

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039251.D
 Acq On : 03 Oct 2025 15:49
 Operator : SY/MD
 Sample : Q3254-09
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 TRIP-BLANK

Quant Time: Oct 04 01:12:28 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)

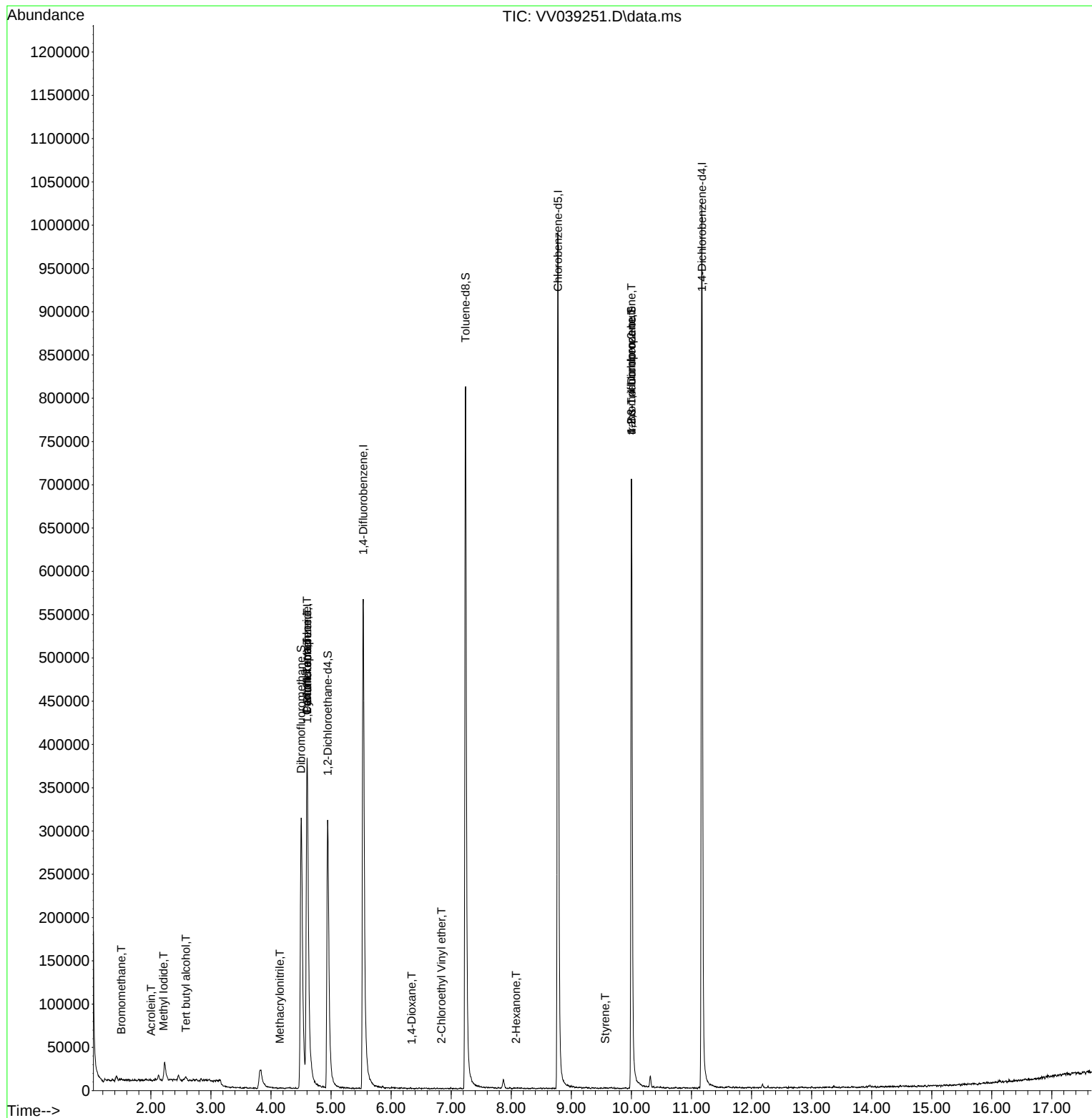
Internal Standards						
1) Pentafluorobenzene	4.603	168	330074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	558191	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	580452	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	279370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	278062	58.207	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	116.420%
35) Dibromofluoromethane	4.503	113	264283	58.894	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	117.780%
50) Toluene-d8	7.239	98	603656	45.802	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	91.600%
62) 4-Bromofluorobenzene	10.001	95	241901	44.585	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	89.160%
Target Compounds						
						Qvalue
5) Bromomethane	1.510	94	860	0.227	ug/l	88
6) Chloroethane	1.542	64	266	Below Cal		96
10) Methyl Iodide	2.211	142	1335	0.271	ug/l #	79
11) Tert butyl alcohol	2.584	59	934	0.925	ug/l	98
13) Acrolein	2.005	56	142	0.811	ug/l #	15
16) Acetone	2.130	43	8051	Below Cal	#	82
20) Methylene Chloride	2.458	84	2975	Below Cal		90
31) Cyclohexane	4.600	56	7763	0.911	ug/l #	1
36) 1,1-Dichloropropene	4.606	75	27981	4.124	ug/l #	47
38) Carbon Tetrachloride	4.600	117	35592	4.292	ug/l #	17
41) Methacrylonitrile	4.146	41	142	1.947	ug/l #	29
49) 1,4-Dioxane	6.342	88	21	0.256	ug/l #	50
58) 2-Chloroethyl Vinyl ether	6.838	63	21	9.628	ug/l #	47
59) 2-Hexanone	8.082	43	20	2.329	ug/l #	23
70) Styrene	9.564	104	40	1.564	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	121433	19.091	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	121433	45.831	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.336	75	23	Below Cal	#	5

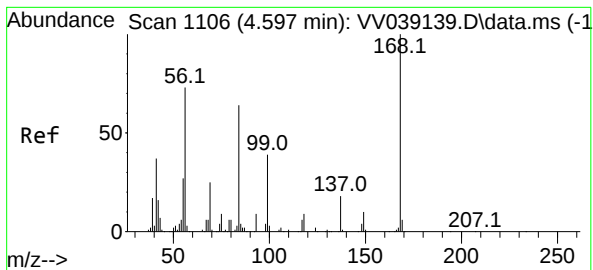
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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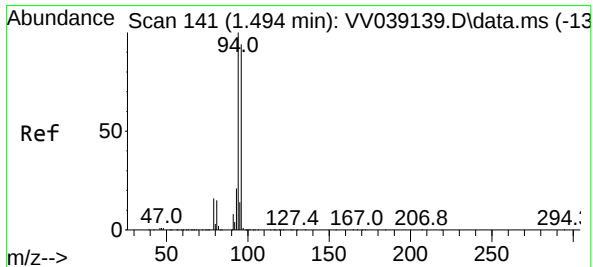
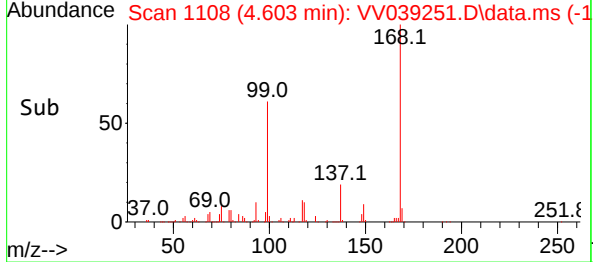
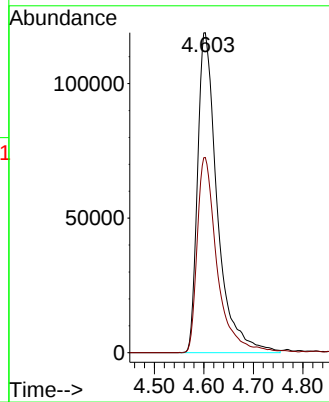
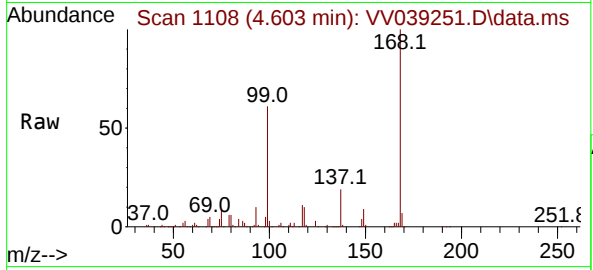




