

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV038990.D
 Acq On : 21 Aug 2025 18:57
 Operator : SY/MD
 Sample : Q2929-04
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:36:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 04:15:04 2025
 Response via : Initial Calibration

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

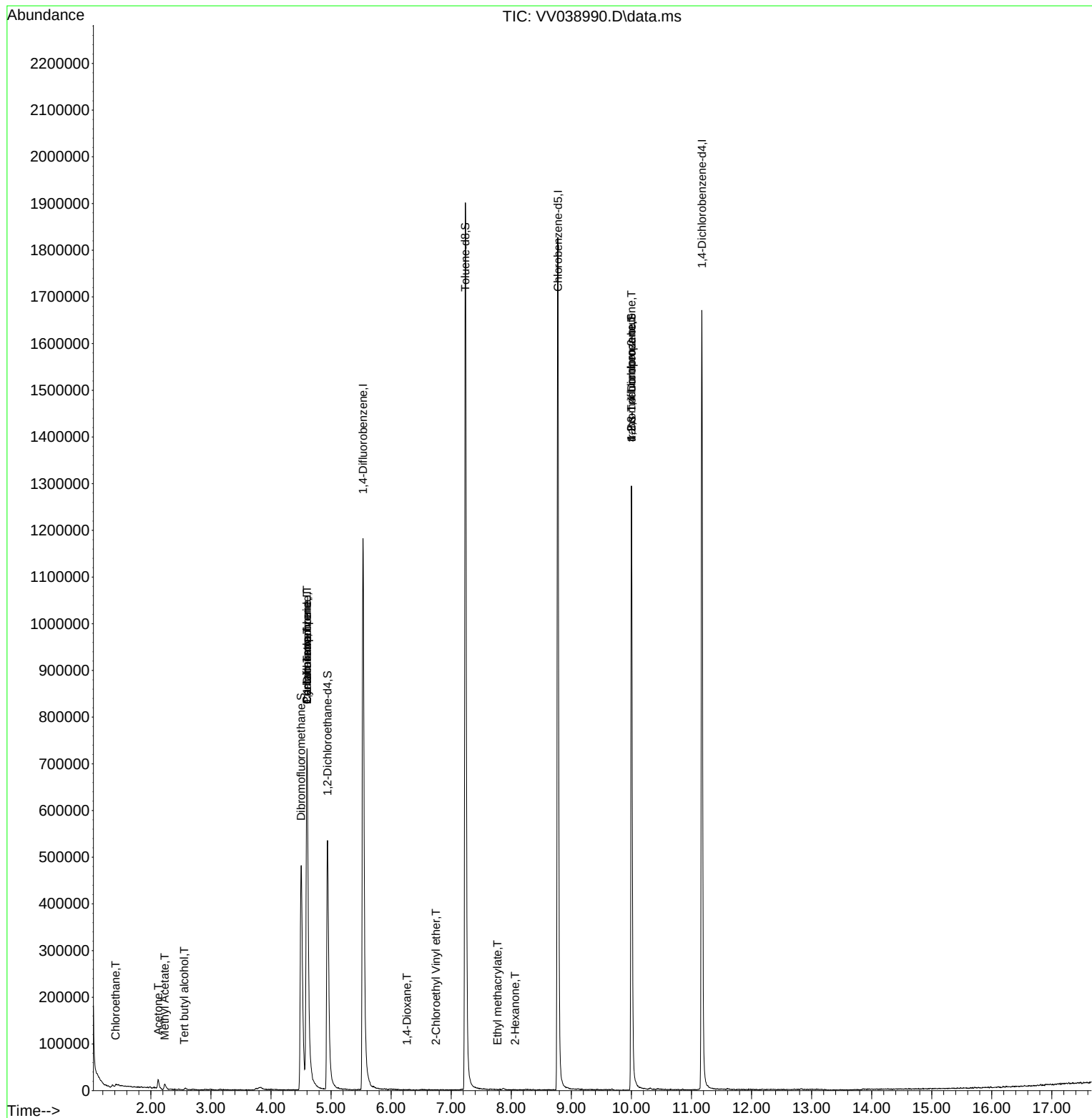
Internal Standards						
1) Pentafluorobenzene	4.600	168	627795	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1158287	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1037879	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	449449	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	477148	54.166	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 108.340%	
35) Dibromofluoromethane	4.503	113	404529	46.570	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 93.140%	
50) Toluene-d8	7.236	98	1352656	44.656	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 89.320%	
62) 4-Bromofluorobenzene	10.001	95	431386	38.930	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 77.860%#	
Target Compounds						
					Qvalue	
6) Chloroethane	1.413	64	10559	2.026	ug/l #	58
11) Tert butyl alcohol	2.558	59	275	0.231	ug/l #	73
13) Acrolein	2.011	56	164	Below Cal	#	79
16) Acetone	2.124	43	22733	6.430	ug/l	99
18) Methyl Acetate	2.230	43	3397	0.453	ug/l #	45
28) Bromochloromethane	4.108	49	19	Below Cal	#	3
31) Cyclohexane	4.600	56	12913	1.046	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	52815	4.682	ug/l #	47
38) Carbon Tetrachloride	4.600	117	66265	4.386	ug/l #	18
49) 1,4-Dioxane	6.262	88	45	0.357	ug/l #	1
56) Ethyl methacrylate	7.770	69	20	2.317	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.747	63	74	4.995	ug/l #	43
59) 2-Hexanone	8.062	43	160	10.911	ug/l #	21
76) 1,2,3-Trichloropropane	10.001	75	219094	26.281	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	219094	60.338	ug/l #	14

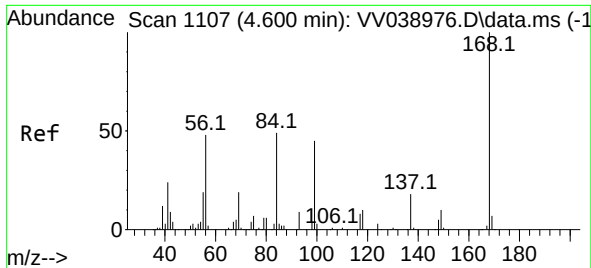
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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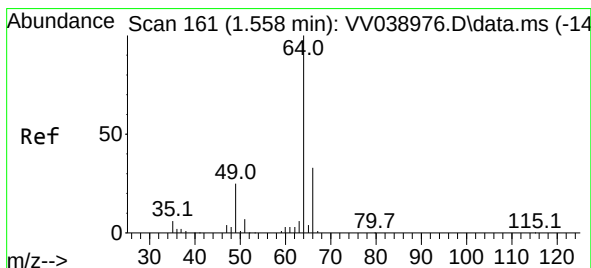
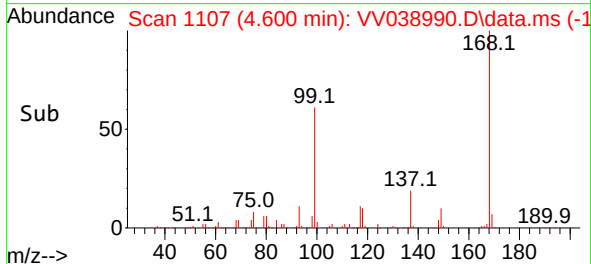
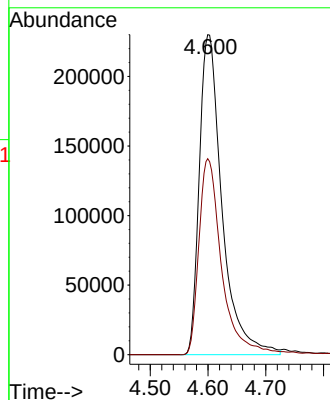
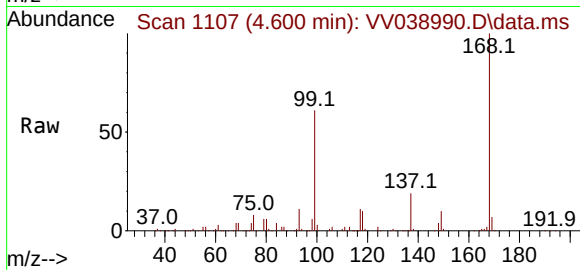




