

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
 Data File : VX046695.D
 Acq On : 13 Jun 2025 17:24
 Operator : JC/MD
 Sample : Q2296-20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-5

Quant Time: Jun 13 23:33:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

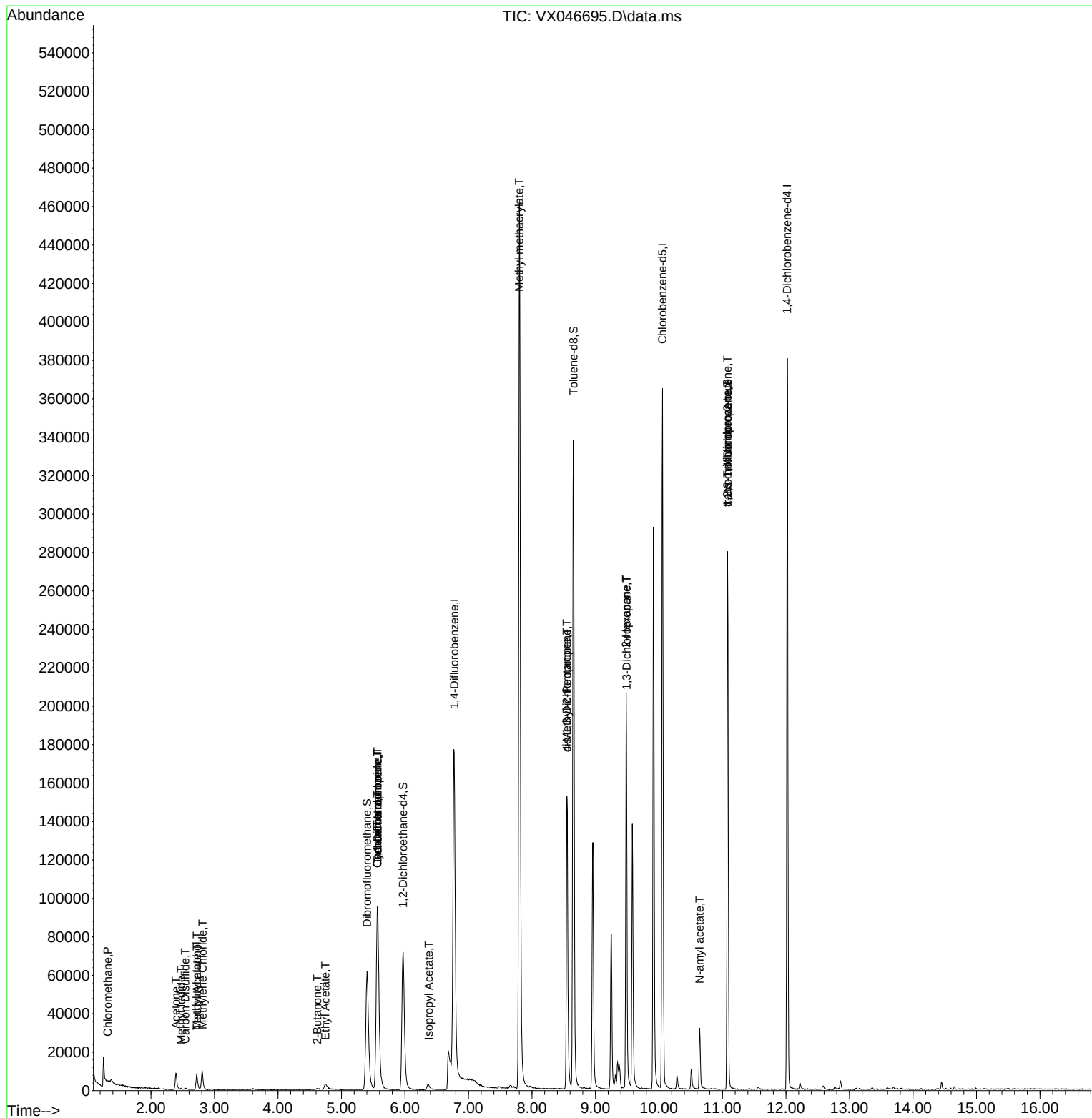
Internal Standards						
1) Pentafluorobenzene	5.568	168	92543	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	173187	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	151643	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73615	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	76977	46.754	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.500%
35) Dibromofluoromethane	5.404	113	56790	44.590	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.180%
50) Toluene-d8	8.653	98	201537	47.997	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.000%
62) 4-Bromofluorobenzene	11.079	95	77111	44.386	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	88.780%
Target Compounds						
					Qvalue	
3) Chloromethane	1.319	50	252	0.215	ug/l #	43
10) Methyl Iodide	2.477	142	471	0.358	ug/l #	78
11) Tert butyl alcohol	2.721	59	828	4.532	ug/l #	72
16) Acetone	2.392	43	11094	21.438	ug/l	96
17) Carbon Disulfide	2.538	76	485	0.409	ug/l #	76
18) Methyl Acetate	2.721	43	11014	5.616	ug/l	97
20) Methylene Chloride	2.813	84	4359	3.300	ug/l #	83
25) 2-Butanone	4.617	43	977	1.066	ug/l	96
31) Cyclohexane	5.562	56	2454	1.282	ug/l #	46
36) 1,1-Dichloropropene	5.568	75	8220	4.518	ug/l #	49
37) Ethyl Acetate	4.745	43	5756	3.242	ug/l #	90
38) Carbon Tetrachloride	5.562	117	10530	5.168	ug/l #	17
43) Isopropyl Acetate	6.373	43	4779	1.544	ug/l #	93
48) Methyl methacrylate	7.799	41	45797	28.755	ug/l #	47
51) 4-Methyl-2-Pentanone	8.549	43	57300	29.130	ug/l #	50
54) cis-1,3-Dichloropropene	8.549	75	25147	12.336	ug/l #	56
57) 1,3-Dichloropropane	9.488	76	1721	0.771	ug/l #	42
59) 2-Hexanone	9.482	43	26510	18.792	ug/l #	55
74) N-amyl acetate	10.640	43	8657	3.397	ug/l #	55
76) 1,2,3-Trichloropropane	11.079	75	40920	26.243	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	40920	75.702	ug/l #	1

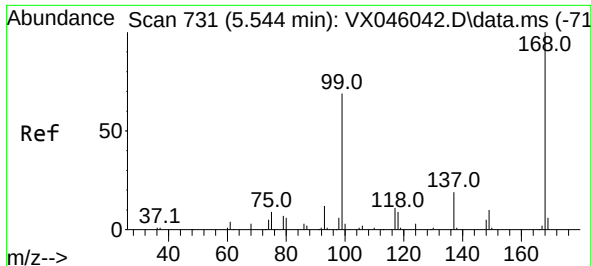
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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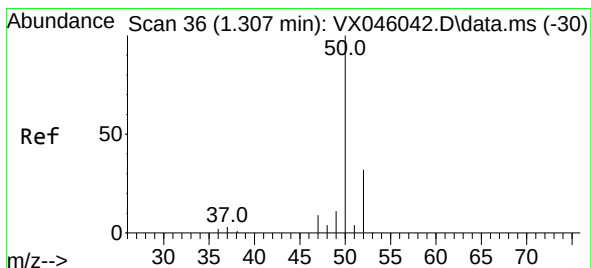
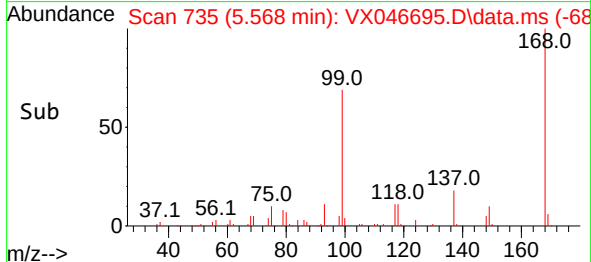
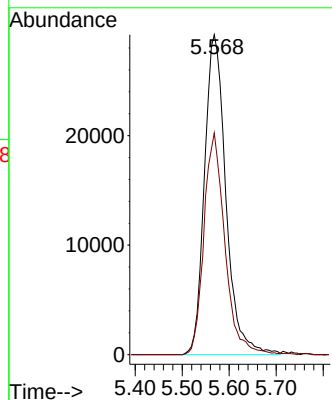
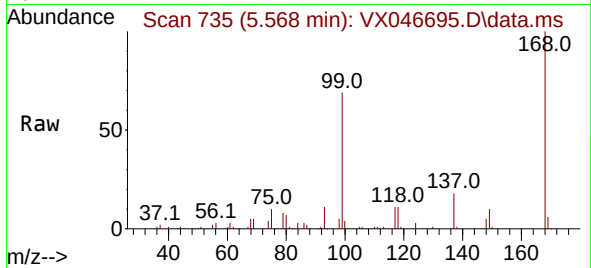




