

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039193.D
 Acq On : 25 Sep 2025 19:40
 Operator : SY/MD
 Sample : Q3195-09
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:38:11 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)

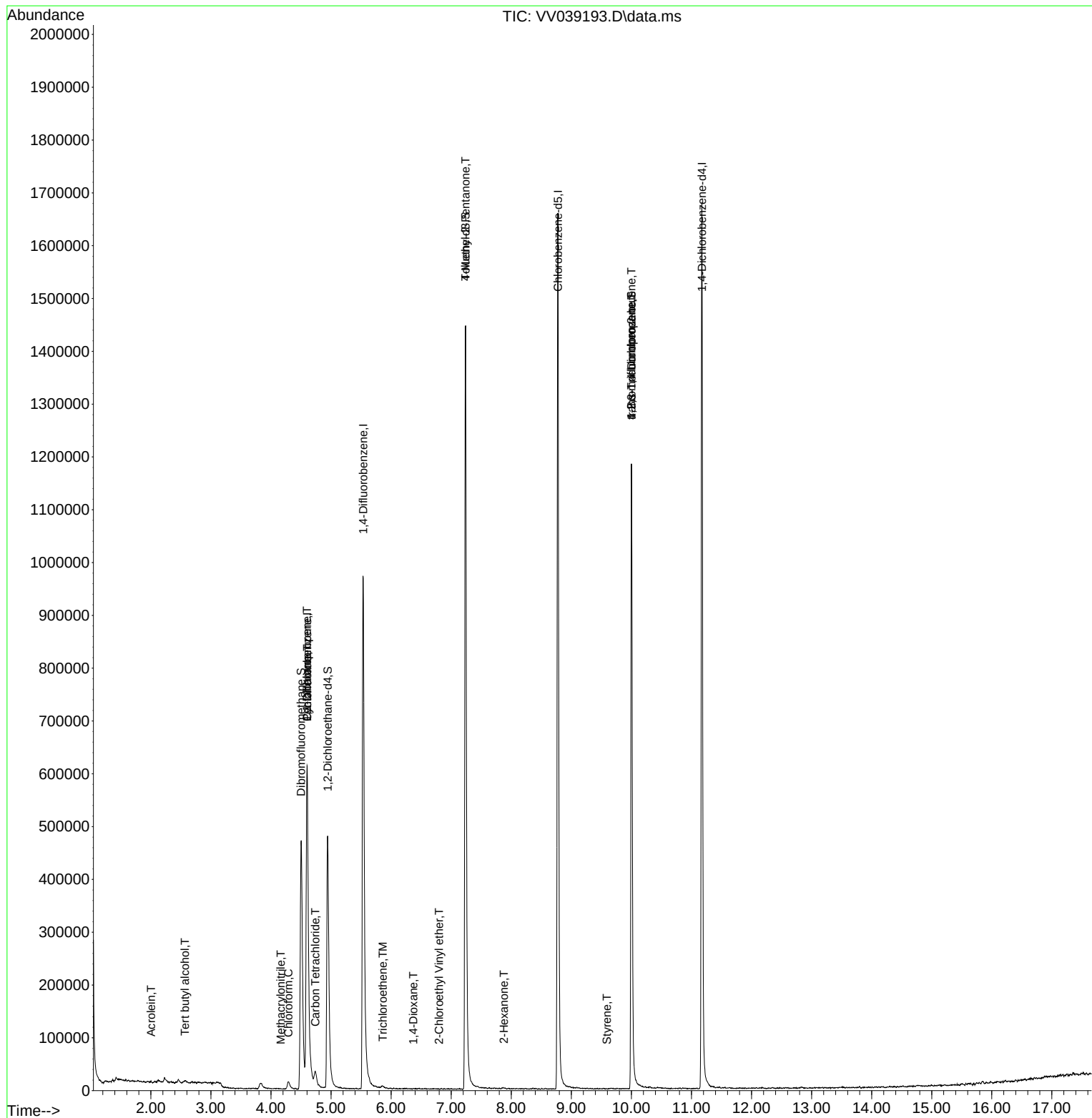
Internal Standards						
1) Pentafluorobenzene	4.603	168	525270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	956838	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	943207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	451495	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	428579	56.376	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 112.760%	
35) Dibromofluoromethane	4.503	113	392109	50.975	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 101.940%	
50) Toluene-d8	7.239	98	1050090	46.480	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 92.960%	
62) 4-Bromofluorobenzene	10.001	95	412268	44.327	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 88.660%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.564	64	773	Below Cal	#	44
11) Tert butyl alcohol	2.568	59	485	0.302	ug/l #	73
13) Acrolein	2.005	56	134	0.481	ug/l #	7
16) Acetone	2.130	43	5127	Below Cal		93
20) Methylene Chloride	2.461	84	3174	Below Cal	#	73
30) Chloroform	4.291	83	16860	0.975	ug/l	100
31) Cyclohexane	4.603	56	11016	0.812	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	44461	3.823	ug/l #	44
38) Carbon Tetrachloride	4.738	117	20977	1.476	ug/l	98
41) Methacrylonitrile	4.162	41	24	1.914	ug/l #	1
44) Trichloroethene	5.860	130	1837	0.210	ug/l	67
49) 1,4-Dioxane	6.371	88	54	0.384	ug/l #	32
51) 4-Methyl-2-Pentanone	7.239	43	3860	0.305	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.799	63	120	9.640	ug/l #	47
59) 2-Hexanone	7.879	43	60	2.331	ug/l	82
70) Styrene	9.590	104	22	1.562	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	206196	20.058	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	206196	48.154	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.371	75	20	Below Cal	#	5

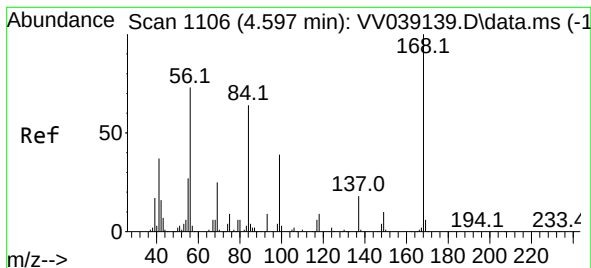
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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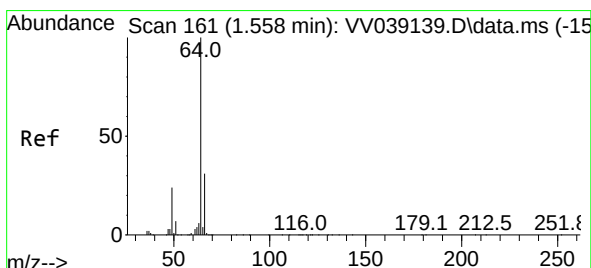
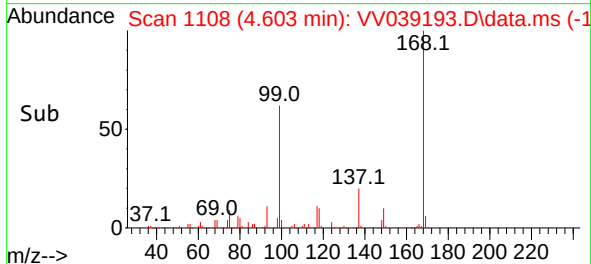
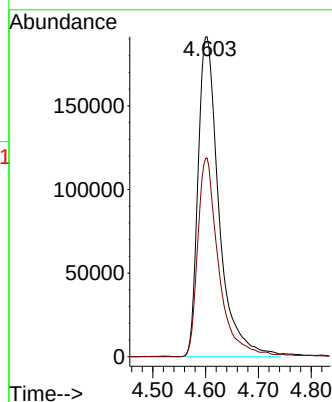
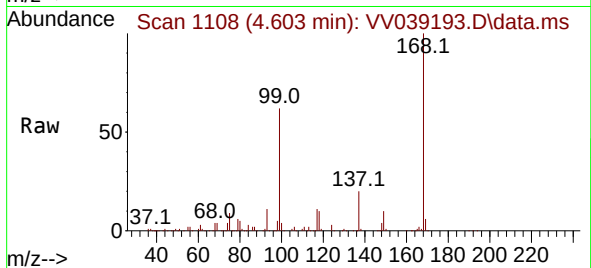