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

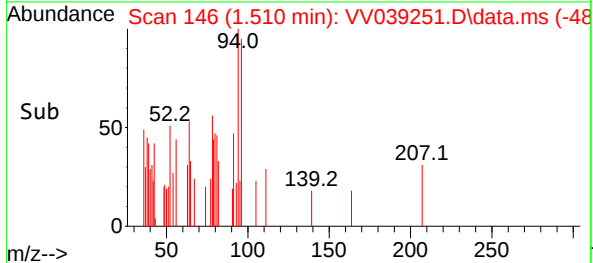
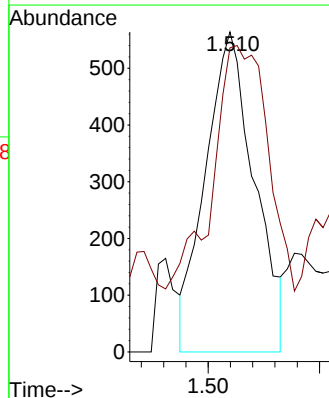
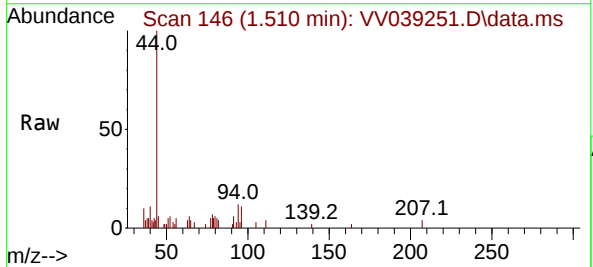
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

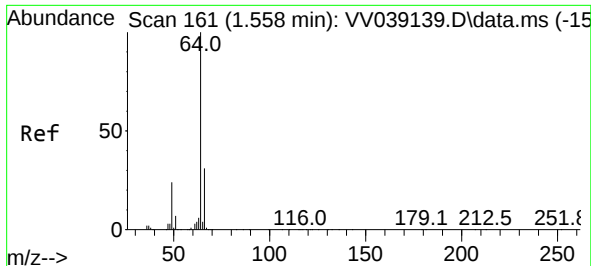
Tgt Ion:168 Resp: 330074
Ion Ratio Lower Upper
168 100
99 60.9 49.6 74.4



#5
Bromomethane
Concen: 0.227 ug/l
RT: 1.510 min Scan# 146
Delta R.T. 0.016 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 94 Resp: 860
Ion Ratio Lower Upper
94 100
96 81.9 74.9 112.3

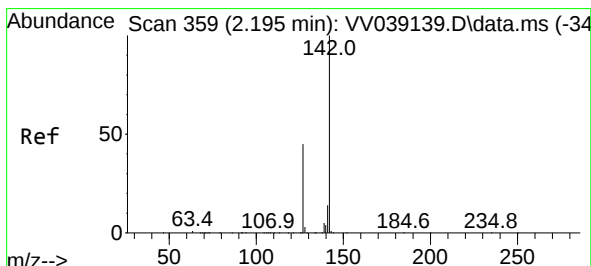
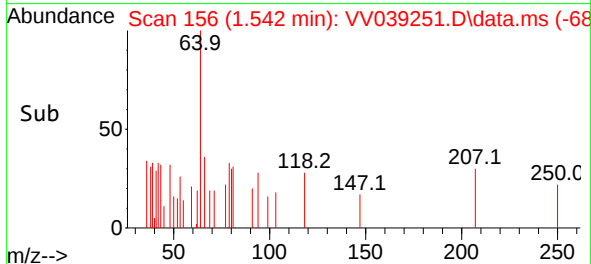
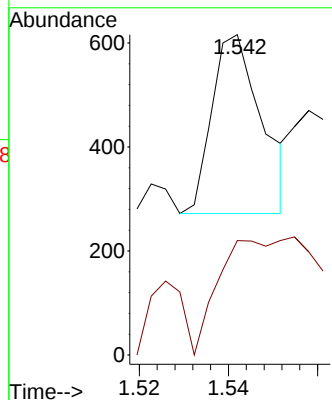
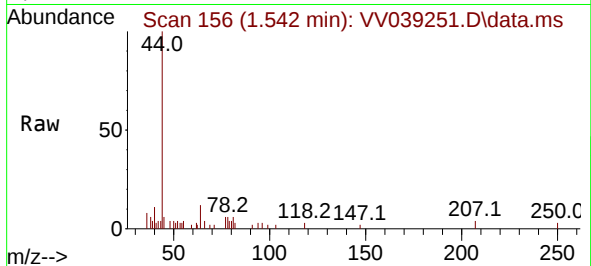




#6
Chloroethane
Concen: Below Cal
RT: 1.542 min Scan# 11
Delta R.T. -0.016 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

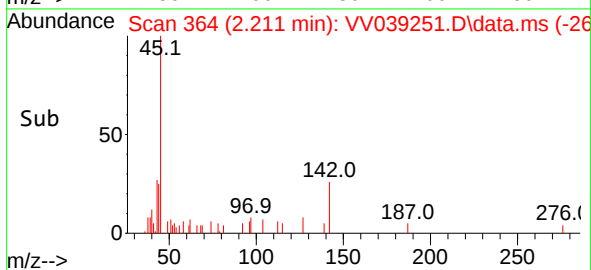
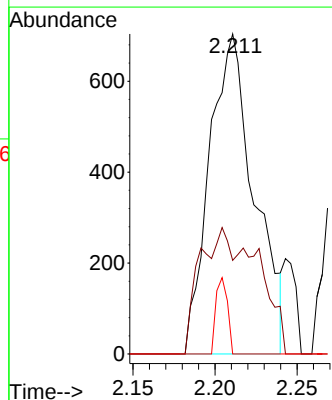
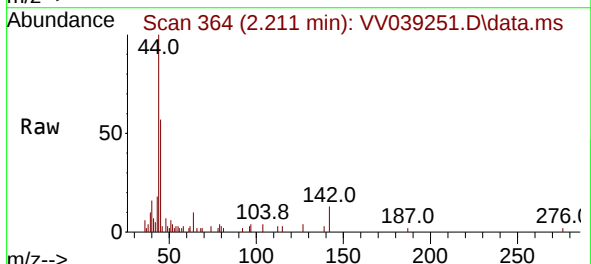
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

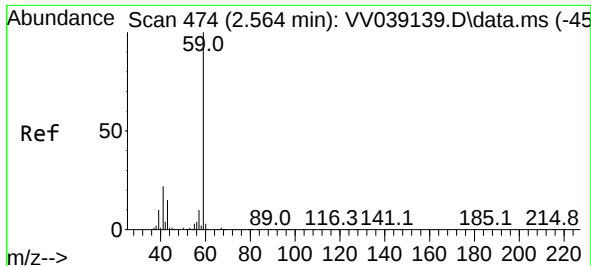
Tgt Ion: 64 Resp: 266
Ion Ratio Lower Upper
64 100
66 28.8 24.6 36.8



#10
Methyl Iodide
Concen: 0.271 ug/l
RT: 2.211 min Scan# 364
Delta R.T. 0.016 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion:142 Resp: 1335
Ion Ratio Lower Upper
142 100
127 31.2 36.3 54.5#
141 6.1 11.2 16.8#

