

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100725\
 Data File : VV039288.D
 Acq On : 07 Oct 2025 11:55
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

Quant Time: Oct 08 05:05:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

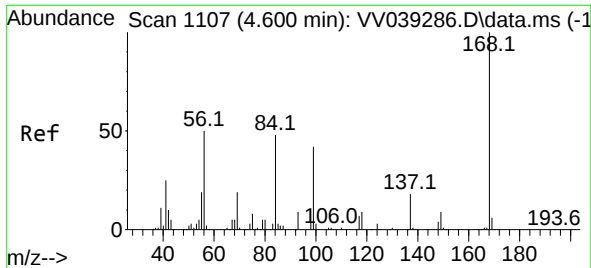
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	467672	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	918767	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	871613	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	375168	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	406131	61.115	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 122.220%#	
35) Dibromofluoromethane	4.500	113	356882	49.298	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 98.600%	
50) Toluene-d8	7.236	98	1107592	44.974	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 89.940%	
62) 4-Bromofluorobenzene	10.001	95	347711	39.644	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 79.280%#	

Target Compounds				Qvalue		
17) Carbon Disulfide	2.256	76	23359	1.311	ug/l	99
78) n-propylbenzene	10.291	91	7848	0.284	ug/l	94
79) 2-Chlorotoluene	10.361	91	4842	0.284	ug/l	77
80) 1,3,5-Trimethylbenzene	10.474	105	4479	0.234	ug/l	99
82) 4-Chlorotoluene	10.493	91	5487	0.280	ug/l	77
83) tert-Butylbenzene	10.795	119	4371	0.230	ug/l	73
84) 1,2,4-Trimethylbenzene	10.857	105	4090	0.217	ug/l	99
85) sec-Butylbenzene	11.017	105	6728	0.280	ug/l	99
86) p-Isopropyltoluene	11.175	119	6555	0.318	ug/l #	66
87) 1,3-Dichlorobenzene	11.123	146	4749	0.380	ug/l	96
89) n-Butylbenzene	11.593	91	6974	0.363	ug/l	92
90) Hexachloroethane	11.828	117	1735	0.340	ug/l	68
91) 1,2-Dichlorobenzene	11.590	146	3503	0.295	ug/l	90
93) 1,2,4-Trichlorobenzene	13.201	180	4836	0.730	ug/l	94
94) Hexachlorobutadiene	13.371	225	2888	0.861	ug/l	89
95) Naphthalene	13.451	128	6701	0.309	ug/l #	91
96) 1,2,3-Trichlorobenzene	13.680	180	4056	0.589	ug/l	97

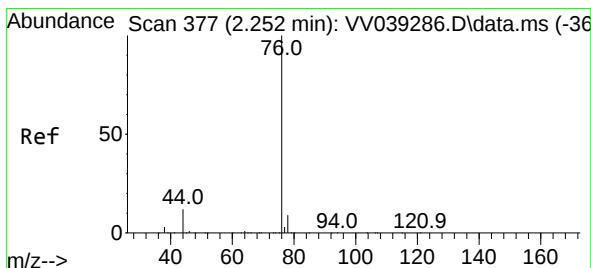
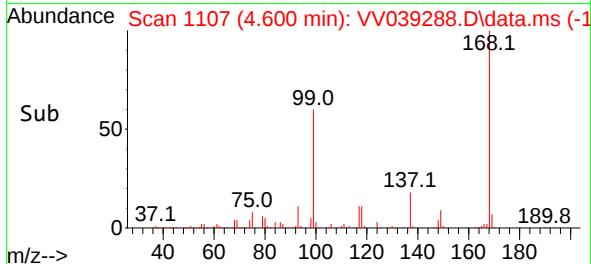
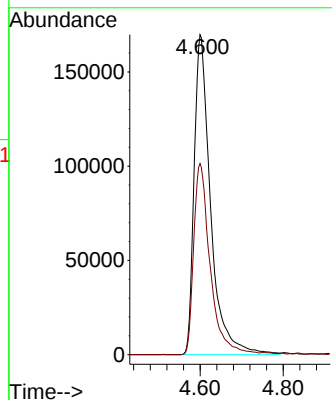
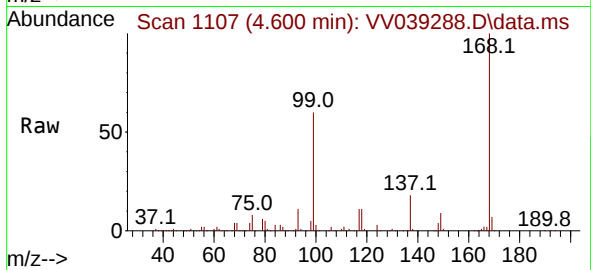
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

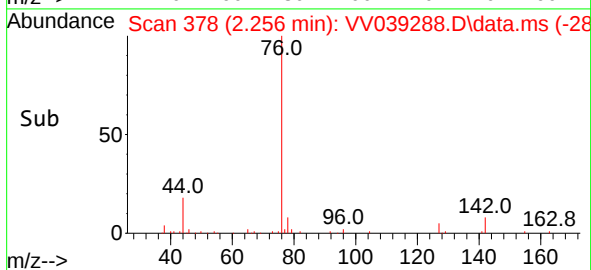
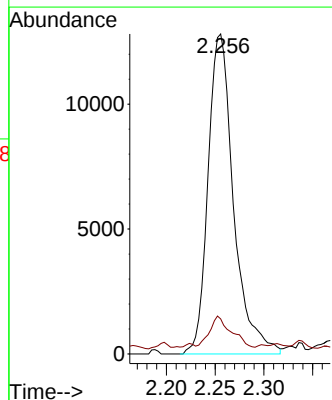
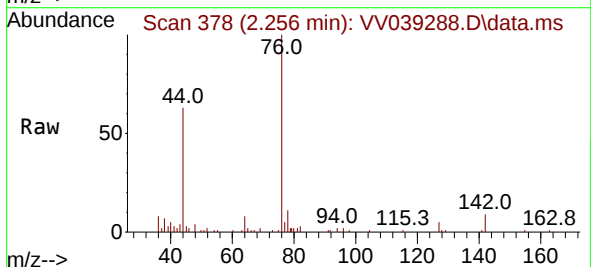
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

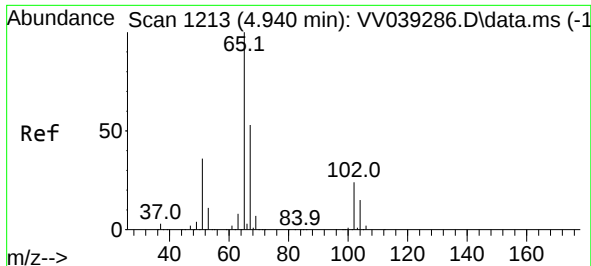
Tgt Ion:168 Resp: 467672
Ion Ratio Lower Upper
168 100
99 59.8 46.6 70.0



#17
Carbon Disulfide
Concen: 1.311 ug/l
RT: 2.256 min Scan# 378
Delta R.T. 0.003 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