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

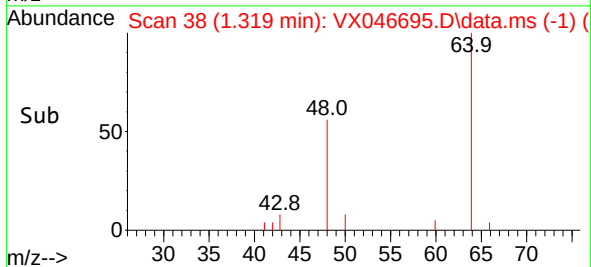
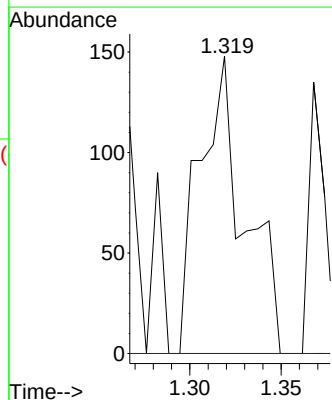
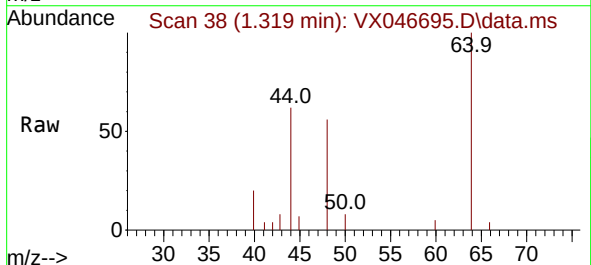
Instrument :
MSVOA_X
ClientSampleId :
WC-5

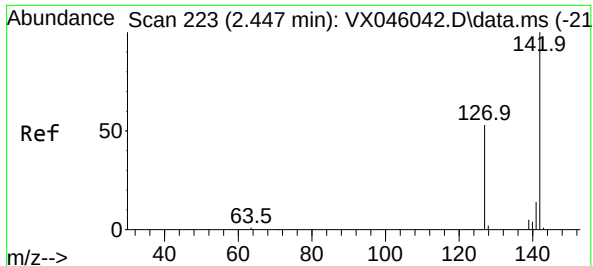
Tgt Ion:168 Resp: 92543
Ion Ratio Lower Upper
168 100
99 69.3 54.9 82.3



#3
Chloromethane
Concen: 0.215 ug/l
RT: 1.319 min Scan# 38
Delta R.T. 0.012 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

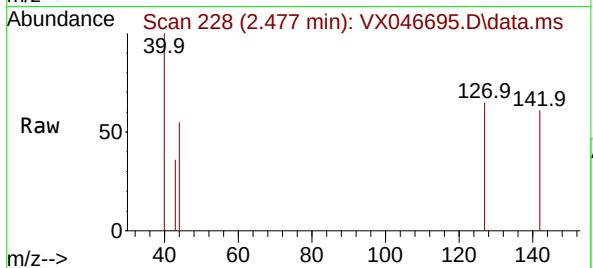
Tgt Ion: 50 Resp: 252
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#



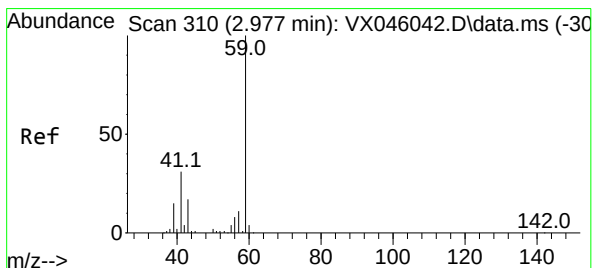
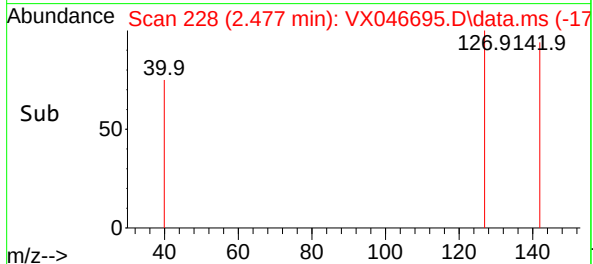
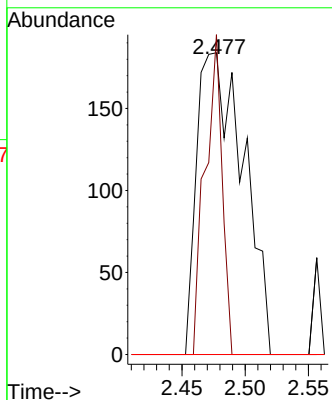


#10
Methyl Iodide
Concen: 0.358 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Instrument :
MSVOA_X
ClientSampleId :
WC-5

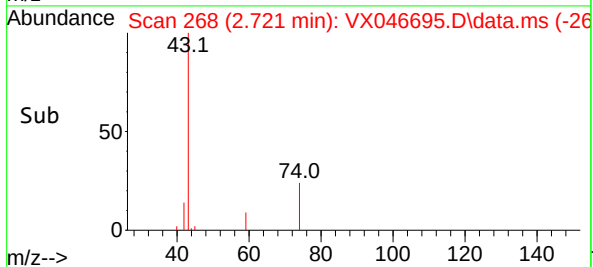
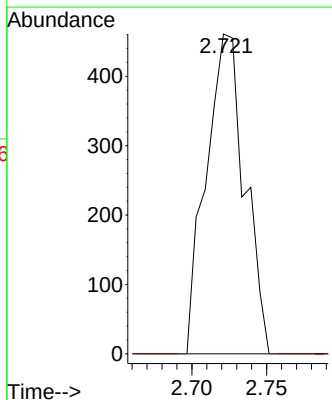
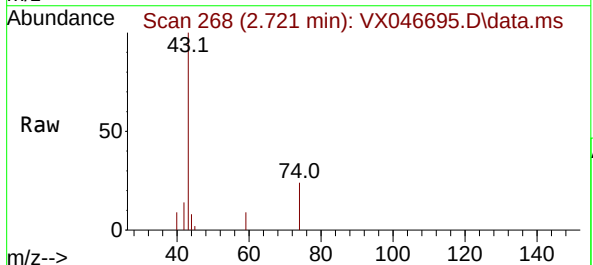


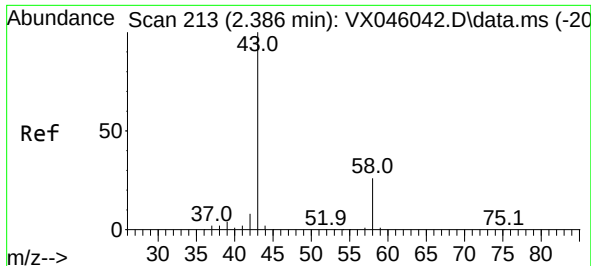
Tgt Ion:142 Resp: 471
Ion Ratio Lower Upper
142 100
127 38.9 41.7 62.5#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 4.532 ug/l
RT: 2.721 min Scan# 268
Delta R.T. -0.250 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion: 59 Resp: 828
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

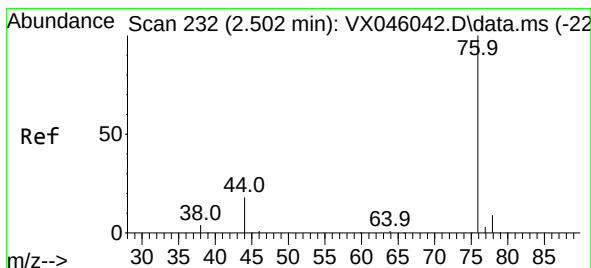
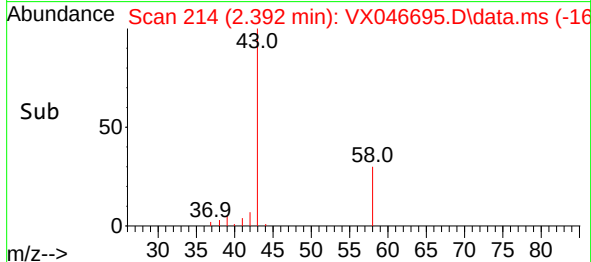
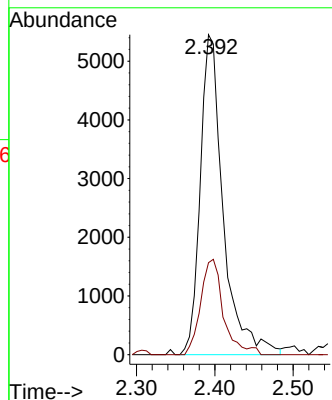
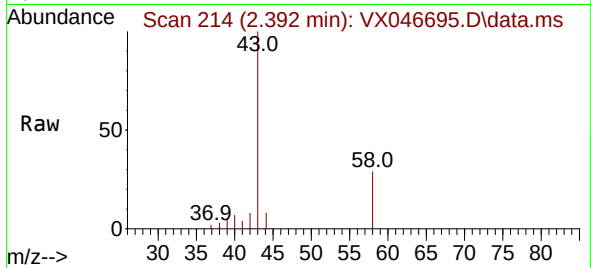




#16
Acetone
Concen: 21.438 ug/l
RT: 2.392 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

