

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039250.D
 Acq On : 03 Oct 2025 15:27
 Operator : SY/MD
 Sample : Q3201-08
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 TRIP-BLANK

Quant Time: Oct 04 01:12:02 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)

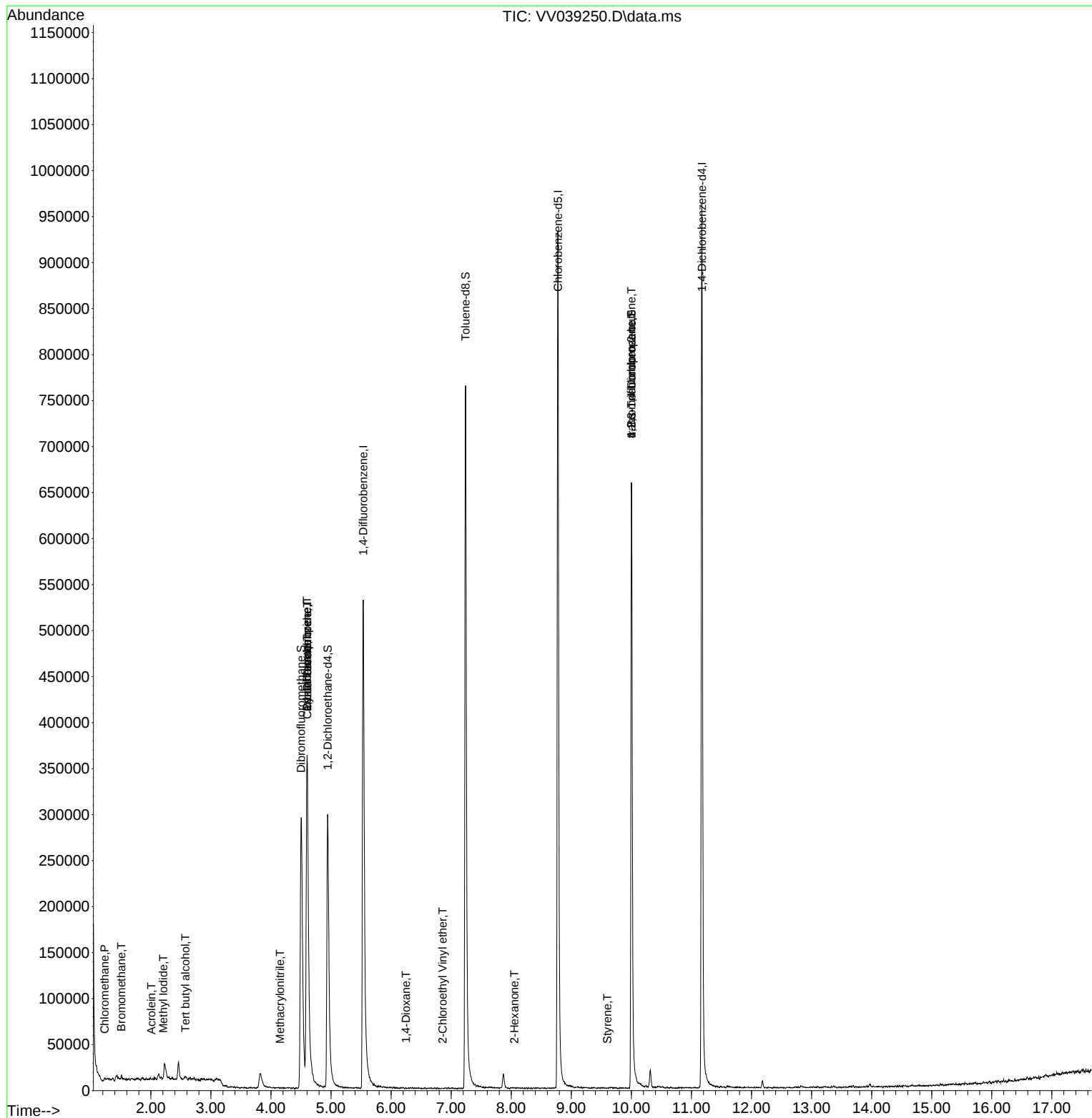
Internal Standards						
1) Pentafluorobenzene	4.603	168	323029	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	535676	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.777	117	545144	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	264732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	259998	55.612	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	111.220%
35) Dibromofluoromethane	4.503	113	254125	59.011	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	118.020%
50) Toluene-d8	7.240	98	559880	44.266	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	88.540%#
62) 4-Bromofluorobenzene	10.002	95	232498	44.653	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	89.300%
Target Compounds						
						Qvalue
3) Chloromethane	1.230	50	1246	0.227	ug/l #	64
5) Bromomethane	1.510	94	1172	0.316	ug/l	94
6) Chloroethane	1.565	64	278	Below Cal	#	44
10) Methyl Iodide	2.204	142	1308	0.271	ug/l #	92
11) Tert butyl alcohol	2.577	59	232	0.235	ug/l #	1
13) Acrolein	2.008	56	91	0.531	ug/l #	1
16) Acetone	2.130	43	6526	Below Cal	#	88
20) Methylene Chloride	2.462	84	8664	Below Cal		90
31) Cyclohexane	4.603	56	6862	0.823	ug/l #	17
36) 1,1-Dichloropropene	4.600	75	25377	3.898	ug/l #	47
38) Carbon Tetrachloride	4.606	117	33645	4.228	ug/l #	17
41) Methacrylonitrile	4.150	41	69	1.929	ug/l #	19
49) 1,4-Dioxane	6.246	88	58	0.736	ug/l #	12
58) 2-Chloroethyl Vinyl ether	6.857	63	40	9.633	ug/l #	47
59) 2-Hexanone	8.053	43	141	2.350	ug/l #	23
70) Styrene	9.600	104	21	1.563	ug/l #	26
76) 1,2,3-Trichloropropane	10.002	75	109757	18.209	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.002	75	109757	43.715	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.506	75	46	Below Cal	#	5

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

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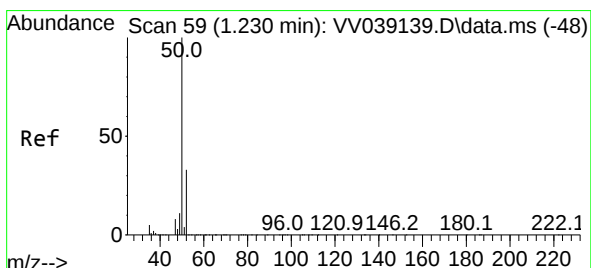
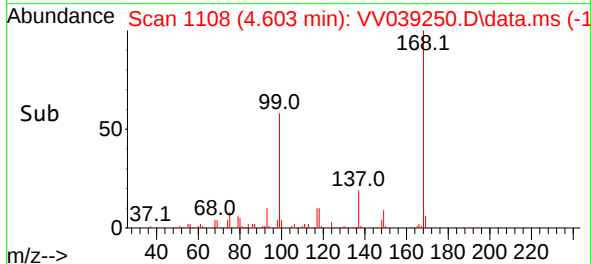
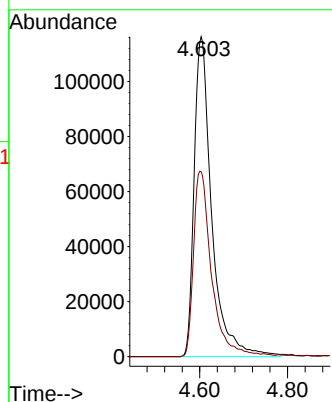
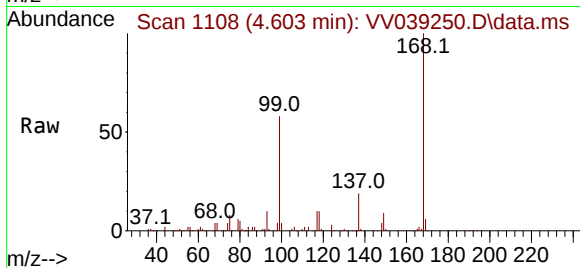