Tgt Ion: 76 Resp: 23359
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.0





#33

1,2-Dichloroethane-d4

Concen: 61.115 ug/l

RT: 4.944 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

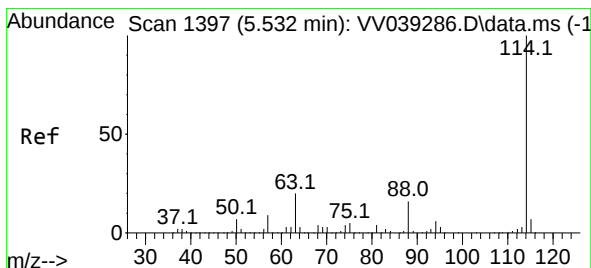
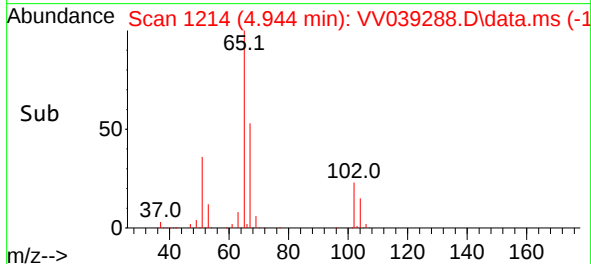
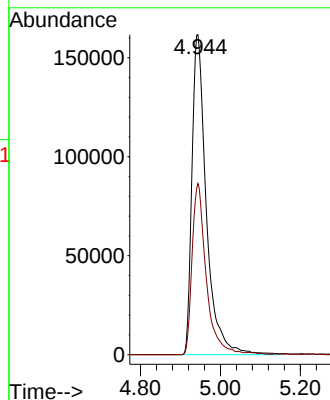
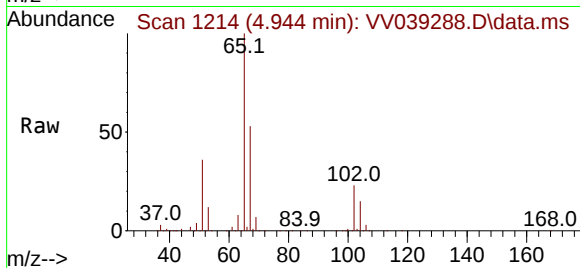
VIBLK

Tgt Ion: 65 Resp: 406131

Ion Ratio Lower Upper

65 100

67 52.1 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.003 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

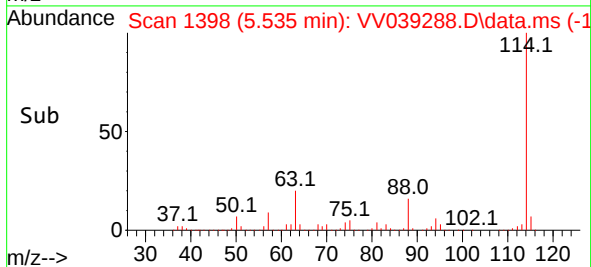
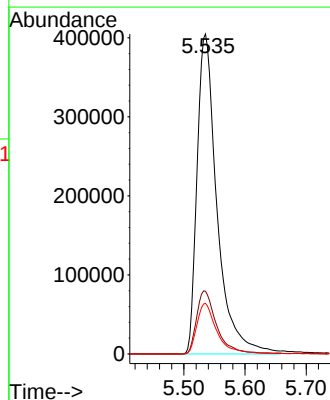
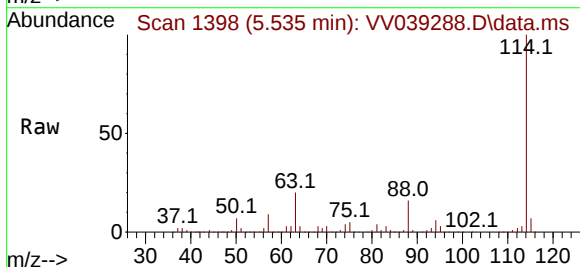
Tgt Ion: 114 Resp: 918767

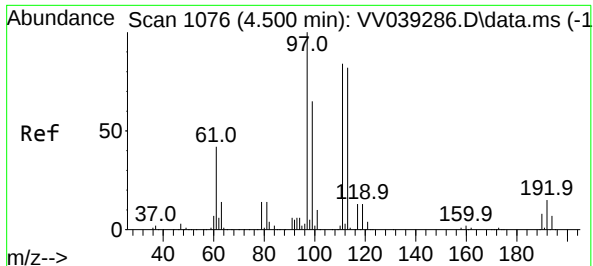
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 15.8 0.0 31.6

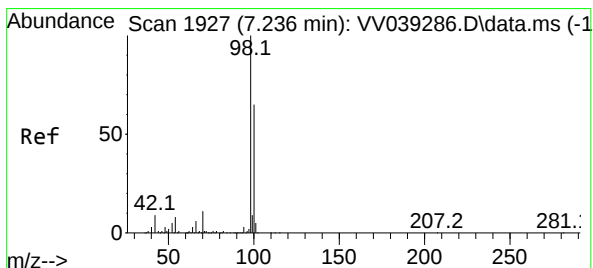
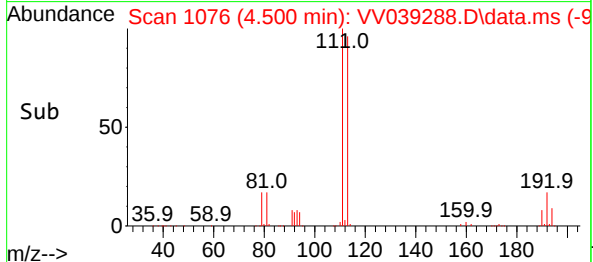
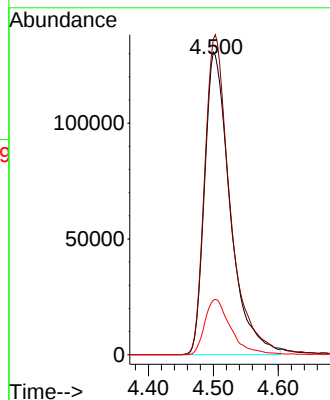
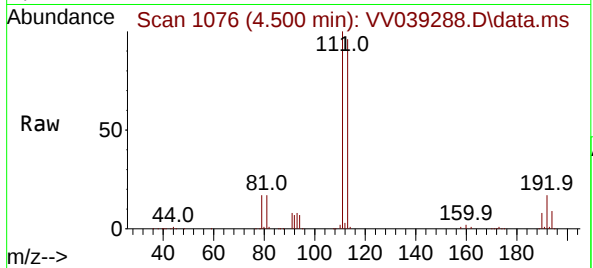




#35
Dibromofluoromethane
Concen: 49.298 ug/l
RT: 4.500 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

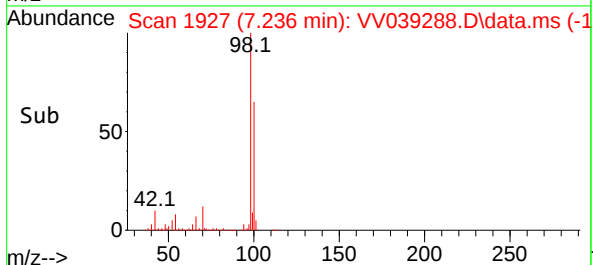
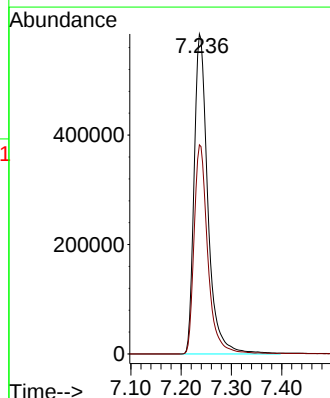
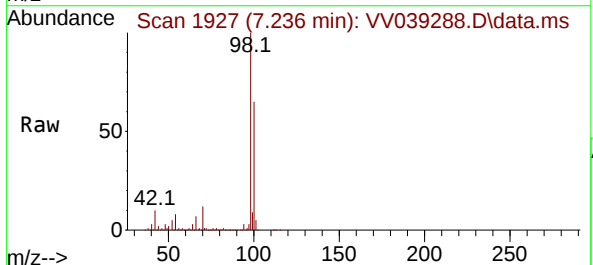
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

