

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120825\
 Data File : VW032602.D
 Acq On : 08 Dec 2025 17:19
 Operator : SY/MD
 Sample : Q3809-05
 Misc : 2.78g/5mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SW-4

Quant Time: Dec 09 02:22:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 04:04:32 2025
 Response via : Initial Calibration

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

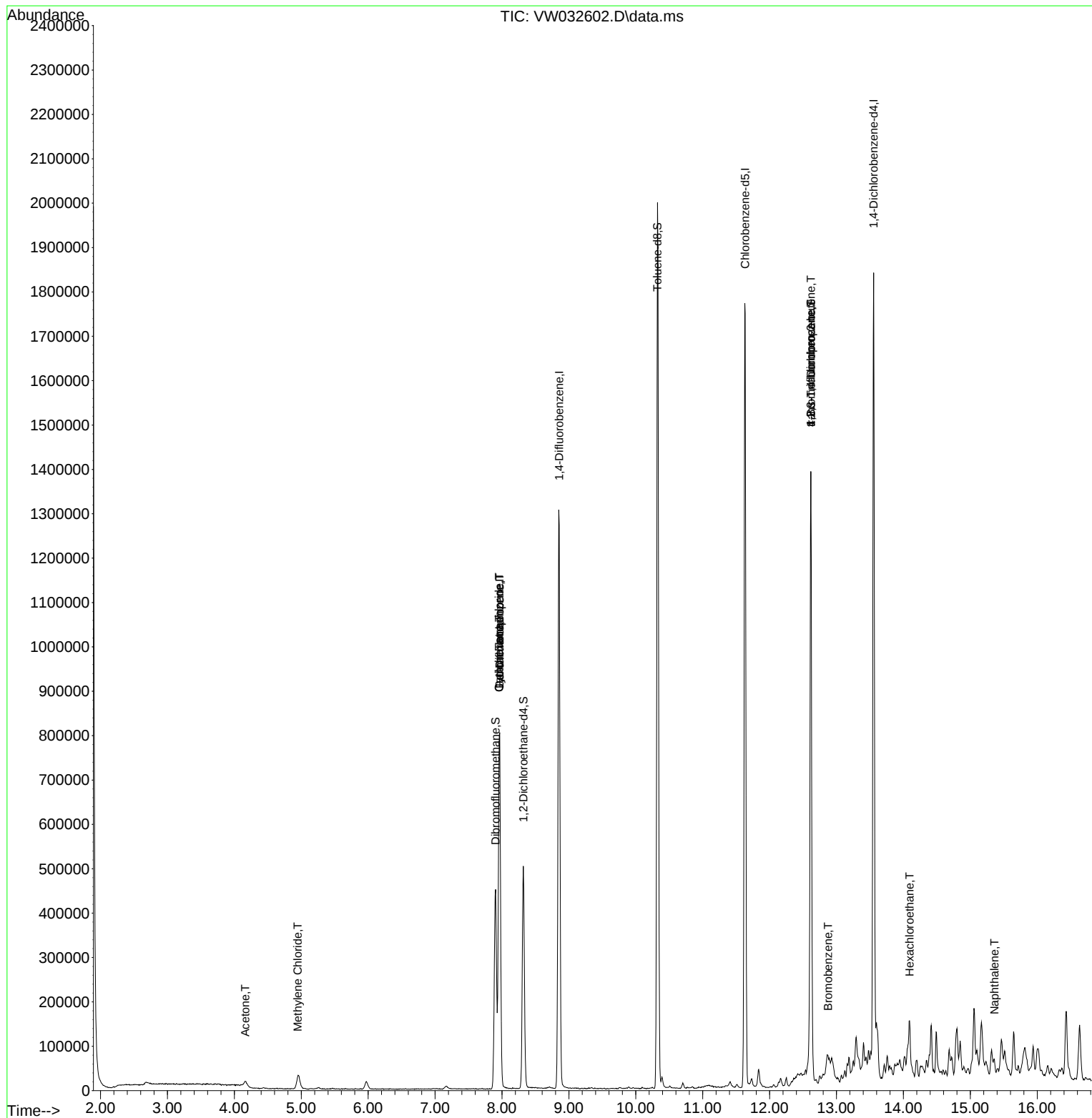
Internal Standards						
1) Pentafluorobenzene	7.965	168	573255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	1091564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	982600	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	447025	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	404377	47.400	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	94.800%		
35) Dibromofluoromethane	7.904	113	335631	46.724	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	93.440%		
50) Toluene-d8	10.325	98	1309531	48.448	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	96.900%		
62) 4-Bromofluorobenzene	12.617	95	500962	50.165	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	100.320%		
Target Compounds						
					Qvalue	
16) Acetone	4.161	43	16035	6.015	ug/l	99
20) Methylene Chloride	4.947	84	25775	2.704	ug/l	94
31) Cyclohexane	7.959	56	14843	1.085	ug/l #	1
36) 1,1-Dichloropropene	7.965	75	54733	4.995	ug/l #	50
38) Carbon Tetrachloride	7.959	117	63474	6.236	ug/l #	16
76) 1,2,3-Trichloropropane	12.617	75	252125	41.681	ug/l #	1
77) Bromobenzene	12.873	156	35661	4.549	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	252125	98.033	ug/l #	10
90) Hexachloroethane	14.092	117	5770	1.016	ug/l #	22
95) Naphthalene	15.360	128	28072	1.450	ug/l #	94