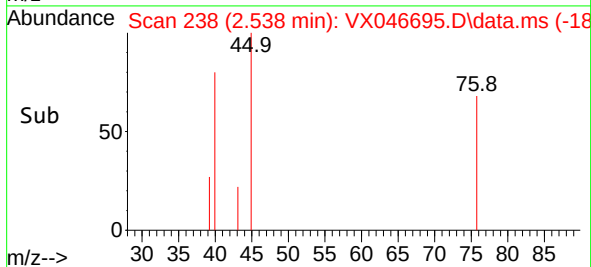
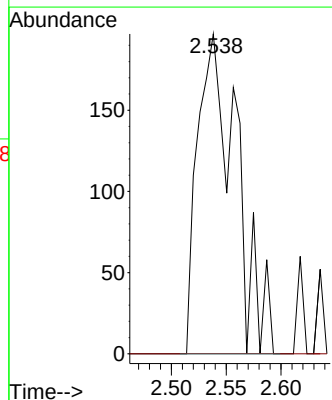
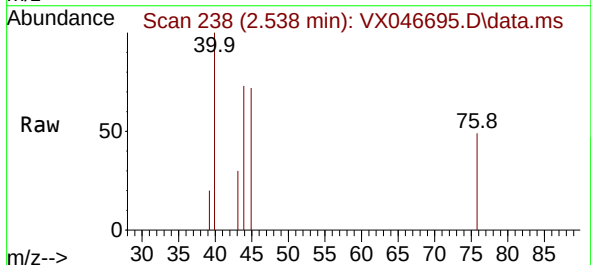
Instrument :
MSVOA_X
ClientSampleId :
WC-5

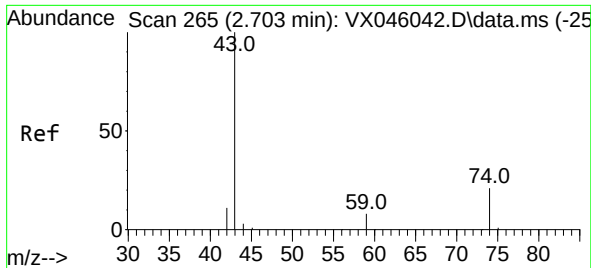
Tgt Ion: 43 Resp: 11094
Ion Ratio Lower Upper
43 100
58 28.7 21.2 31.8



#17
Carbon Disulfide
Concen: 0.409 ug/l
RT: 2.538 min Scan# 238
Delta R.T. 0.006 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion: 76 Resp: 485
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#





#18

Methyl Acetate

Concen: 5.616 ug/l

RT: 2.721 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

Instrument :

MSVOA_X

ClientSampleId :

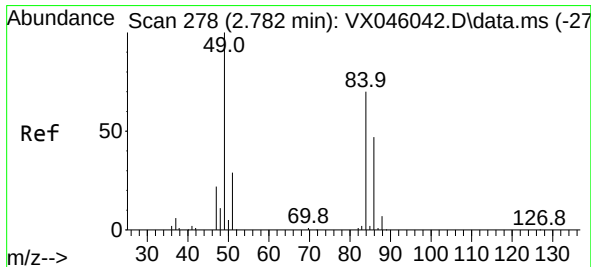
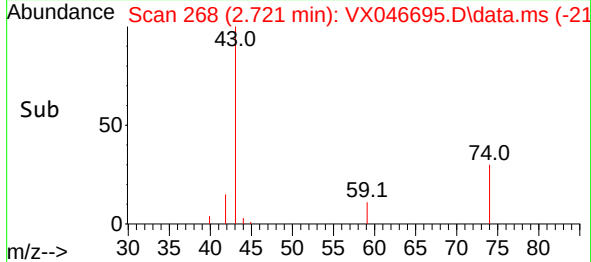
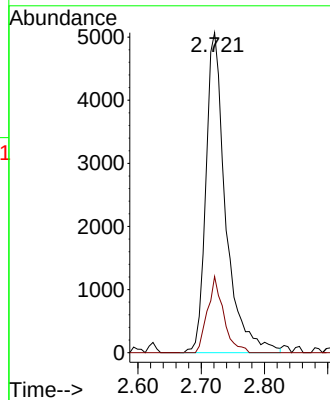
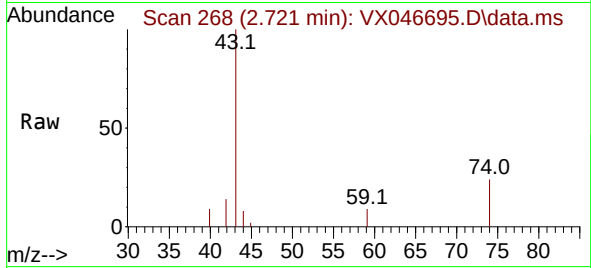
WC-5

Tgt Ion: 43 Resp: 11014

Ion Ratio Lower Upper

43 100

74 19.5 16.7 25.1



#20

Methylene Chloride

Concen: 3.300 ug/l

RT: 2.813 min Scan# 283

Delta R.T. 0.007 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

Tgt Ion: 84 Resp: 4359

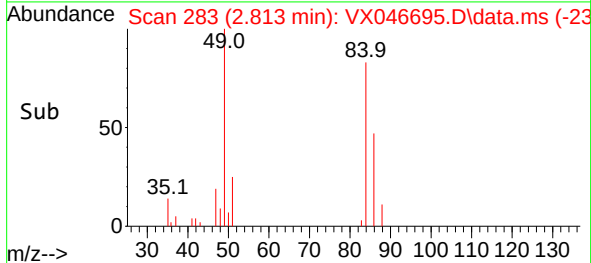
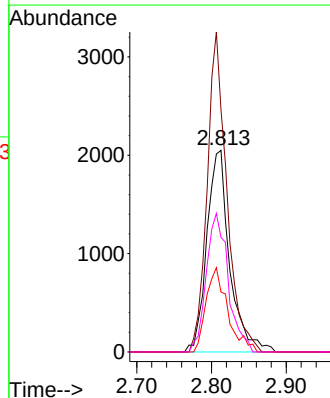
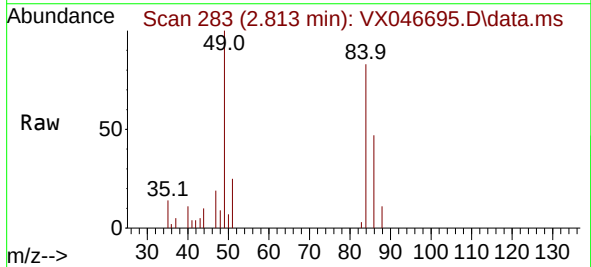
Ion Ratio Lower Upper

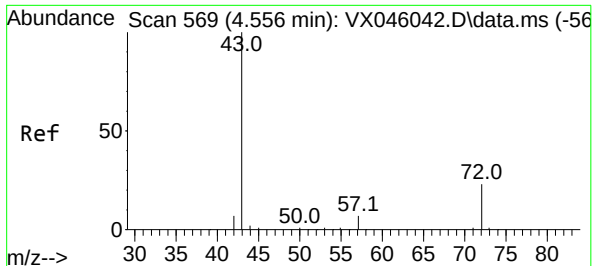
84 100

49 120.0 113.9 170.9

51 29.8 33.5 50.3#

86 56.8 53.8 80.8

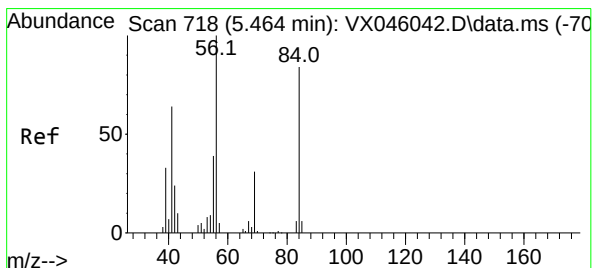
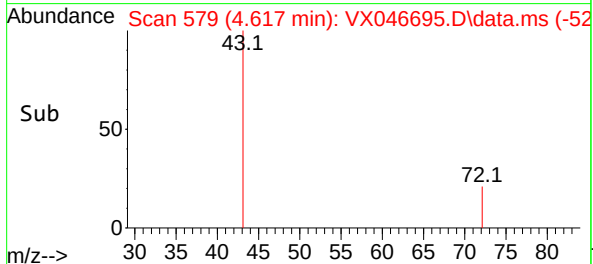
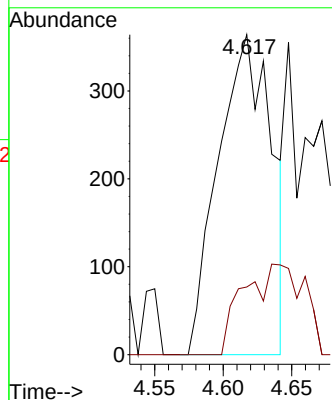
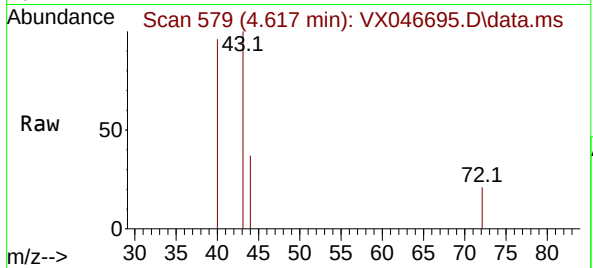




