

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039248.D
 Acq On : 03 Oct 2025 14:42
 Operator : SY/MD
 Sample : Q3263-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

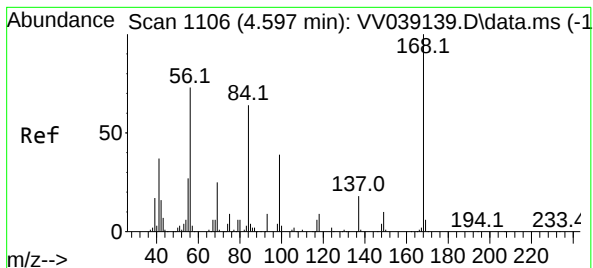
Instrument :
 MSVOA_V
 ClientSampleId :
 266380

Quant Time: Oct 04 01:11:06 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	515518	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	886439	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	887984	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	441054	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	358899	48.103	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	96.200%		
35) Dibromofluoromethane	4.503	113	342961	48.126	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	96.260%		
50) Toluene-d8	7.236	98	849141	40.571	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	81.140%#		
62) 4-Bromofluorobenzene	10.001	95	352556	40.918	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	81.840%#		
Target Compounds						
					Qvalue	
6) Chloroethane	1.574	64	318	Below Cal	#	83
11) Tert butyl alcohol	2.571	59	1525	0.967	ug/l #	81
13) Acrolein	2.027	56	188	0.687	ug/l #	1
16) Acetone	2.124	43	9340	Below Cal		98
20) Methylene Chloride	2.458	84	2532	Below Cal	#	74
26) 2,2-Dichloropropane	3.822	77	4618	0.321	ug/l #	52
30) Chloroform	4.294	83	17420	1.027	ug/l	96
31) Cyclohexane	4.600	56	10443	0.785	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	43715	4.057	ug/l #	50
38) Carbon Tetrachloride	4.600	117	52632	3.997	ug/l #	17
41) Methacrylonitrile	4.146	41	167	1.938	ug/l #	22
47) Bromodichloromethane	6.439	83	41816	3.030	ug/l	100
49) 1,4-Dioxane	6.384	88	73	0.560	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.841	63	44	9.630	ug/l #	47
59) 2-Hexanone	8.262	43	78	2.334	ug/l	94
60) Dibromochloromethane	8.172	129	80342	7.730	ug/l	98
70) Styrene	9.426	104	20	1.562	ug/l #	26
71) Bromoform	9.657	173	54768	7.845	ug/l #	98
76) 1,2,3-Trichloropropane	10.001	75	171081	17.036	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	171081	40.899	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.374	75	44	Below Cal	#	5

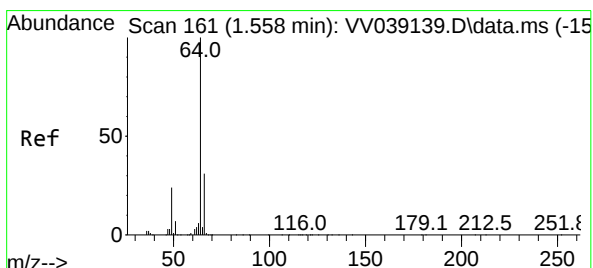
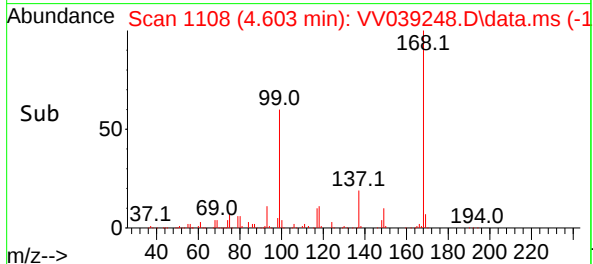
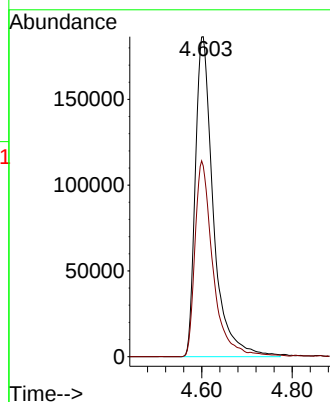
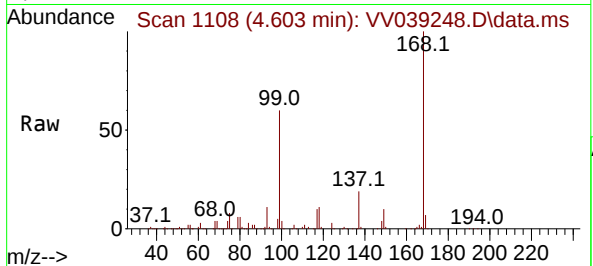
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

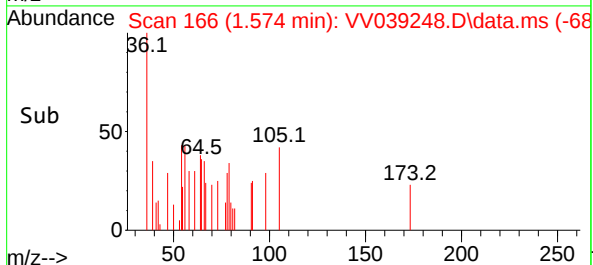
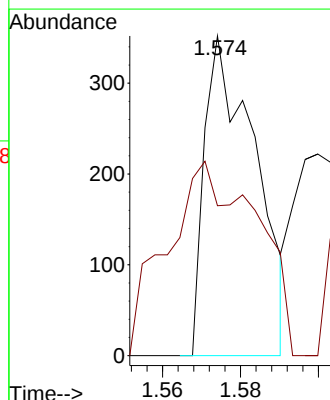
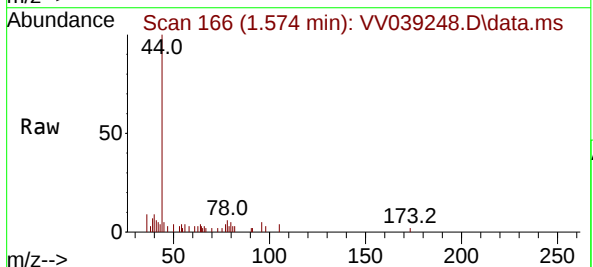
Instrument :
MSVOA_V
ClientSampleId :
266380

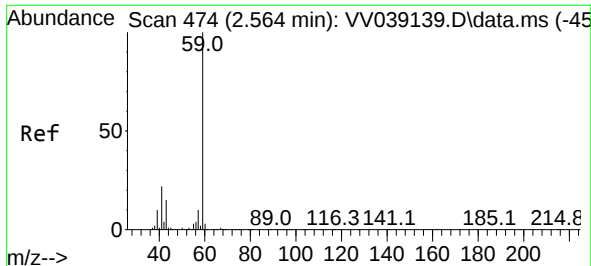
Tgt Ion:168 Resp: 515518
Ion Ratio Lower Upper
168 100
99 59.6 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.574 min Scan# 166
Delta R.T. 0.016 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion: 64 Resp: 318
Ion Ratio Lower Upper
64 100
66 21.2 24.6 36.8#

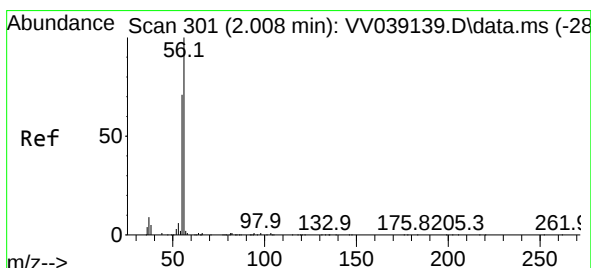
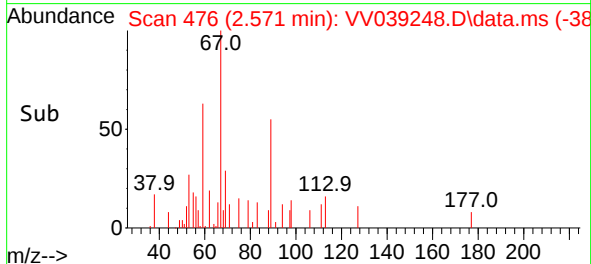
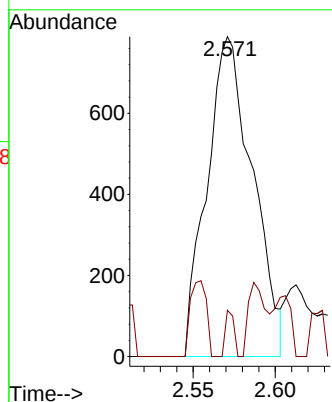
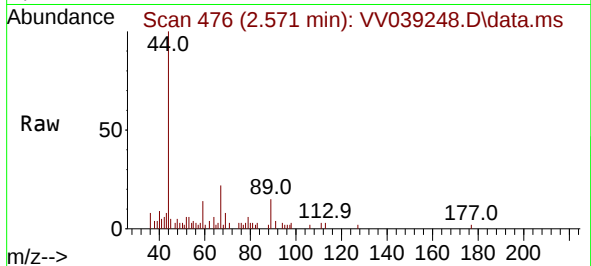