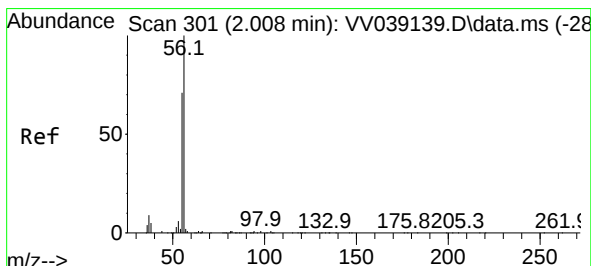
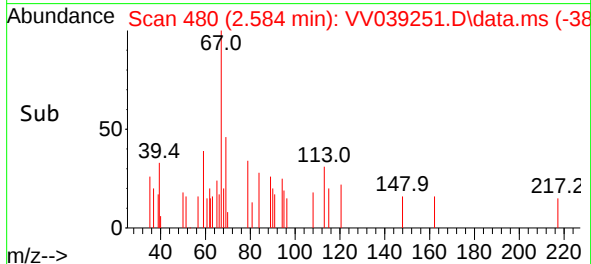
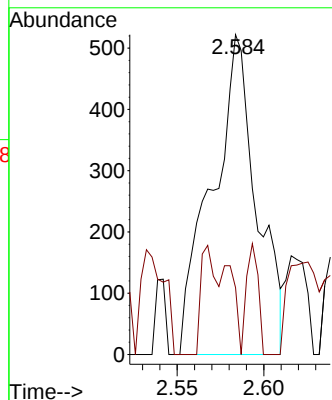
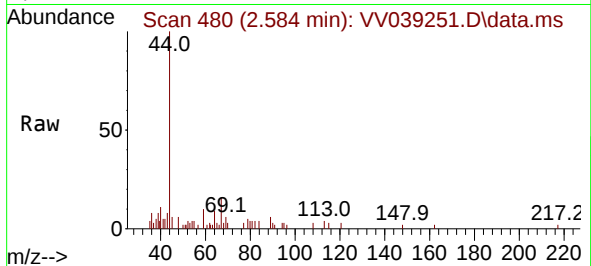




#11
Tert butyl alcohol
Concen: 0.925 ug/l
RT: 2.584 min Scan# 411
Delta R.T. 0.019 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

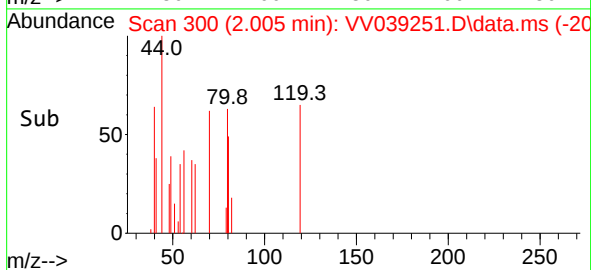
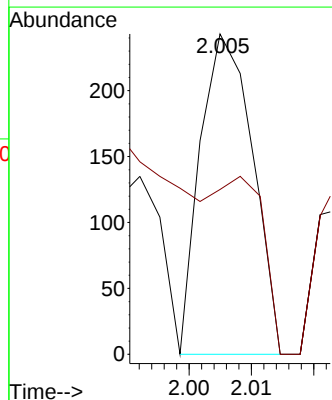
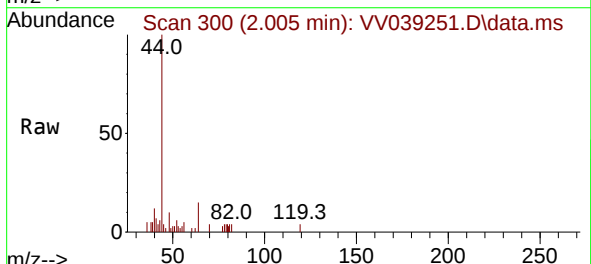
Instrument :
MSVOA_V
ClientSampleId :
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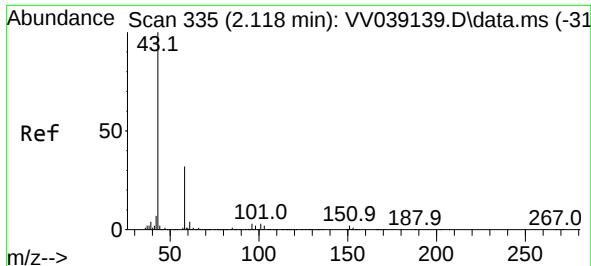
Tgt Ion: 59 Resp: 934
Ion Ratio Lower Upper
59 100
57 9.1 7.8 11.8



#13
Acrolein
Concen: 0.811 ug/l
RT: 2.005 min Scan# 300
Delta R.T. -0.003 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

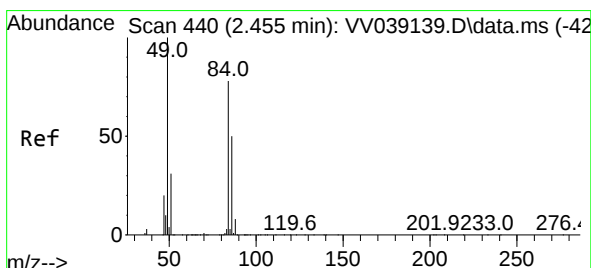
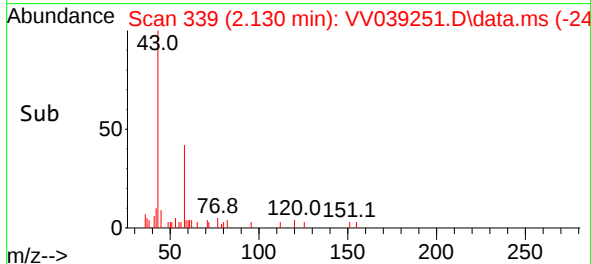
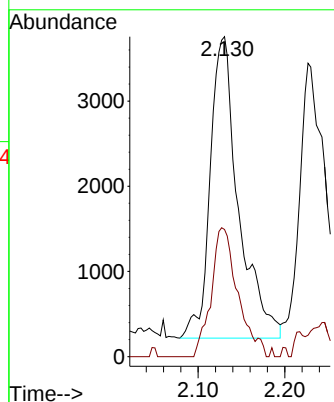
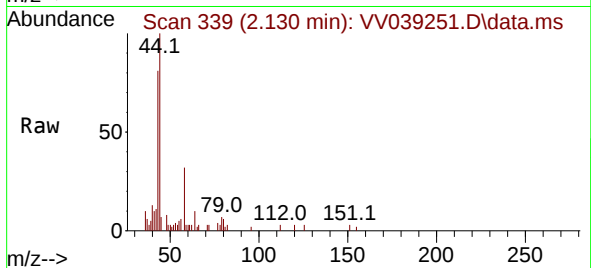




#16
Acetone
Concen: Below Cal
RT: 2.130 min Scan# 31
Delta R.T. 0.012 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

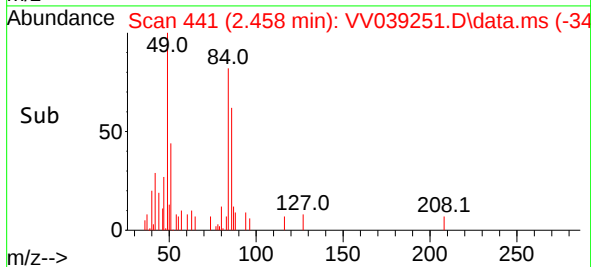
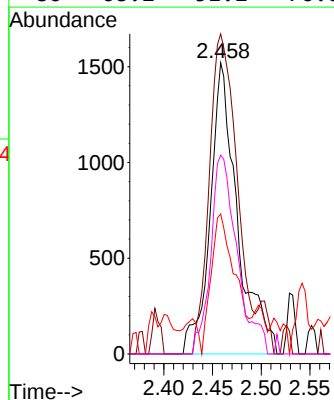
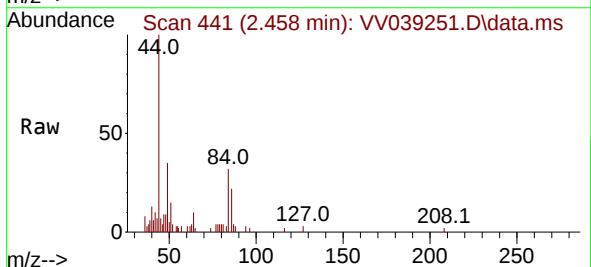
Instrument :
MSVOA_V
ClientSampleId :
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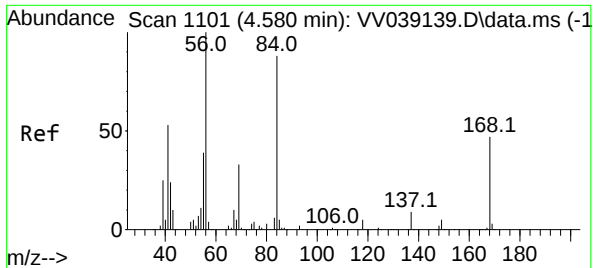
Tgt Ion: 43 Resp: 8051
Ion Ratio Lower Upper
43 100
58 42.2 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 84 Resp: 2975
Ion Ratio Lower Upper
84 100
49 109.9 102.8 154.2
51 40.1 31.9 47.9
86 68.2 51.2 76.8

