

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039151.D
 Acq On : 24 Sep 2025 14:46
 Operator : SY/MD
 Sample : Q3173-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 Field Blank

Quant Time: Sep 25 04:46:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

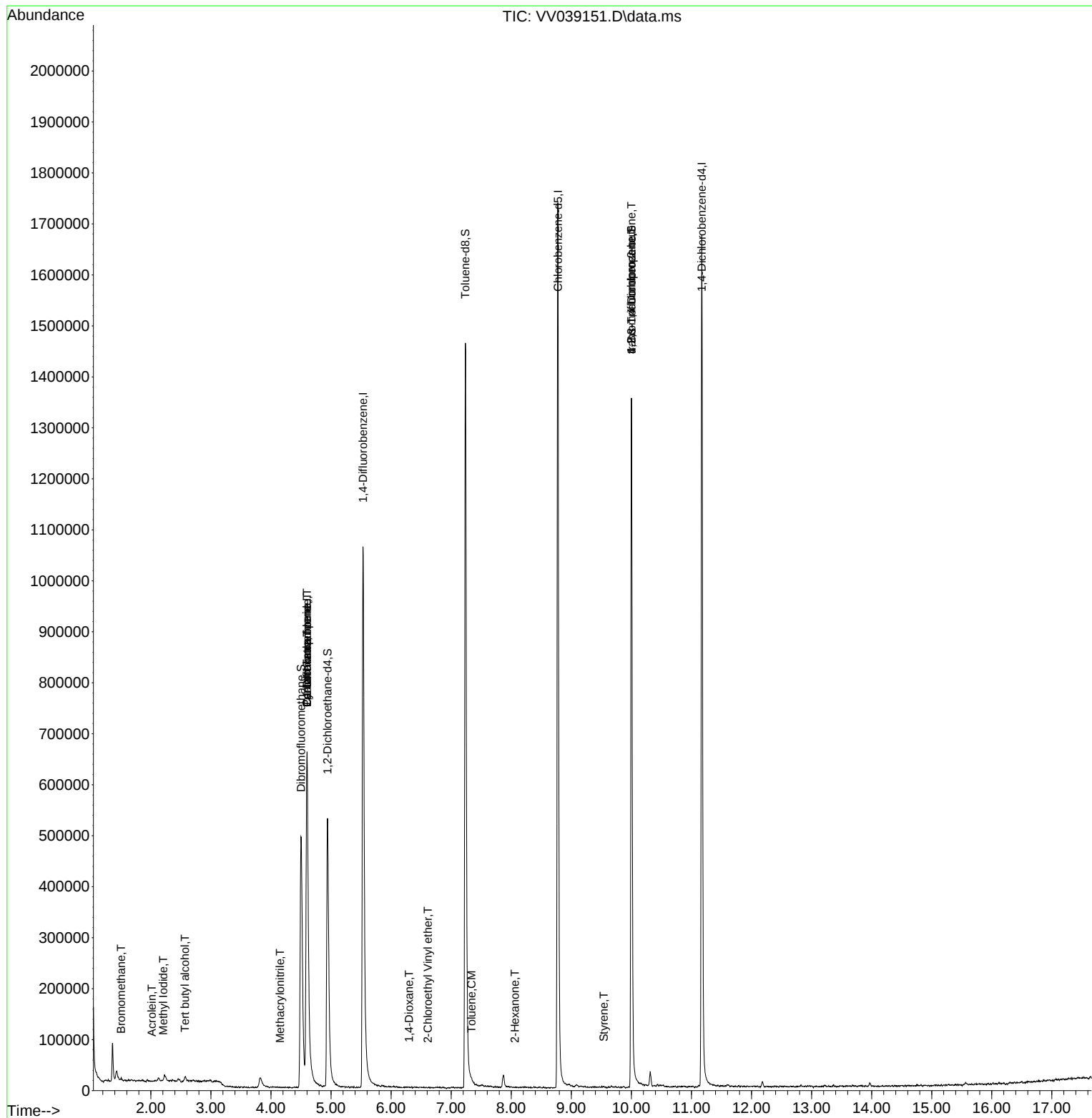
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	552493	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1029152	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	962323	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	434712	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	462839	57.882	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	115.760%
35) Dibromofluoromethane	4.500	113	418508	50.584	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	101.160%
50) Toluene-d8	7.236	98	1060720	43.652	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	87.300%#
62) 4-Bromofluorobenzene	10.001	95	446507	44.635	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	89.280%
Target Compounds						
						Qvalue
5) Bromomethane	1.503	94	1738	0.274	ug/l #	68
6) Chloroethane	1.564	64	602	Below Cal	#	56
10) Methyl Iodide	2.208	142	1988	0.241	ug/l #	85
11) Tert butyl alcohol	2.568	59	2874	1.701	ug/l	97
13) Acrolein	2.015	56	141	0.481	ug/l #	1
16) Acetone	2.124	43	7968	Below Cal		95
20) Methylene Chloride	2.462	84	2093	Below Cal	#	63
31) Cyclohexane	4.600	56	13638	0.956	ug/l #	15
36) 1,1-Dichloropropene	4.600	75	50278	4.019	ug/l #	44
38) Carbon Tetrachloride	4.600	117	61811	4.043	ug/l #	17
41) Methacrylonitrile	4.153	41	38	1.916	ug/l #	1
49) 1,4-Dioxane	6.297	88	50	0.330	ug/l #	1
52) Toluene	7.336	92	4724	0.200	ug/l	86
58) 2-Chloroethyl Vinyl ether	6.613	63	185	9.648	ug/l	99
59) 2-Hexanone	8.059	43	179	2.342	ug/l	85
70) Styrene	9.538	104	274	1.570	ug/l #	56
76) 1,2,3-Trichloropropane	10.001	75	231684	23.408	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	231684	56.195	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.329	75	96	Below Cal	#	29

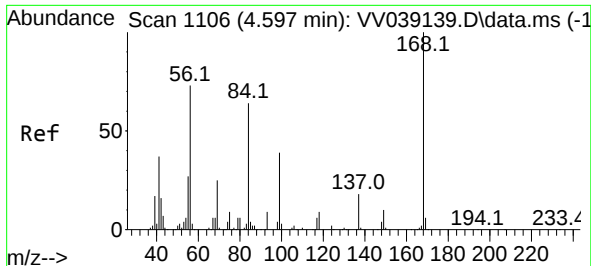
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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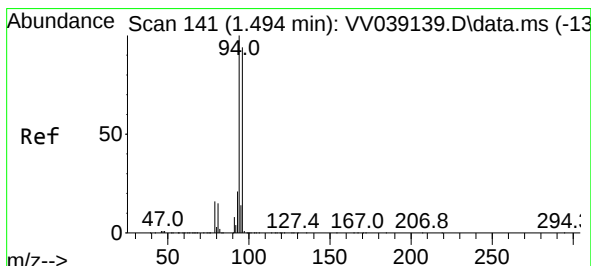
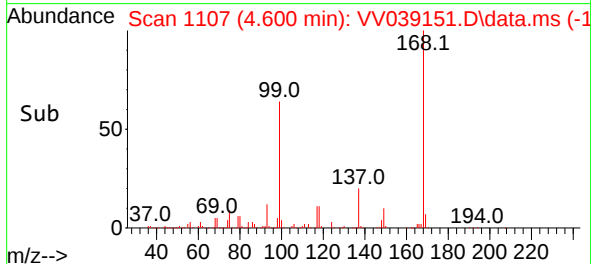
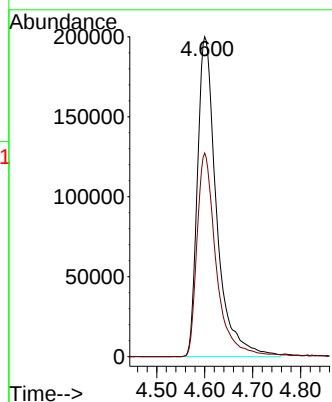
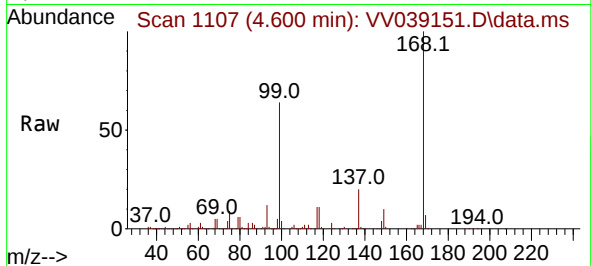




