

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080625\
 Data File : VW032030.D
 Acq On : 06 Aug 2025 15:50
 Operator : SY/MD
 Sample : Q2788-01
 Misc : 5.11g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-01-08062025

Quant Time: Aug 07 02:20:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

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

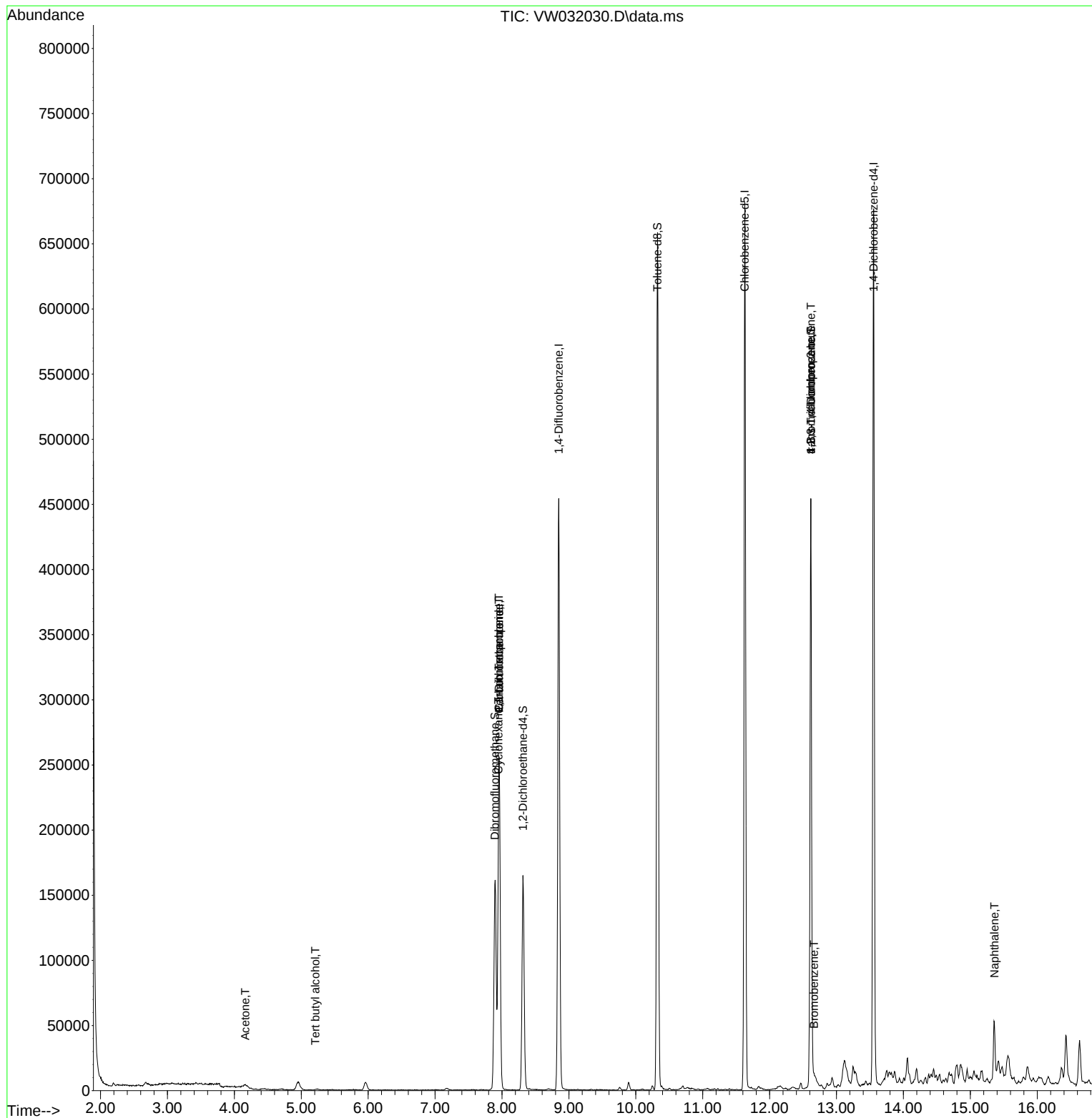
Internal Standards						
1) Pentafluorobenzene	7.959	168	176087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	379643	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	358714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	167398	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	134845	50.622	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.240%			
35) Dibromofluoromethane	7.892	113	122345	47.426	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.860%			
50) Toluene-d8	10.324	98	449300	46.019	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 92.040%			
62) 4-Bromofluorobenzene	12.617	95	155347	41.437	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 82.880%			
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.210	59	166	1.060	ug/l #	72
13) Acrolein	3.941	56	73	Below Cal	#	14
16) Acetone	4.161	43	2948	4.664	ug/l #	78
20) Methylene Chloride	4.960	84	5794	Below Cal		91
31) Cyclohexane	7.947	56	4537	1.111	ug/l #	14
36) 1,1-Dichloropropene	7.953	75	17217	4.346	ug/l #	44
38) Carbon Tetrachloride	7.953	117	21312	5.605	ug/l #	18
76) 1,2,3-Trichloropropane	12.617	75	82381	35.645	ug/l #	100
77) Bromobenzene	12.665	156	7718	2.456	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	82381	82.293	ug/l #	8
95) Naphthalene	15.360	128	39314	4.574	ug/l	97

