

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
 Data File : VV039205.D
 Acq On : 26 Sep 2025 12:21
 Operator : SY/MD
 Sample : Q3195-04 100X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-4-091625

Quant Time: Sep 27 02:53:42 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)

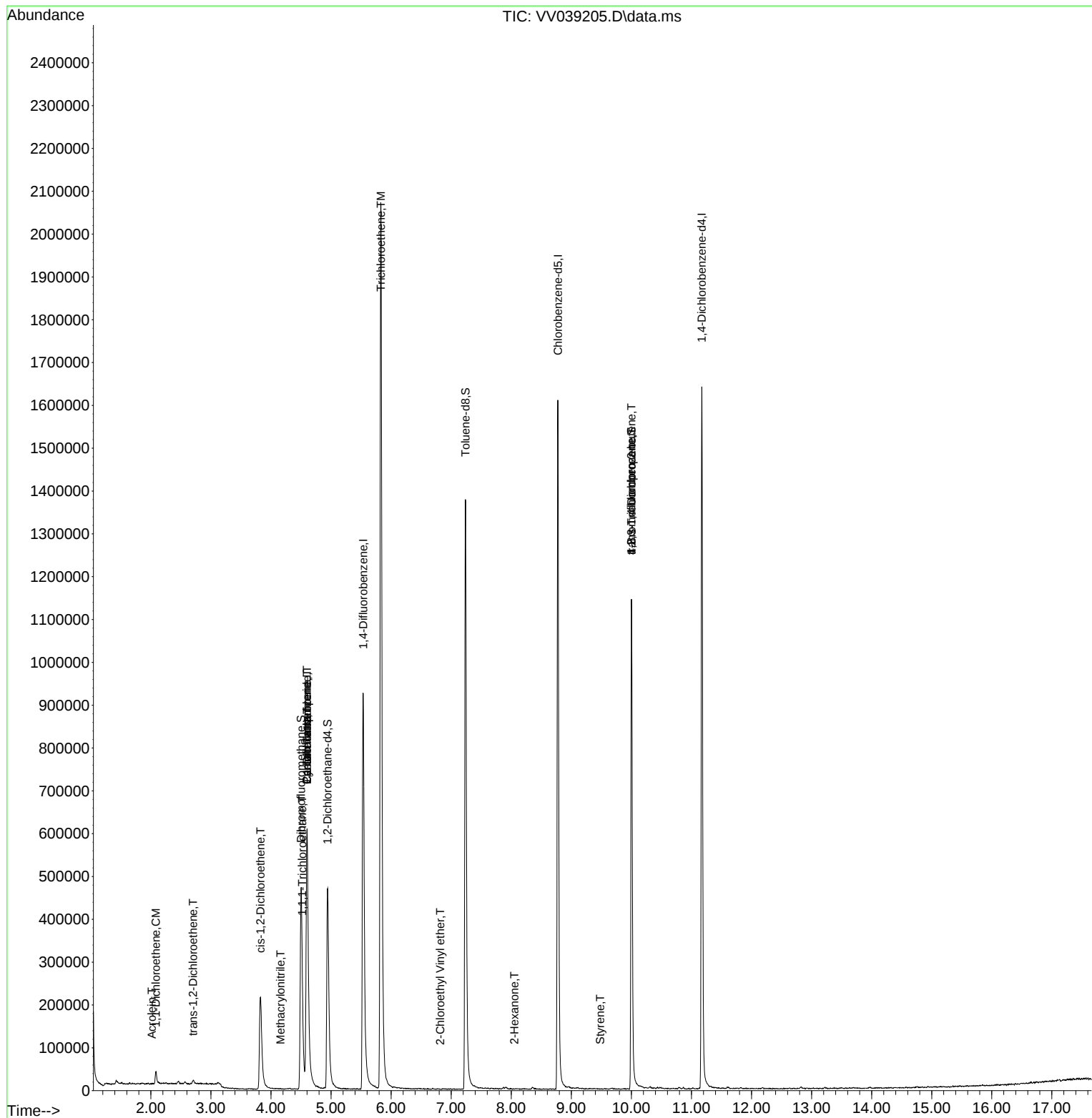
Internal Standards						
1) Pentafluorobenzene	4.600	168	513652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	924164	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	911885	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	438479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	416085	55.970	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	111.940%
35) Dibromofluoromethane	4.503	113	392713	52.858	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	105.720%
50) Toluene-d8	7.239	98	1008875	46.235	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	92.460%
62) 4-Bromofluorobenzene	10.001	95	396215	44.107	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	88.220%
Target Compounds						
					Qvalue	
6) Chloroethane	1.551	64	204	Below Cal	#	87
12) 1,1-Dichloroethene	2.082	96	11345	1.465	ug/l	96
13) Acrolein	2.018	56	64	0.235	ug/l #	15
16) Acetone	2.130	43	759	Below Cal	#	84
20) Methylene Chloride	2.461	84	2483	Below Cal	#	86
21) trans-1,2-Dichloroethene	2.703	96	3163	0.384	ug/l	93
27) cis-1,2-Dichloroethene	3.825	96	144878	15.933	ug/l	87
31) Cyclohexane	4.600	56	11508	0.868	ug/l #	1
32) 1,1,1-Trichloroethane	4.519	97	3557	0.243	ug/l #	42
36) 1,1-Dichloropropene	4.600	75	45907	4.087	ug/l #	49
38) Carbon Tetrachloride	4.600	117	56280	4.100	ug/l #	18
41) Methacrylonitrile	4.159	41	20	1.914	ug/l #	1
44) Trichloroethene	5.831	130	804569	95.322	ug/l	99
58) 2-Chloroethyl Vinyl ether	6.818	63	75	9.634	ug/l #	47
59) 2-Hexanone	8.053	43	48	2.330	ug/l	64
70) Styrene	9.480	104	49	1.563	ug/l #	57
76) 1,2,3-Trichloropropane	10.001	75	195844	19.617	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	195844	47.094	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.345	75	103	Below Cal	#	5

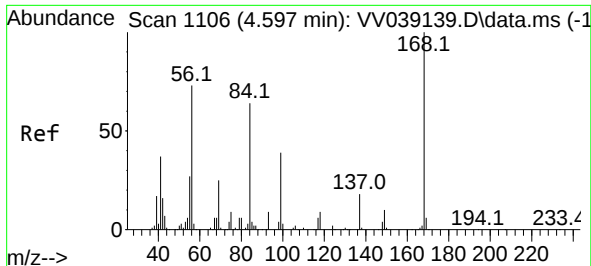
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

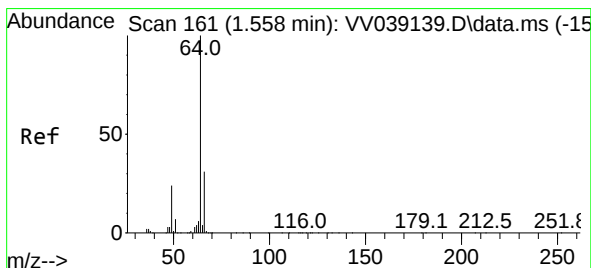
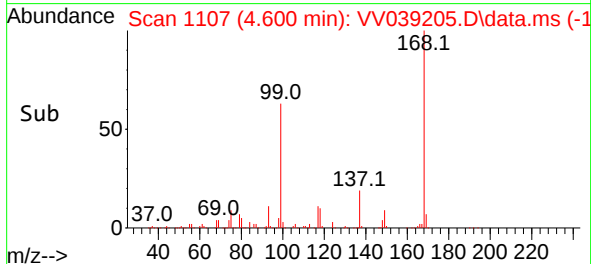
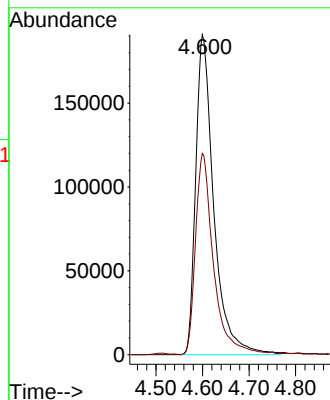
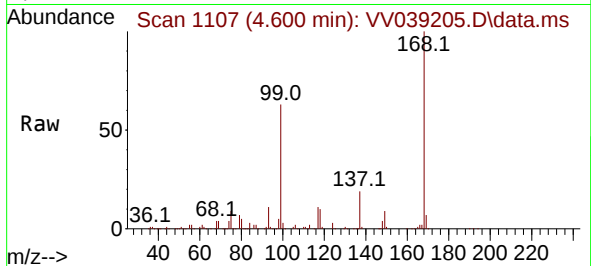




