

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082225\
 Data File : VV039010.D
 Acq On : 22 Aug 2025 10:55
 Operator : SY/MD
 Sample : VV0822WBL01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV0822WBL01

Quant Time: Aug 25 02:19:40 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)

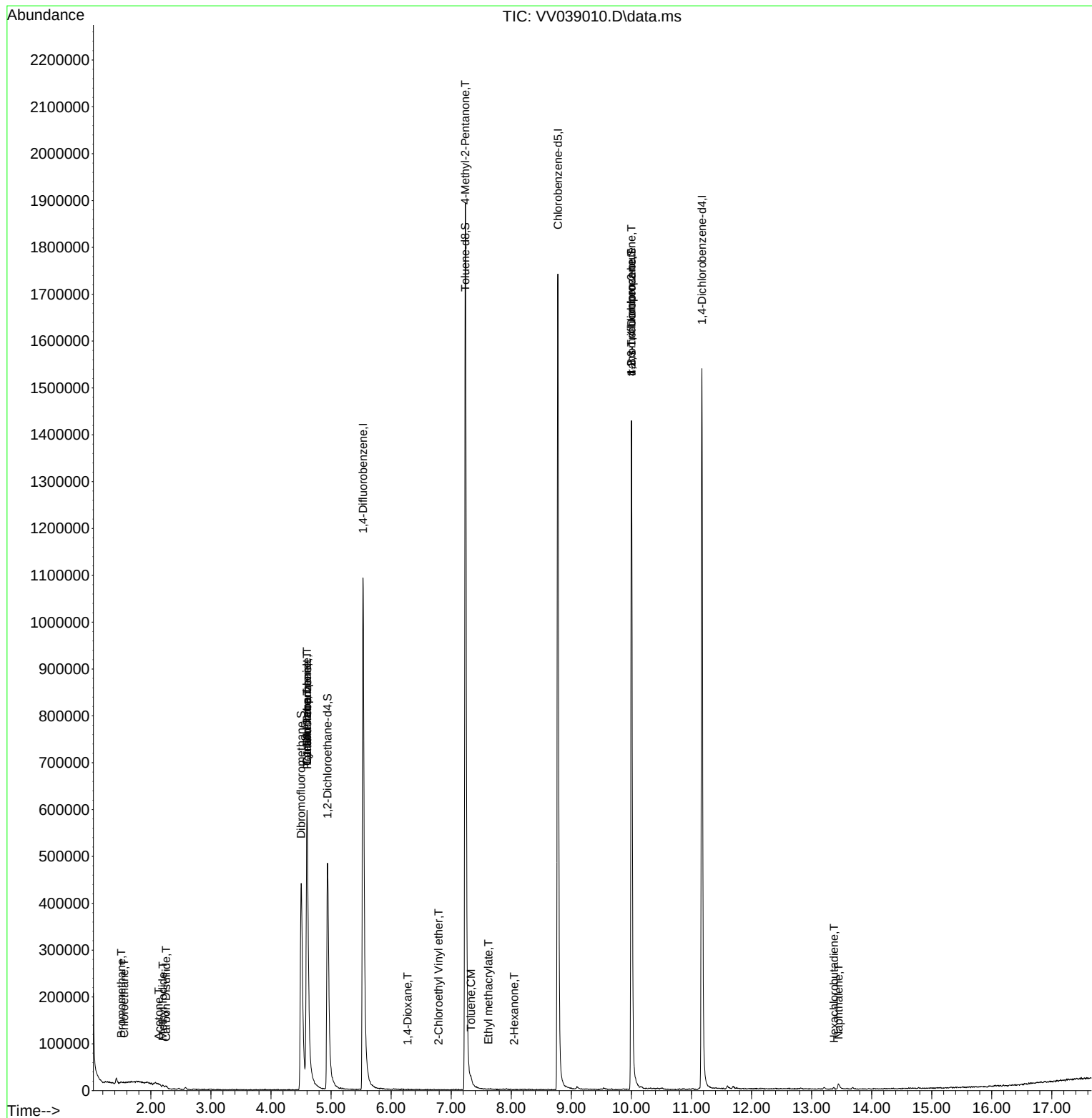
Internal Standards						
1) Pentafluorobenzene	4.603	168	530331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1082642	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	991839	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	416909	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	446395	59.988	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	119.980%#
35) Dibromofluoromethane	4.503	113	384731	47.385	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	94.760%
50) Toluene-d8	7.236	98	1349261	47.656	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	95.320%
62) 4-Bromofluorobenzene	10.001	95	510781	49.316	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	98.640%
Target Compounds						
					Qvalue	
5) Bromomethane	1.510	94	1460	0.313	ug/l #	74
6) Chloroethane	1.558	64	2259	0.513	ug/l #	63
10) Methyl Iodide	2.198	142	6171	0.759	ug/l #	85
13) Acrolein	2.015	56	169	Below Cal	#	13
16) Acetone	2.134	43	2631	0.881	ug/l	100
17) Carbon Disulfide	2.253	76	5428	0.324	ug/l	99
28) Bromochloromethane	4.265	49	40	Below Cal	#	3
31) Cyclohexane	4.600	56	9919	0.951	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	43124	4.090	ug/l #	49
38) Carbon Tetrachloride	4.600	117	55750	3.948	ug/l #	16
49) 1,4-Dioxane	6.275	88	80	0.679	ug/l #	26
51) 4-Methyl-2-Pentanone	7.233	43	5014	0.486	ug/l #	1
52) Toluene	7.330	92	6488	0.310	ug/l #	66
56) Ethyl methacrylate	7.619	69	43	2.318	ug/l #	38
58) 2-Chloroethyl Vinyl ether	6.793	63	101	5.000	ug/l #	43
59) 2-Hexanone	8.050	43	43	10.901	ug/l #	21
76) 1,2,3-Trichloropropane	10.001	75	251045	32.464	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	251045	74.533	ug/l #	14
94) Hexachlorobutadiene	13.374	225	887	0.213	ug/l	65
95) Naphthalene	13.448	128	13462	0.528	ug/l #	82

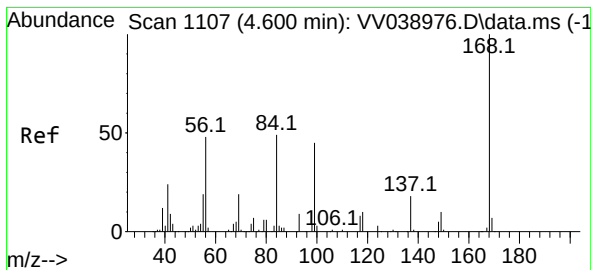
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.603 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV039010.D

Acq: 22 Aug 2025 10:55

Instrument :

MSVOA_V

ClientSampleId :

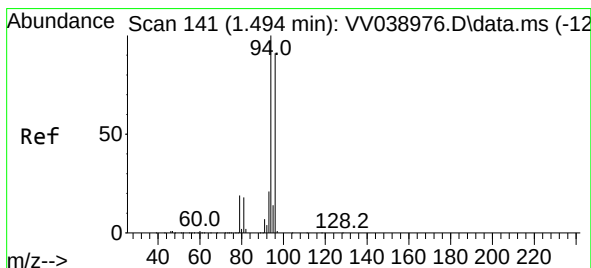
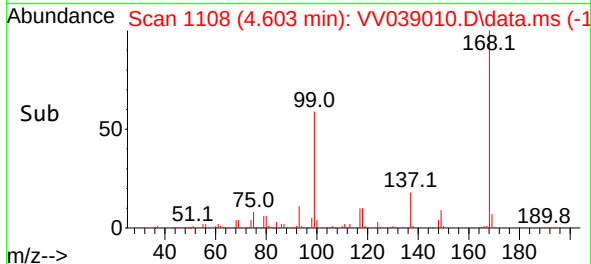
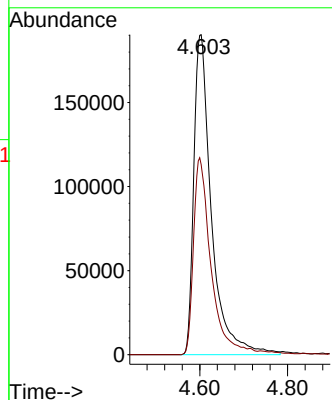
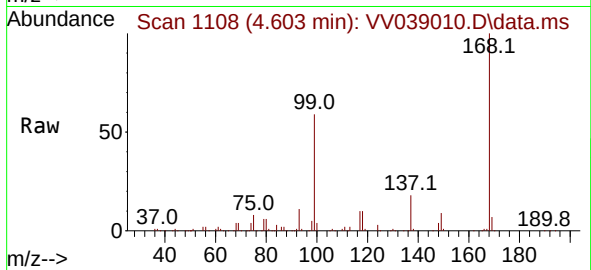
VV0822WBL01