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

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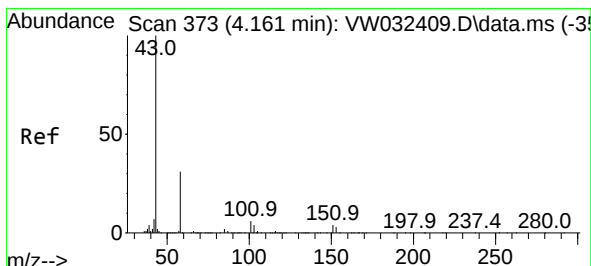
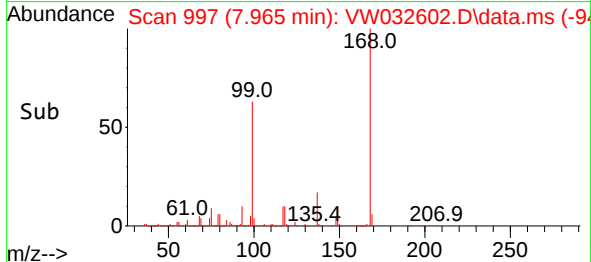
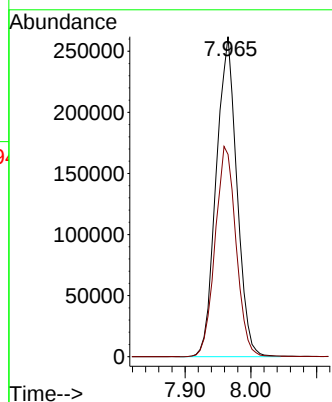
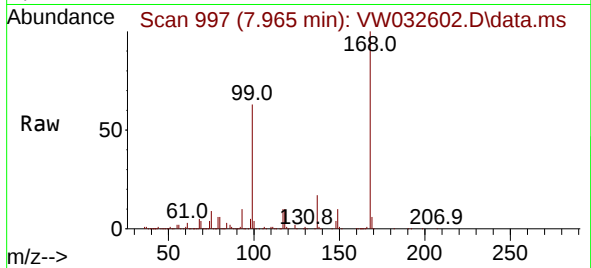




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

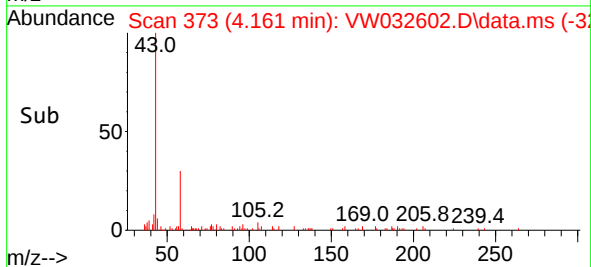
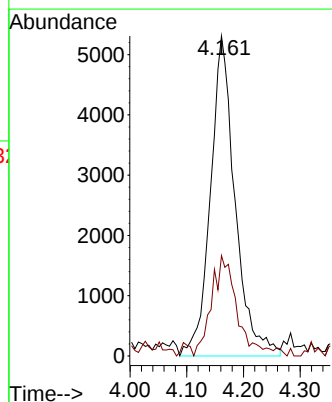
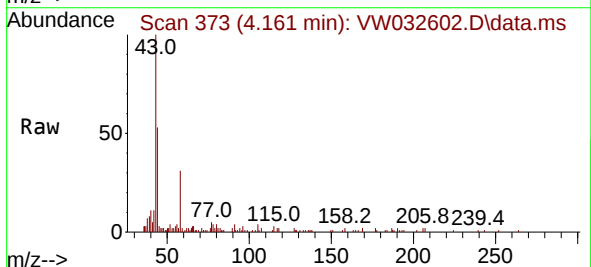
Instrument :
MSVOA_W
ClientSampleId :
SW-4

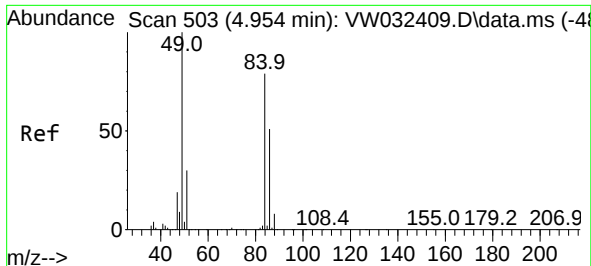
Tgt Ion:168 Resp: 573255
Ion Ratio Lower Upper
168 100
99 63.2 51.8 77.8



#16
Acetone
Concen: 6.015 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

Tgt Ion: 43 Resp: 16035
Ion Ratio Lower Upper
43 100
58 30.2 23.5 35.3

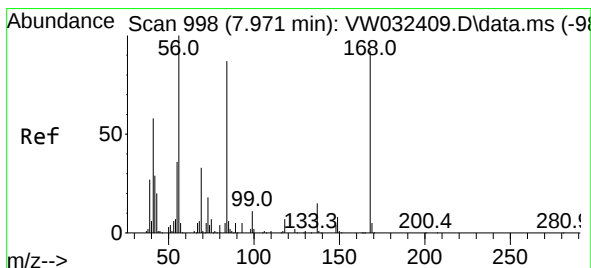
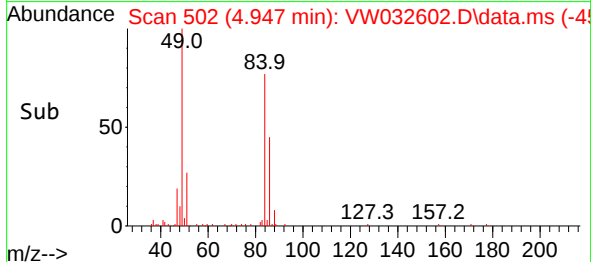
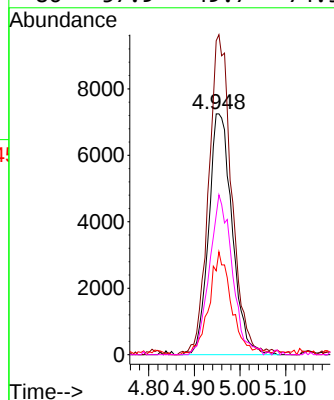
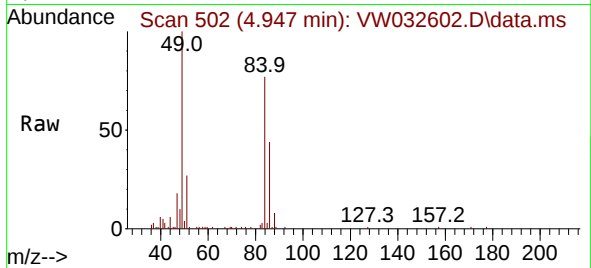