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

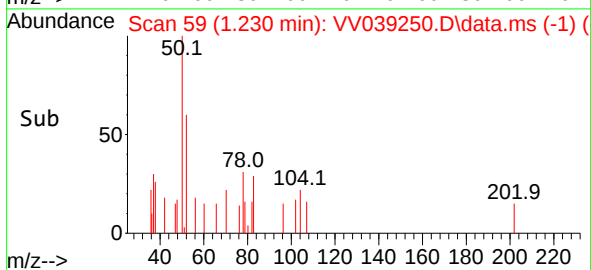
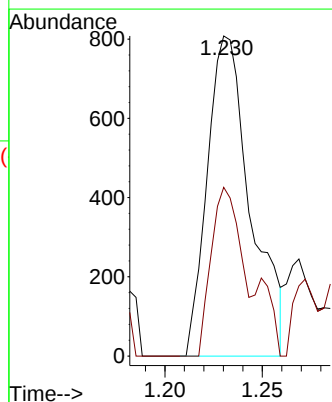
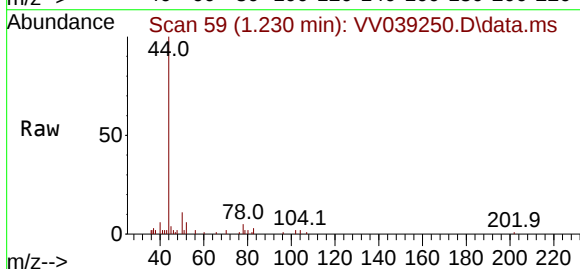
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

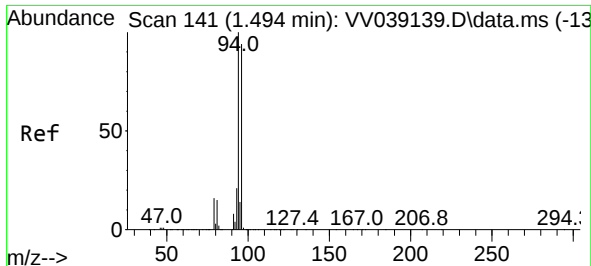
Tgt Ion:168 Resp: 323029
Ion Ratio Lower Upper
168 100
99 57.7 49.6 74.4



#3
Chloromethane
Concen: 0.227 ug/l
RT: 1.230 min Scan# 59
Delta R.T. 0.000 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 50 Resp: 1246
Ion Ratio Lower Upper
50 100
52 52.7 26.0 39.0#

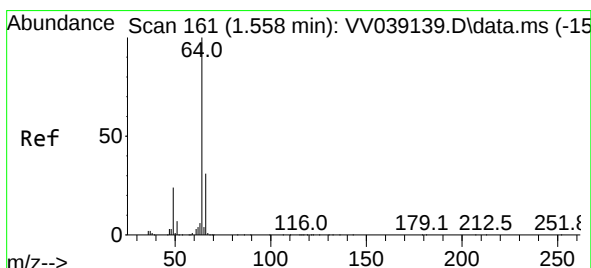
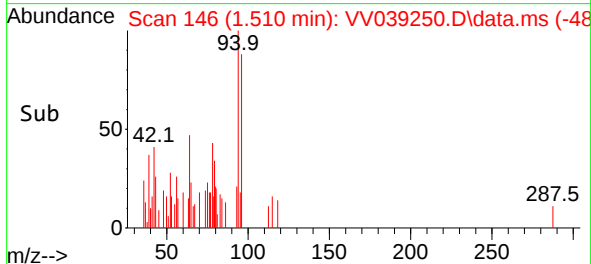
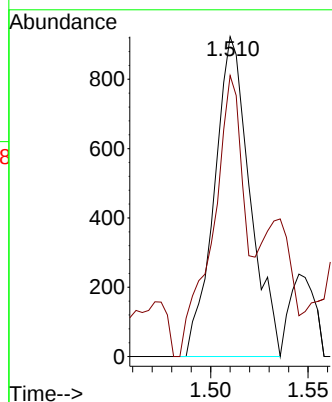
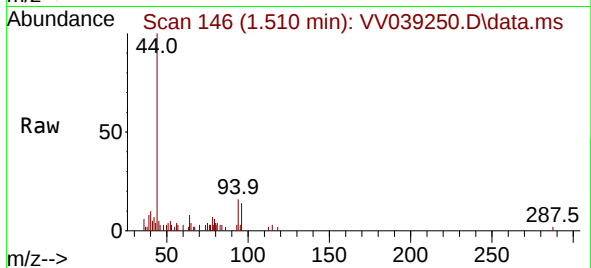




#5
Bromomethane
Concen: 0.316 ug/l
RT: 1.510 min Scan# 141
Delta R.T. 0.016 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

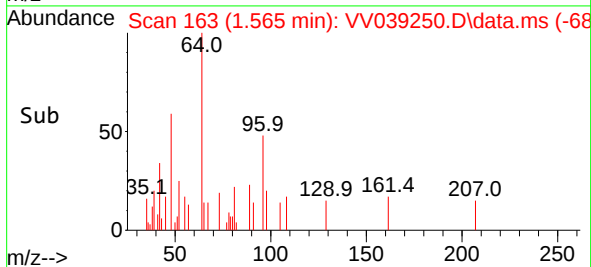
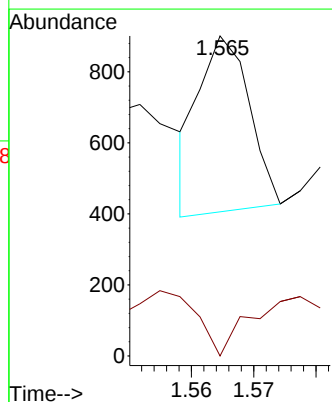
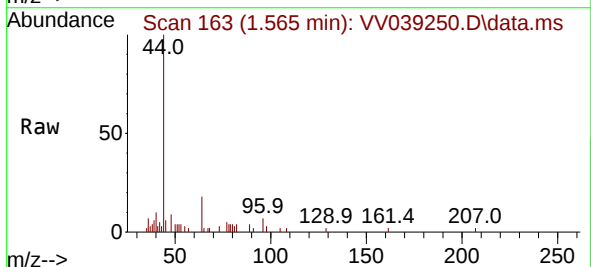
Instrument :
MSVOA_V
ClientSampleId :
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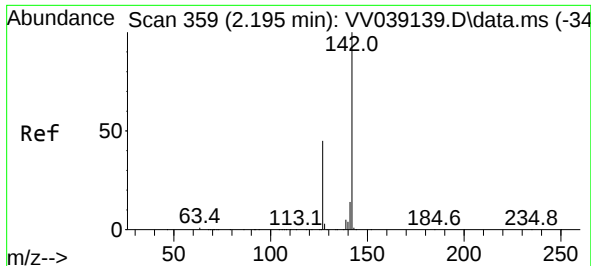
Tgt Ion: 94 Resp: 1172
Ion Ratio Lower Upper
94 100
96 87.9 74.9 112.3



#6
Chloroethane
Concen: Below Cal
RT: 1.565 min Scan# 163
Delta R.T. 0.007 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 64 Resp: 278
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

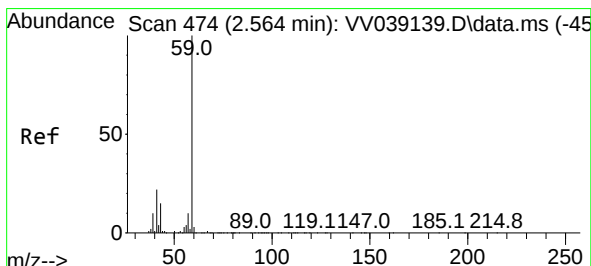
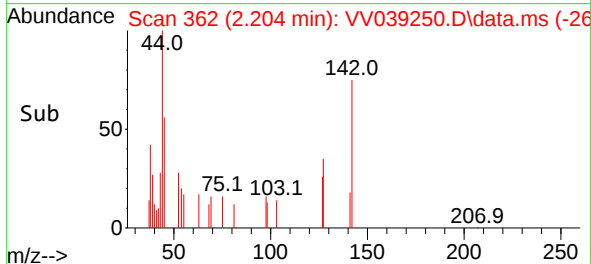
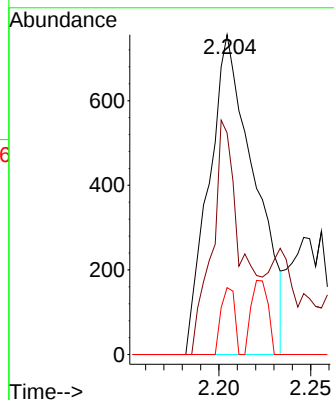
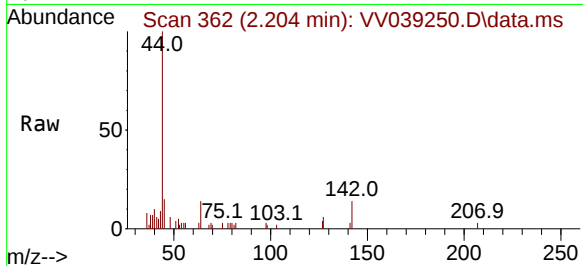