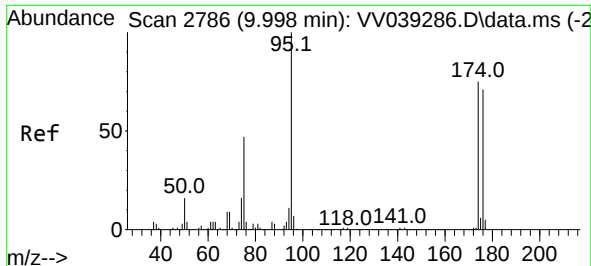
Tgt Ion:113 Resp: 356882
Ion Ratio Lower Upper
113 100
111 105.5 82.0 123.0
192 18.7 14.3 21.5



#50
Toluene-d8
Concen: 44.974 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

Tgt Ion: 98 Resp: 1107592
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2

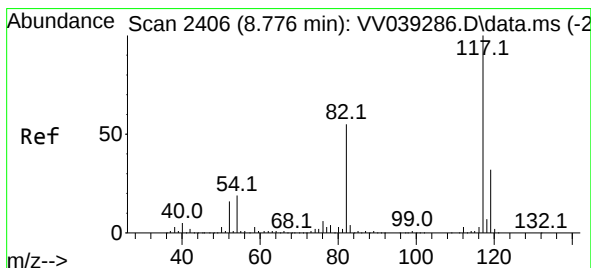
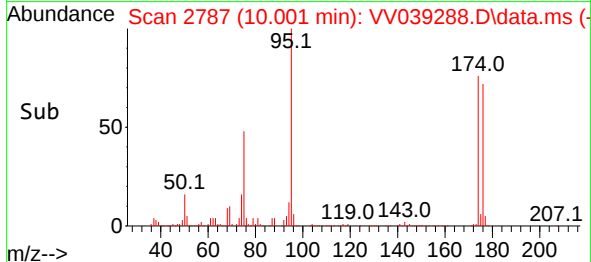
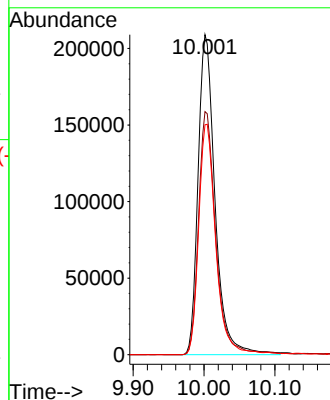
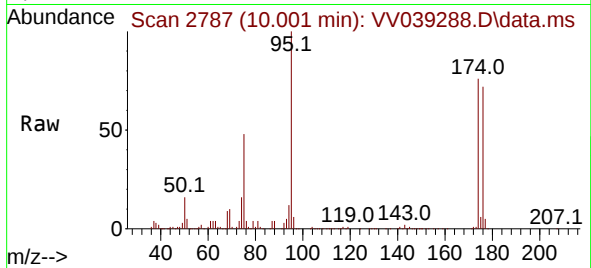




#62
4-Bromofluorobenzene
Concen: 39.644 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

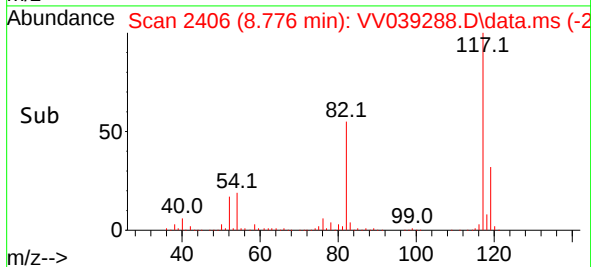
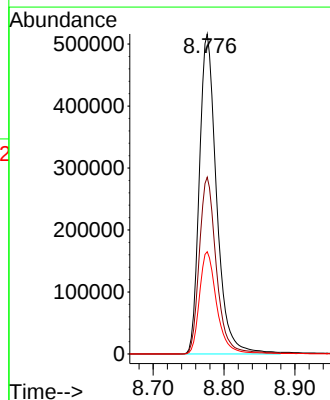
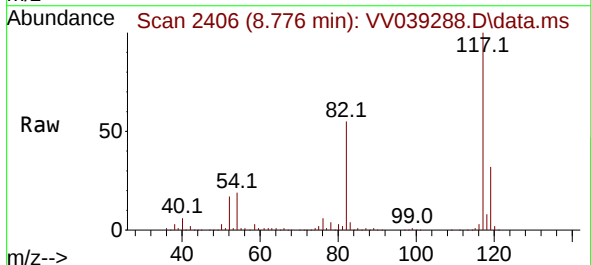
Instrument :
MSVOA_V
ClientSampleId :
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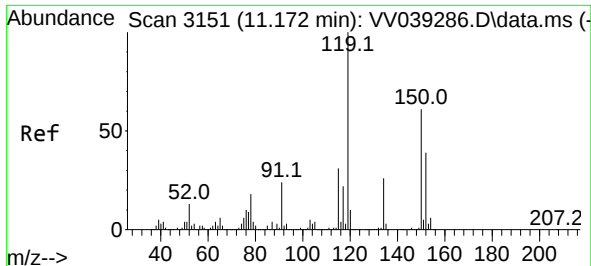
Tgt Ion: 95 Resp: 347711
Ion Ratio Lower Upper
95 100
174 76.5 0.0 153.6
176 72.2 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. -0.000 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

Tgt Ion: 117 Resp: 871613
Ion Ratio Lower Upper
117 100
82 55.2 43.8 65.8
119 32.0 25.8 38.6

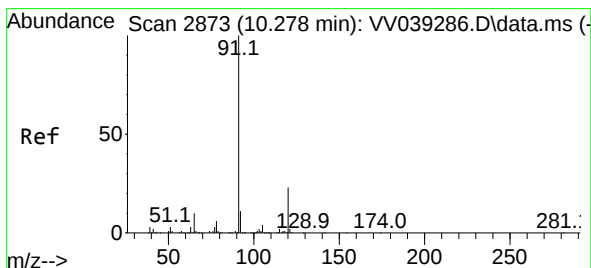
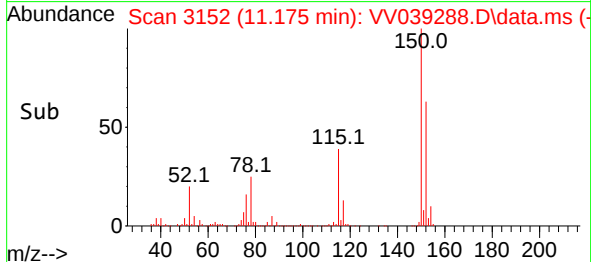
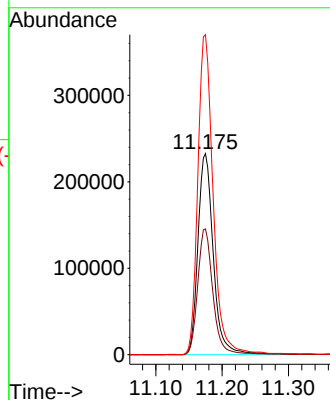
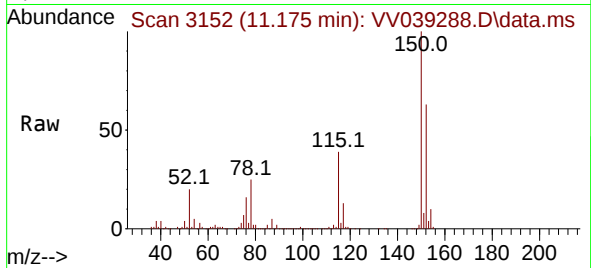