#20
Methylene Chloride
Concen: 2.704 ug/l
RT: 4.947 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

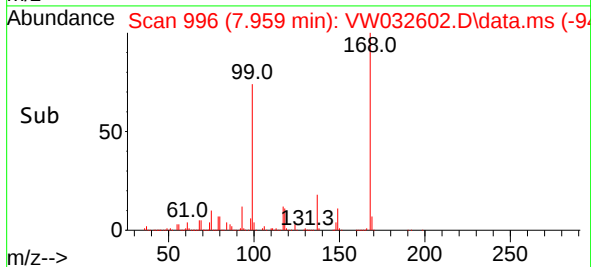
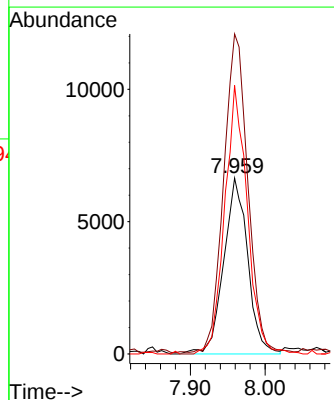
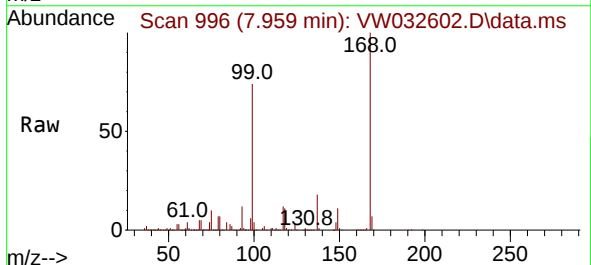
Instrument :
MSVOA_W
ClientSampleId :
SW-4

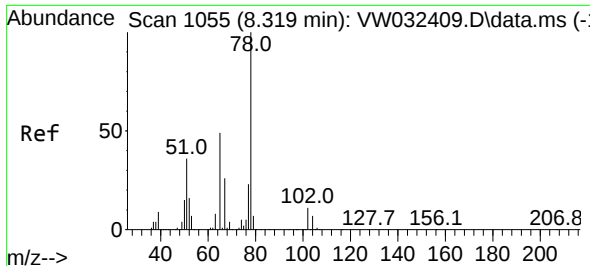
Tgt Ion:	84	Resp:	25775
Ion	Ratio	Lower	Upper
84	100		
49	129.4	107.6	161.4
51	34.8	33.9	50.9
86	57.9	49.7	74.5



#31
Cyclohexane
Concen: 1.085 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

Tgt Ion:	56	Resp:	14843
Ion	Ratio	Lower	Upper
56	100		
69	180.7	27.3	40.9#
84	152.7	67.5	101.3#

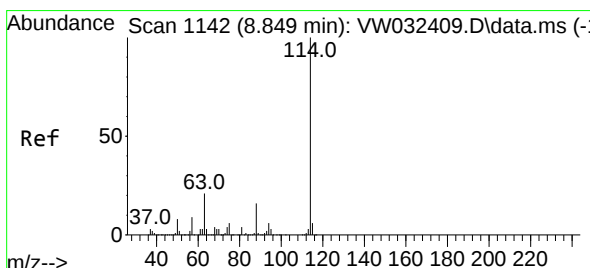
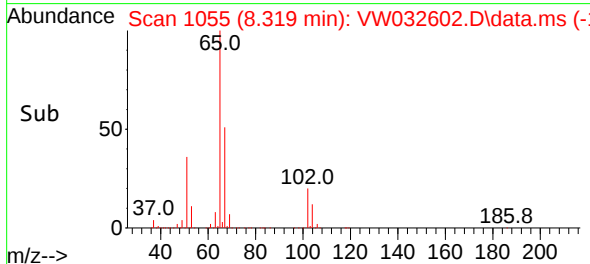
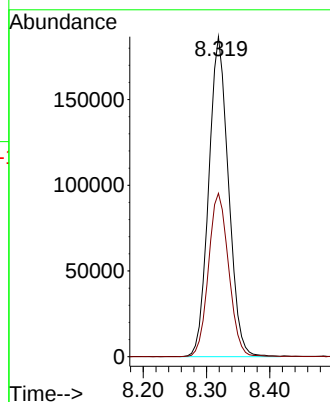
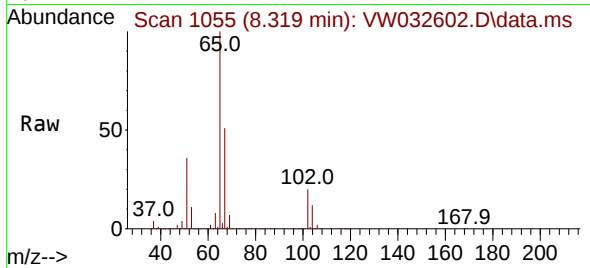




#33
 1,2-Dichloroethane-d4
 Concen: 47.400 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: VW032602.D
 Acq: 08 Dec 2025 17:19