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

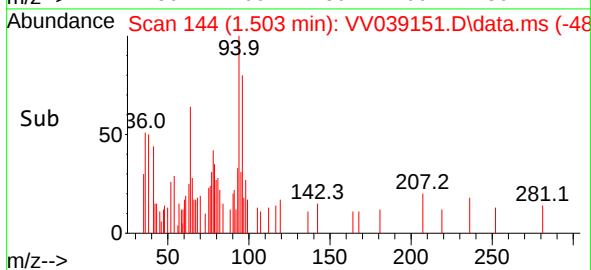
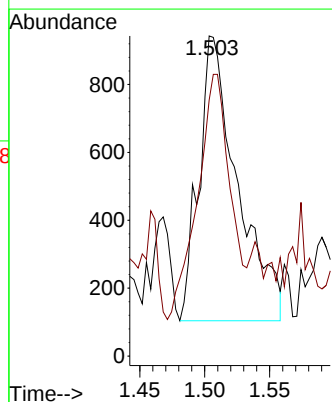
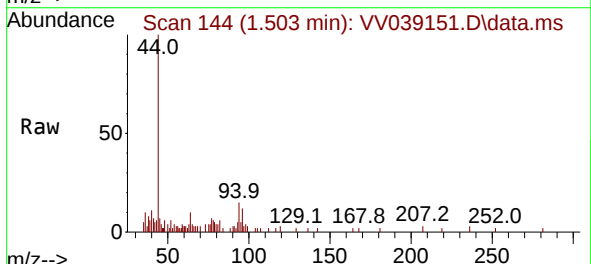
Instrument :
MSVOA_V
ClientSampleId :
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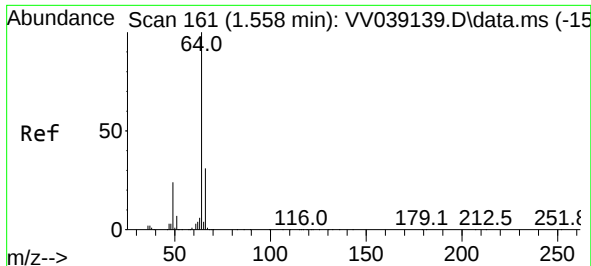
Tgt Ion:168 Resp: 552493
Ion Ratio Lower Upper
168 100
99 63.6 49.6 74.4



#5
Bromomethane
Concen: 0.274 ug/l
RT: 1.503 min Scan# 144
Delta R.T. 0.009 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 94 Resp: 1738
Ion Ratio Lower Upper
94 100
96 62.6 74.9 112.3#

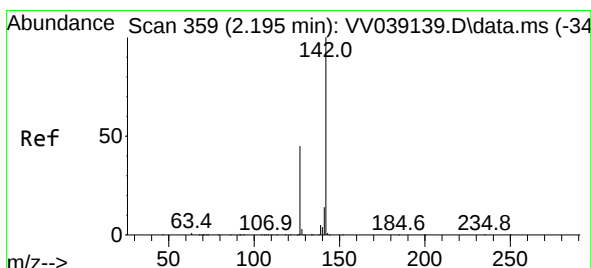
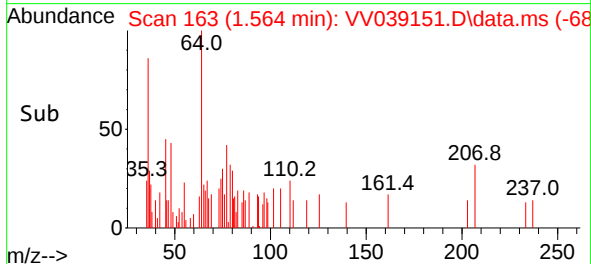
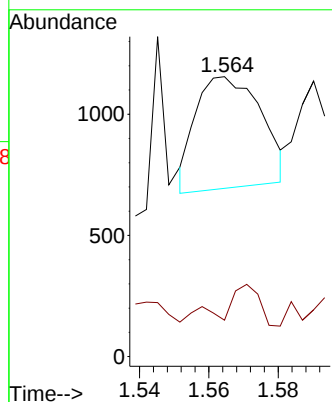
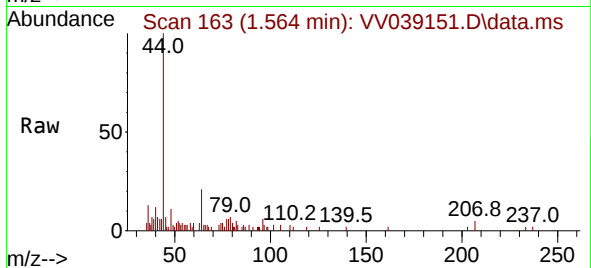




#6
Chloroethane
Concen: Below Cal
RT: 1.564 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

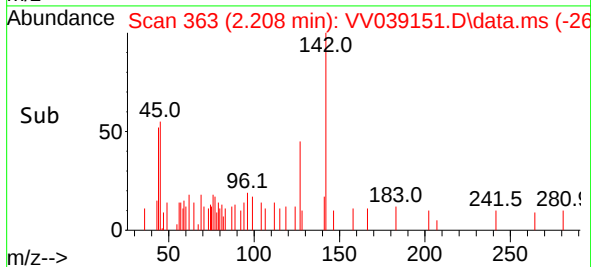
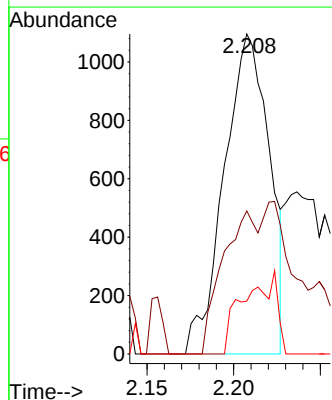
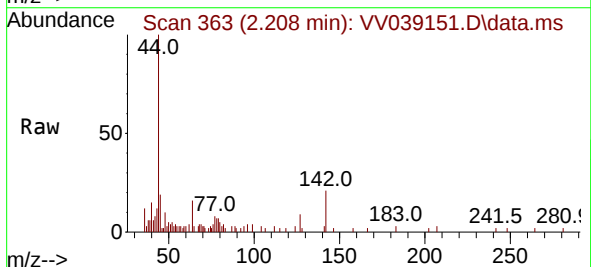
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MSVOA_V
ClientSampleId :
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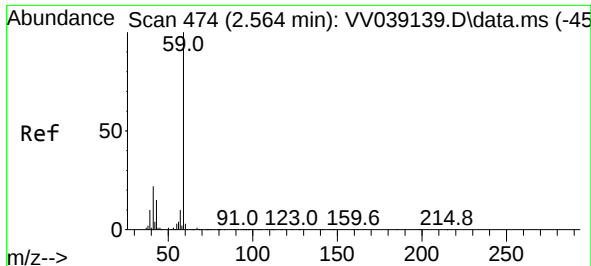
Tgt Ion: 64 Resp: 602
Ion Ratio Lower Upper
64 100
66 6.4 24.6 36.8#



#10
Methyl Iodide
Concen: 0.241 ug/l
RT: 2.208 min Scan# 363
Delta R.T. 0.013 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 142 Resp: 1988
Ion Ratio Lower Upper
142 100
127 34.6 36.3 54.5#
141 18.8 11.2 16.8#





#11

Tert butyl alcohol

Concen: 1.701 ug/l

RT: 2.568 min Scan# 41

Delta R.T. 0.003 min

Lab File: VV039151.D

Acq: 24 Sep 2025 14:46

Instrument :

MSVOA_V

ClientSampleId :

