

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
 Data File : VV039200.D
 Acq On : 26 Sep 2025 10:23
 Operator : SY/MD
 Sample : VV0926WBL01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV0926WBL01

Quant Time: Sep 27 02:50:24 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)

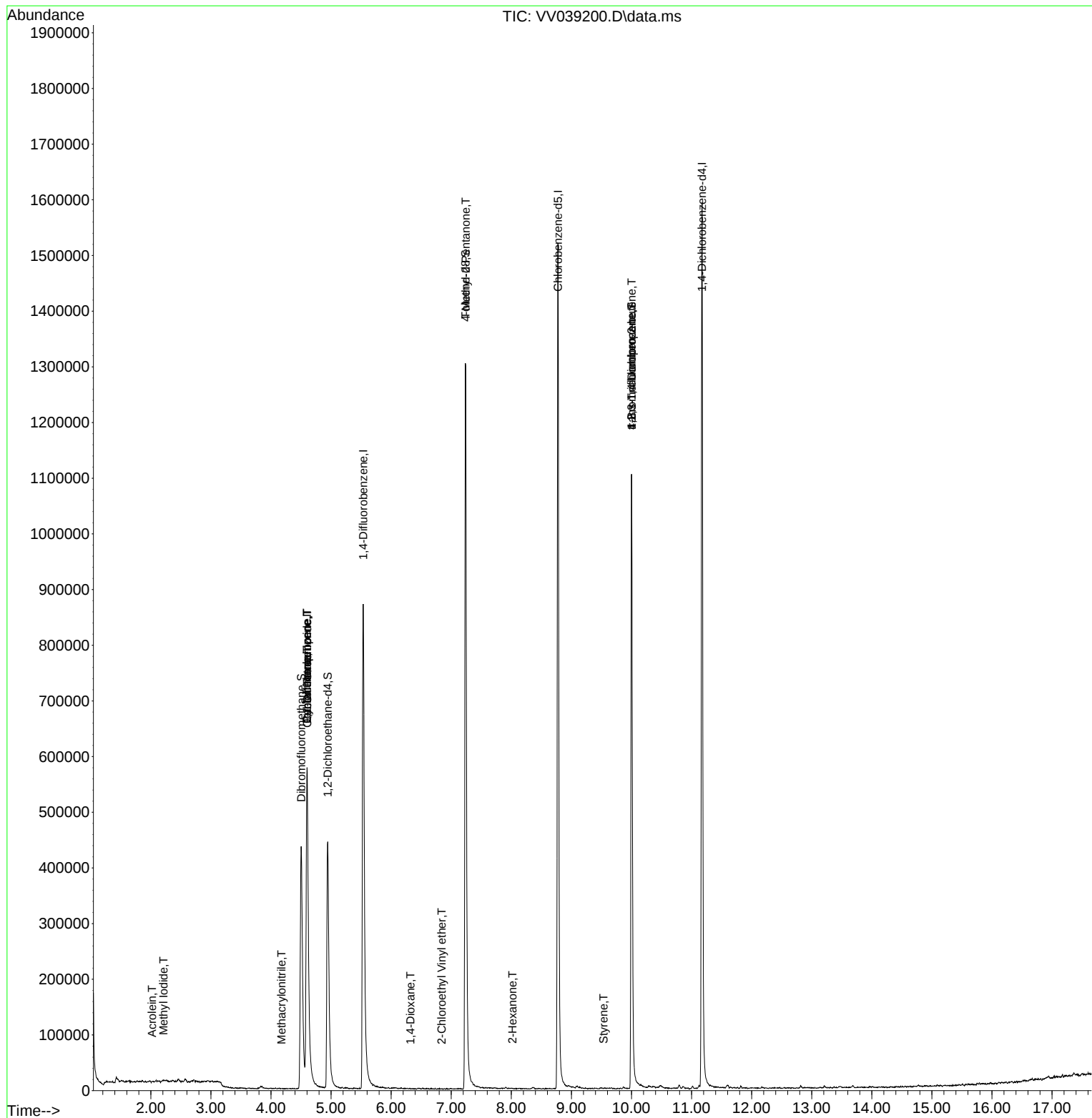
Internal Standards						
1) Pentafluorobenzene	4.600	168	488972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	870889	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	870759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	422120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	399373	56.433	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 112.860%	
35) Dibromofluoromethane	4.503	113	357344	51.040	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 102.080%	
50) Toluene-d8	7.236	98	952055	46.300	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 92.600%	
62) 4-Bromofluorobenzene	10.001	95	387045	45.722	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 91.440%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.529	64	207	Below Cal	#	37
10) Methyl Iodide	2.211	142	2058	0.282	ug/l #	82
13) Acrolein	2.018	56	120	0.462	ug/l #	15
16) Acetone	2.121	43	1005	Below Cal	#	86
20) Methylene Chloride	2.458	84	2414	Below Cal	#	84
31) Cyclohexane	4.600	56	10741	0.851	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	41672	3.937	ug/l #	46
38) Carbon Tetrachloride	4.603	117	54662	4.225	ug/l #	16
41) Methacrylonitrile	4.175	41	156	1.936	ug/l #	40
49) 1,4-Dioxane	6.320	88	76	0.593	ug/l #	1
51) 4-Methyl-2-Pentanone	7.239	43	3979	0.345	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.841	63	20	9.626	ug/l #	47
59) 2-Hexanone	8.018	43	113	2.338	ug/l	93
70) Styrene	9.535	104	117	1.566	ug/l #	37
76) 1,2,3-Trichloropropane	10.001	75	185096	19.259	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	185096	46.234	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.339	75	22	Below Cal	#	5

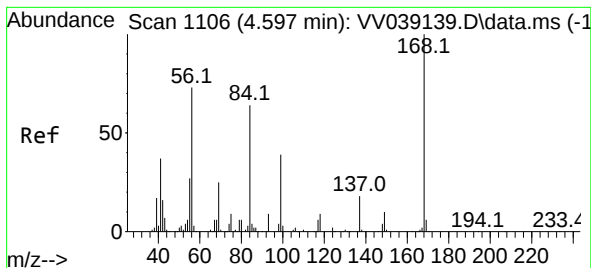
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VV039200.D

Acq: 26 Sep 2025 10:23

Instrument :

MSVOA_V

ClientSampleId :

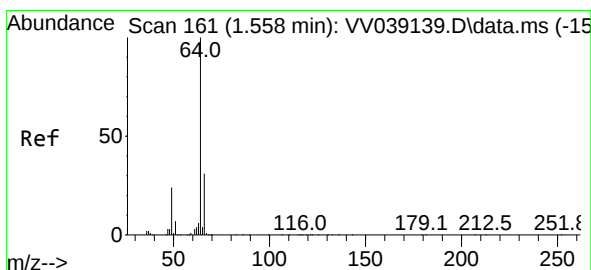
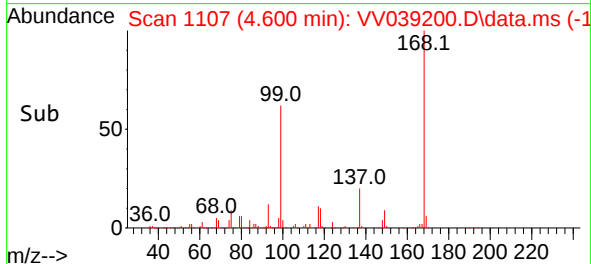
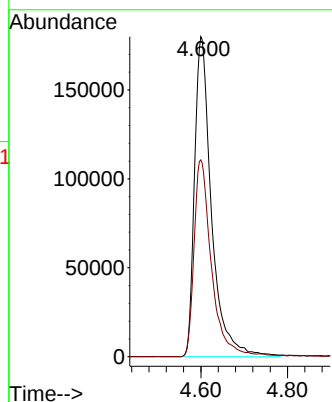
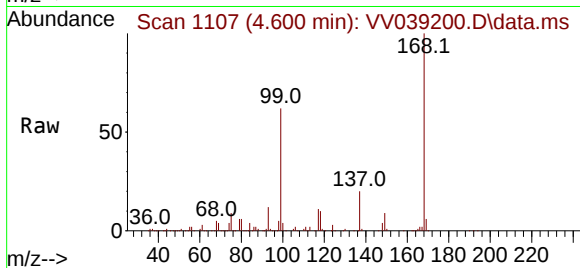
VV0926WBL01