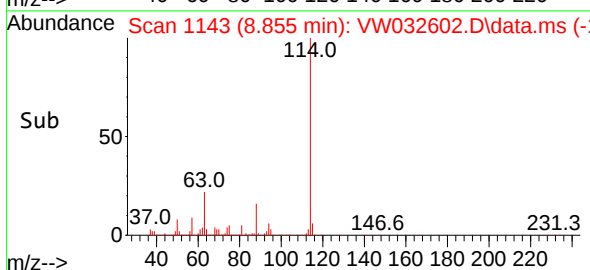
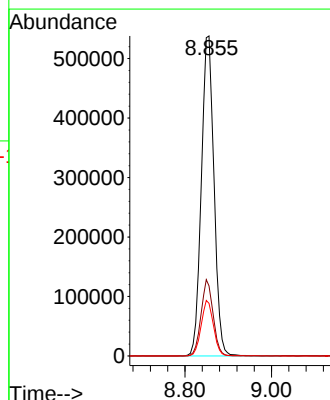
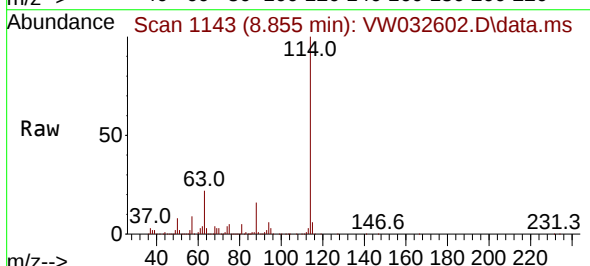
Instrument :
 MSVOA_W
 ClientSampleId :
 SW-4

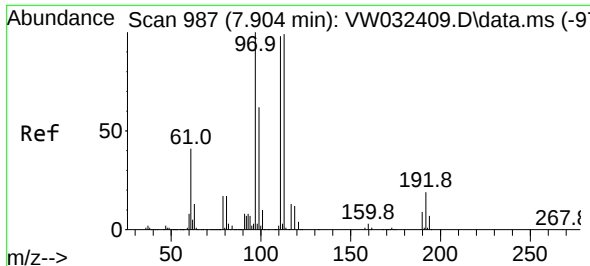
Tgt Ion: 65 Resp: 404377
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 108.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. -0.000 min
 Lab File: VW032602.D
 Acq: 08 Dec 2025 17:19

Tgt Ion: 114 Resp: 1091564
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 40.6
 88 16.5 0.0 31.2

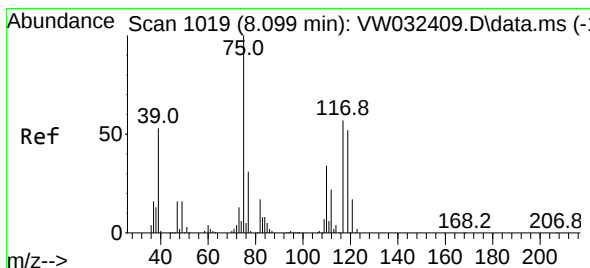
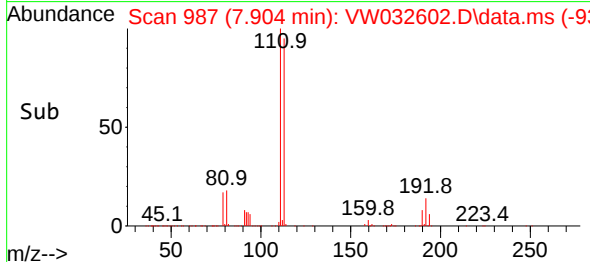
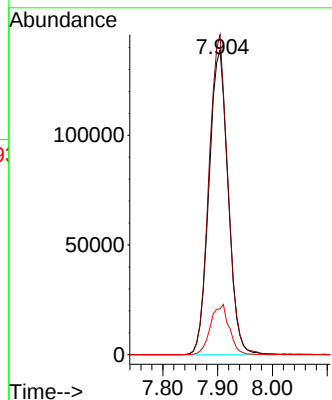
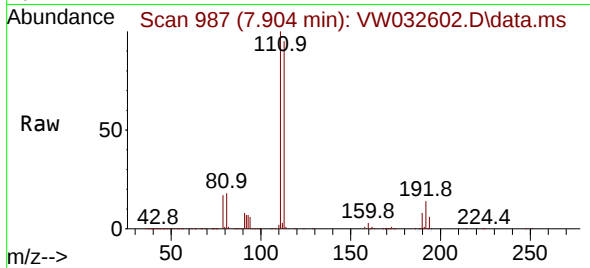




#35
Dibromofluoromethane
Concen: 46.724 ug/l
RT: 7.904 min Scan# 91
Delta R.T. -0.000 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

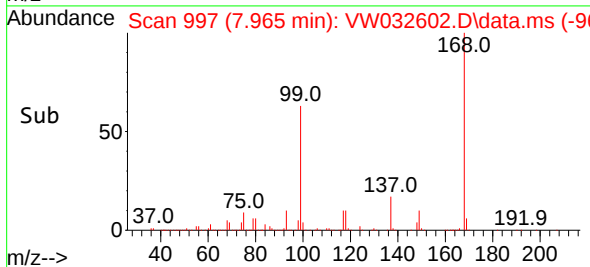
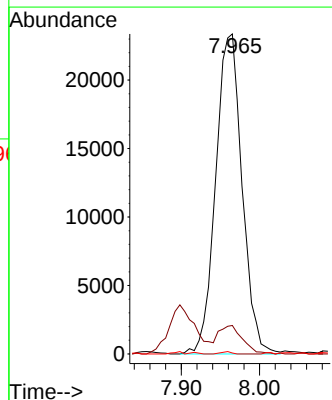
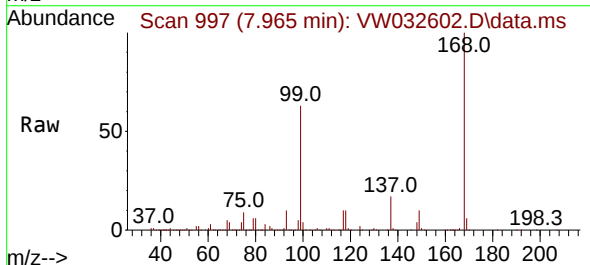
Instrument :
MSVOA_W
ClientSampleId :
SW-4