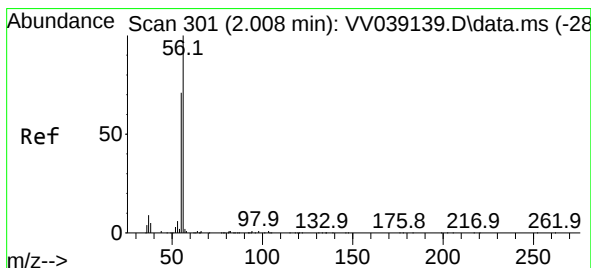
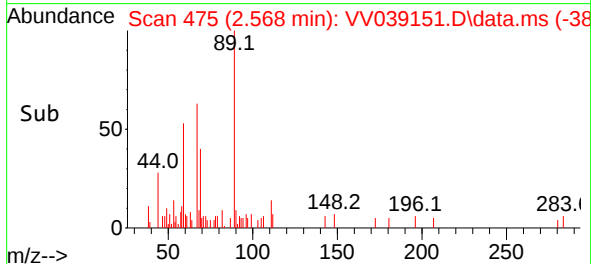
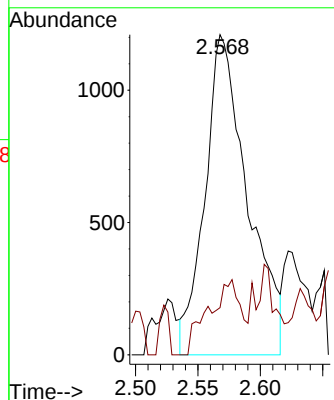
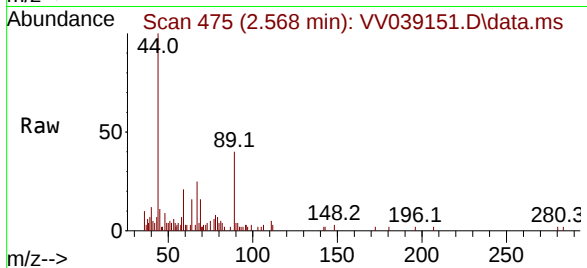
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Tgt Ion: 59 Resp: 2874

Ion Ratio Lower Upper

59 100

57 11.0 7.8 11.8



#13

Acrolein

Concen: 0.481 ug/l

RT: 2.015 min Scan# 303

Delta R.T. 0.006 min

Lab File: VV039151.D

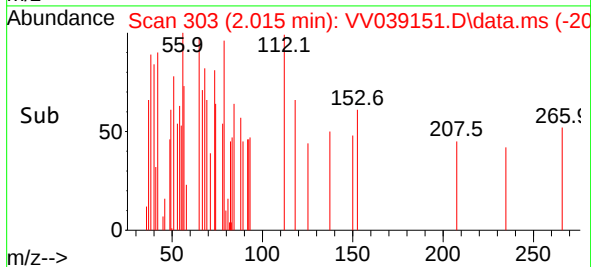
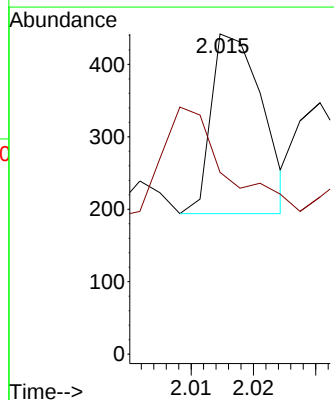
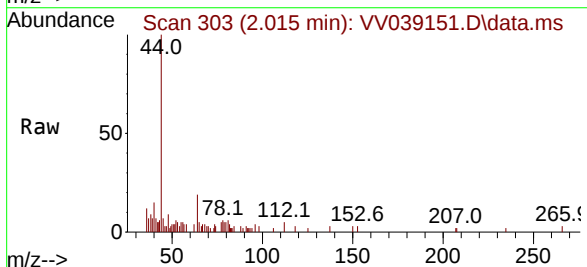
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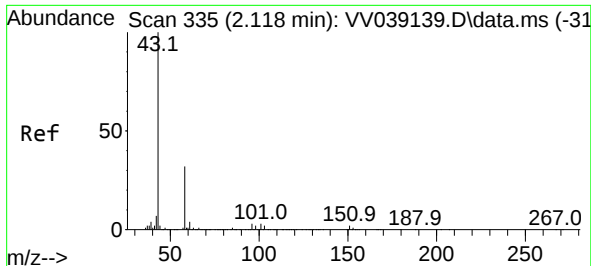
Tgt Ion: 56 Resp: 141

Ion Ratio Lower Upper

56 100

55 376.6 56.2 84.4#

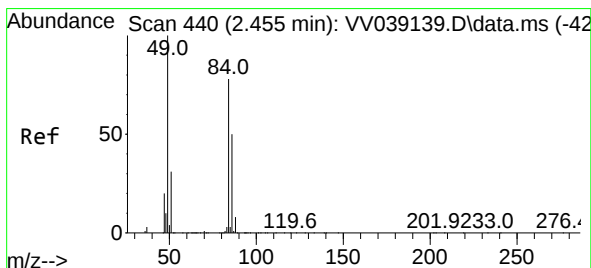
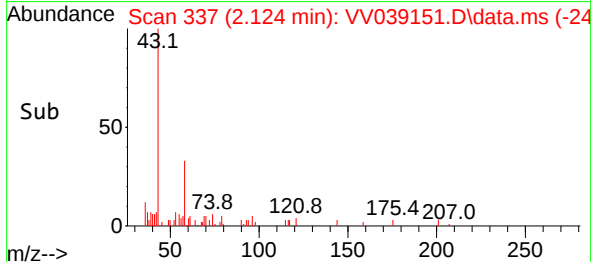
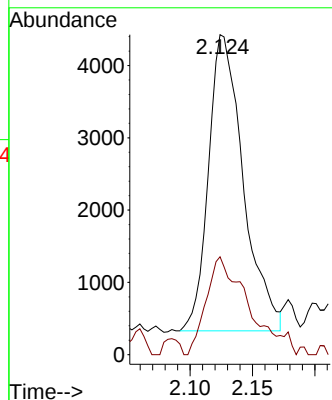
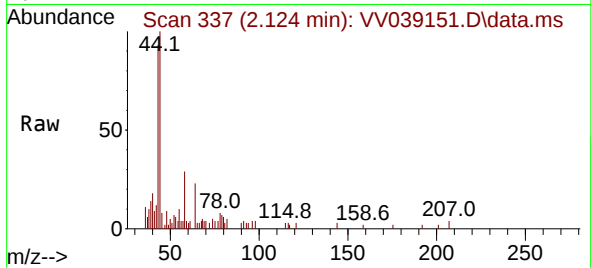




#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

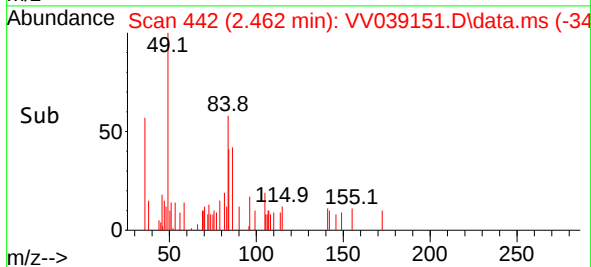
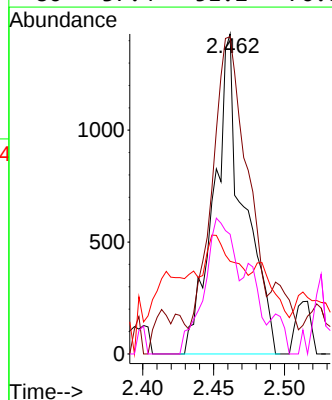
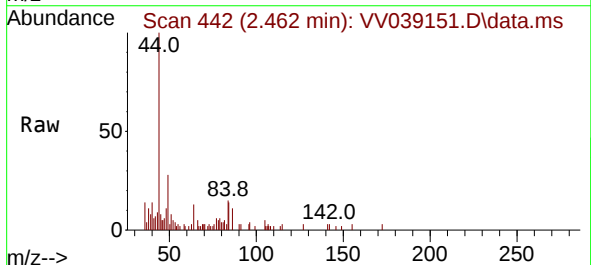
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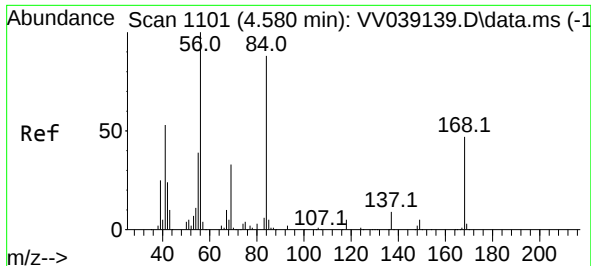
Tgt Ion: 43 Resp: 7968
Ion Ratio Lower Upper
43 100
58 29.4 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.462 min Scan# 442
Delta R.T. 0.007 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 84 Resp: 2093
Ion Ratio Lower Upper
84 100
49 87.1 102.8 154.2#
51 12.0 31.9 47.9#
86 37.4 51.2 76.8#

