

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042825\
 Data File : VX045961.D
 Acq On : 28 Apr 2025 16:59
 Operator : JC/MD
 Sample : Q1892-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-U2

Quant Time: Apr 29 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

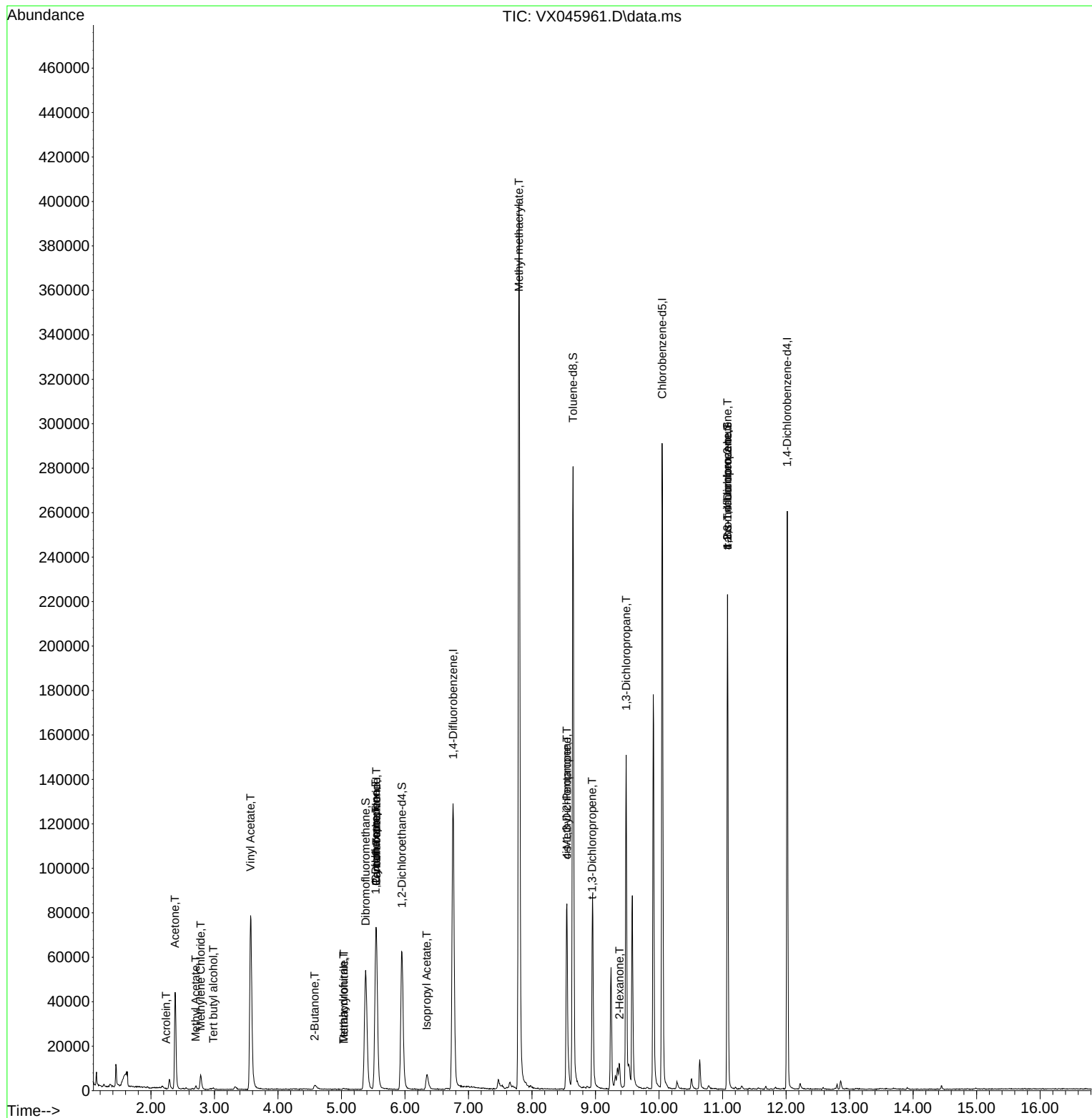
Internal Standards						
1) Pentafluorobenzene	5.550	168	62747	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	125847	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116276	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	45281	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63546	55.379	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.760%
35) Dibromofluoromethane	5.379	113	45031	50.433	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.860%
50) Toluene-d8	8.647	98	160197	51.403	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.800%
62) 4-Bromofluorobenzene	11.079	95	56247	49.548	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.100%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.983	59	706	4.578	ug/l #	72
13) Acrolein	2.239	56	158	0.744	ug/l #	30
16) Acetone	2.380	43	48309	102.526	ug/l	99
18) Methyl Acetate	2.703	43	2033	1.874	ug/l #	91
20) Methylene Chloride	2.782	84	2903	3.291	ug/l #	88
23) Vinyl Acetate	3.568	43	1467	0.603	ug/l #	74
25) 2-Butanone	4.574	43	4597	6.665	ug/l #	86
29) Tetrahydrofuran	5.032	42	276	0.617	ug/l #	41
31) Cyclohexane	5.544	56	1969	1.399	ug/l #	42
36) 1,1-Dichloropropene	5.538	75	6023	4.996	ug/l #	51
38) Carbon Tetrachloride	5.550	117	7738	5.939	ug/l #	15
41) Methacrylonitrile	5.038	41	166	0.207	ug/l #	44
43) Isopropyl Acetate	6.342	43	9899	4.299	ug/l	100
48) Methyl methacrylate	7.793	41	40143	33.765	ug/l #	50
51) 4-Methyl-2-Pentanone	8.549	43	35469	23.236	ug/l #	48
53) t-1,3-Dichloropropene	8.946	75	116	2.371	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	13226	9.993	ug/l #	66
57) 1,3-Dichloropropane	9.482	76	1230	0.796	ug/l #	42
59) 2-Hexanone	9.378	43	9888	8.747	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	33686	30.499	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	33686	103.508	ug/l #	1

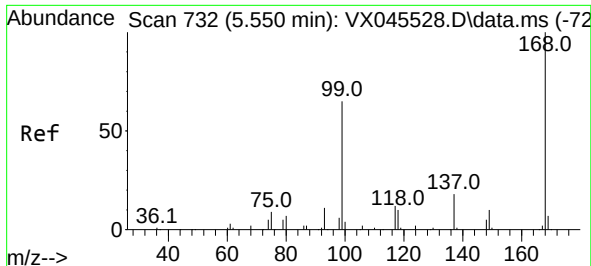
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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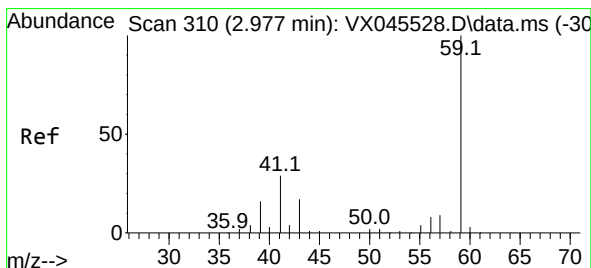
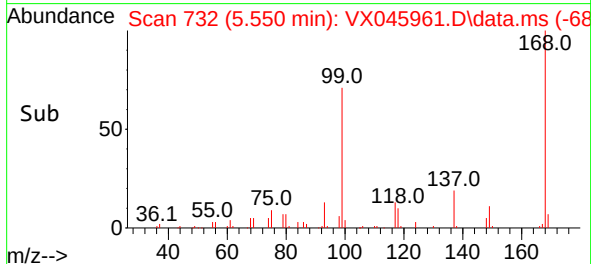
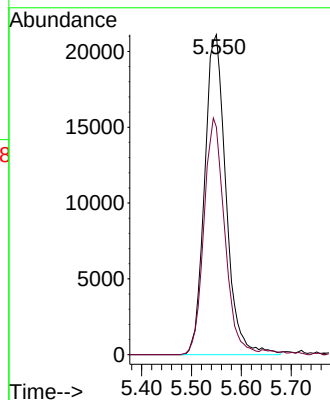
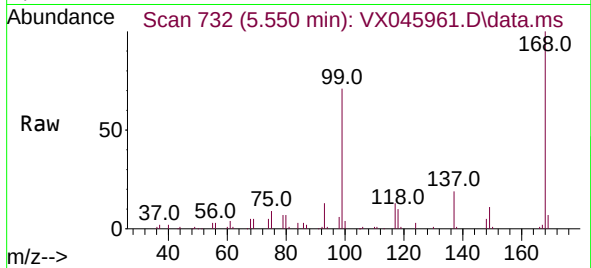