Tgt Ion:168 Resp: 488972

Ion Ratio Lower Upper

168 100

99 61.5 49.6 74.4



#6

Chloroethane

Concen: Below Cal

RT: 1.529 min Scan# 152

Delta R.T. -0.029 min

Lab File: VV039200.D

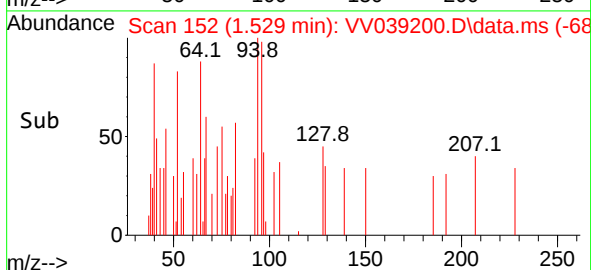
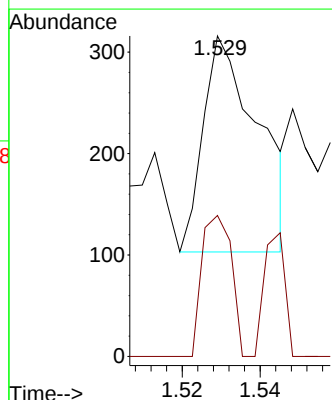
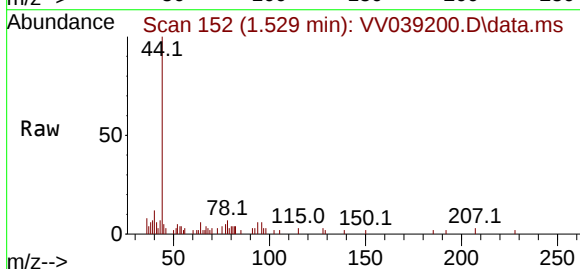
Acq: 26 Sep 2025 10:23

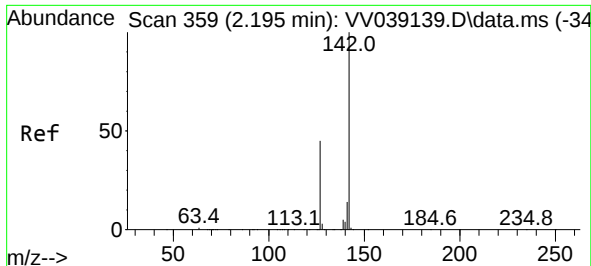
Tgt Ion: 64 Resp: 207

Ion Ratio Lower Upper

64 100

66 65.3 24.6 36.8#

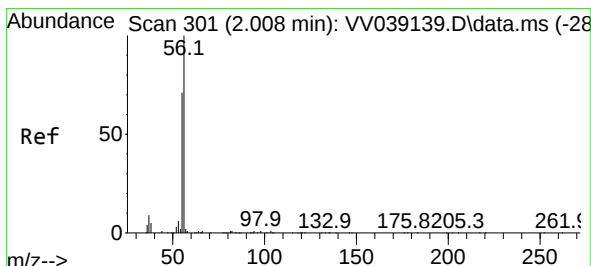
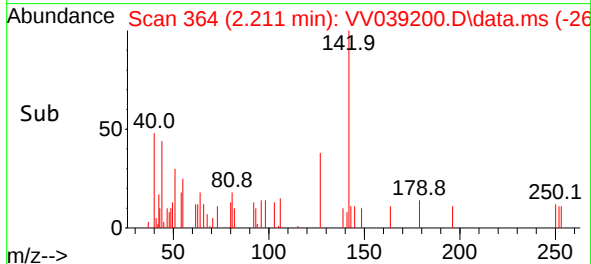
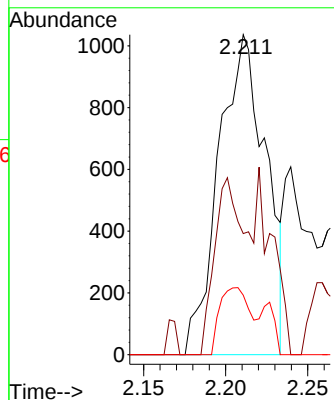
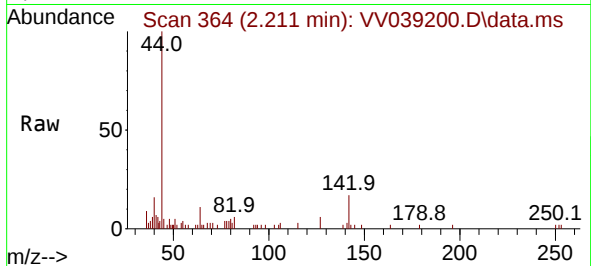




#10
Methyl Iodide
Concen: 0.282 ug/l
RT: 2.211 min Scan# 304
Delta R.T. 0.016 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

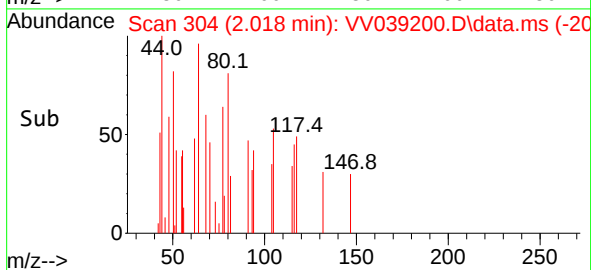
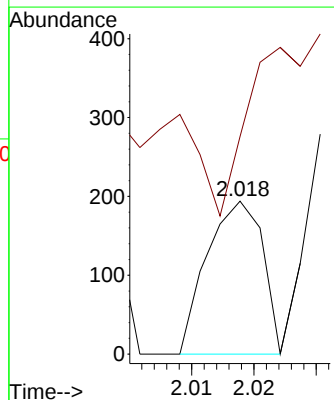
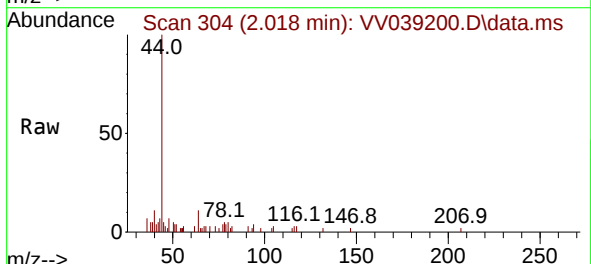
Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

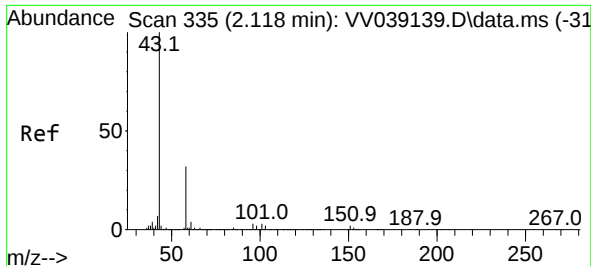
Tgt Ion:142 Resp: 2058
Ion Ratio Lower Upper
142 100
127 30.2 36.3 54.5#
141 13.1 11.2 16.8



#13
Acrolein
Concen: 0.462 ug/l
RT: 2.018 min Scan# 304
Delta R.T. 0.010 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 56 Resp: 120
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