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

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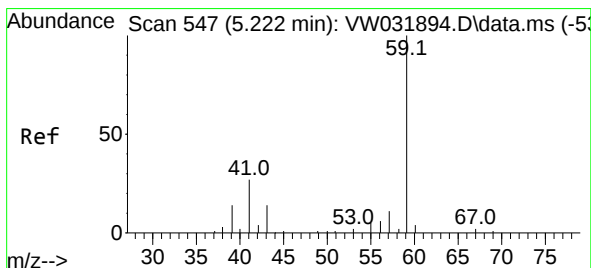
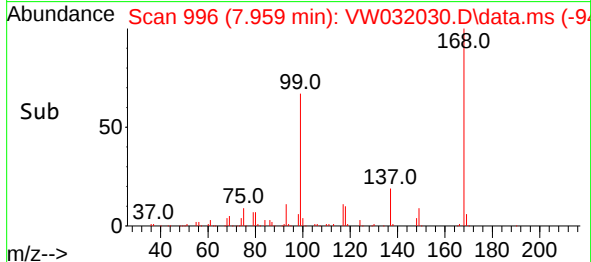
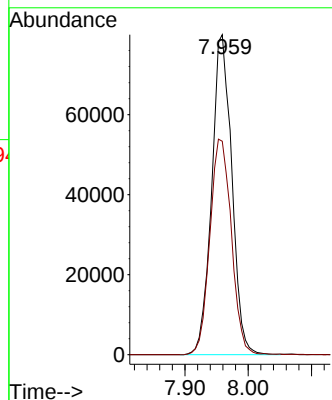
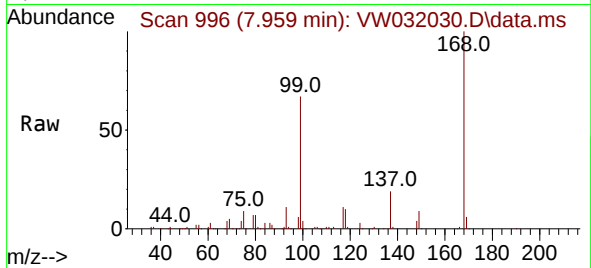




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

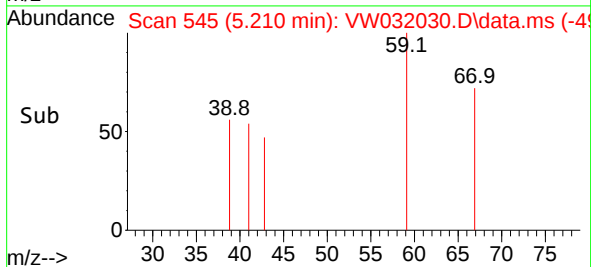
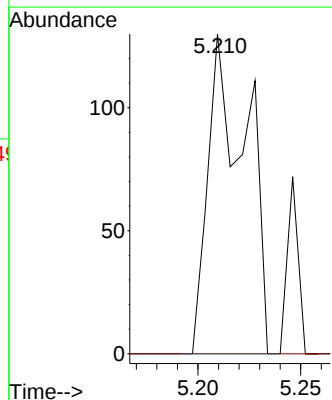
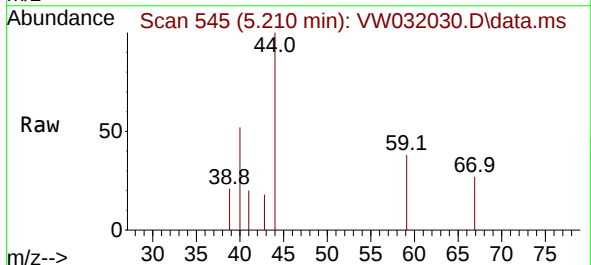
Instrument :
MSVOA_W
ClientSampleId :
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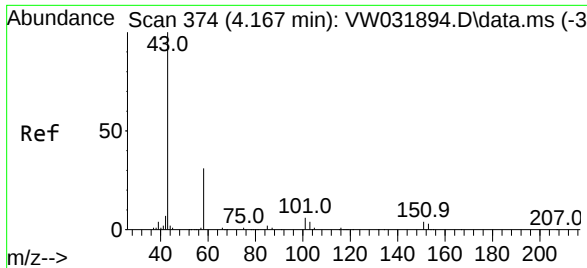
Tgt Ion:168 Resp: 176087
Ion Ratio Lower Upper
168 100
99 66.7 48.2 72.2