#10
Methyl Iodide
Concen: 0.271 ug/l
RT: 2.204 min Scan# 30
Delta R.T. 0.010 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

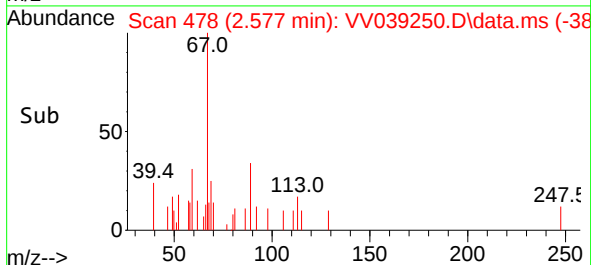
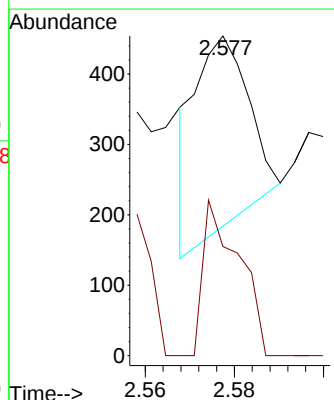
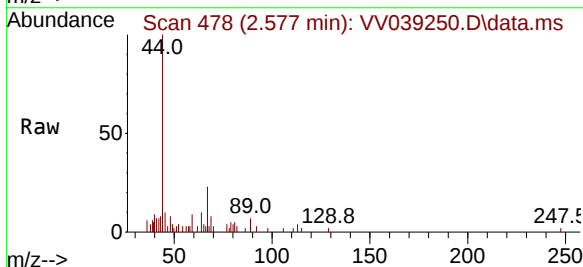
Instrument :
MSVOA_V
ClientSampleId :
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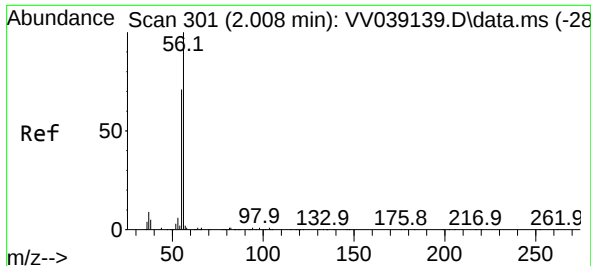
Tgt Ion:142 Resp: 1308
Ion Ratio Lower Upper
142 100
127 48.4 36.3 54.5
141 6.2 11.2 16.8#



#11
Tert butyl alcohol
Concen: 0.235 ug/l
RT: 2.577 min Scan# 478
Delta R.T. 0.013 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 59 Resp: 232
Ion Ratio Lower Upper
59 100
57 53.0 7.8 11.8#





#13

Acrolein

Concen: 0.531 ug/l

RT: 2.008 min Scan# 301

Delta R.T. 0.000 min

Lab File: VV039250.D

Acq: 03 Oct 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

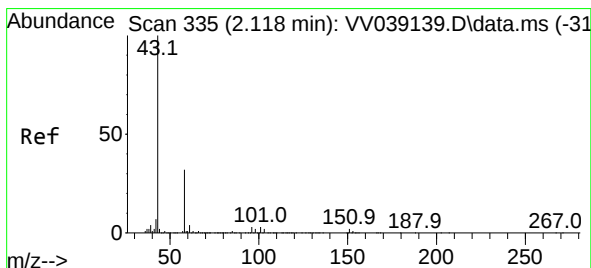
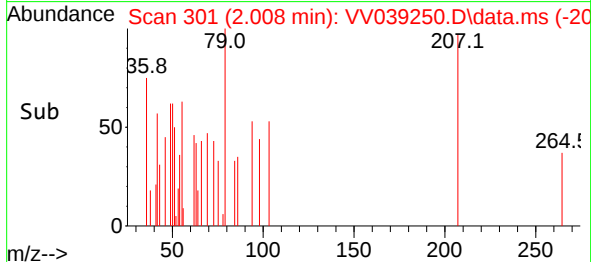
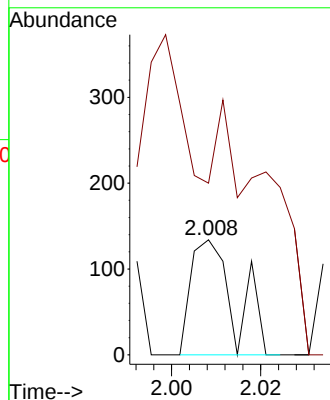
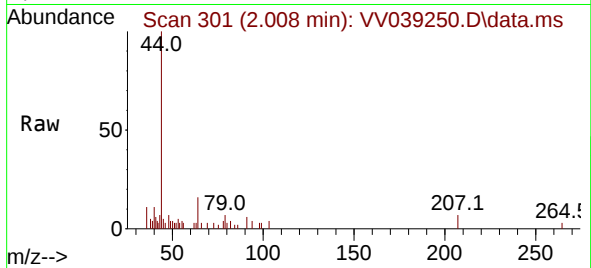
TRIP-BLANK

Tgt Ion: 56 Resp: 91

Ion Ratio Lower Upper

56 100

55 431.9 56.2 84.4#



#16

Acetone

Concen: Below Cal

RT: 2.130 min Scan# 339

Delta R.T. 0.012 min

Lab File: VV039250.D

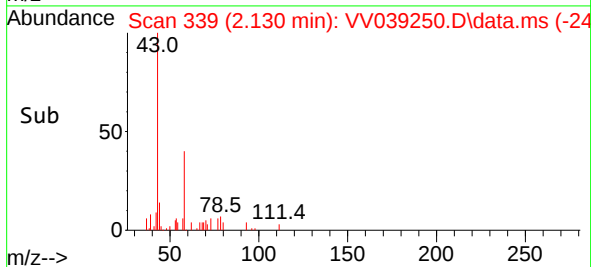
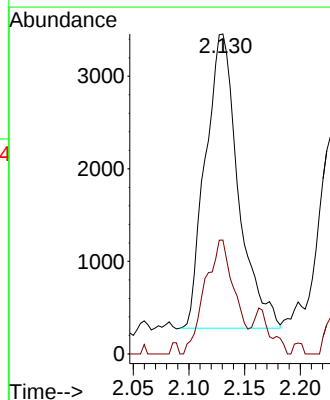
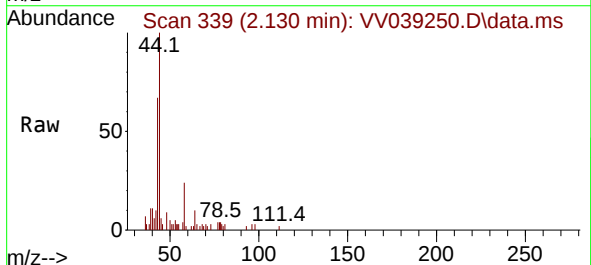
Acq: 03 Oct 2025 15:27