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

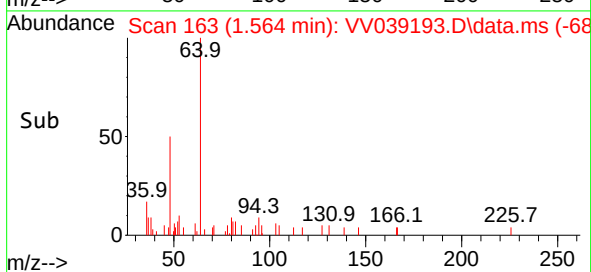
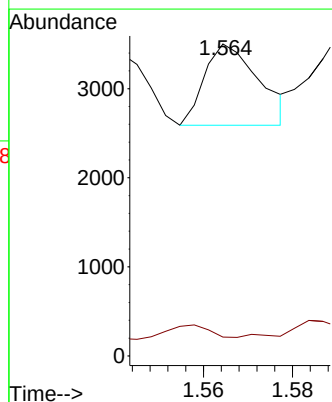
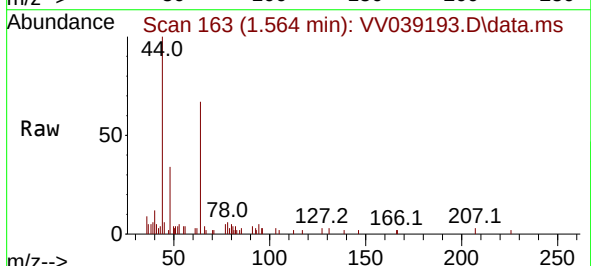
Instrument :
MSVOA_V
ClientSampleId :

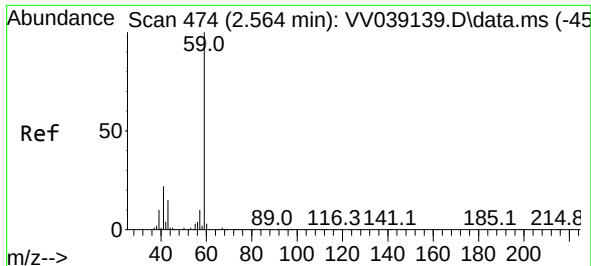
Tgt Ion:168 Resp: 525270
Ion Ratio Lower Upper
168 100
99 62.1 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.564 min Scan# 163
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 64 Resp: 773
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

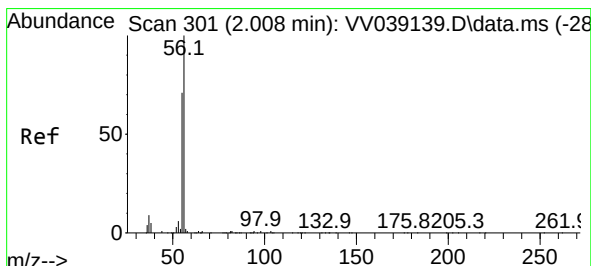
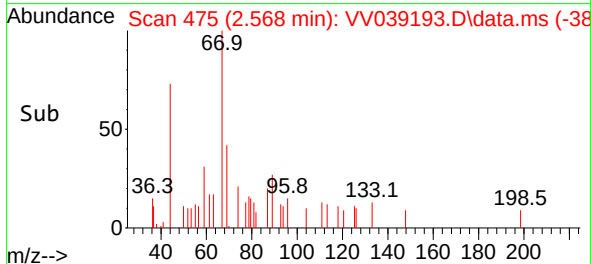
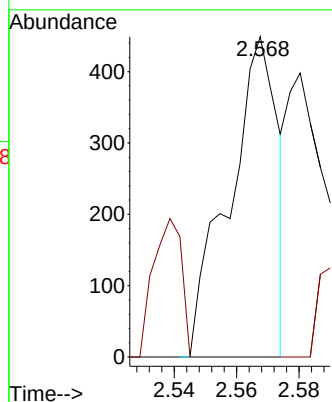
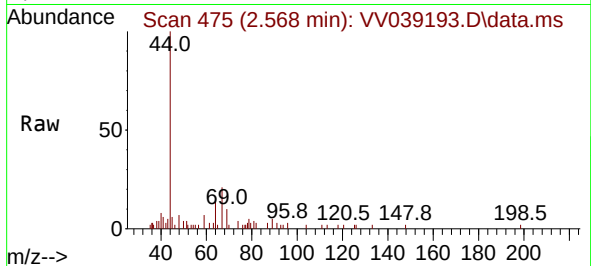




#11
Tert butyl alcohol
Concen: 0.302 ug/l
RT: 2.568 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

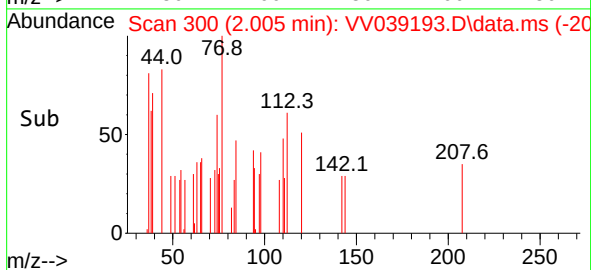
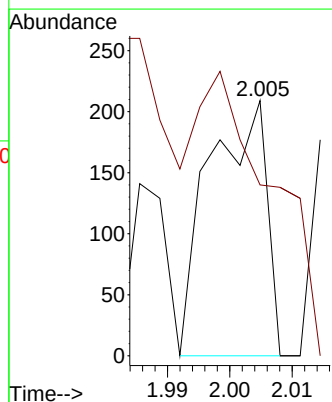
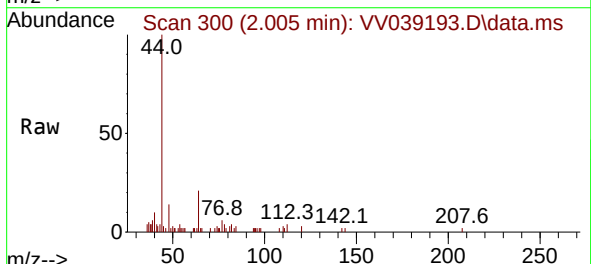
Instrument :
MSVOA_V
ClientSampleId :

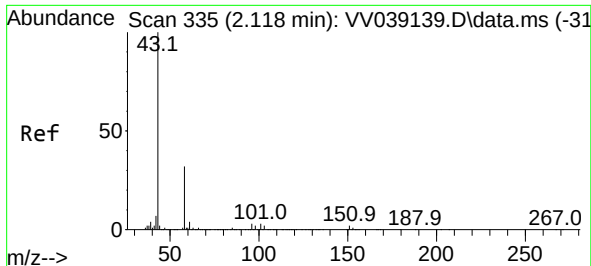
Tgt Ion: 59 Resp: 485
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#13
Acrolein
Concen: 0.481 ug/l
RT: 2.005 min Scan# 300
Delta R.T. -0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 56 Resp: 134
Ion Ratio Lower Upper
56 100
55 147.0 56.2 84.4#

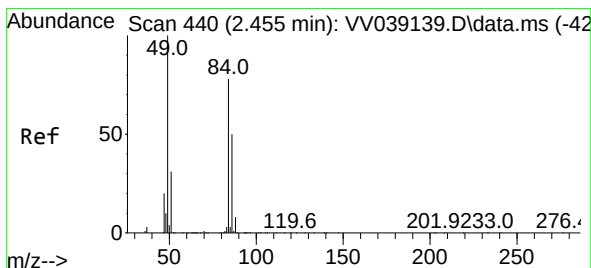
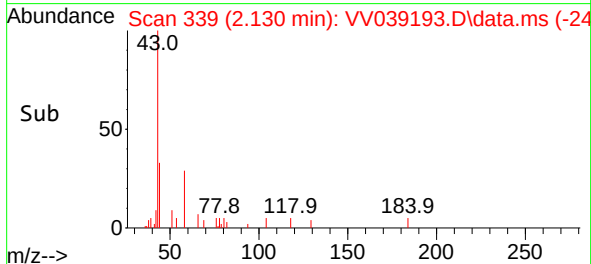
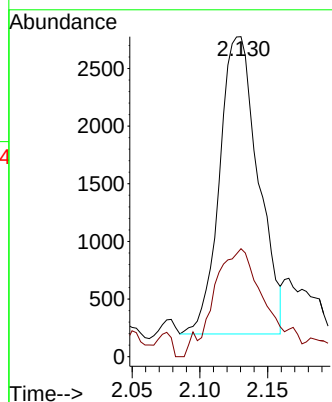
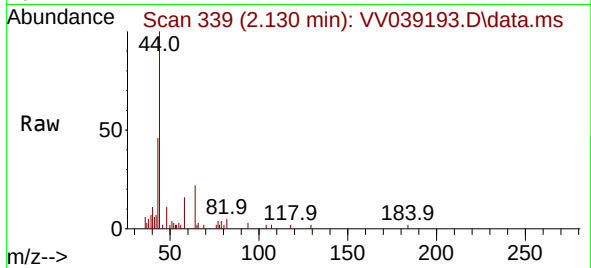