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3151
Delta R.T. 0.003 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

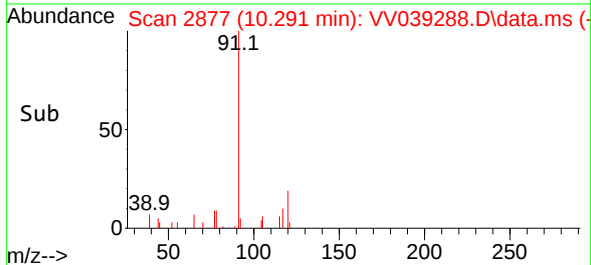
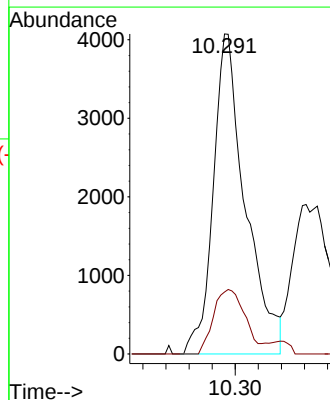
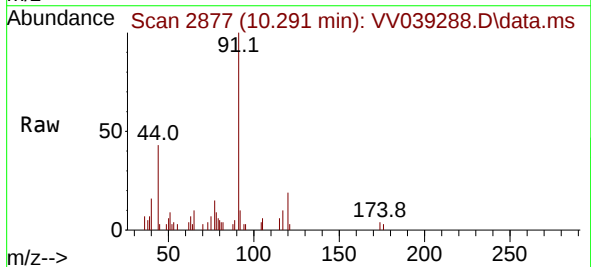
Instrument :
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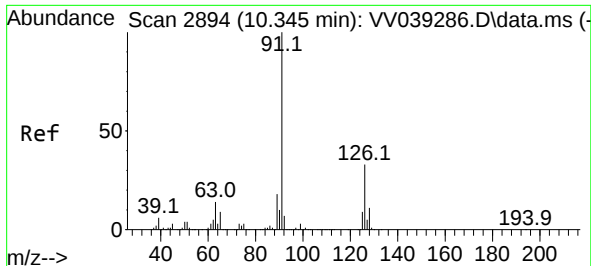
Tgt Ion:152 Resp: 375168
Ion Ratio Lower Upper
152 100
115 61.8 42.3 126.8
150 158.0 0.0 348.0



#78
n-propylbenzene
Concen: 0.284 ug/l
RT: 10.291 min Scan# 2877
Delta R.T. 0.013 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

Tgt Ion: 91 Resp: 7848
Ion Ratio Lower Upper
91 100
120 19.9 11.5 34.5

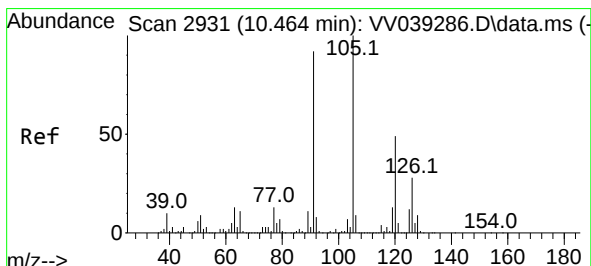
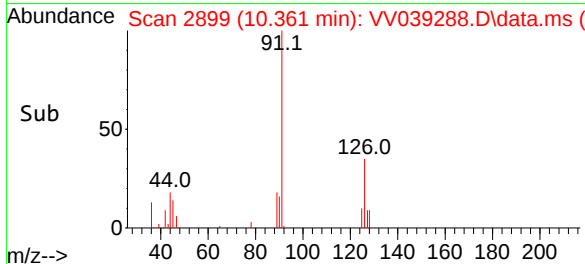
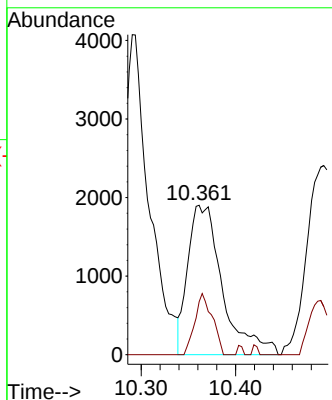
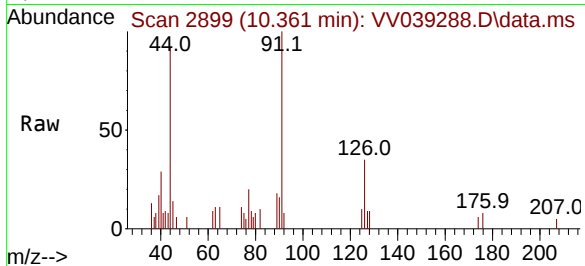




#79
2-Chlorotoluene
Concen: 0.284 ug/l
RT: 10.361 min Scan# 2899
Delta R.T. 0.016 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

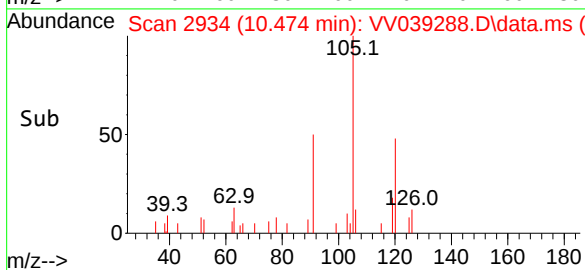
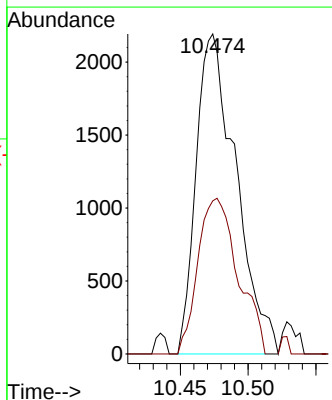
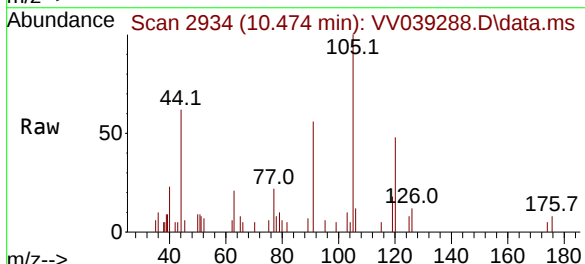
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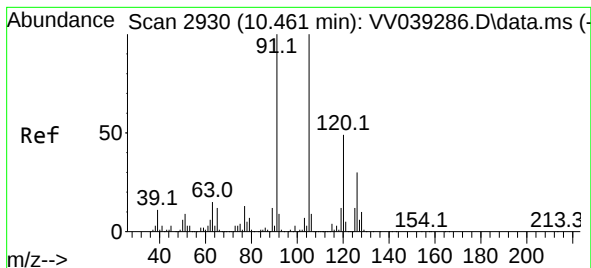
Tgt Ion: 91 Resp: 4842
Ion Ratio Lower Upper
91 100
126 20.7 16.9 50.6



#80
1,3,5-Trimethylbenzene
Concen: 0.234 ug/l
RT: 10.474 min Scan# 2934
Delta R.T. 0.010 min
Lab File: VV039288.D
Acq: 07 Oct 2025 11:55