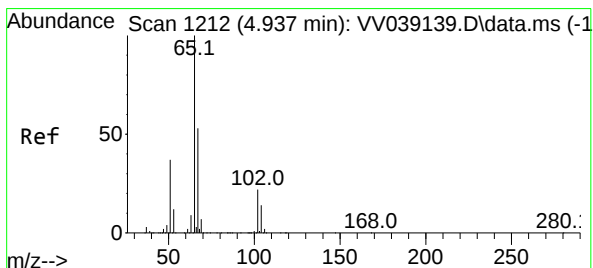
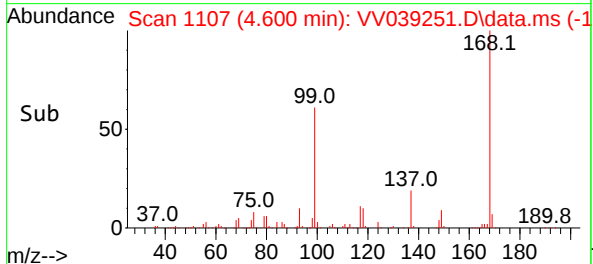
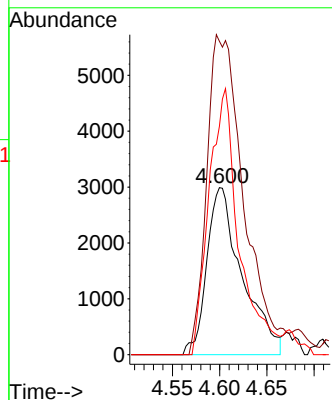
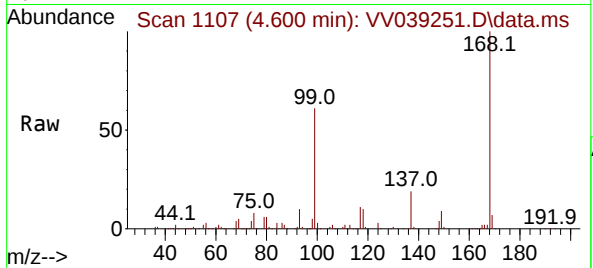




#31
Cyclohexane
Concen: 0.911 ug/l
RT: 4.600 min Scan# 1101
Delta R.T. 0.019 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

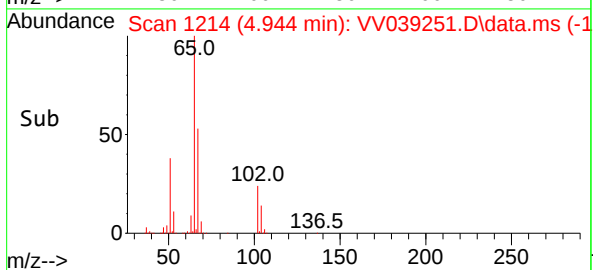
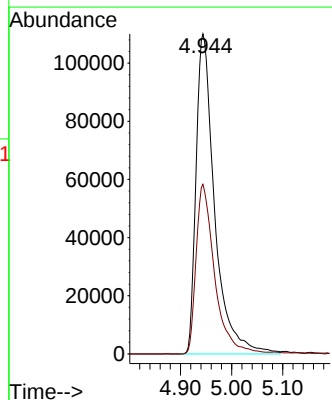
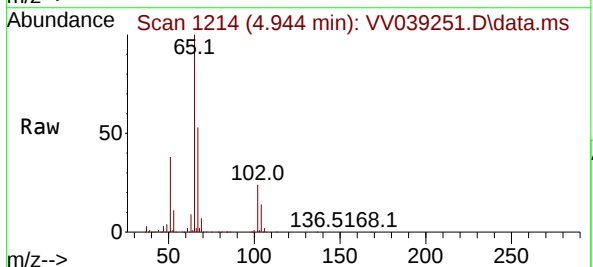
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ClientSampleId :
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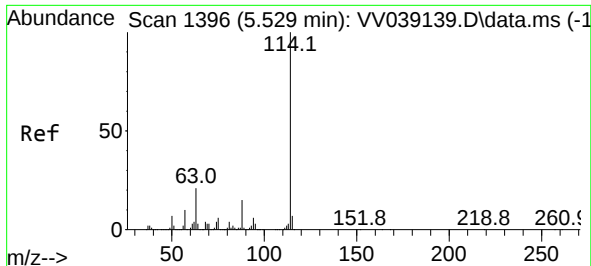
Tgt Ion: 56 Resp: 7763
Ion Ratio Lower Upper
56 100
69 187.8 26.2 39.2#
84 136.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 58.207 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 65 Resp: 278062
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 114

Delta R.T. 0.006 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

Instrument :

MSVOA_V

ClientSampleId :

TRIP-BLANK

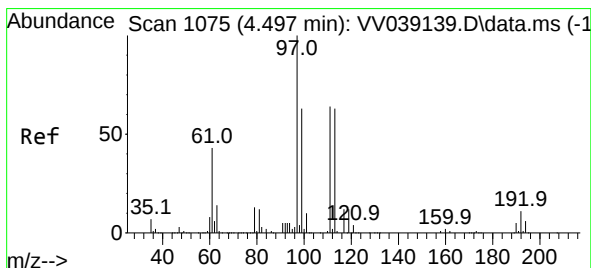
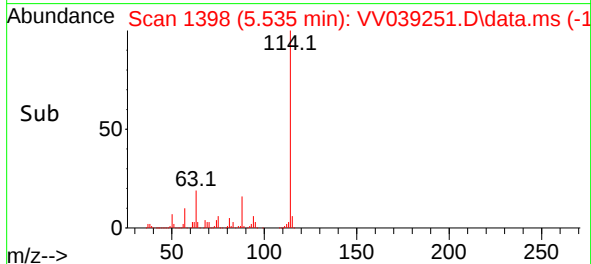
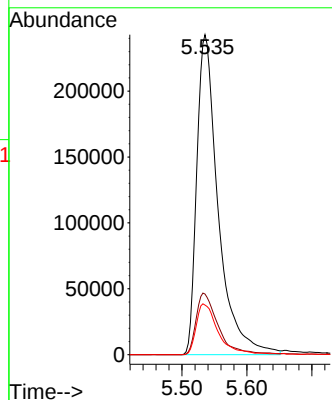
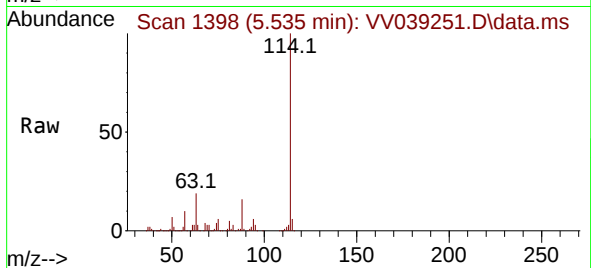
Tgt Ion:114 Resp: 558191