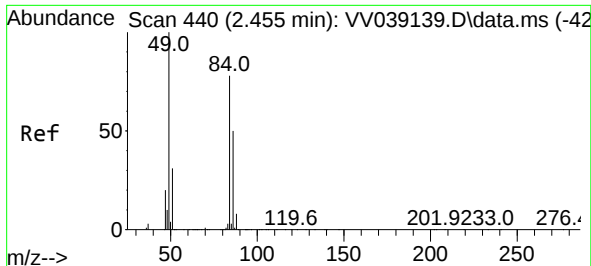
Tgt Ion: 43 Resp: 6526

Ion Ratio Lower Upper

43 100

58 38.7 25.8 38.6#

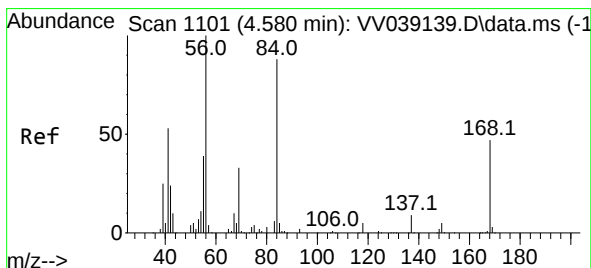
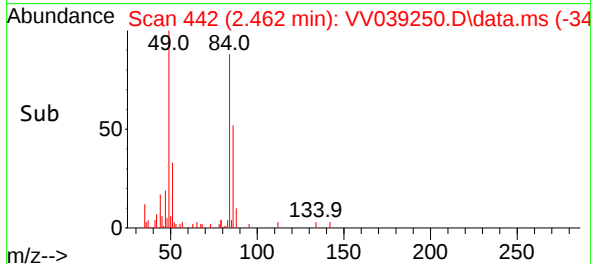
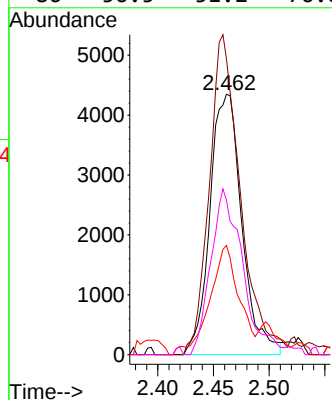
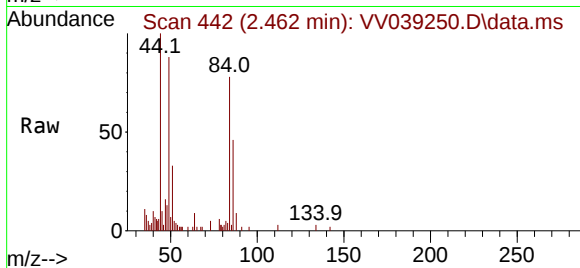




#20
Methylene Chloride
Concen: Below Cal
RT: 2.462 min Scan# 440
Delta R.T. 0.007 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

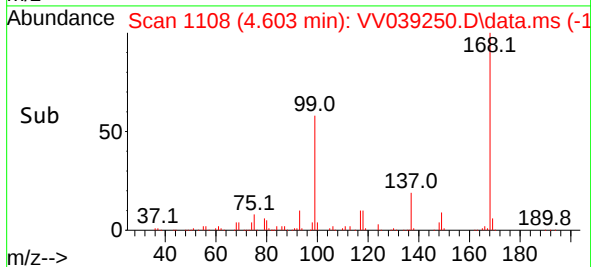
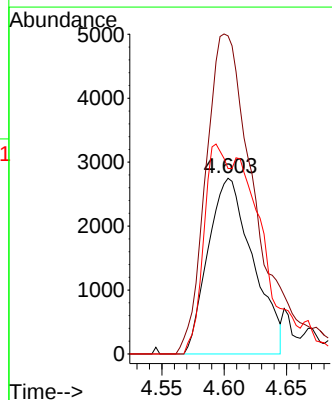
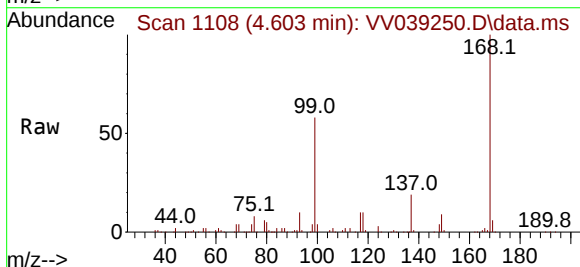
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

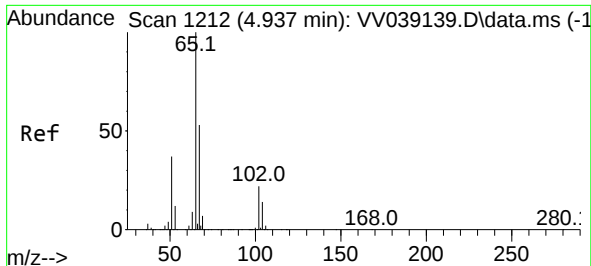
Tgt Ion:	84	Resp:	8664
Ion	Ratio	Lower	Upper
84	100		
49	113.7	102.8	154.2
51	38.7	31.9	47.9
86	56.5	51.2	76.8



#31
Cyclohexane
Concen: 0.823 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion:	56	Resp:	6862
Ion	Ratio	Lower	Upper
56	100		
69	177.4	26.2	39.2#
84	105.5	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 55.612 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.007 min

Lab File: VV039250.D

Acq: 03 Oct 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

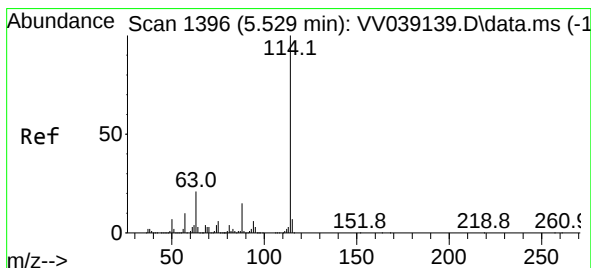
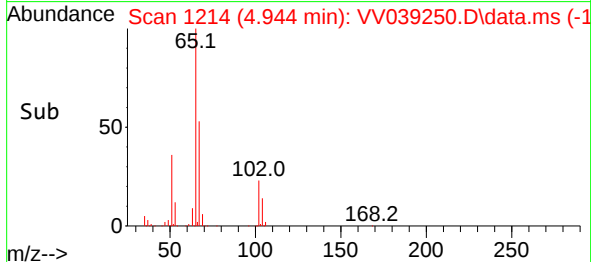
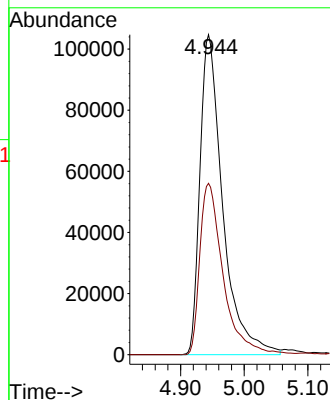
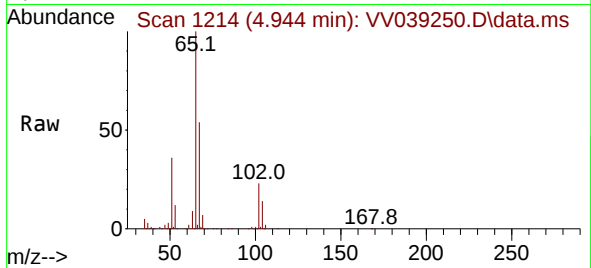
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Tgt Ion: 65 Resp: 259998

Ion Ratio Lower Upper

65 100

67 54.3 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: VV039250.D

Acq: 03 Oct 2025 15:27

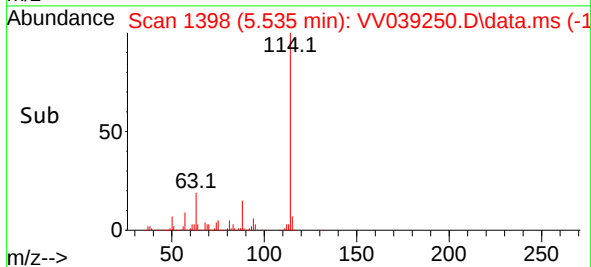
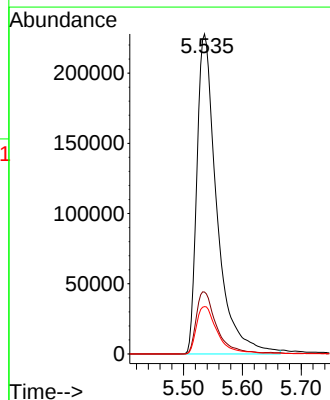
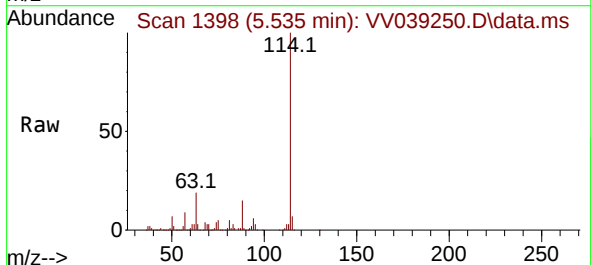
Tgt Ion:114 Resp: 535676