#11
Tert butyl alcohol
Concen: 0.967 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

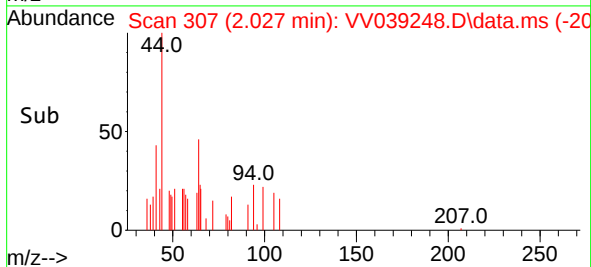
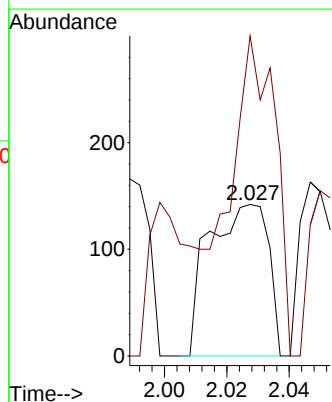
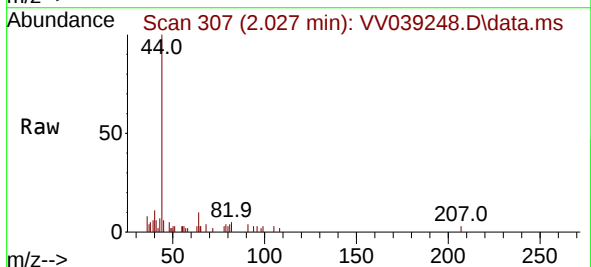
Instrument :
MSVOA_V
ClientSampleId :
266380

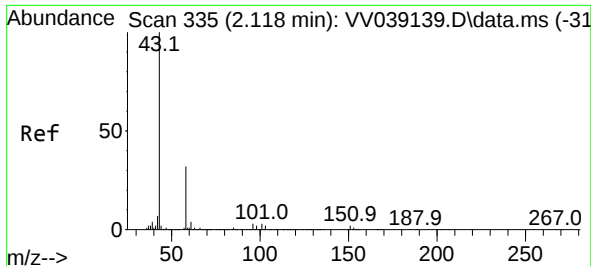
Tgt Ion: 59 Resp: 1525
Ion Ratio Lower Upper
59 100
57 2.7 7.8 11.8#



#13
Acrolein
Concen: 0.687 ug/l
RT: 2.027 min Scan# 307
Delta R.T. 0.019 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion: 56 Resp: 188
Ion Ratio Lower Upper
56 100
55 153.2 56.2 84.4#

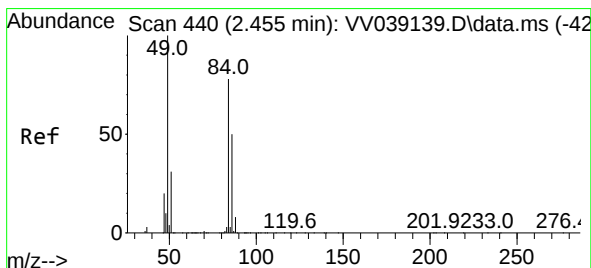
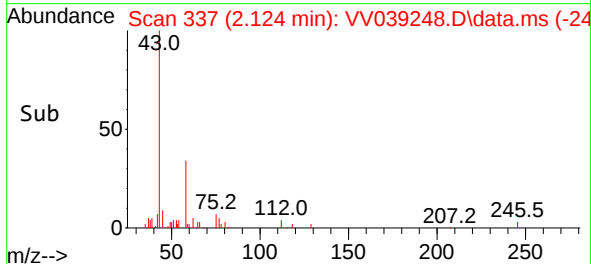
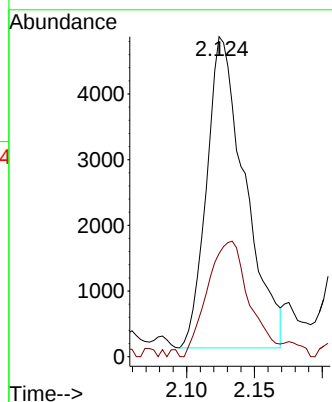
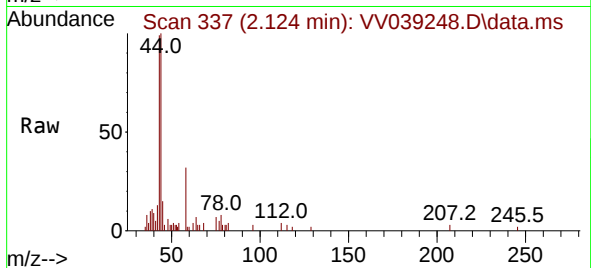




#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

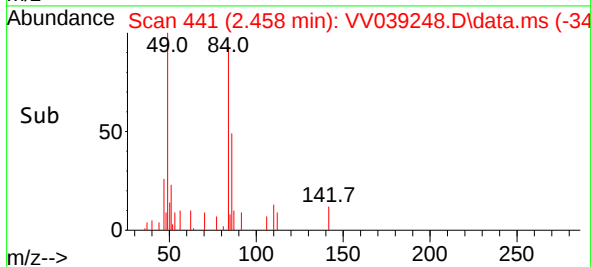
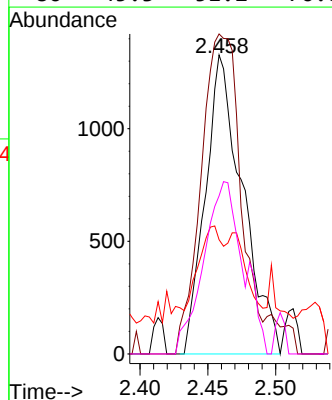
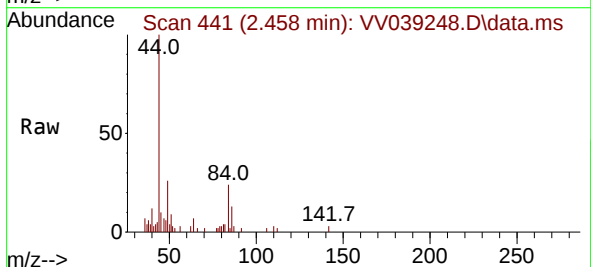
Instrument :
MSVOA_V
ClientSampleId :
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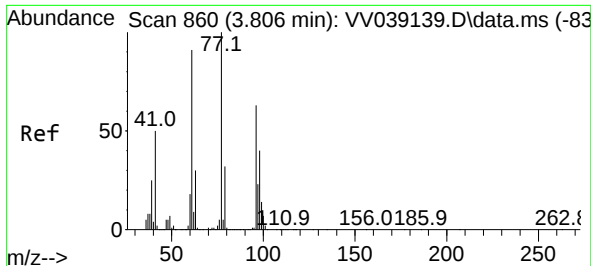
Tgt Ion: 43 Resp: 9340
Ion Ratio Lower Upper
43 100
58 33.2 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion: 84 Resp: 2532
Ion Ratio Lower Upper
84 100
49 98.0 102.8 154.2#
51 23.8 31.9 47.9#
86 45.3 51.2 76.8#





#26

2,2-Dichloropropane

Concen: 0.321 ug/l

RT: 3.822 min Scan# 80

Delta R.T. 0.016 min

Lab File: VV039248.D

Acq: 03 Oct 2025 14:42

Instrument :

MSVOA_V

ClientSampleId :