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

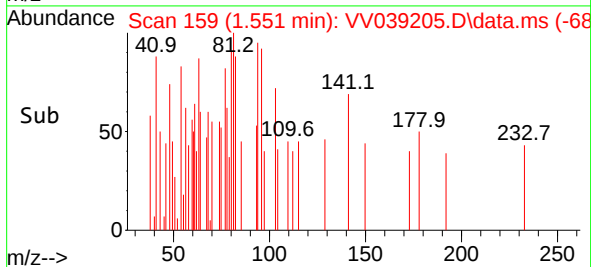
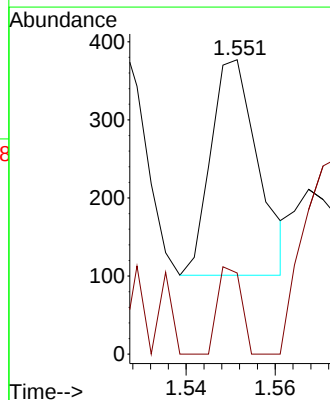
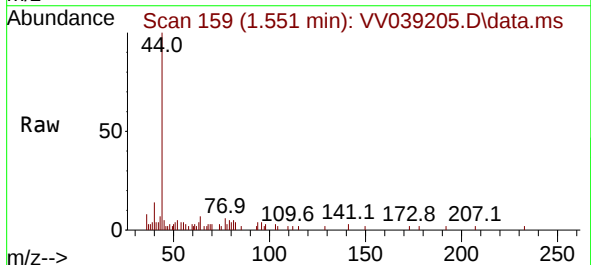
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

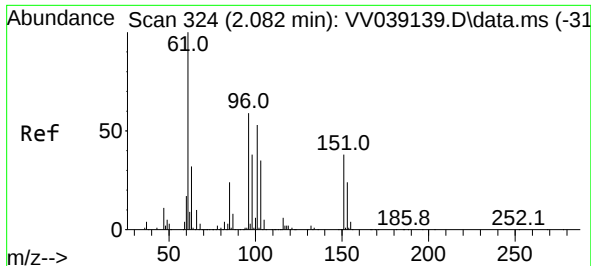
Tgt Ion:168 Resp: 513652
Ion Ratio Lower Upper
168 100
99 62.8 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.551 min Scan# 159
Delta R.T. -0.007 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 64 Resp: 204
Ion Ratio Lower Upper
64 100
66 37.7 24.6 36.8#

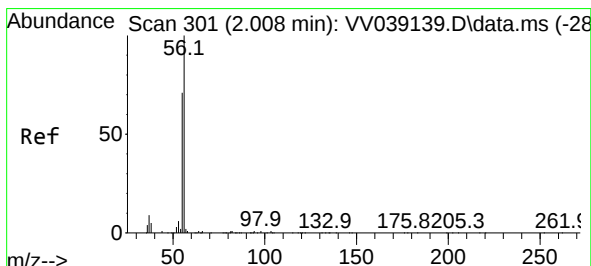
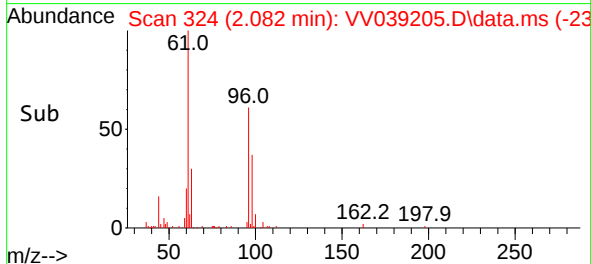
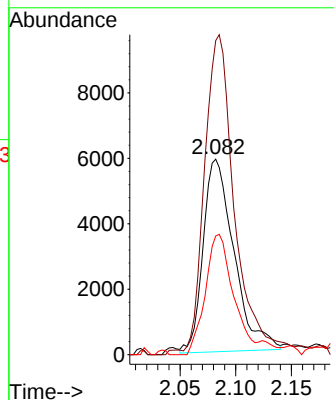
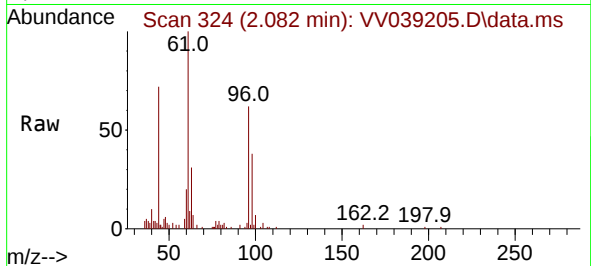




#12
1,1-Dichloroethene
Concen: 1.465 ug/l
RT: 2.082 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

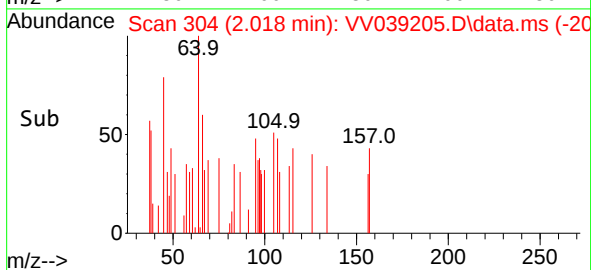
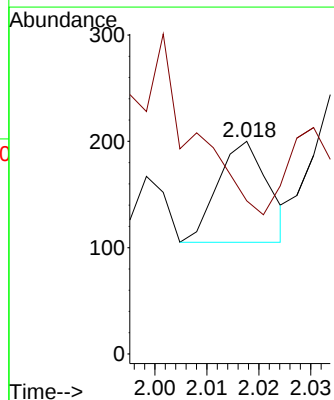
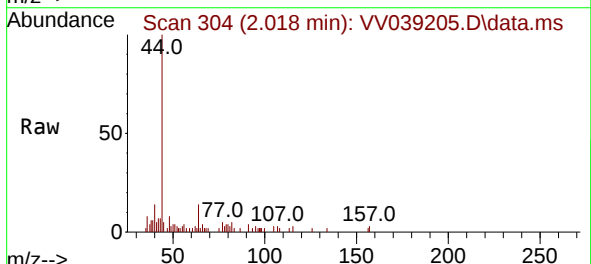
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

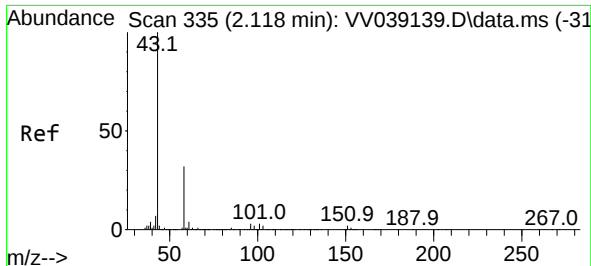
Tgt Ion: 96 Resp: 11345
Ion Ratio Lower Upper
96 100
61 162.8 136.0 204.0
98 62.4 51.0 76.6



#13
Acrolein
Concen: 0.235 ug/l
RT: 2.018 min Scan# 304
Delta R.T. 0.009 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#





#16

Acetone

Concen: Below Cal

RT: 2.130 min Scan# 31

Delta R.T. 0.012 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

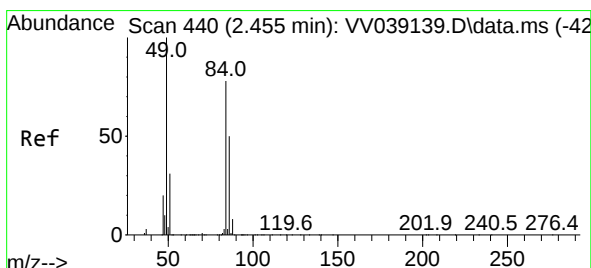
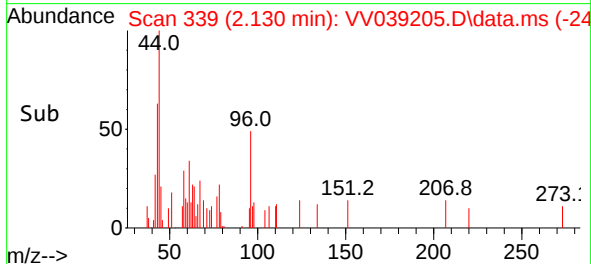
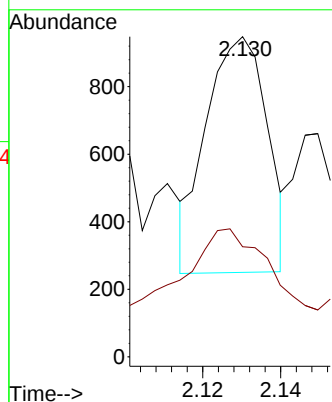
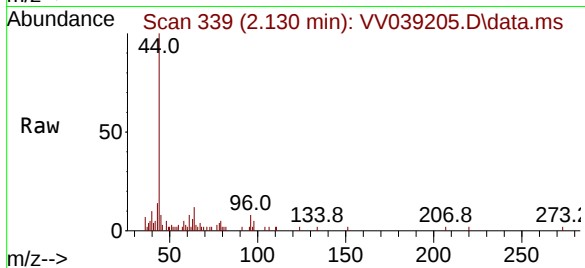
MW-4-091625