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

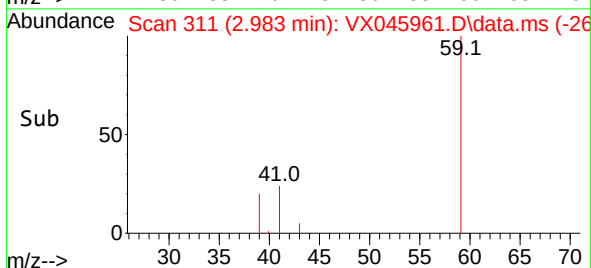
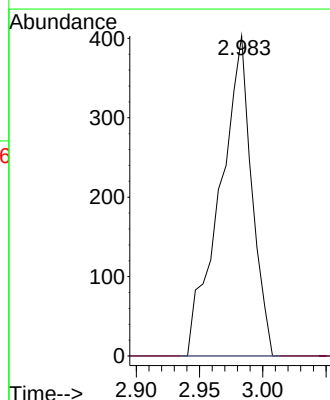
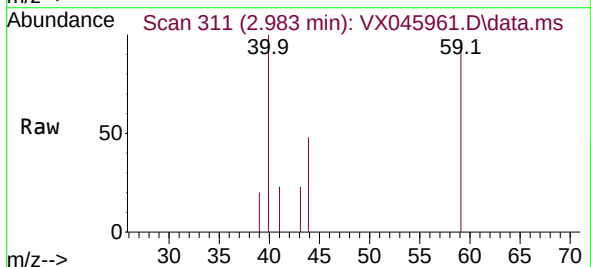
Instrument :
MSVOA_X
ClientSampleId :
MH-U2

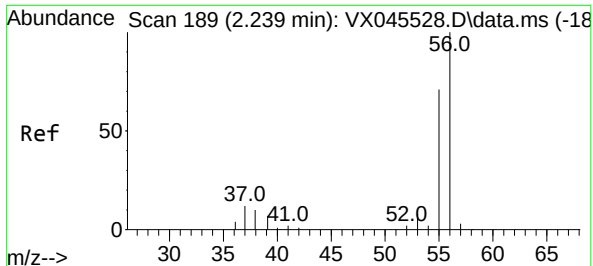
Tgt Ion:168 Resp: 62747
Ion Ratio Lower Upper
168 100
99 71.1 52.3 78.5



#11
Tert butyl alcohol
Concen: 4.578 ug/l
RT: 2.983 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

Tgt Ion: 59 Resp: 706
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 0.744 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

Instrument :

MSVOA_X

ClientSampleId :

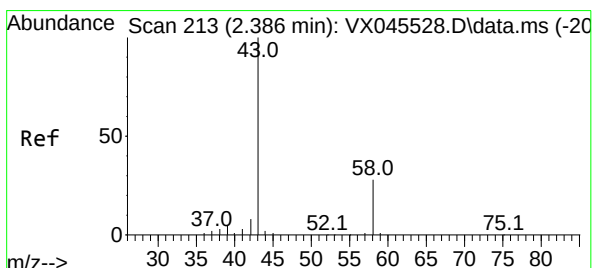
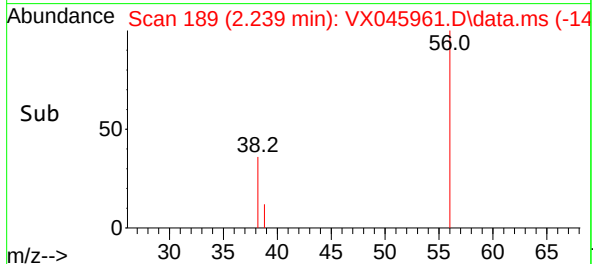
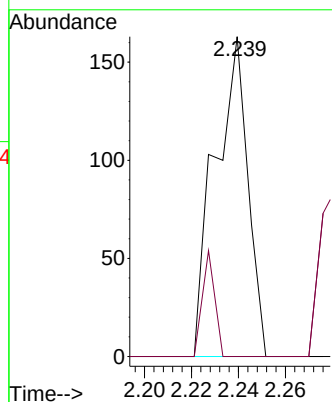
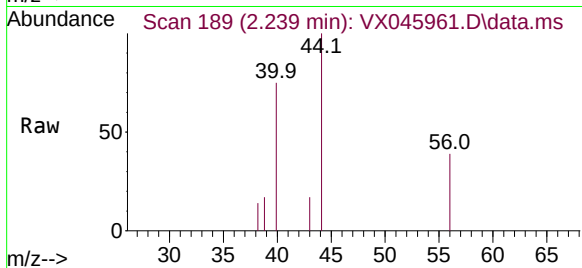
MH-U2

Tgt Ion: 56 Resp: 158

Ion Ratio Lower Upper

56 100

55 12.7 56.2 84.2#



#16

Acetone

Concen: 102.526 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045961.D

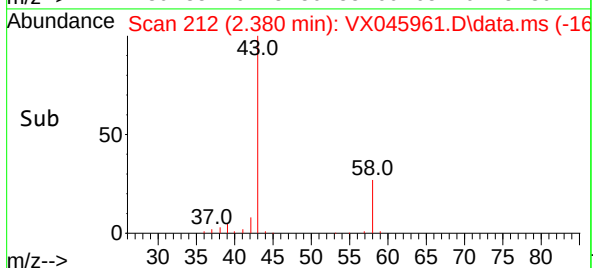
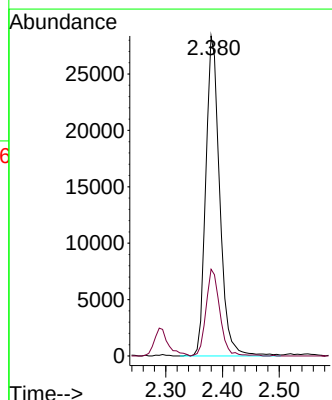
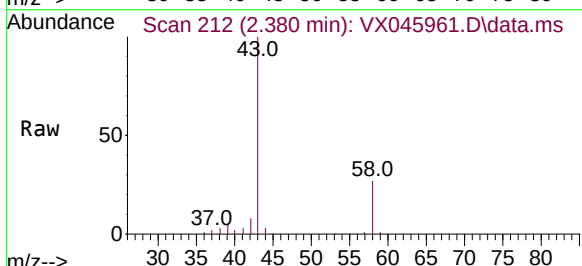
Acq: 28 Apr 2025 16:59

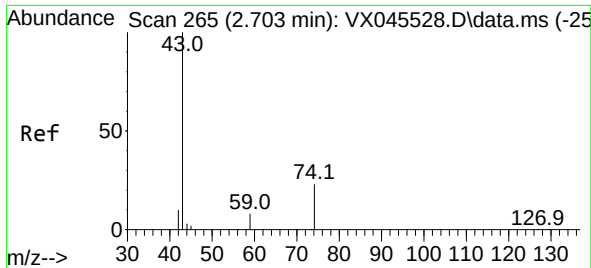
Tgt Ion: 43 Resp: 48309

Ion Ratio Lower Upper

43 100

58 27.1 22.3 33.5

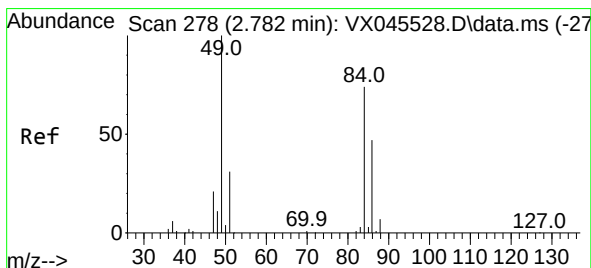
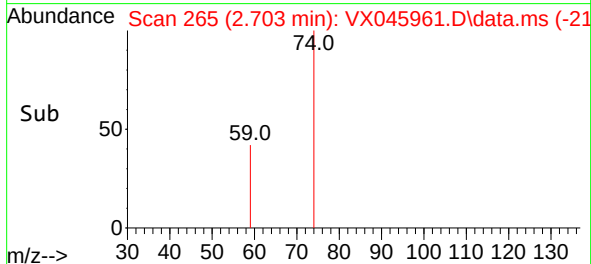
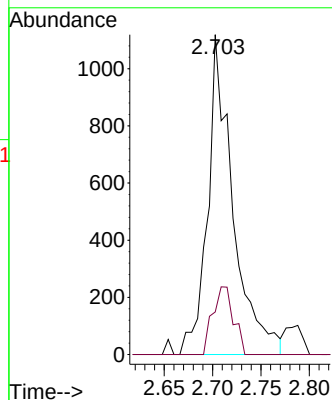
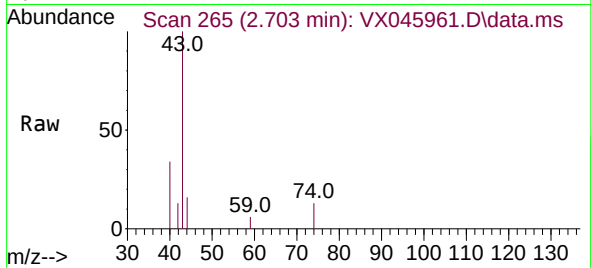




#18
Methyl Acetate
Concen: 1.874 ug/l
RT: 2.703 min Scan# 2033
Delta R.T. 0.000 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