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

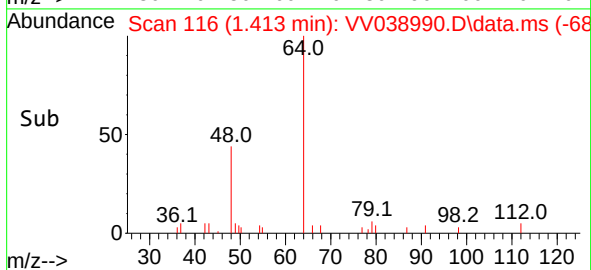
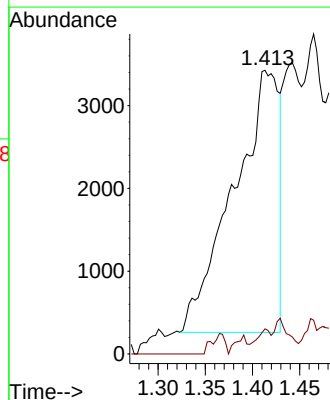
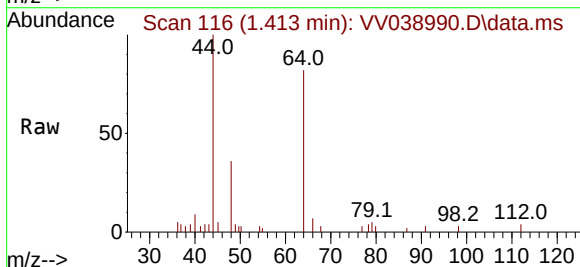
Instrument :
MSVOA_V
ClientSampleId :

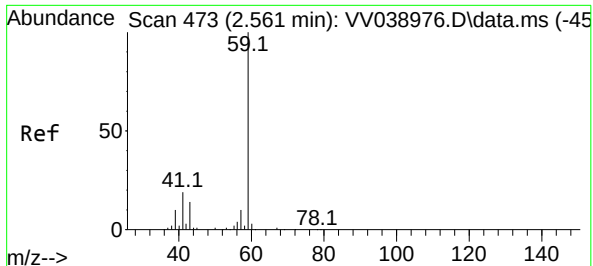
Tgt Ion:168 Resp: 627795
Ion Ratio Lower Upper
168 100
99 61.2 47.0 70.6



#6
Chloroethane
Concen: 2.026 ug/l
RT: 1.413 min Scan# 116
Delta R.T. -0.145 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Tgt Ion: 64 Resp: 10559
Ion Ratio Lower Upper
64 100
66 9.6 26.8 40.2#

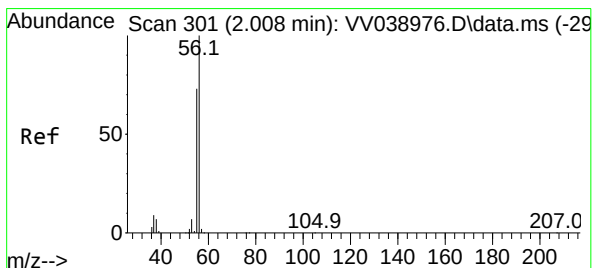
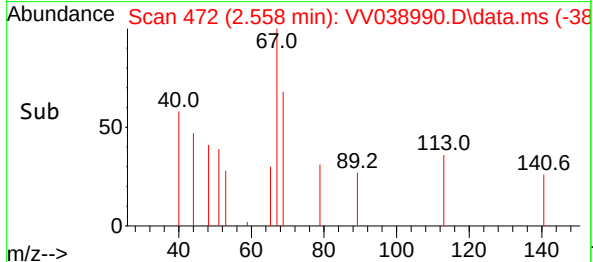
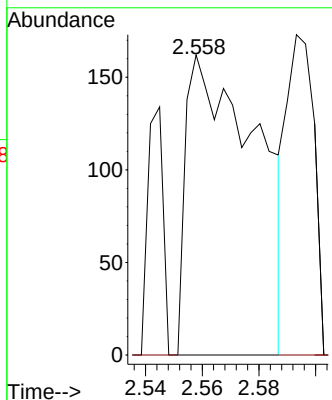
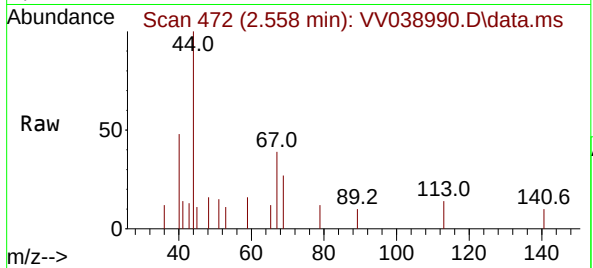




#11
Tert butyl alcohol
Concen: 0.231 ug/l
RT: 2.558 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

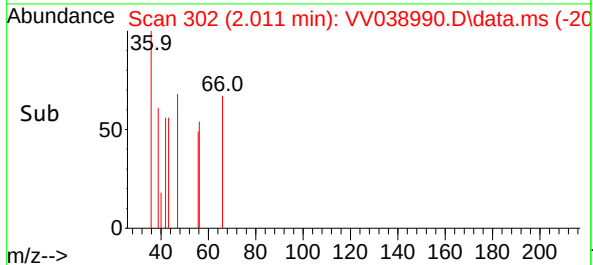
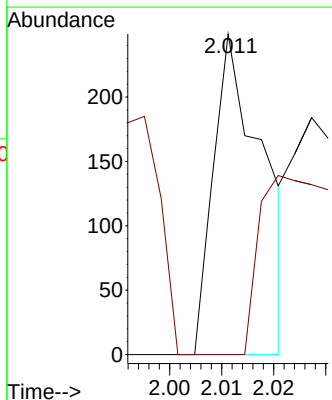
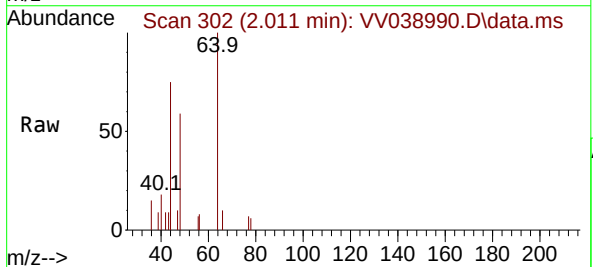
Instrument :
MSVOA_V
ClientSampleId :