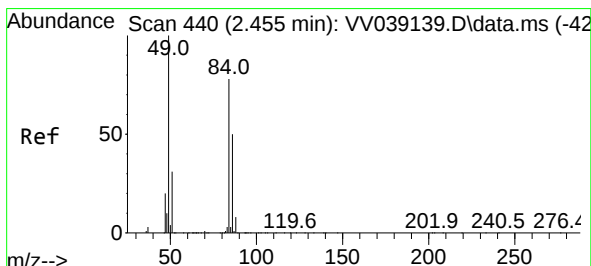
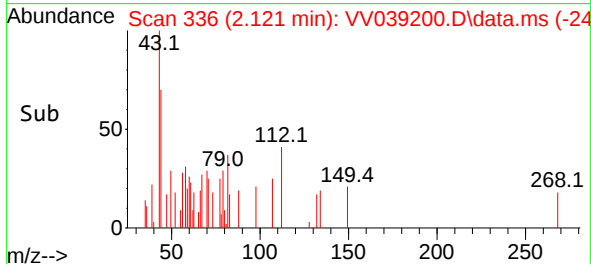
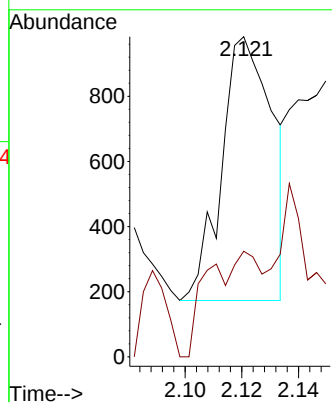
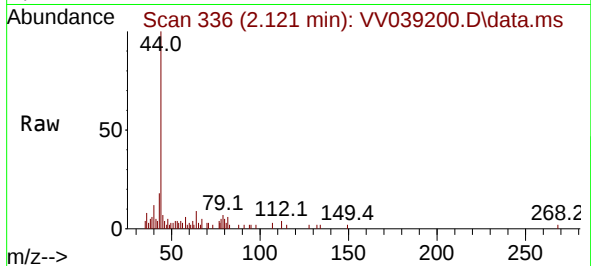




#16
Acetone
Concen: Below Cal
RT: 2.121 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

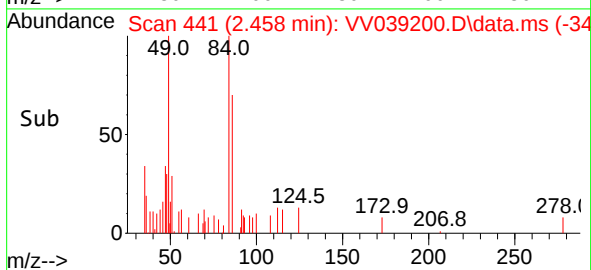
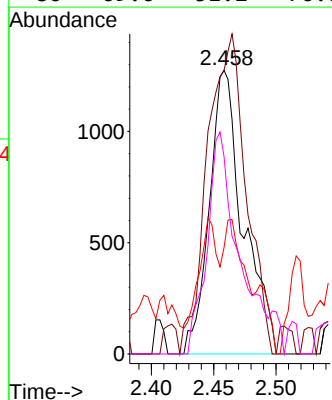
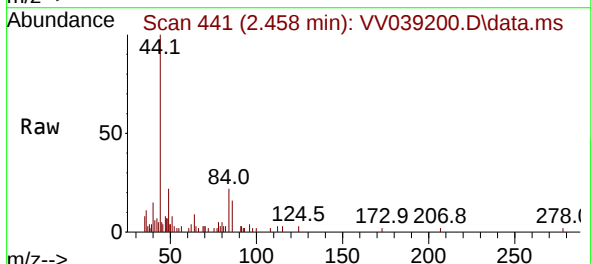
Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

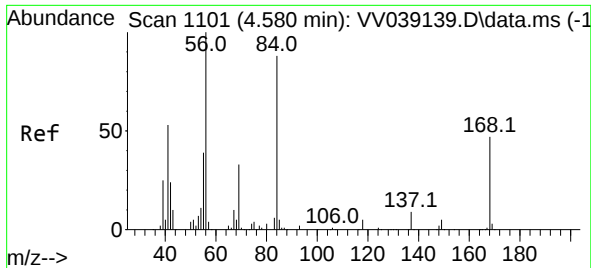
Tgt Ion: 43 Resp: 1005
Ion Ratio Lower Upper
43 100
58 40.0 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 84 Resp: 2414
Ion Ratio Lower Upper
84 100
49 99.9 102.8 154.2#
51 37.5 31.9 47.9
86 69.6 51.2 76.8

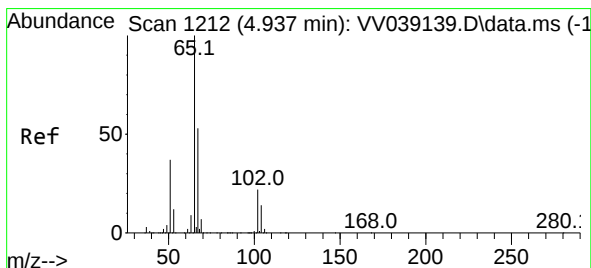
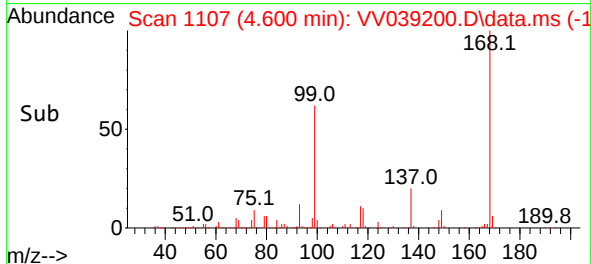
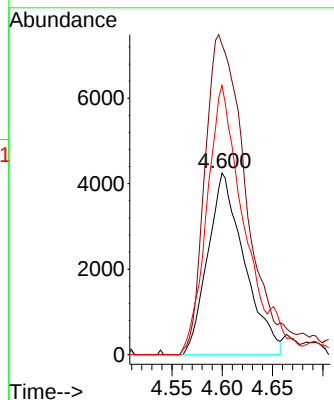
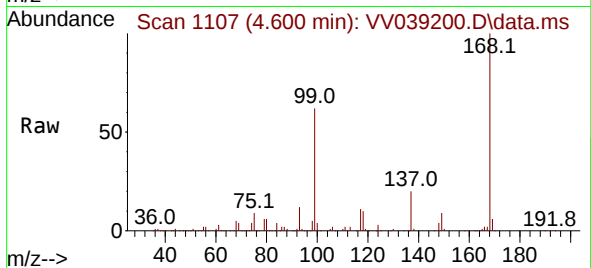




#31
Cyclohexane
Concen: 0.851 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

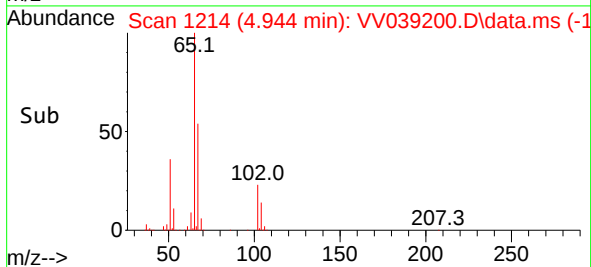
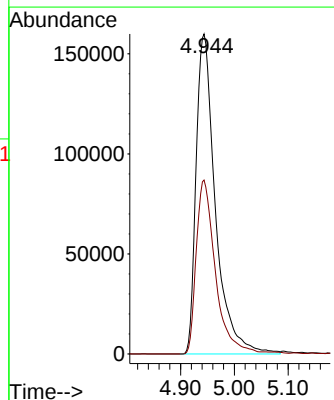
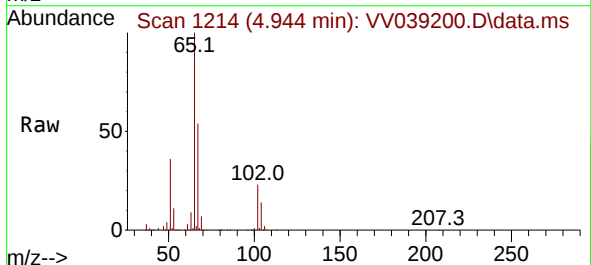
Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