Tgt Ion: 105 Resp: 4479
Ion Ratio Lower Upper
105 100
120 49.1 24.3 73.0





#82

4-Chlorotoluene

Concen: 0.280 ug/l

RT: 10.493 min Scan# 2930

Delta R.T. 0.032 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

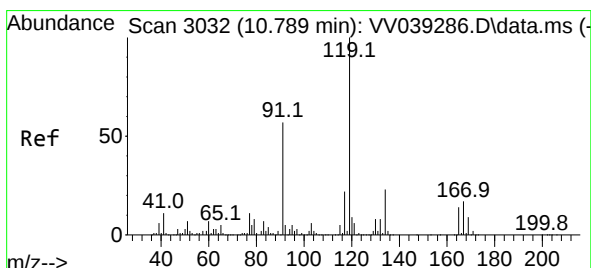
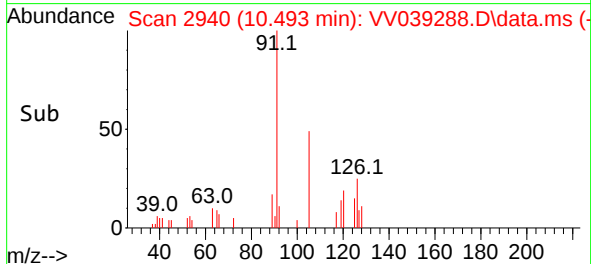
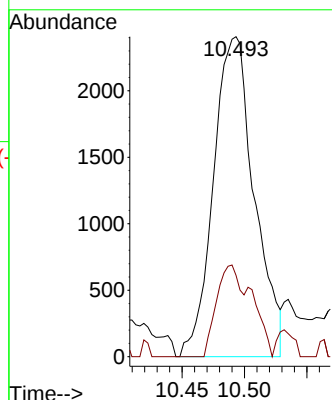
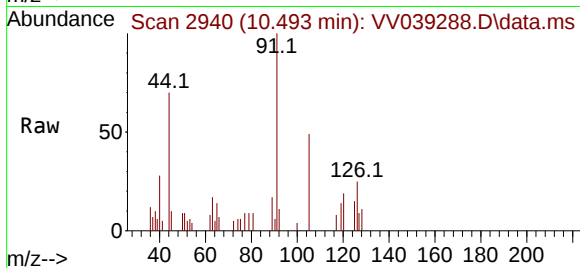
VIBLK

Tgt Ion: 91 Resp: 5487

Ion Ratio Lower Upper

91 100

126 17.4 14.8 44.4



#83

tert-Butylbenzene

Concen: 0.230 ug/l

RT: 10.795 min Scan# 3034

Delta R.T. 0.006 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

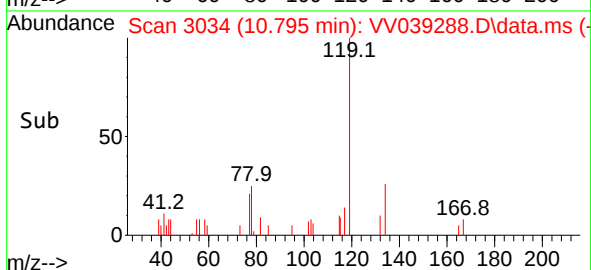
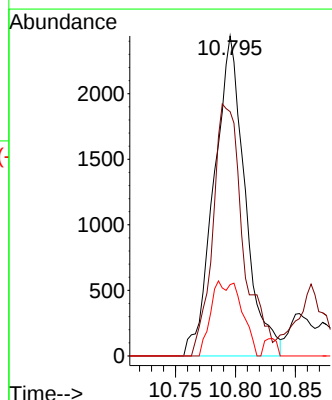
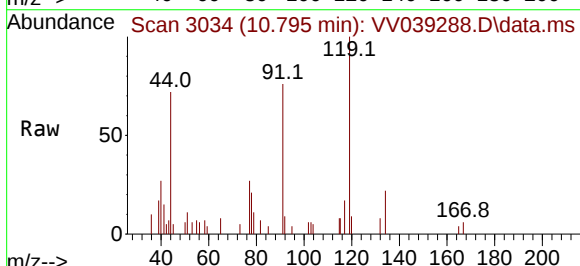
Tgt Ion: 119 Resp: 4371

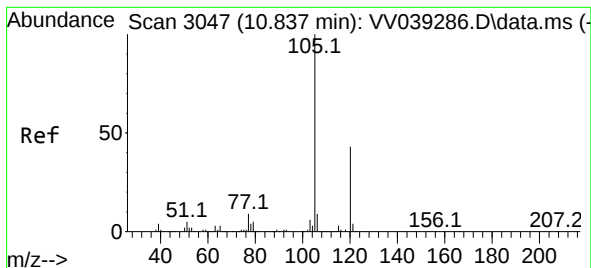
Ion Ratio Lower Upper

119 100

91 77.5 28.2 84.7

134 12.1 11.5 34.4





#84

1,2,4-Trimethylbenzene

Concen: 0.217 ug/l

RT: 10.857 min Scan# 3047

Delta R.T. 0.019 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

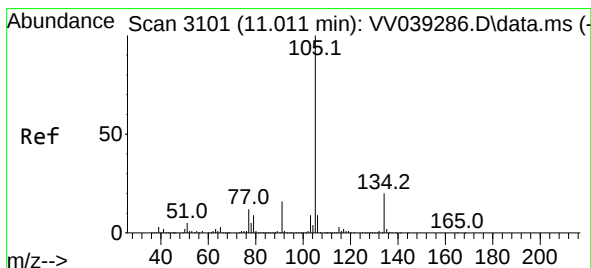
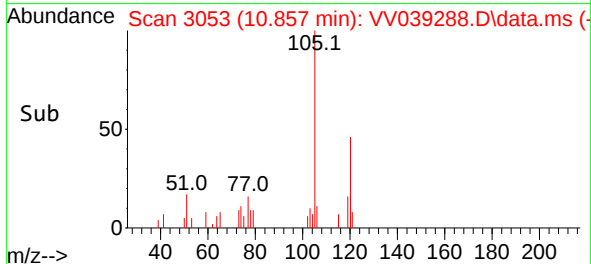
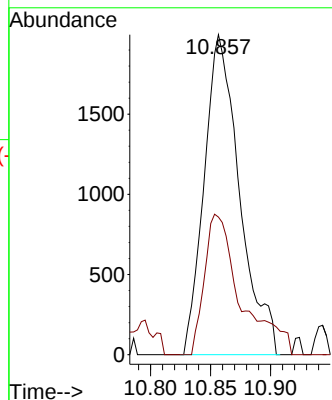
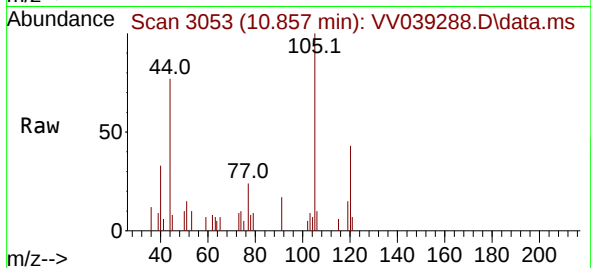
VIBLK