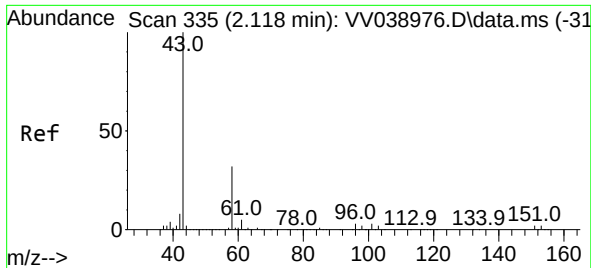
Tgt Ion: 59 Resp: 275
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.011 min Scan# 302
Delta R.T. 0.003 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Tgt Ion: 56 Resp: 164
Ion Ratio Lower Upper
56 100
55 90.9 58.8 88.2#

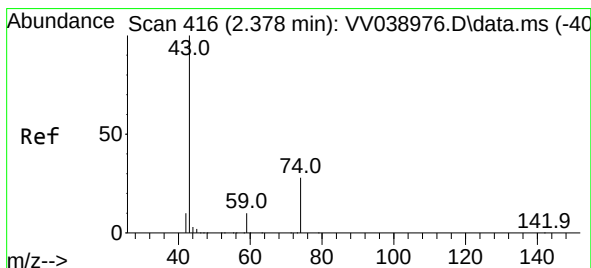
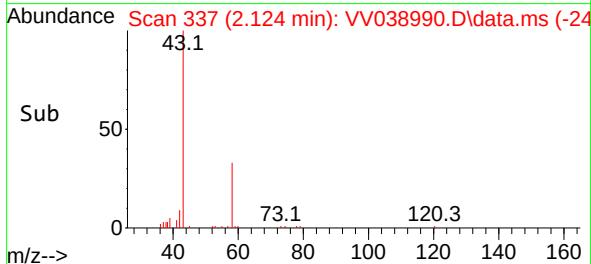
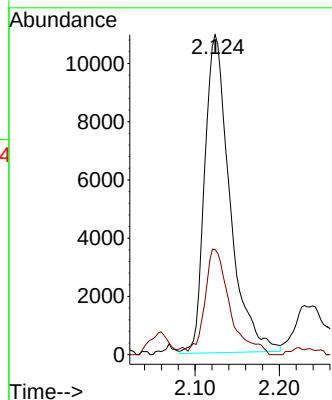
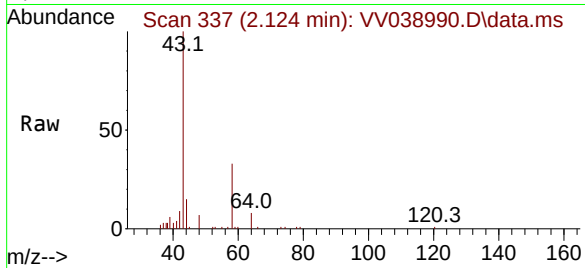




#16
Acetone
Concen: 6.430 ug/l
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

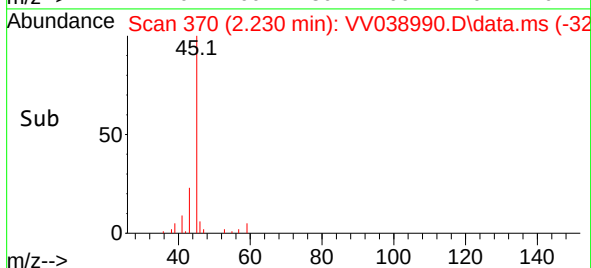
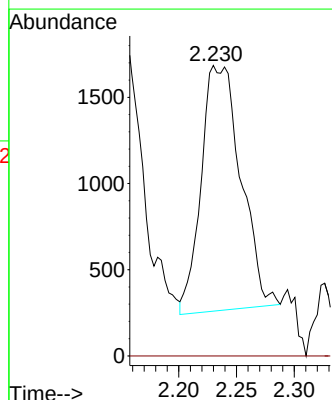
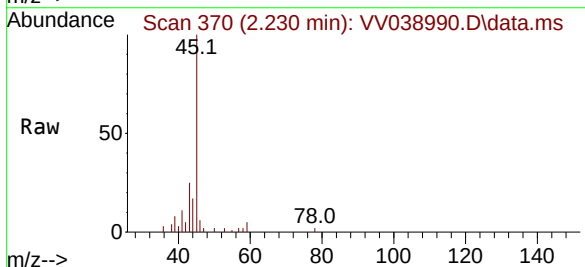
Instrument :
MSVOA_V
ClientSampleId :

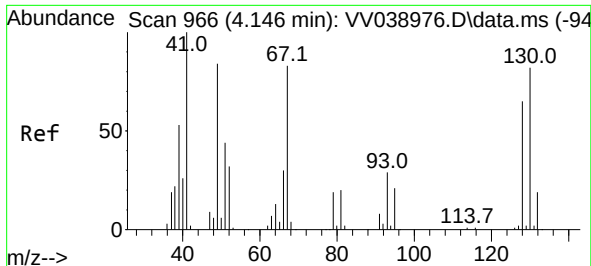
Tgt Ion: 43 Resp: 22733
Ion Ratio Lower Upper
43 100
58 33.2 26.3 39.5



#18
Methyl Acetate
Concen: 0.453 ug/l
RT: 2.230 min Scan# 370
Delta R.T. -0.148 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

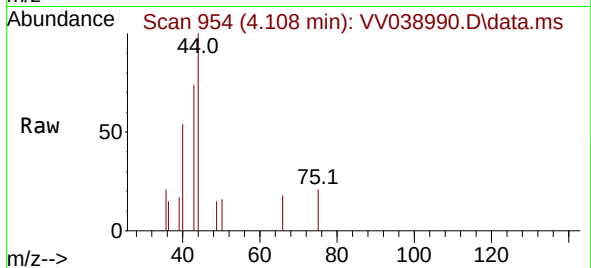
Tgt Ion: 43 Resp: 3397
Ion Ratio Lower Upper
43 100
74 0.0 23.5 35.3#



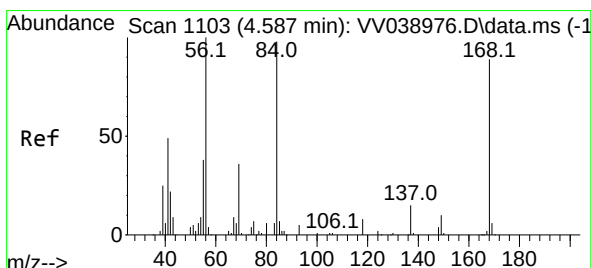
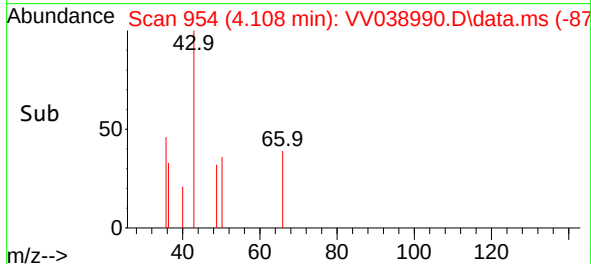
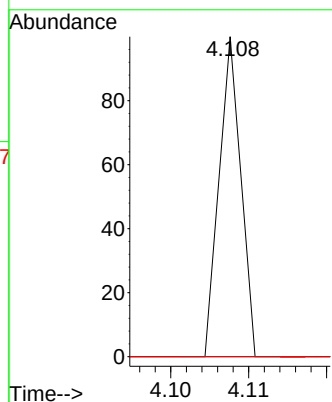