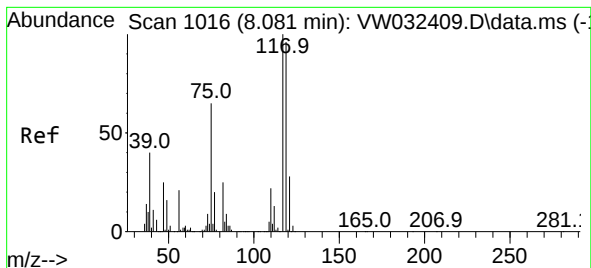
Tgt Ion:113 Resp: 335631
Ion Ratio Lower Upper
113 100
111 104.0 83.4 125.0
192 16.1 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.995 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.128 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

Tgt Ion: 75 Resp: 54733
Ion Ratio Lower Upper
75 100
110 8.0 16.9 50.6#
77 0.3 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.236 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.122 min

Lab File: VW032602.D

Acq: 08 Dec 2025 17:19

Instrument :

MSVOA_W

ClientSampleId :

SW-4

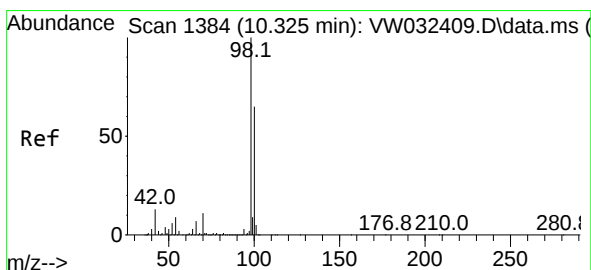
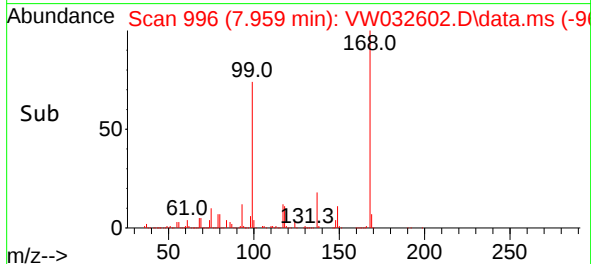
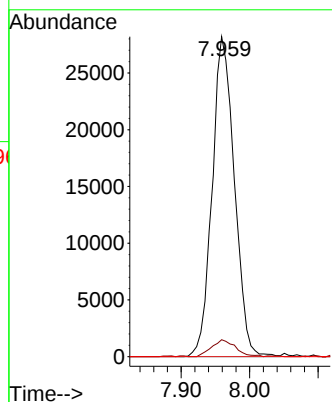
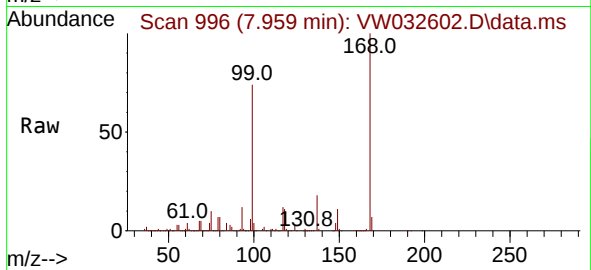
Tgt Ion:117 Resp: 63474

Ion Ratio Lower Upper

117 100

119 5.1 76.9 115.3#

121 0.0 25.4 38.2#



#50

Toluene-d8

Concen: 48.448 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VW032602.D

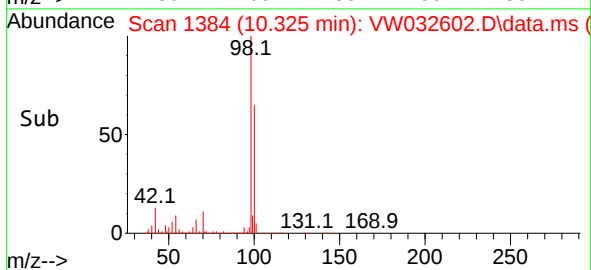
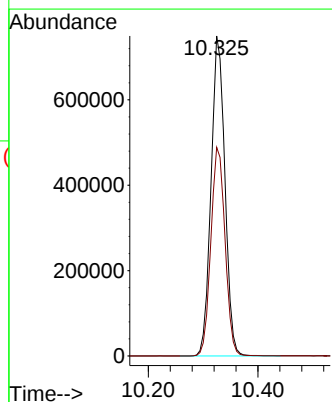
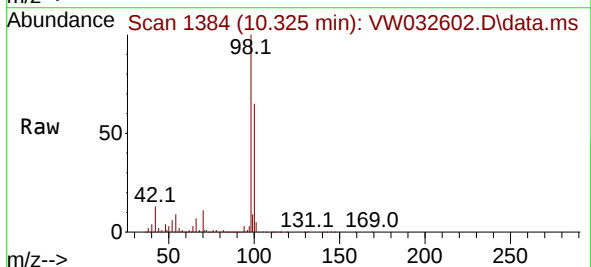
Acq: 08 Dec 2025 17:19