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.6

88 15.5 0.0 30.8



#35

Dibromofluoromethane

Concen: 58.894 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

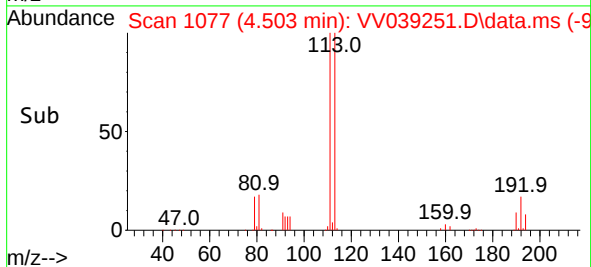
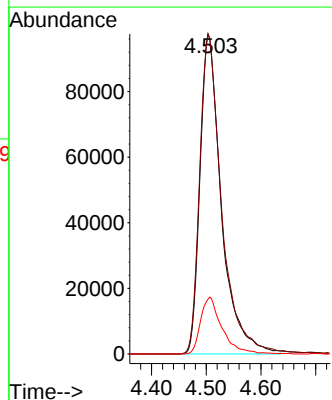
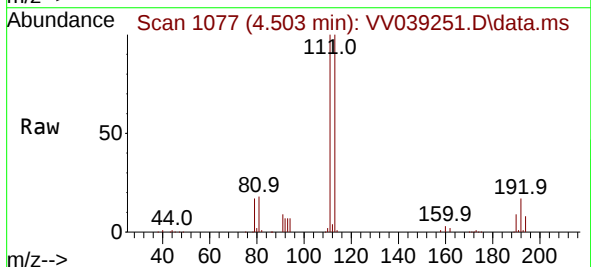
Tgt Ion:113 Resp: 264283

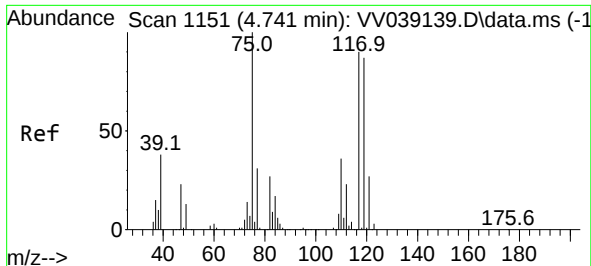
Ion Ratio Lower Upper

113 100

111 103.3 82.4 123.6

192 17.5 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.124 ug/l

RT: 4.606 min Scan# 1109

Delta R.T. -0.135 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

Instrument :

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ClientSampleId :

TRIP-BLANK

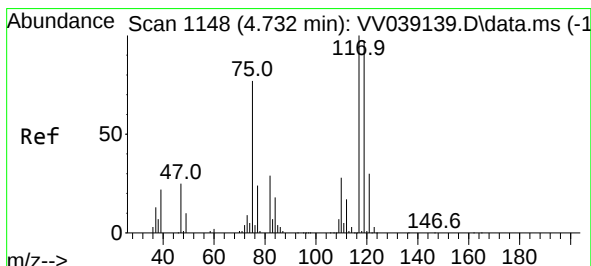
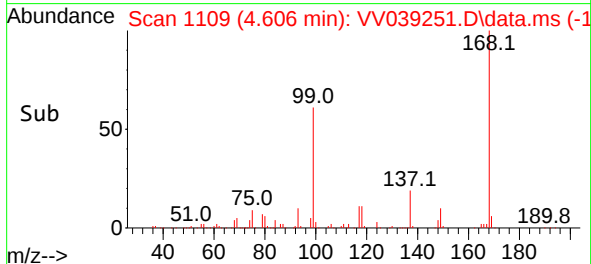
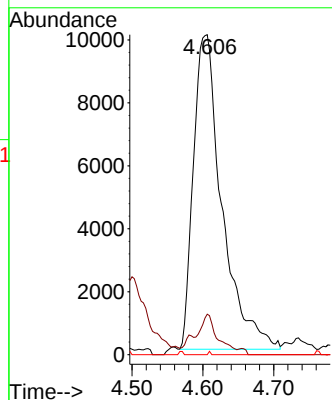
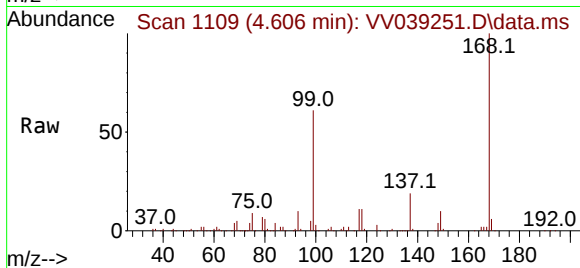
Tgt Ion: 75 Resp: 27981

Ion Ratio Lower Upper

75 100

110 6.0 18.1 54.1#

77 0.1 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.292 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.132 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

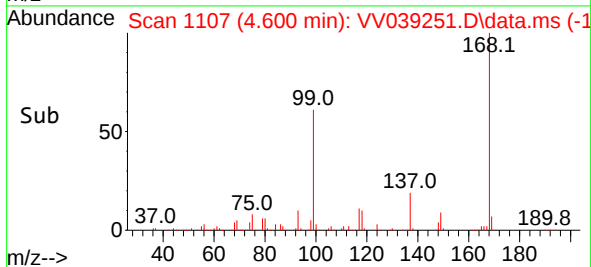
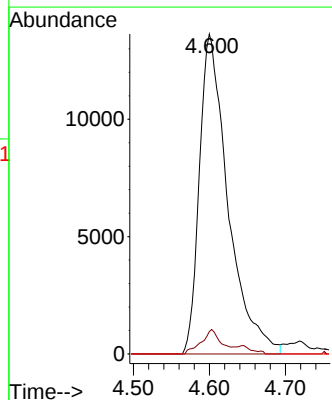
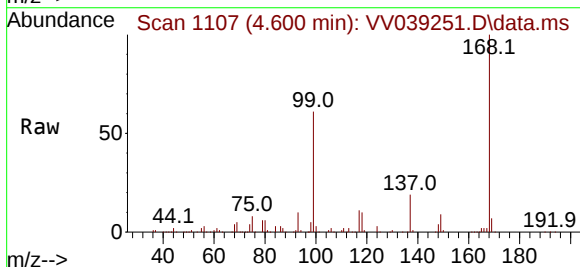
Tgt Ion: 117 Resp: 35592

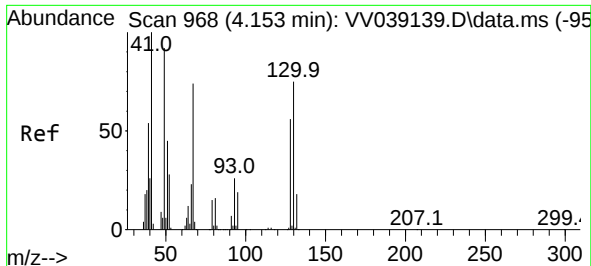
Ion Ratio Lower Upper

117 100

119 7.0 77.2 115.8#

121 0.0 24.2 36.2#

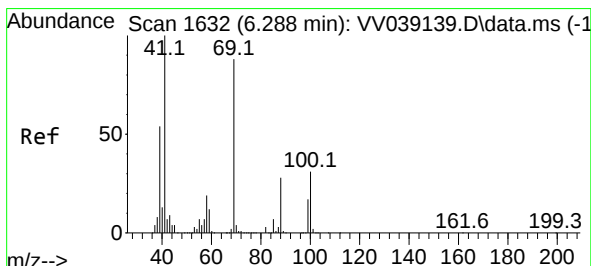
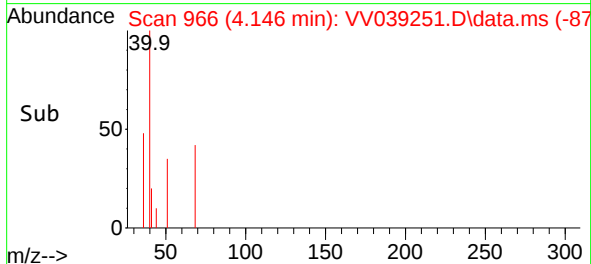
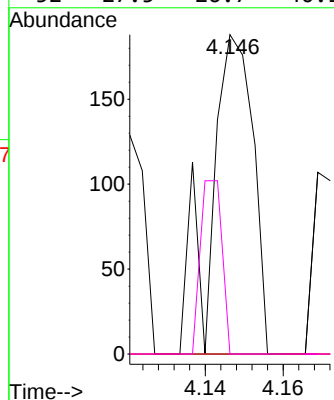
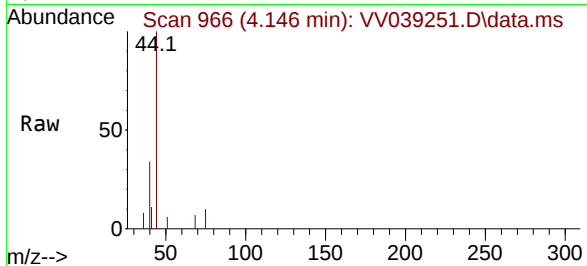