#28
Bromochloromethane
Concen: Below Cal
RT: 4.108 min Scan# 91
Delta R.T. -0.038 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Instrument :
MSVOA_V
ClientSampleId :

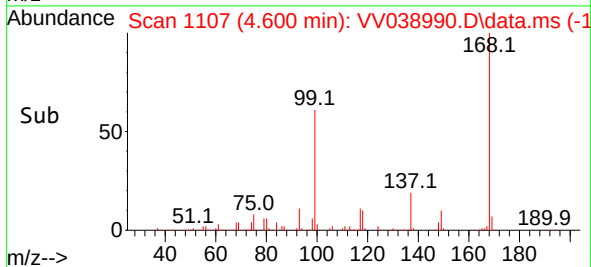
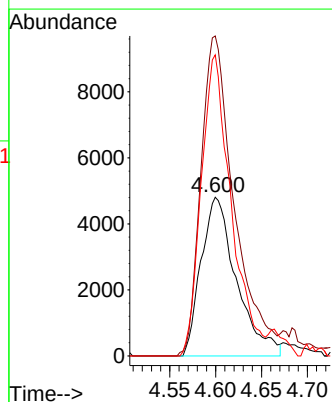
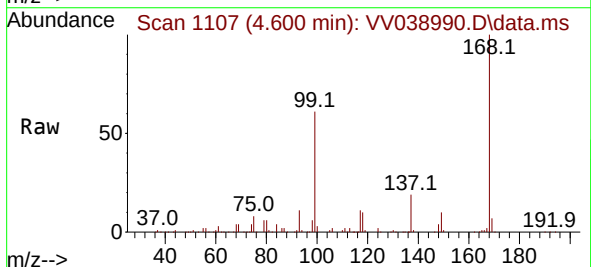


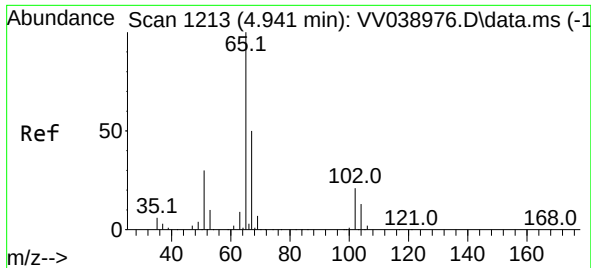
Tgt Ion: 49 Resp: 19
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 78.2 117.2#



#31
Cyclohexane
Concen: 1.046 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.013 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Tgt Ion: 56 Resp: 12913
Ion Ratio Lower Upper
56 100
69 199.4 28.6 42.8#
84 189.7 78.1 117.1#





#33

1,2-Dichloroethane-d4

Concen: 54.166 ug/l

RT: 4.940 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV038990.D

Acq: 21 Aug 2025 18:57

Instrument :

MSVOA_V

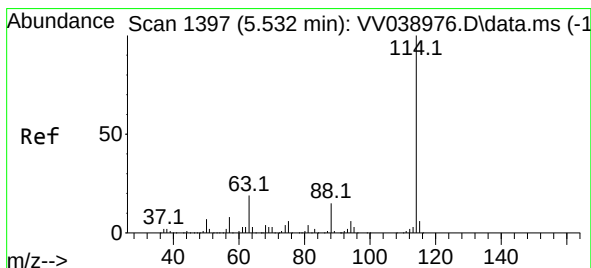
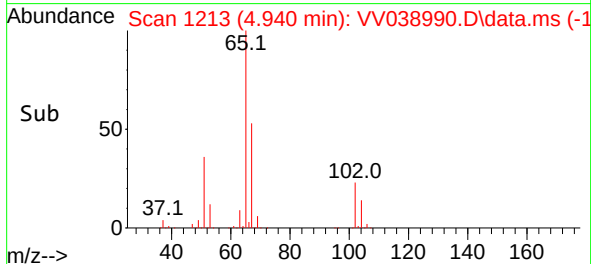
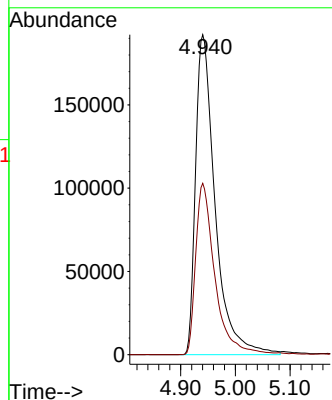
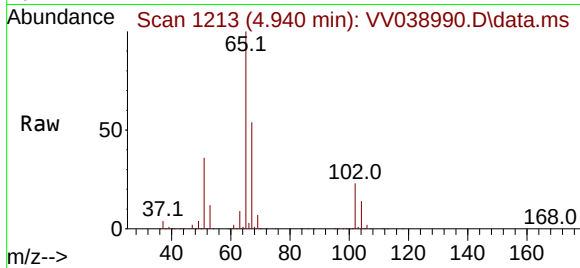
ClientSampleId :

Tgt Ion: 65 Resp: 477148

Ion Ratio Lower Upper

65 100

67 52.4 0.0 100.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VV038990.D

Acq: 21 Aug 2025 18:57

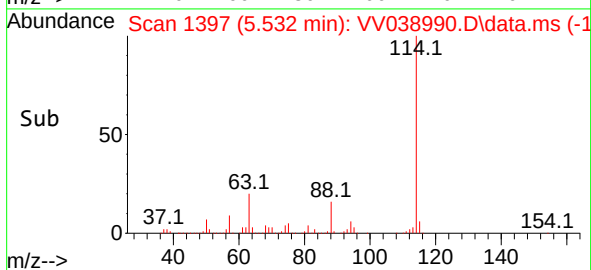
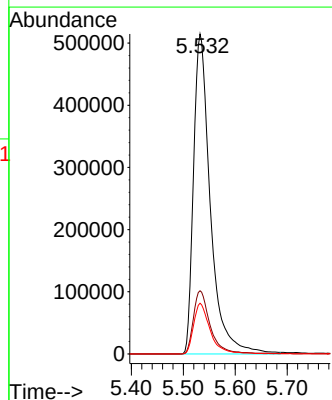
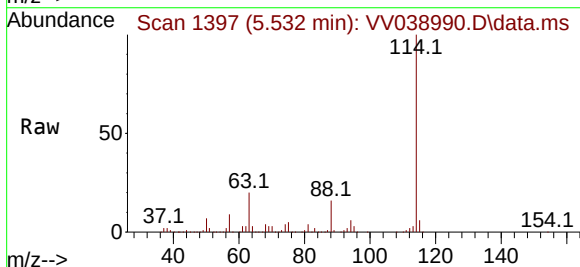
Tgt Ion: 114 Resp: 1158287