Tgt Ion:168 Resp: 530331

Ion Ratio Lower Upper

168 100

99 59.4 47.0 70.6



#5

Bromomethane

Concen: 0.313 ug/l

RT: 1.510 min Scan# 146

Delta R.T. 0.016 min

Lab File: VV039010.D

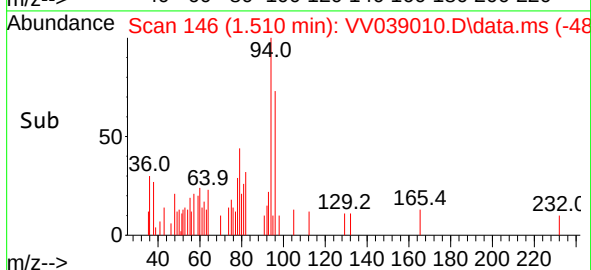
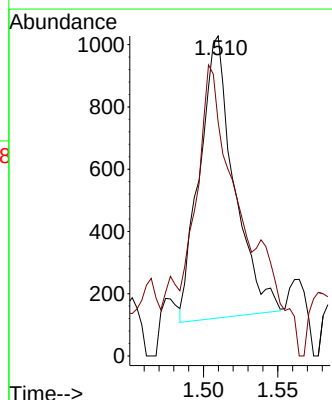
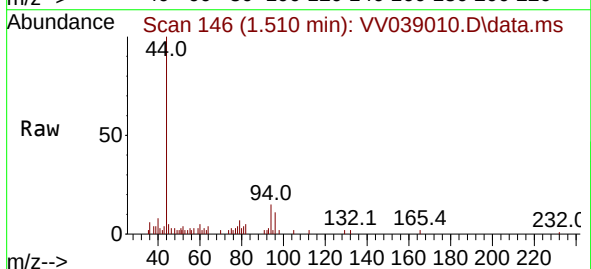
Acq: 22 Aug 2025 10:55

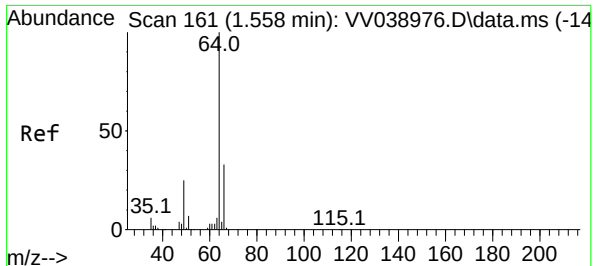
Tgt Ion: 94 Resp: 1460

Ion Ratio Lower Upper

94 100

96 66.5 73.1 109.7#

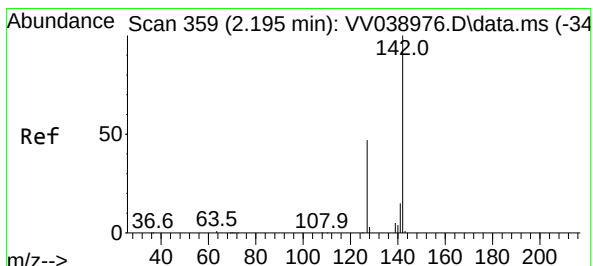
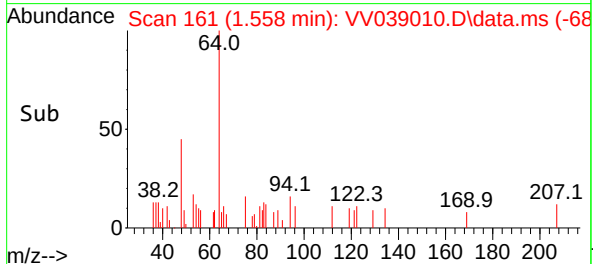
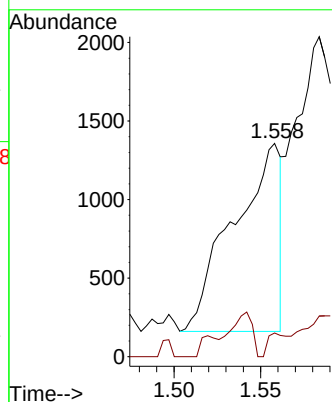
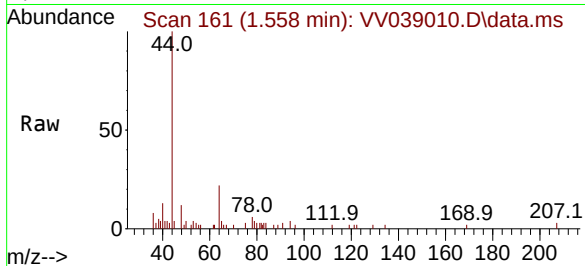




#6
Chloroethane
Concen: 0.513 ug/l
RT: 1.558 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

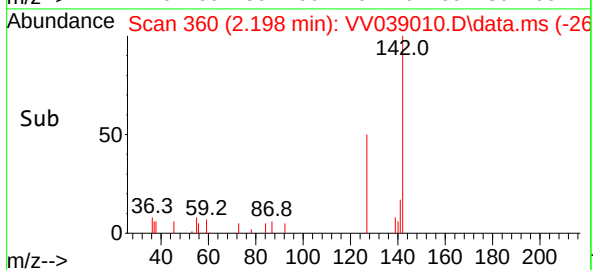
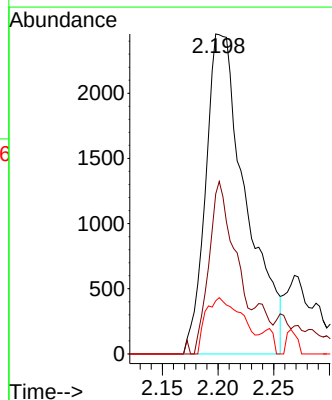
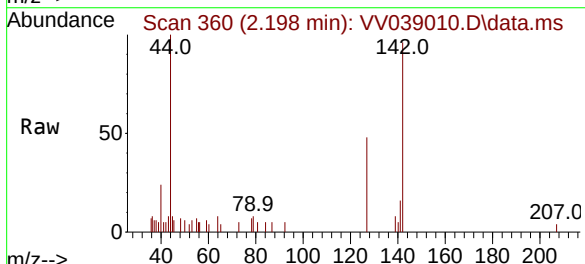
Instrument :
MSVOA_V
ClientSampleId :
VV0822WBL01

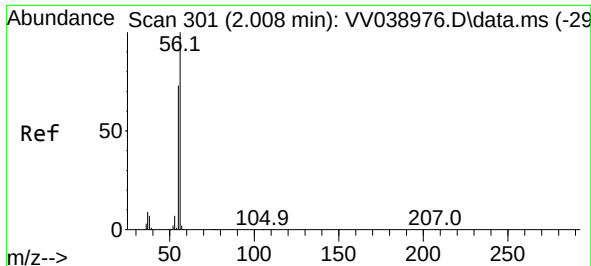
Tgt Ion: 64 Resp: 2259
Ion Ratio Lower Upper
64 100
66 12.6 26.8 40.2#



#10
Methyl Iodide
Concen: 0.759 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion:142 Resp: 6171
Ion Ratio Lower Upper
142 100
127 36.1 38.6 57.8#
141 15.8 11.4 17.2

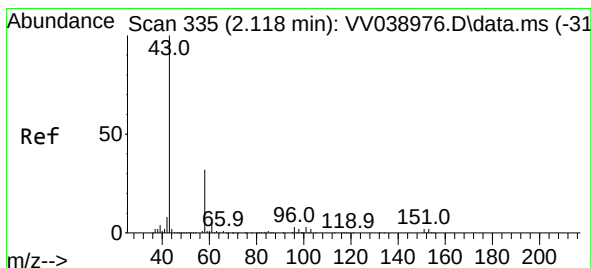
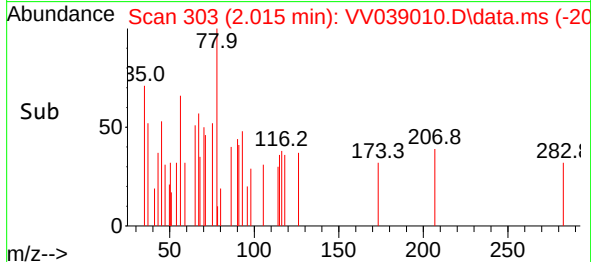
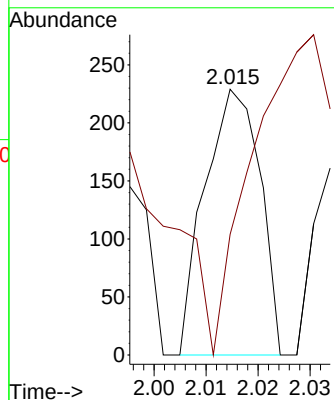
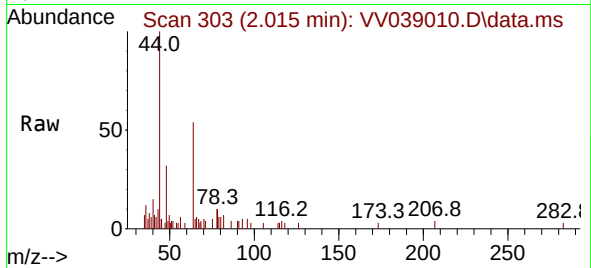