#41
Methacrylonitrile
Concen: 1.947 ug/l
RT: 4.146 min Scan# 90
Delta R.T. -0.007 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

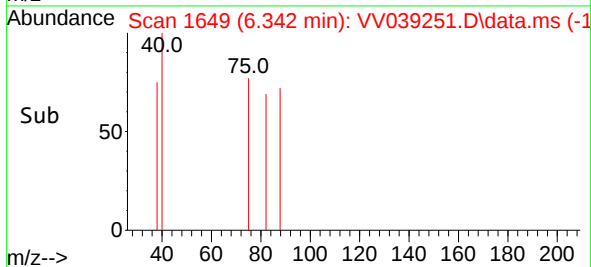
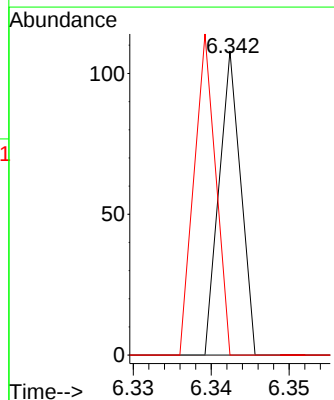
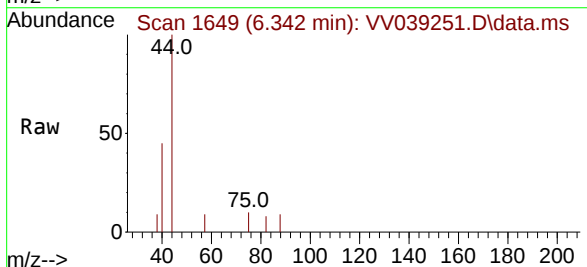
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

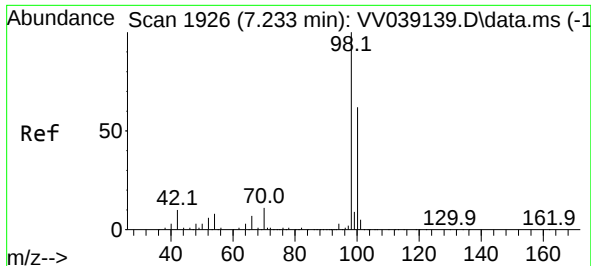
Tgt Ion:	41	Resp:	142
Ion	Ratio	Lower	Upper
41	100		
39	0.0	42.2	63.2#
67	0.0	67.9	101.9#
52	27.5	26.7	40.1



#49
1,4-Dioxane
Concen: 0.256 ug/l
RT: 6.342 min Scan# 1649
Delta R.T. 0.055 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion:	88	Resp:	21
Ion	Ratio	Lower	Upper
88	100		
43	0.0	25.1	37.7#
58	104.8	53.6	80.4#

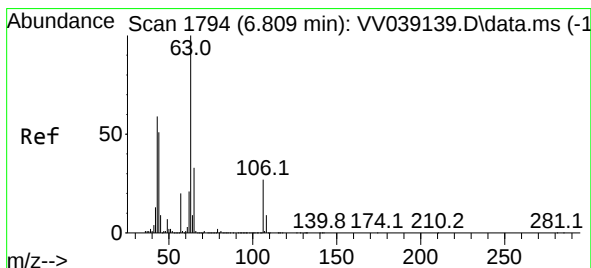
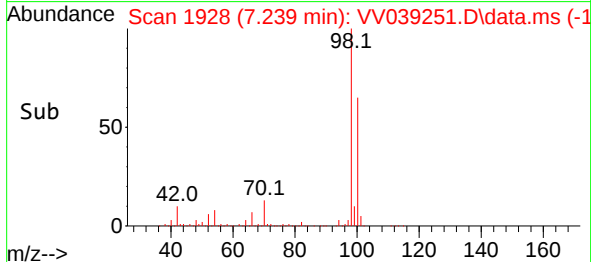
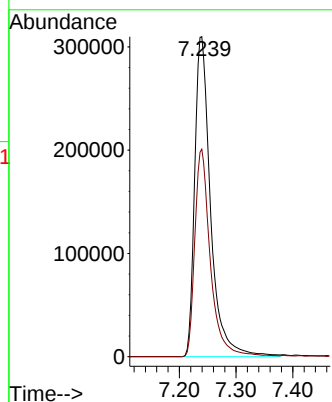
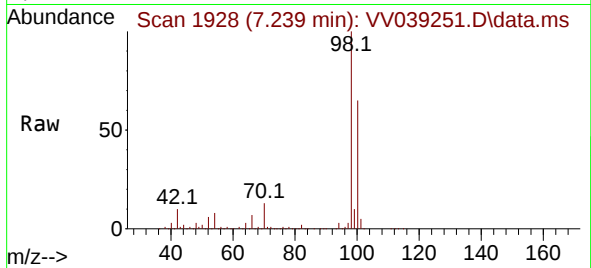




#50
Toluene-d8
Concen: 45.802 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

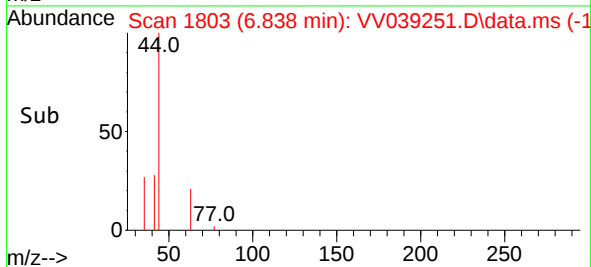
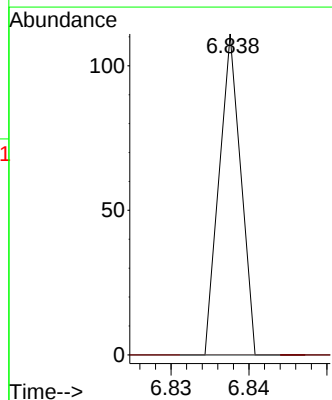
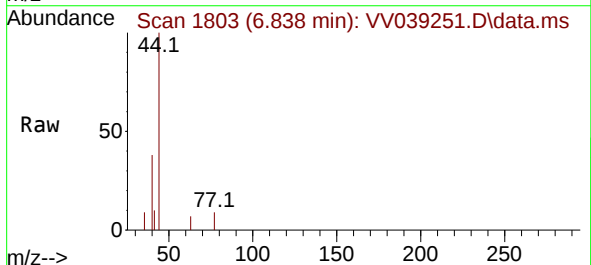
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

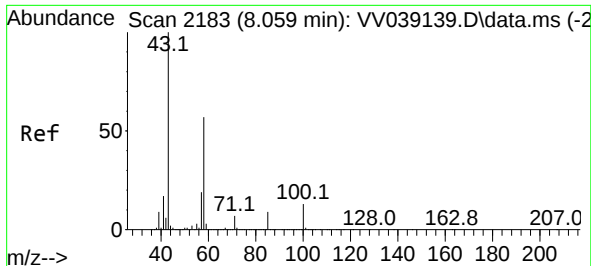
Tgt Ion: 98 Resp: 603656
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.628 ug/l
RT: 6.838 min Scan# 1803
Delta R.T. 0.029 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 63 Resp: 21
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.329 ug/l

RT: 8.082 min Scan# 2183

Delta R.T. 0.023 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

Instrument :

MSVOA_V

ClientSampleId :