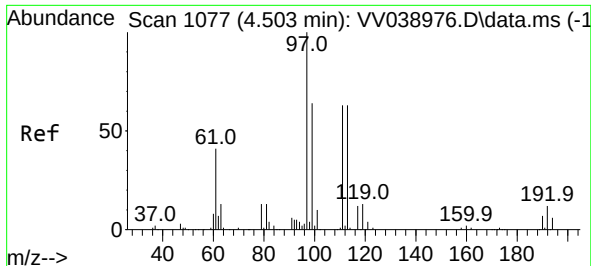
Ion Ratio Lower Upper

114 100

63 19.7 0.0 37.4

88 15.8 0.0 30.4

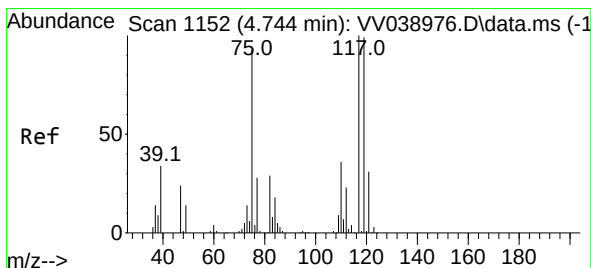
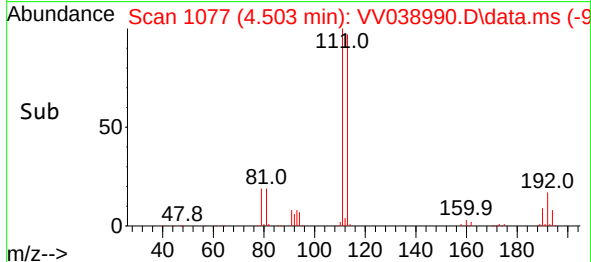
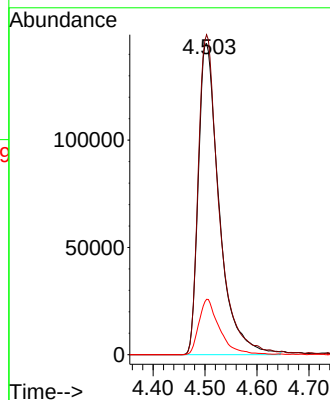
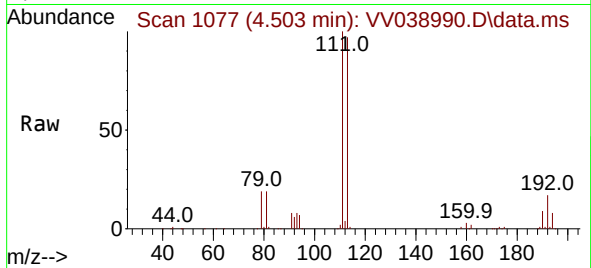




#35
Dibromofluoromethane
Concen: 46.570 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

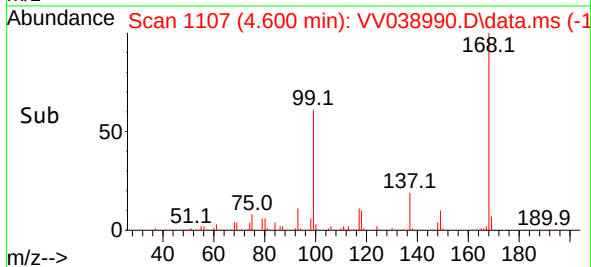
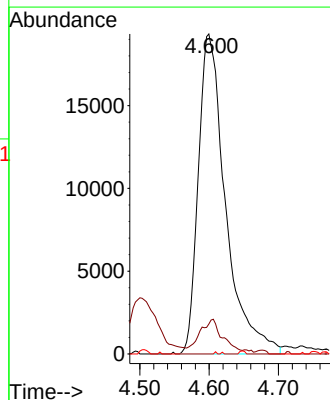
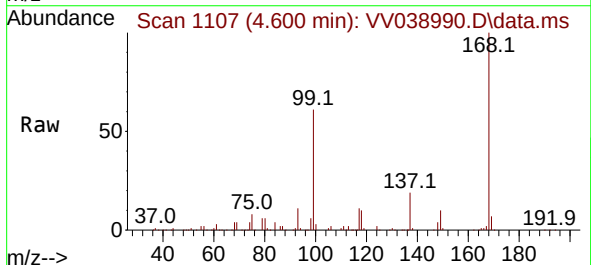
Instrument :
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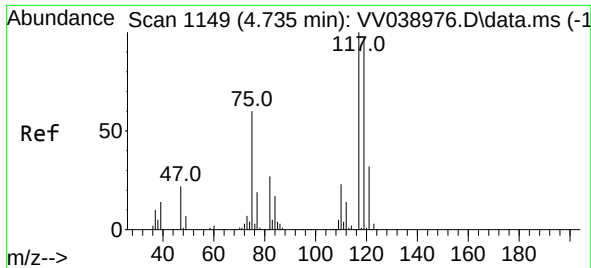
Tgt Ion:113 Resp: 404529
Ion Ratio Lower Upper
113 100
111 101.8 81.3 121.9
192 17.7 15.4 23.0



#36
1,1-Dichloropropene
Concen: 4.682 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

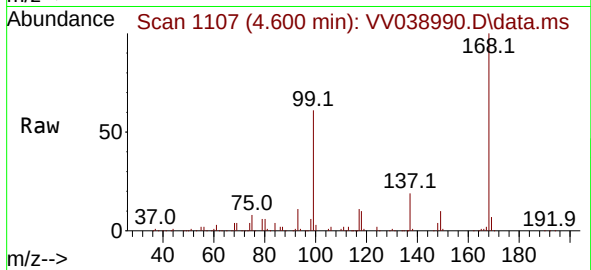
Tgt Ion: 75 Resp: 52815
Ion Ratio Lower Upper
75 100
110 7.8 19.6 58.7#
77 0.0 24.4 36.6#



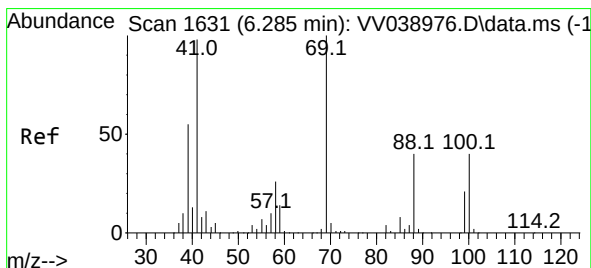
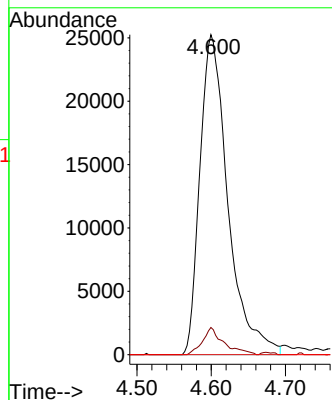
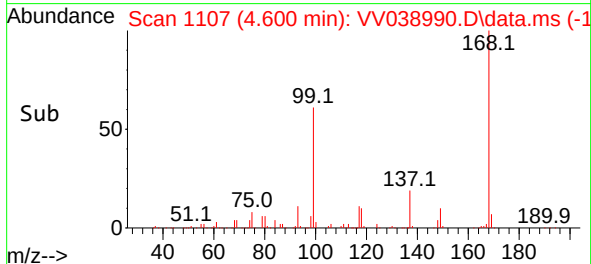


#38
Carbon Tetrachloride
Concen: 4.386 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Instrument :
MSVOA_V
ClientSampleId :