Tgt Ion:105 Resp: 4090

Ion Ratio Lower Upper

105 100

120 45.3 22.8 68.4



#85

sec-Butylbenzene

Concen: 0.280 ug/l

RT: 11.017 min Scan# 3103

Delta R.T. 0.006 min

Lab File: VV039288.D

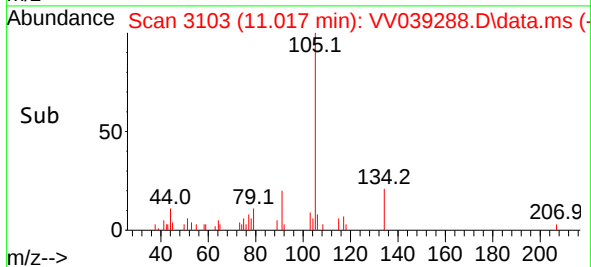
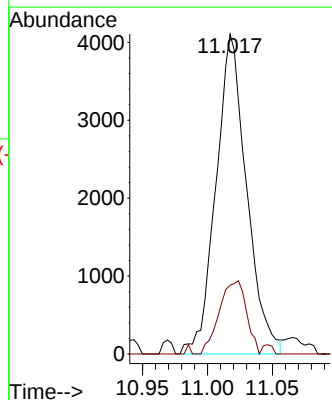
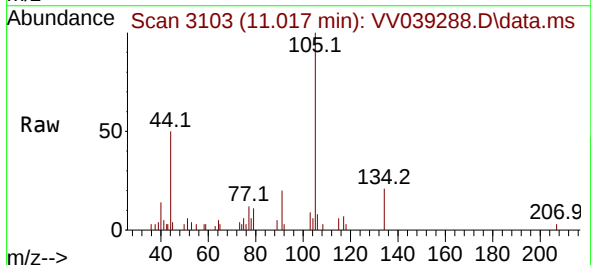
Acq: 07 Oct 2025 11:55

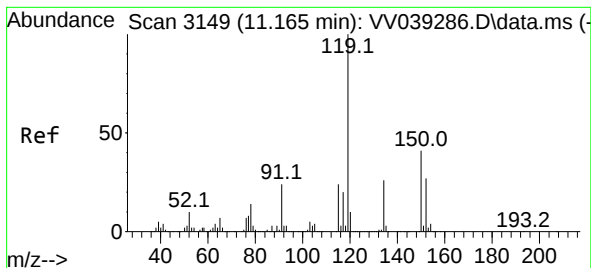
Tgt Ion:105 Resp: 6728

Ion Ratio Lower Upper

105 100

134 20.2 9.8 29.5





#86

p-Isopropyltoluene

Concen: 0.318 ug/l

RT: 11.175 min Scan# 3152

Delta R.T. 0.010 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

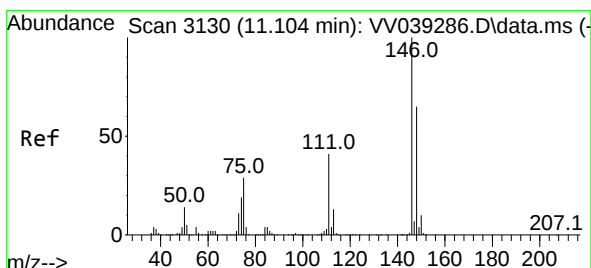
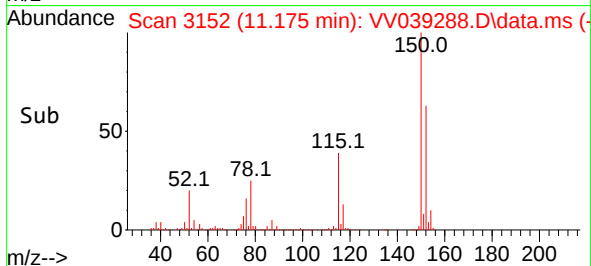
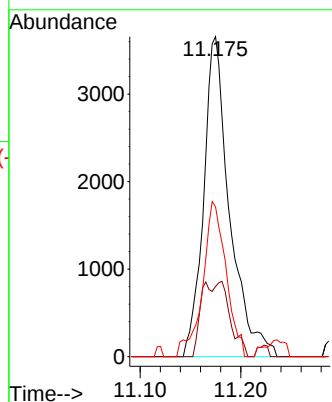
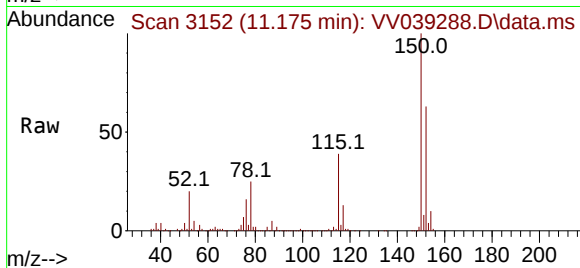
Tgt Ion:119 Resp: 6555

Ion Ratio Lower Upper

119 100

134 11.2 12.9 38.6#

91 43.6 12.2 36.4#



#87

1,3-Dichlorobenzene

Concen: 0.380 ug/l

RT: 11.123 min Scan# 3136

Delta R.T. 0.019 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

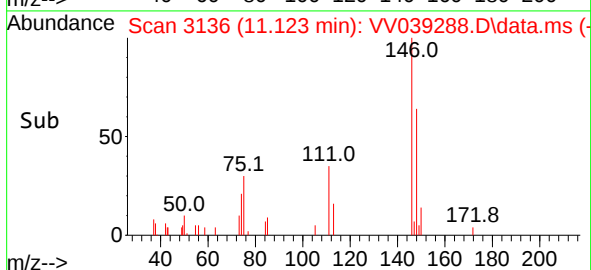
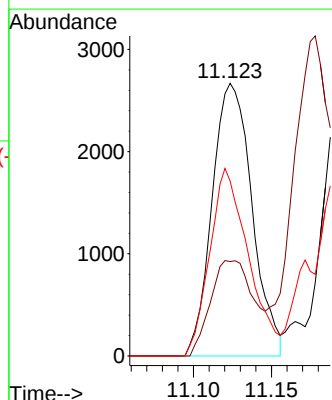
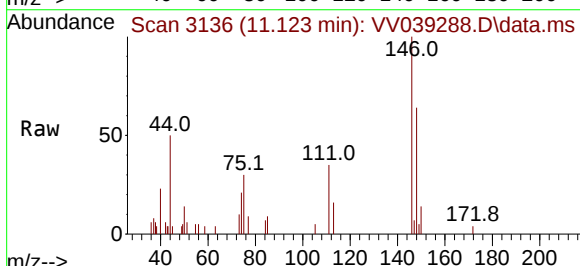
Tgt Ion:146 Resp: 4749