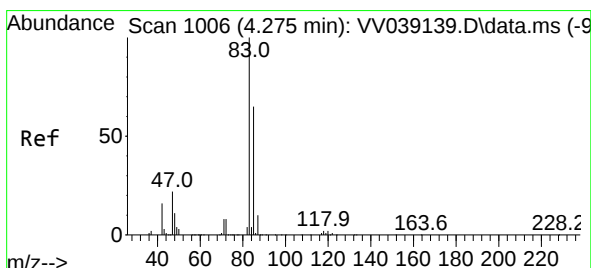
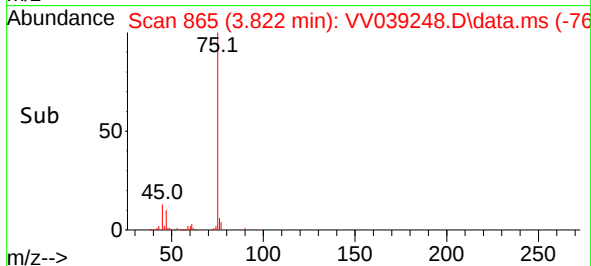
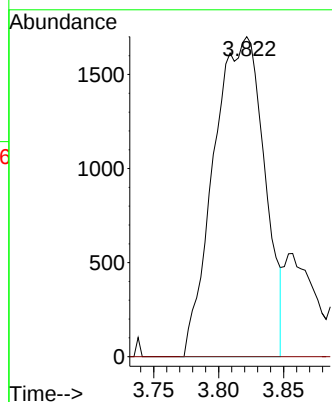
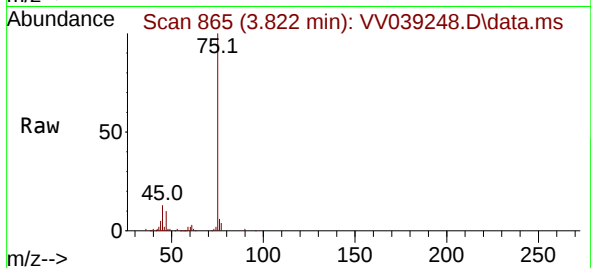
266380

Tgt Ion: 77 Resp: 4618

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.7#



#30

Chloroform

Concen: 1.027 ug/l

RT: 4.294 min Scan# 1012

Delta R.T. 0.019 min

Lab File: VV039248.D

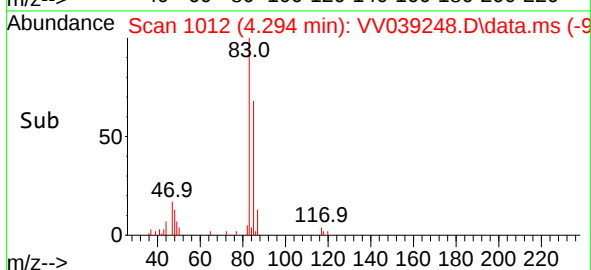
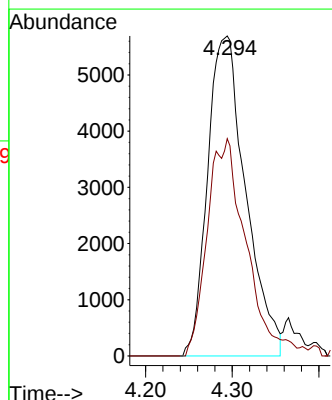
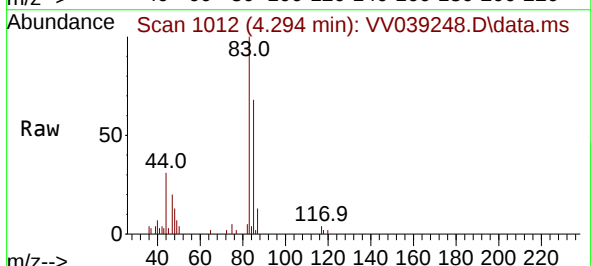
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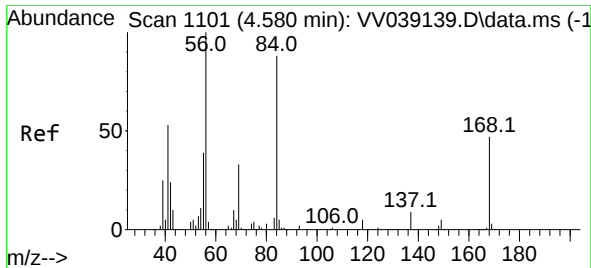
Tgt Ion: 83 Resp: 17420

Ion Ratio Lower Upper

83 100

85 67.9 52.1 78.1

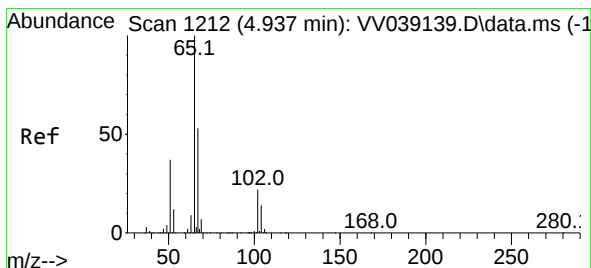
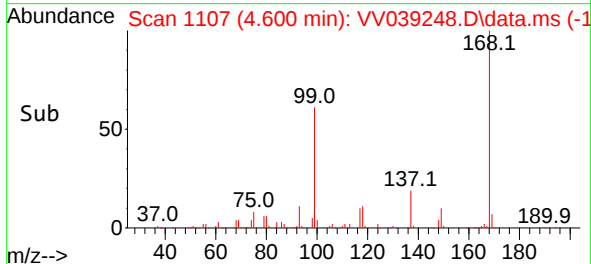
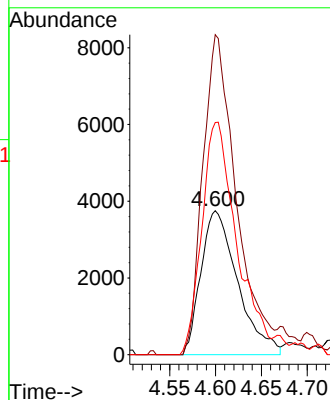
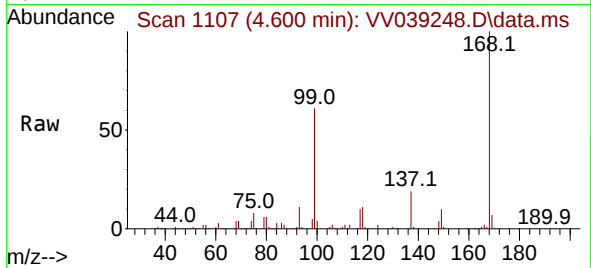




#31
Cyclohexane
Concen: 0.785 ug/l
RT: 4.600 min Scan# 1101
Delta R.T. 0.019 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

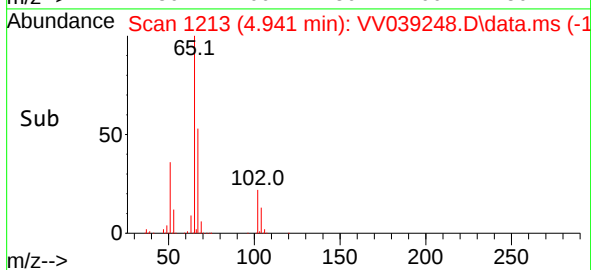
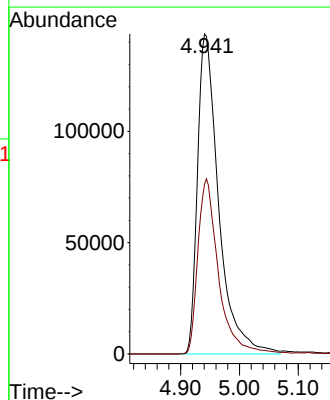
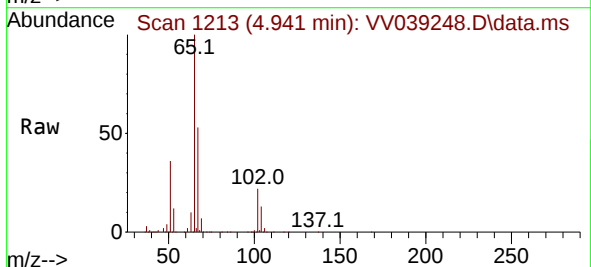
Instrument :
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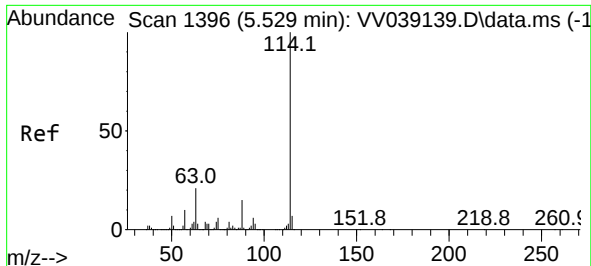
Tgt Ion: 56 Resp: 10443
Ion Ratio Lower Upper
56 100
69 222.3 26.2 39.2#
84 161.3 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.103 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion: 65 Resp: 358899
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.0