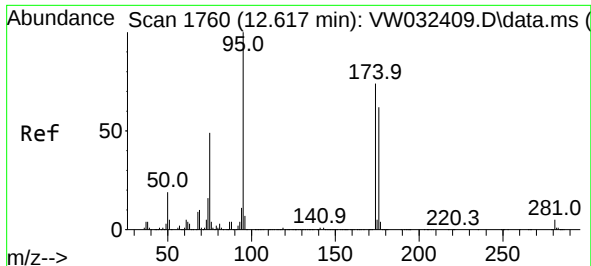
Tgt Ion: 98 Resp: 1309531

Ion Ratio Lower Upper

98 100

100 66.9 54.7 82.1

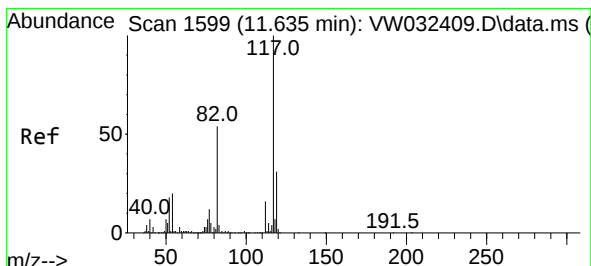
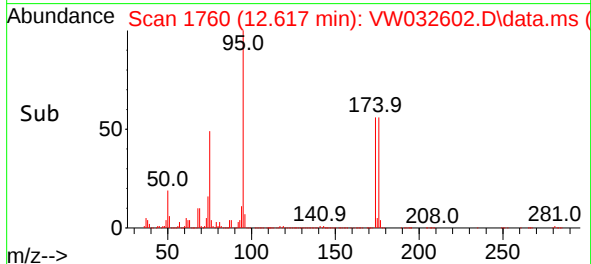
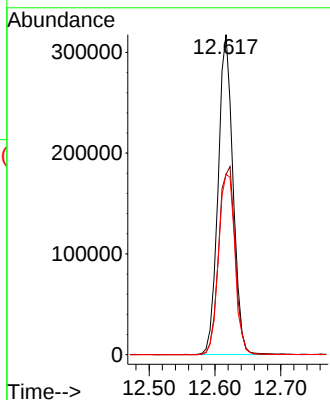
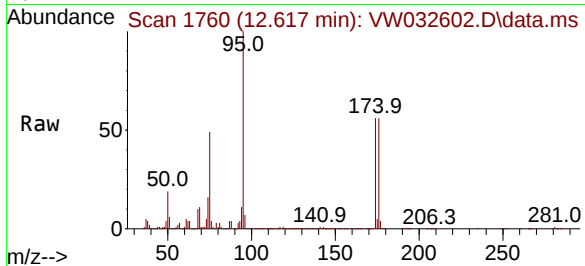




#62
4-Bromofluorobenzene
Concen: 50.165 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

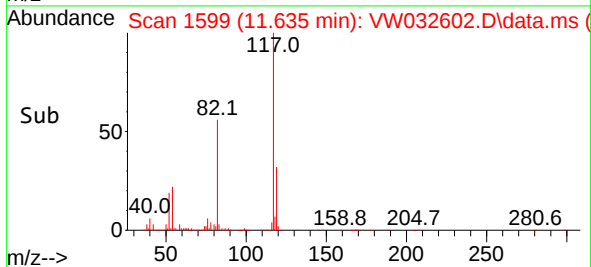
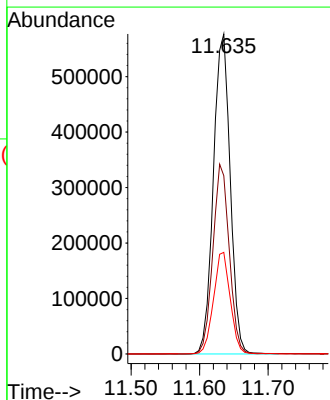
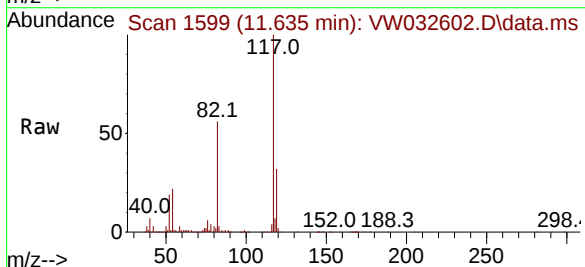
Instrument :
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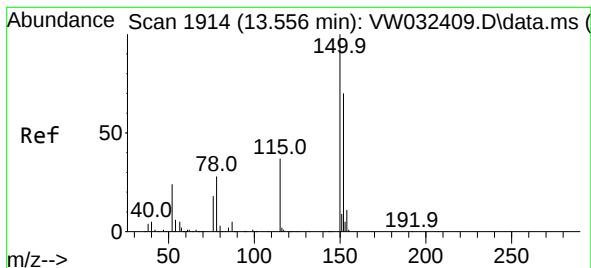
Tgt Ion: 95 Resp: 500962
Ion Ratio Lower Upper
95 100
174 64.8 0.0 141.2
176 61.9 0.0 130.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VW032602.D
Acq: 08 Dec 2025 17:19

Tgt Ion: 117 Resp: 982600
Ion Ratio Lower Upper
117 100
82 55.7 45.9 68.9
119 31.7 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032602.D

Acq: 08 Dec 2025 17:19

Instrument :

MSVOA_W

ClientSampleId :