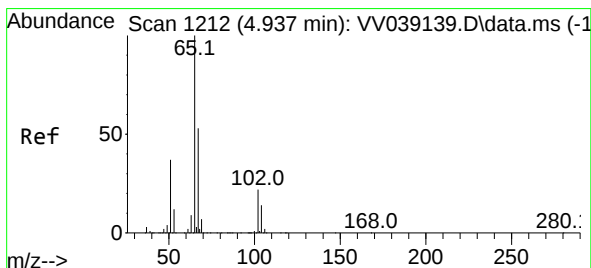
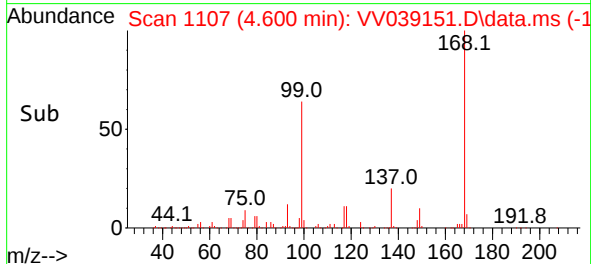
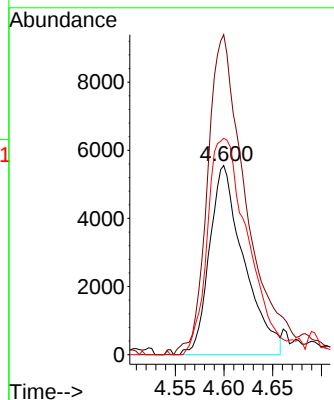
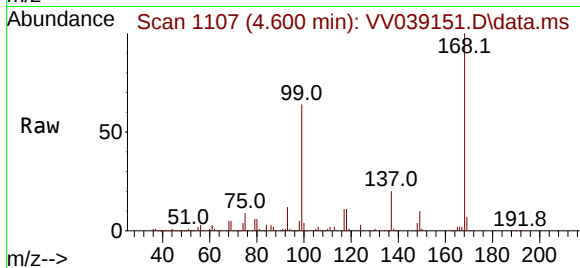




#31
Cyclohexane
Concen: 0.956 ug/l
RT: 4.600 min Scan# 1101
Delta R.T. 0.019 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

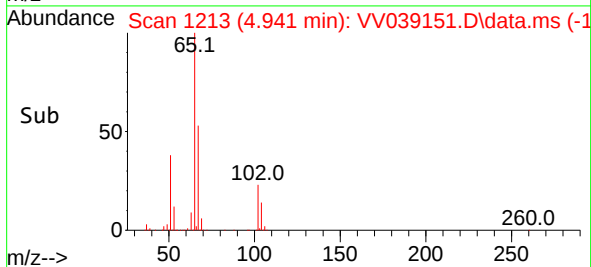
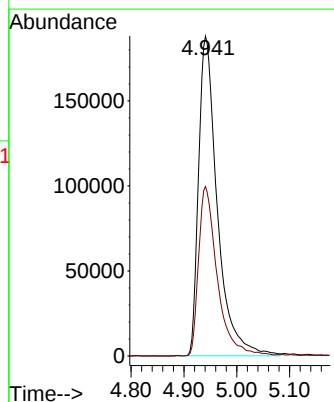
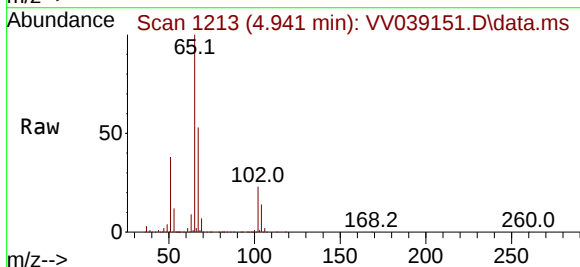
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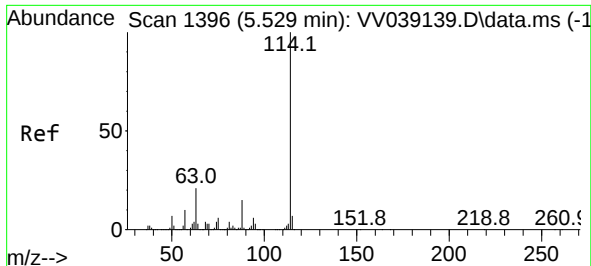
Tgt Ion: 56 Resp: 13638
Ion Ratio Lower Upper
56 100
69 165.0 26.2 39.2#
84 114.4 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 57.882 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 65 Resp: 462839
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 114

Delta R.T. 0.003 min

Lab File: VV039151.D

Acq: 24 Sep 2025 14:46

Instrument :

MSVOA_V

ClientSampleId :

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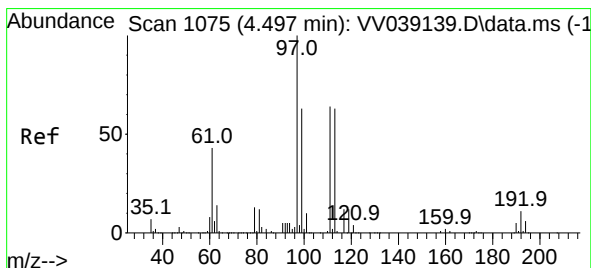
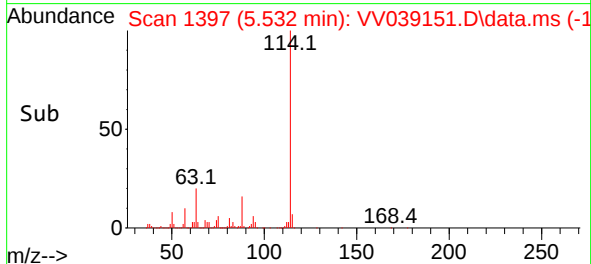
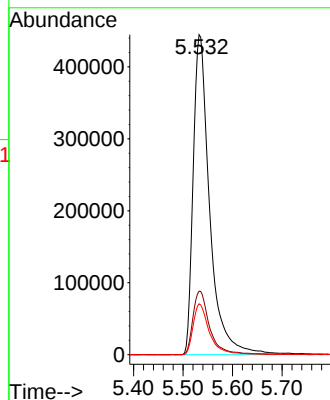
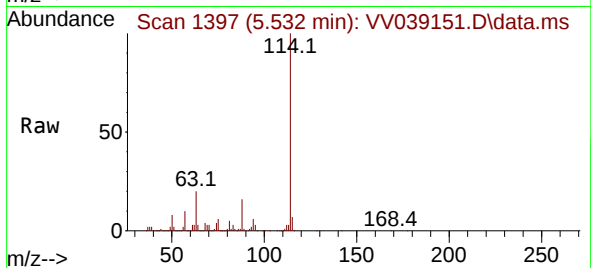
Tgt Ion:114 Resp: 1029152

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 15.9 0.0 30.8



#35

Dibromofluoromethane

Concen: 50.584 ug/l

RT: 4.500 min Scan# 1076

Delta R.T. 0.003 min

Lab File: VV039151.D

Acq: 24 Sep 2025 14:46

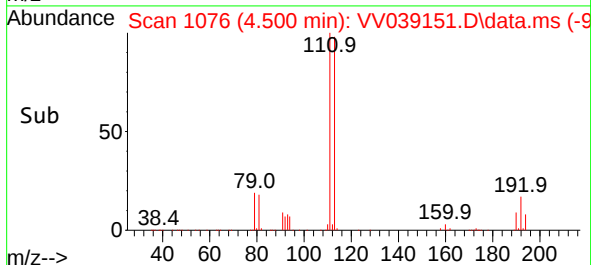
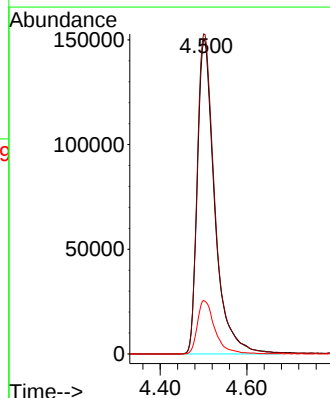
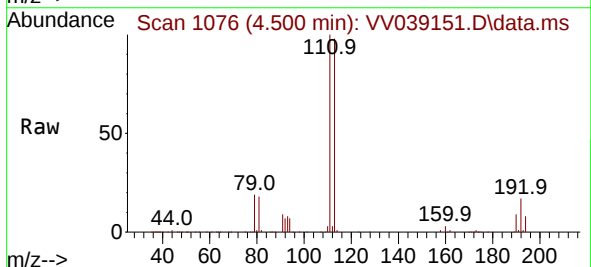
Tgt Ion:113 Resp: 418508