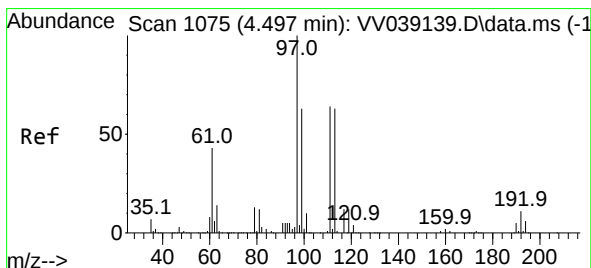
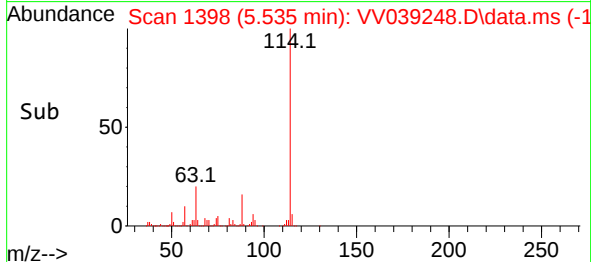
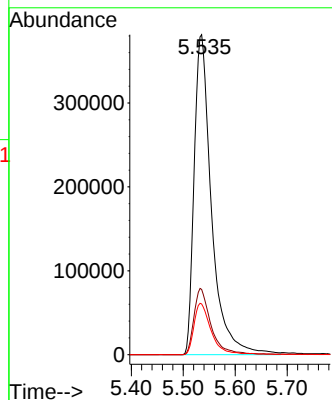
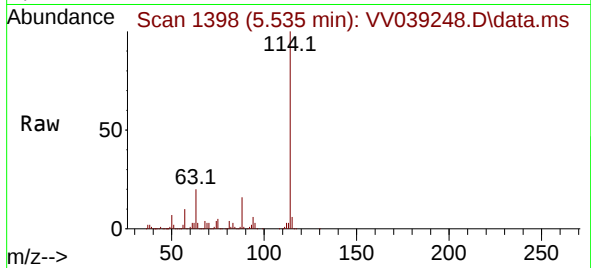




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

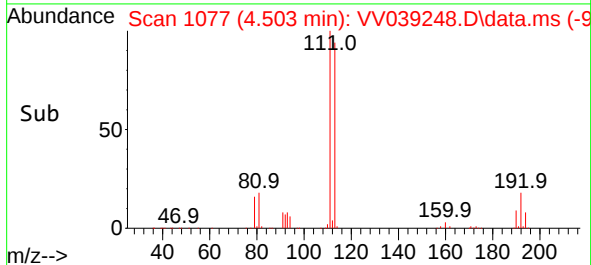
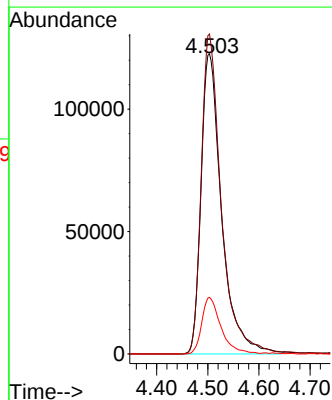
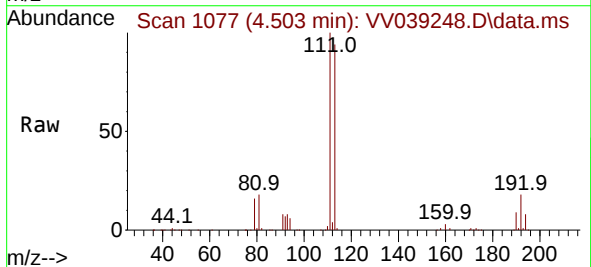
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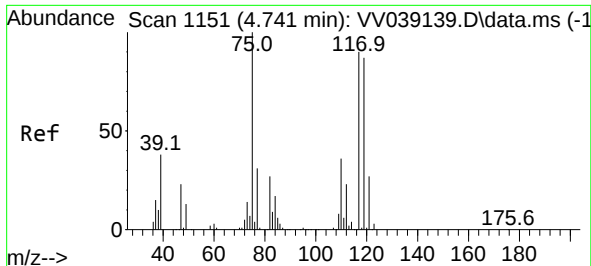
Tgt Ion:114 Resp: 886439
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 15.8 0.0 30.8



#35
Dibromofluoromethane
Concen: 48.126 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion:113 Resp: 342961
Ion Ratio Lower Upper
113 100
111 103.9 82.4 123.6
192 17.6 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.057 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. -0.145 min

Lab File: VV039248.D

Acq: 03 Oct 2025 14:42

Instrument :

MSVOA_V

ClientSampleId :

266380

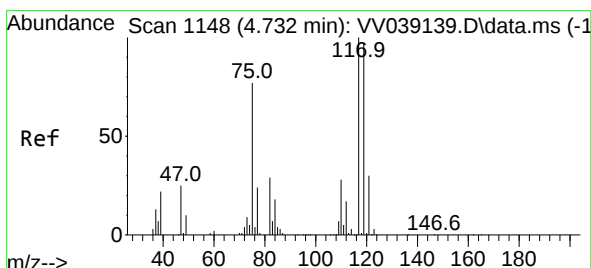
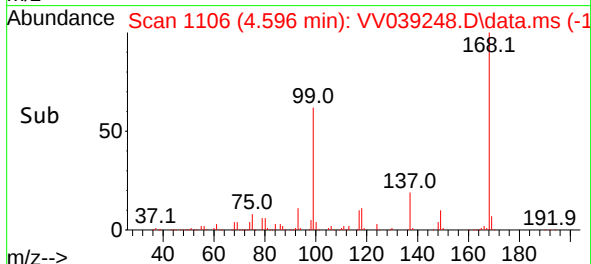
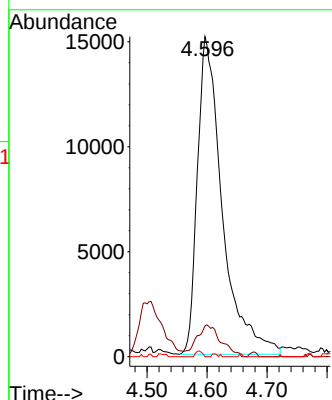
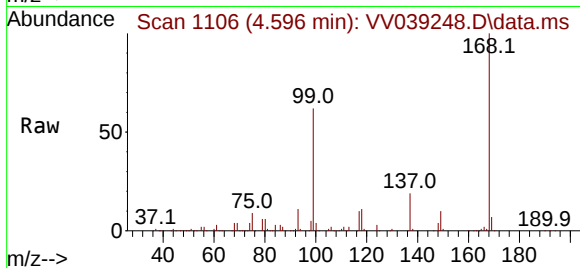
Tgt Ion: 75 Resp: 43715

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.1#

77 0.5 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 3.997 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.132 min

Lab File: VV039248.D

Acq: 03 Oct 2025 14:42

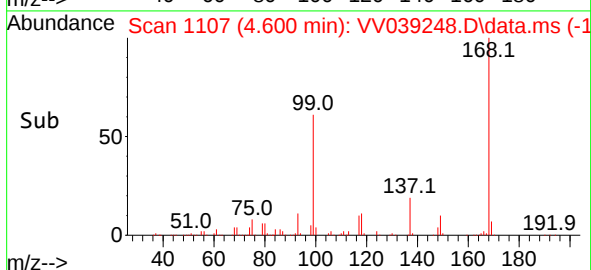
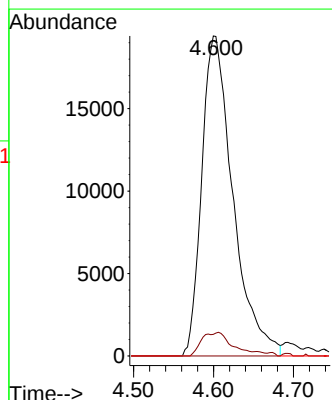
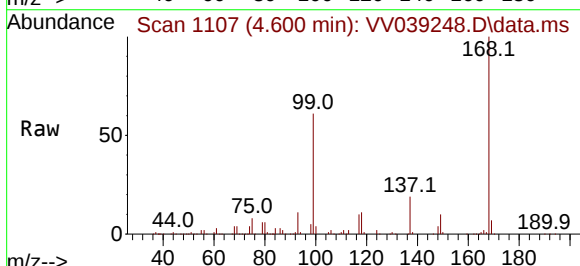
Tgt Ion: 117 Resp: 52632