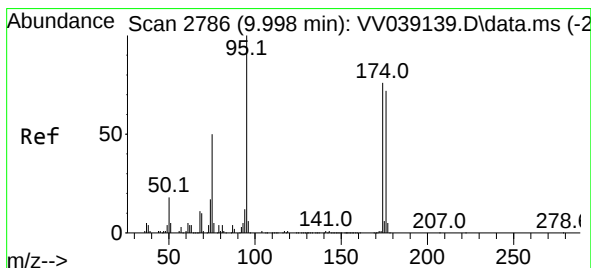
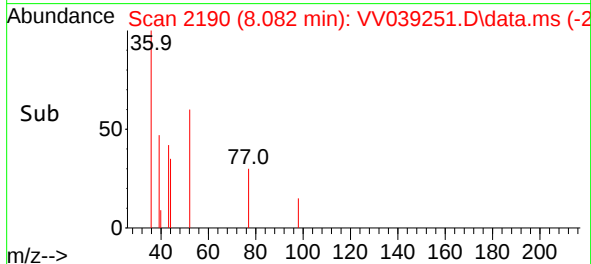
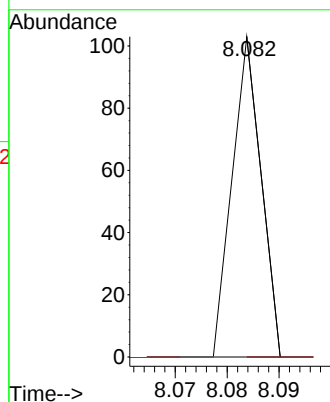
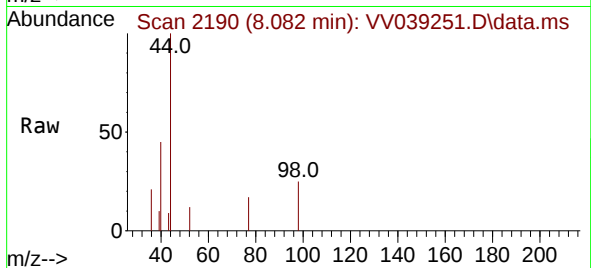
TRIP-BLANK

Tgt Ion: 43 Resp: 20

Ion Ratio Lower Upper

43 100

58 0.0 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 44.585 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

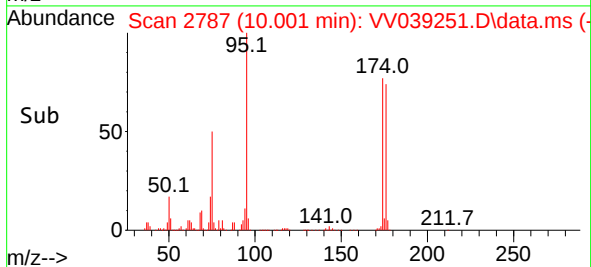
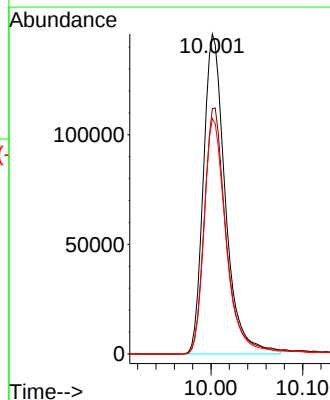
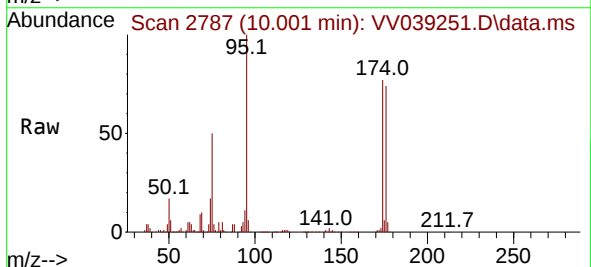
Tgt Ion: 95 Resp: 241901

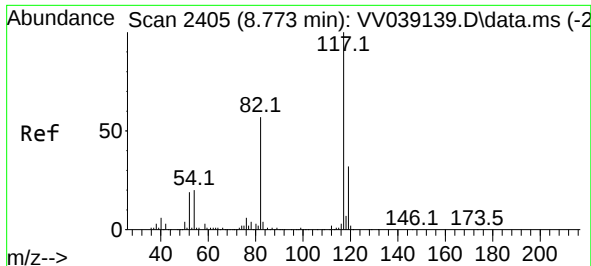
Ion Ratio Lower Upper

95 100

174 77.3 0.0 150.4

176 74.6 0.0 144.2

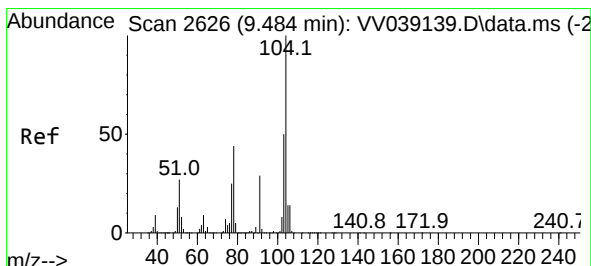
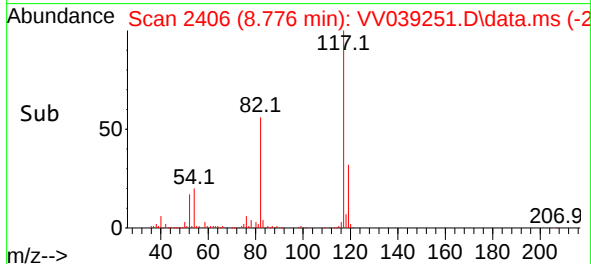
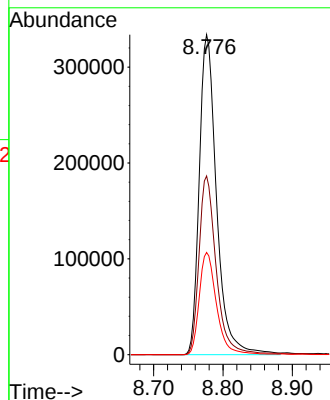
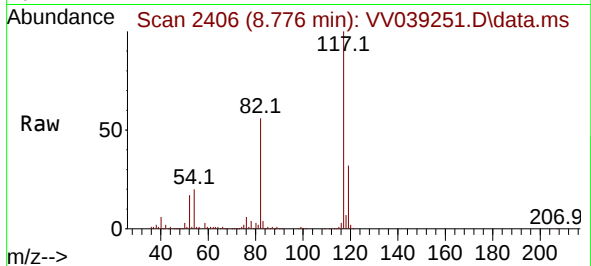




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

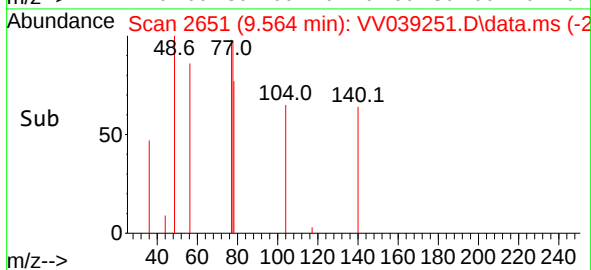
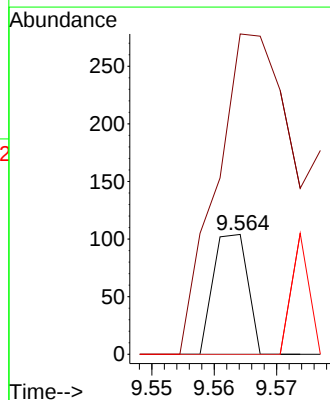
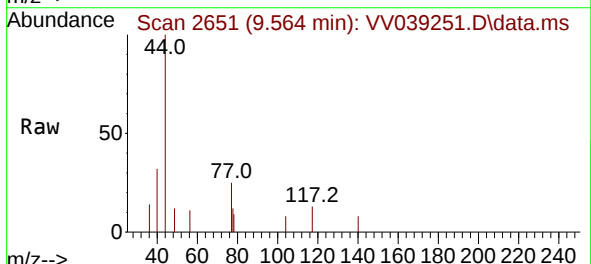
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