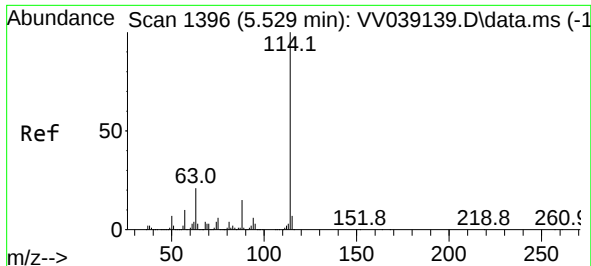
Tgt Ion: 56 Resp: 10741
Ion Ratio Lower Upper
56 100
69 171.0 26.2 39.2#
84 148.4 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 56.433 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 65 Resp: 399373
Ion Ratio Lower Upper
65 100
67 53.9 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039200.D

Acq: 26 Sep 2025 10:23

Instrument :

MSVOA_V

ClientSampleId :

VV0926WBL01

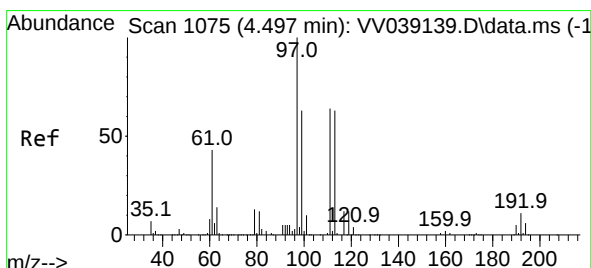
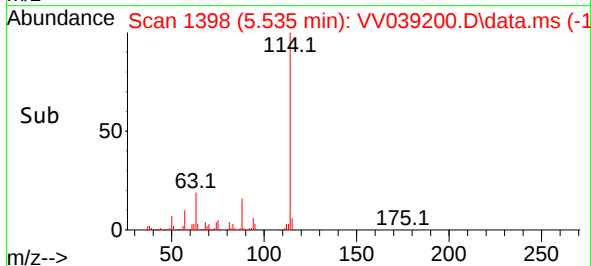
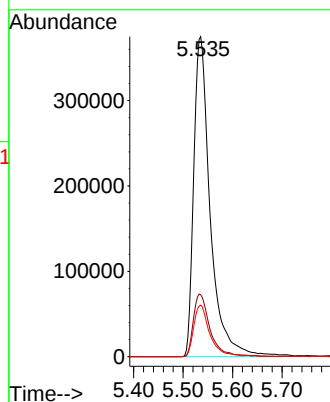
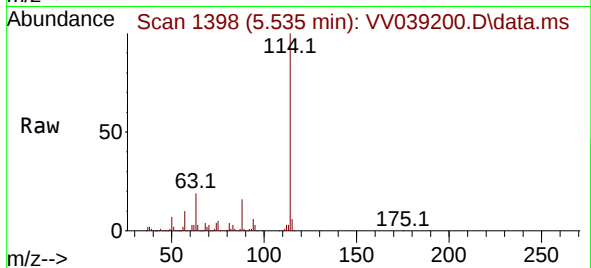
Tgt Ion:114 Resp: 870889

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.6

88 16.1 0.0 30.8



#35

Dibromofluoromethane

Concen: 51.040 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039200.D

Acq: 26 Sep 2025 10:23

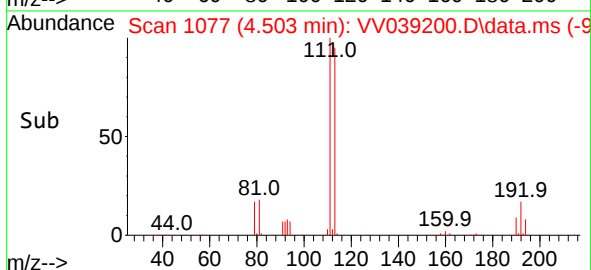
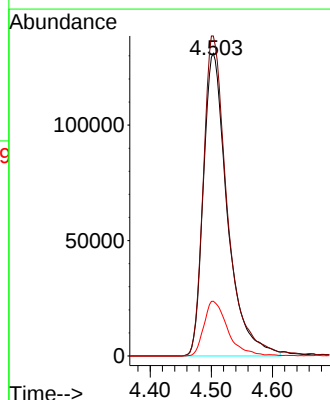
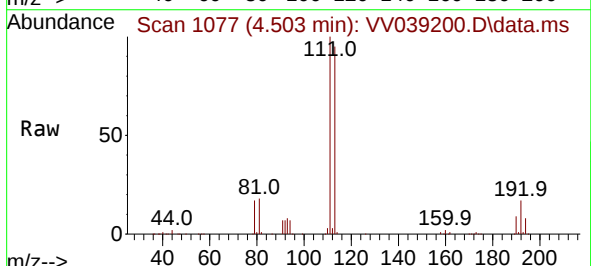
Tgt Ion:113 Resp: 357344

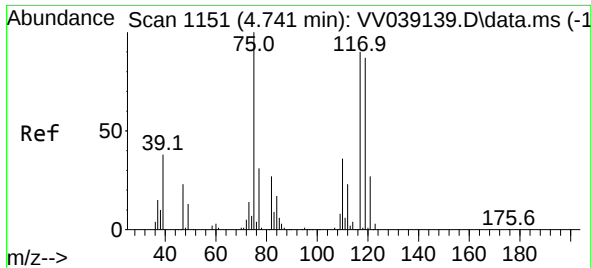
Ion Ratio Lower Upper

113 100

111 105.6 82.4 123.6

192 17.9 13.8 20.8

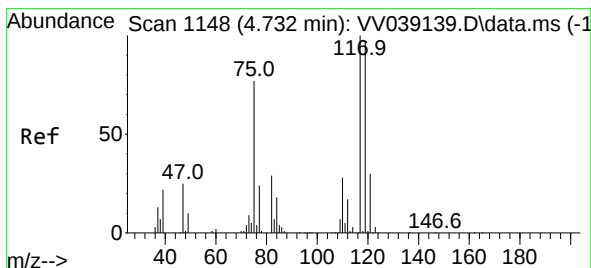
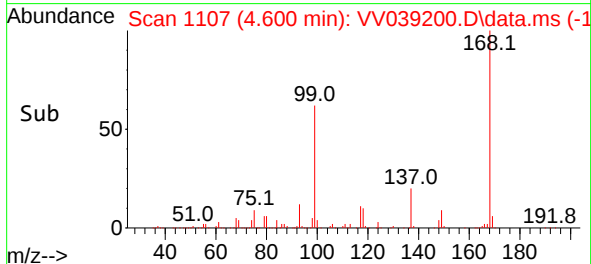
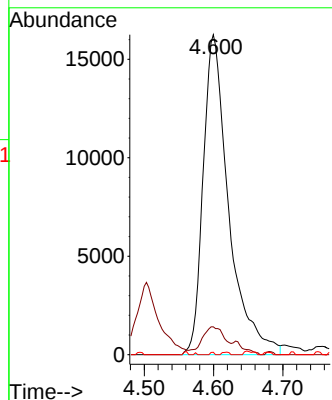
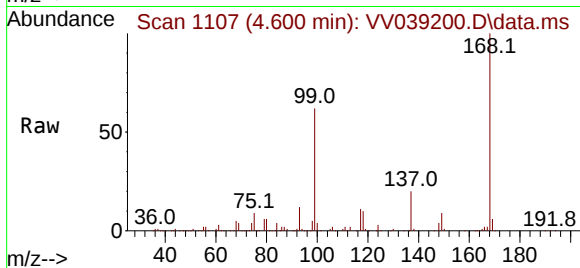