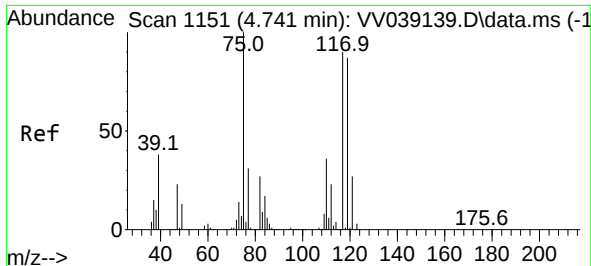
Ion Ratio Lower Upper

113 100

111 102.4 82.4 123.6

192 17.0 13.8 20.8

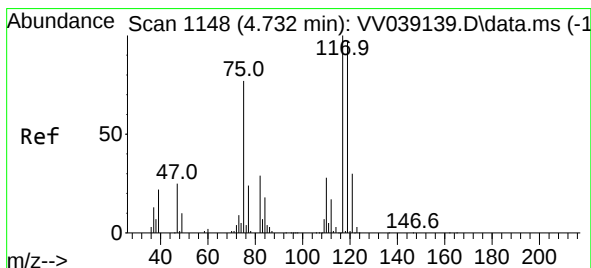
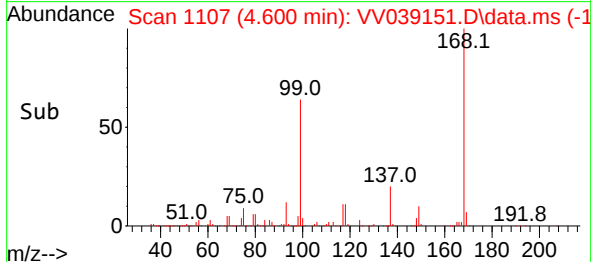
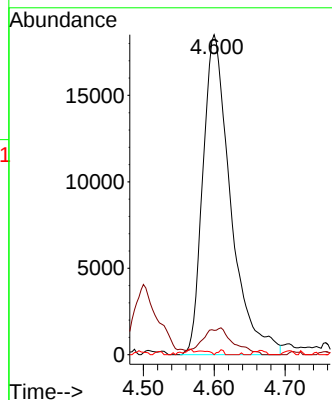
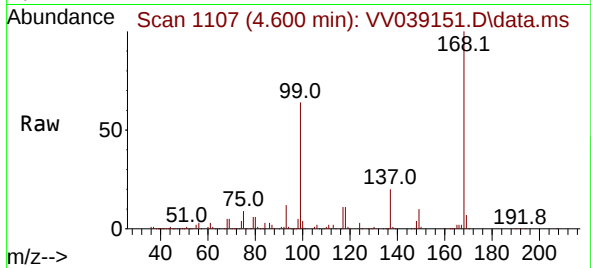




#36
1,1-Dichloropropene
Concen: 4.019 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

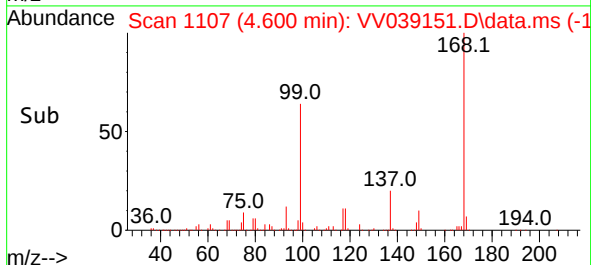
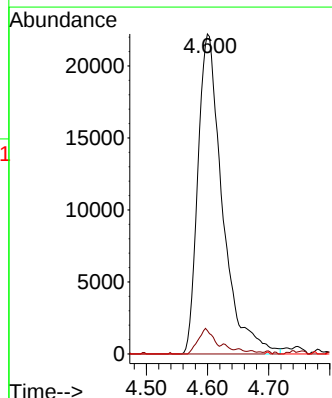
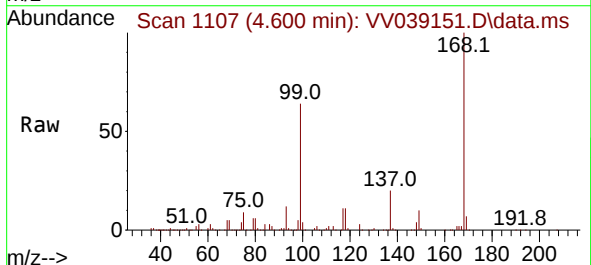
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MSVOA_V
ClientSampleId :
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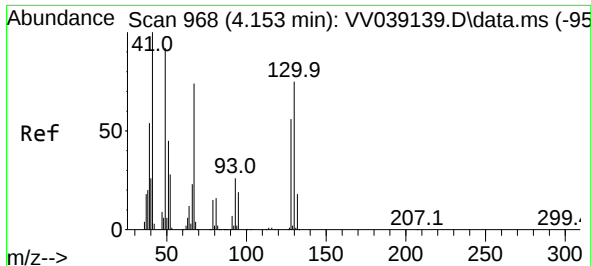
Tgt Ion: 75 Resp: 50278
Ion Ratio Lower Upper
75 100
110 2.8 18.1 54.1#
77 0.3 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 4.043 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.132 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 117 Resp: 61811
Ion Ratio Lower Upper
117 100
119 7.3 77.2 115.8#
121 0.0 24.2 36.2#

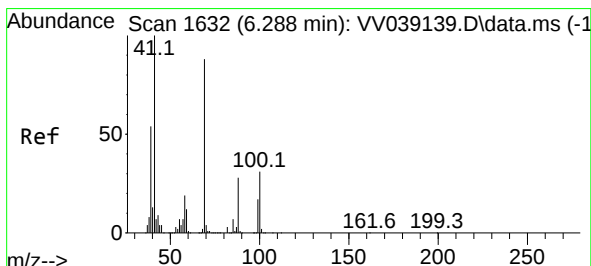
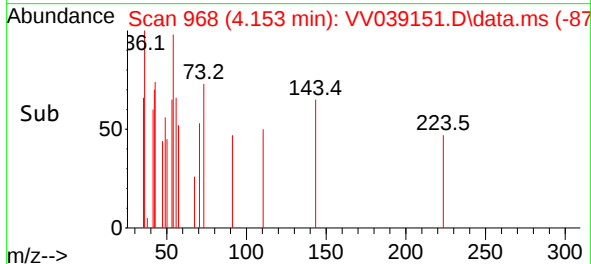
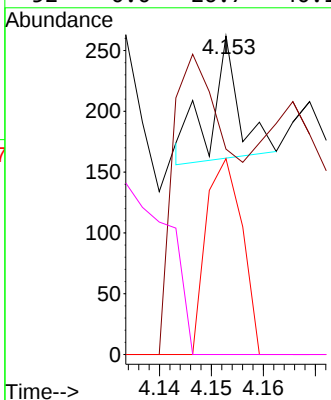
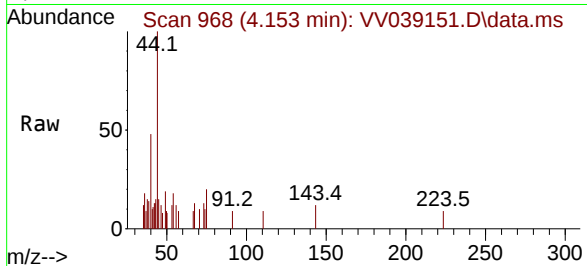




#41
Methacrylonitrile
Concen: 1.916 ug/l
RT: 4.153 min Scan# 90
Delta R.T. -0.000 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

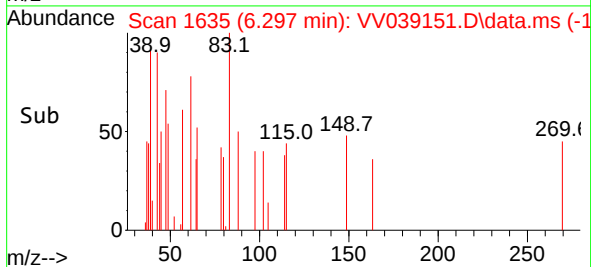
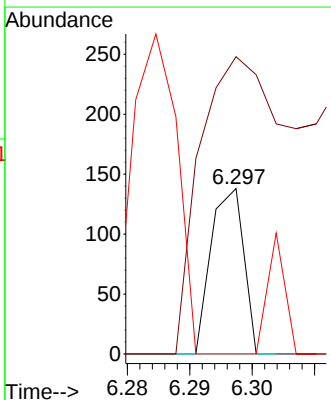
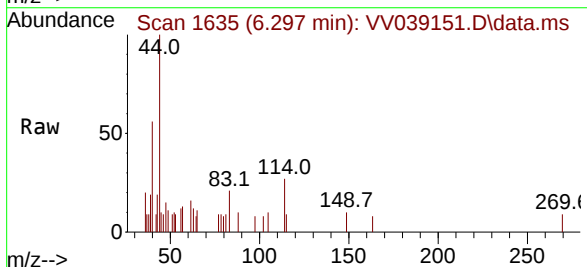
Instrument :
MSVOA_V
ClientSampleId :
Field Blank