#16
Acetone
Concen: Below Cal
RT: 2.130 min Scan# 31
Delta R.T. 0.012 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

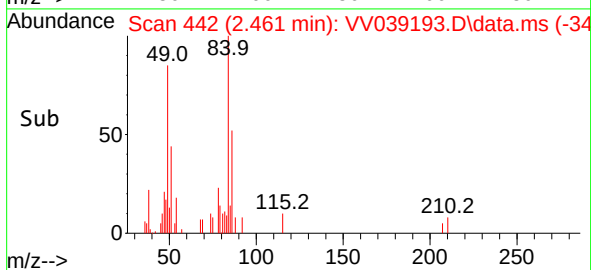
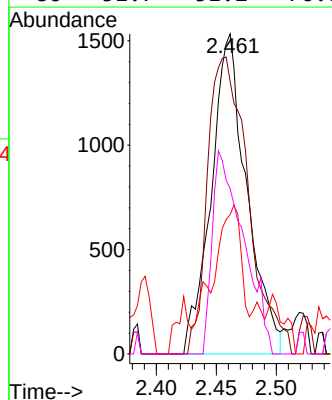
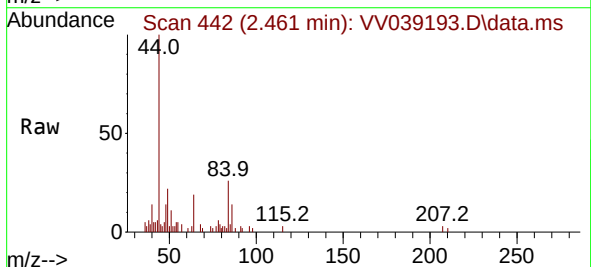
Instrument :
MSVOA_V
ClientSampleId :

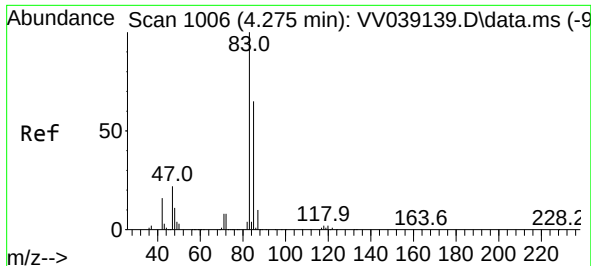
Tgt Ion: 43 Resp: 5127
Ion Ratio Lower Upper
43 100
58 36.3 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 442
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 84 Resp: 3174
Ion Ratio Lower Upper
84 100
49 85.2 102.8 154.2#
51 34.1 31.9 47.9
86 51.7 51.2 76.8





#30

Chloroform

Concen: 0.975 ug/l

RT: 4.291 min Scan# 1108

Delta R.T. 0.016 min

Lab File: VV039193.D

Acq: 25 Sep 2025 19:40

Instrument :

MSVOA_V

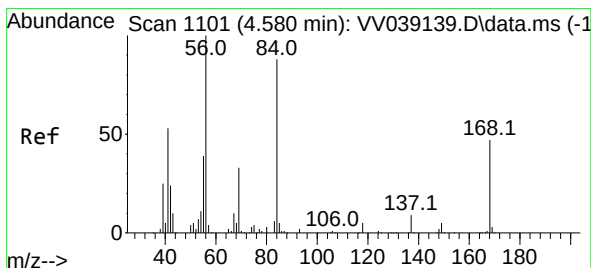
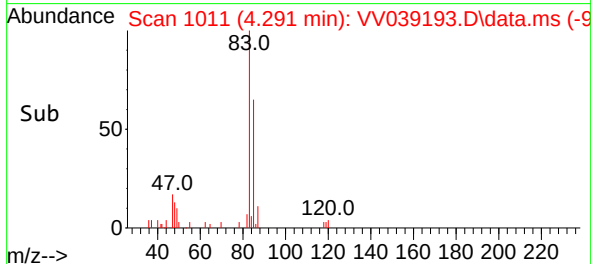
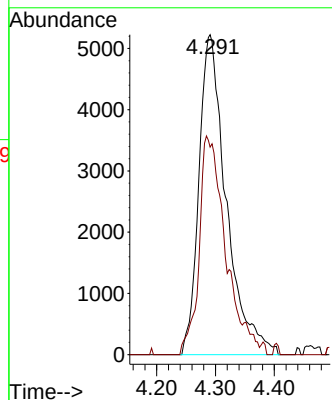
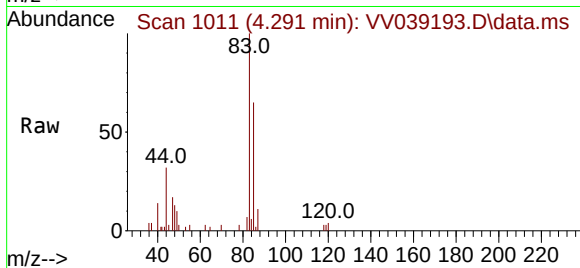
ClientSampleId :

Tgt Ion: 83 Resp: 16860

Ion Ratio Lower Upper

83 100

85 64.9 52.1 78.1



#31

Cyclohexane

Concen: 0.812 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.022 min

Lab File: VV039193.D

Acq: 25 Sep 2025 19:40

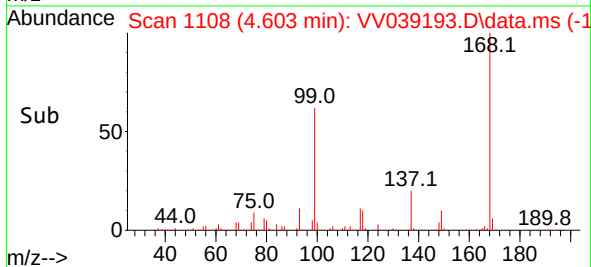
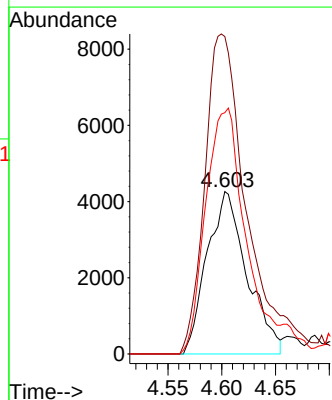
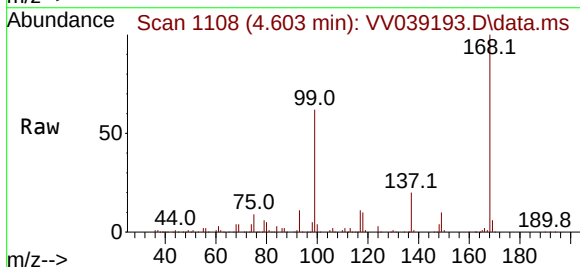
Tgt Ion: 56 Resp: 11016

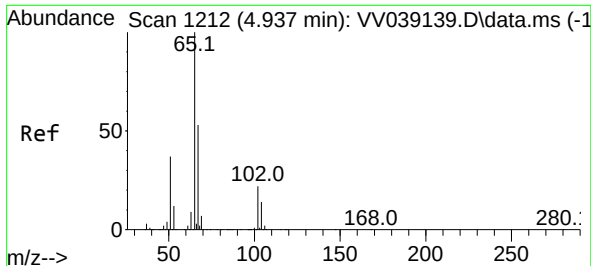
Ion Ratio Lower Upper

56 100

69 195.4 26.2 39.2#

84 148.5 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 56.376 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039193.D

Acq: 25 Sep 2025 19:40

Instrument :