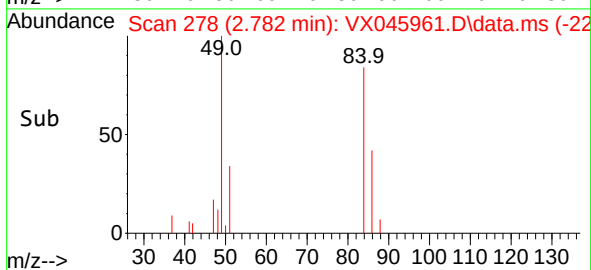
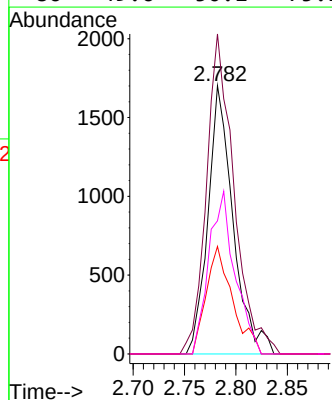
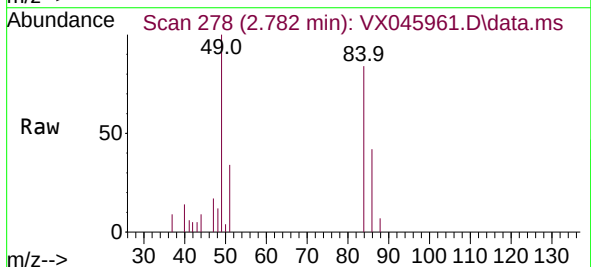
Instrument :
MSVOA_X
ClientSampleId :
MH-U2

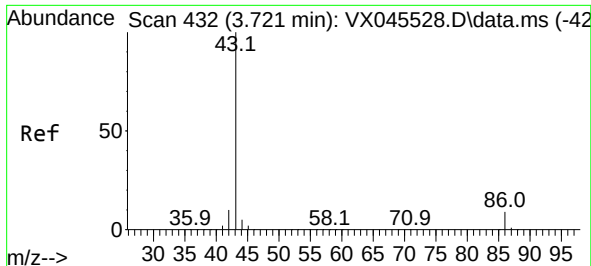
Tgt Ion: 43 Resp: 2033
Ion Ratio Lower Upper
43 100
74 17.4 17.5 26.3#



#20
Methylene Chloride
Concen: 3.291 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

Tgt Ion: 84 Resp: 2903
Ion Ratio Lower Upper
84 100
49 119.3 107.5 161.3
51 40.1 33.0 49.6
86 49.6 50.1 75.1#

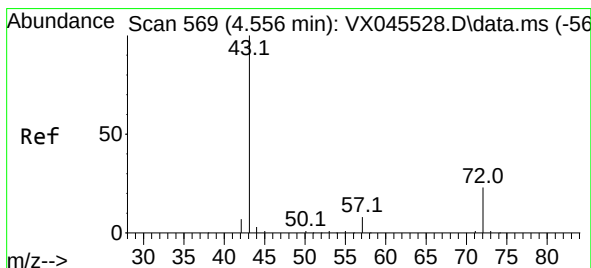
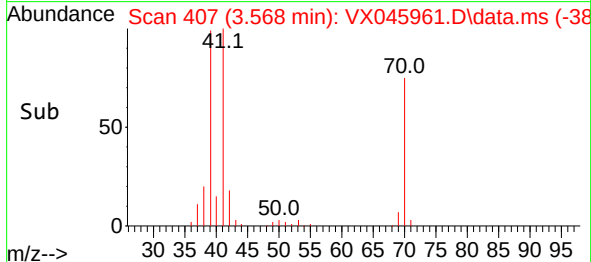
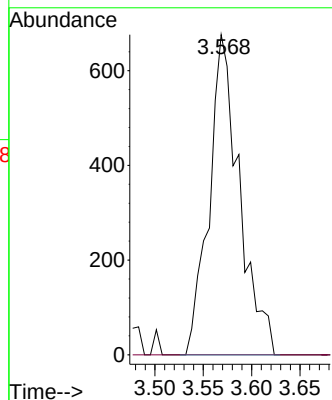
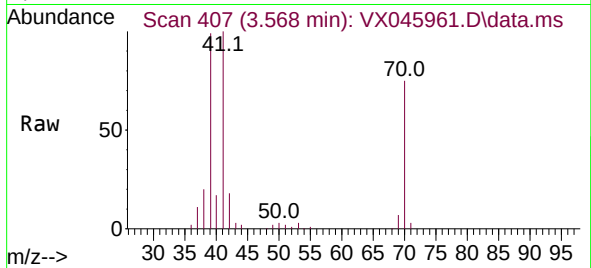




#23
 Vinyl Acetate
 Concen: 0.603 ug/l
 RT: 3.568 min Scan# 407
 Delta R.T. -0.152 min
 Lab File: VX045961.D
 Acq: 28 Apr 2025 16:59

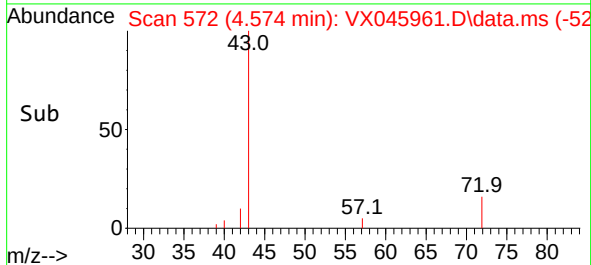
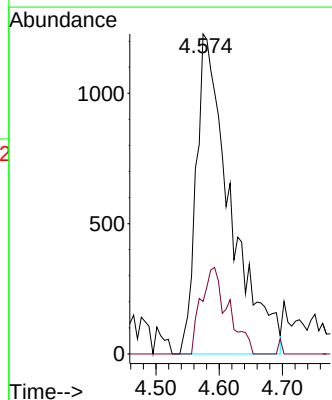
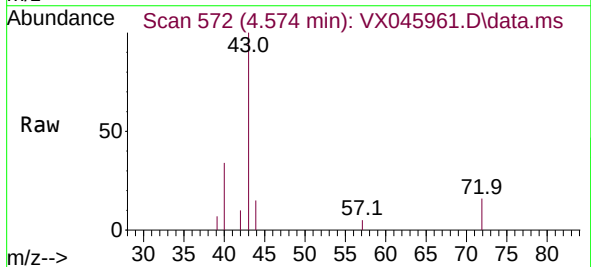
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-U2

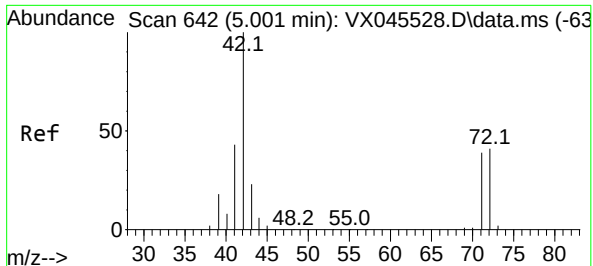
Tgt Ion: 43 Resp: 1467
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.5 11.3#



#25
 2-Butanone
 Concen: 6.665 ug/l
 RT: 4.574 min Scan# 572
 Delta R.T. 0.018 min
 Lab File: VX045961.D
 Acq: 28 Apr 2025 16:59

Tgt Ion: 43 Resp: 4597
 Ion Ratio Lower Upper
 43 100
 72 16.4 18.6 28.0#





#29

Tetrahydrofuran

Concen: 0.617 ug/l

RT: 5.032 min Scan# 642

Delta R.T. 0.031 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

Instrument :

MSVOA_X

ClientSampleId :

MH-U2

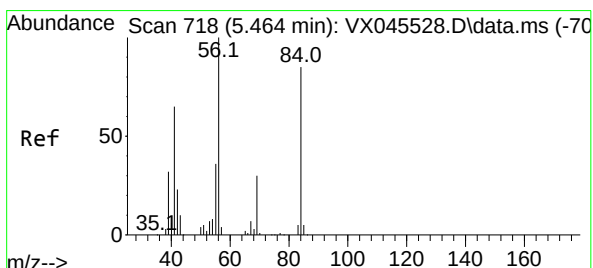
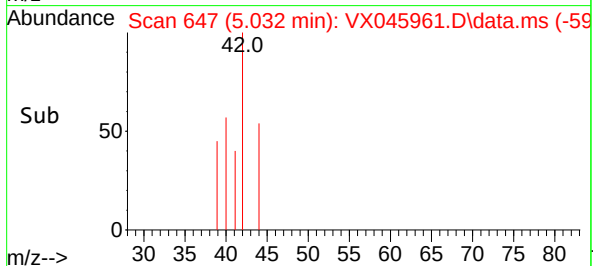
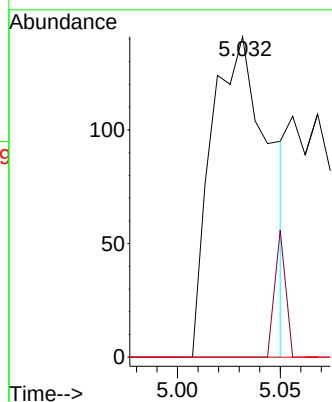
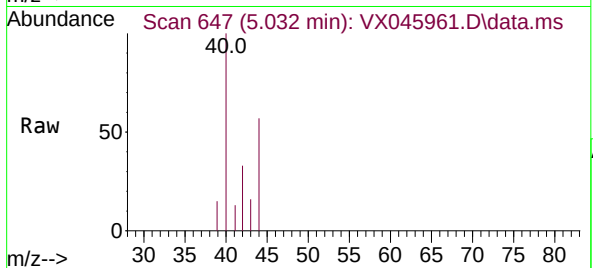
Tgt Ion: 42 Resp: 276

