# 1375

Delta R.T. 0.055 min

Lab File: VX048271.D

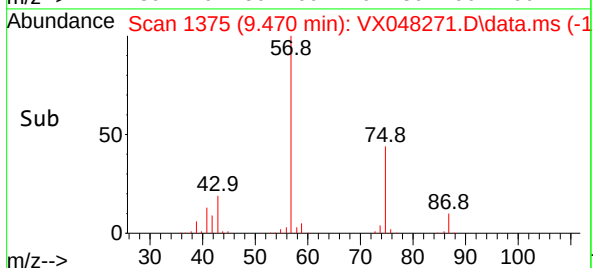
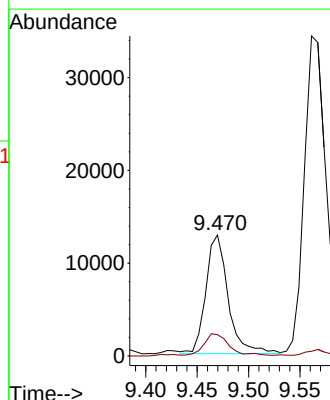
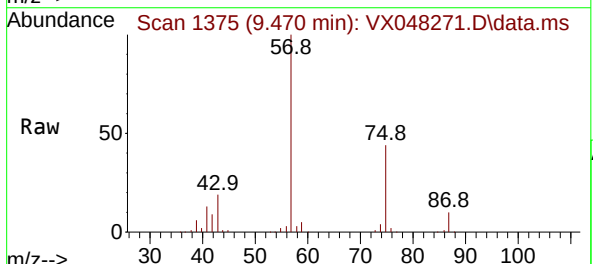
Acq: 21 Oct 2025 15:44

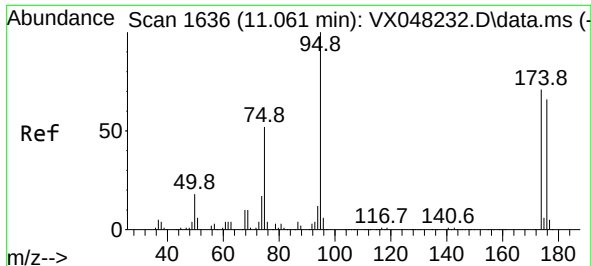
Tgt Ion: 43 Resp: 19331

Ion Ratio Lower Upper

43 100

58 21.6 26.3 78.8#





#62

4-Bromofluorobenzene

Concen: 54.905 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048271.D

Acq: 21 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

MH-20

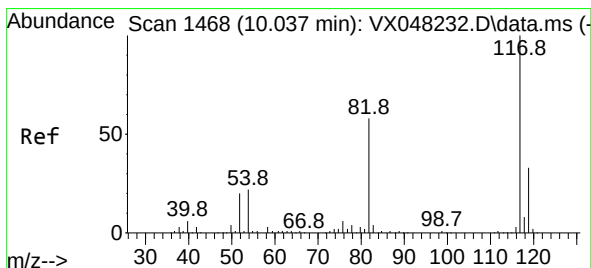
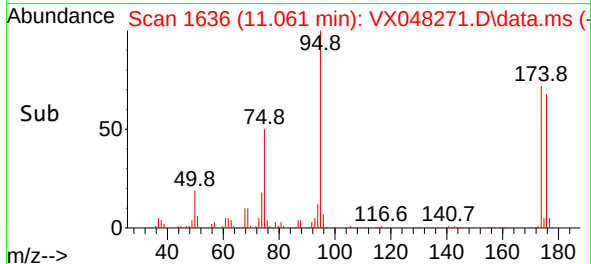
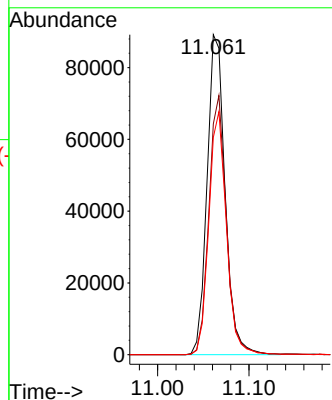
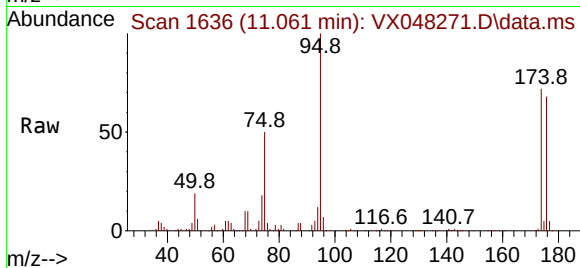
Tgt Ion: 95 Resp: 121948