#13
Acrolein
Concen: Below Cal
RT: 2.015 min Scan# 301
Delta R.T. 0.007 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

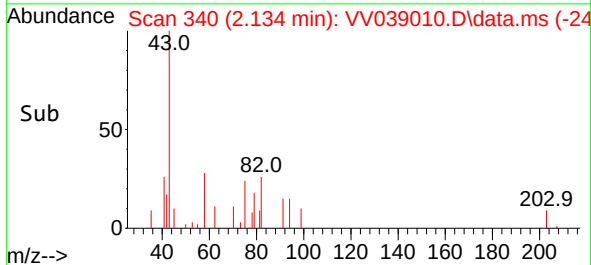
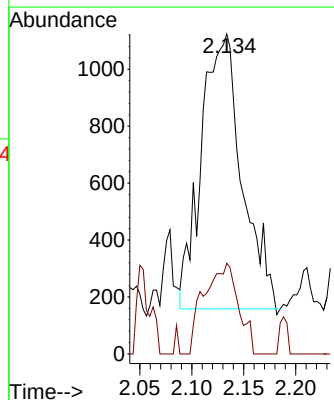
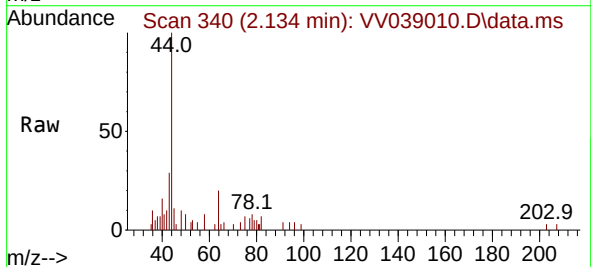
Instrument :
MSVOA_V
ClientSampleId :
VV0822WBL01

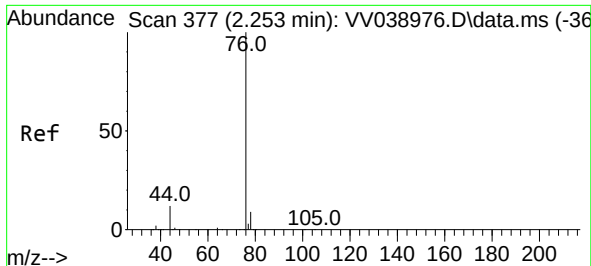
Tgt Ion: 56 Resp: 169
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#



#16
Acetone
Concen: 0.881 ug/l
RT: 2.134 min Scan# 340
Delta R.T. 0.016 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 43 Resp: 2631
Ion Ratio Lower Upper
43 100
58 32.9 26.3 39.5

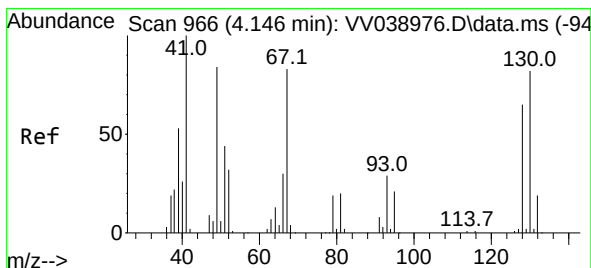
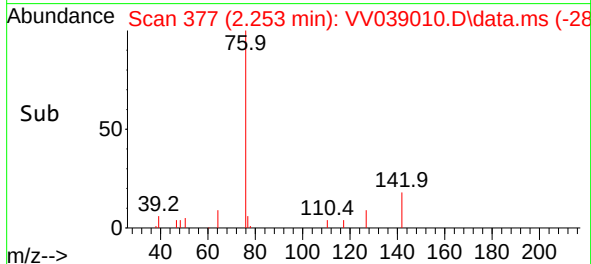
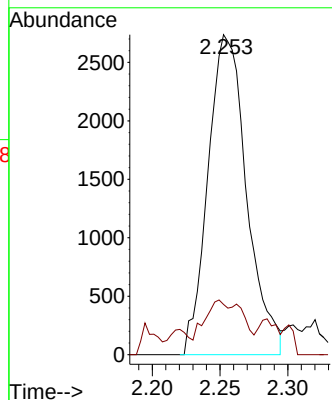
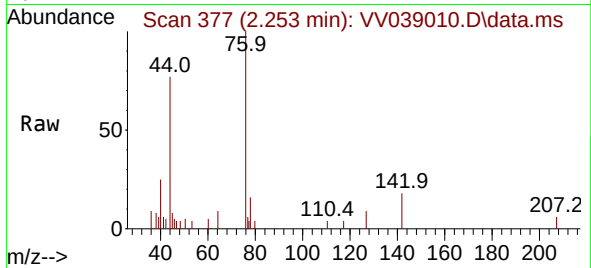




#17
Carbon Disulfide
Concen: 0.324 ug/l
RT: 2.253 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

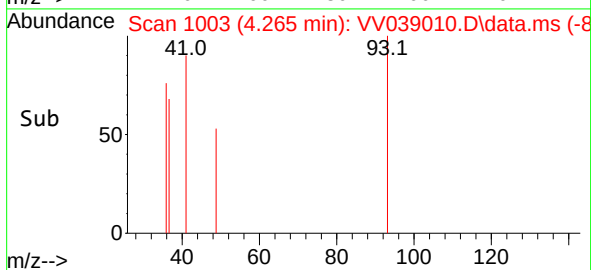
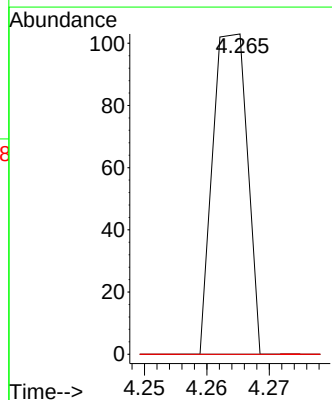
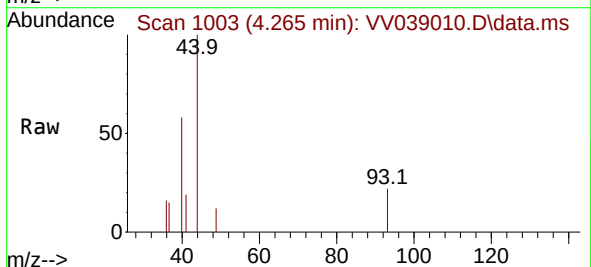
Instrument :
MSVOA_V
ClientSampleId :
VV0822WBL01

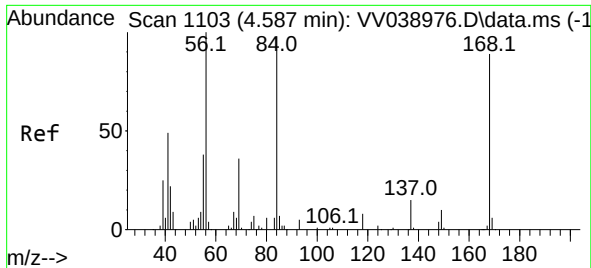
Tgt Ion: 76 Resp: 5428
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9



#28
Bromochloromethane
Concen: Below Cal
RT: 4.265 min Scan# 1003
Delta R.T. 0.119 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 49 Resp: 40
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 78.2 117.2#

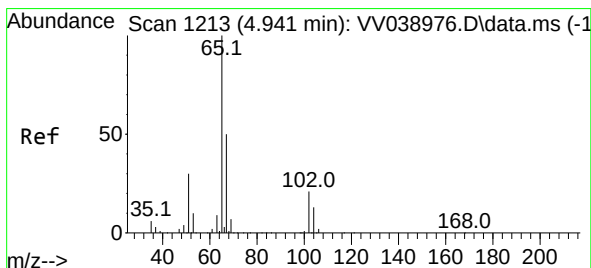
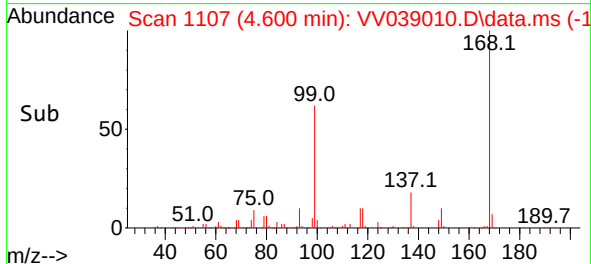
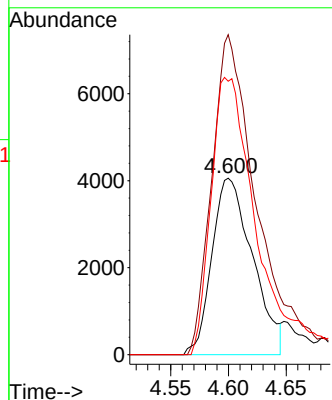
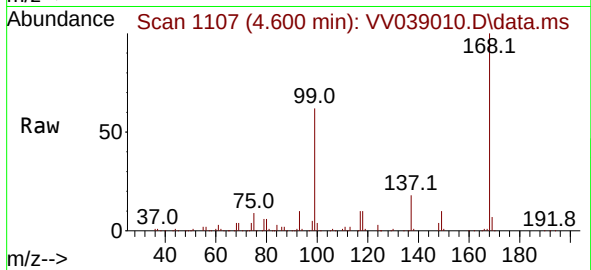