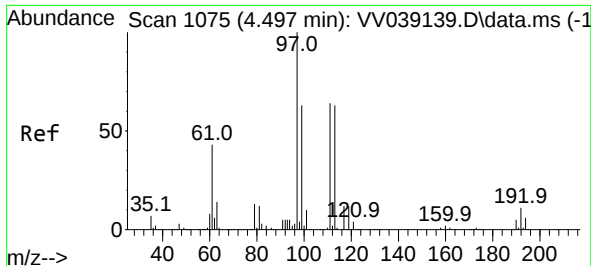
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

88 14.8 0.0 30.8

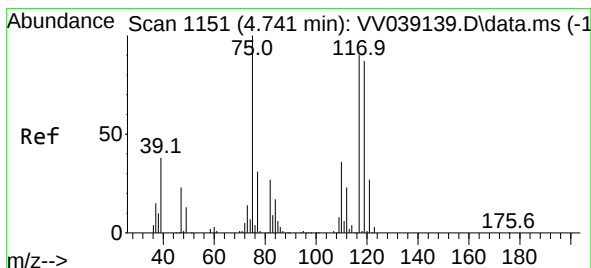
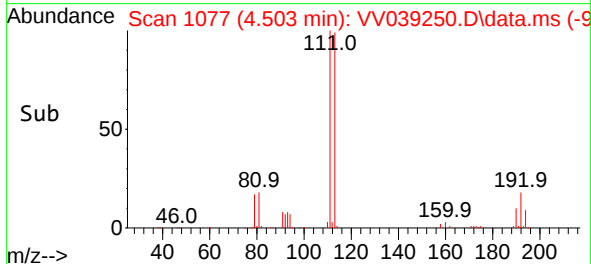
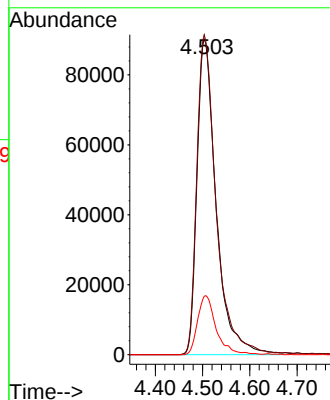
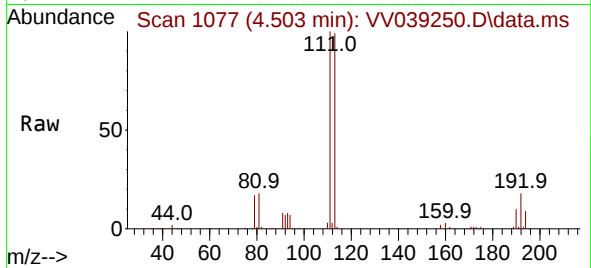




#35
Dibromofluoromethane
Concen: 59.011 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. 0.007 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

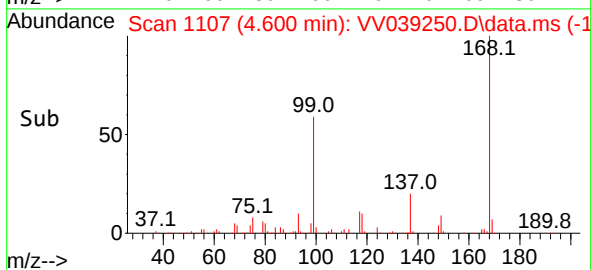
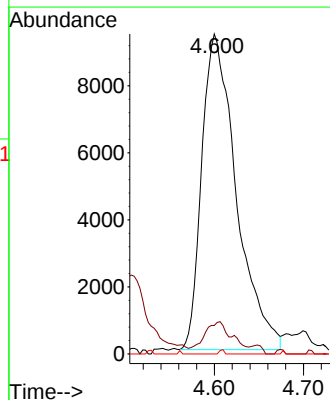
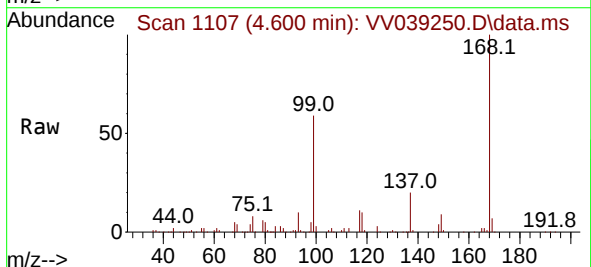
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

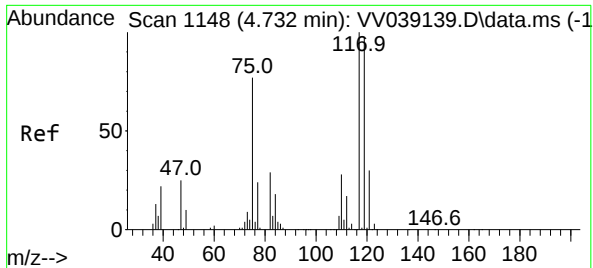
Tgt Ion:113 Resp: 254125
Ion Ratio Lower Upper
113 100
111 102.1 82.4 123.6
192 17.8 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.898 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

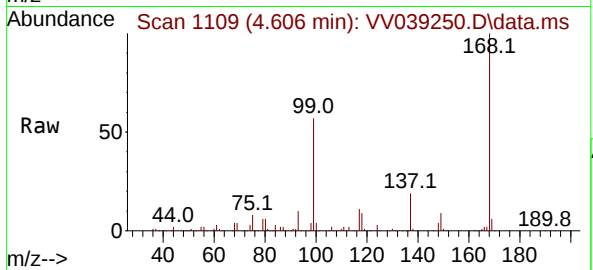
Tgt Ion: 75 Resp: 25377
Ion Ratio Lower Upper
75 100
110 6.2 18.1 54.1#
77 0.2 24.8 37.2#



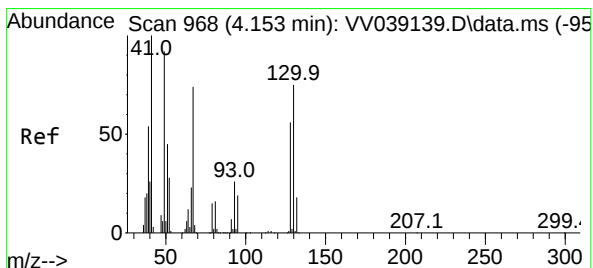
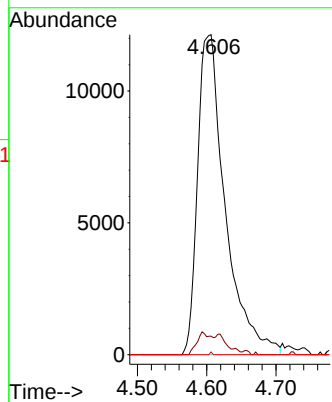
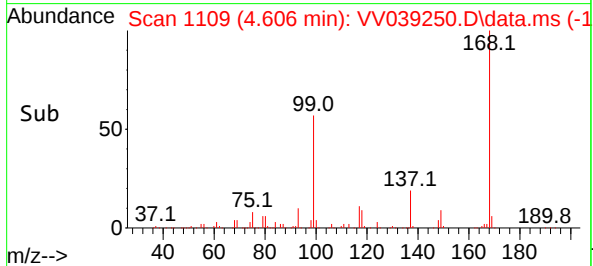


#38
Carbon Tetrachloride
Concen: 4.228 ug/l
RT: 4.606 min Scan# 1109
Delta R.T. -0.126 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Instrument :
MSVOA_V
ClientSampleId :
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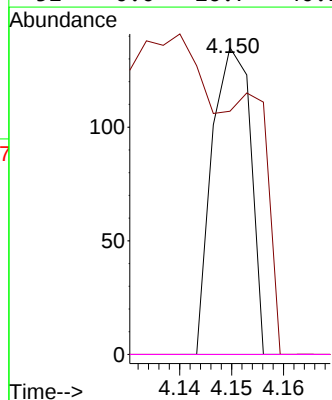
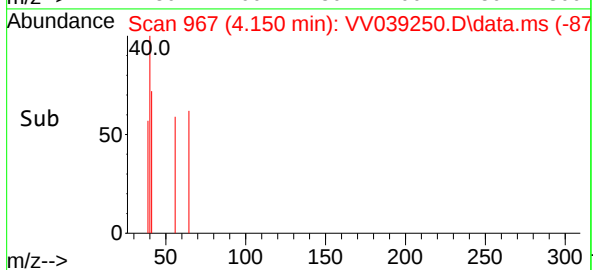
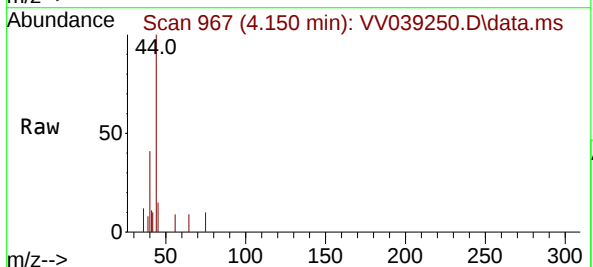