#11
Tert butyl alcohol
Concen: 1.060 ug/l
RT: 5.210 min Scan# 545
Delta R.T. -0.012 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Tgt Ion: 59 Resp: 166
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

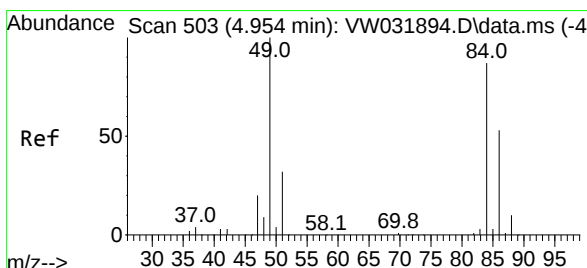
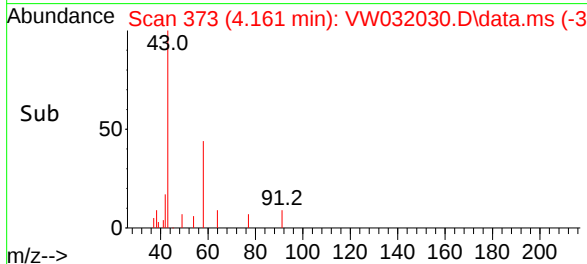
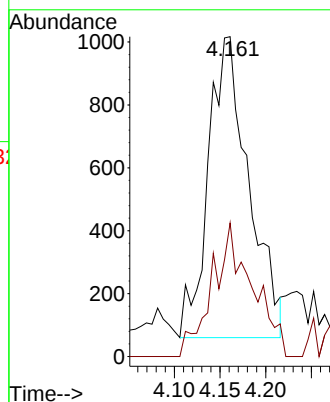
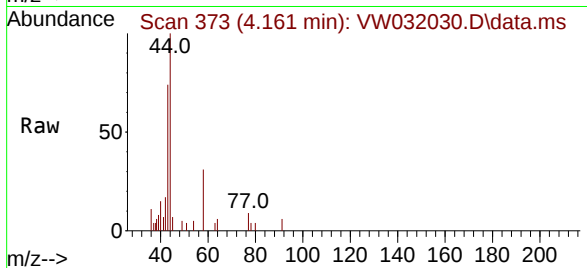




#16
Acetone
Concen: 4.664 ug/l
RT: 4.161 min Scan# 31
Delta R.T. -0.006 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

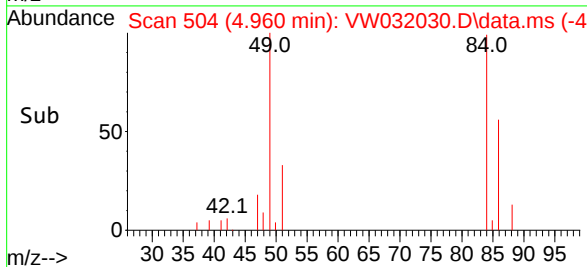
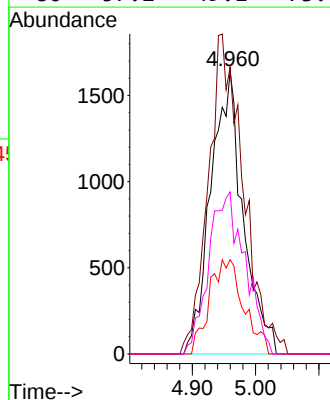
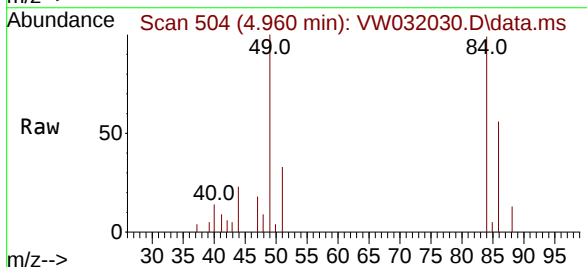
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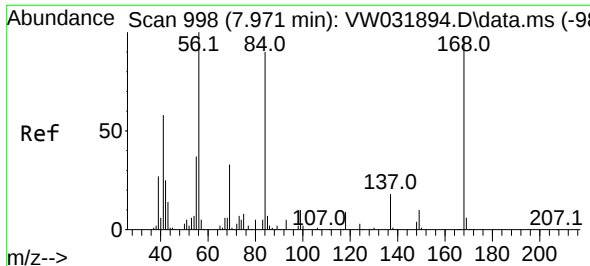
Tgt Ion: 43 Resp: 2948
Ion Ratio Lower Upper
43 100
58 44.4 25.5 38.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.960 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Tgt Ion: 84 Resp: 5794
Ion Ratio Lower Upper
84 100
49 101.3 91.9 137.9
51 33.3 29.0 43.6
86 57.2 49.1 73.7