#36
 1,1-Dichloropropene
 Concen: 3.937 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039200.D
 Acq: 26 Sep 2025 10:23

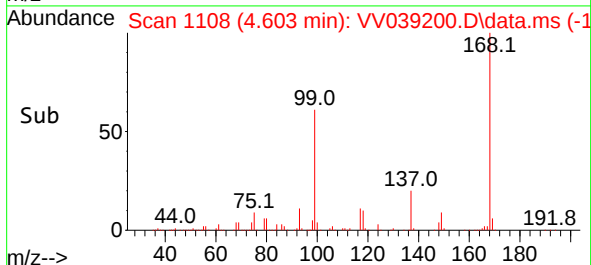
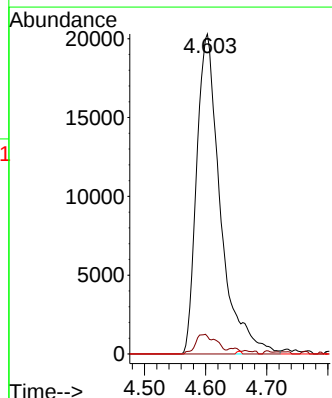
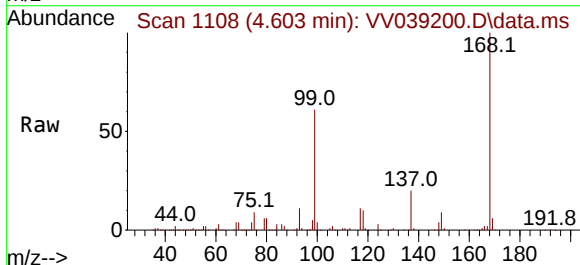
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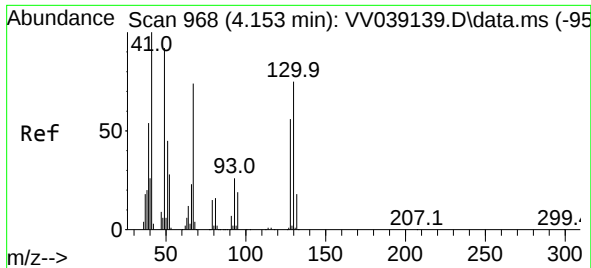
Tgt Ion: 75 Resp: 41672
 Ion Ratio Lower Upper
 75 100
 110 5.5 18.1 54.1#
 77 0.1 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 4.225 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.129 min
 Lab File: VV039200.D
 Acq: 26 Sep 2025 10:23

Tgt Ion: 117 Resp: 54662
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.2 115.8#
 121 0.0 24.2 36.2#

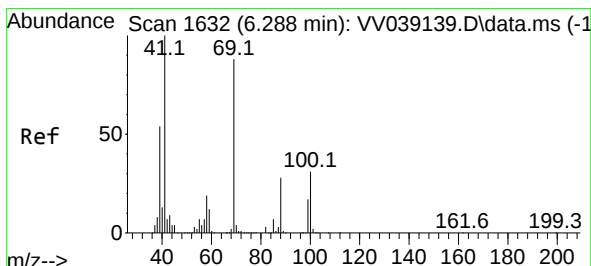
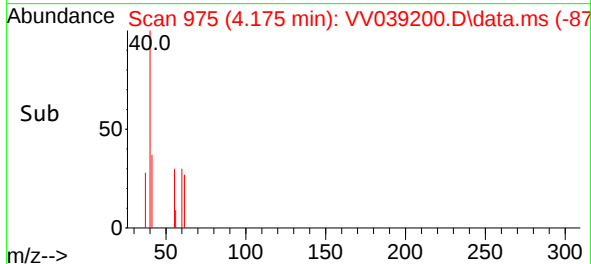
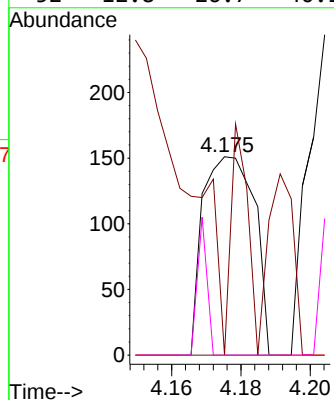
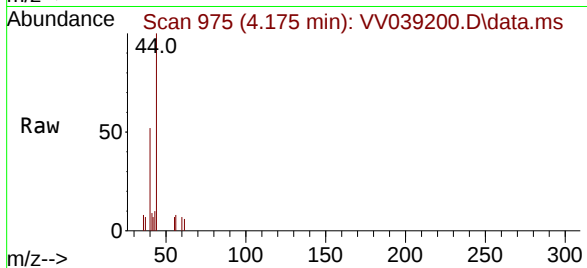




#41
Methacrylonitrile
Concen: 1.936 ug/l
RT: 4.175 min Scan# 91
Delta R.T. 0.022 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

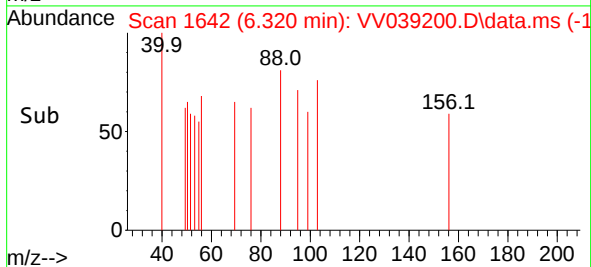
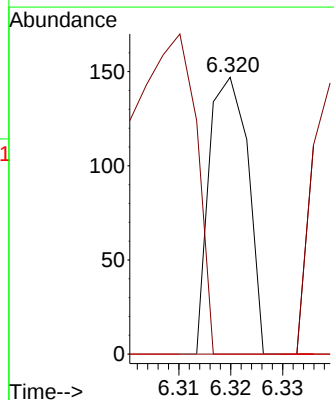
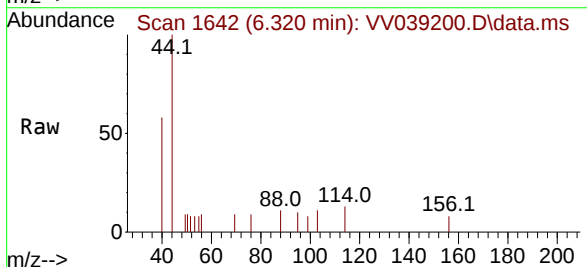
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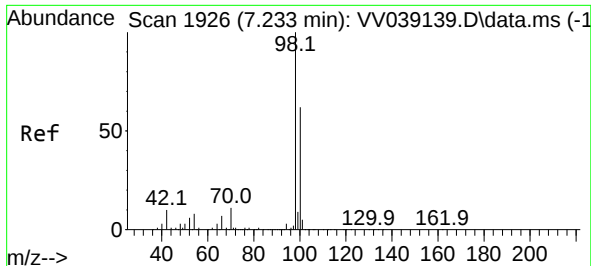
Tgt Ion:	41	Resp:	156
Ion	Ratio	Lower	Upper
41	100		
39	37.2	42.2	63.2#
67	0.0	67.9	101.9#
52	12.8	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.593 ug/l
RT: 6.320 min Scan# 1642
Delta R.T. 0.032 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion:	88	Resp:	76
Ion	Ratio	Lower	Upper
88	100		
43	182.9	25.1	37.7#
58	0.0	53.6	80.4#