MSVOA_V

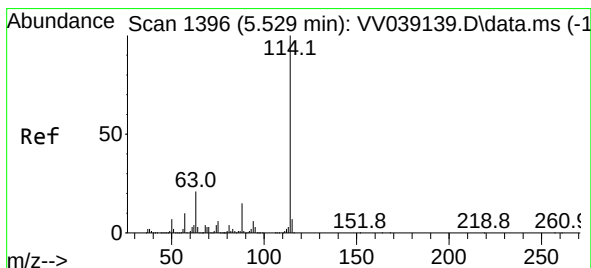
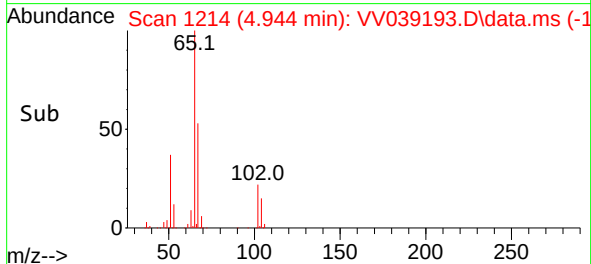
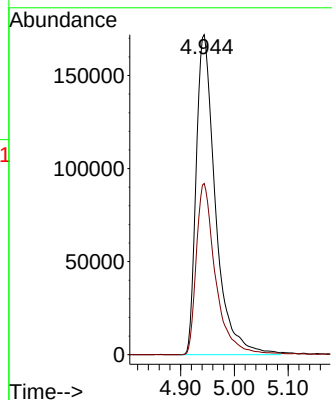
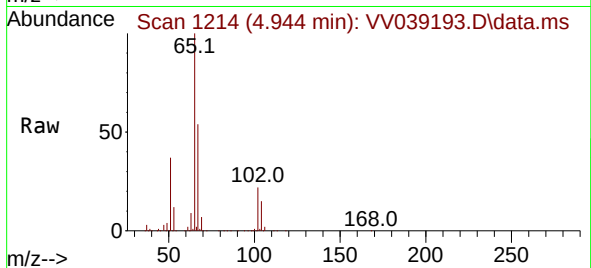
ClientSampleId :

Tgt Ion: 65 Resp: 428579

Ion Ratio Lower Upper

65 100

67 53.5 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: VV039193.D

Acq: 25 Sep 2025 19:40

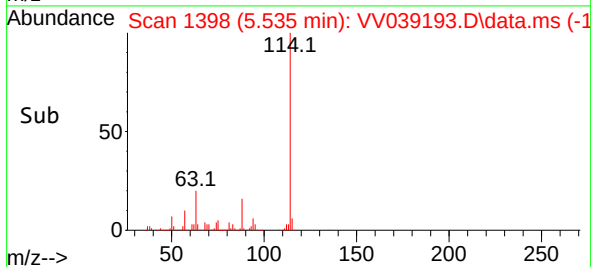
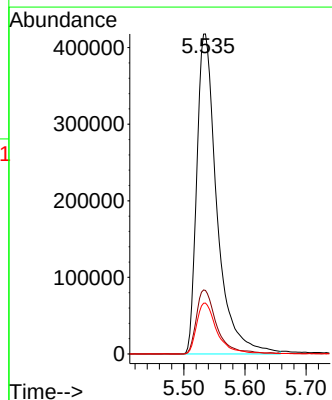
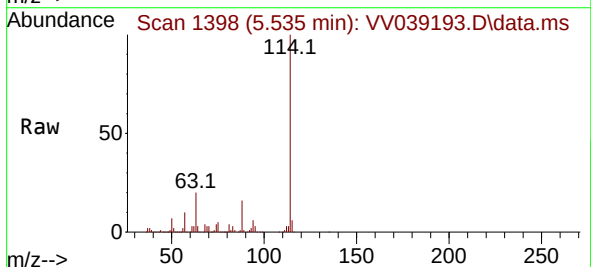
Tgt Ion: 114 Resp: 956838

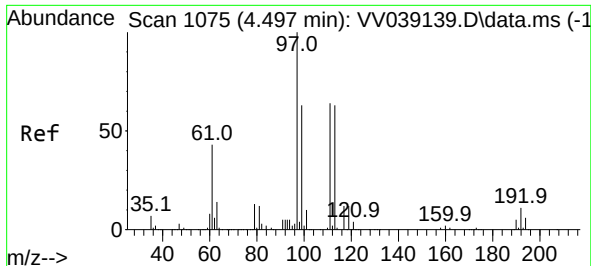
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

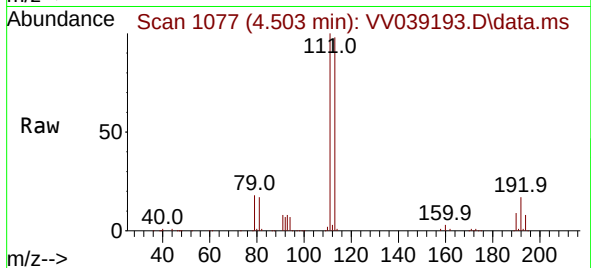
88 15.9 0.0 30.8



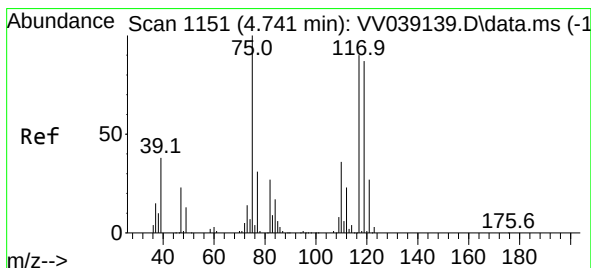
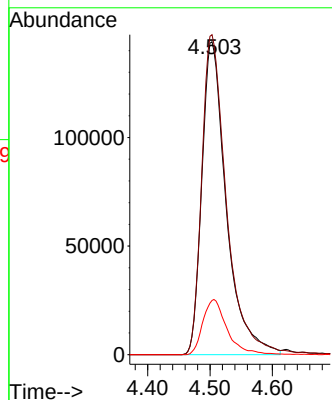
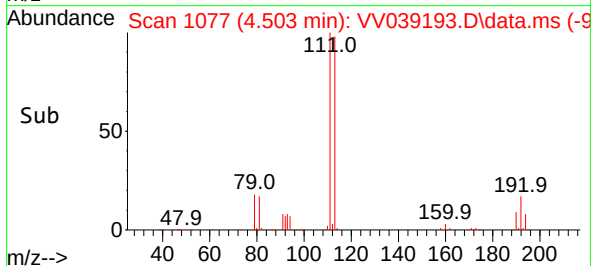


#35
Dibromofluoromethane
Concen: 50.975 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Instrument :
MSVOA_V
ClientSampleId :

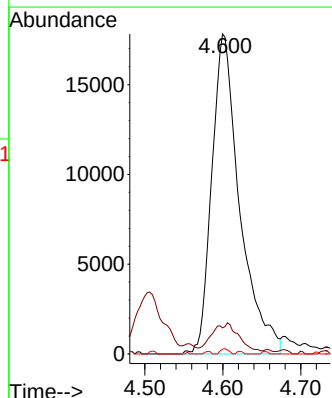
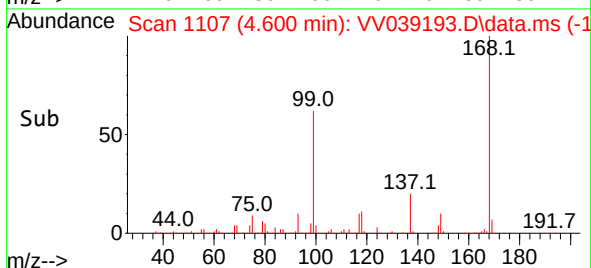
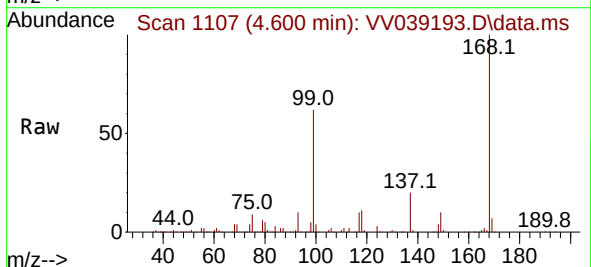


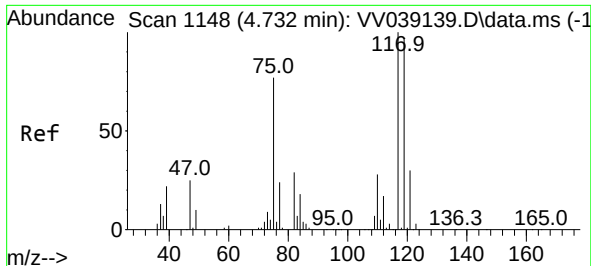
Tgt Ion:113 Resp: 392109
Ion Ratio Lower Upper
113 100
111 103.5 82.4 123.6
192 17.6 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.823 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