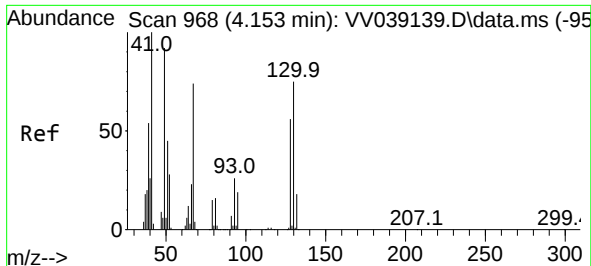
Ion Ratio Lower Upper

117 100

119 6.7 77.2 115.8#

121 0.0 24.2 36.2#

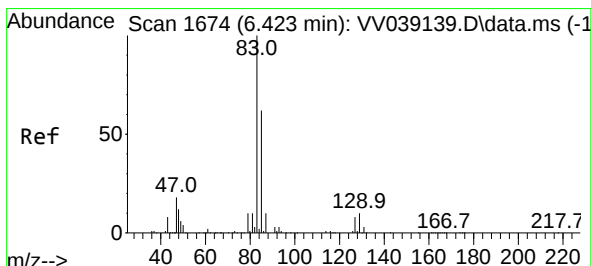
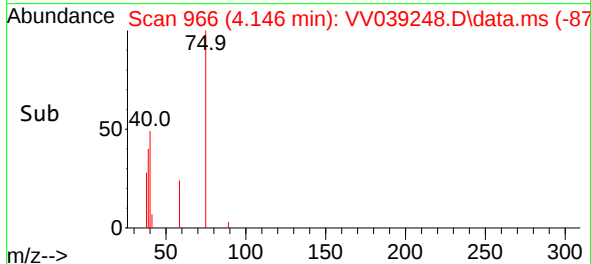
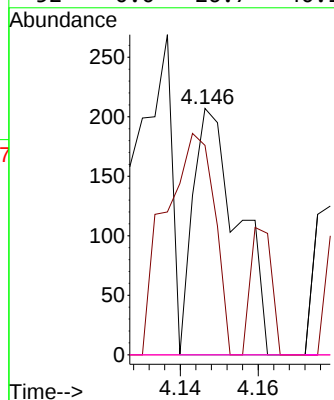
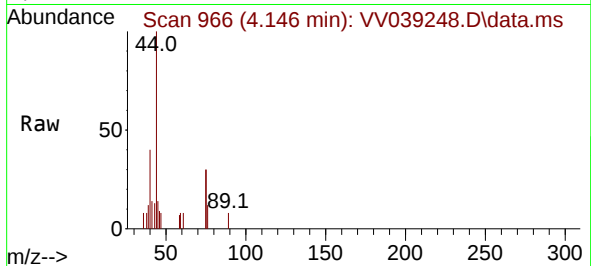




#41
Methacrylonitrile
Concen: 1.938 ug/l
RT: 4.146 min Scan# 91
Delta R.T. -0.007 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

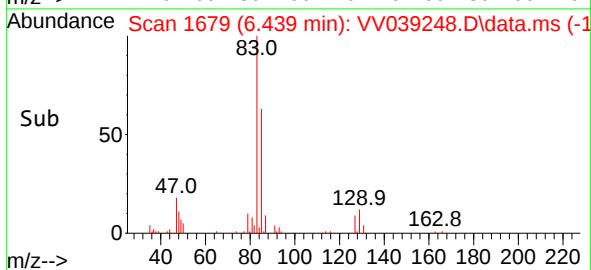
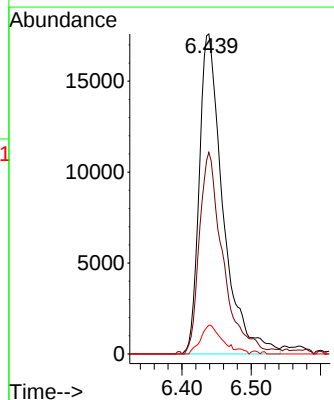
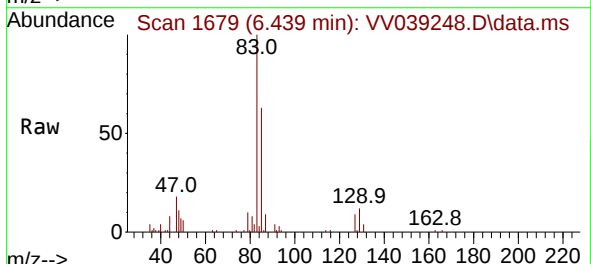
Instrument :
MSVOA_V
ClientSampleId :
266380

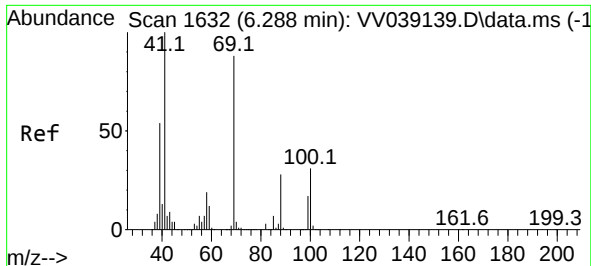
Tgt Ion:	41	Resp:	167
Ion	Ratio	Lower	Upper
41	100		
39	98.2	42.2	63.2#
67	0.0	67.9	101.9#
52	0.0	26.7	40.1#



#47
Bromodichloromethane
Concen: 3.030 ug/l
RT: 6.439 min Scan# 1679
Delta R.T. 0.016 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion:	83	Resp:	41816
Ion	Ratio	Lower	Upper
83	100		
85	62.3	49.7	74.5
127	9.0	6.6	9.8





#49

1,4-Dioxane

Concen: 0.560 ug/l

RT: 6.384 min Scan# 1

Delta R.T. 0.096 min

Lab File: VV039248.D

Acq: 03 Oct 2025 14:42

Instrument :

MSVOA_V

ClientSampleId :

266380

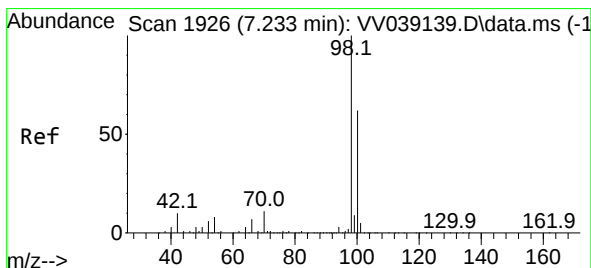
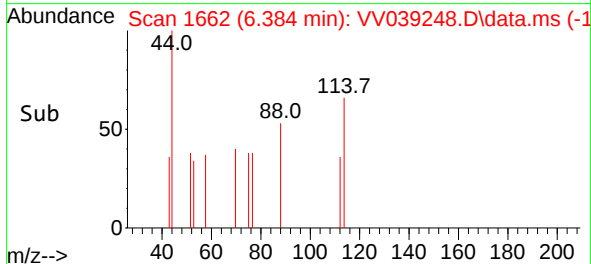
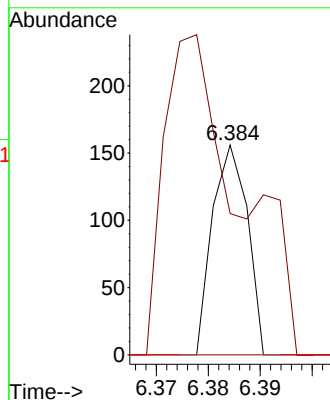
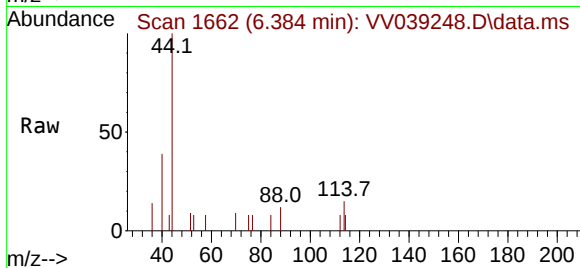
Tgt Ion: 88 Resp: 73

Ion Ratio Lower Upper

88 100

43 327.4 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 40.571 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039248.D