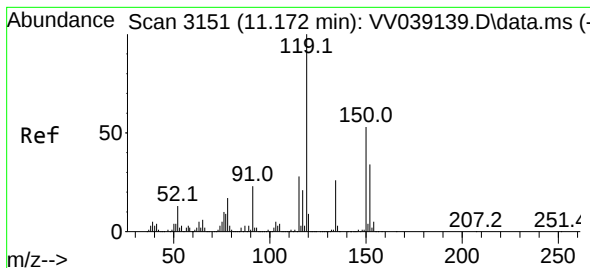
Tgt Ion:117 Resp: 580452
Ion Ratio Lower Upper
117 100
82 55.8 45.4 68.2
119 32.0 25.6 38.4



#70
Styrene
Concen: 1.564 ug/l
RT: 9.564 min Scan# 2651
Delta R.T. 0.080 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion:104 Resp: 40
Ion Ratio Lower Upper
104 100
78 805.0 39.8 59.6#
103 50.0 43.4 65.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

Instrument :

MSVOA_V

ClientSampleId :

TRIP-BLANK

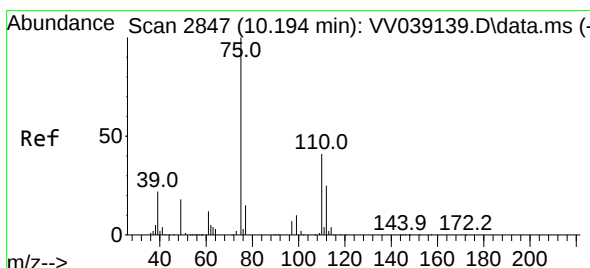
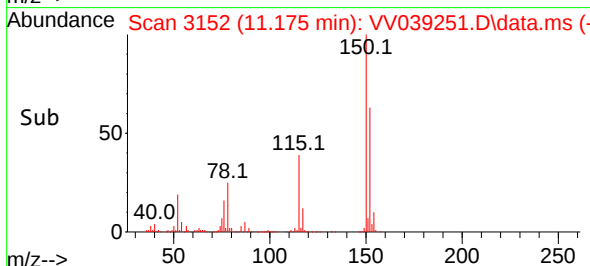
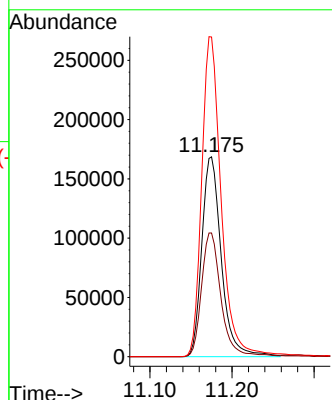
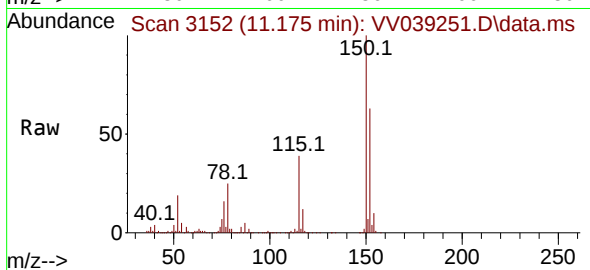
Tgt Ion:152 Resp: 279370

Ion Ratio Lower Upper

152 100

115 62.0 44.8 134.4

150 160.9 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 19.091 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039251.D

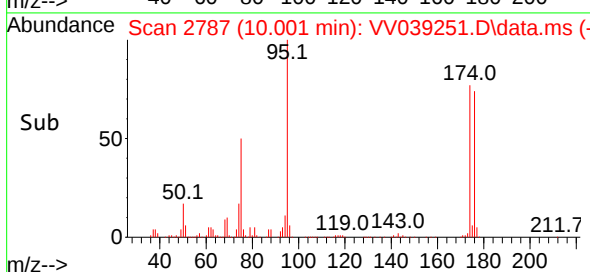
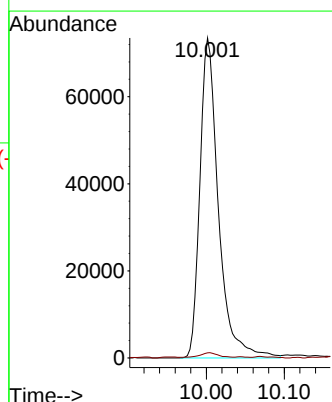
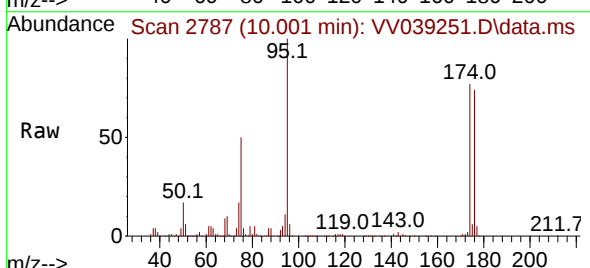
Acq: 03 Oct 2025 15:49

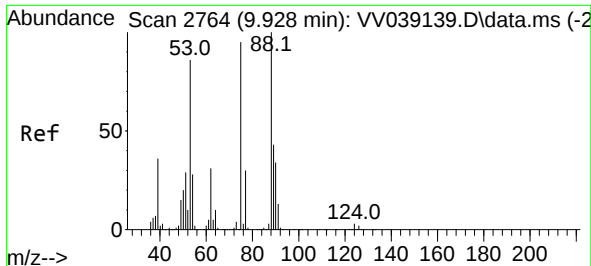
Tgt Ion: 75 Resp: 121433

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#

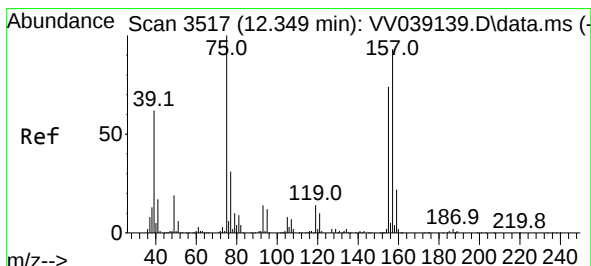
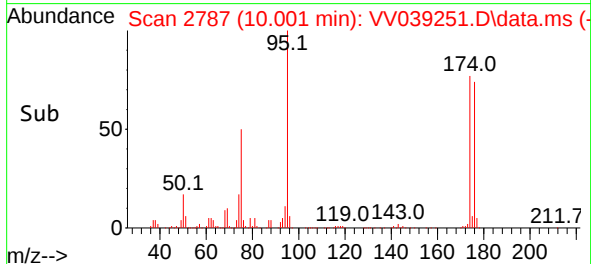
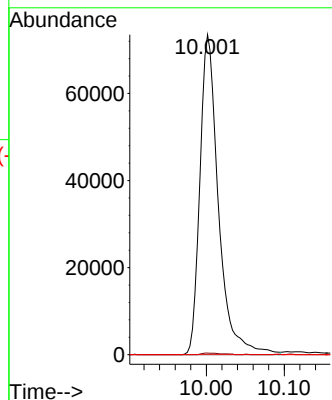
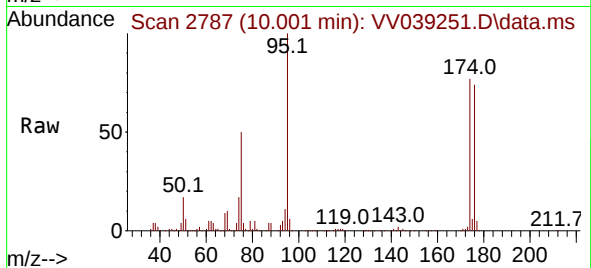




#81
trans-1,4-Dichloro-2-butene
Concen: 45.831 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Tgt Ion: 75 Resp: 121433
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: 12.336 min Scan# 3513
Delta R.T. -0.013 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 75 Resp: 23
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