#25
2-Butanone
Concen: 1.066 ug/l
RT: 4.617 min Scan# 51
Delta R.T. 0.043 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

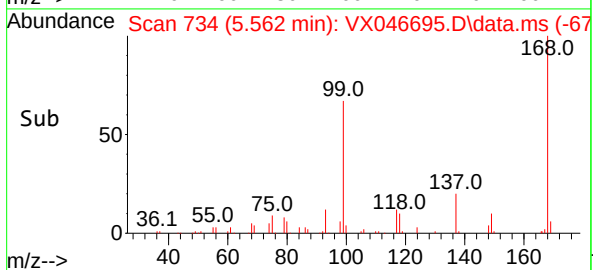
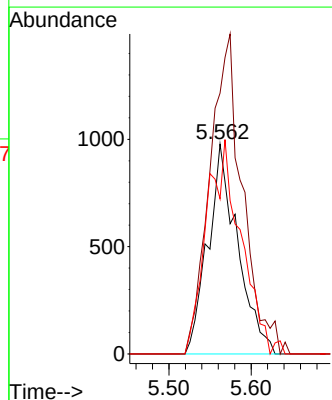
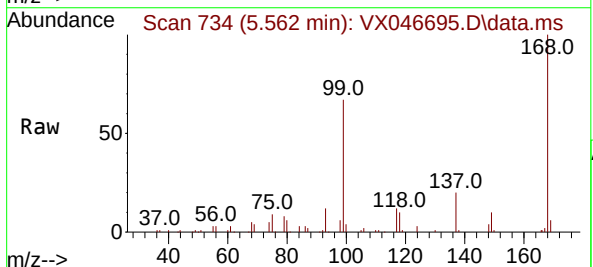
Instrument :
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ClientSampleId :
WC-5

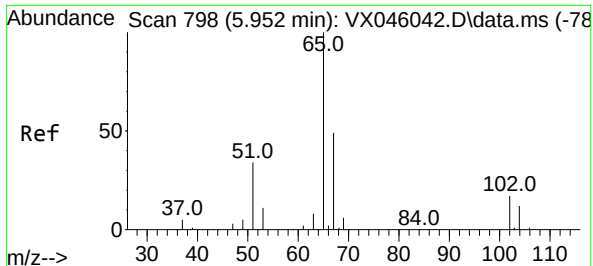
Tgt Ion: 43 Resp: 977
Ion Ratio Lower Upper
43 100
72 21.2 18.4 27.6



#31
Cyclohexane
Concen: 1.282 ug/l
RT: 5.562 min Scan# 734
Delta R.T. 0.073 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion: 56 Resp: 2454
Ion Ratio Lower Upper
56 100
69 124.2 24.4 36.6#
84 73.9 66.9 100.3





#33

1,2-Dichloroethane-d4

Concen: 46.754 ug/l

RT: 5.971 min Scan# 801

Delta R.T. 0.001 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

Instrument :

MSVOA_X

ClientSampleId :

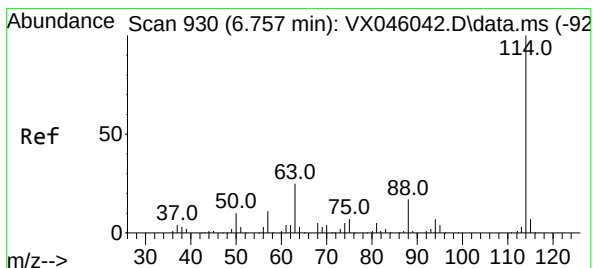
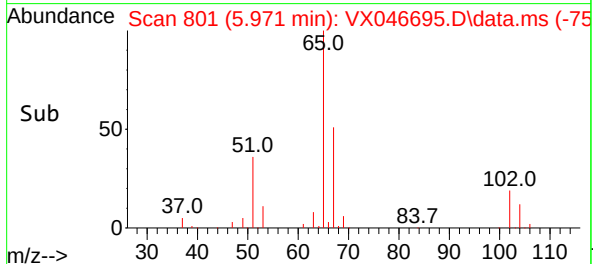
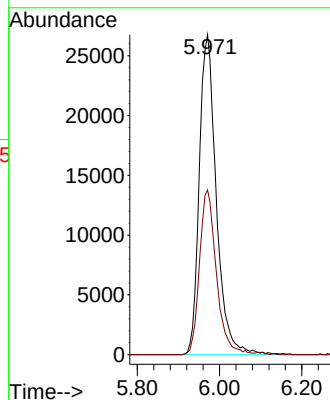
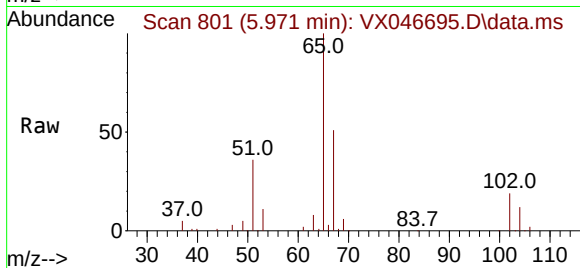
WC-5

Tgt Ion: 65 Resp: 76977

Ion Ratio Lower Upper

65 100

67 51.0 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

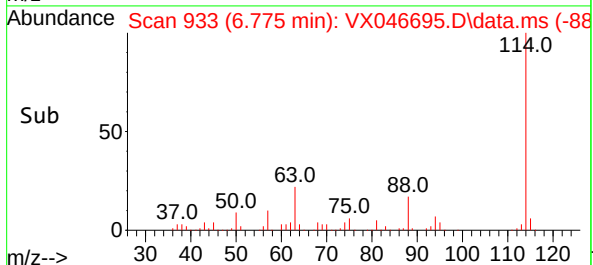
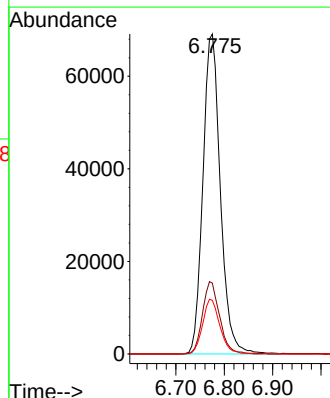
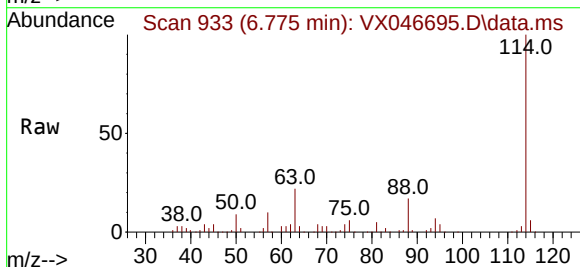
Tgt Ion: 114 Resp: 173187

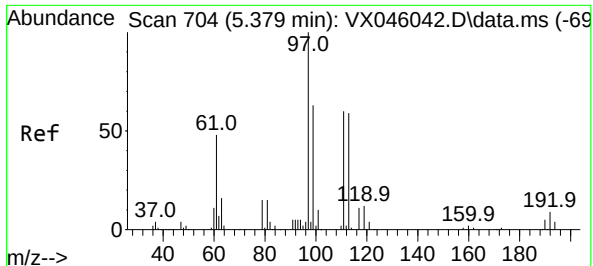
Ion Ratio Lower Upper

114 100

63 22.1 0.0 49.2

88 16.8 0.0 33.6

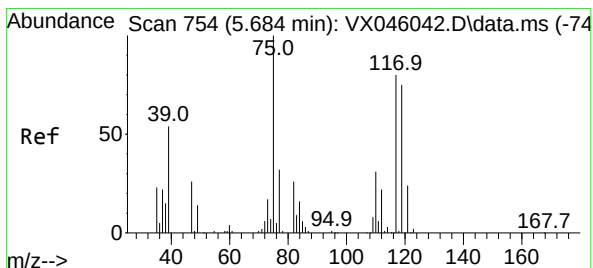
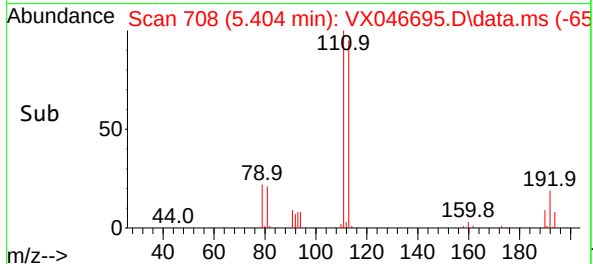
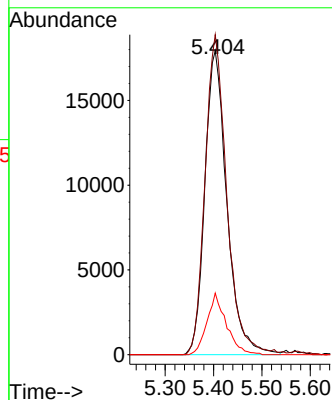
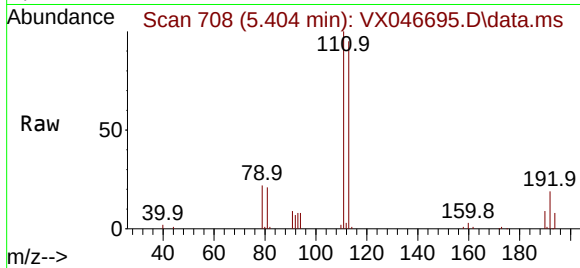