Tgt Ion: 43 Resp: 759

Ion Ratio Lower Upper

43 100

58 23.4 25.8 38.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.461 min Scan# 442

Delta R.T. 0.006 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

Tgt Ion: 84 Resp: 2483

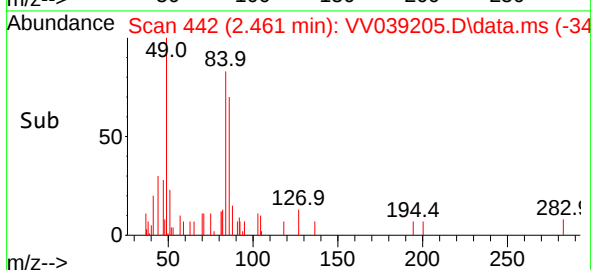
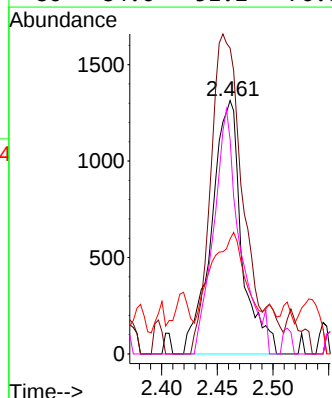
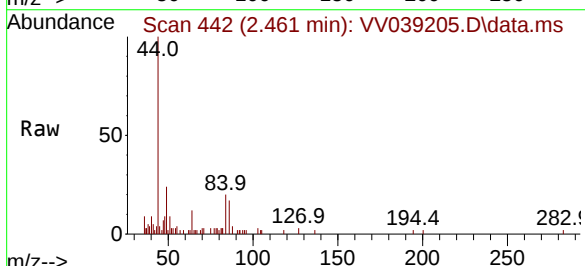
Ion Ratio Lower Upper

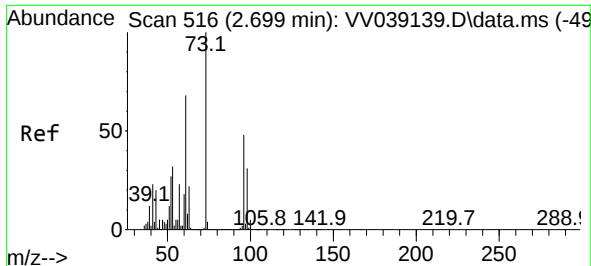
84 100

49 120.6 102.8 154.2

51 30.4 31.9 47.9#

86 84.6 51.2 76.8#

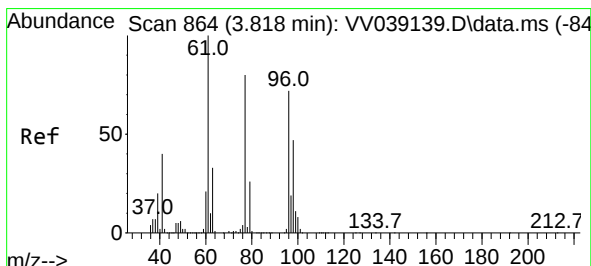
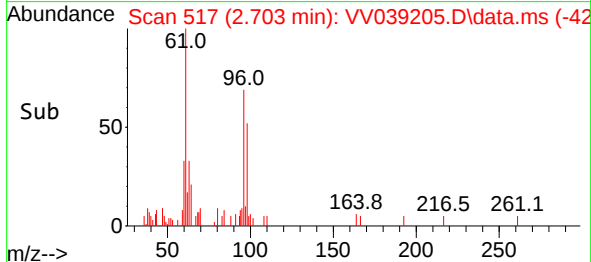
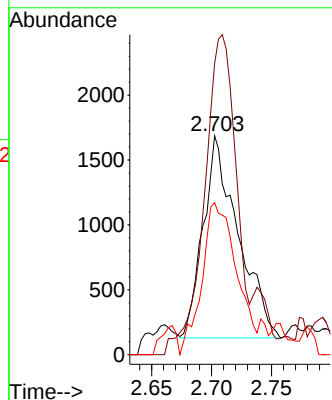
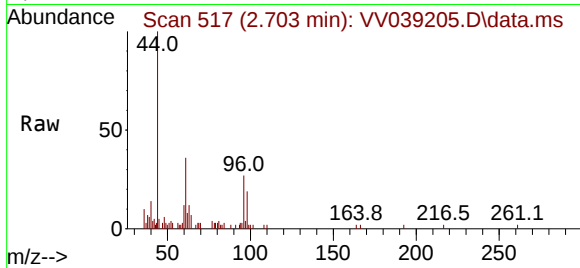




#21
trans-1,2-Dichloroethene
Concen: 0.384 ug/l
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

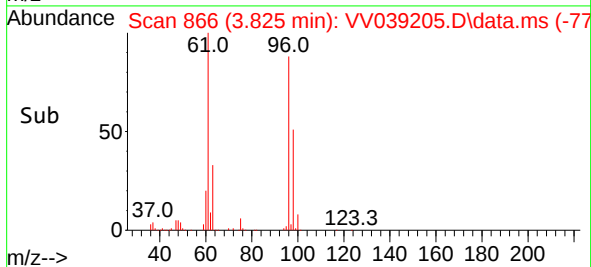
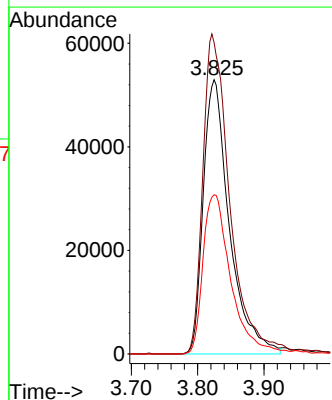
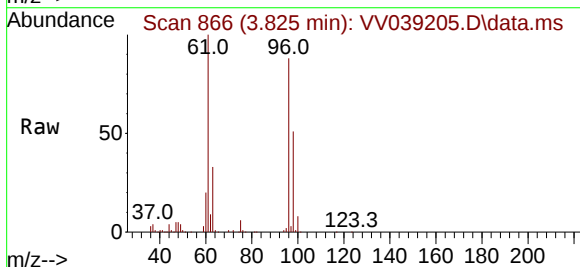
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

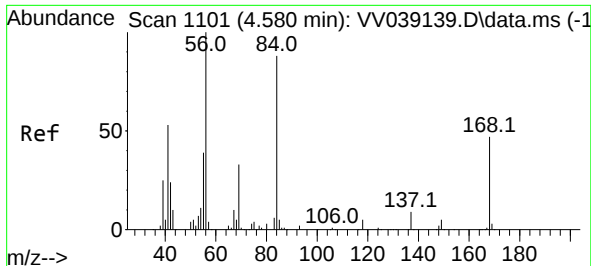
Tgt Ion: 96 Resp: 3163
Ion Ratio Lower Upper
96 100
61 136.0 112.8 169.2
98 75.3 51.1 76.7



#27
cis-1,2-Dichloroethene
Concen: 15.933 ug/l
RT: 3.825 min Scan# 866
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 96 Resp: 144878
Ion Ratio Lower Upper
96 100
61 120.7 0.0 286.4
98 61.8 0.0 126.6