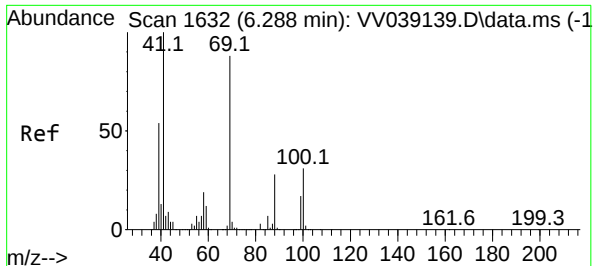
Tgt Ion:117 Resp: 33645
Ion Ratio Lower Upper
117 100
119 5.8 77.2 115.8#
121 0.8 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.929 ug/l
RT: 4.150 min Scan# 967
Delta R.T. -0.003 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 41 Resp: 69
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#

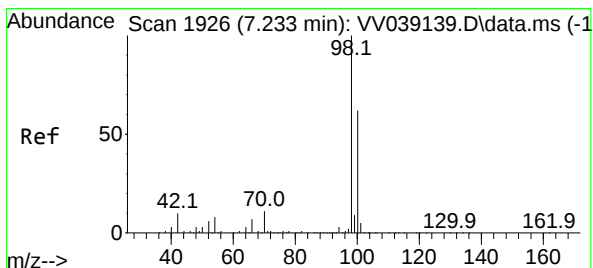
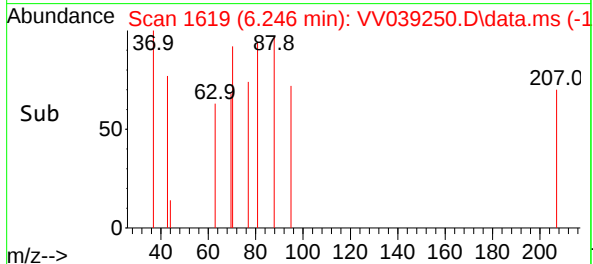
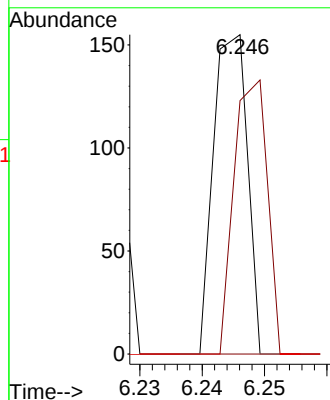
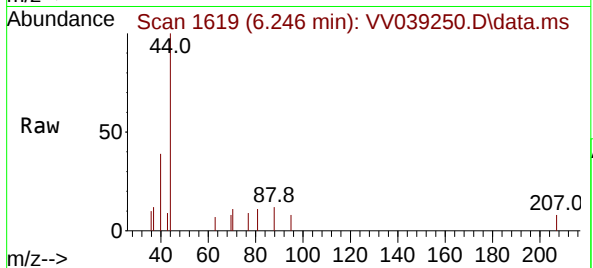




#49
1,4-Dioxane
Concen: 0.736 ug/l
RT: 6.246 min Scan# 1
Delta R.T. -0.042 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

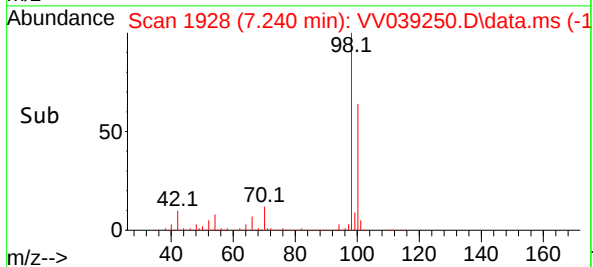
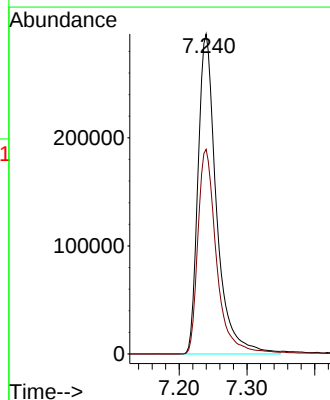
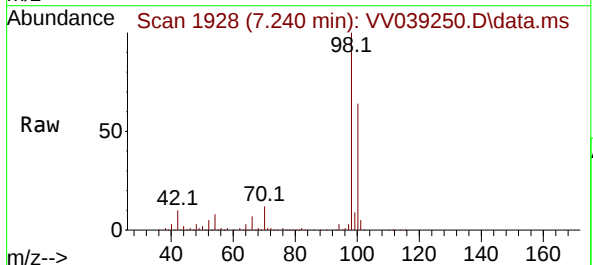
Instrument :
MSVOA_V
ClientSampleId :
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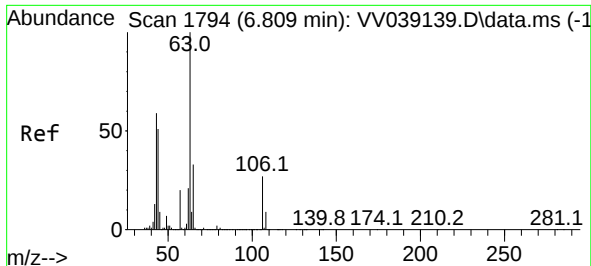
Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 84.5 25.1 37.7#
58 0.0 53.6 80.4#



#50
Toluene-d8
Concen: 44.266 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.007 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 98 Resp: 559880
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2

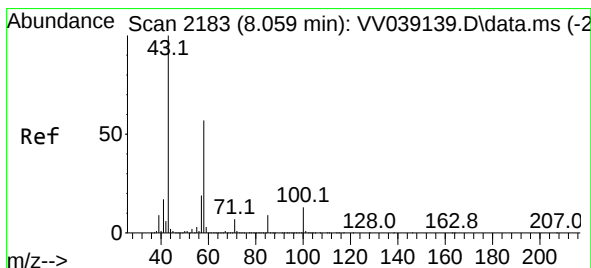
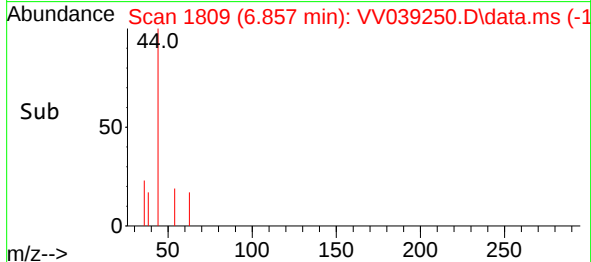
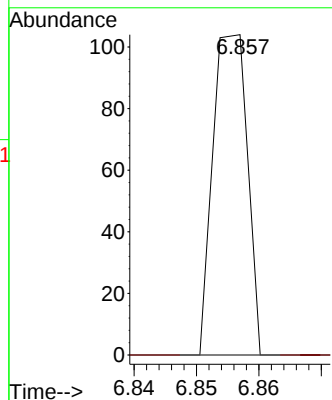
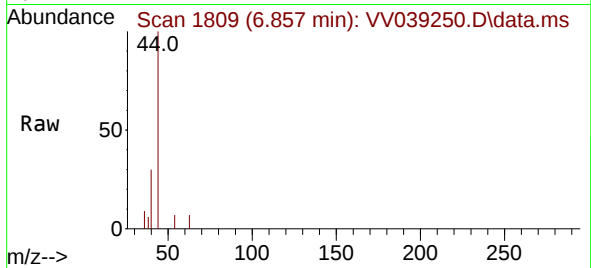




#58
2-Chloroethyl Vinyl ether
Concen: 9.633 ug/l
RT: 6.857 min Scan# 11
Delta R.T. 0.048 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