#35
Dibromofluoromethane
Concen: 44.590 ug/l
RT: 5.404 min Scan# 704
Delta R.T. 0.001 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

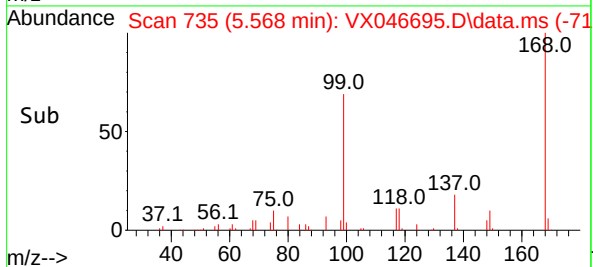
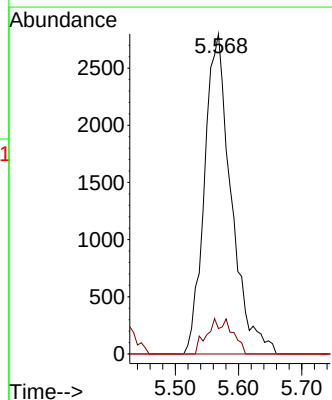
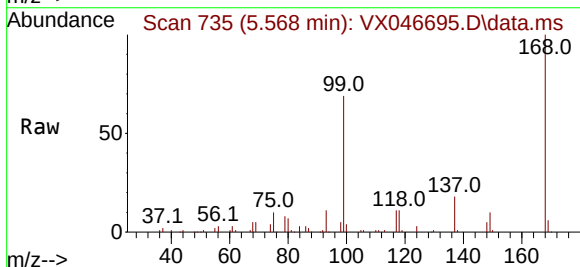
Instrument :
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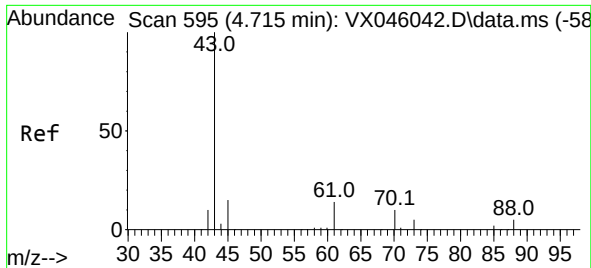
Tgt Ion:113 Resp: 56790
Ion Ratio Lower Upper
113 100
111 104.0 83.1 124.7
192 17.8 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.518 ug/l
RT: 5.568 min Scan# 735
Delta R.T. -0.146 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion: 75 Resp: 8220
Ion Ratio Lower Upper
75 100
110 6.3 16.3 48.9#
77 0.0 24.3 36.5#

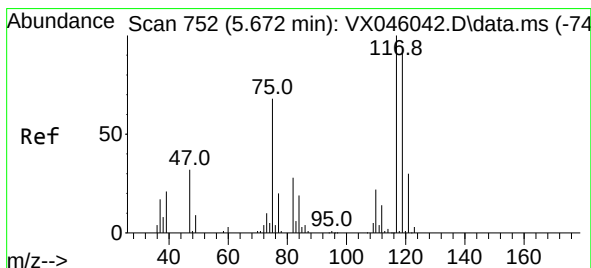
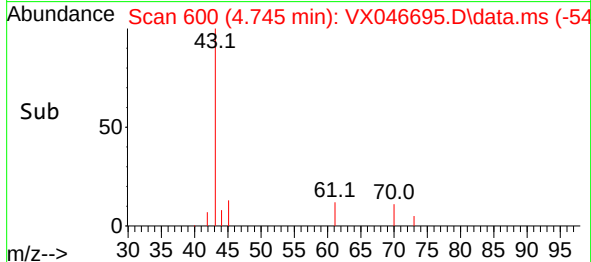
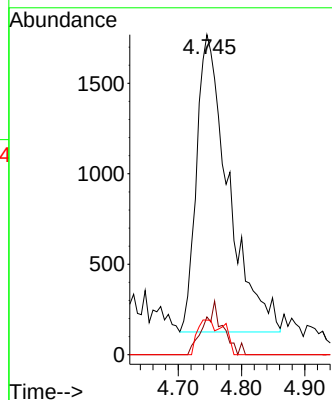
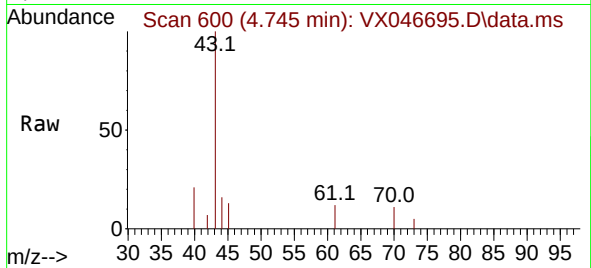




#37
Ethyl Acetate
Concen: 3.242 ug/l
RT: 4.745 min Scan# 60
Delta R.T. 0.012 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

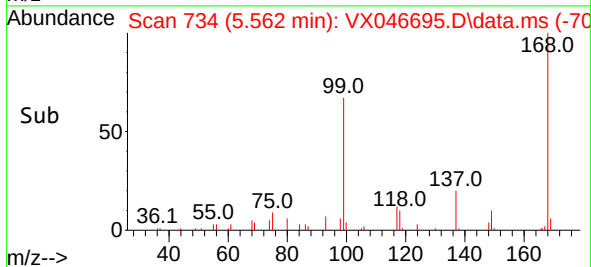
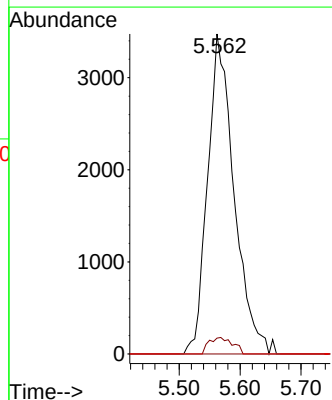
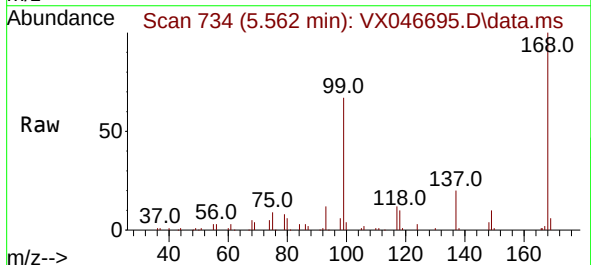
Instrument :
MSVOA_X
ClientSampleId :
WC-5

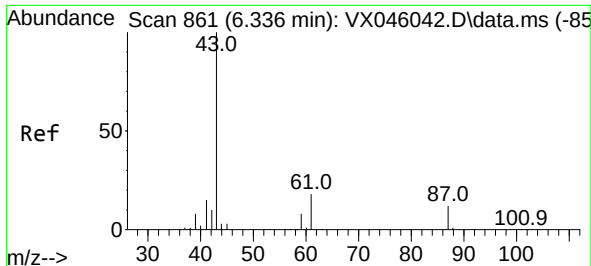
Tgt Ion: 43 Resp: 5756
Ion Ratio Lower Upper
43 100
61 10.9 10.3 15.5
70 4.1 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 5.168 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.134 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion: 117 Resp: 10530
Ion Ratio Lower Upper
117 100
119 4.9 75.2 112.8#
121 0.0 24.2 36.4#

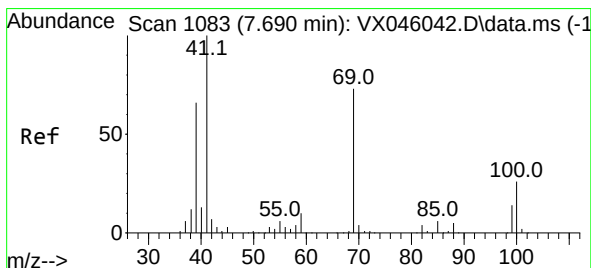
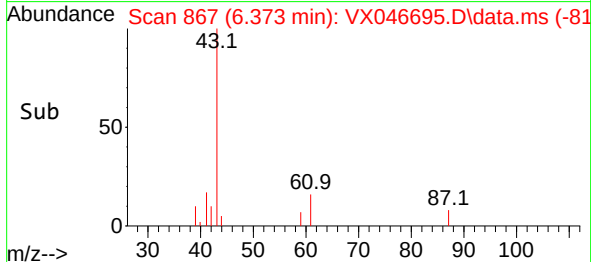
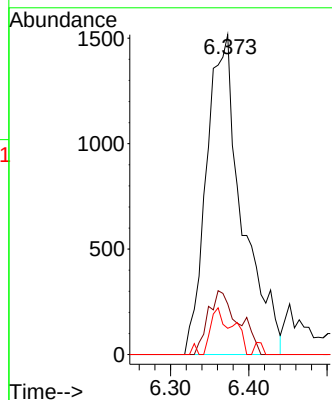
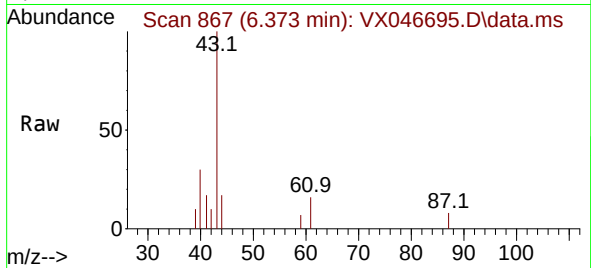