Ion Ratio Lower Upper

42 100

72 7.2 33.4 50.0#

71 0.0 31.4 47.0#



#31

Cyclohexane

Concen: 1.399 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

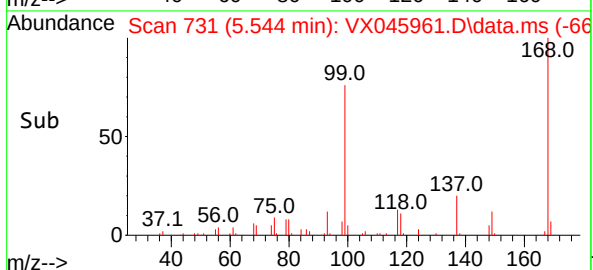
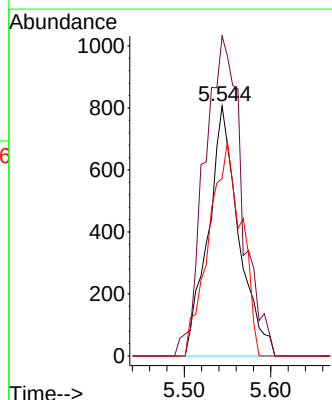
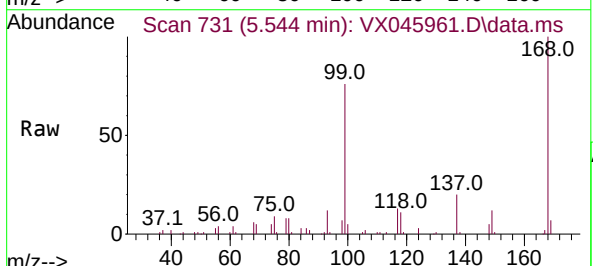
Tgt Ion: 56 Resp: 1969

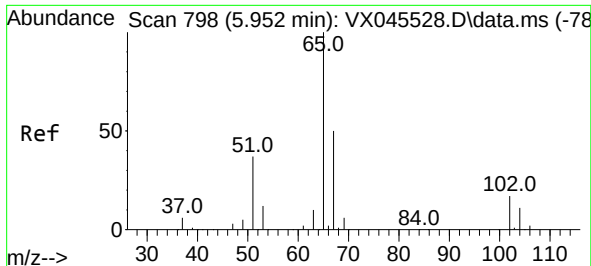
Ion Ratio Lower Upper

56 100

69 128.0 23.6 35.4#

84 71.1 67.7 101.5





#33

1,2-Dichloroethane-d4

Concen: 55.379 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

Instrument :

MSVOA_X

ClientSampleId :

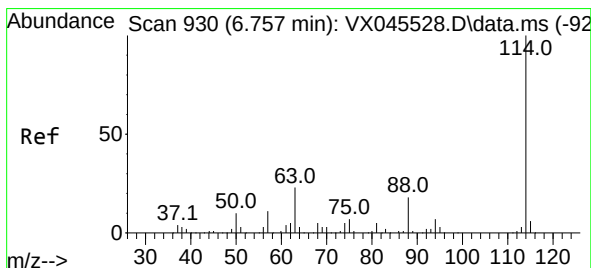
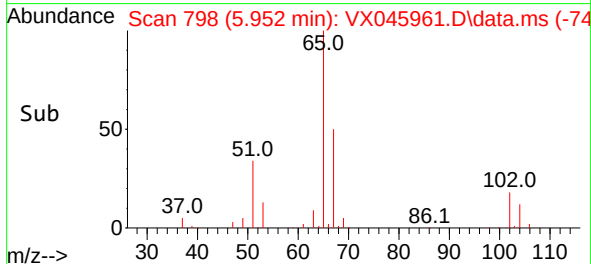
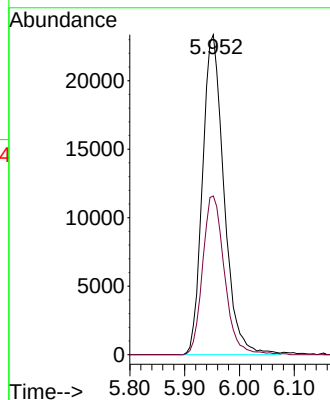
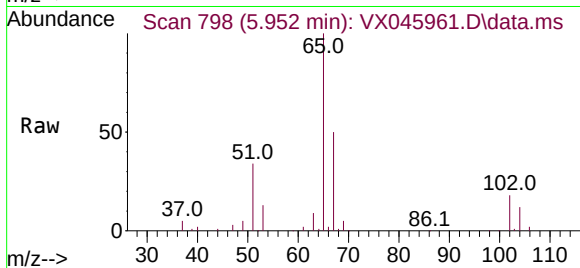
MH-U2

Tgt Ion: 65 Resp: 63546

Ion Ratio Lower Upper

65 100

67 50.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

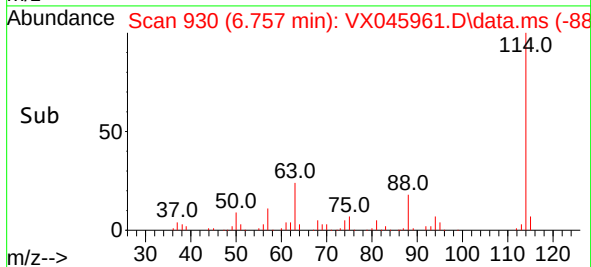
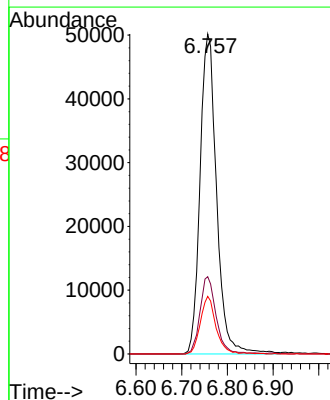
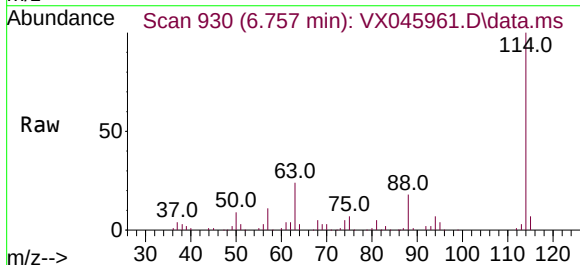
Tgt Ion: 114 Resp: 125847

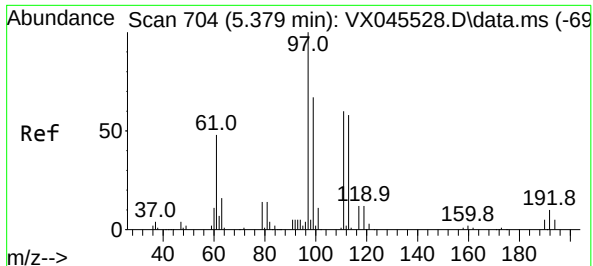
Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.8

88 18.0 0.0 35.4

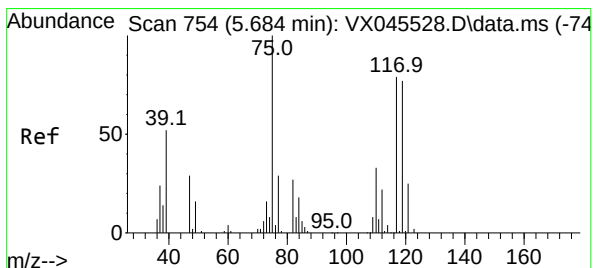
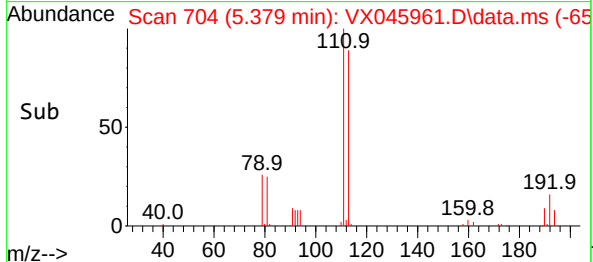
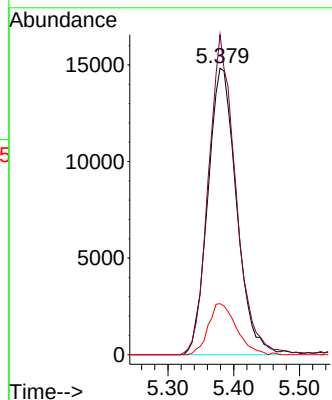
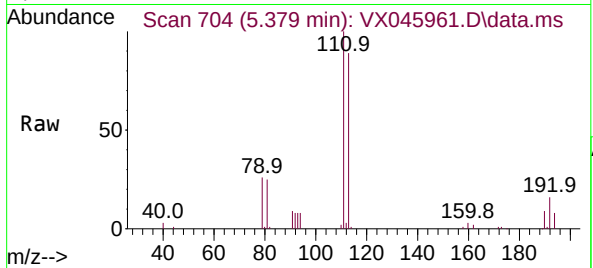