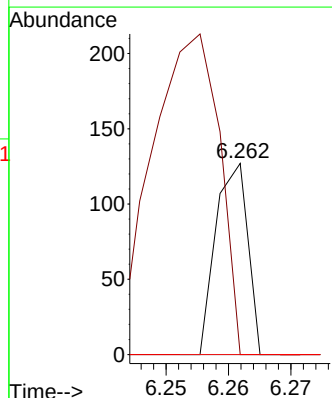
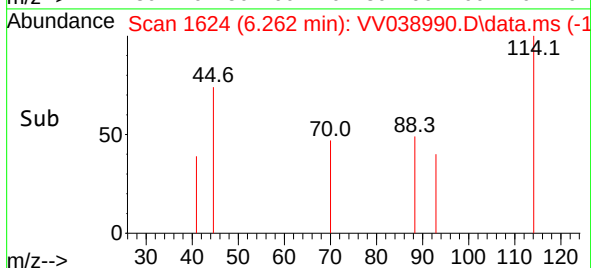
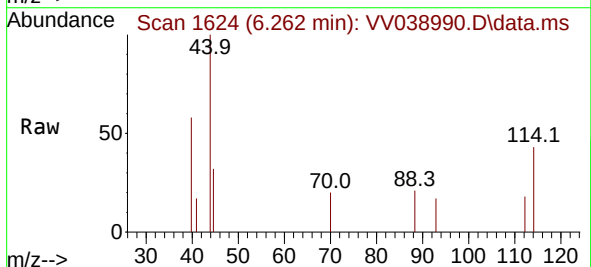


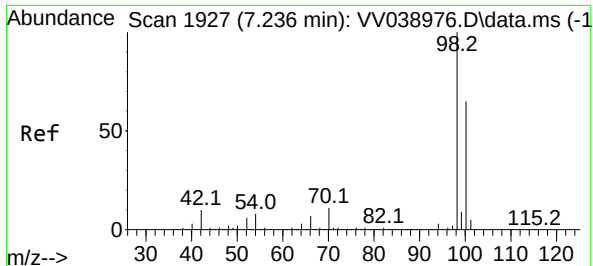
Tgt Ion: 117 Resp: 66265
Ion Ratio Lower Upper
117 100
119 8.5 77.1 115.7#
121 0.0 25.4 38.2#



#49
1,4-Dioxane
Concen: 0.357 ug/l
RT: 6.262 min Scan# 1624
Delta R.T. -0.023 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Tgt Ion: 88 Resp: 45
Ion Ratio Lower Upper
88 100
43 353.3 24.6 36.8#
58 0.0 51.8 77.6#

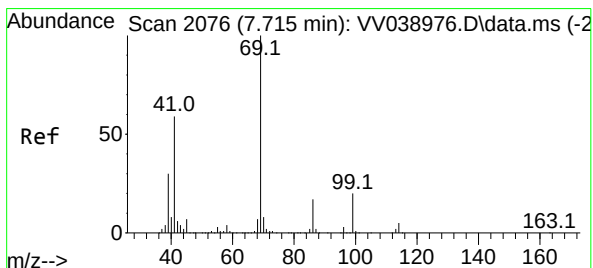
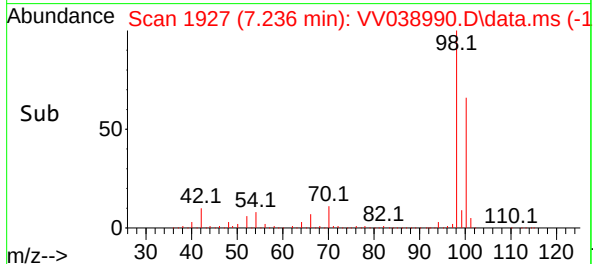
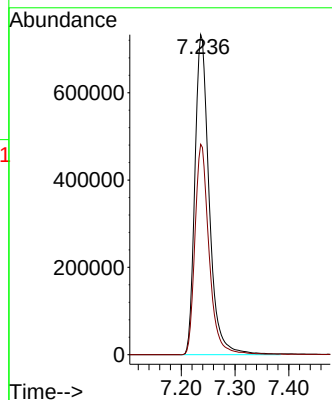
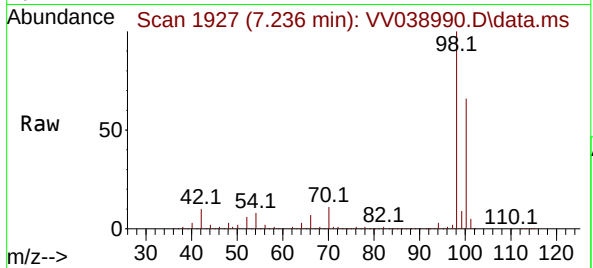




#50
Toluene-d8
Concen: 44.656 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

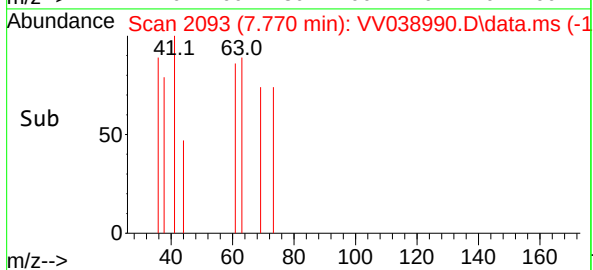
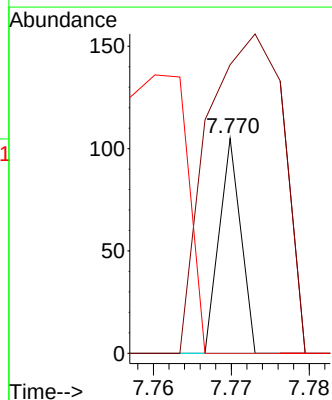
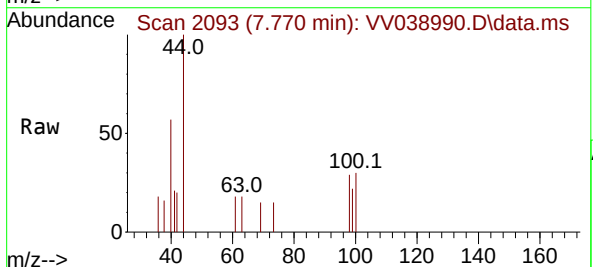
Instrument :
MSVOA_V
ClientSampleId :

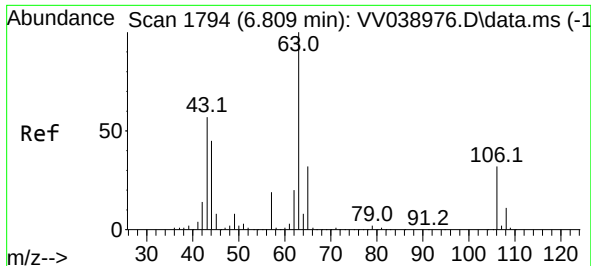
Tgt Ion: 98 Resp: 1352656
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2



#56
Ethyl methacrylate
Concen: 2.317 ug/l
RT: 7.770 min Scan# 2093
Delta R.T. 0.055 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Tgt Ion: 69 Resp: 20
Ion Ratio Lower Upper
69 100
41 525.0 47.5 71.3#
39 0.0 24.2 36.2#