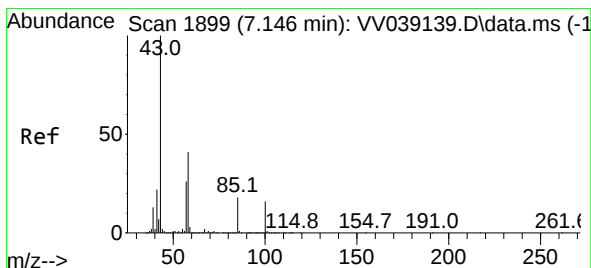
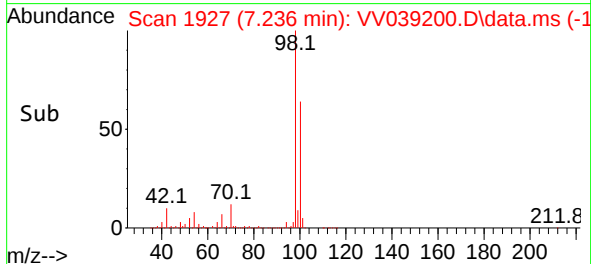
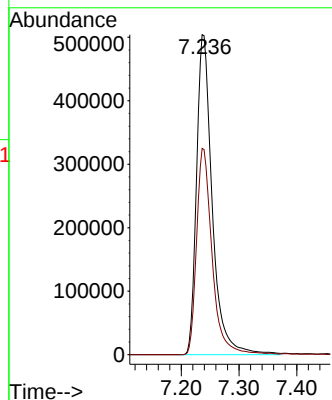
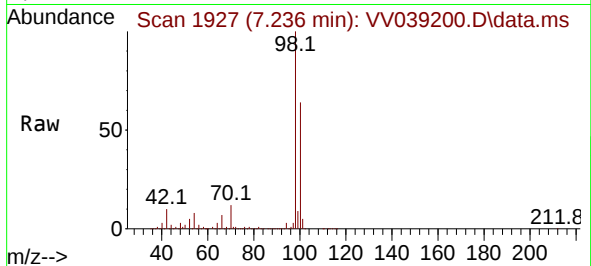




#50
Toluene-d8
Concen: 46.300 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

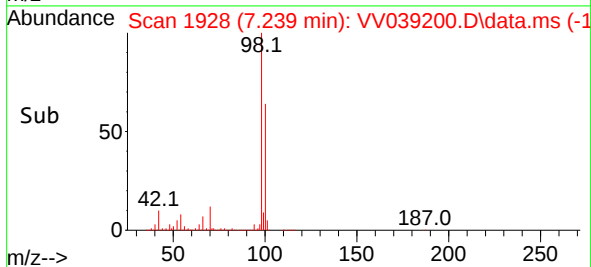
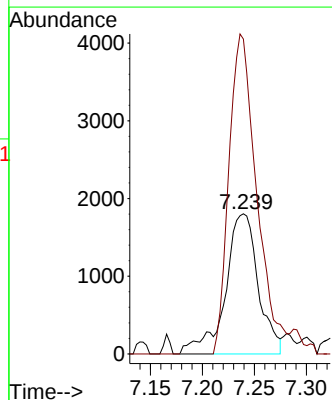
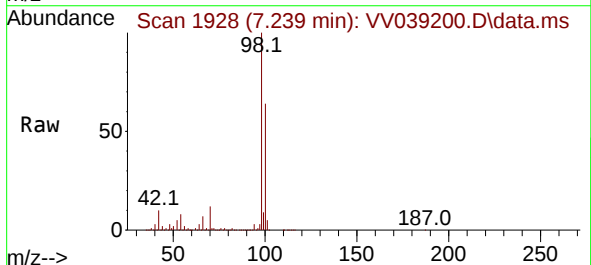
Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

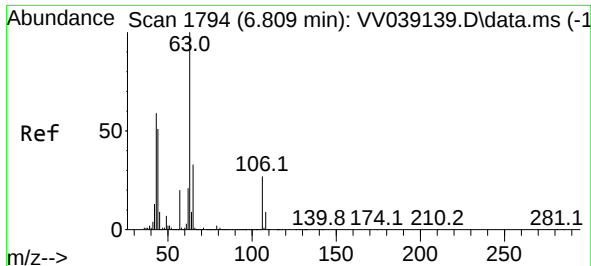
Tgt Ion: 98 Resp: 952055
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.345 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.093 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 43 Resp: 3979
Ion Ratio Lower Upper
43 100
58 191.8 32.3 48.5

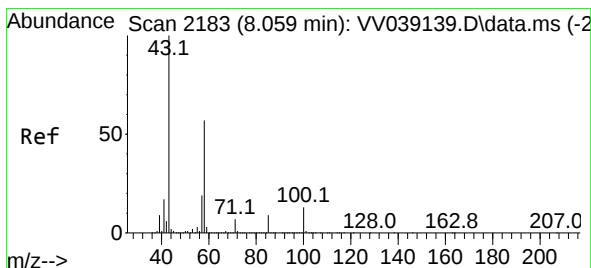
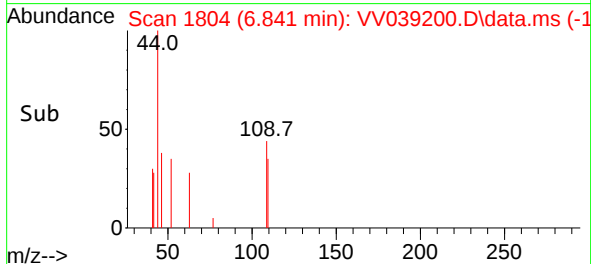
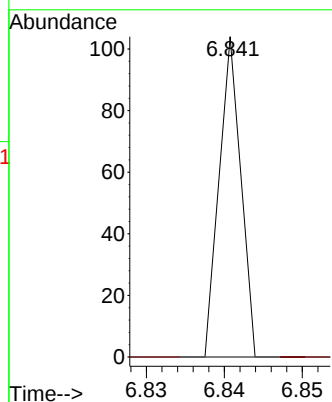
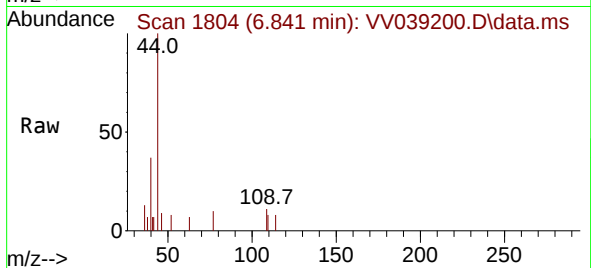




#58
2-Chloroethyl Vinyl ether
Concen: 9.626 ug/l
RT: 6.841 min Scan# 11
Delta R.T. 0.032 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

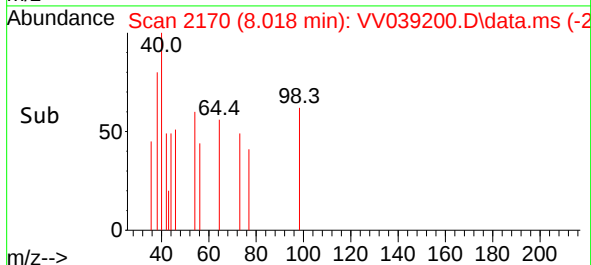
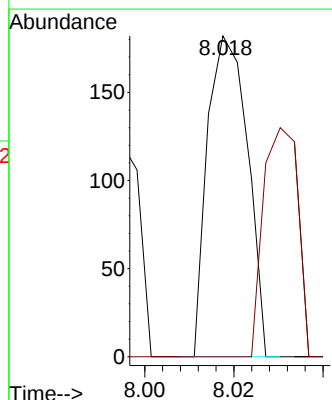
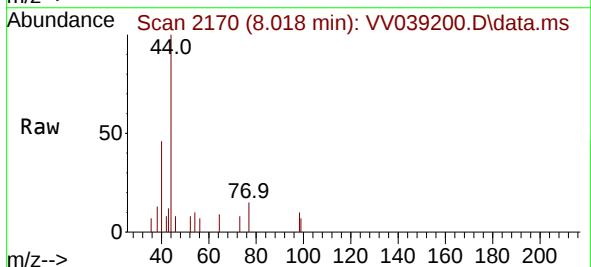
Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