#35
Dibromofluoromethane
Concen: 50.433 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

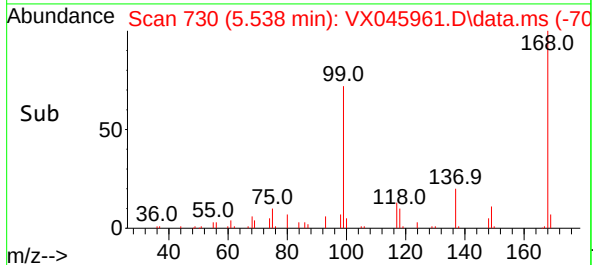
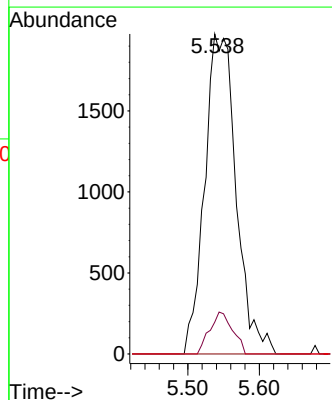
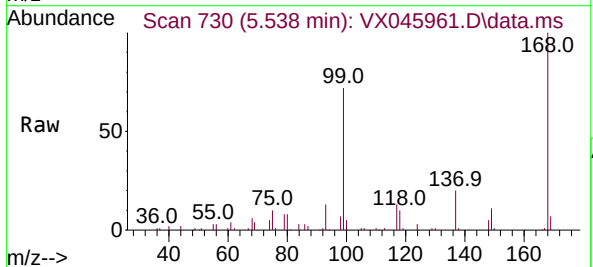
Instrument :
MSVOA_X
ClientSampleId :
MH-U2

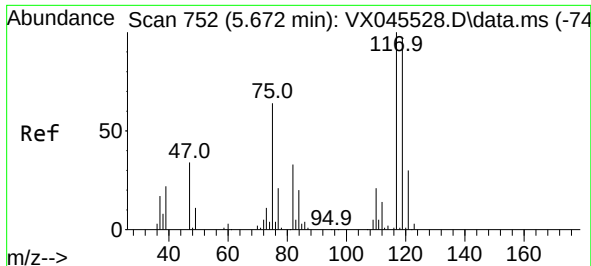
Tgt Ion:113 Resp: 45031
Ion Ratio Lower Upper
113 100
111 106.3 81.8 122.6
192 17.4 13.8 20.6



#36
1,1-Dichloropropene
Concen: 4.996 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

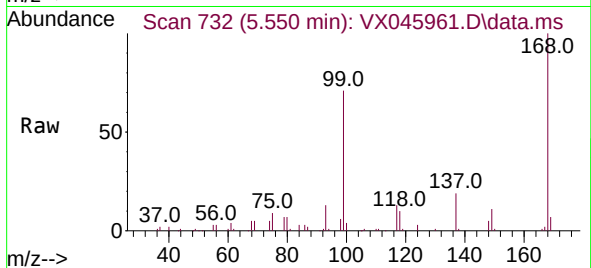
Tgt Ion: 75 Resp: 6023
Ion Ratio Lower Upper
75 100
110 9.6 16.9 50.6#
77 0.0 25.0 37.4#



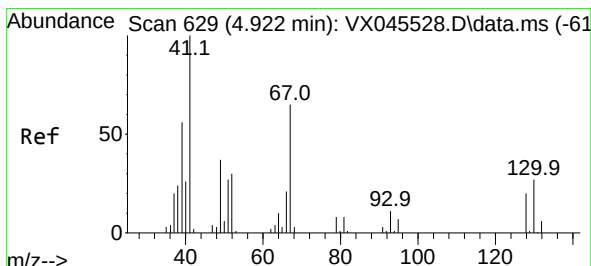
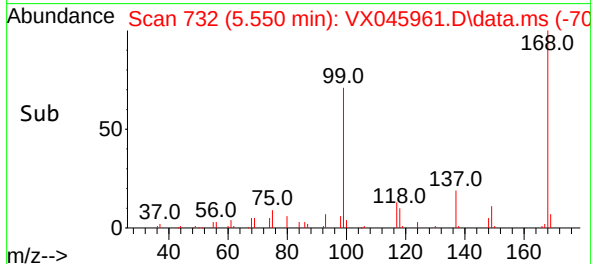
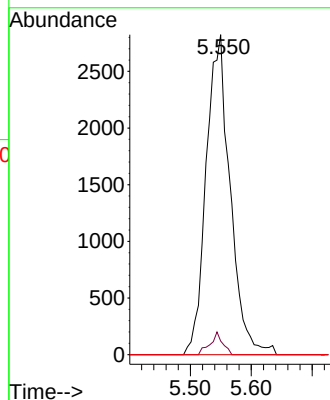


#38
Carbon Tetrachloride
Concen: 5.939 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

Instrument :
MSVOA_X
ClientSampleId :
MH-U2

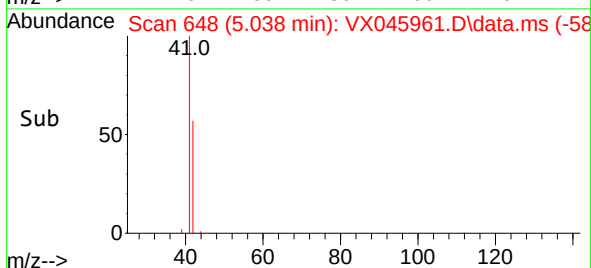
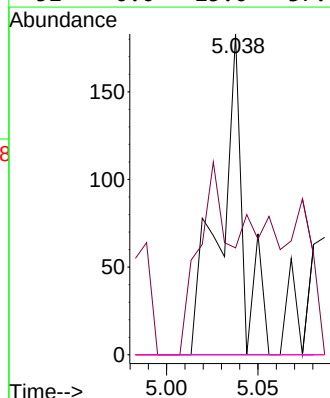
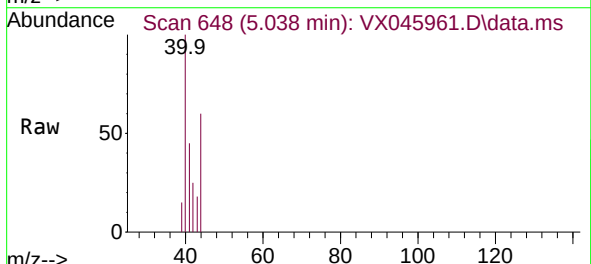


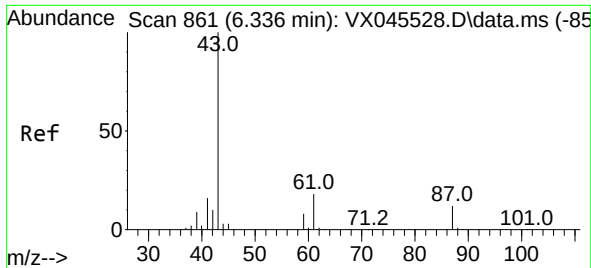
Tgt Ion:117 Resp: 7738
Ion Ratio Lower Upper
117 100
119 4.2 76.9 115.3#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 0.207 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.116 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

Tgt Ion: 41 Resp: 166
Ion Ratio Lower Upper
41 100
39 77.7 47.0 70.6#
67 0.0 53.2 79.8#
52 0.0 25.0 37.6#