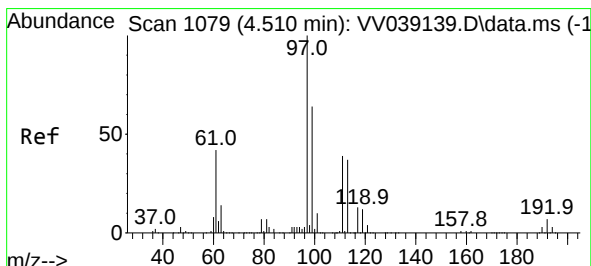
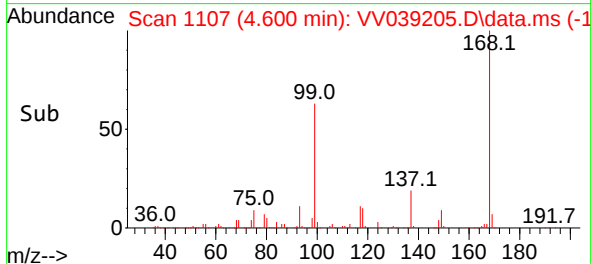
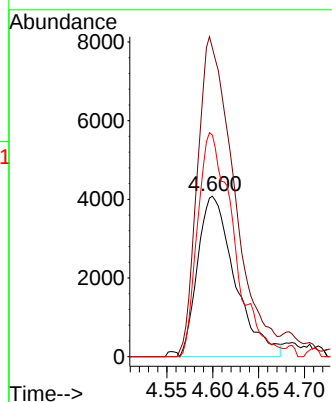
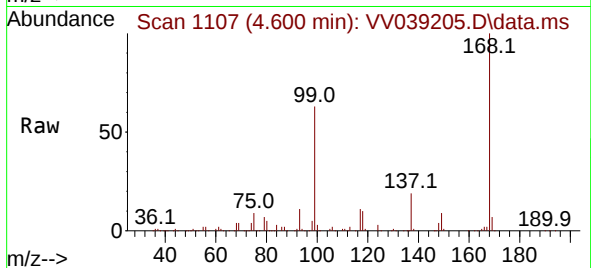




#31
Cyclohexane
Concen: 0.868 ug/l
RT: 4.600 min Scan# 1101
Delta R.T. 0.019 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

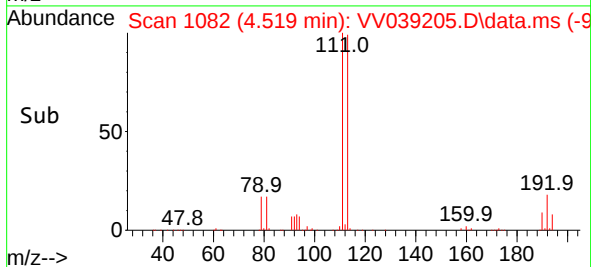
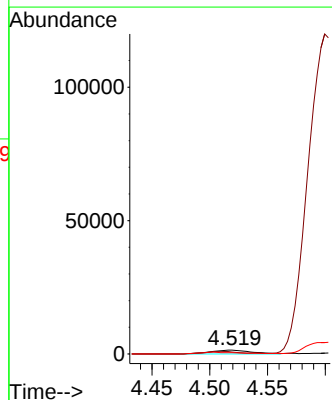
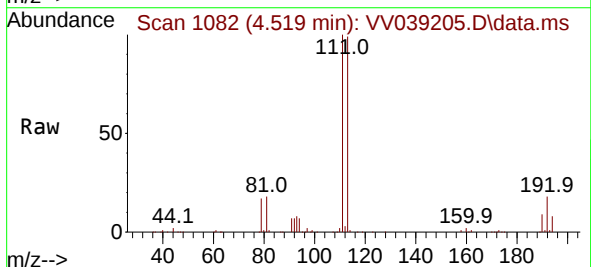
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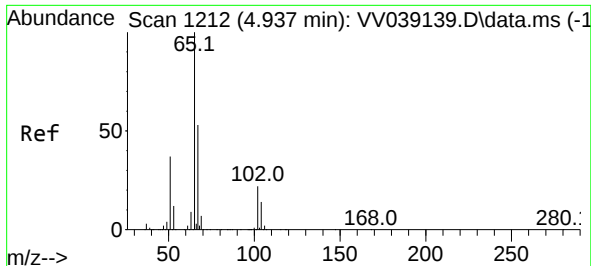
Tgt Ion: 56 Resp: 11508
Ion Ratio Lower Upper
56 100
69 188.3 26.2 39.2#
84 138.0 70.3 105.5#



#32
1,1,1-Trichloroethane
Concen: 0.243 ug/l
RT: 4.519 min Scan# 1082
Delta R.T. 0.009 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 97 Resp: 3557
Ion Ratio Lower Upper
97 100
99 0.0 49.6 74.4#
61 26.3 34.5 51.7#





#33

1,2-Dichloroethane-d4

Concen: 55.970 ug/l

RT: 4.940 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

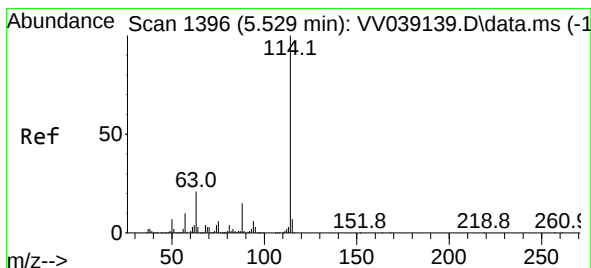
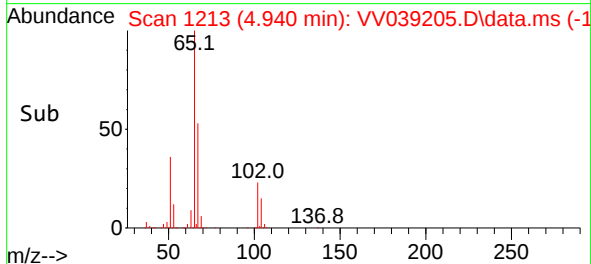
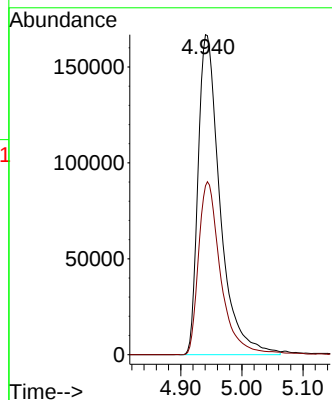
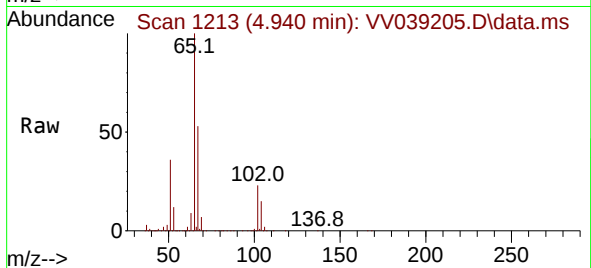
MW-4-091625

Tgt Ion: 65 Resp: 416085

Ion Ratio Lower Upper

65 100

67 54.5 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

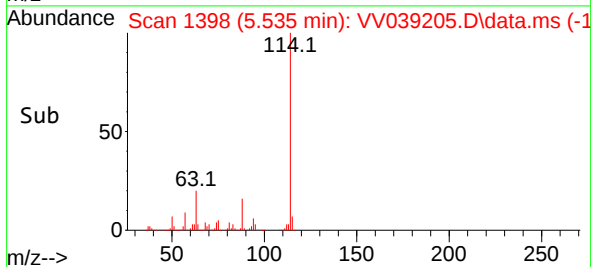
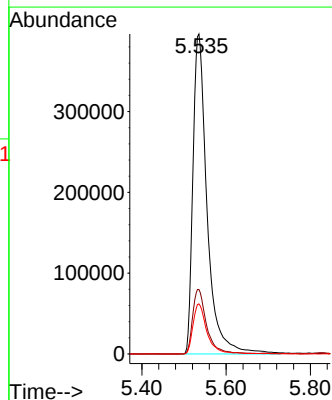
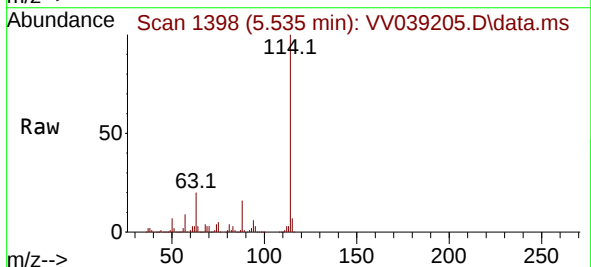
Tgt Ion: 114 Resp: 924164