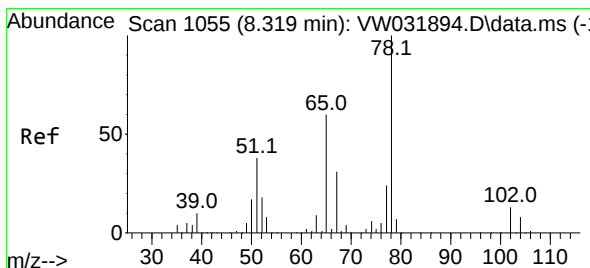
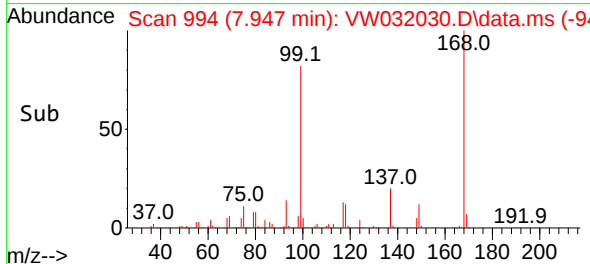
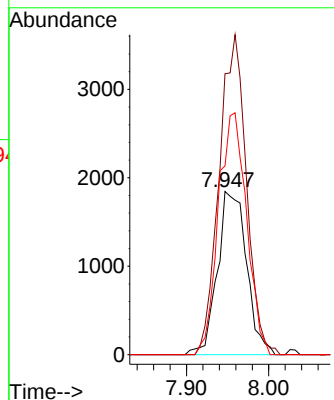
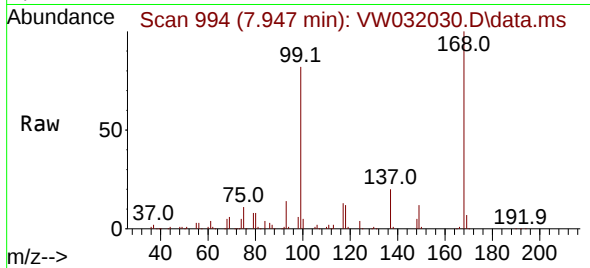




#31
Cyclohexane
Concen: 1.111 ug/l
RT: 7.947 min Scan# 998
Delta R.T. -0.025 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

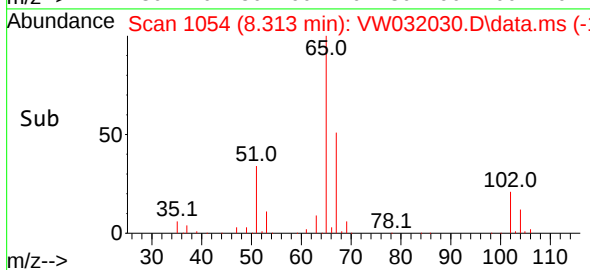
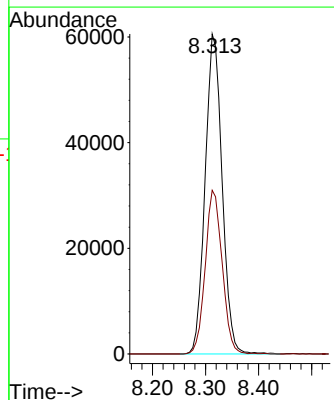
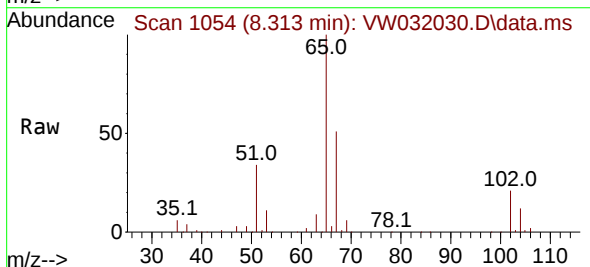
Instrument :
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ClientSampleId :
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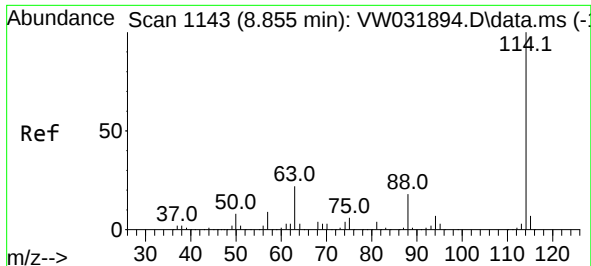
Tgt Ion: 56 Resp: 4537
Ion Ratio Lower Upper
56 100
69 172.1 26.7 40.1#
84 115.7 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 50.622 ug/l
RT: 8.313 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Tgt Ion: 65 Resp: 134845
Ion Ratio Lower Upper
65 100
67 51.0 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VW032030.D