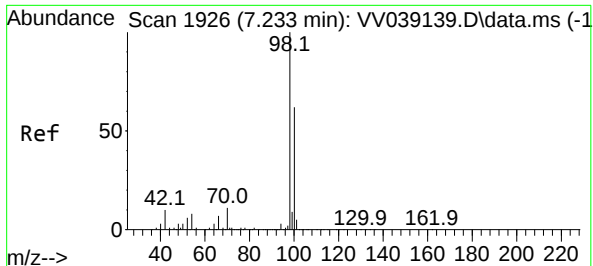
Tgt Ion:	41	Resp:	38
Ion	Ratio	Lower	Upper
41	100		
39	507.9	42.2	63.2#
67	202.6	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.330 ug/l
RT: 6.297 min Scan# 1635
Delta R.T. 0.010 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion:	88	Resp:	50
Ion	Ratio	Lower	Upper
88	100		
43	480.0	25.1	37.7#
58	38.0	53.6	80.4#

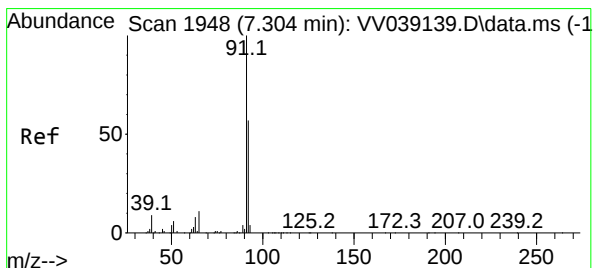
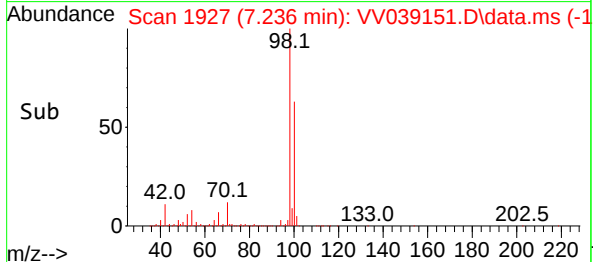
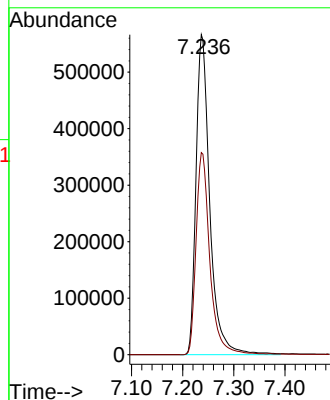
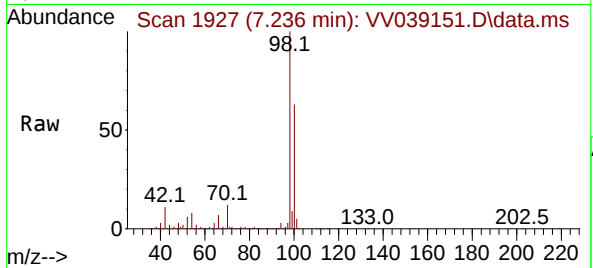




#50
Toluene-d8
Concen: 43.652 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

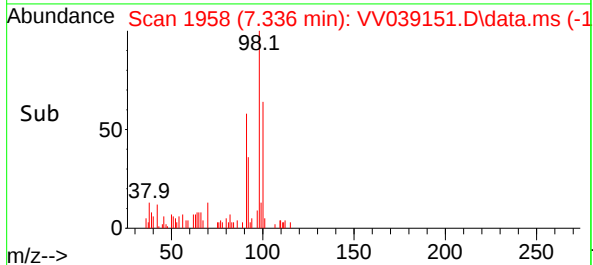
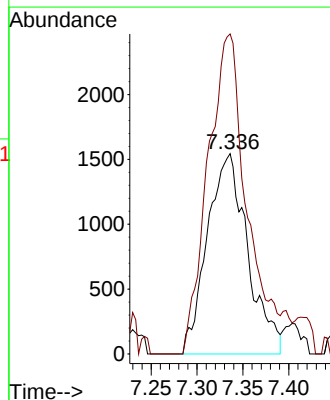
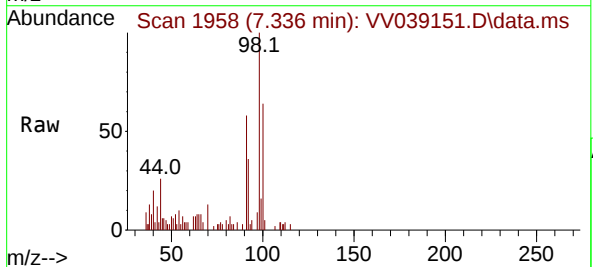
Instrument :
MSVOA_V
ClientSampleId :
Field Blank

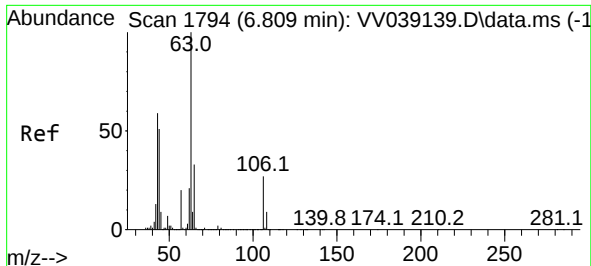
Tgt Ion: 98 Resp: 1060720
Ion Ratio Lower Upper
98 100
100 63.4 52.2 78.2



#52
Toluene
Concen: 0.200 ug/l
RT: 7.336 min Scan# 1958
Delta R.T. 0.032 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 92 Resp: 4724
Ion Ratio Lower Upper
92 100
91 154.0 139.2 208.8

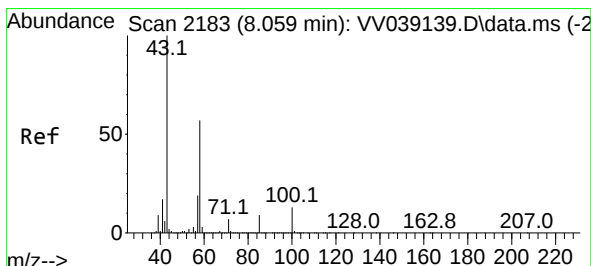
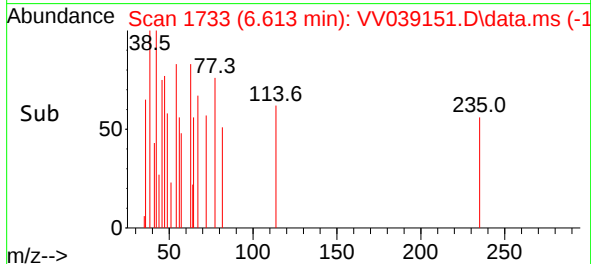
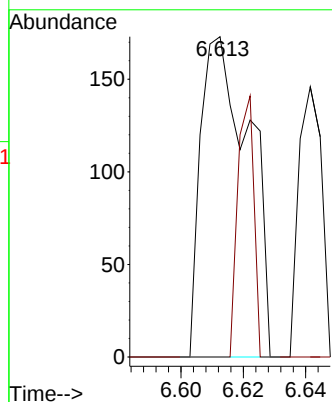
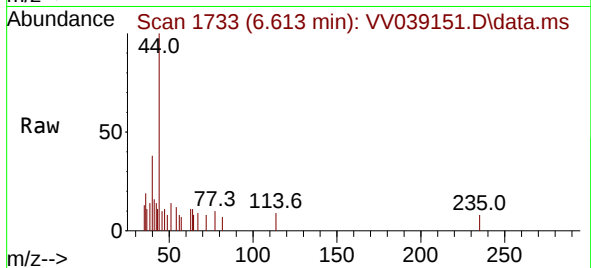




#58
2-Chloroethyl Vinyl ether
Concen: 9.648 ug/l
RT: 6.613 min Scan# 1794
Delta R.T. -0.196 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