#43
Isopropyl Acetate
Concen: 1.544 ug/l
RT: 6.373 min Scan# 81
Delta R.T. 0.019 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

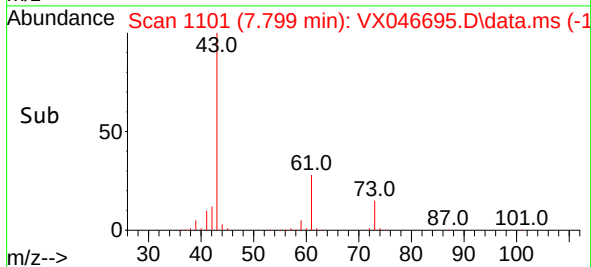
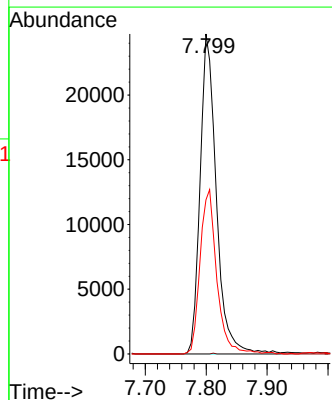
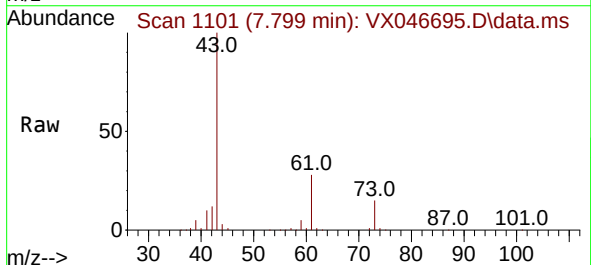
Instrument :
MSVOA_X
ClientSampleId :
WC-5

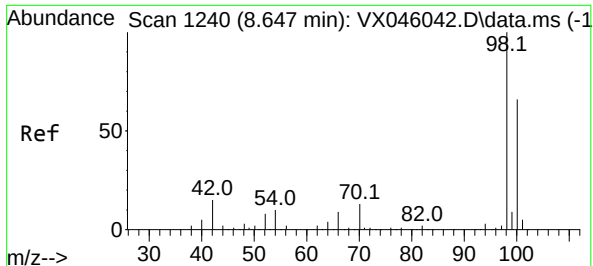
Tgt Ion: 43 Resp: 4779
Ion Ratio Lower Upper
43 100
61 17.0 14.3 21.5
87 5.9 9.5 14.3#



#48
Methyl methacrylate
Concen: 28.755 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.097 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion: 41 Resp: 45797
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 52.7 51.7 77.5





#50

Toluene-d8

Concen: 47.997 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

Instrument :

MSVOA_X

ClientSampleId :

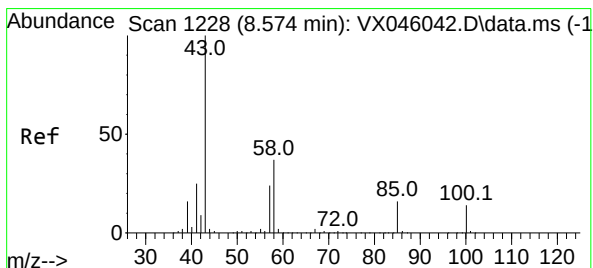
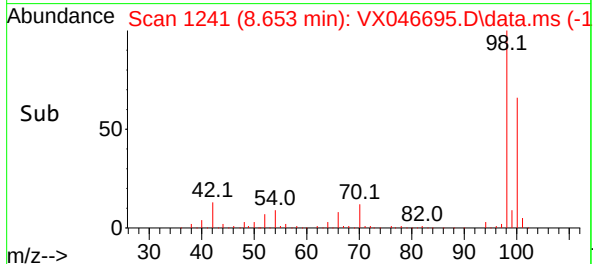
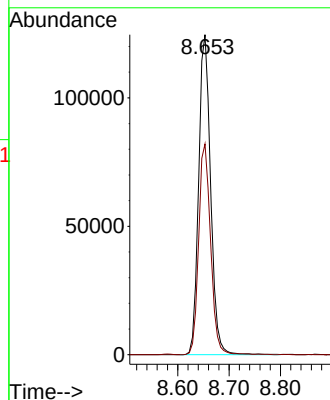
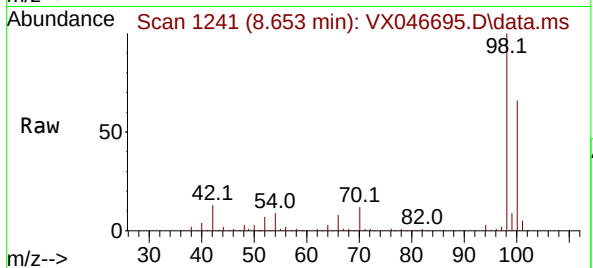
WC-5

Tgt Ion: 98 Resp: 201537

Ion Ratio Lower Upper

98 100

100 65.7 53.5 80.3



#51

4-Methyl-2-Pentanone

Concen: 29.130 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.024 min

Lab File: VX046695.D

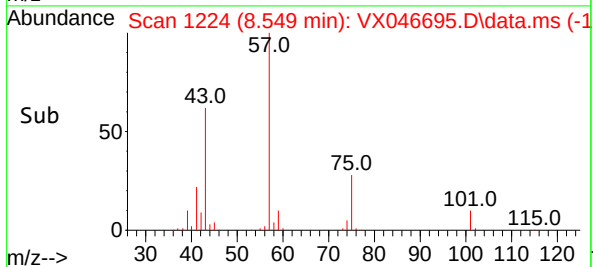
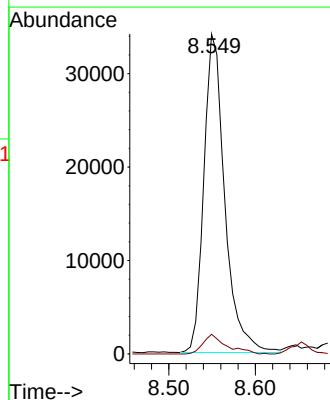
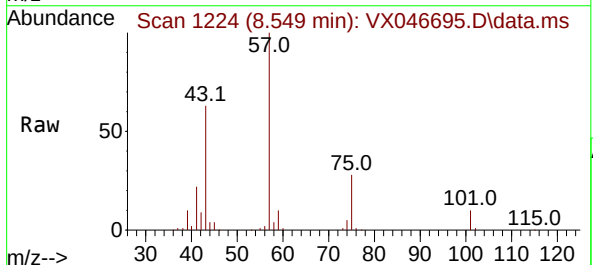
Acq: 13 Jun 2025 17:24

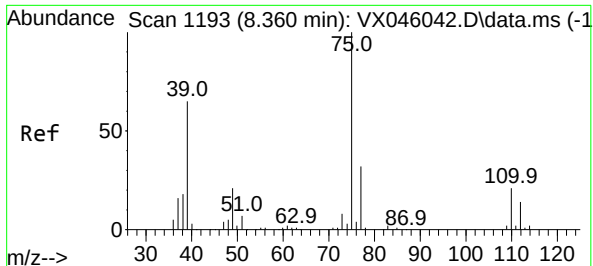
Tgt Ion: 43 Resp: 57300

Ion Ratio Lower Upper

43 100

58 6.8 28.9 43.3#





#54

cis-1,3-Dichloropropene

Concen: 12.336 ug/l

RT: 8.549 min Scan# 1193

Delta R.T. 0.177 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

Instrument :

MSVOA_X

ClientSampleId :