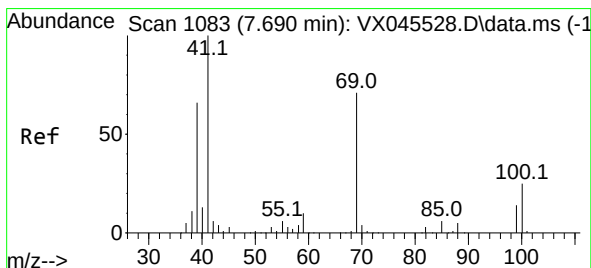
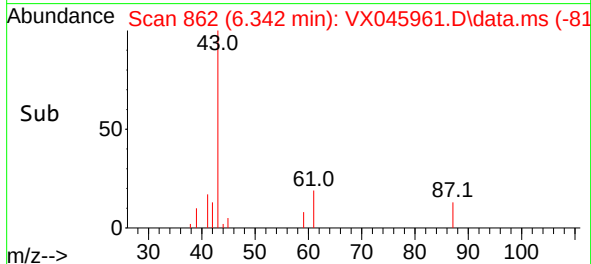
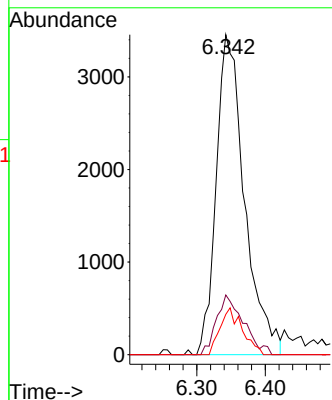
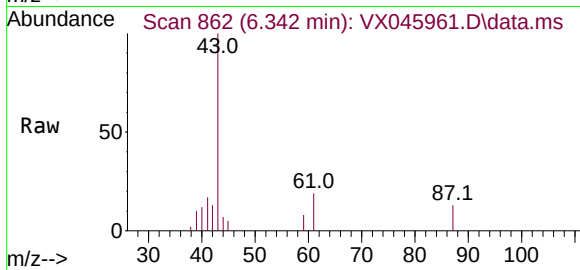




#43
Isopropyl Acetate
Concen: 4.299 ug/l
RT: 6.342 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

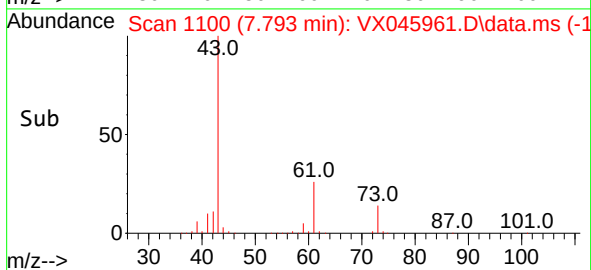
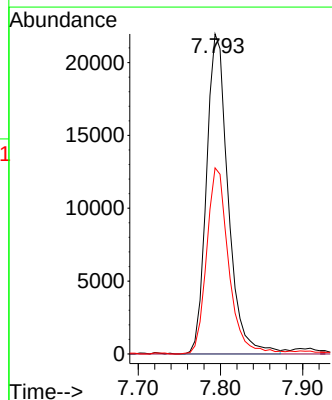
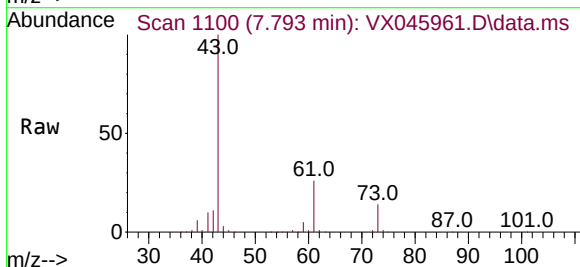
Instrument :
MSVOA_X
ClientSampleId :
MH-U2

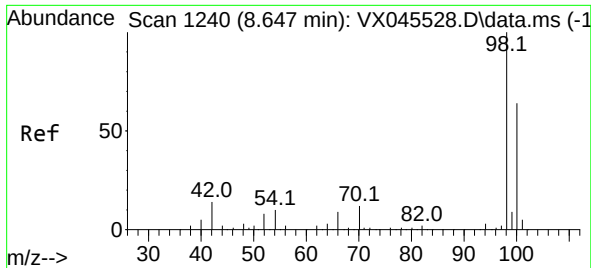
Tgt Ion: 43 Resp: 9899
Ion Ratio Lower Upper
43 100
61 17.9 14.1 21.1
87 11.5 9.2 13.8



#48
Methyl methacrylate
Concen: 33.765 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

Tgt Ion: 41 Resp: 40143
Ion Ratio Lower Upper
41 100
69 0.0 58.2 87.2#
39 59.2 53.6 80.4

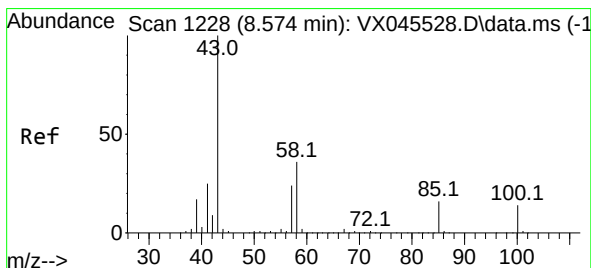
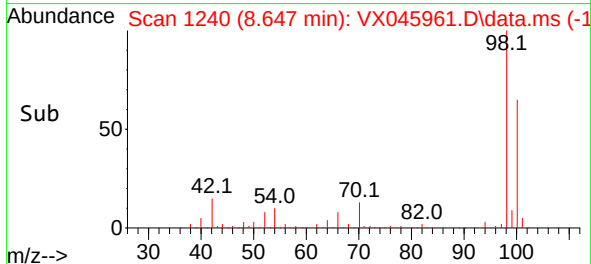
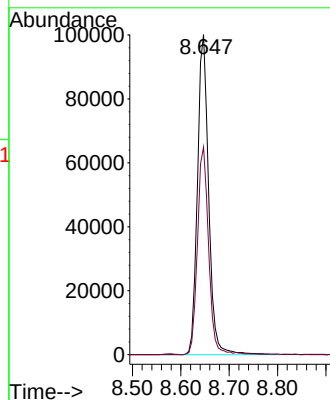
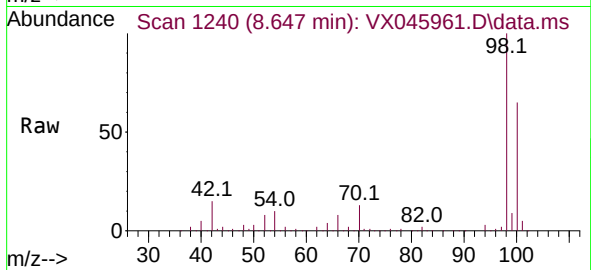




#50
Toluene-d8
Concen: 51.403 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

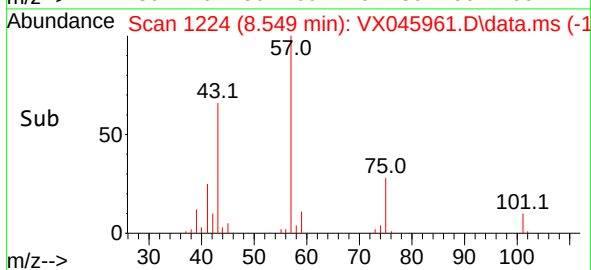
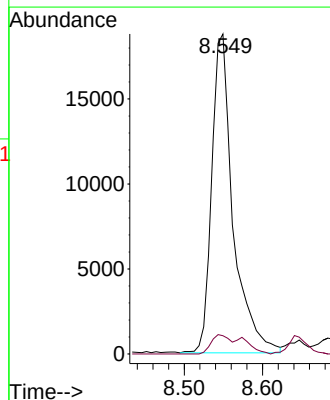
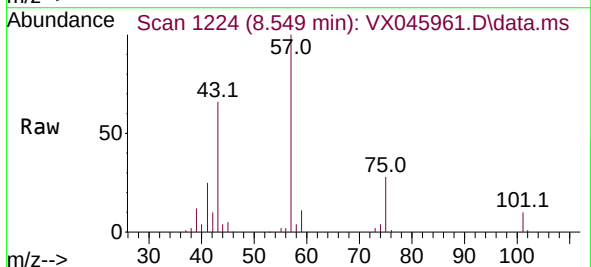
Instrument :
MSVOA_X
ClientSampleId :
MH-U2

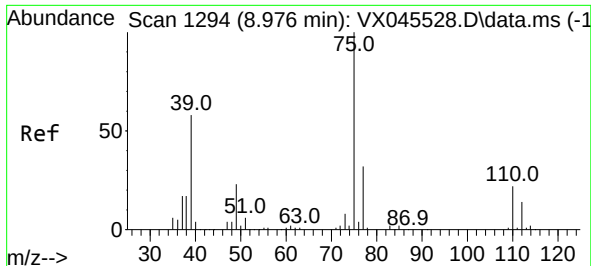
Tgt Ion: 98 Resp: 160197
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 23.236 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

Tgt Ion: 43 Resp: 35469
Ion Ratio Lower Upper
43 100
58 5.4 28.5 42.7#





#53

t-1,3-Dichloropropene

Concen: 2.371 ug/l

RT: 8.946 min Scan# 11

Delta R.T. -0.030 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

Instrument :

MSVOA_X

ClientSampleId :