Ion Ratio Lower Upper

95 100

174 79.4 0.0 147.8

176 74.2 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: VX048271.D

Acq: 21 Oct 2025 15:44

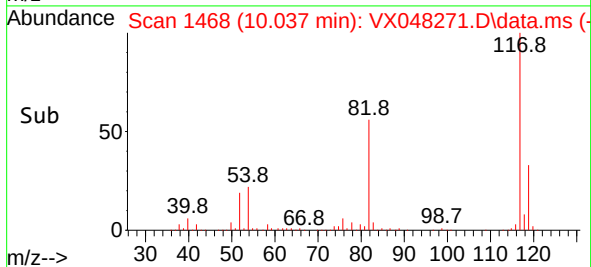
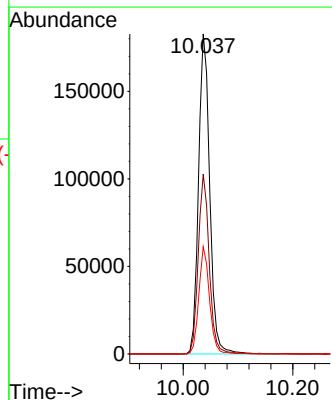
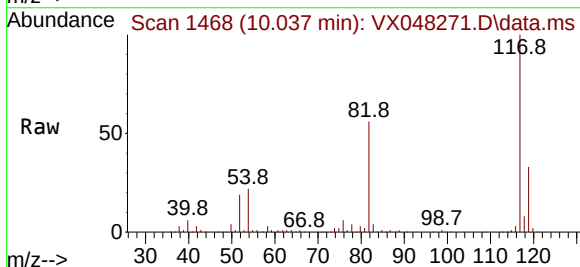
Tgt Ion: 117 Resp: 259738

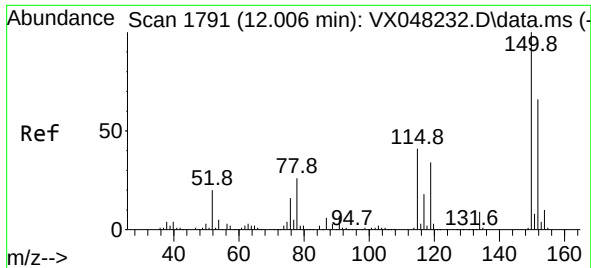
Ion Ratio Lower Upper

117 100

82 56.2 46.5 69.7

119 33.5 25.9 38.9

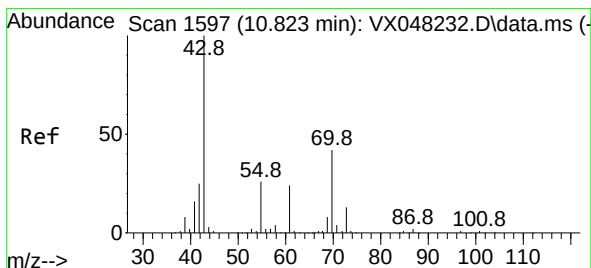
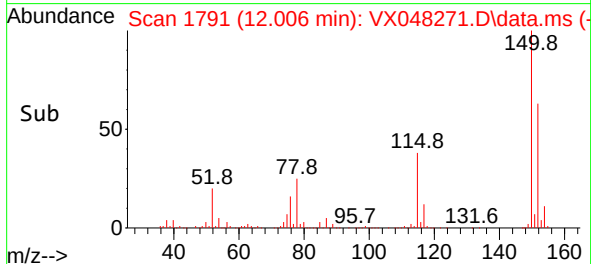
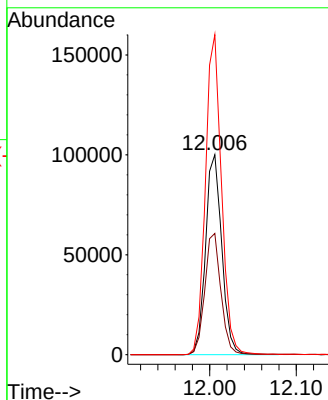
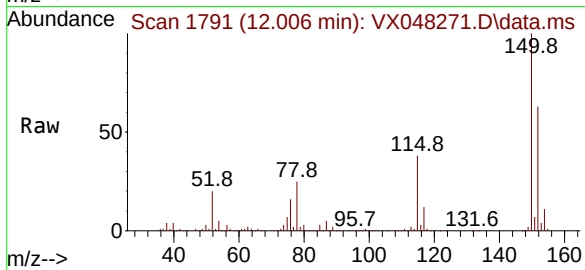




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX048271.D
 Acq: 21 Oct 2025 15:44