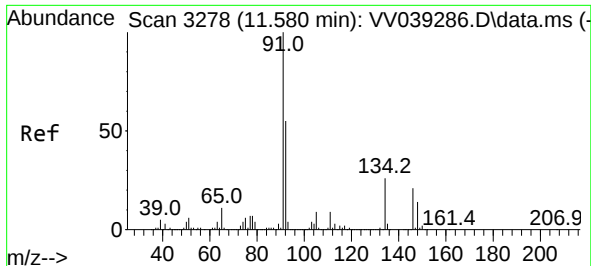
Ion Ratio Lower Upper

146 100

111 37.8 20.6 61.8

148 66.7 31.9 95.9





#89

n-Butylbenzene

Concen: 0.363 ug/l

RT: 11.593 min Scan# 31

Delta R.T. 0.013 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

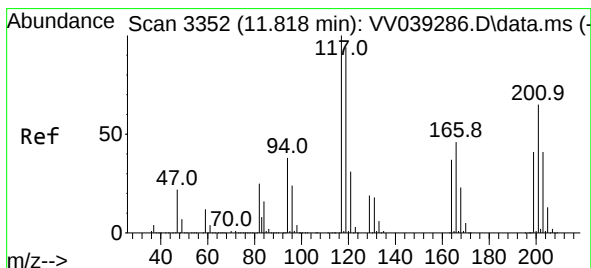
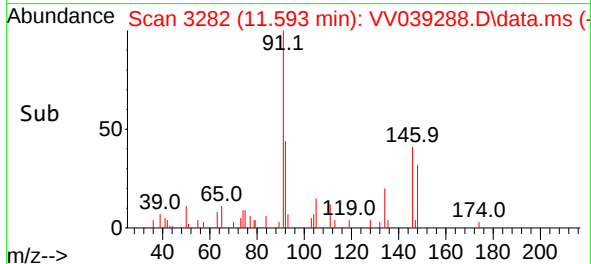
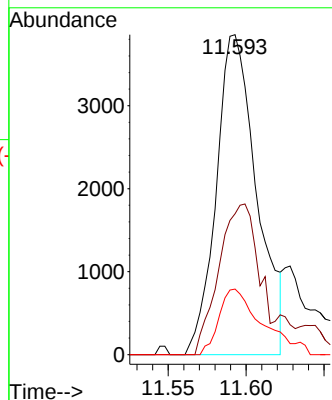
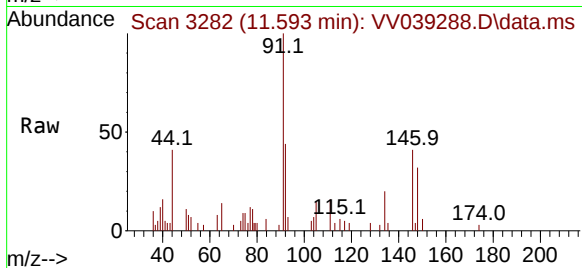
Tgt Ion: 91 Resp: 6974

Ion Ratio Lower Upper

91 100

92 47.1 26.9 80.6

134 22.0 12.6 37.8



#90

Hexachloroethane

Concen: 0.340 ug/l

RT: 11.828 min Scan# 3355

Delta R.T. 0.010 min

Lab File: VV039288.D

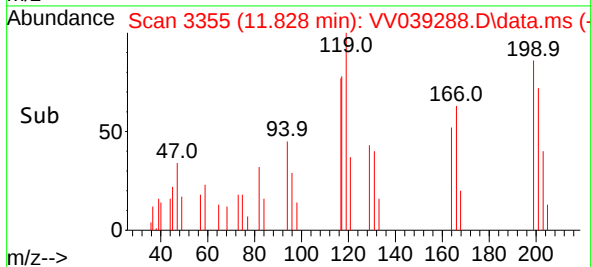
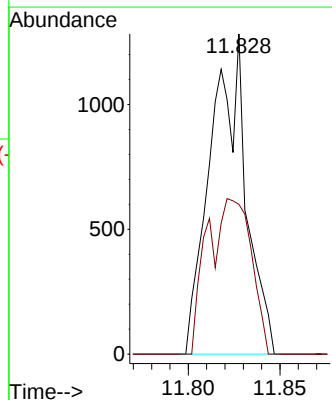
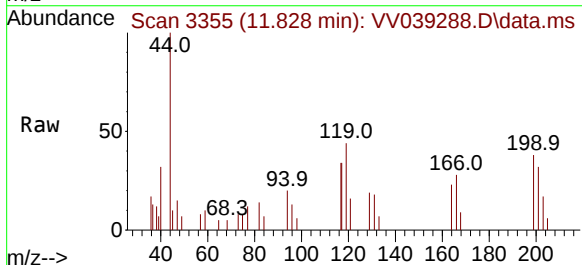
Acq: 07 Oct 2025 11:55

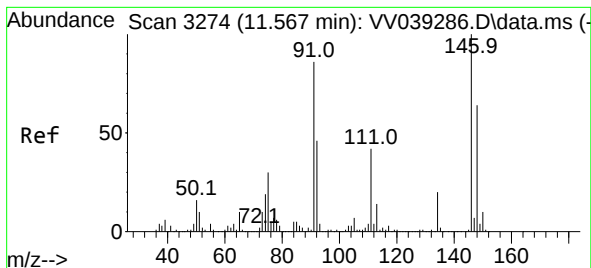
Tgt Ion: 117 Resp: 1735

Ion Ratio Lower Upper

117 100

201 41.9 33.7 101.1





#91

1,2-Dichlorobenzene

Concen: 0.295 ug/l

RT: 11.590 min Scan# 31

Delta R.T. 0.022 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

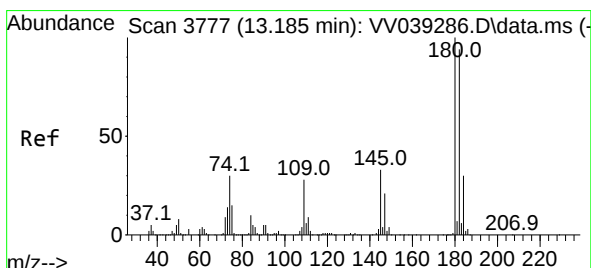
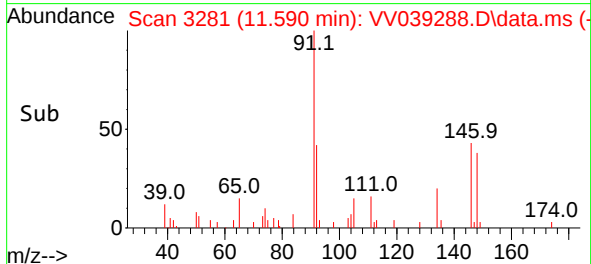
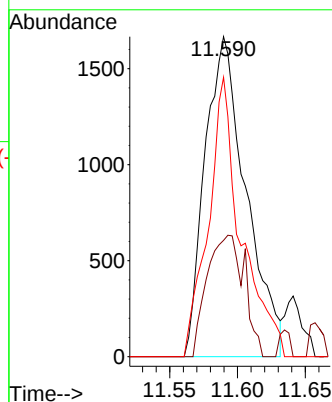
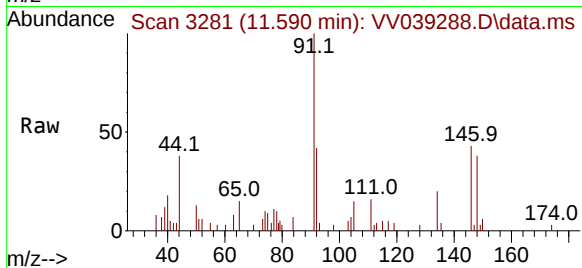
Tgt Ion:146 Resp: 3503