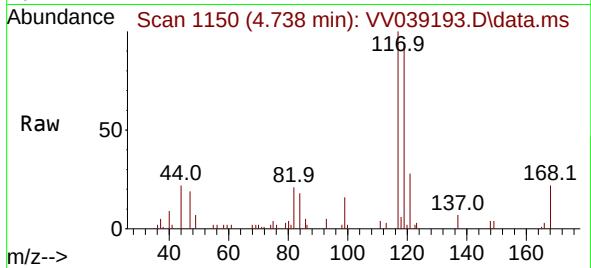
Tgt Ion: 75 Resp: 44461
Ion Ratio Lower Upper
75 100
110 3.0 18.1 54.1#
77 0.5 24.8 37.2#



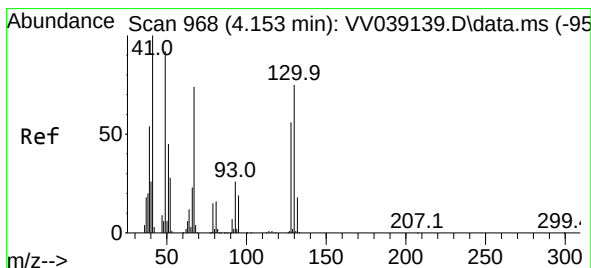
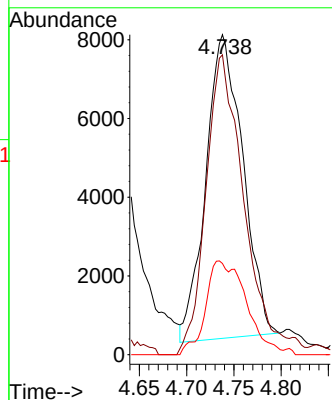
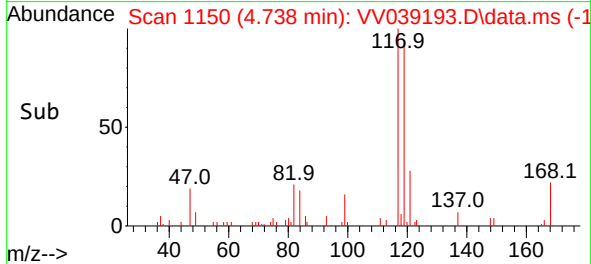


#38
Carbon Tetrachloride
Concen: 1.476 ug/l
RT: 4.738 min Scan# 1148
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Instrument :
MSVOA_V
ClientSampleId :

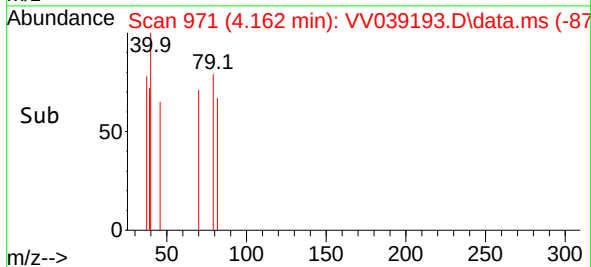
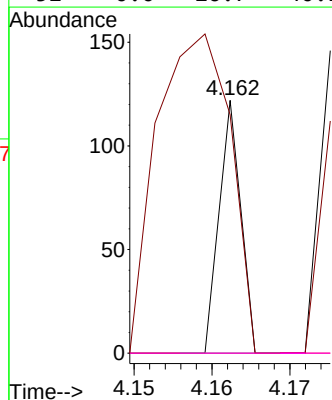
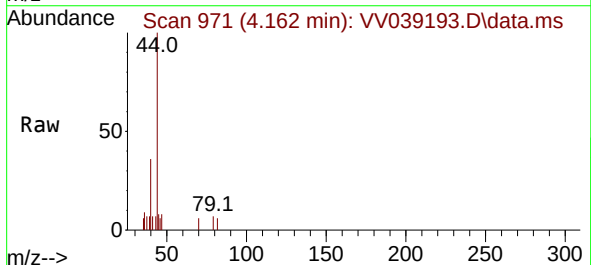


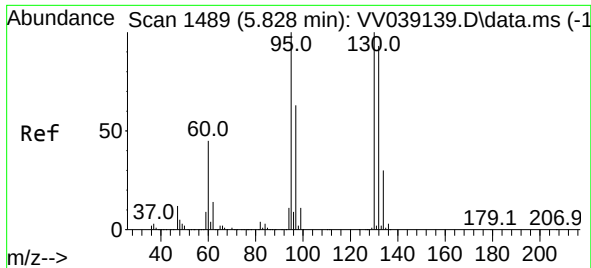
Tgt Ion: 117 Resp: 20977
Ion Ratio Lower Upper
117 100
119 98.6 77.2 115.8
121 30.5 24.2 36.2



#41
Methacrylonitrile
Concen: 1.914 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.009 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 41 Resp: 24
Ion Ratio Lower Upper
41 100
39 420.8 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#

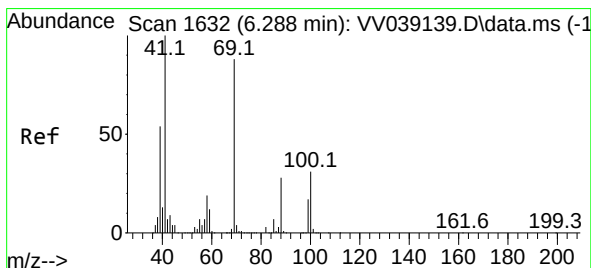
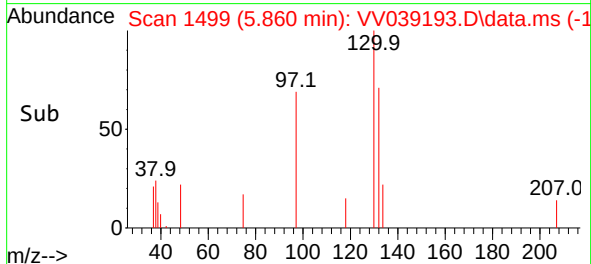
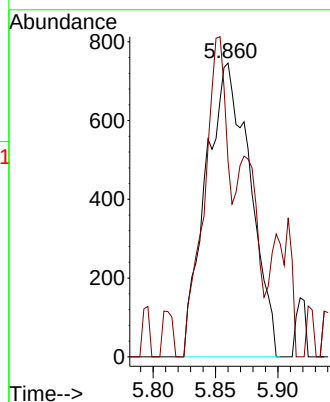
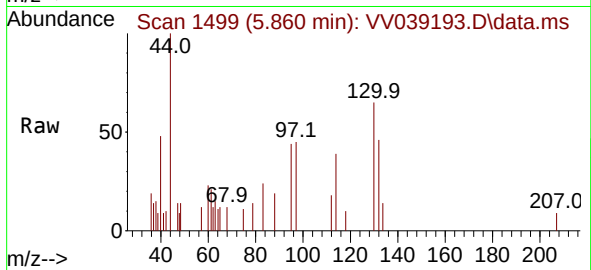




#44
Trichloroethene
Concen: 0.210 ug/l
RT: 5.860 min Scan# 1489
Delta R.T. 0.032 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

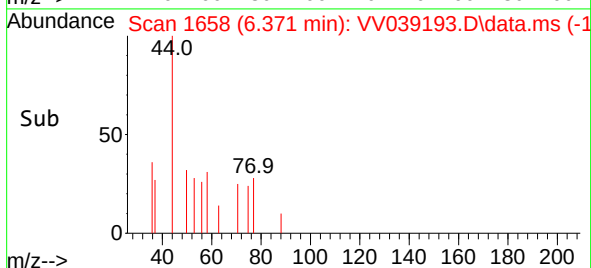
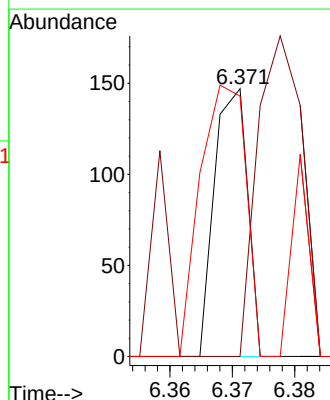
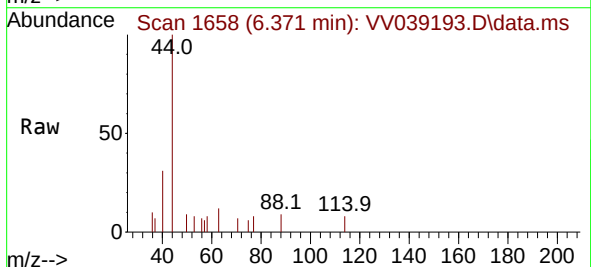
Instrument :
MSVOA_V
ClientSampleId :