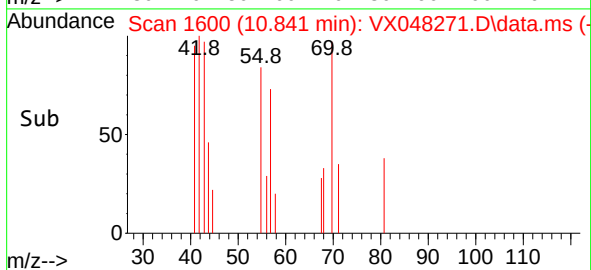
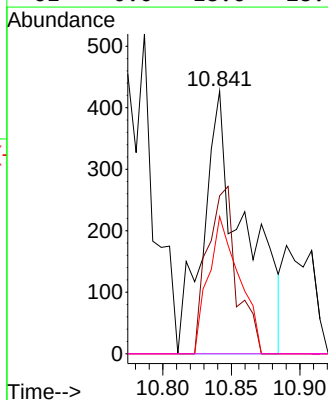
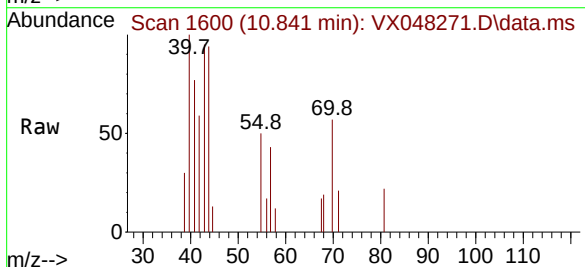
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-20

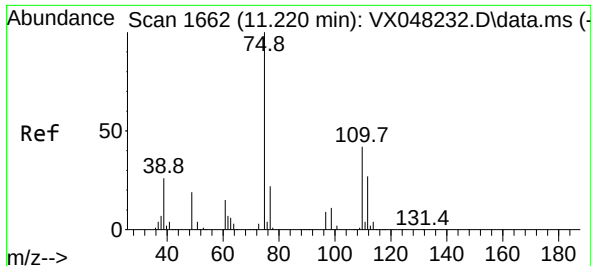
Tgt Ion:152 Resp: 130335
 Ion Ratio Lower Upper
 152 100
 115 60.5 43.1 129.4
 150 158.0 0.0 353.0



#74
 N-ethyl acetate
 Concen: 0.268 ug/l
 RT: 10.841 min Scan# 1600
 Delta R.T. 0.018 min
 Lab File: VX048271.D
 Acq: 21 Oct 2025 15:44

Tgt Ion: 43 Resp: 906
 Ion Ratio Lower Upper
 43 100
 70 44.3 32.2 48.2
 55 38.6 19.1 28.7#
 61 0.0 18.6 28.0#

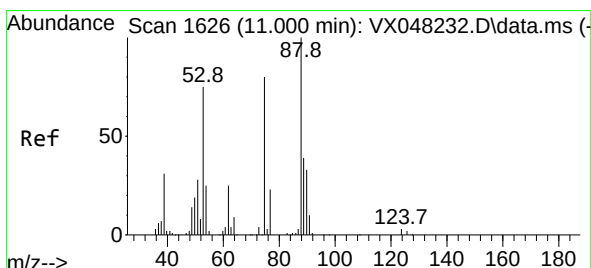
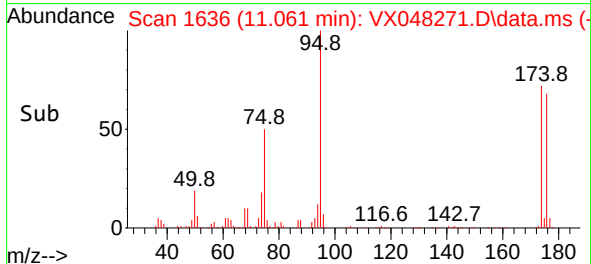
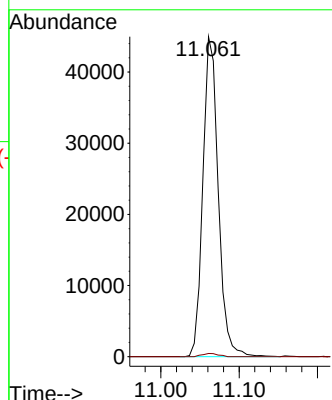
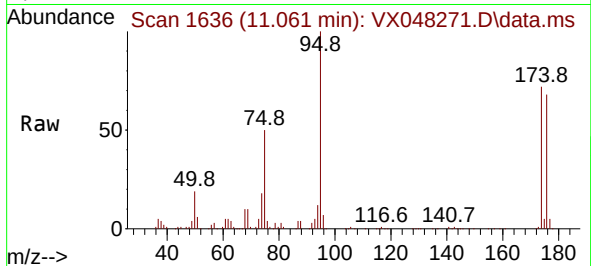




#76
1,2,3-Trichloropropane
Concen: 28.998 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
MH-20

Tgt Ion: 75 Resp: 61289
Ion Ratio Lower Upper
75 100
77 1.1 22.4 67.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.549 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048271.D
Acq: 21 Oct 2025 15:44

Tgt Ion: 75 Resp: 61289
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#