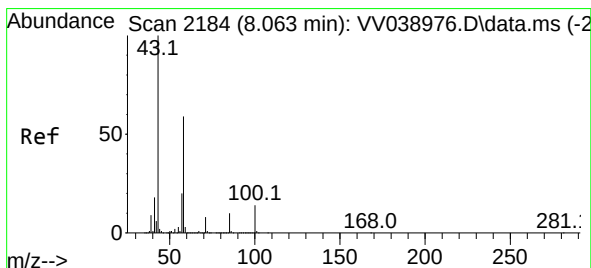
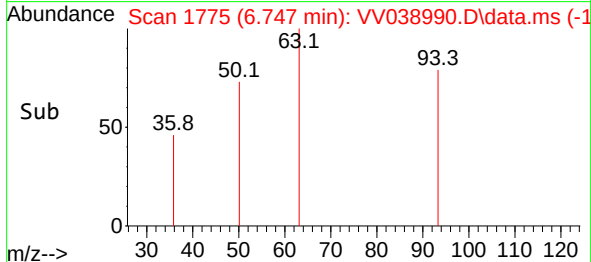
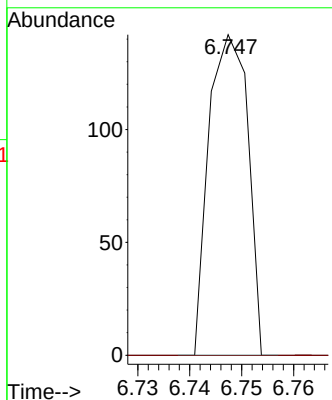
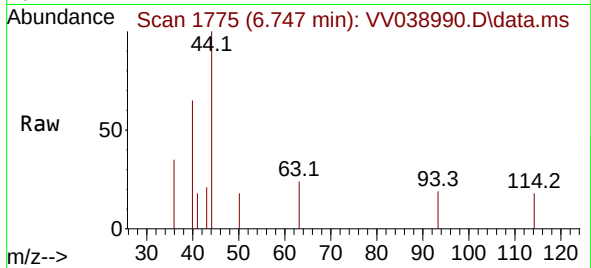




#58
2-Chloroethyl Vinyl ether
Concen: 4.995 ug/l
RT: 6.747 min Scan# 11
Delta R.T. -0.062 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

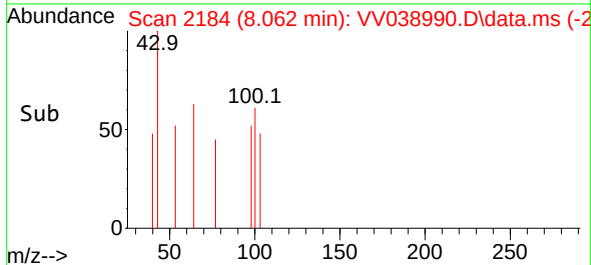
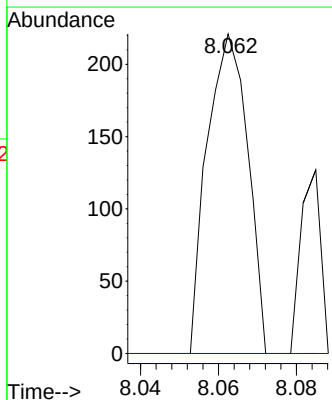
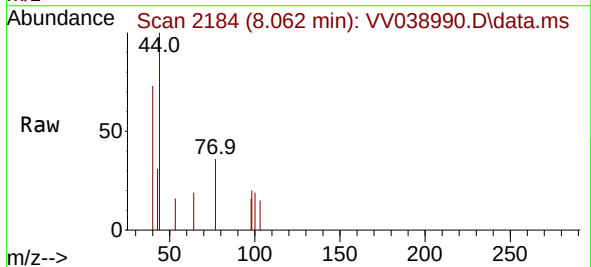
Instrument :
MSVOA_V
ClientSampleId :

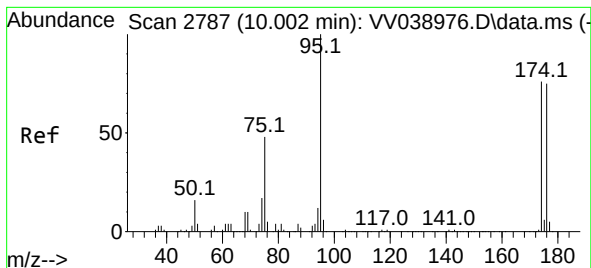
Tgt Ion: 63 Resp: 74
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 10.911 ug/l
RT: 8.062 min Scan# 2184
Delta R.T. -0.001 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Tgt Ion: 43 Resp: 160
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#





#62

4-Bromofluorobenzene

Concen: 38.930 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV038990.D

Acq: 21 Aug 2025 18:57

Instrument :

MSVOA_V

ClientSampleId :

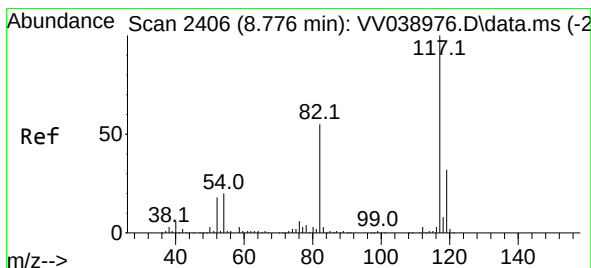
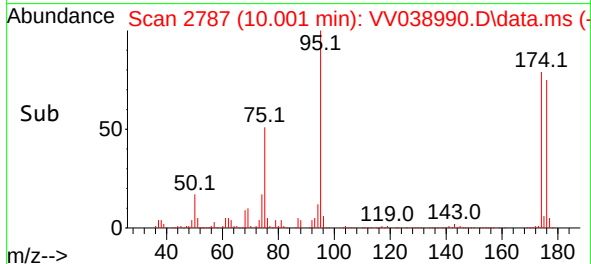
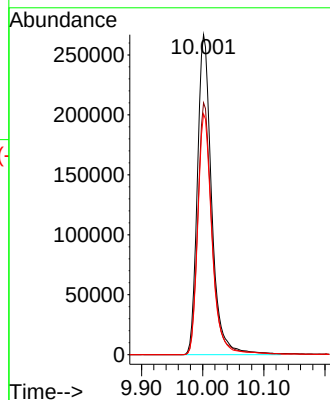
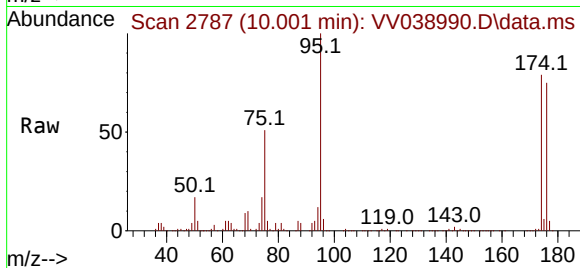
Tgt Ion: 95 Resp: 431386