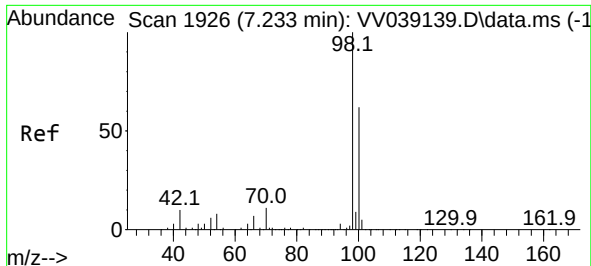
Tgt Ion:130 Resp: 1837
Ion Ratio Lower Upper
130 100
95 66.6 0.0 199.2



#49
1,4-Dioxane
Concen: 0.384 ug/l
RT: 6.371 min Scan# 1658
Delta R.T. 0.083 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 40.7 25.1 37.7#
58 140.7 53.6 80.4#

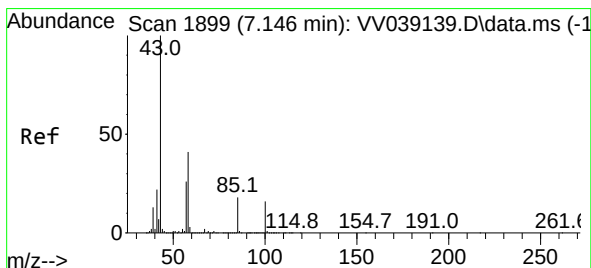
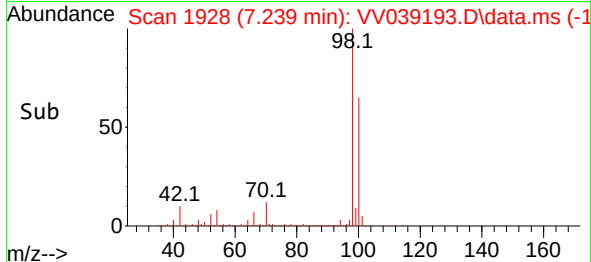
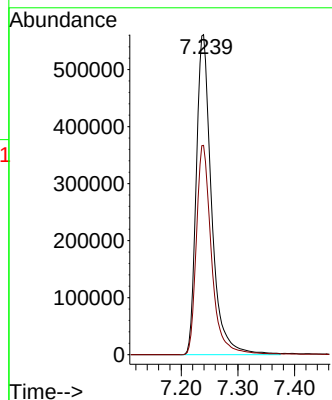
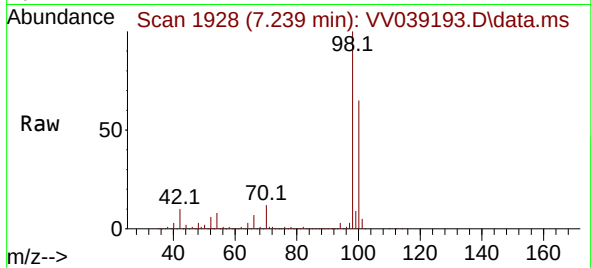




#50
Toluene-d8
Concen: 46.480 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

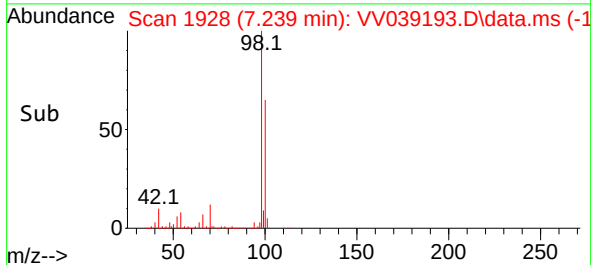
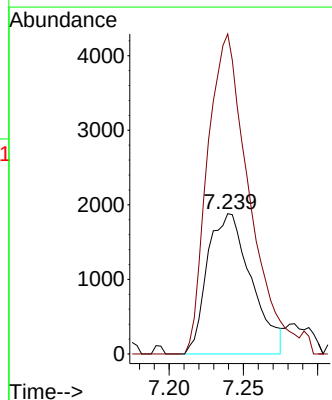
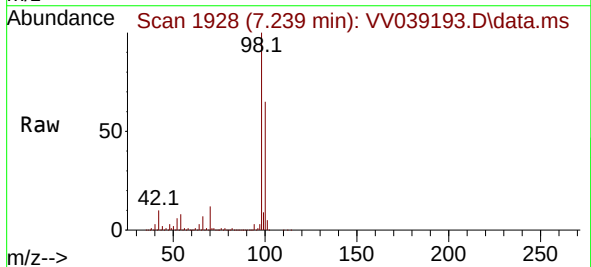
Instrument :
MSVOA_V
ClientSampleId :

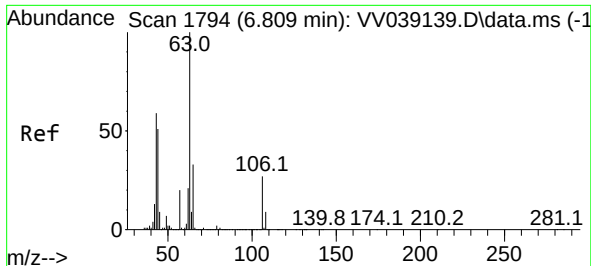
Tgt Ion: 98 Resp: 1050090
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.305 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.093 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 43 Resp: 3860
Ion Ratio Lower Upper
43 100
58 219.4 32.3 48.5#

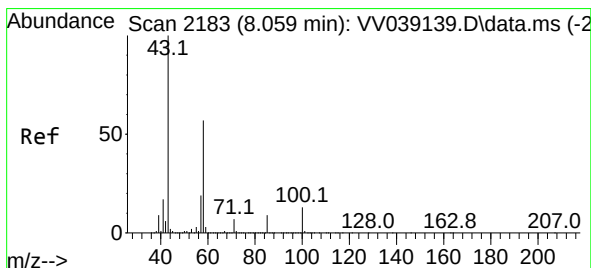
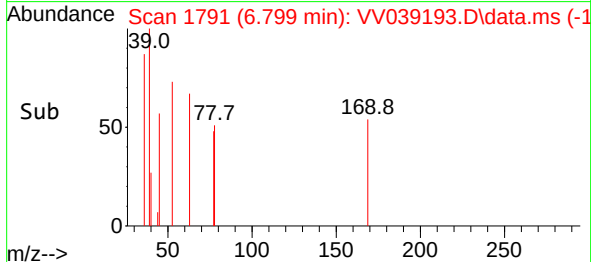
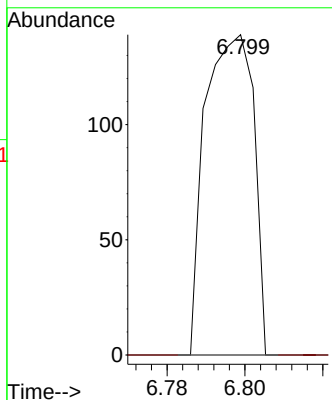
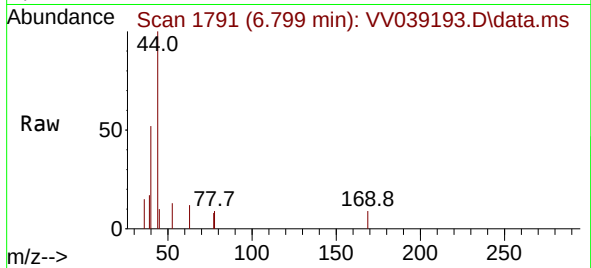




#58
2-Chloroethyl Vinyl ether
Concen: 9.640 ug/l
RT: 6.799 min Scan# 11
Delta R.T. -0.010 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