WC-5

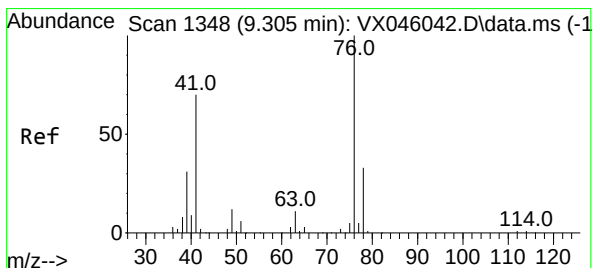
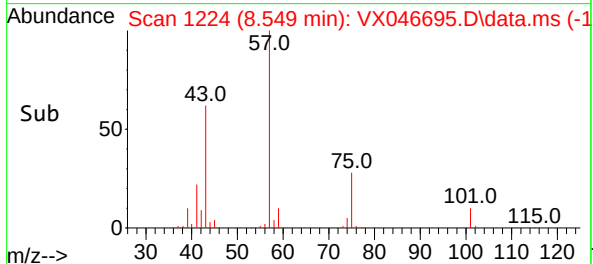
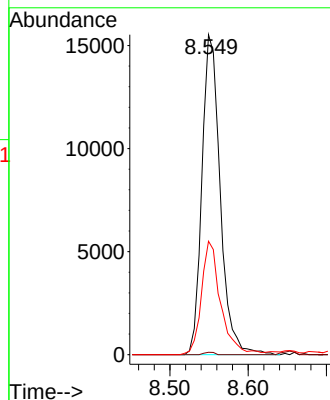
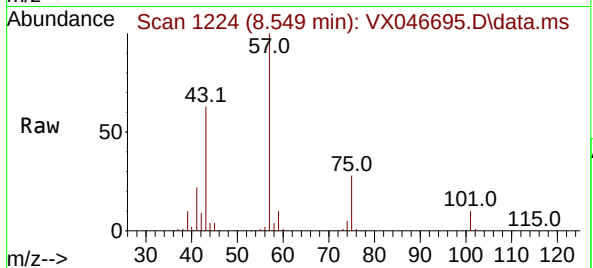
Tgt Ion: 75 Resp: 25147

Ion Ratio Lower Upper

75 100

77 0.8 25.4 38.0#

39 35.4 52.2 78.4#



#57

1,3-Dichloropropane

Concen: 0.771 ug/l

RT: 9.488 min Scan# 1378

Delta R.T. 0.177 min

Lab File: VX046695.D

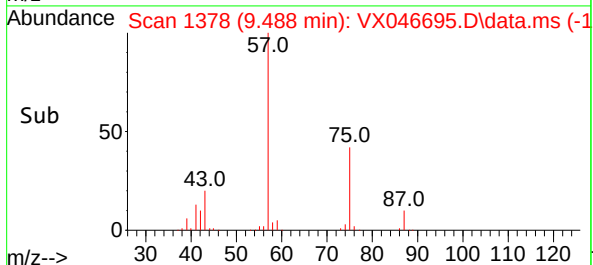
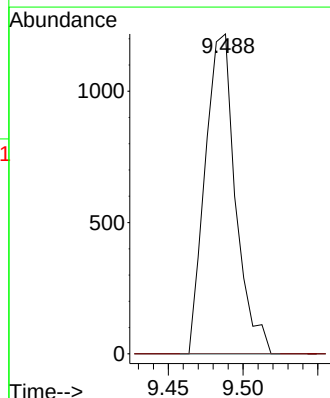
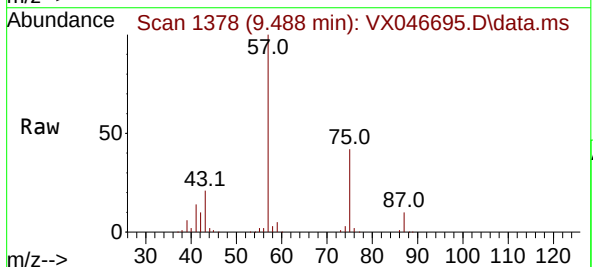
Acq: 13 Jun 2025 17:24

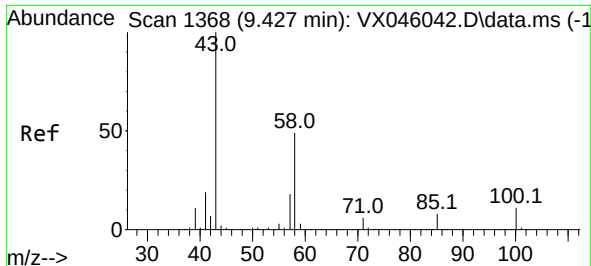
Tgt Ion: 76 Resp: 1721

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#





#59

2-Hexanone

Concen: 18.792 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

Instrument :

MSVOA_X

ClientSampleId :

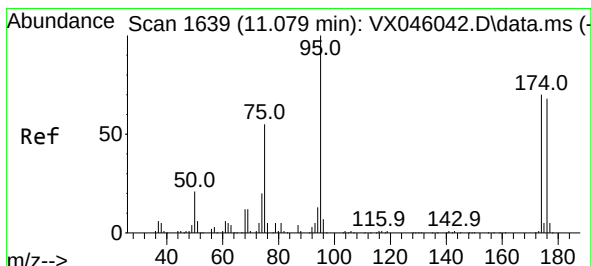
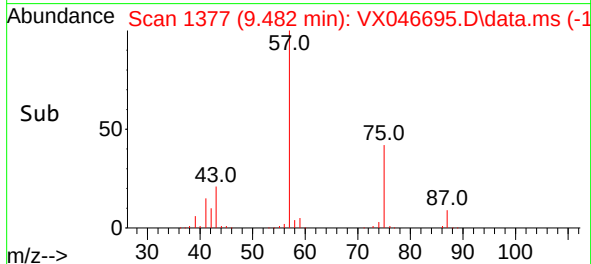
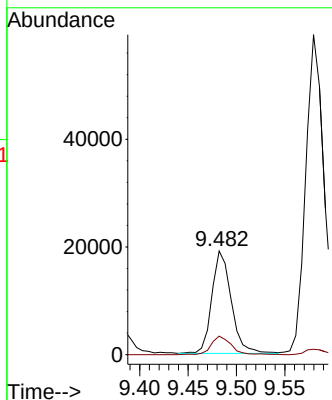
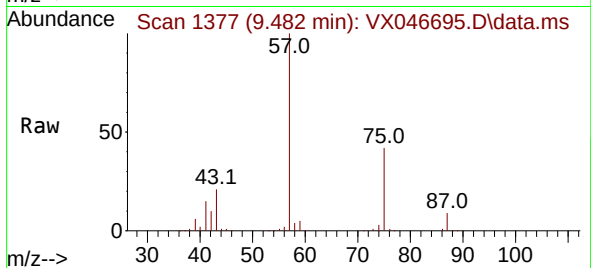
WC-5

Tgt Ion: 43 Resp: 26510

Ion Ratio Lower Upper

43 100

58 18.9 24.9 74.6#



#62

4-Bromofluorobenzene

Concen: 44.386 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046695.D

Acq: 13 Jun 2025 17:24

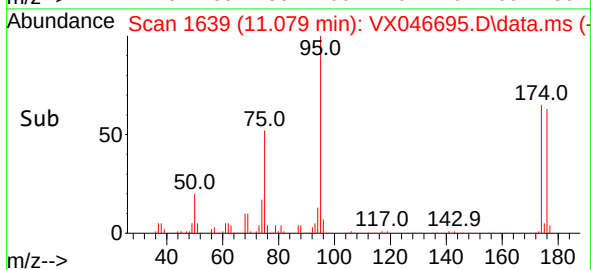
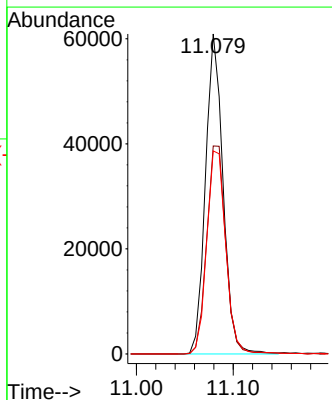
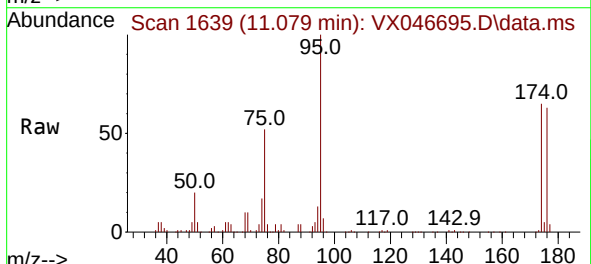
Tgt Ion: 95 Resp: 77111