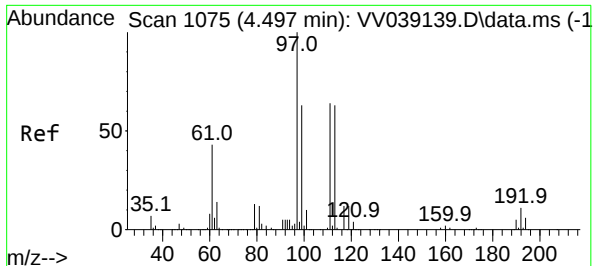
Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 15.7 0.0 30.8





#35

Dibromofluoromethane

Concen: 52.858 ug/l

RT: 4.503 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

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ClientSampleId :

MW-4-091625

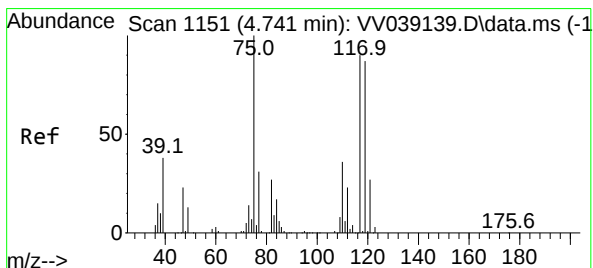
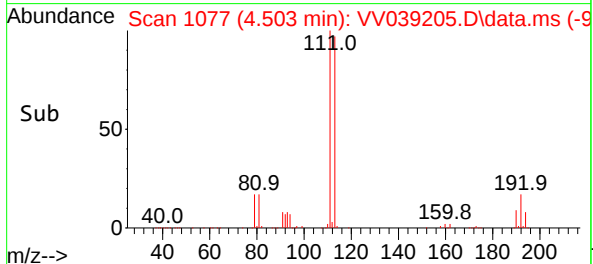
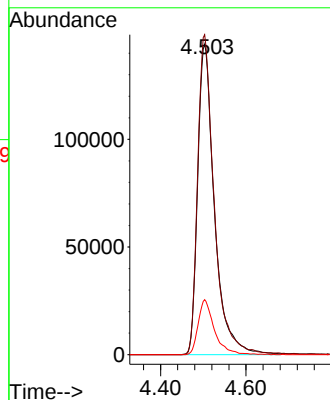
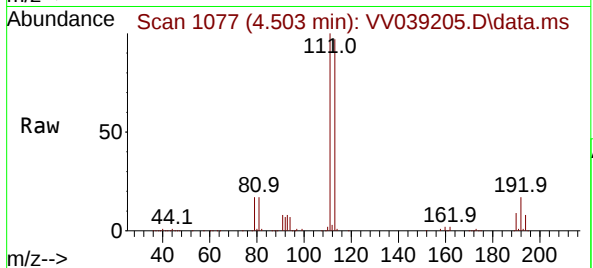
Tgt Ion:113 Resp: 392713

Ion Ratio Lower Upper

113 100

111 101.8 82.4 123.6

192 17.1 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.087 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

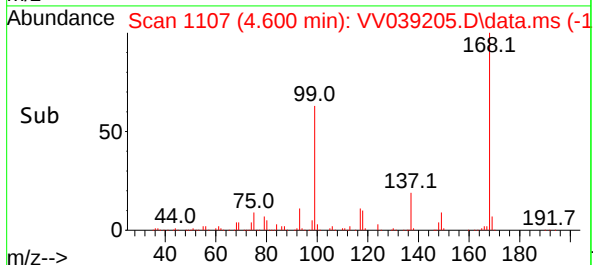
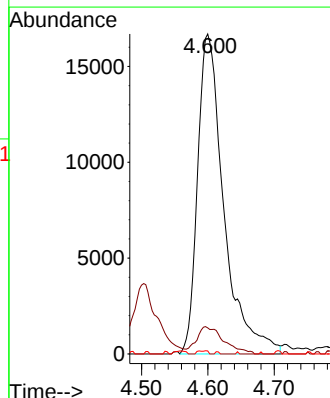
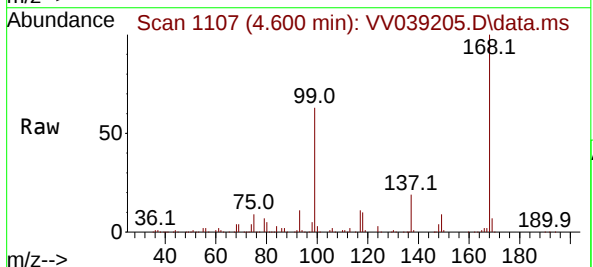
Tgt Ion: 75 Resp: 45907

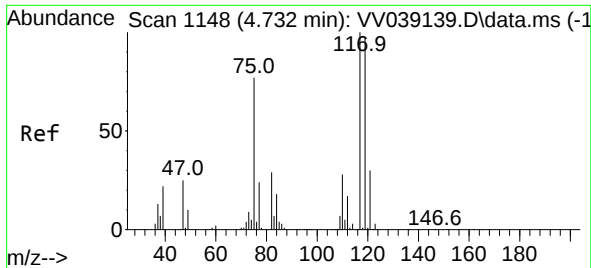
Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.1#

77 0.4 24.8 37.2#

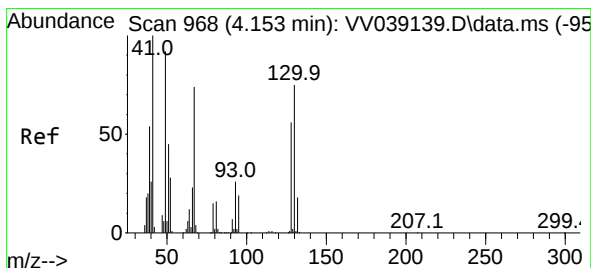
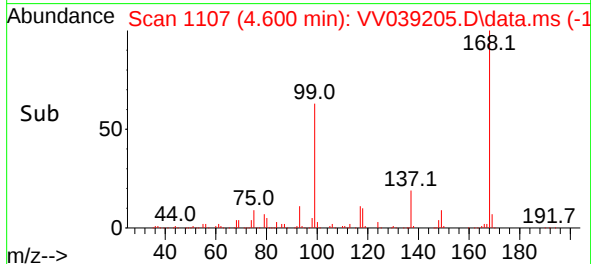
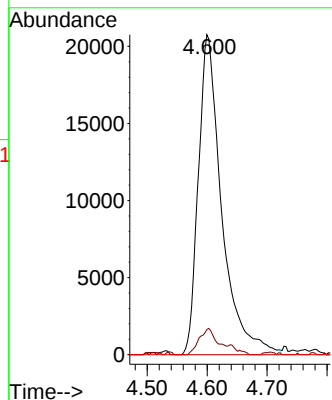
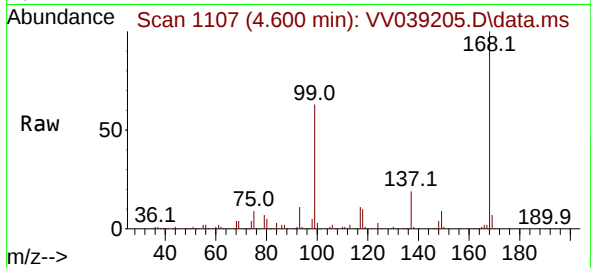




#38
Carbon Tetrachloride
Concen: 4.100 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

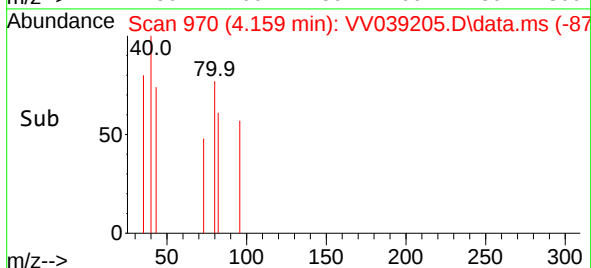
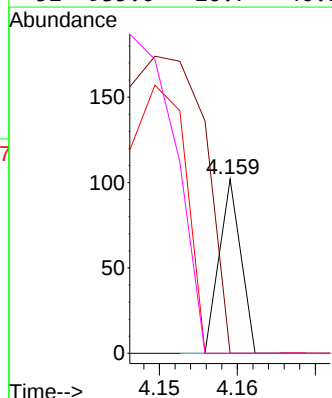
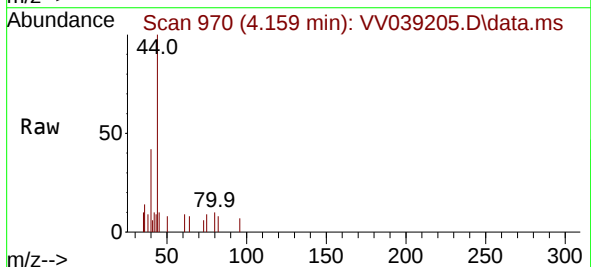
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