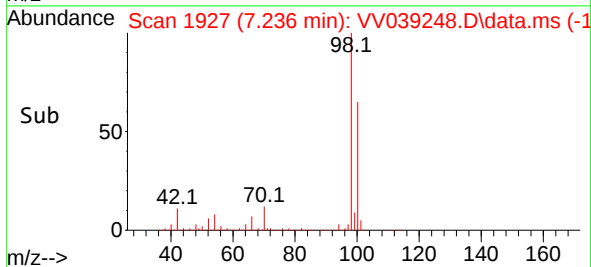
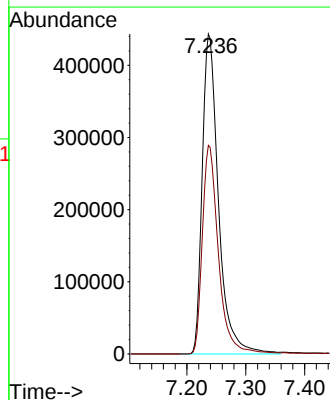
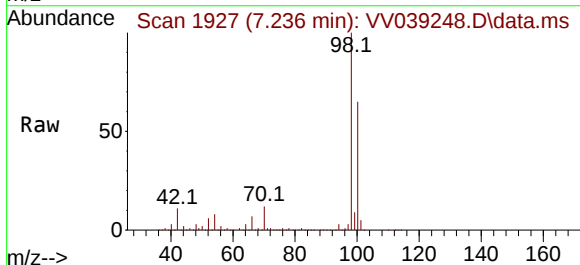
Acq: 03 Oct 2025 14:42

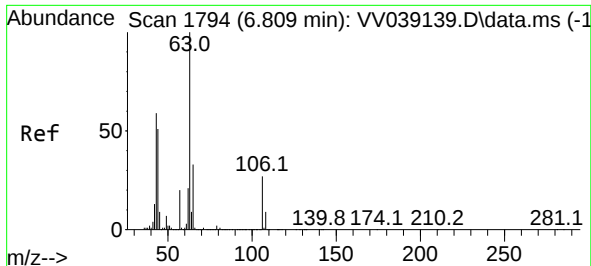
Tgt Ion: 98 Resp: 849141

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2

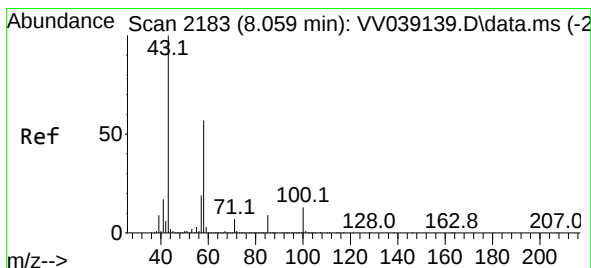
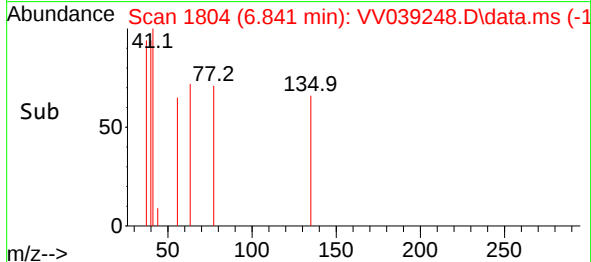
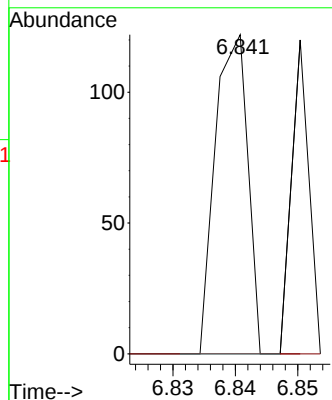
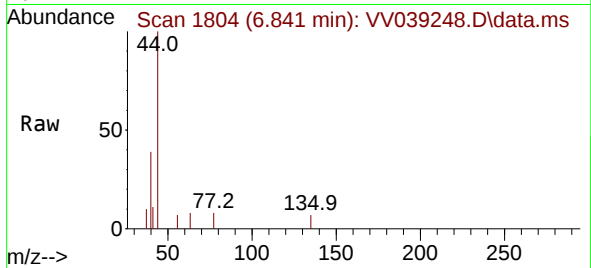




#58
2-Chloroethyl Vinyl ether
Concen: 9.630 ug/l
RT: 6.841 min Scan# 11
Delta R.T. 0.032 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

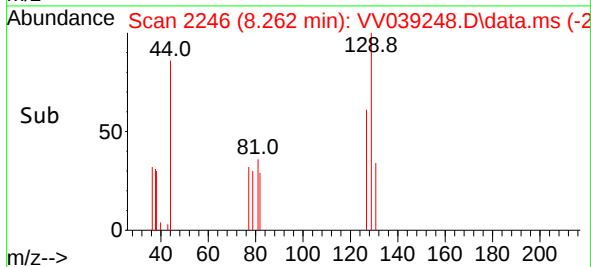
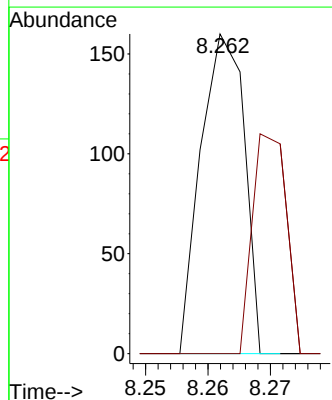
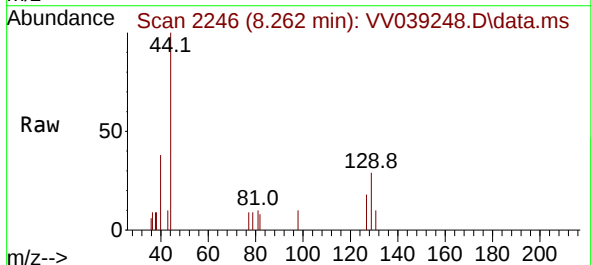
Instrument :
MSVOA_V
ClientSampleId :
266380

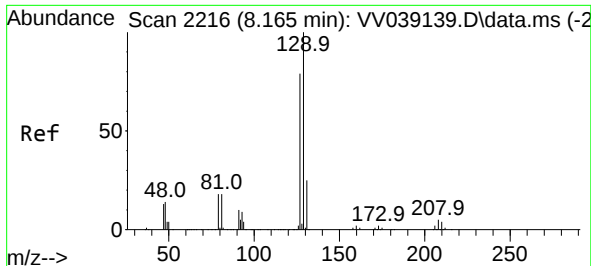
Tgt Ion: 63 Resp: 44
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.334 ug/l
RT: 8.262 min Scan# 2246
Delta R.T. 0.203 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion: 43 Resp: 78
Ion Ratio Lower Upper
43 100
58 52.6 28.3 85.0

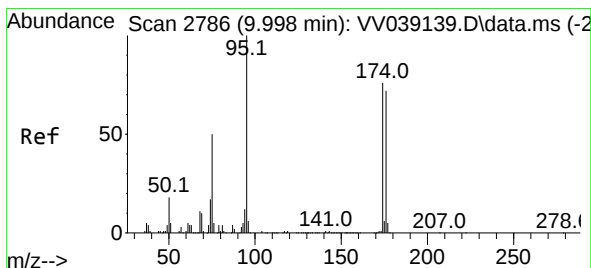
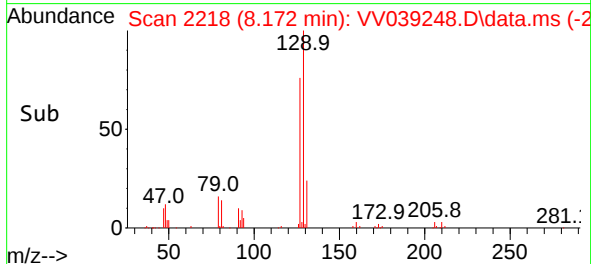
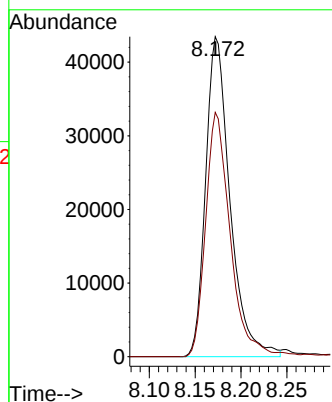
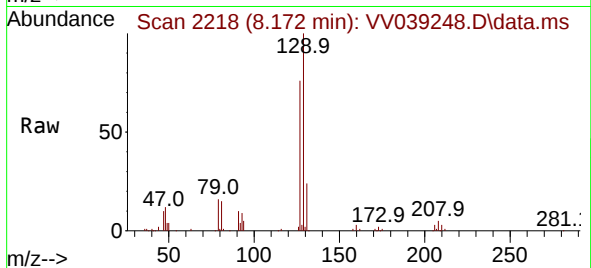