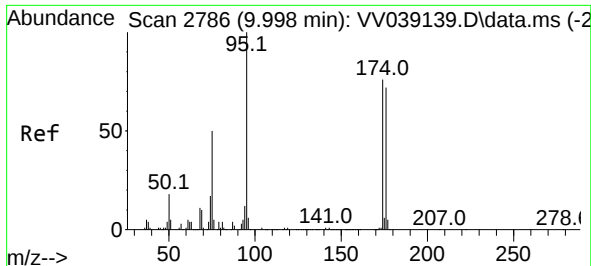
Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.338 ug/l
RT: 8.018 min Scan# 2170
Delta R.T. -0.041 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 43 Resp: 113
Ion Ratio Lower Upper
43 100
58 61.9 28.3 85.0

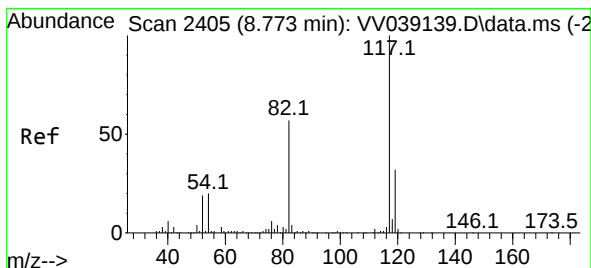
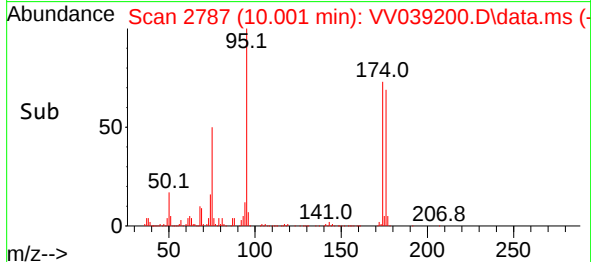
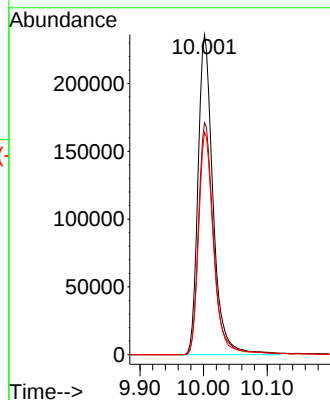
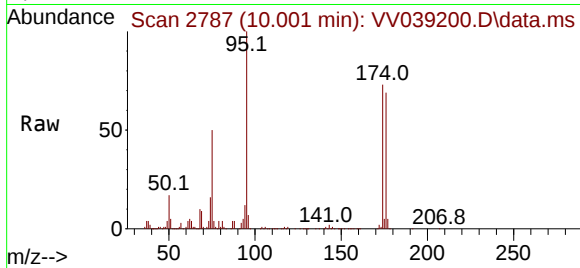




#62
4-Bromofluorobenzene
Concen: 45.722 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

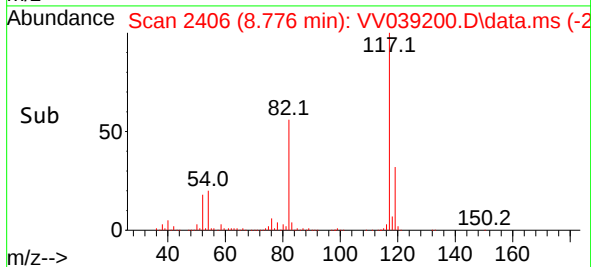
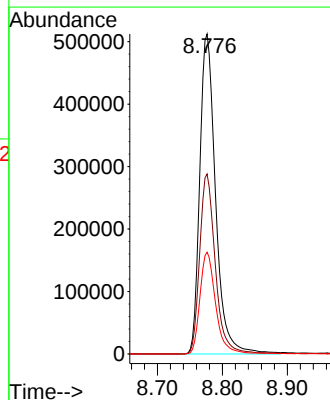
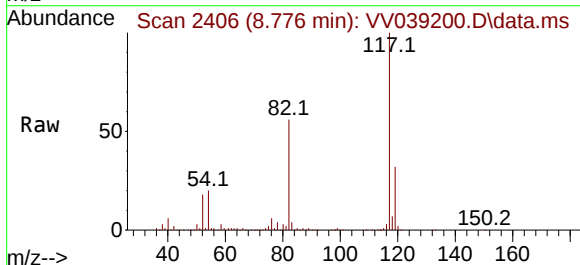
Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

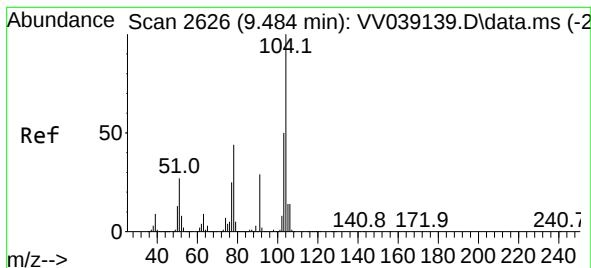
Tgt Ion: 95 Resp: 387045
Ion Ratio Lower Upper
95 100
174 72.4 0.0 150.4
176 69.0 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 117 Resp: 870759
Ion Ratio Lower Upper
117 100
82 56.2 45.4 68.2
119 31.8 25.6 38.4





#70

Styrene

Concen: 1.566 ug/l

RT: 9.535 min Scan# 2

Delta R.T. 0.051 min

Lab File: VV039200.D

Acq: 26 Sep 2025 10:23

Instrument :

MSVOA_V

ClientSampleId :

VV0926WBL01

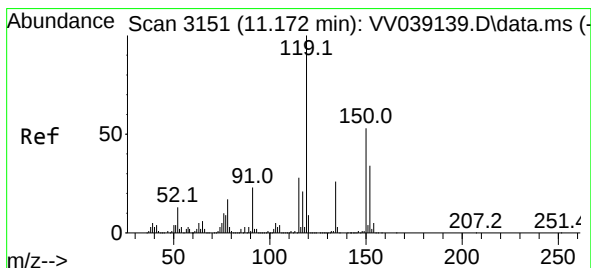
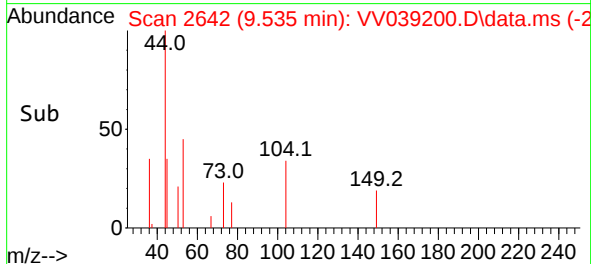
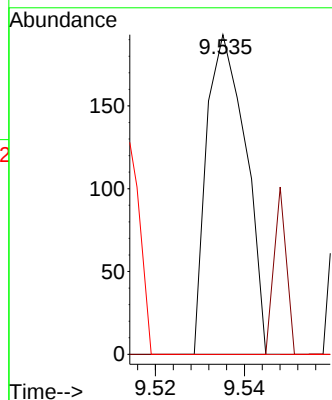
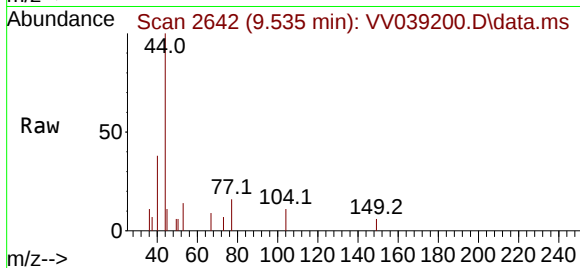
Tgt Ion:104 Resp: 117