Ion Ratio Lower Upper

95 100

174 78.8 0.0 154.4

176 75.0 0.0 148.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2406

Delta R.T. 0.000 min

Lab File: VV038990.D

Acq: 21 Aug 2025 18:57

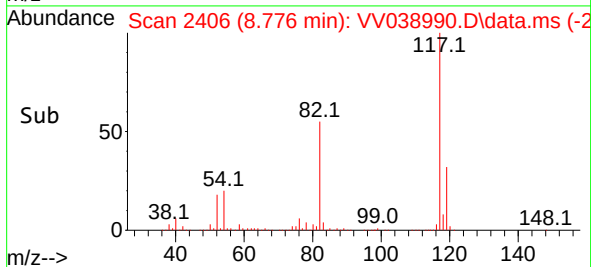
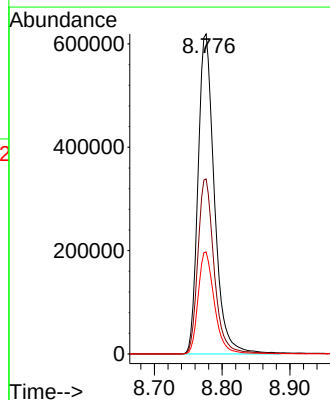
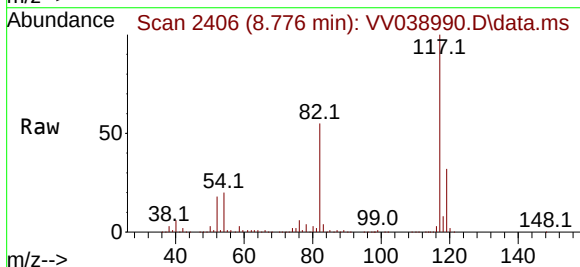
Tgt Ion: 117 Resp: 1037879

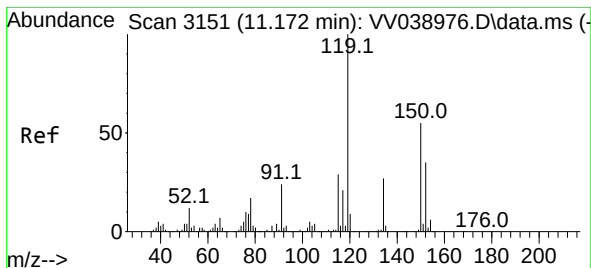
Ion Ratio Lower Upper

117 100

82 54.7 44.4 66.6

119 31.9 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV038990.D

Acq: 21 Aug 2025 18:57

Instrument :

MSVOA_V

ClientSampleId :

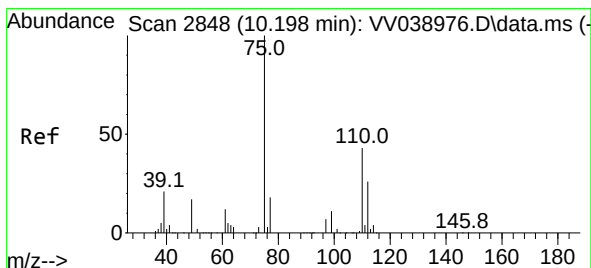
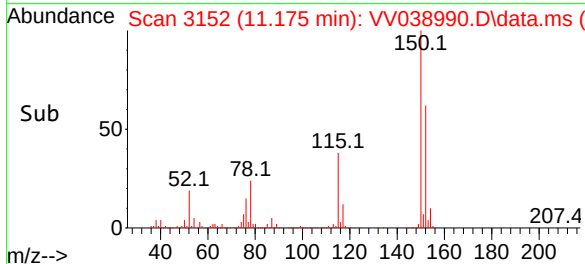
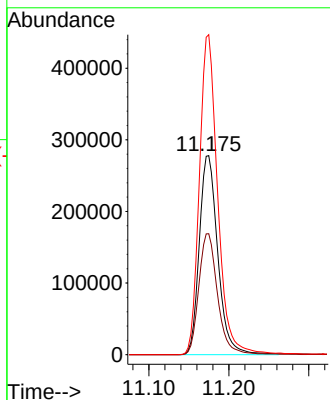
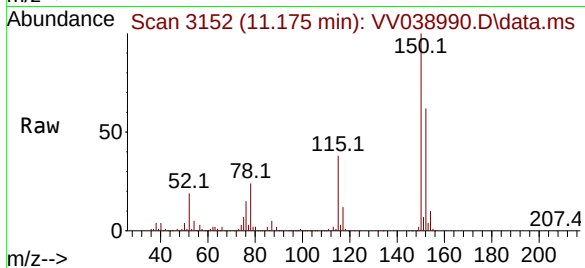
Tgt Ion:152 Resp: 449449

Ion Ratio Lower Upper

152 100

115 61.5 42.5 127.5

150 158.2 0.0 344.8



#76

1,2,3-Trichloropropane

Concen: 26.281 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV038990.D

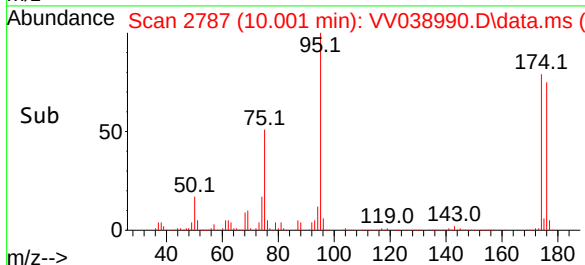
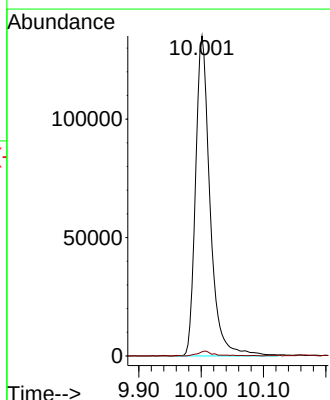
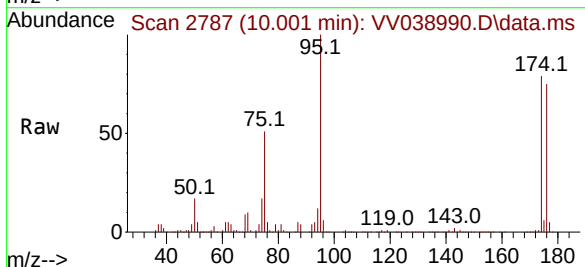
Acq: 21 Aug 2025 18:57

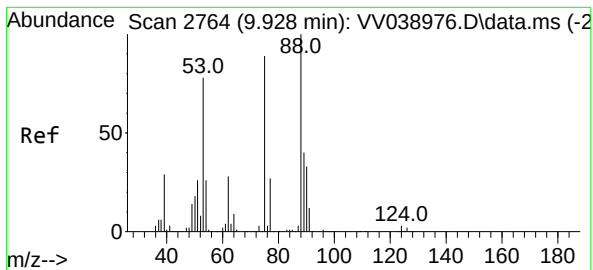
Tgt Ion: 75 Resp: 219094

Ion Ratio Lower Upper

75 100

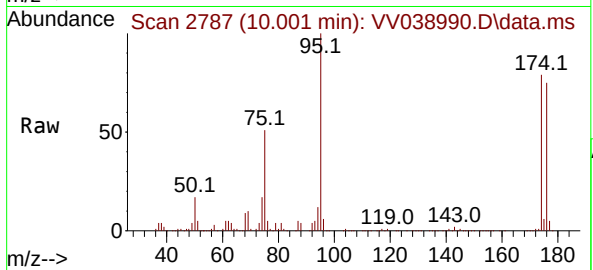
77 1.4 11.3 33.8#





#81
trans-1,4-Dichloro-2-butene
Concen: 60.338 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV038990.D
Acq: 21 Aug 2025 18:57

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 75 Resp: 219094
Ion Ratio Lower Upper
75 100
53 0.2 70.3 105.5#
89 0.1 37.9 56.9#