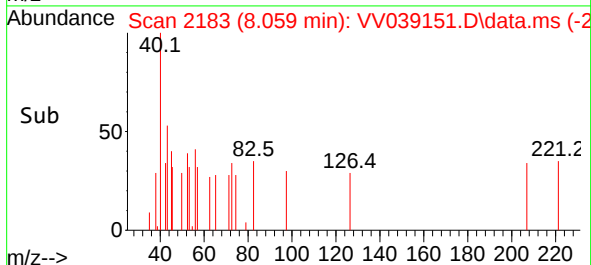
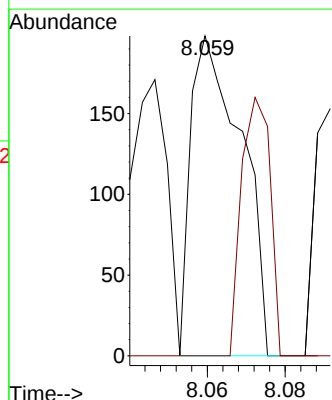
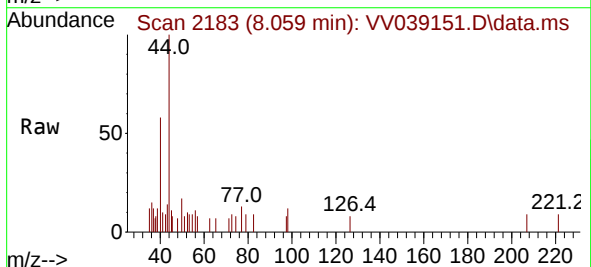
Instrument :
MSVOA_V
ClientSampleId :
Field Blank

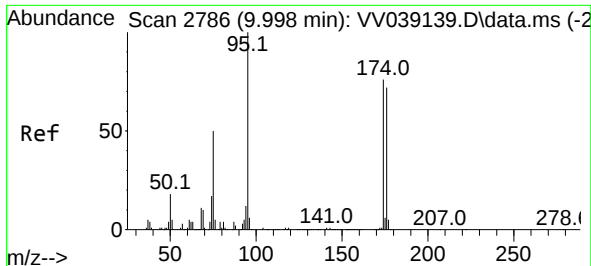
Tgt Ion: 63 Resp: 185
Ion Ratio Lower Upper
63 100
106 27.0 22.1 33.1



#59
2-Hexanone
Concen: 2.342 ug/l
RT: 8.059 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 43 Resp: 179
Ion Ratio Lower Upper
43 100
58 45.8 28.3 85.0

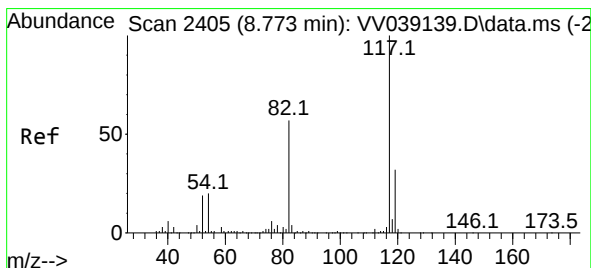
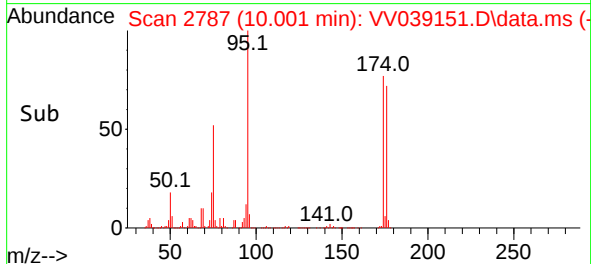
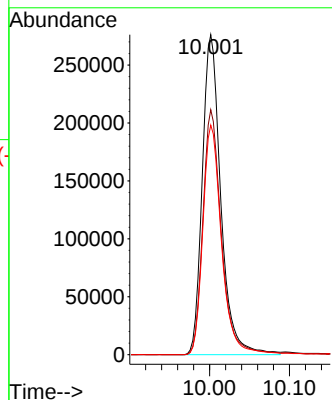
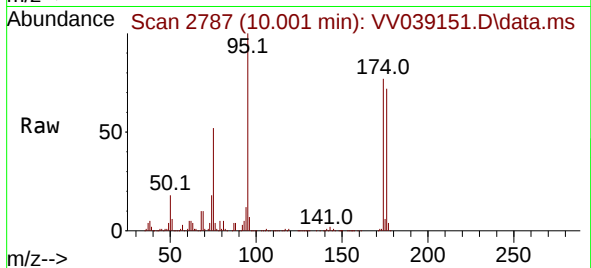




#62
4-Bromofluorobenzene
Concen: 44.635 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

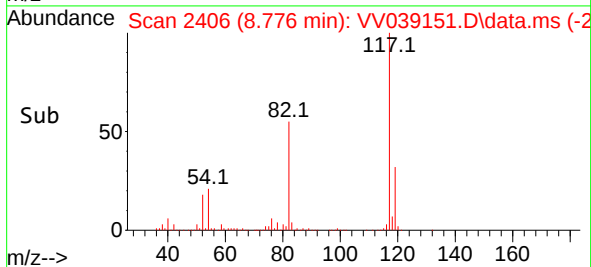
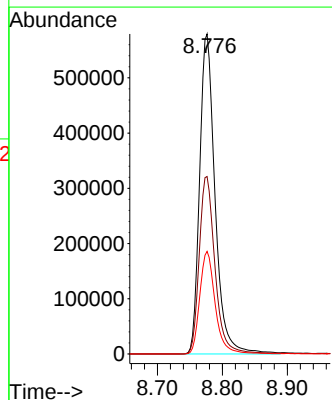
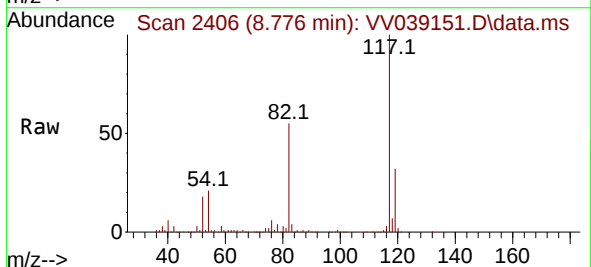
Instrument :
MSVOA_V
ClientSampleId :
Field Blank

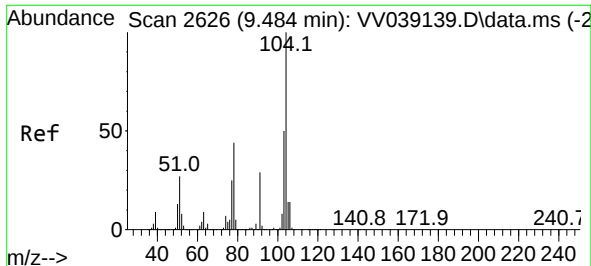
Tgt Ion: 95 Resp: 446507
Ion Ratio Lower Upper
95 100
174 76.7 0.0 150.4
176 72.8 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 117 Resp: 962323
Ion Ratio Lower Upper
117 100
82 55.5 45.4 68.2
119 32.0 25.6 38.4

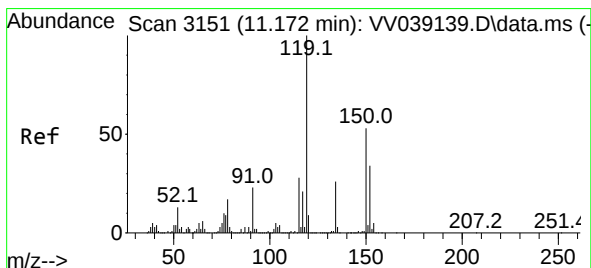
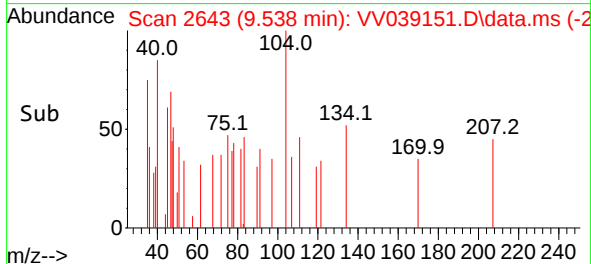
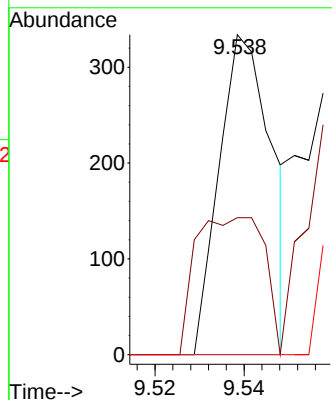
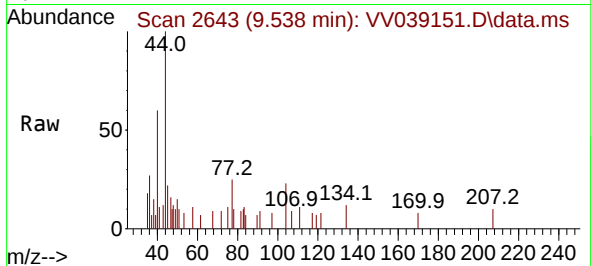