#60
Dibromochloromethane
Concen: 7.730 ug/l
RT: 8.172 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

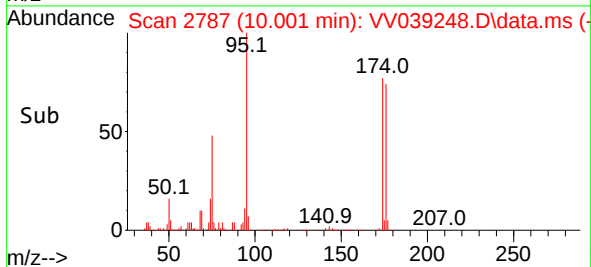
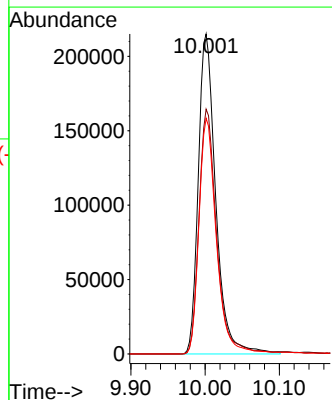
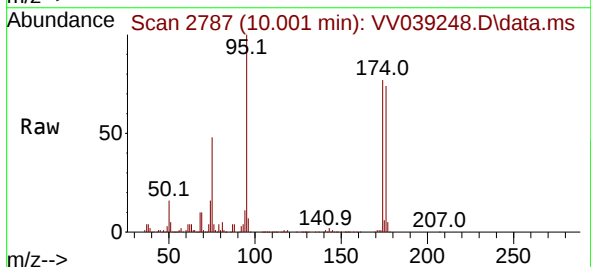
Instrument :
MSVOA_V
ClientSampleId :
266380

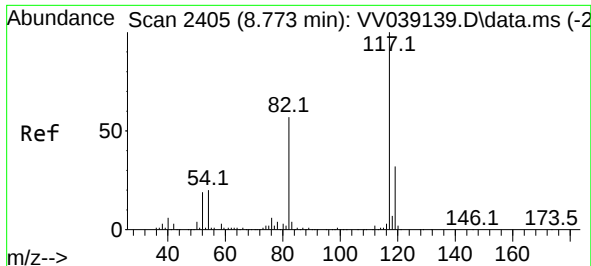
Tgt Ion:129 Resp: 80342
Ion Ratio Lower Upper
129 100
127 77.3 39.3 117.9



#62
4-Bromofluorobenzene
Concen: 40.918 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion: 95 Resp: 352556
Ion Ratio Lower Upper
95 100
174 77.1 0.0 150.4
176 73.5 0.0 144.2

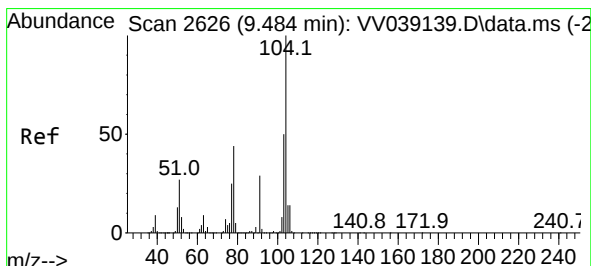
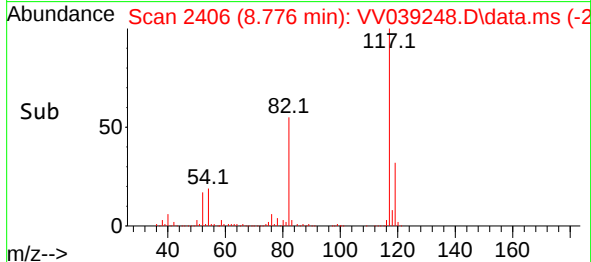
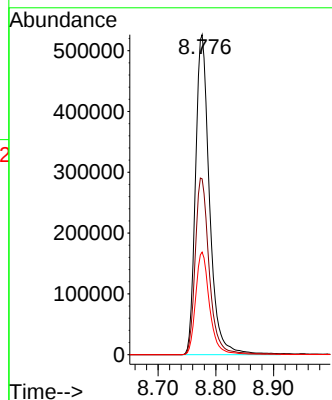
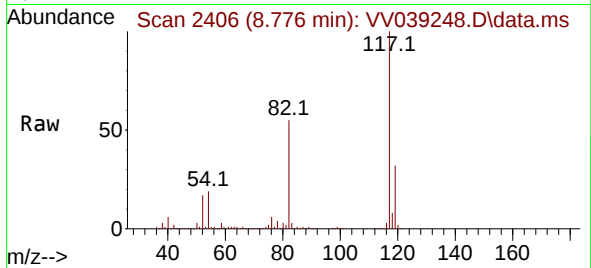




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

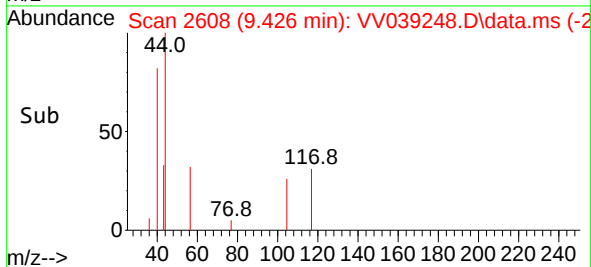
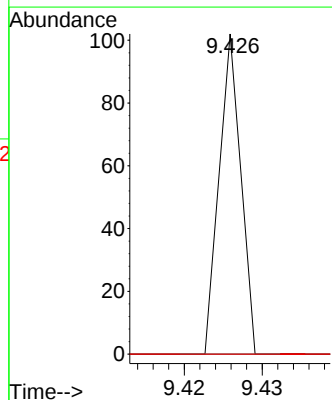
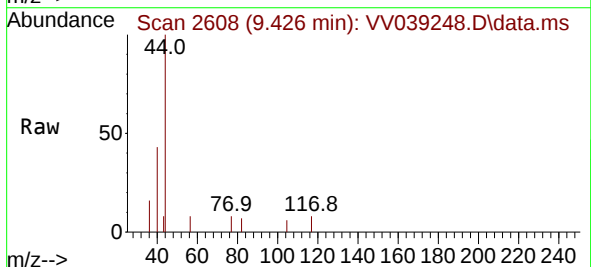
Instrument :
MSVOA_V
ClientSampleId :
266380

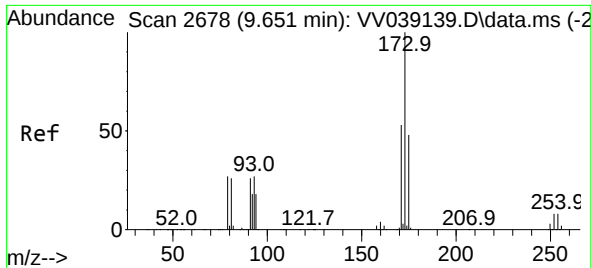
Tgt Ion:117 Resp: 887984
Ion Ratio Lower Upper
117 100
82 54.9 45.4 68.2
119 32.1 25.6 38.4



#70
Styrene
Concen: 1.562 ug/l
RT: 9.426 min Scan# 2608
Delta R.T. -0.058 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion:104 Resp: 20
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#