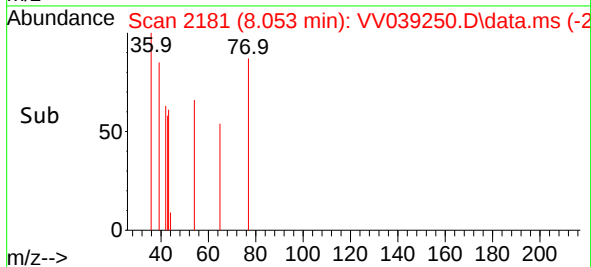
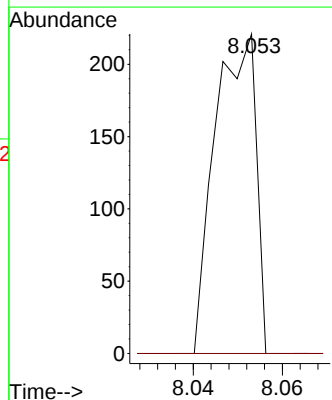
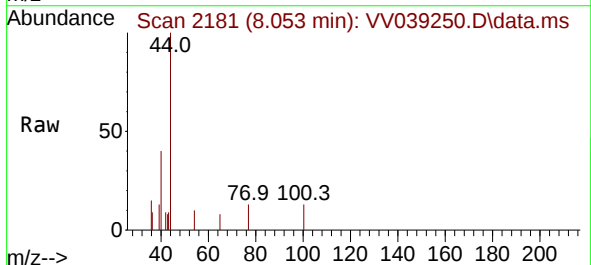
Instrument :
MSVOA_V
ClientSampleId :
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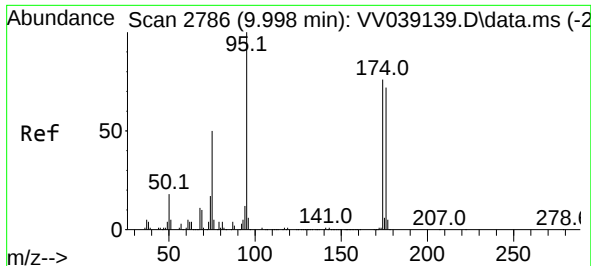
Tgt Ion: 63 Resp: 40
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.350 ug/l
RT: 8.053 min Scan# 2181
Delta R.T. -0.006 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 43 Resp: 141
Ion Ratio Lower Upper
43 100
58 0.0 28.3 85.0#

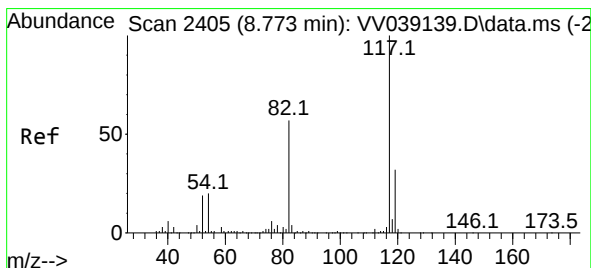
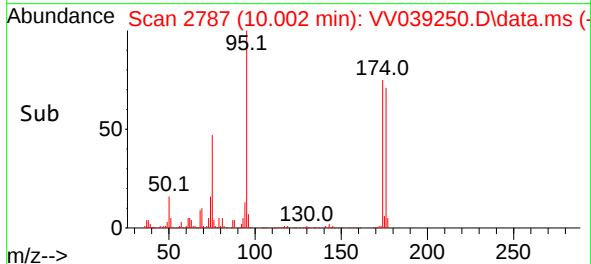
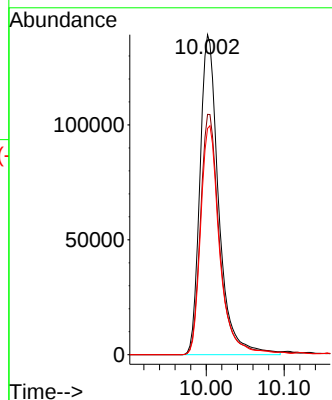
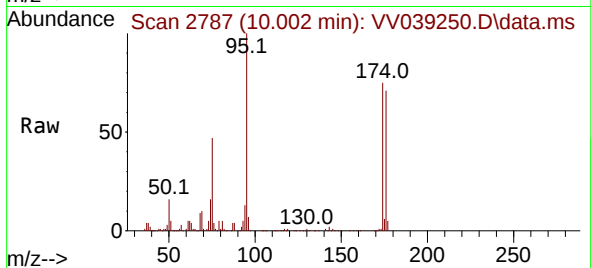




#62
4-Bromofluorobenzene
Concen: 44.653 ug/l
RT: 10.002 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

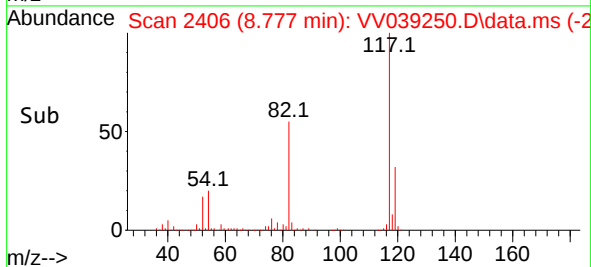
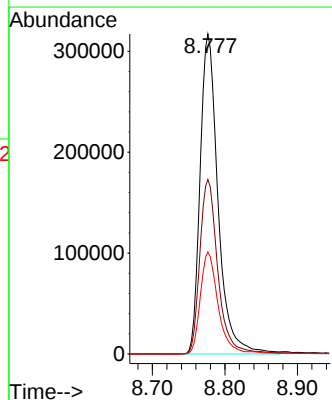
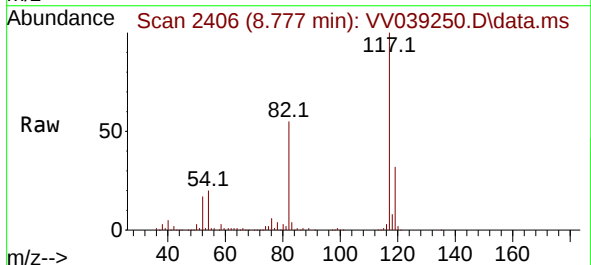
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

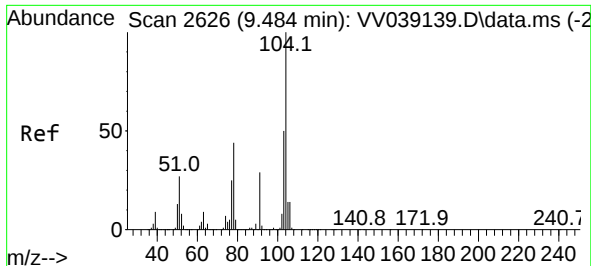
Tgt Ion: 95 Resp: 232498
Ion Ratio Lower Upper
95 100
174 76.7 0.0 150.4
176 72.9 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 2406
Delta R.T. 0.004 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 117 Resp: 545144
Ion Ratio Lower Upper
117 100
82 54.5 45.4 68.2
119 31.9 25.6 38.4

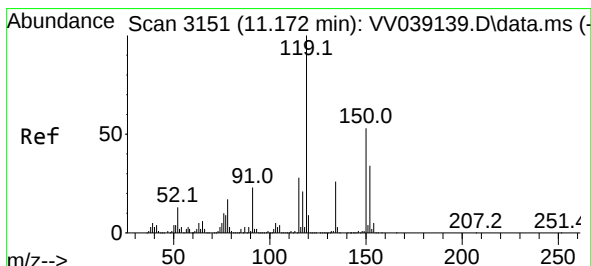
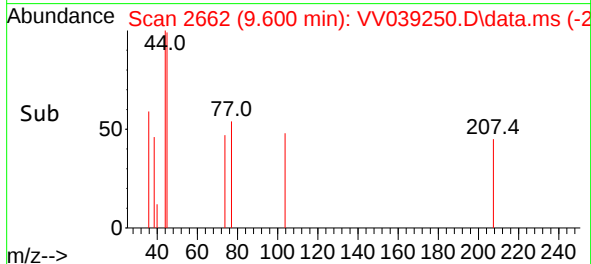
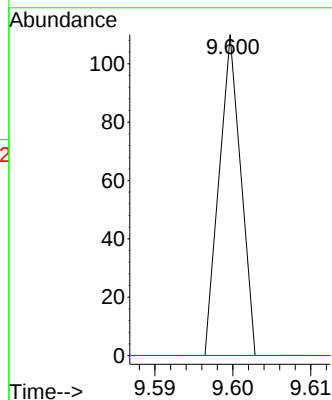
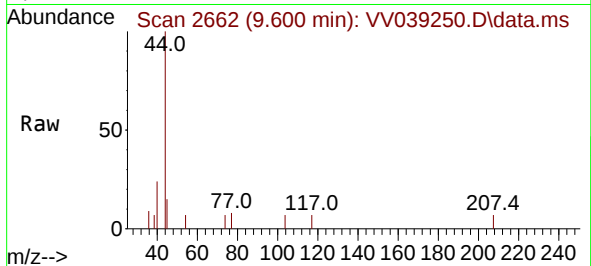