SW-4

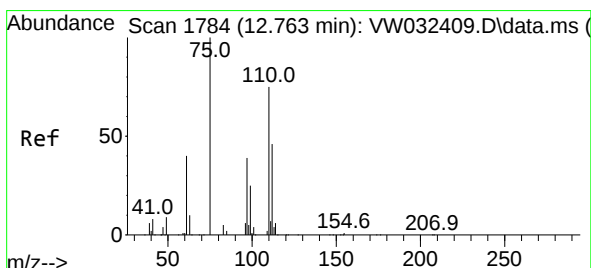
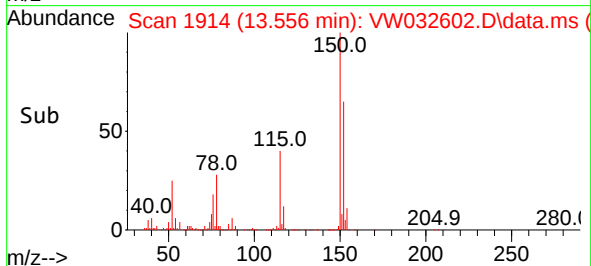
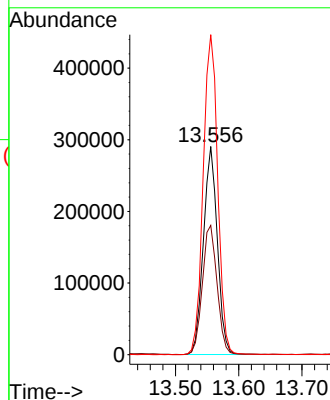
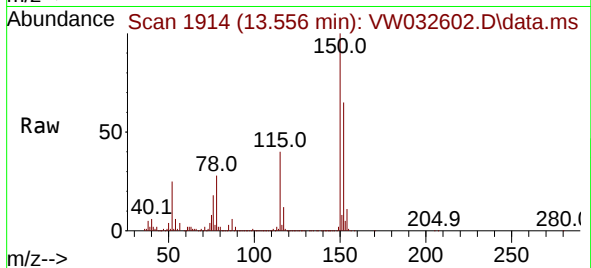
Tgt Ion:152 Resp: 447025

Ion Ratio Lower Upper

152 100

115 65.1 31.1 93.3

150 160.1 0.0 351.2



#76

1,2,3-Trichloropropane

Concen: 41.681 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.147 min

Lab File: VW032602.D

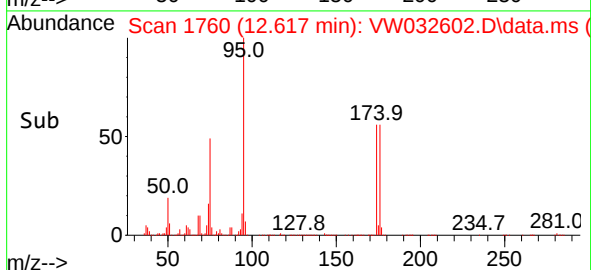
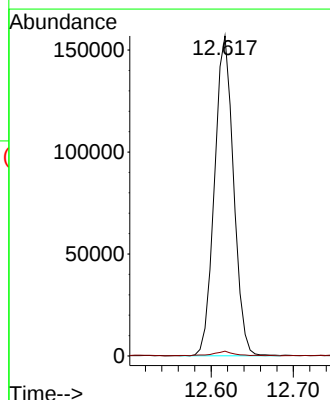
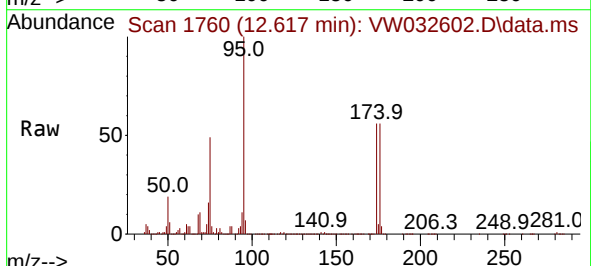
Acq: 08 Dec 2025 17:19

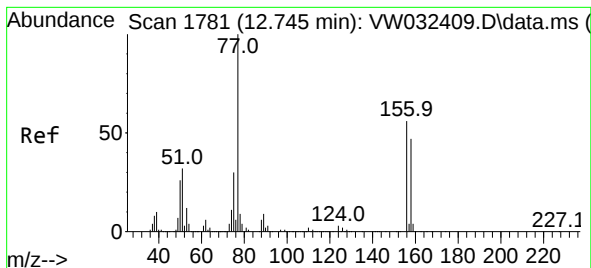
Tgt Ion: 75 Resp: 252125

Ion Ratio Lower Upper

75 100

77 1.5 148.2 444.4#





#77

Bromobenzene

Concen: 4.549 ug/l

RT: 12.873 min Scan# 11

Delta R.T. 0.128 min

Lab File: VW032602.D

Acq: 08 Dec 2025 17:19

Instrument :

MSVOA_W

ClientSampleId :

SW-4

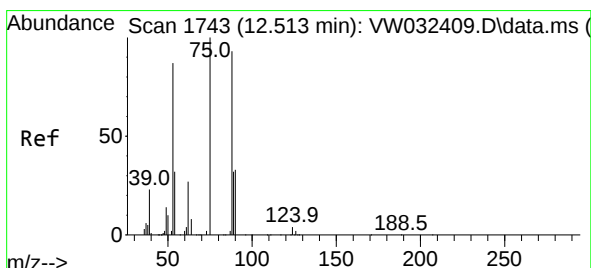
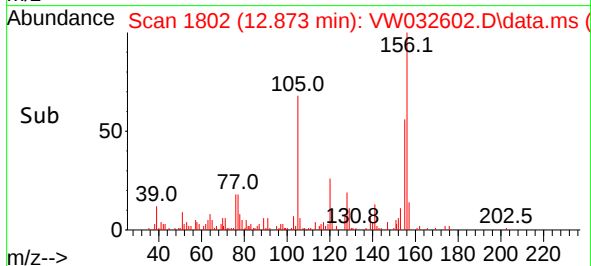
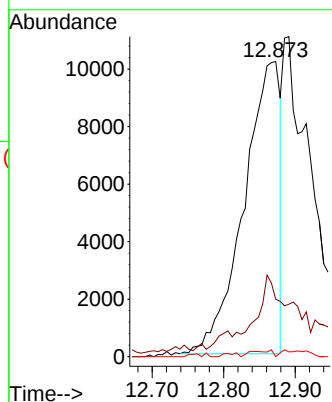
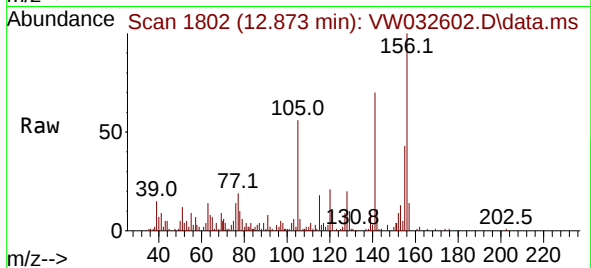
Tgt Ion:156 Resp: 35661