#31
Cyclohexane
Concen: 0.951 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.013 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

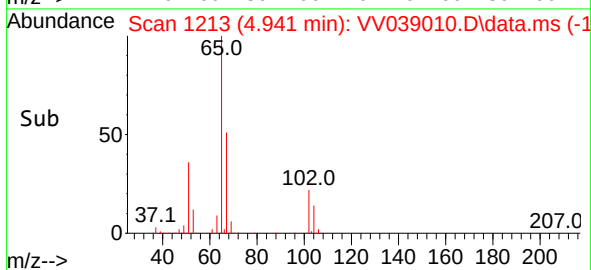
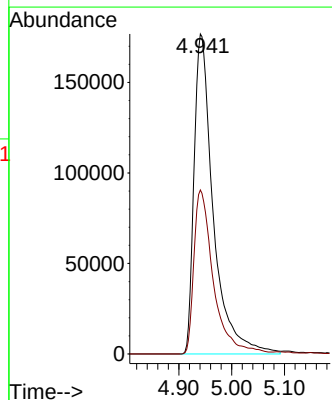
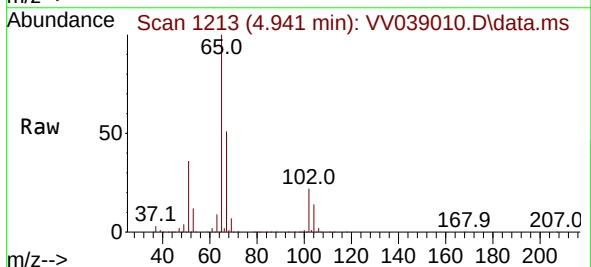
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ClientSampleId :
VV0822WBL01

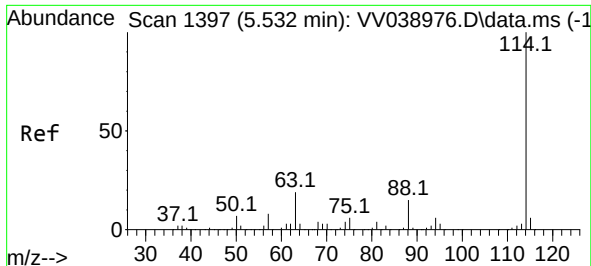
Tgt Ion: 56 Resp: 9919
Ion Ratio Lower Upper
56 100
69 181.3 28.6 42.8#
84 154.9 78.1 117.1#



#33
1,2-Dichloroethane-d4
Concen: 59.988 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. -0.000 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 65 Resp: 446395
Ion Ratio Lower Upper
65 100
67 52.0 0.0 100.4

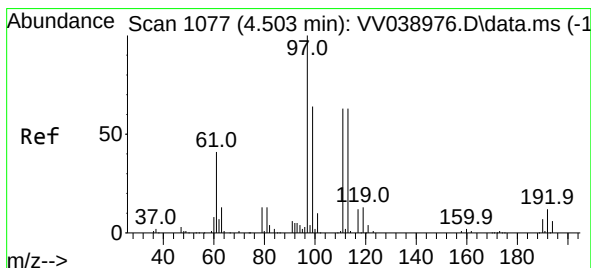
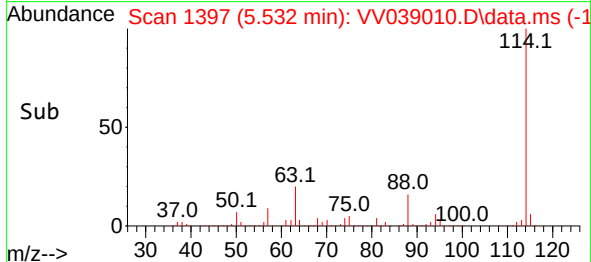
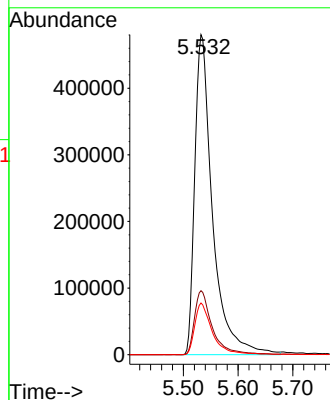
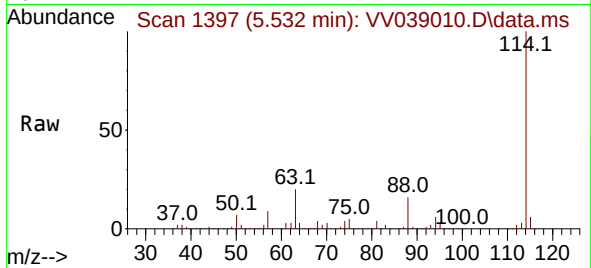




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

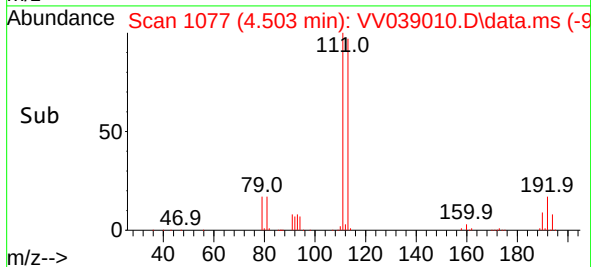
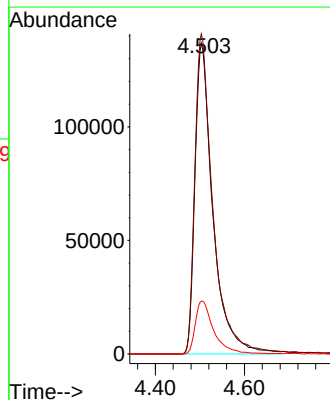
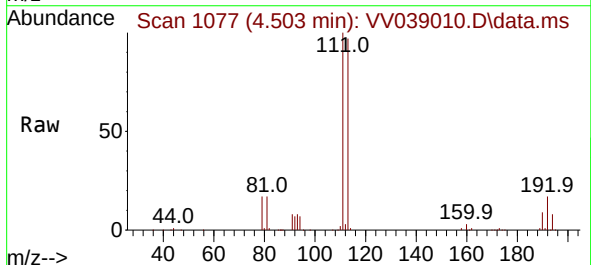
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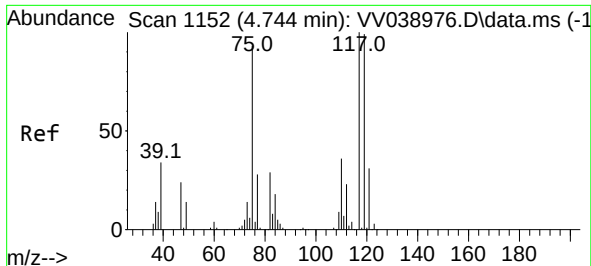
Tgt Ion:114 Resp: 1082642
Ion Ratio Lower Upper
114 100
63 20.0 0.0 37.4
88 16.1 0.0 30.4



#35
Dibromofluoromethane
Concen: 47.385 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. -0.000 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion:113 Resp: 384731
Ion Ratio Lower Upper
113 100
111 103.7 81.3 121.9
192 17.4 15.4 23.0