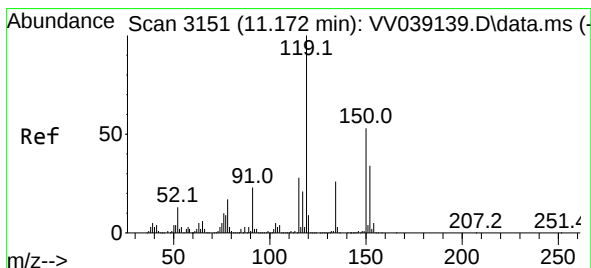
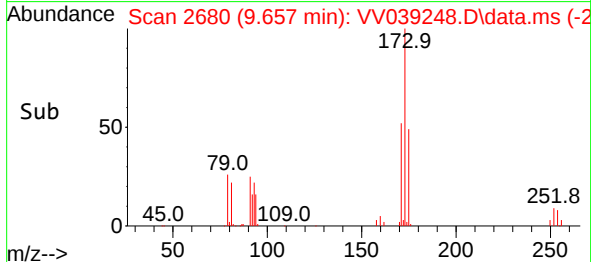
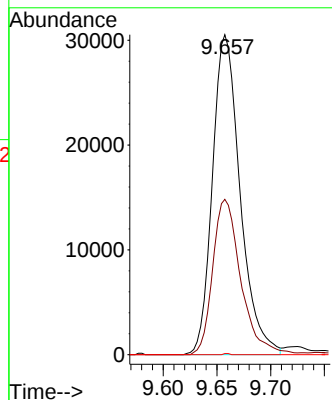
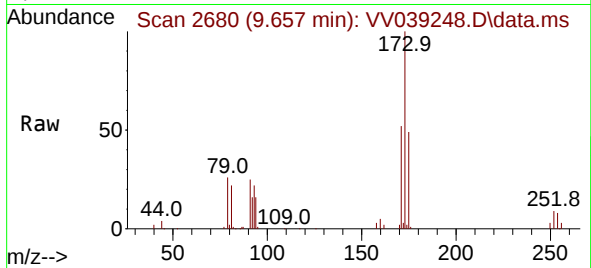




#71
Bromoform
Concen: 7.845 ug/l
RT: 9.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

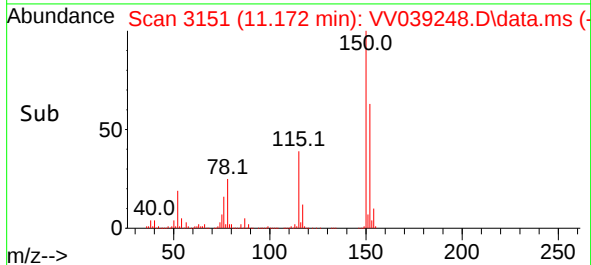
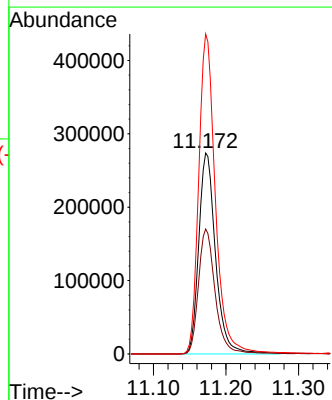
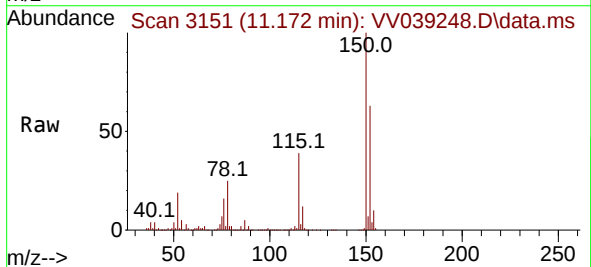
Instrument :
MSVOA_V
ClientSampleId :
266380

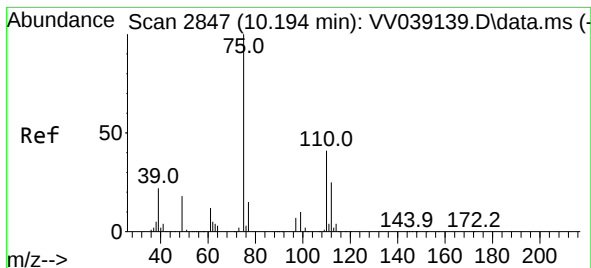
Tgt Ion:173 Resp: 54768
Ion Ratio Lower Upper
173 100
175 49.4 23.9 71.7
254 0.1 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Tgt Ion:152 Resp: 441054
Ion Ratio Lower Upper
152 100
115 62.1 44.8 134.4
150 158.5 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 17.036 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039248.D

Acq: 03 Oct 2025 14:42

Instrument :

MSVOA_V

ClientSampleId :

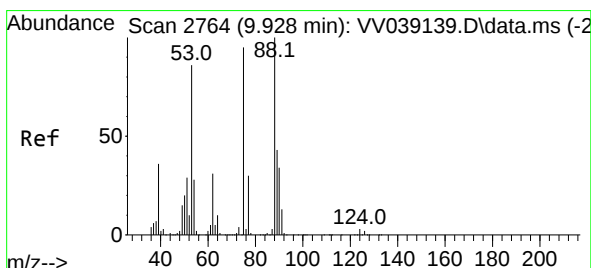
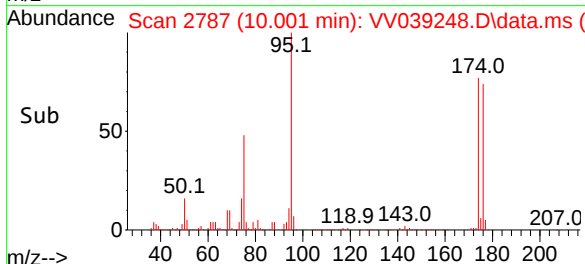
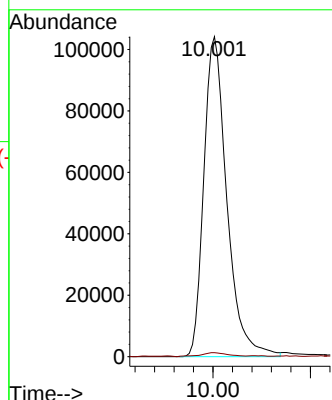
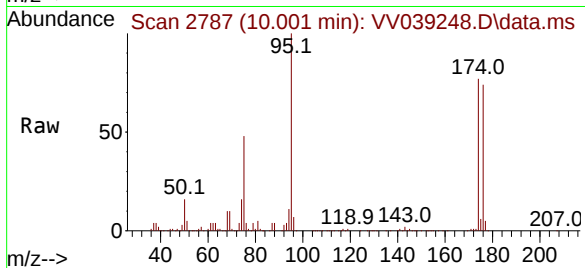
266380

Tgt Ion: 75 Resp: 171081

Ion Ratio Lower Upper

75 100

77 1.5 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 40.899 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039248.D

Acq: 03 Oct 2025 14:42

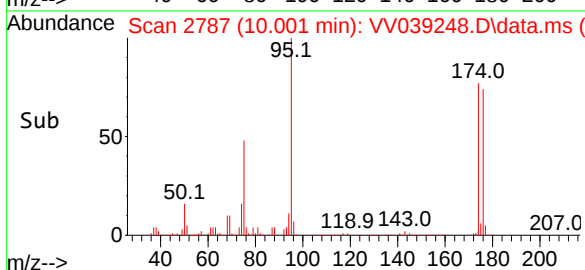
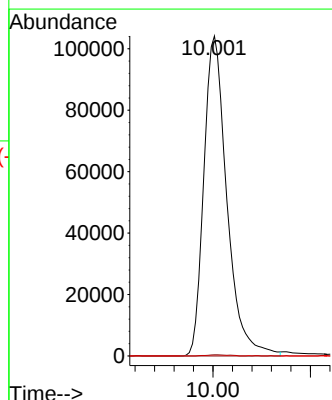
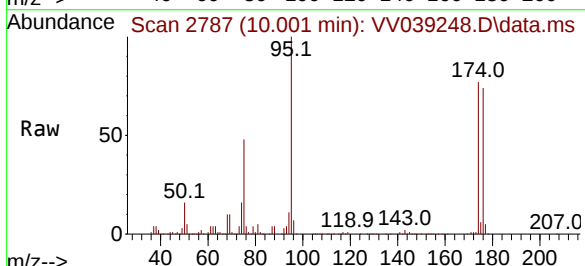
Tgt Ion: 75 Resp: 171081

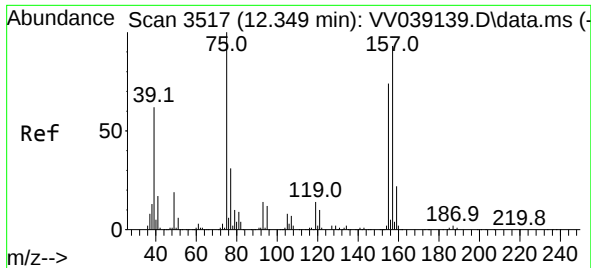
Ion Ratio Lower Upper

75 100

53 0.4 72.5 108.7#

89 0.0 37.2 55.8#





#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.374 min Scan# 31
Delta R.T. 0.025 min
Lab File: VV039248.D
Acq: 03 Oct 2025 14:42

Instrument :
MSVOA_V
ClientSampleId :
266380

Tgt Ion: 75 Resp: 44
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