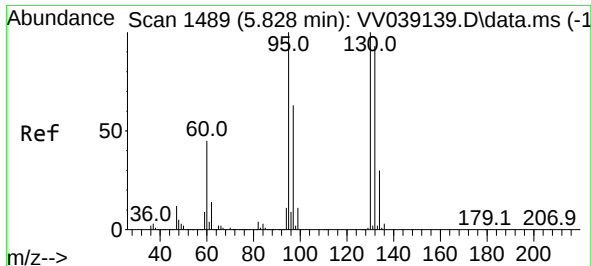
Tgt Ion:117 Resp: 56280
Ion Ratio Lower Upper
117 100
119 7.9 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.914 ug/l
RT: 4.159 min Scan# 970
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 41 Resp: 20
Ion Ratio Lower Upper
41 100
39 745.0 42.2 63.2#
67 405.0 67.9 101.9#
52 935.0 26.7 40.1#

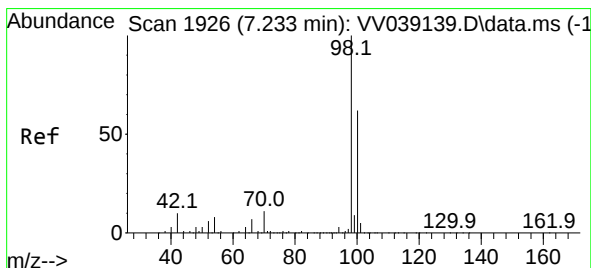
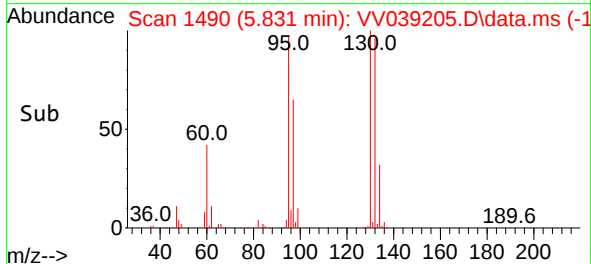
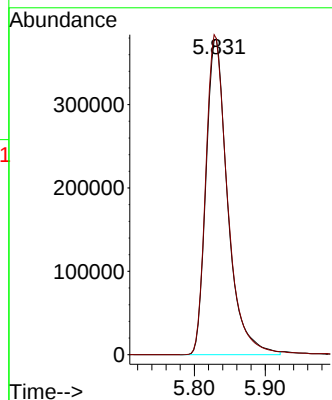
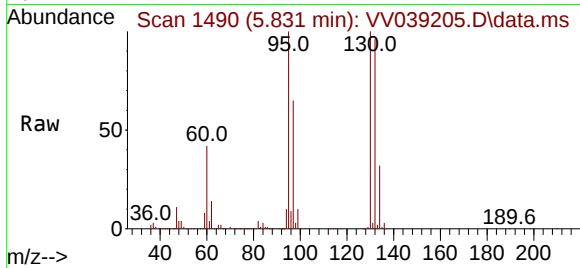




#44
 Trichloroethene
 Concen: 95.322 ug/l
 RT: 5.831 min Scan# 1489
 Delta R.T. 0.003 min
 Lab File: VV039205.D
 Acq: 26 Sep 2025 12:21

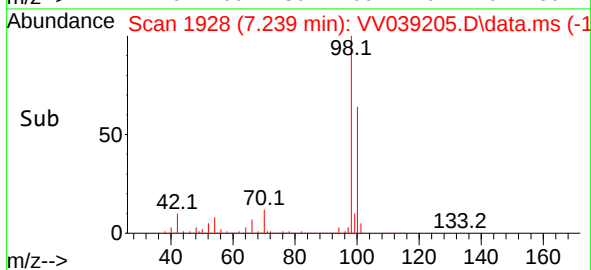
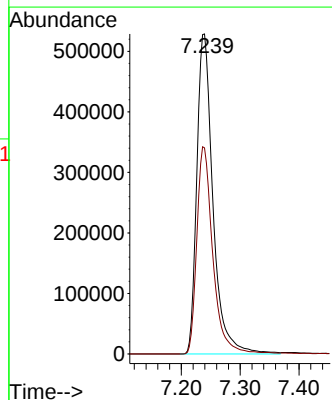
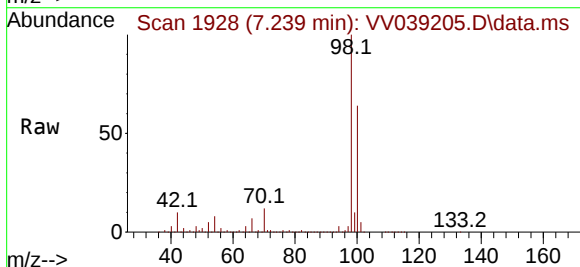
Instrument :
 MSVOA_V
 ClientSampleId :
 MW-4-091625

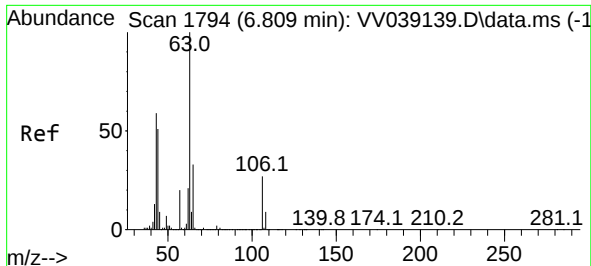
Tgt Ion:130 Resp: 804569
 Ion Ratio Lower Upper
 130 100
 95 100.1 0.0 199.2



#50
 Toluene-d8
 Concen: 46.235 ug/l
 RT: 7.239 min Scan# 1928
 Delta R.T. 0.006 min
 Lab File: VV039205.D
 Acq: 26 Sep 2025 12:21

Tgt Ion: 98 Resp: 1008875
 Ion Ratio Lower Upper
 98 100
 100 64.0 52.2 78.2

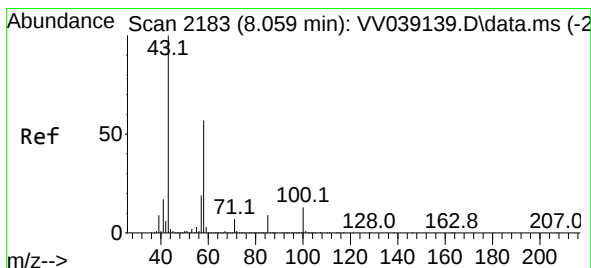
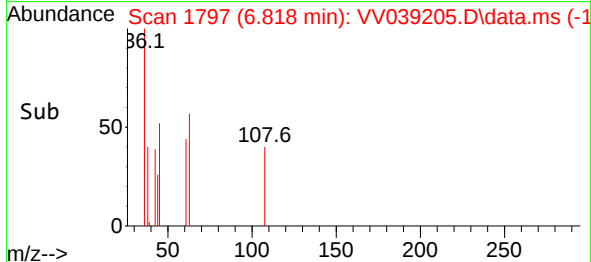
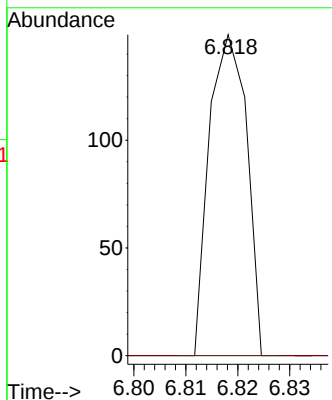
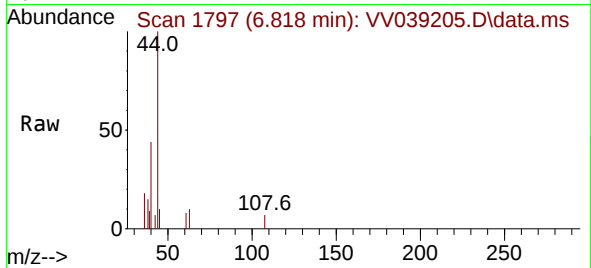