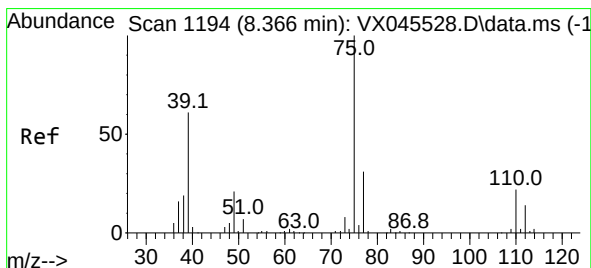
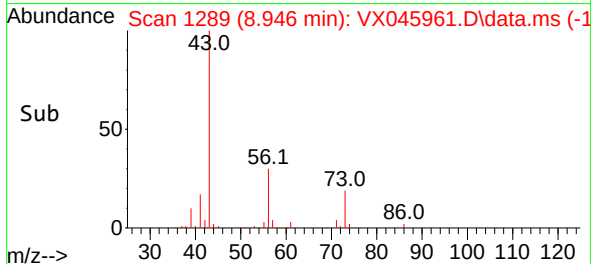
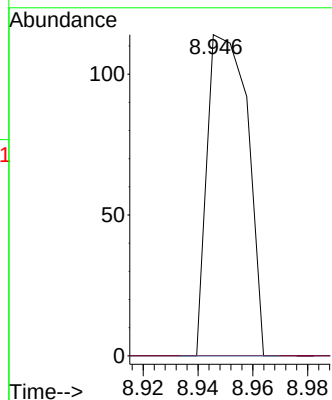
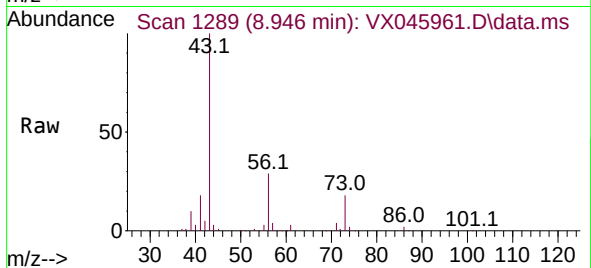
MH-U2

Tgt Ion: 75 Resp: 116

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 9.993 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

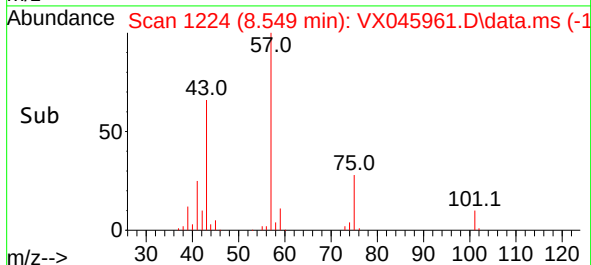
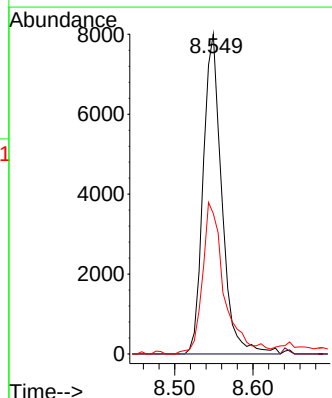
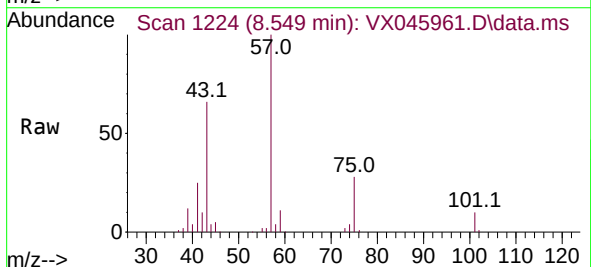
Tgt Ion: 75 Resp: 13226

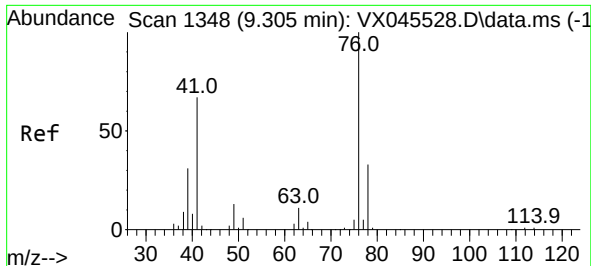
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 43.1 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 0.796 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

Instrument :

MSVOA_X

ClientSampleId :

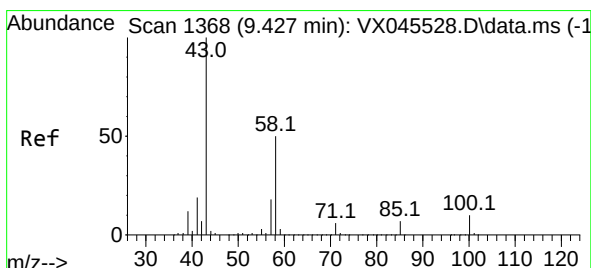
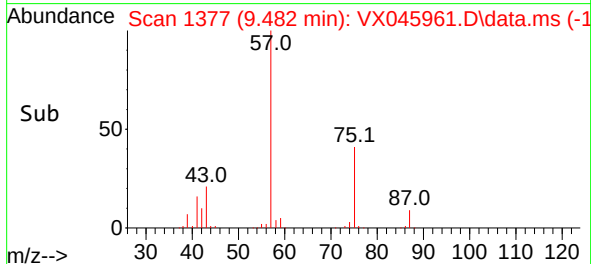
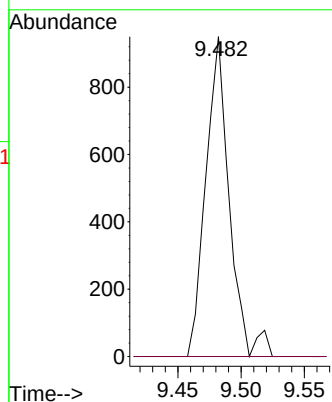
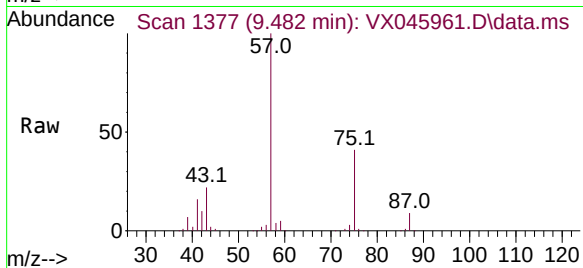
MH-U2

Tgt Ion: 76 Resp: 1230

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 8.747 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX045961.D

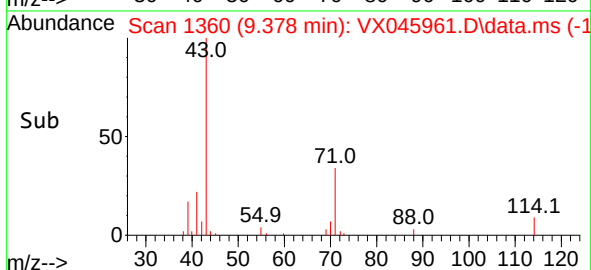
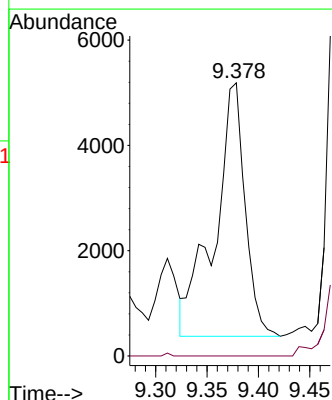
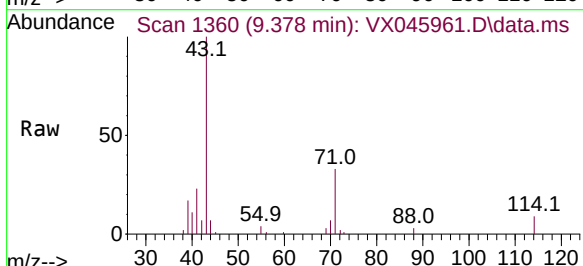
Acq: 28 Apr 2025 16:59