Ion Ratio Lower Upper

156 100

77 15.0 115.9 347.7#

158 0.0 50.7 152.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 98.033 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.103 min

Lab File: VW032602.D

Acq: 08 Dec 2025 17:19

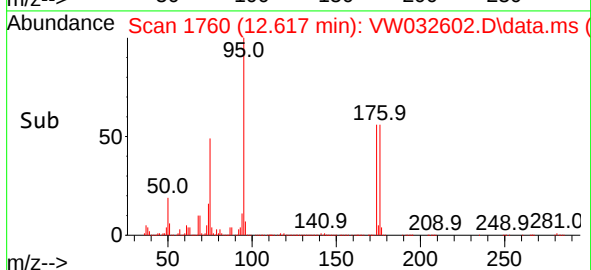
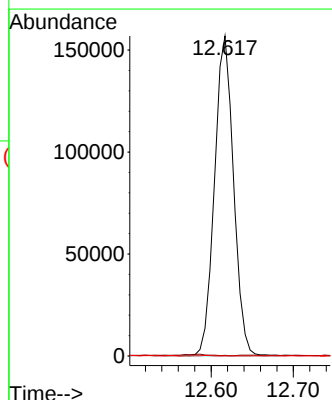
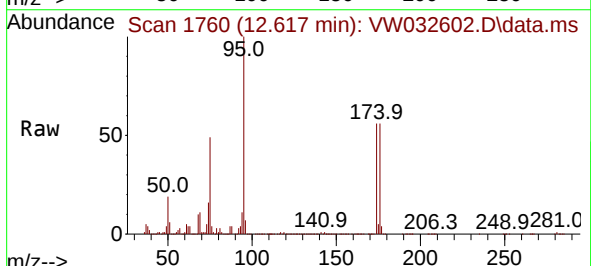
Tgt Ion: 75 Resp: 252125

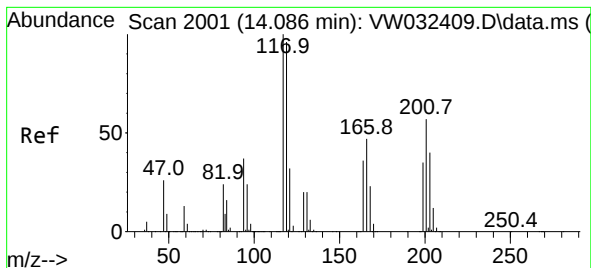
Ion Ratio Lower Upper

75 100

53 0.0 80.8 121.2#

89 0.0 31.4 47.2#





#90

Hexachloroethane

Concen: 1.016 ug/l

RT: 14.092 min Scan# 2001

Delta R.T. 0.006 min

Lab File: VW032602.D

Acq: 08 Dec 2025 17:19

Instrument :

MSVOA_W

ClientSampleId :

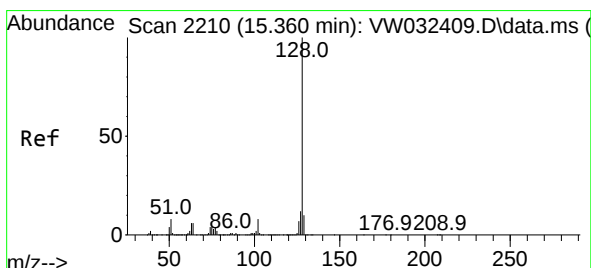
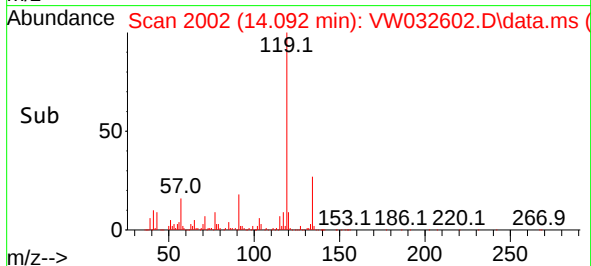
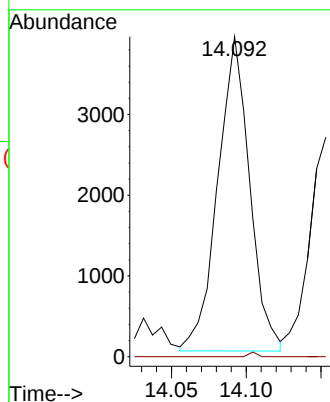
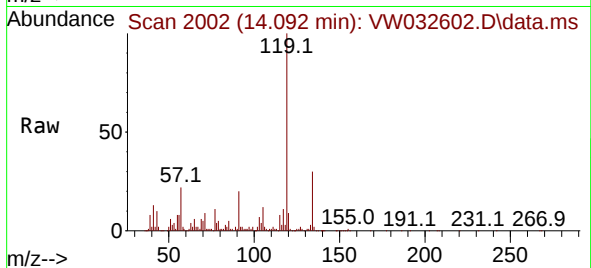
SW-4

Tgt Ion:117 Resp: 5770

Ion Ratio Lower Upper

117 100

201 0.4 29.5 88.6#



#95

Naphthalene

Concen: 1.450 ug/l

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW032602.D

Acq: 08 Dec 2025 17:19

Tgt Ion:128 Resp: 28072

Ion Ratio Lower Upper

128 100

127 11.0 10.6 15.8

129 8.7 8.9 13.3#