#58
2-Chloroethyl Vinyl ether
Concen: 9.634 ug/l
RT: 6.818 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

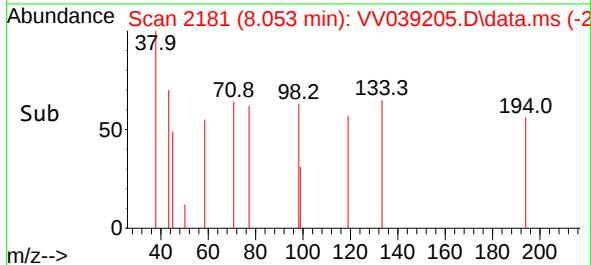
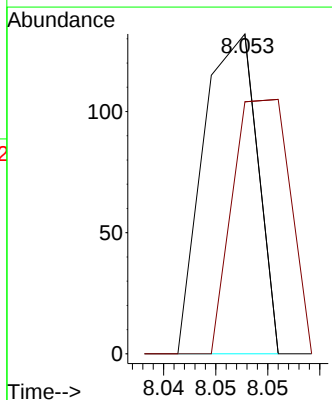
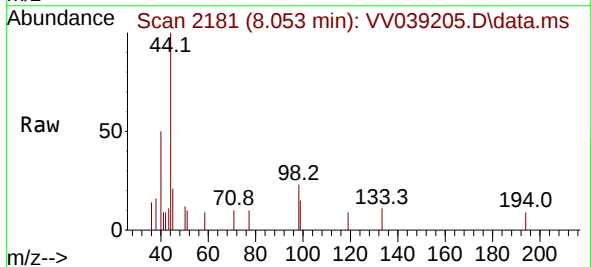
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

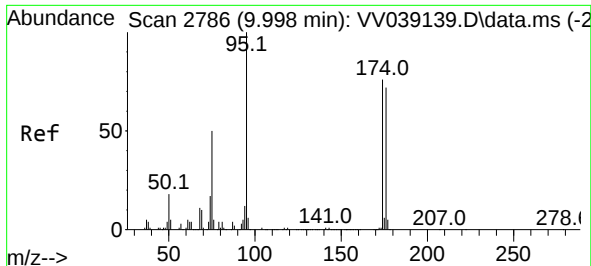
Tgt Ion: 63 Resp: 75
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.330 ug/l
RT: 8.053 min Scan# 2181
Delta R.T. -0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 43 Resp: 48
Ion Ratio Lower Upper
43 100
58 83.3 28.3 85.0

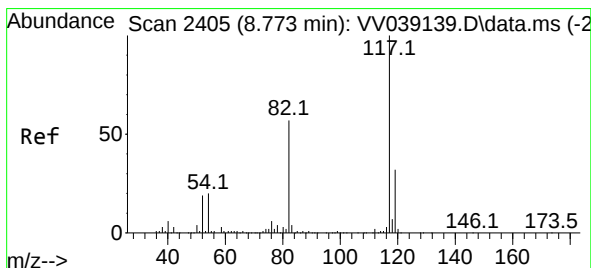
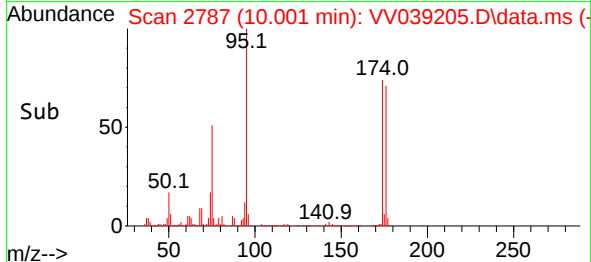
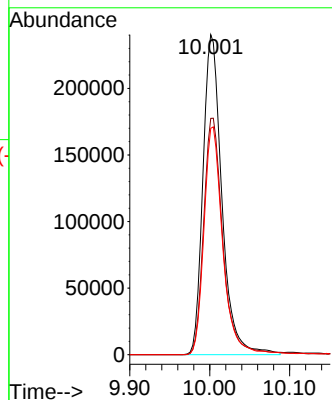
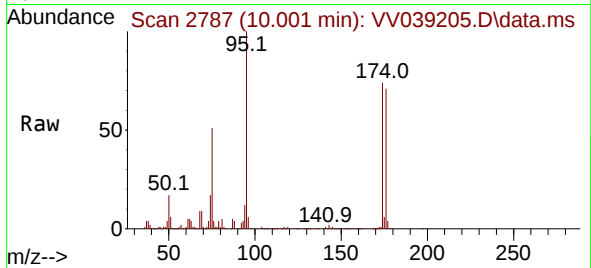




#62
4-Bromofluorobenzene
Concen: 44.107 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

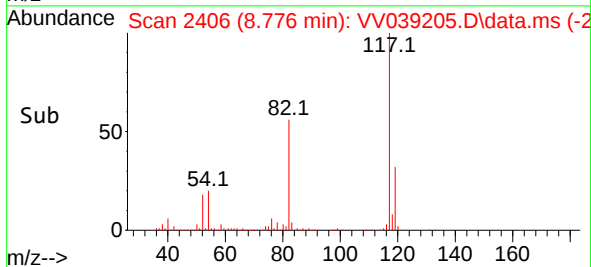
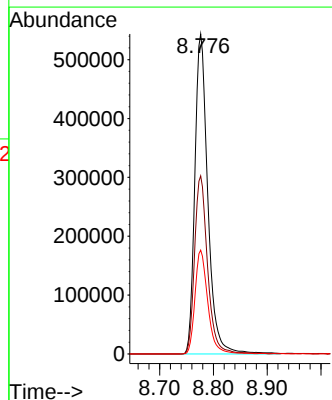
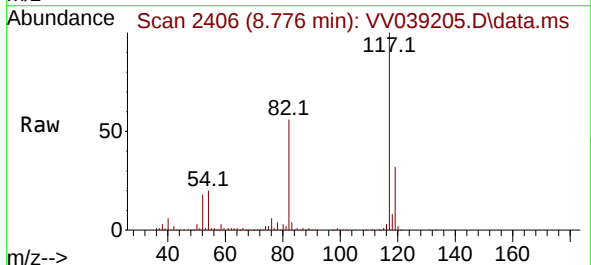
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

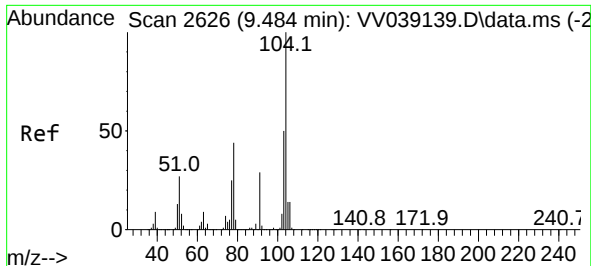
Tgt Ion: 95 Resp: 396215
Ion Ratio Lower Upper
95 100
174 75.1 0.0 150.4
176 71.1 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 117 Resp: 911885
Ion Ratio Lower Upper
117 100
82 55.6 45.4 68.2
119 32.5 25.6 38.4

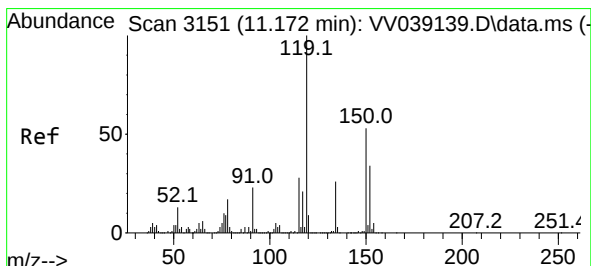
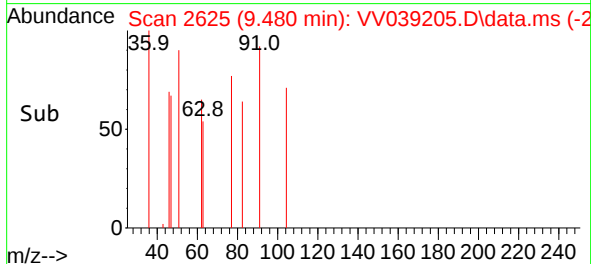
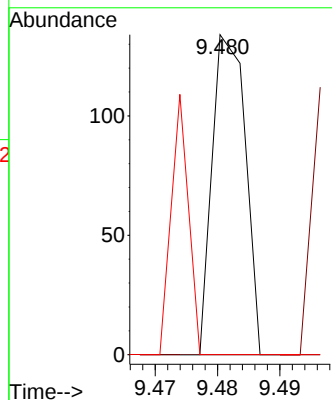
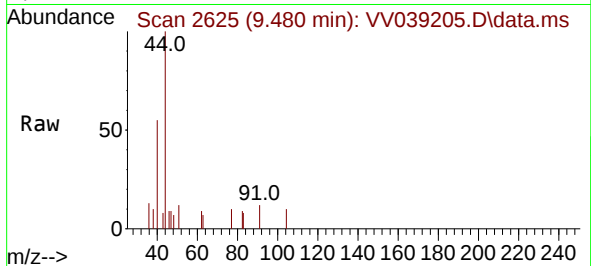