#70
Styrene
Concen: 1.570 ug/l
RT: 9.538 min Scan# 2643
Delta R.T. 0.054 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

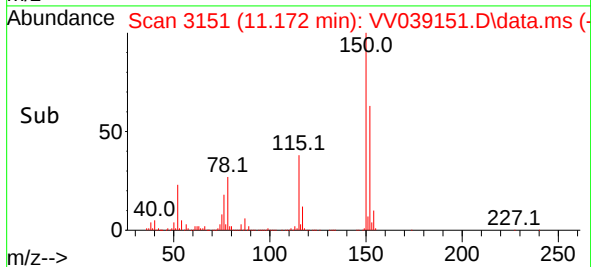
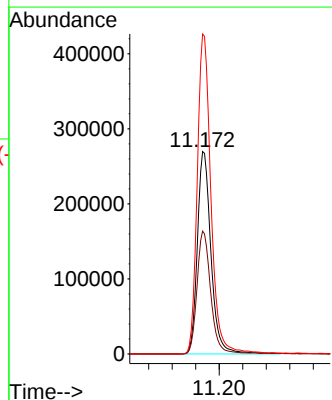
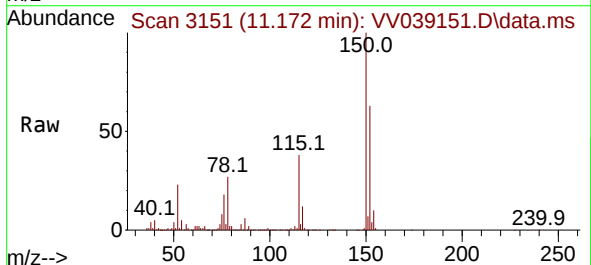
Instrument :
MSVOA_V
ClientSampleId :
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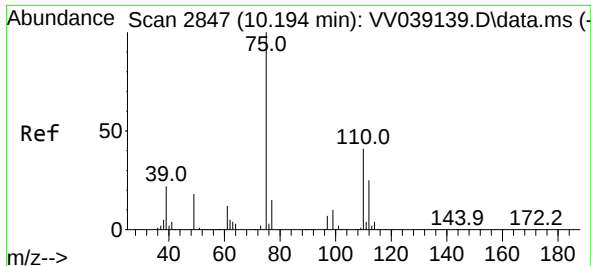
Tgt Ion:104 Resp: 274
Ion Ratio Lower Upper
104 100
78 55.8 39.8 59.6
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion:152 Resp: 434712
Ion Ratio Lower Upper
152 100
115 60.7 44.8 134.4
150 158.3 0.0 353.8

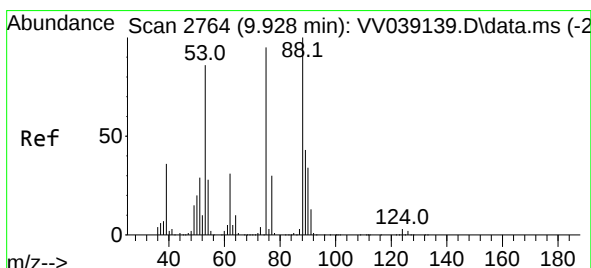
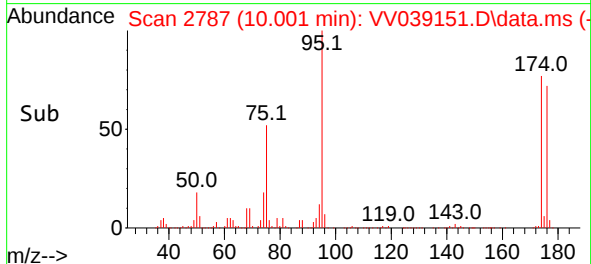
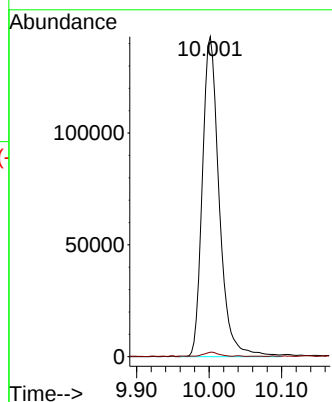
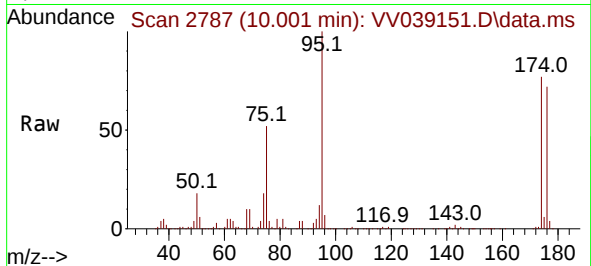




#76
1,2,3-Trichloropropane
Concen: 23.408 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

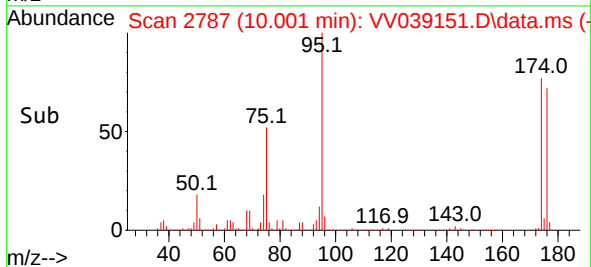
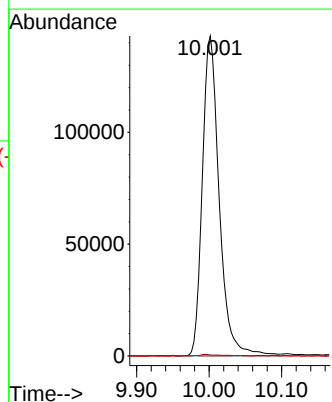
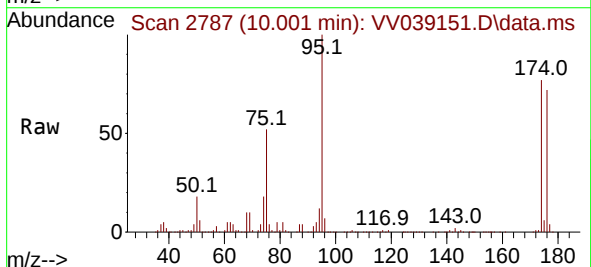
Instrument :
MSVOA_V
ClientSampleId :
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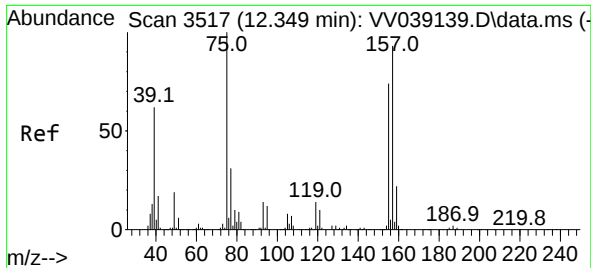
Tgt Ion: 75 Resp: 231684
Ion Ratio Lower Upper
75 100
77 1.2 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.195 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039151.D
Acq: 24 Sep 2025 14:46

Tgt Ion: 75 Resp: 231684
Ion Ratio Lower Upper
75 100
53 0.5 72.5 108.7#
89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.329 min Scan# 31

Delta R.T. -0.020 min

Lab File: VV039151.D

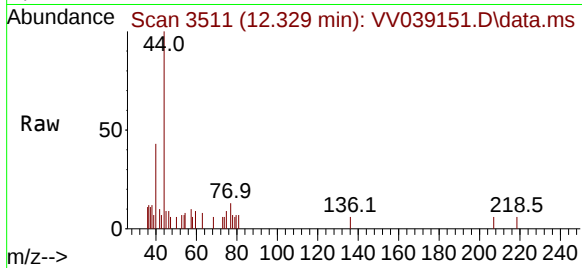
Acq: 24 Sep 2025 14:46

Instrument :

MSVOA_V

ClientSampleId :

Field Blank



Tgt Ion: 75 Resp: 96

Ion Ratio Lower Upper

75 100

155 24.0 38.6 115.8#

157 20.8 49.5 148.3#