Ion Ratio Lower Upper

104 100

78 16.2 39.8 59.6#

103 0.0 43.4 65.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VV039200.D

Acq: 26 Sep 2025 10:23

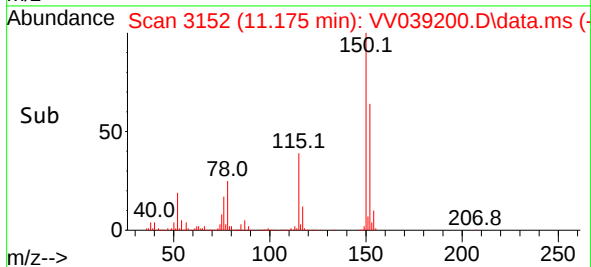
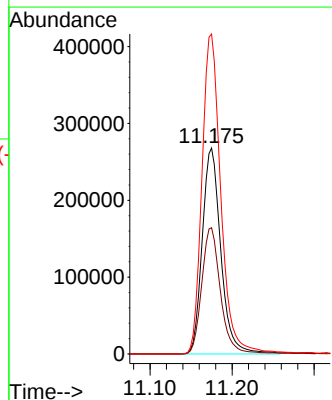
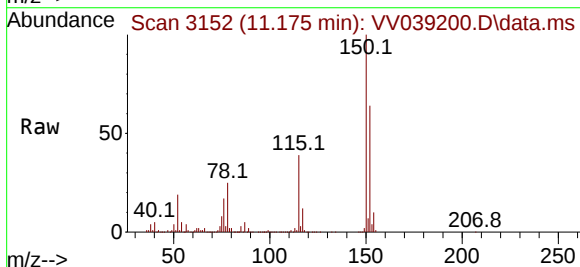
Tgt Ion:152 Resp: 422120

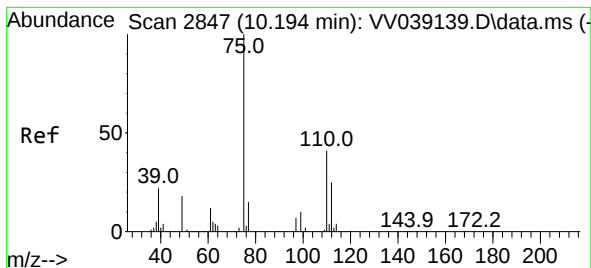
Ion Ratio Lower Upper

152 100

115 61.9 44.8 134.4

150 158.3 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 19.259 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039200.D

Acq: 26 Sep 2025 10:23

Instrument :

MSVOA_V

ClientSampleId :

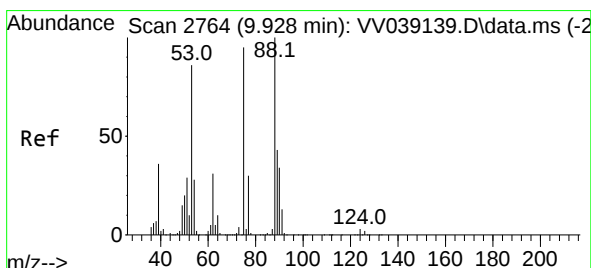
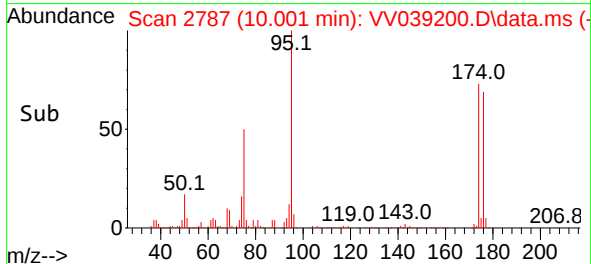
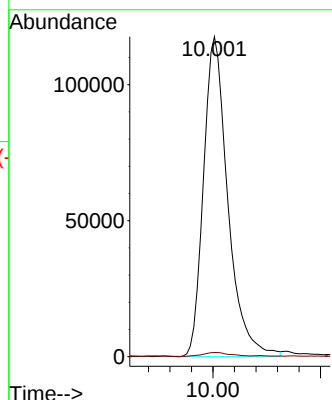
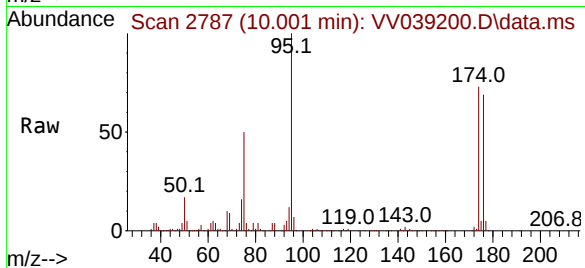
VV0926WBL01

Tgt Ion: 75 Resp: 185096

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 46.234 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039200.D

Acq: 26 Sep 2025 10:23

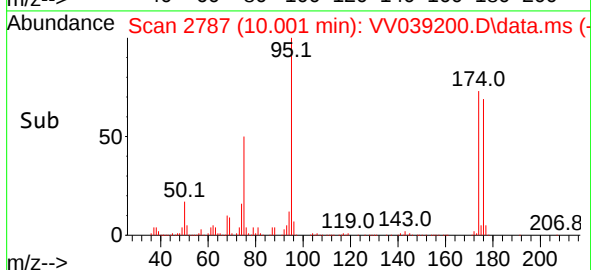
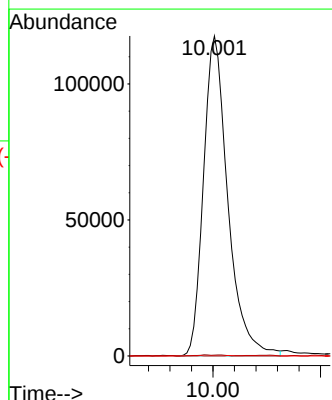
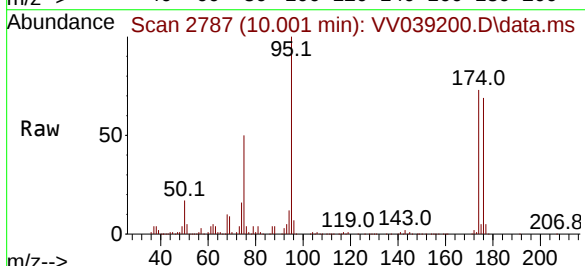
Tgt Ion: 75 Resp: 185096

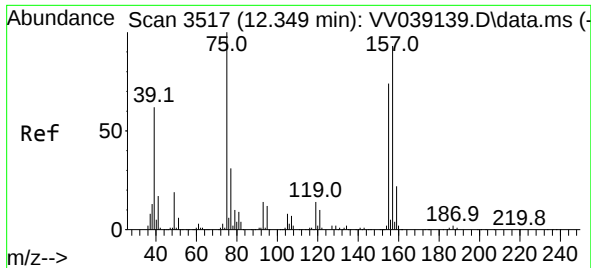
Ion Ratio Lower Upper

75 100

53 0.1 72.5 108.7#

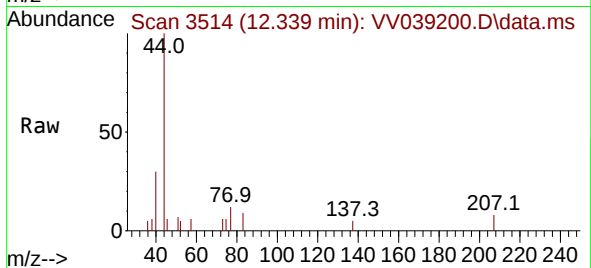
89 0.0 37.2 55.8#





#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.339 min Scan# 31
Delta R.T. -0.010 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01



Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