#70
Styrene
Concen: 1.563 ug/l
RT: 9.480 min Scan# 2
Delta R.T. -0.004 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

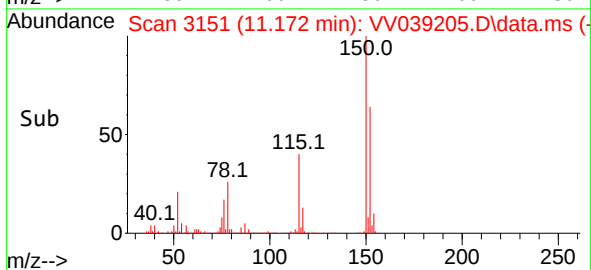
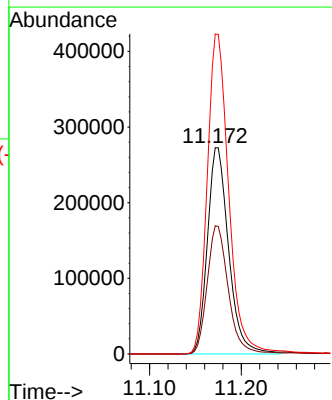
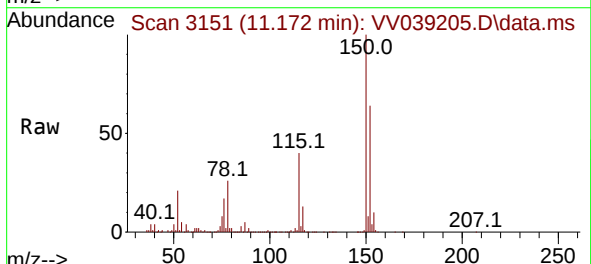
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

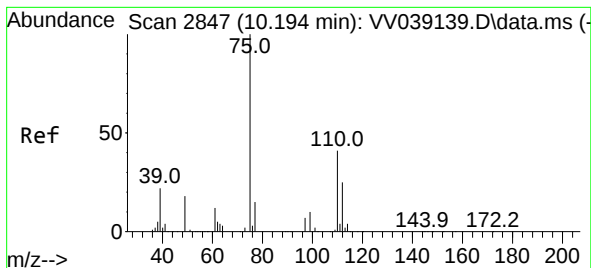
Tgt Ion:104 Resp: 49
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 42.9 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion:152 Resp: 438479
Ion Ratio Lower Upper
152 100
115 61.8 44.8 134.4
150 157.9 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 19.617 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

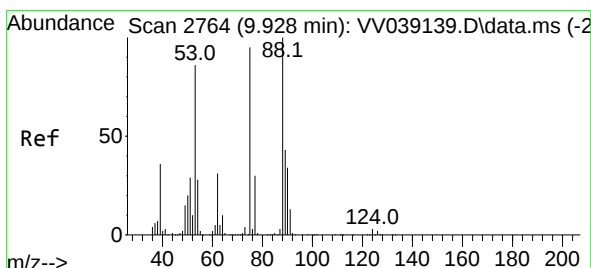
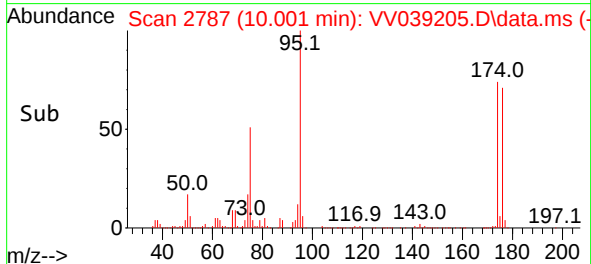
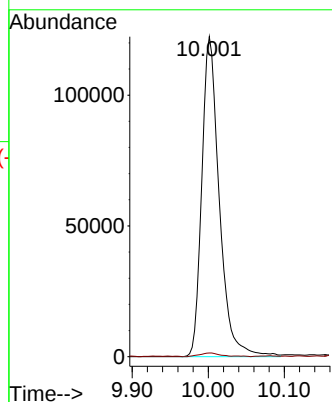
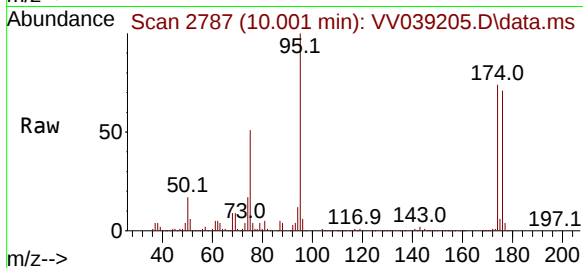
MW-4-091625

Tgt Ion: 75 Resp: 195844

Ion Ratio Lower Upper

75 100

77 1.3 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 47.094 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039205.D

Acq: 26 Sep 2025 12:21

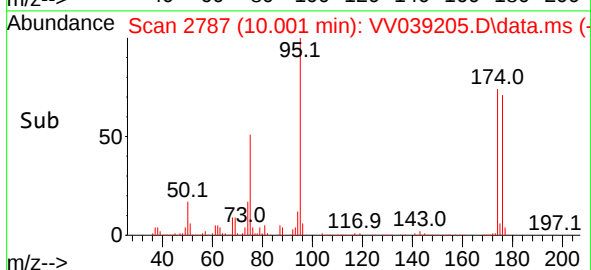
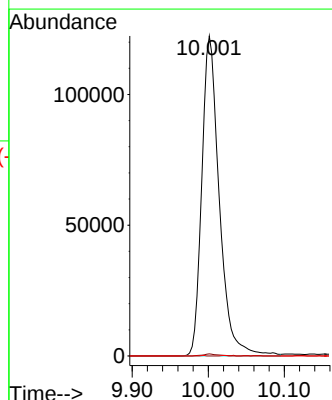
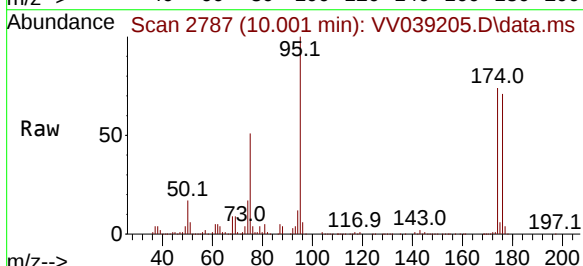
Tgt Ion: 75 Resp: 195844

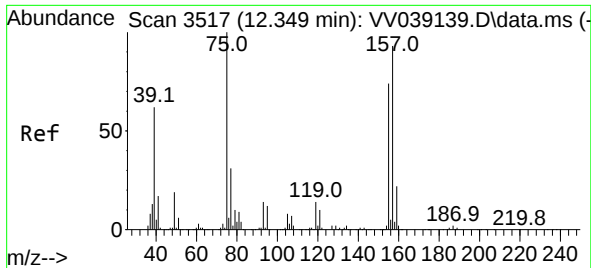
Ion Ratio Lower Upper

75 100

53 0.6 72.5 108.7#

89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.345 min Scan# 31

Delta R.T. -0.004 min

Lab File: VV039205.D

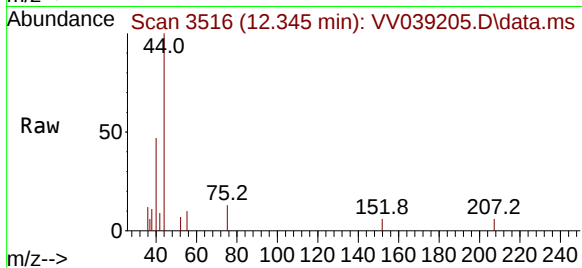
Acq: 26 Sep 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

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Tgt Ion: 75 Resp: 103

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