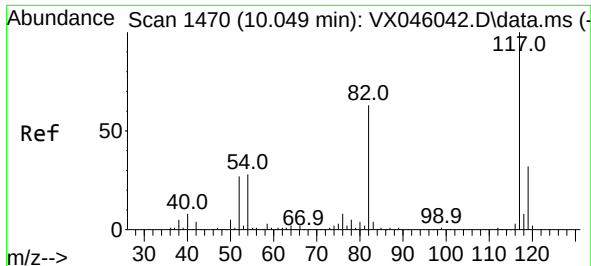
Ion Ratio Lower Upper

95 100

174 70.4 0.0 135.8

176 68.9 0.0 131.4

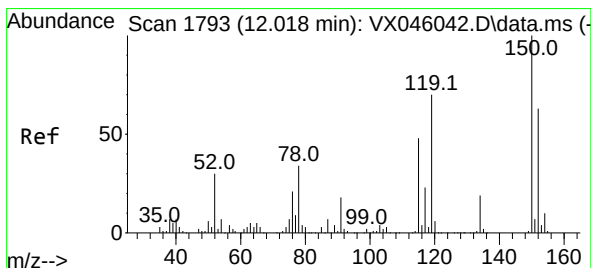
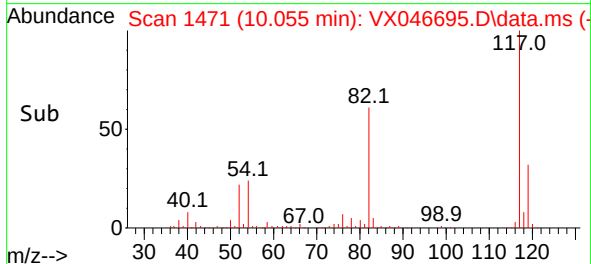
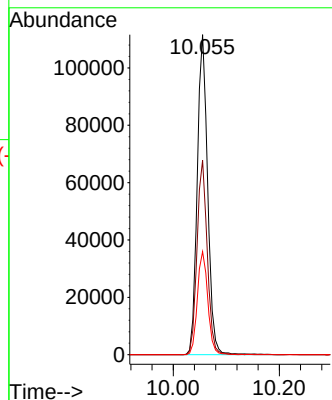
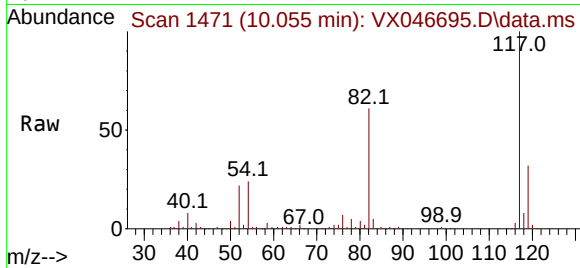




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

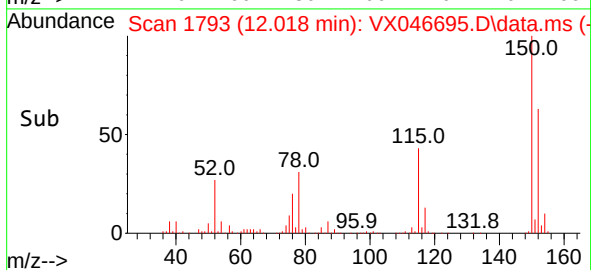
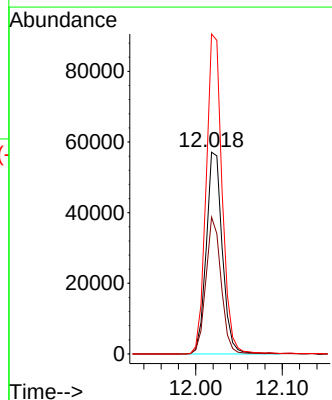
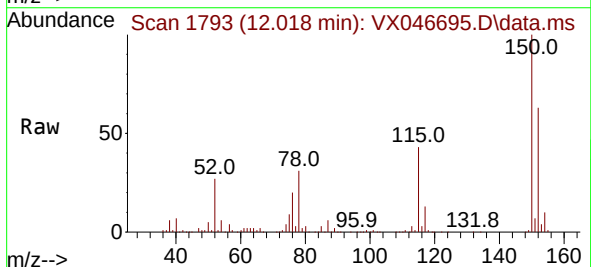
Instrument :
MSVOA_X
ClientSampleId :
WC-5

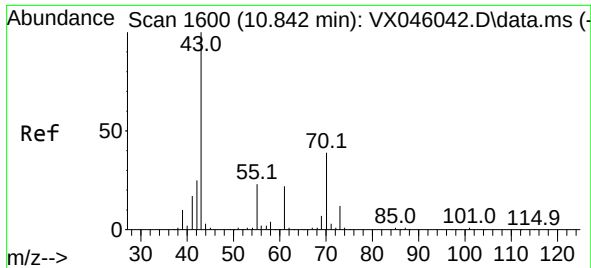
Tgt Ion:117 Resp: 151643
Ion Ratio Lower Upper
117 100
82 60.7 50.6 76.0
119 32.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion:152 Resp: 73615
Ion Ratio Lower Upper
152 100
115 64.4 46.9 140.7
150 157.6 0.0 351.0

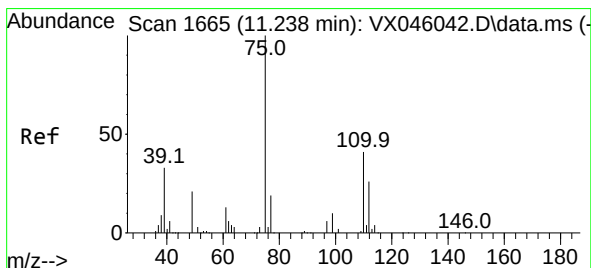
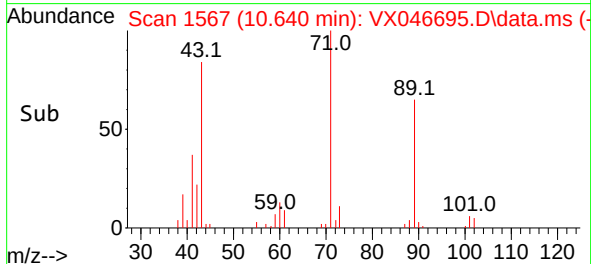
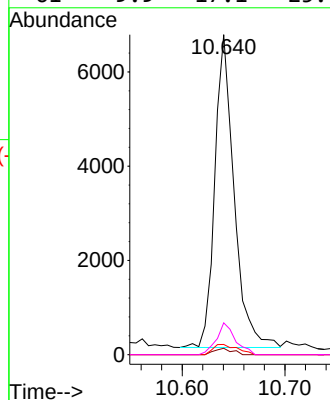
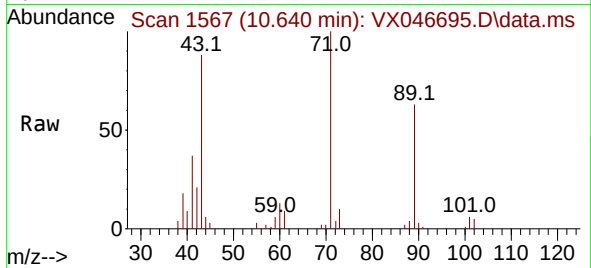




#74
N-amy1 acetate
Concen: 3.397 ug/l
RT: 10.640 min Scan# 1639
Delta R.T. -0.201 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

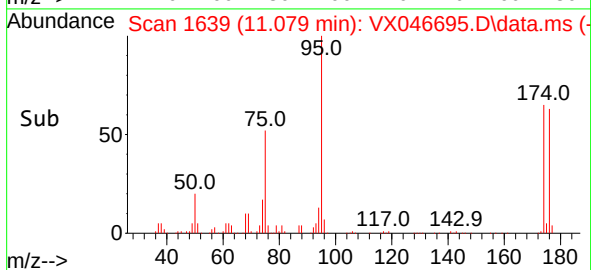
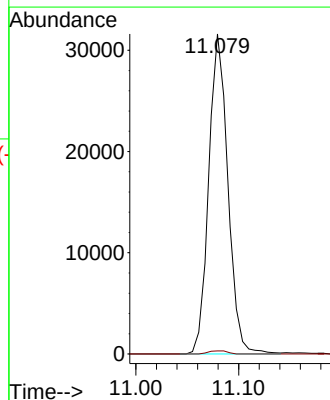
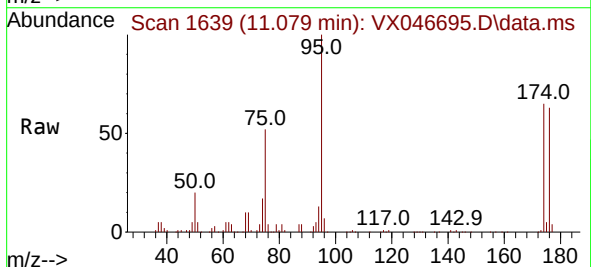
Instrument :
MSVOA_X
ClientSampleId :
WC-5

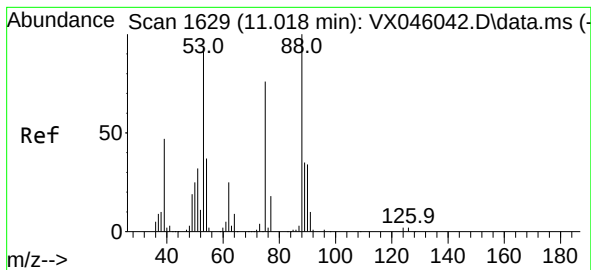
Tgt Ion: 43	Resp: 8657
Ion Ratio	Lower Upper
43	100
70	1.9 30.9 46.3#
55	4.1 18.7 28.1#
61	9.9 17.1 25.7#



#76
1,2,3-Trichloropropane
Concen: 26.243 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046695.D
Acq: 13 Jun 2025 17:24

Tgt Ion: 75	Resp: 40920
Ion Ratio	Lower Upper
75	100
77	1.0 20.5 61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.702 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046695.D
 Acq: 13 Jun 2025 17:24

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-5

Tgt Ion: 75 Resp: 40920
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.0 37.0 55.6#