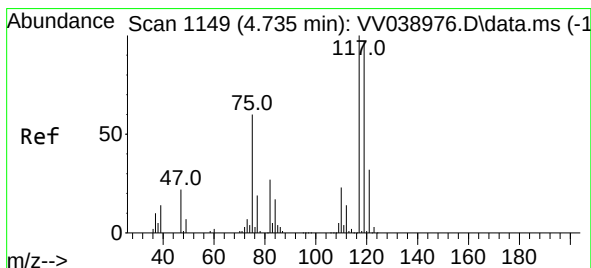
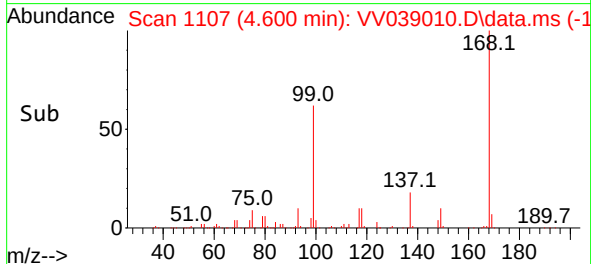
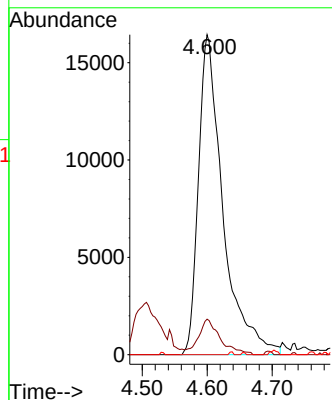
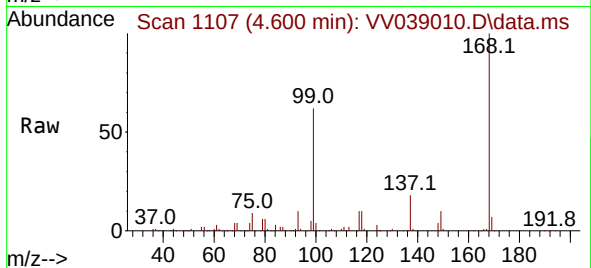




#36
1,1-Dichloropropene
Concen: 4.090 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

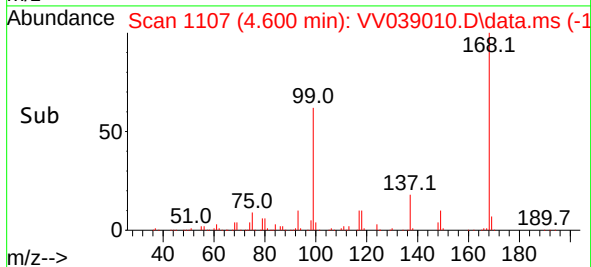
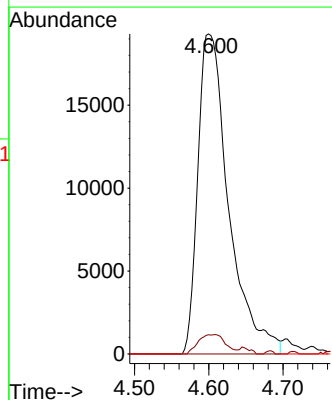
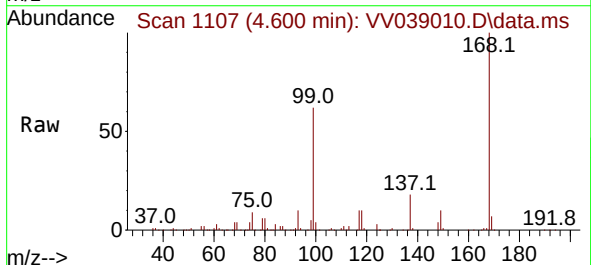
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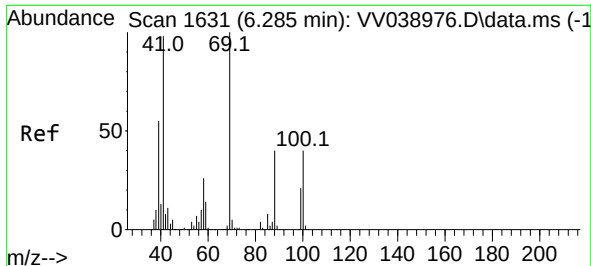
Tgt Ion: 75 Resp: 43124
Ion Ratio Lower Upper
75 100
110 9.8 19.6 58.7#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 3.948 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 117 Resp: 55750
Ion Ratio Lower Upper
117 100
119 6.0 77.1 115.7#
121 0.0 25.4 38.2#





#49

1,4-Dioxane

Concen: 0.679 ug/l

RT: 6.275 min Scan# 1

Delta R.T. -0.010 min

Lab File: VV039010.D

Acq: 22 Aug 2025 10:55

Instrument :

MSVOA_V

ClientSampleId :

VV0822WBL01

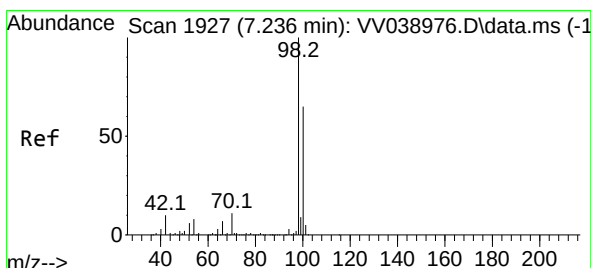
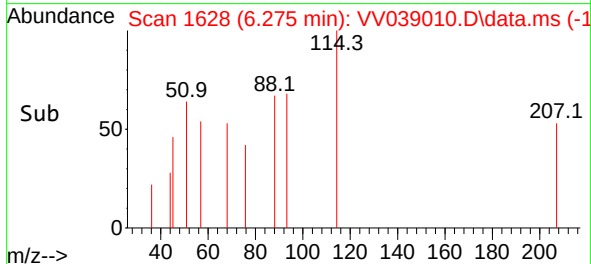
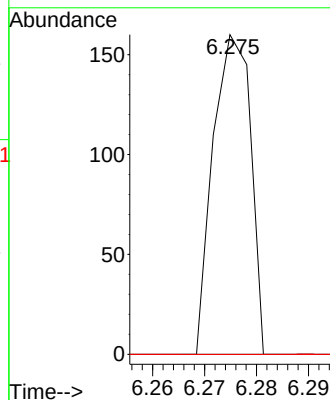
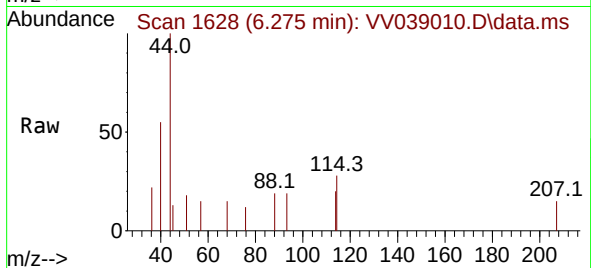
Tgt Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 0.0 24.6 36.8#

58 0.0 51.8 77.6#



#50

Toluene-d8

Concen: 47.656 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. -0.000 min

Lab File: VV039010.D

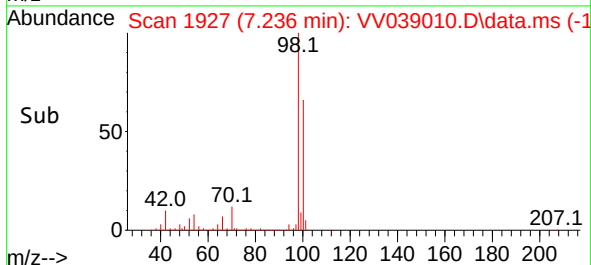
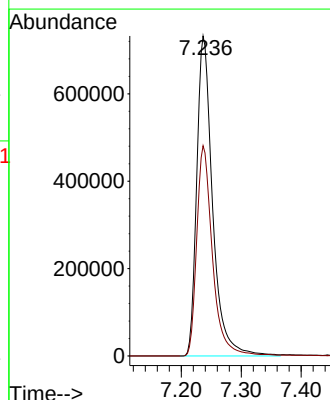
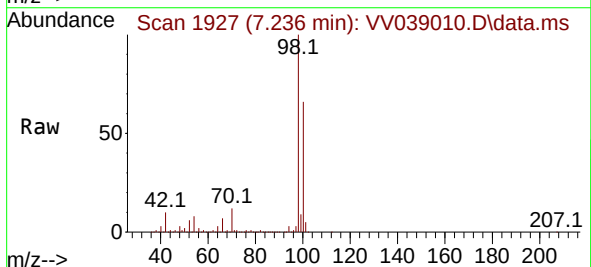
Acq: 22 Aug 2025 10:55