Ion Ratio Lower Upper

146 100

111 34.3 21.3 64.0

148 69.6 31.9 95.7



#93

1,2,4-Trichlorobenzene

Concen: 0.730 ug/l

RT: 13.201 min Scan# 3782

Delta R.T. 0.016 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

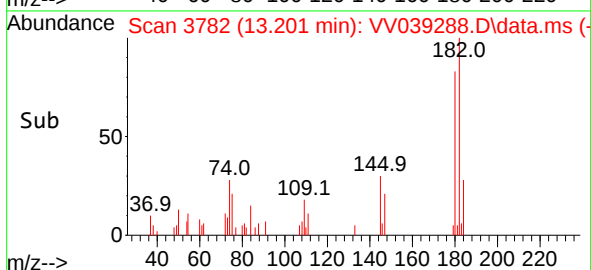
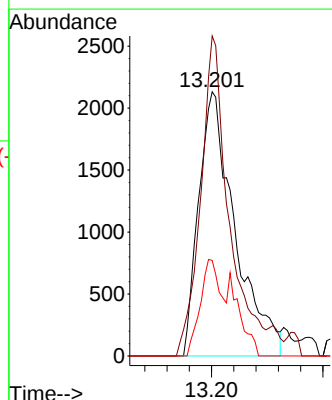
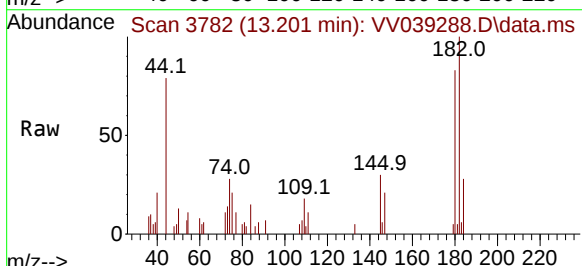
Tgt Ion:180 Resp: 4836

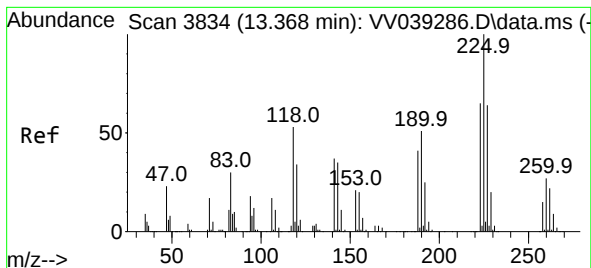
Ion Ratio Lower Upper

180 100

182 93.5 47.3 141.9

145 21.4 16.3 48.9





#94

Hexachlorobutadiene

Concen: 0.861 ug/l

RT: 13.371 min Scan# 3835

Delta R.T. 0.003 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

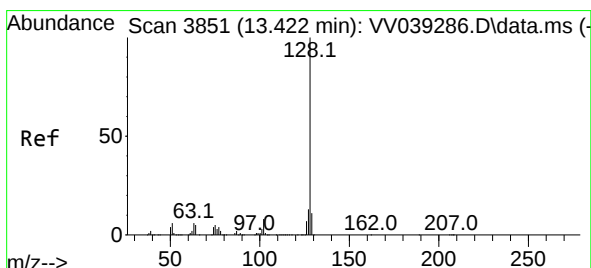
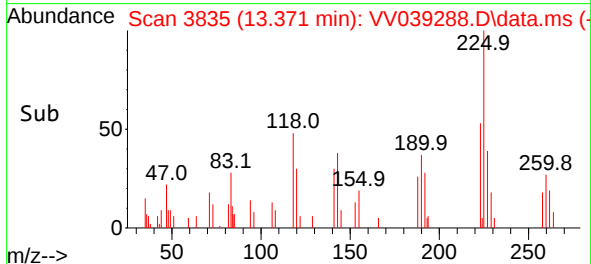
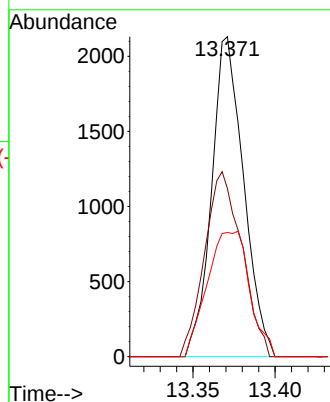
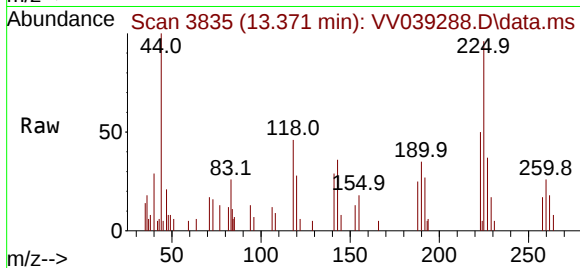
Tgt Ion:225 Resp: 2888

Ion Ratio Lower Upper

225 100

223 67.3 31.3 93.8

227 51.7 31.7 95.1



#95

Naphthalene

Concen: 0.309 ug/l

RT: 13.451 min Scan# 3860

Delta R.T. 0.029 min

Lab File: VV039288.D

Acq: 07 Oct 2025 11:55

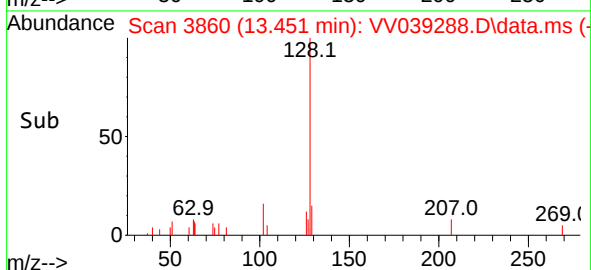
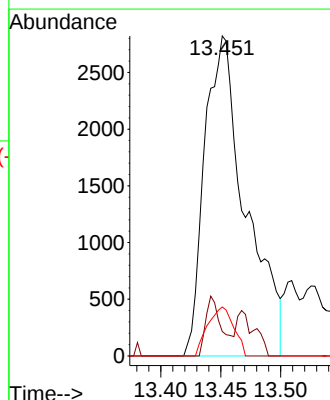
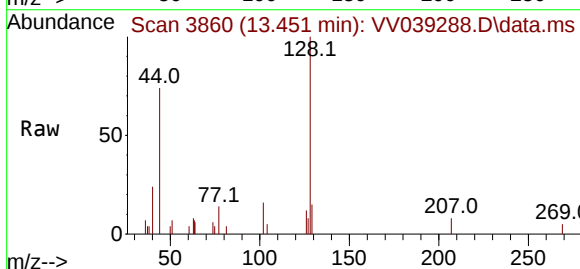
Tgt Ion:128 Resp: 6701

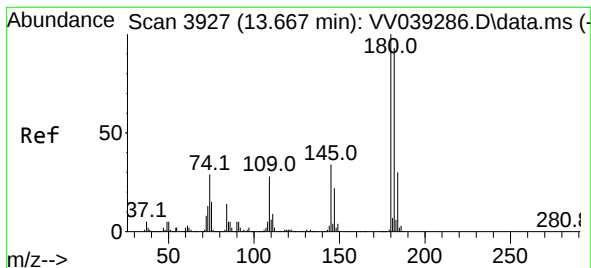
Ion Ratio Lower Upper

128 100

127 7.0 10.3 15.5#

129 9.7 8.6 12.8





#96

1,2,3-Trichlorobenzene

Concen: 0.589 ug/l

RT: 13.680 min Scan# 3931

Delta R.T. 0.013 min

Lab File: VV039288.D

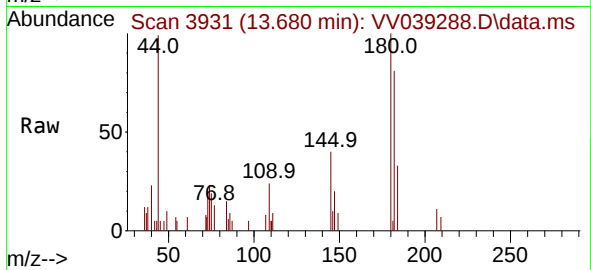
Acq: 07 Oct 2025 11:55

Instrument :

MSVOA_V

ClientSampleId :

VIBLK



Tgt Ion:180 Resp: 4056

Ion Ratio Lower Upper

180 100

182 96.4 46.7 140.1

145 35.3 17.2 51.5