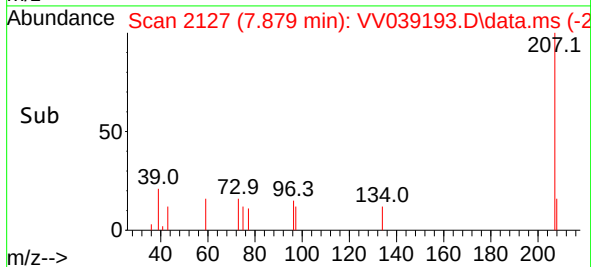
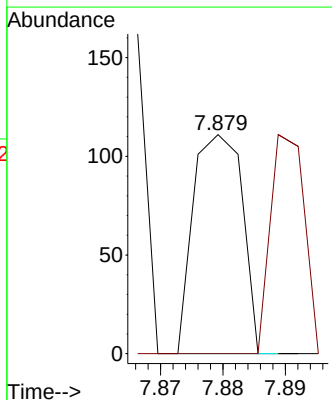
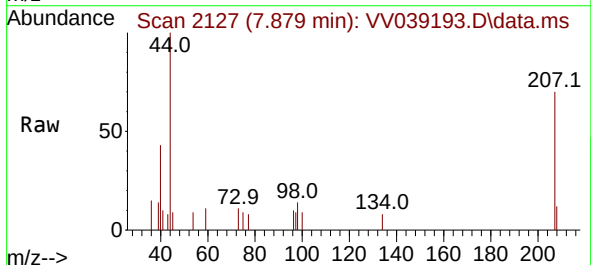
Instrument :
MSVOA_V
ClientSampleId :

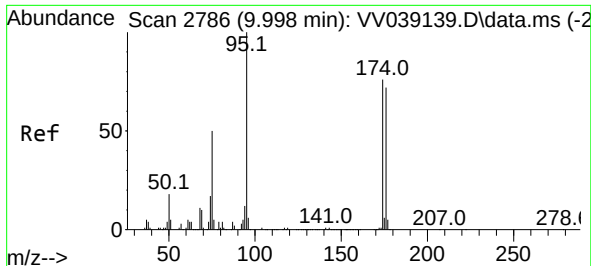
Tgt Ion: 63 Resp: 120
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.331 ug/l
RT: 7.879 min Scan# 2127
Delta R.T. -0.180 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 70.0 28.3 85.0

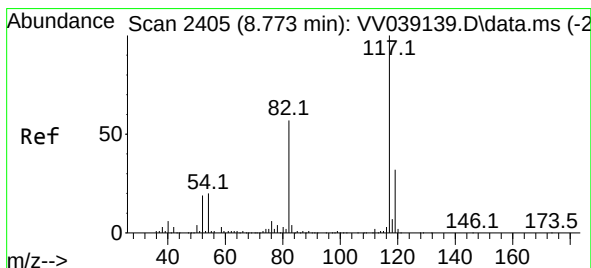
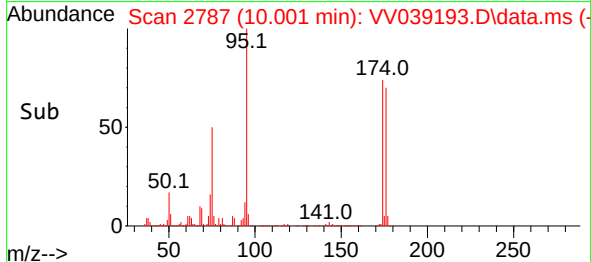
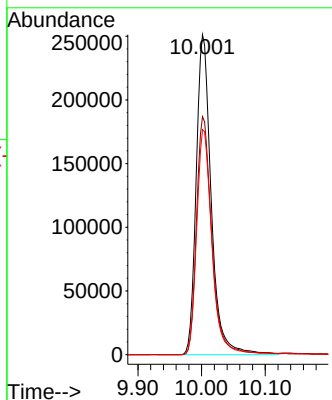
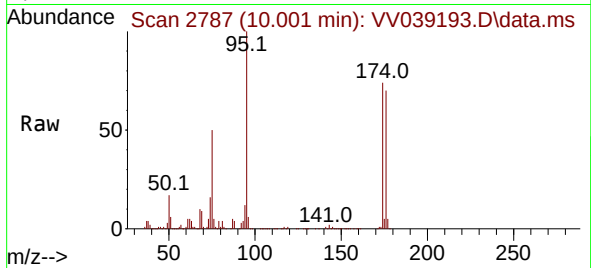




#62
4-Bromofluorobenzene
Concen: 44.327 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

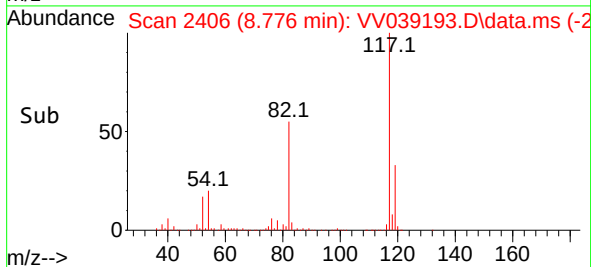
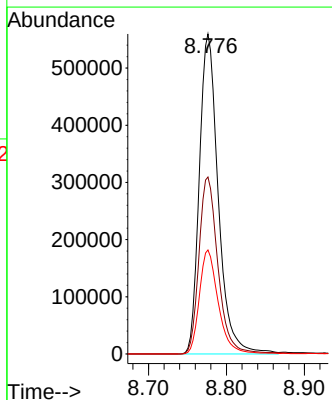
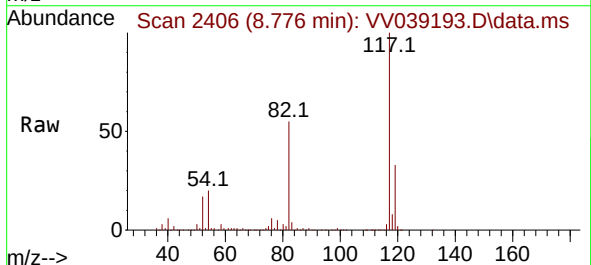
Instrument :
MSVOA_V
ClientSampleId :

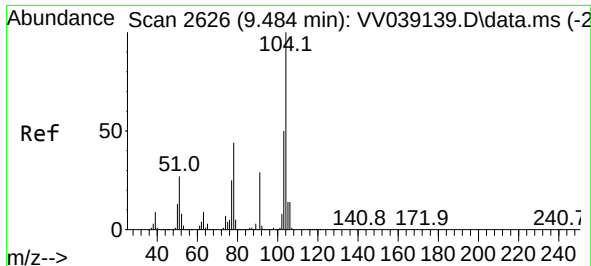
Tgt Ion: 95 Resp: 412268
Ion Ratio Lower Upper
95 100
174 75.6 0.0 150.4
176 71.3 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 117 Resp: 943207
Ion Ratio Lower Upper
117 100
82 55.3 45.4 68.2
119 32.5 25.6 38.4

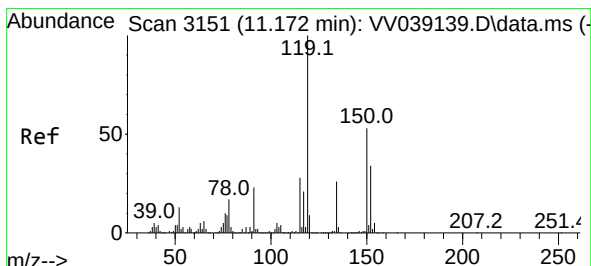
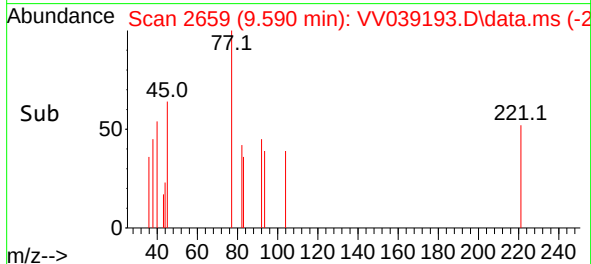
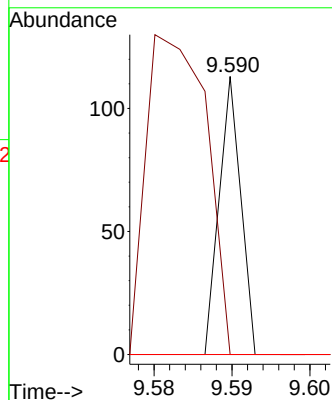
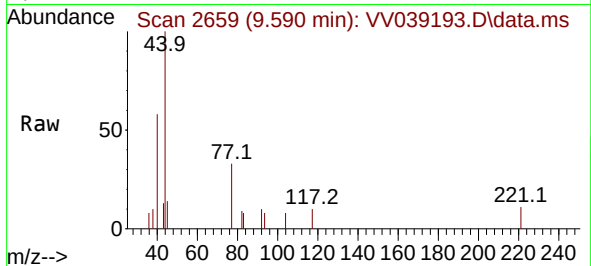