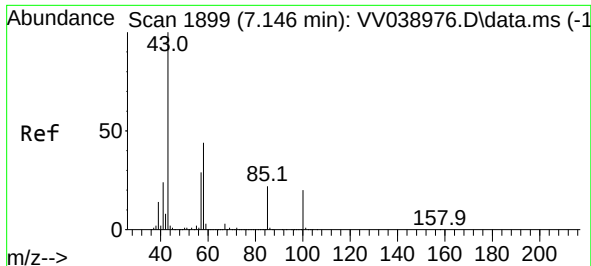
Tgt Ion: 98 Resp: 1349261

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2

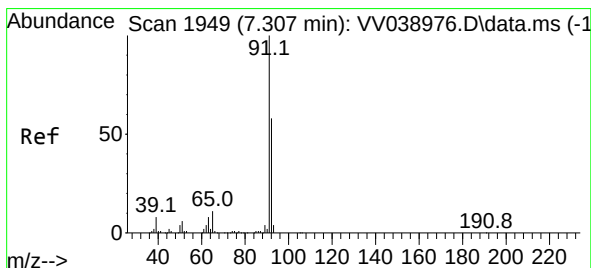
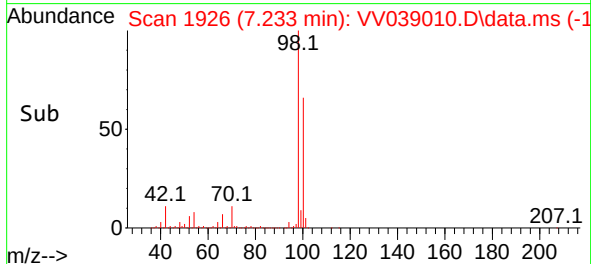
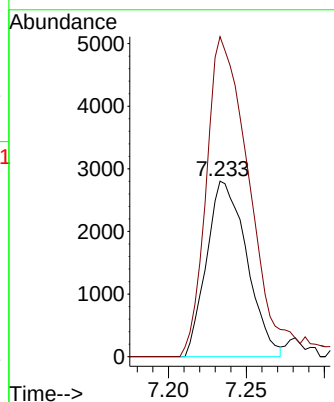
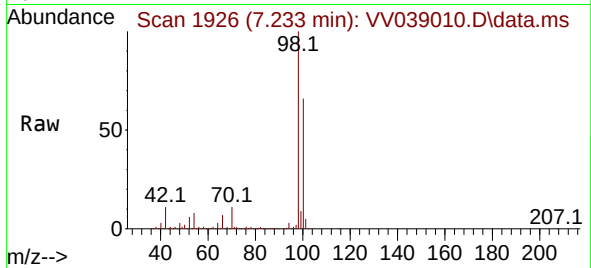




#51
4-Methyl-2-Pentanone
Concen: 0.486 ug/l
RT: 7.233 min Scan# 1956
Delta R.T. 0.087 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

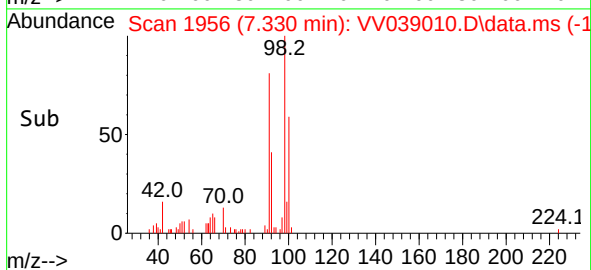
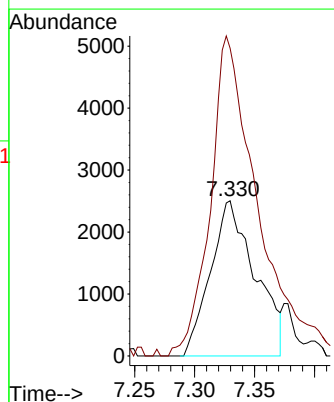
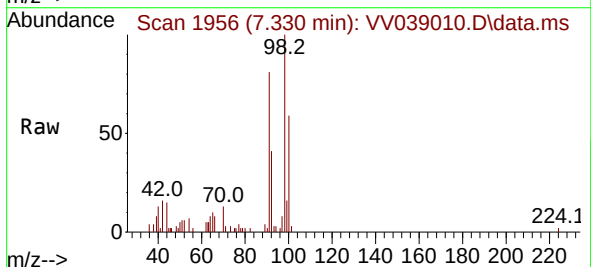
Instrument :
MSVOA_V
ClientSampleId :
VV0822WBL01

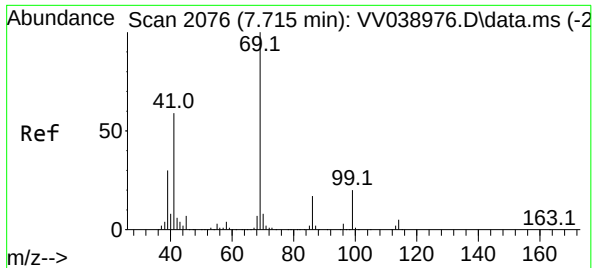
Tgt Ion: 43 Resp: 5014
Ion Ratio Lower Upper
43 100
58 198.9 34.6 51.8#



#52
Toluene
Concen: 0.310 ug/l
RT: 7.330 min Scan# 1956
Delta R.T. 0.022 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 92 Resp: 6488
Ion Ratio Lower Upper
92 100
91 217.4 136.3 204.5#

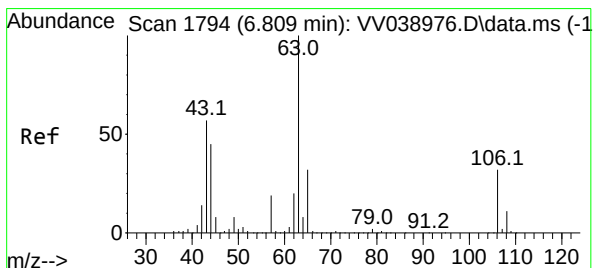
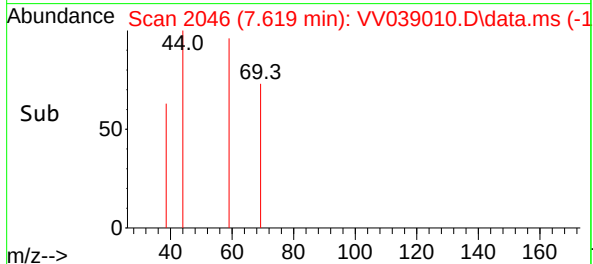
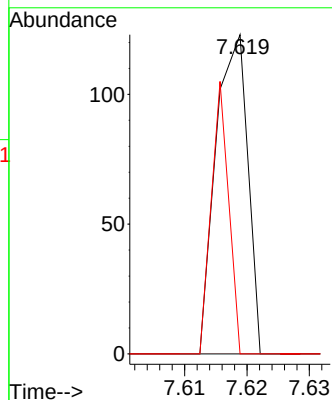
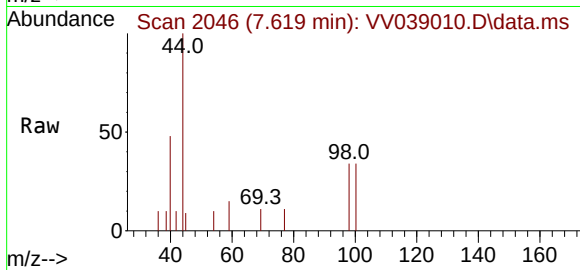




#56
Ethyl methacrylate
Concen: 2.318 ug/l
RT: 7.619 min Scan# 2076
Delta R.T. -0.096 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

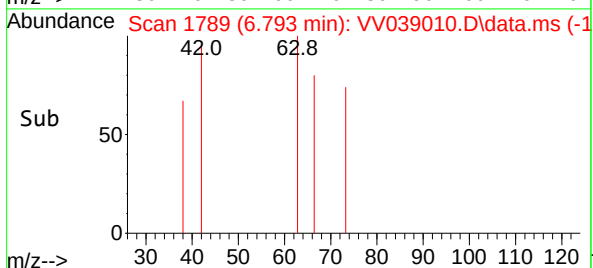
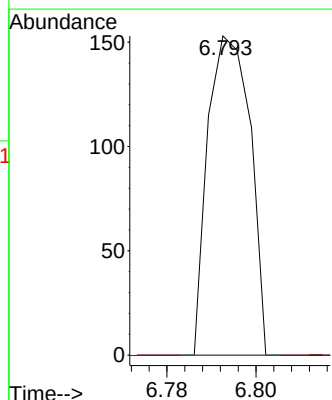
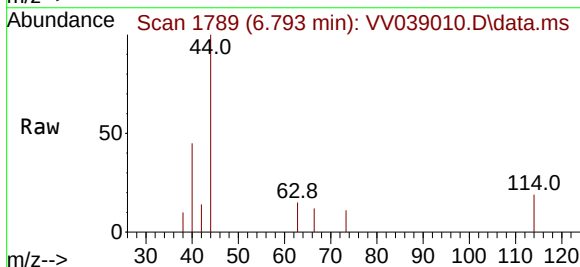
Instrument :
MSVOA_V
ClientSampleId :
VV0822WBL01