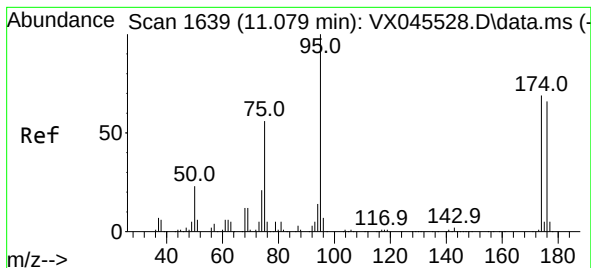
Tgt Ion: 43 Resp: 9888

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

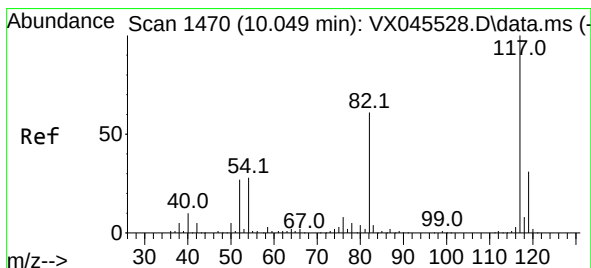
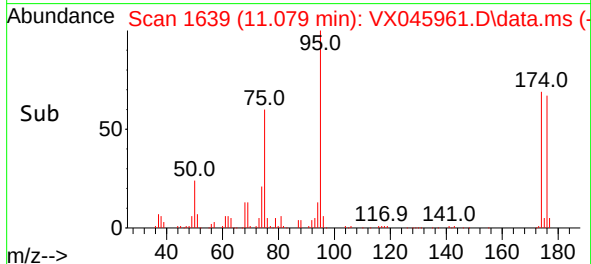
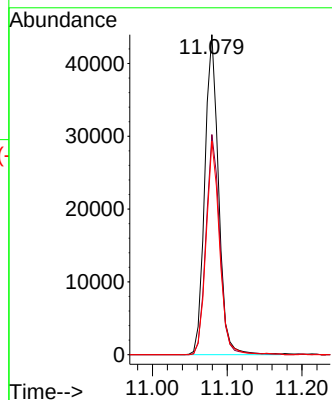
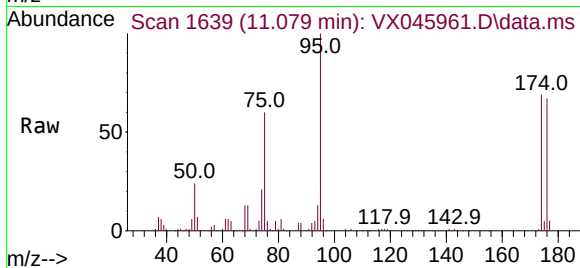




#62
4-Bromofluorobenzene
Concen: 49.548 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

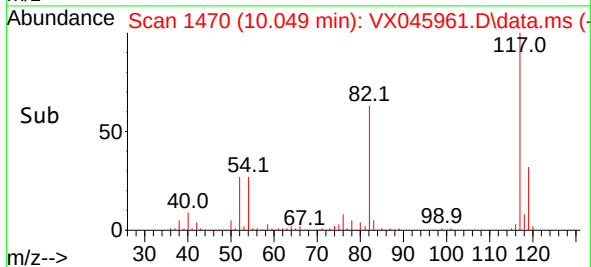
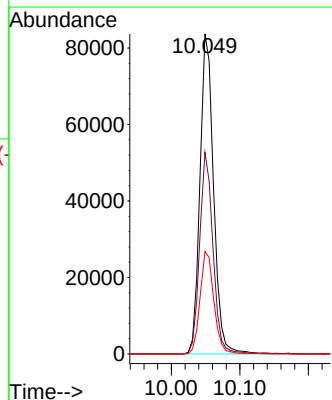
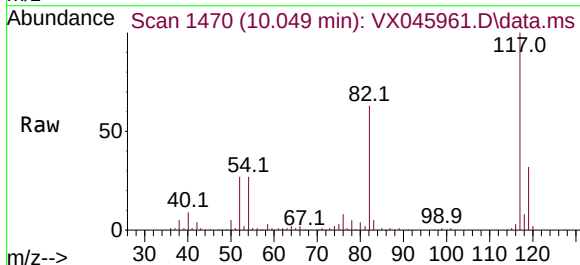
Instrument :
MSVOA_X
ClientSampleId :
MH-U2

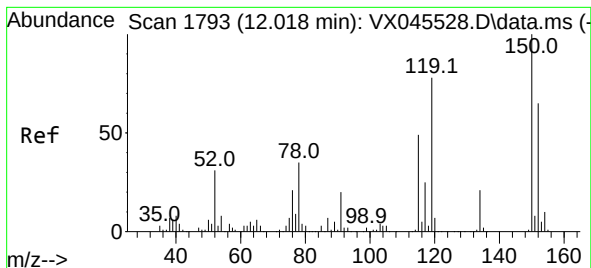
Tgt Ion: 95 Resp: 56247
Ion Ratio Lower Upper
95 100
174 68.8 0.0 135.8
176 65.3 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045961.D
Acq: 28 Apr 2025 16:59

Tgt Ion: 117 Resp: 116276
Ion Ratio Lower Upper
117 100
82 63.0 49.2 73.8
119 32.0 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045961.D

Acq: 28 Apr 2025 16:59

Instrument :

MSVOA_X

ClientSampleId :

MH-U2

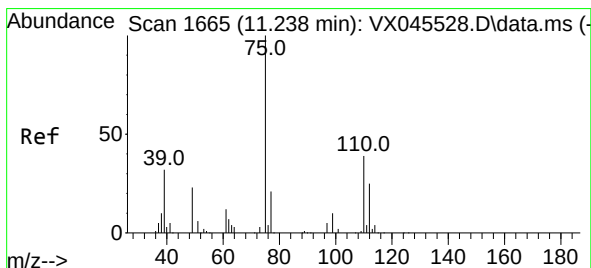
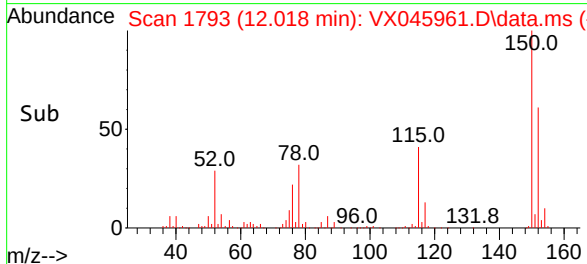
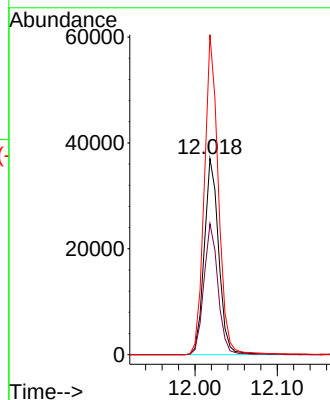
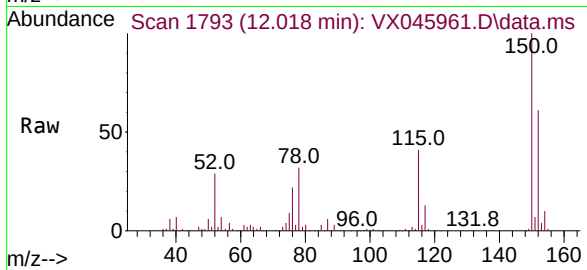
Tgt Ion:152 Resp: 45281

Ion Ratio Lower Upper

152 100

115 65.7 46.9 140.7

150 159.1 0.0 349.4



#76

1,2,3-Trichloropropane

Concen: 30.499 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX045961.D

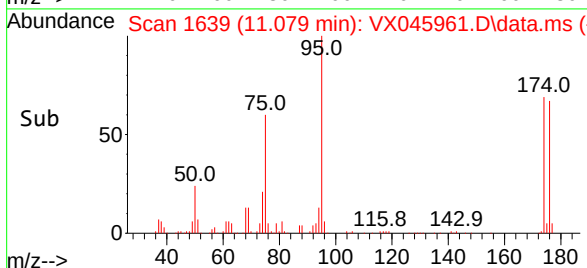
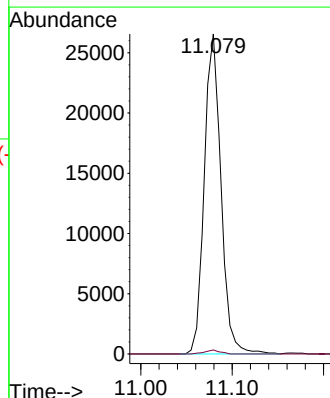
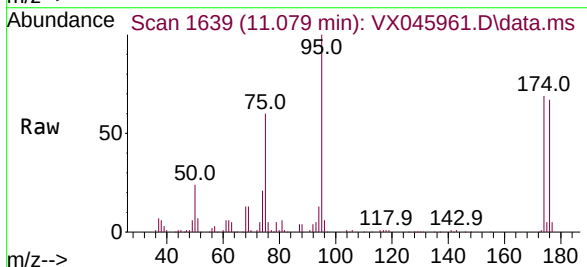
Acq: 28 Apr 2025 16:59

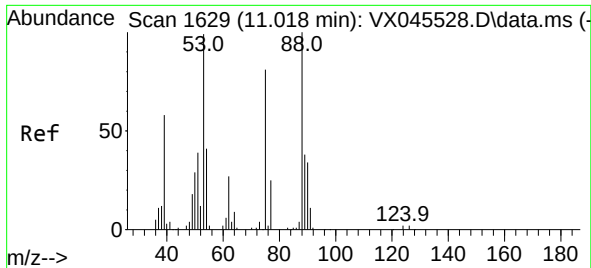
Tgt Ion: 75 Resp: 33686

Ion Ratio Lower Upper

75 100

77 1.1 20.0 59.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 103.508 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045961.D
 Acq: 28 Apr 2025 16:59

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-U2

Tgt Ion: 75 Resp: 33686
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 37.2 55.8#