#70
Styrene
Concen: 1.562 ug/l
RT: 9.590 min Scan# 21
Delta R.T. 0.106 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

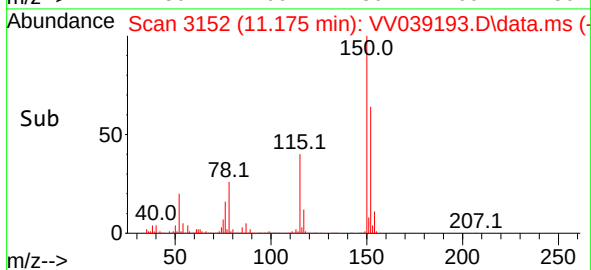
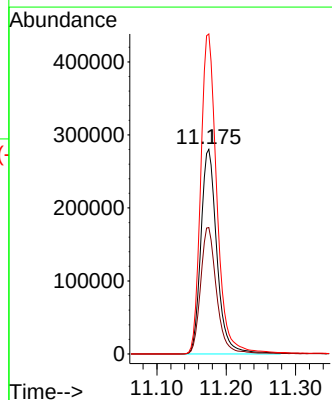
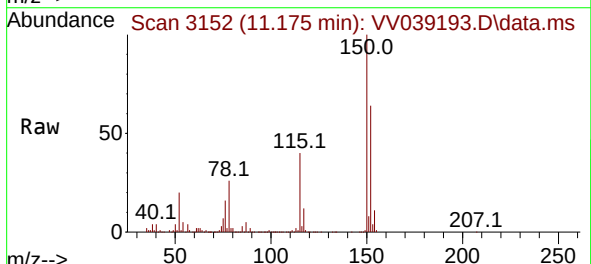
Instrument :
MSVOA_V
ClientSampleId :

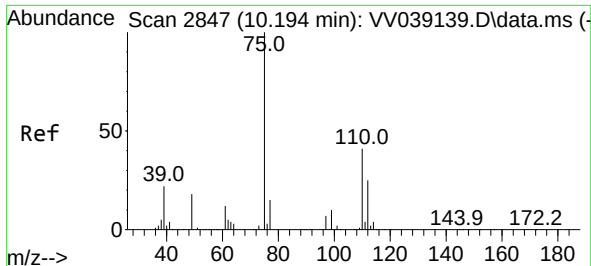
Tgt Ion:104 Resp: 22
Ion Ratio Lower Upper
104 100
78 318.2 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion:152 Resp: 451495
Ion Ratio Lower Upper
152 100
115 61.9 44.8 134.4
150 157.3 0.0 353.8

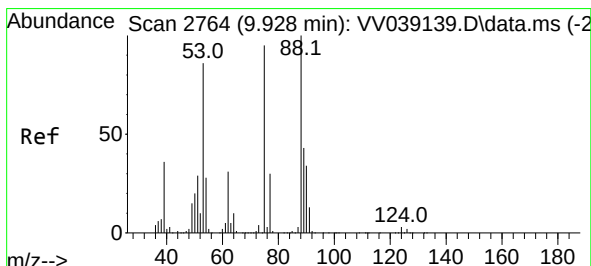
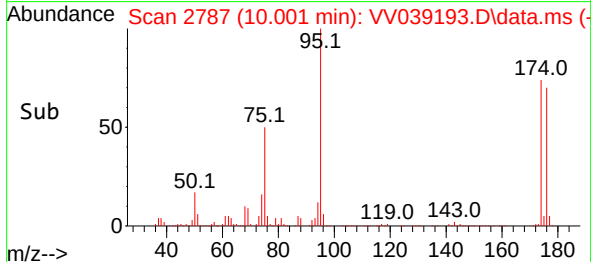
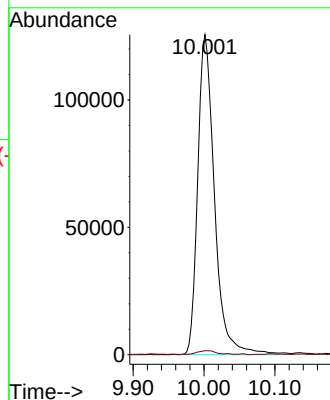
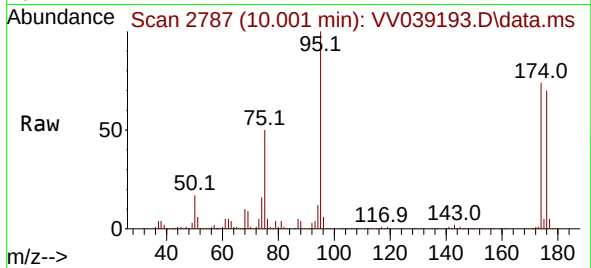




#76
1,2,3-Trichloropropane
Concen: 20.058 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.193 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

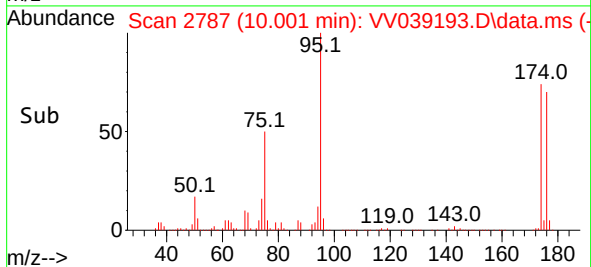
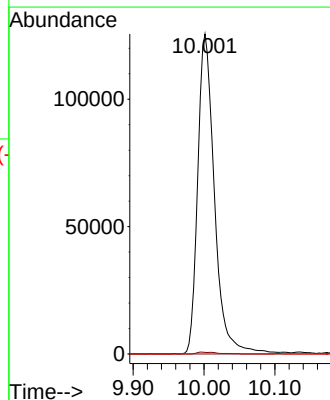
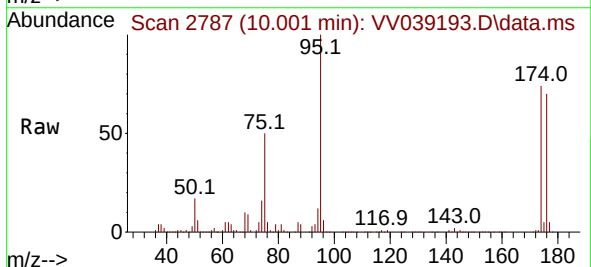
Instrument :
MSVOA_V
ClientSampleId :

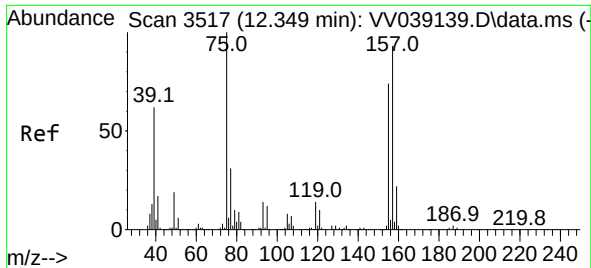
Tgt Ion: 75 Resp: 206196
Ion Ratio Lower Upper
75 100
77 1.2 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 48.154 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

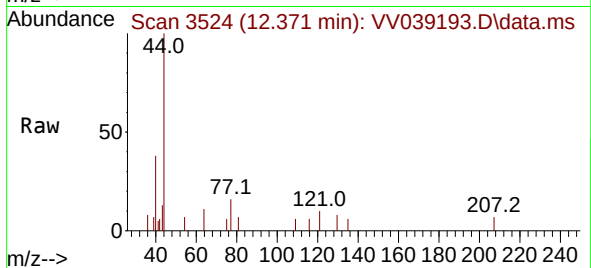
Tgt Ion: 75 Resp: 206196
Ion Ratio Lower Upper
75 100
53 0.6 72.5 108.7#
89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.371 min Scan# 31
 Delta R.T. 0.022 min
 Lab File: VV039193.D
 Acq: 25 Sep 2025 19:40

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	75	Resp:	20
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