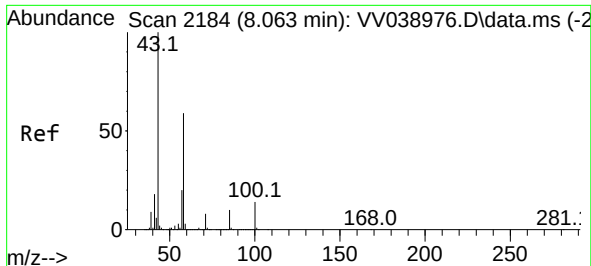
Tgt Ion: 69 Resp: 43
Ion Ratio Lower Upper
69 100
41 0.0 47.5 71.3#
39 46.5 24.2 36.2#



#58
2-Chloroethyl Vinyl ether
Concen: 5.000 ug/l
RT: 6.793 min Scan# 1789
Delta R.T. -0.016 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 63 Resp: 101
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#

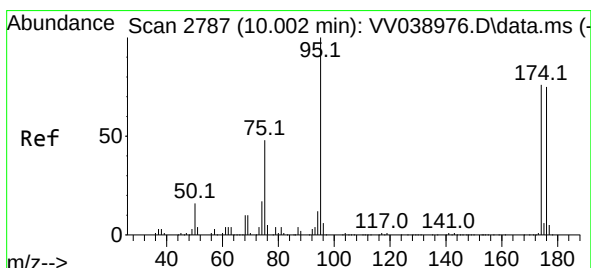
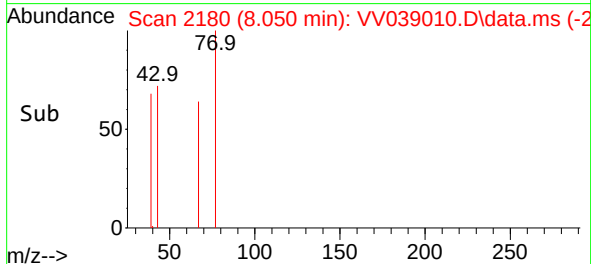
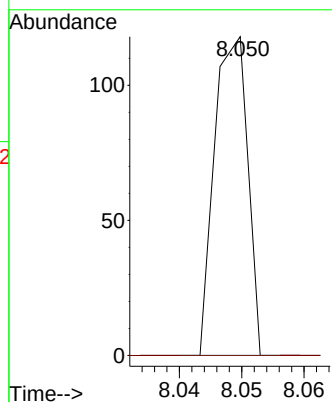
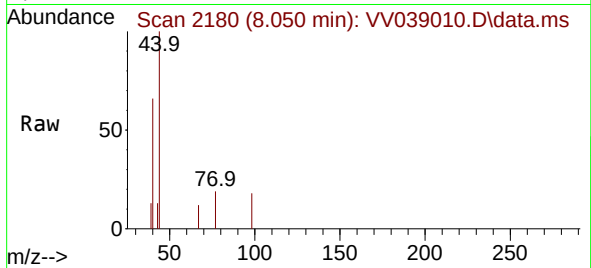




#59
2-Hexanone
Concen: 10.901 ug/l
RT: 8.050 min Scan# 2184
Delta R.T. -0.013 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

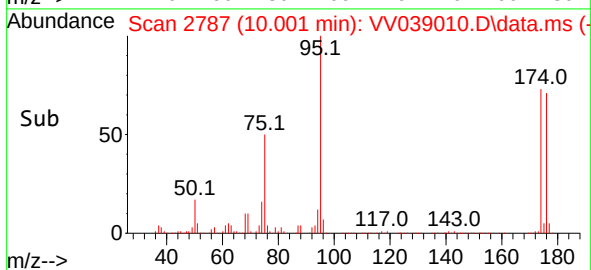
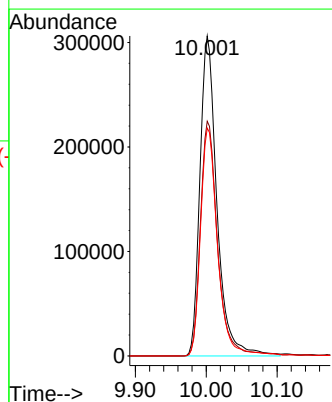
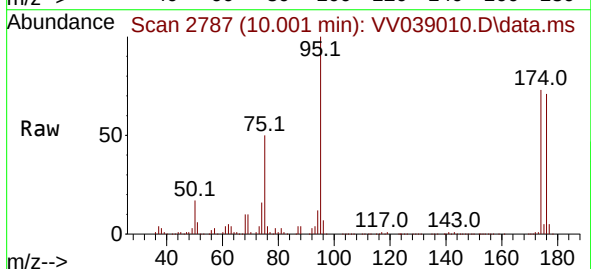
Instrument :
MSVOA_V
ClientSampleId :
VV0822WBL01

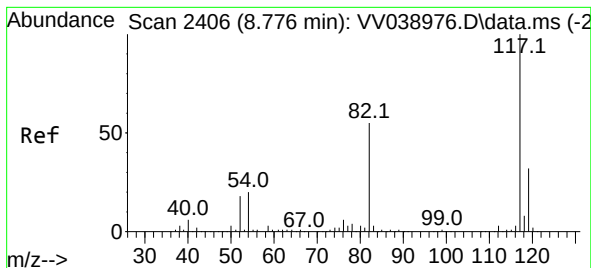
Tgt Ion: 43 Resp: 43
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 49.316 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.000 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 95 Resp: 510781
Ion Ratio Lower Upper
95 100
174 74.0 0.0 154.4
176 71.5 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: VV039010.D

Acq: 22 Aug 2025 10:55

Instrument :

MSVOA_V

ClientSampleId :

VV0822WBL01

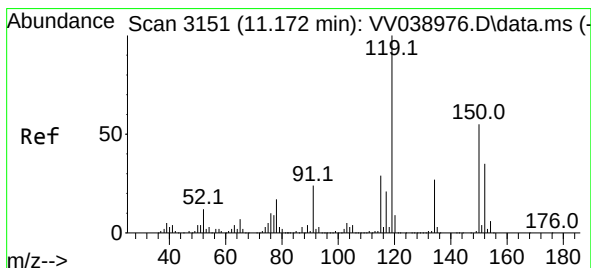
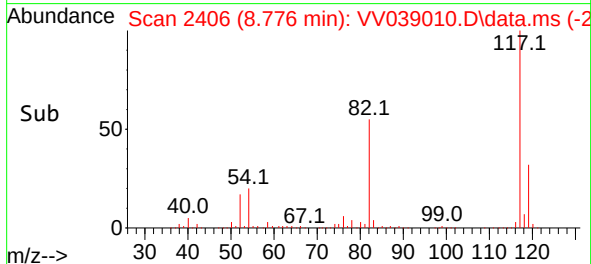
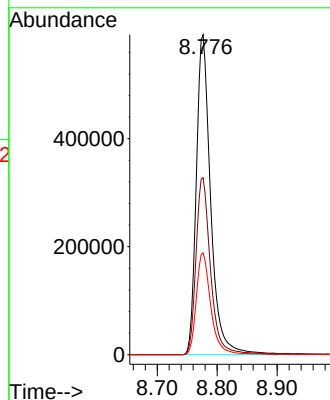
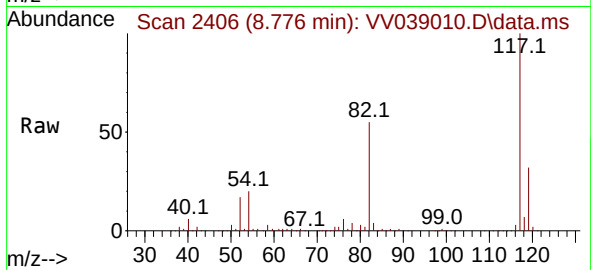
Tgt Ion:117 Resp: 991839

Ion Ratio Lower Upper

117 100

82 55.3 44.4 66.6

119 31.8 26.0 39.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VV039010.D

Acq: 22 Aug 2025 10:55

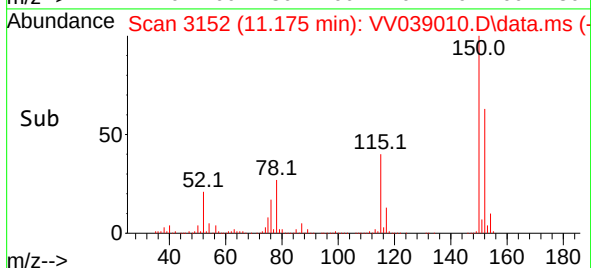
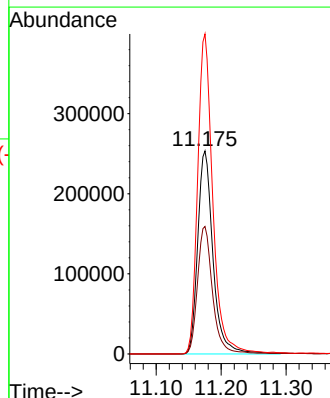
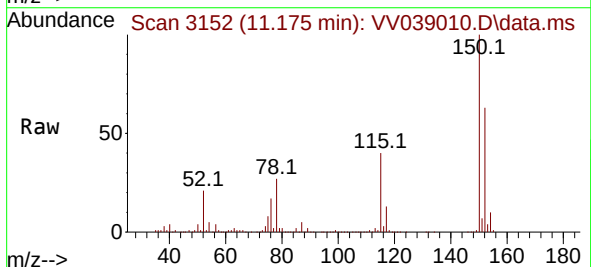
Tgt Ion:152 Resp: 416909