#70
Styrene
Concen: 1.563 ug/l
RT: 9.600 min Scan# 21
Delta R.T. 0.116 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

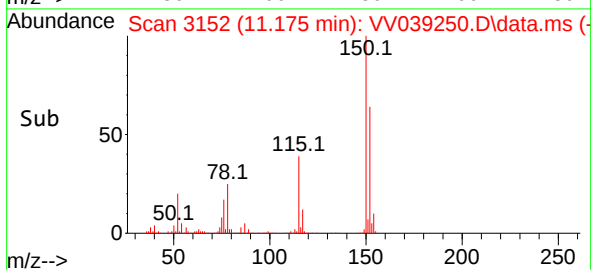
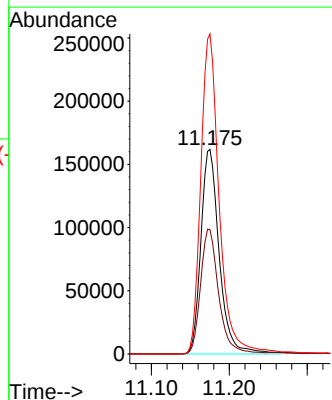
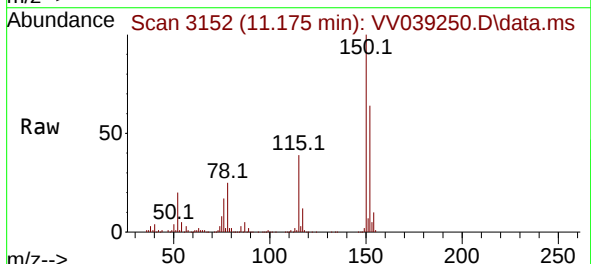
Instrument :
MSVOA_V
ClientSampleId :
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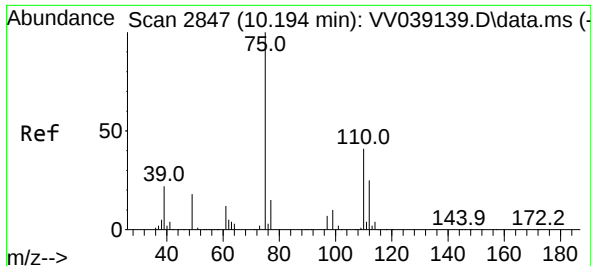
Tgt Ion:104 Resp: 21
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion:152 Resp: 264732
Ion Ratio Lower Upper
152 100
115 60.3 44.8 134.4
150 158.4 0.0 353.8

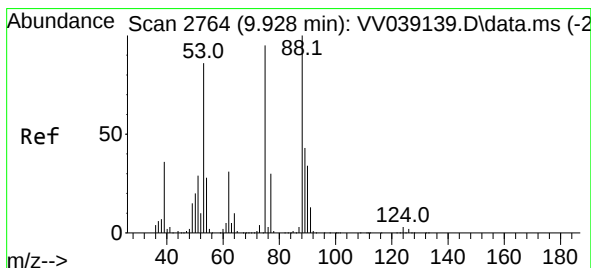
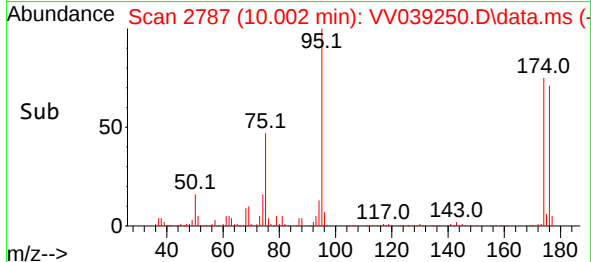
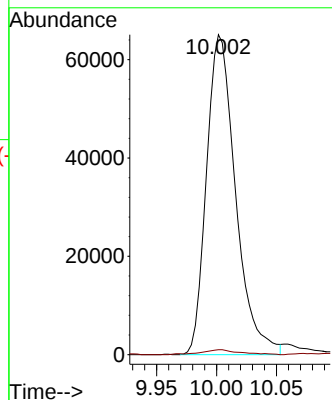
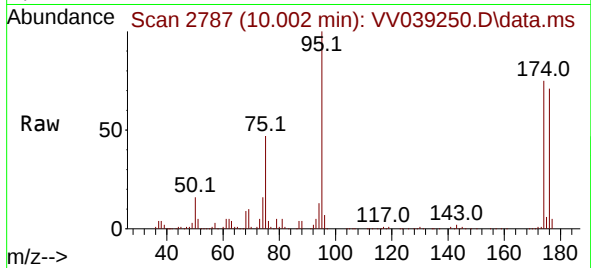




#76
1,2,3-Trichloropropane
Concen: 18.209 ug/l
RT: 10.002 min Scan# 21
Delta R.T. -0.193 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

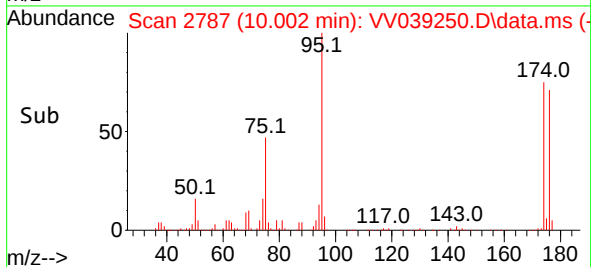
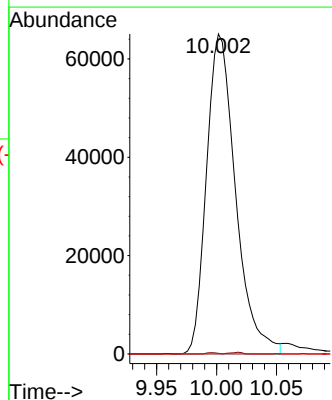
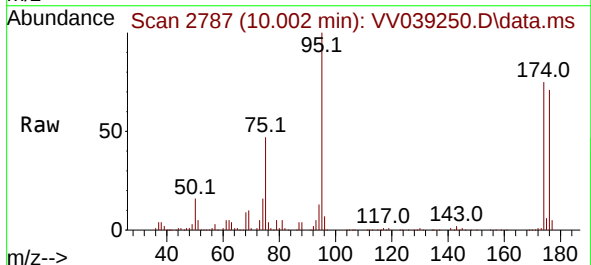
Instrument :
MSVOA_V
ClientSampleId :
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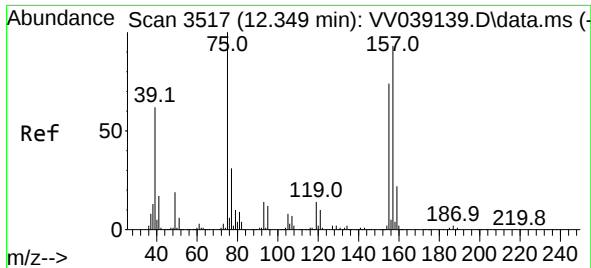
Tgt Ion: 75 Resp: 109757
Ion Ratio Lower Upper
75 100
77 2.1 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 43.715 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039250.D
Acq: 03 Oct 2025 15:27

Tgt Ion: 75 Resp: 109757
Ion Ratio Lower Upper
75 100
53 0.1 72.5 108.7#
89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.506 min Scan# 31

Delta R.T. 0.157 min

Lab File: VV039250.D

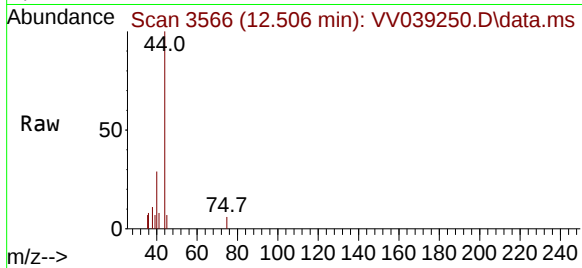
Acq: 03 Oct 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

TRIP-BLANK



Tgt Ion: 75 Resp: 46

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