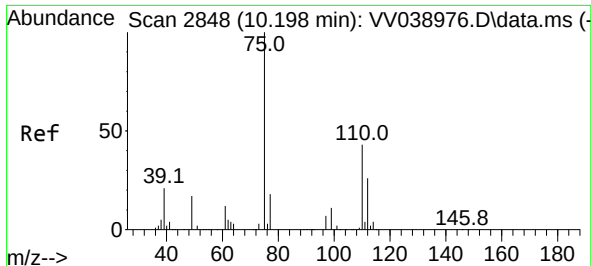
Ion Ratio Lower Upper

152 100

115 62.1 42.5 127.5

150 155.2 0.0 344.8

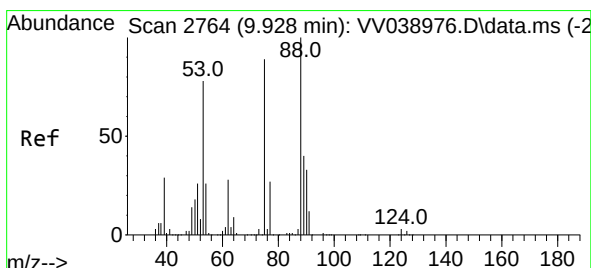
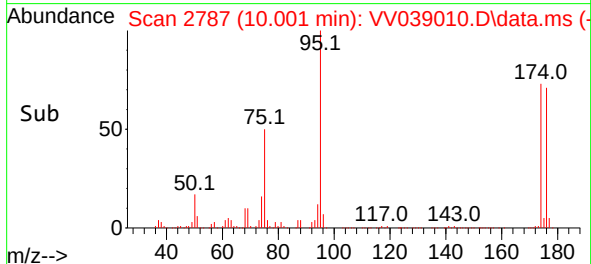
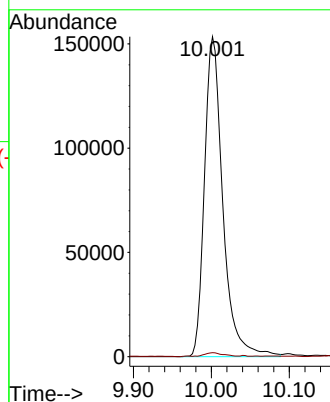
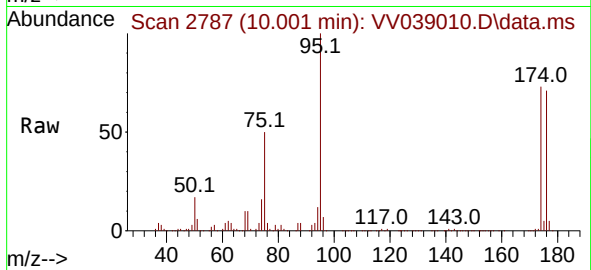




#76
1,2,3-Trichloropropane
Concen: 32.464 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.196 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

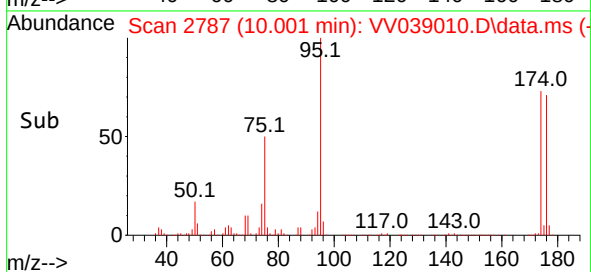
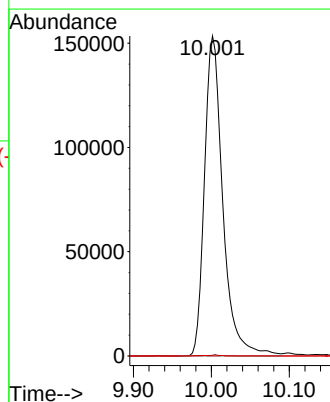
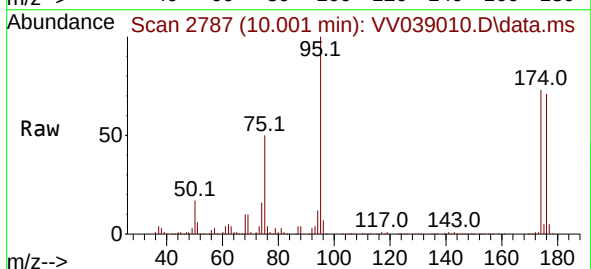
Instrument :
MSVOA_V
ClientSampleId :
VV0822WBL01

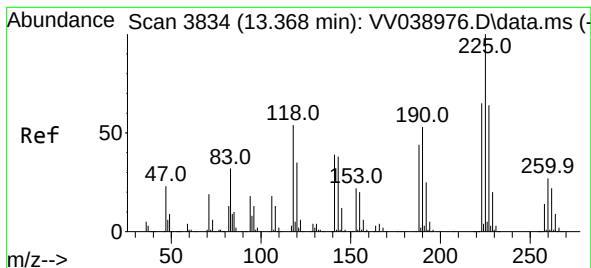
Tgt Ion: 75 Resp: 251045
Ion Ratio Lower Upper
75 100
77 1.2 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.533 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039010.D
Acq: 22 Aug 2025 10:55

Tgt Ion: 75 Resp: 251045
Ion Ratio Lower Upper
75 100
53 0.2 70.3 105.5#
89 0.0 37.9 56.9#





#94

Hexachlorobutadiene

Concen: 0.213 ug/l

RT: 13.374 min Scan# 3836

Delta R.T. 0.006 min

Lab File: VV039010.D

Acq: 22 Aug 2025 10:55

Instrument :

MSVOA_V

ClientSampleId :

VV0822WBL01

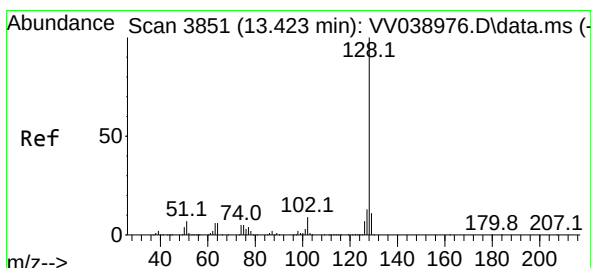
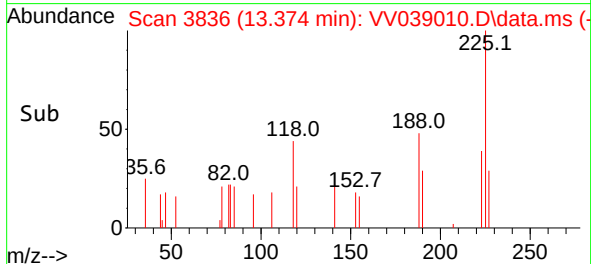
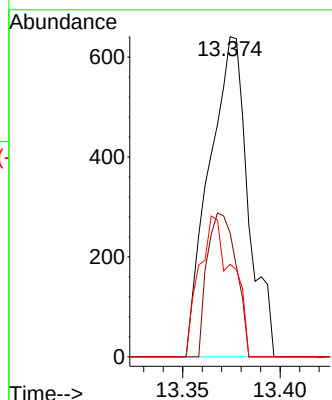
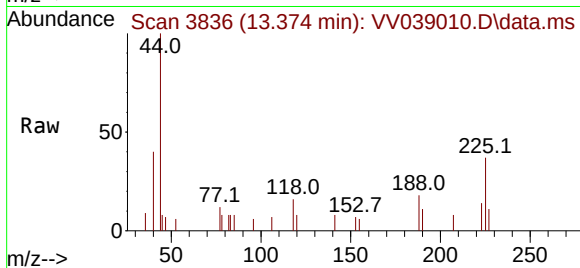
Tgt Ion:225 Resp: 887

Ion Ratio Lower Upper

225 100

223 33.4 31.9 95.7

227 37.3 30.8 92.3



#95

Naphthalene

Concen: 0.528 ug/l

RT: 13.448 min Scan# 3859

Delta R.T. 0.026 min

Lab File: VV039010.D

Acq: 22 Aug 2025 10:55

Tgt Ion:128 Resp: 13462

Ion Ratio Lower Upper

128 100

127 3.5 10.3 15.5#

129 6.6 8.5 12.7#