Acq: 06 Aug 2025 15:50

Instrument :

MSVOA_W

ClientSampleId :

OK-01-08062025

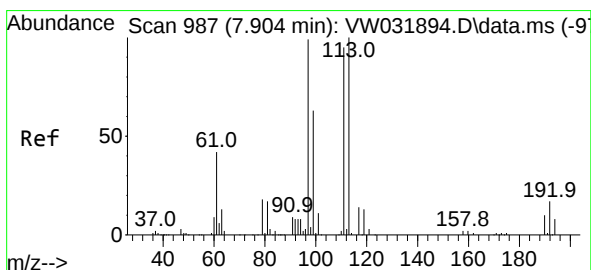
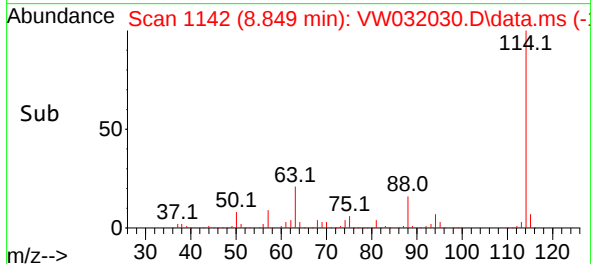
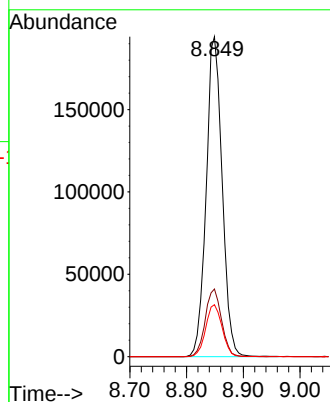
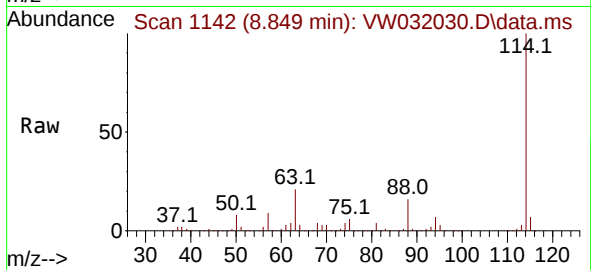
Tgt Ion:114 Resp: 379643

Ion Ratio Lower Upper

114 100

63 21.2 0.0 44.2

88 16.2 0.0 35.6



#35

Dibromofluoromethane

Concen: 47.426 ug/l

RT: 7.892 min Scan# 985

Delta R.T. -0.012 min

Lab File: VW032030.D

Acq: 06 Aug 2025 15:50

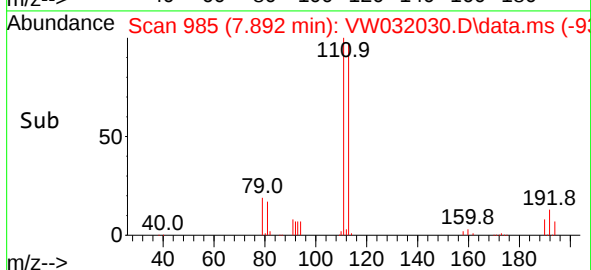
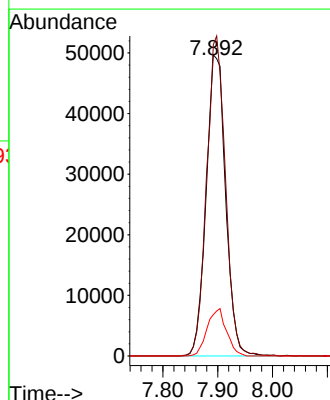
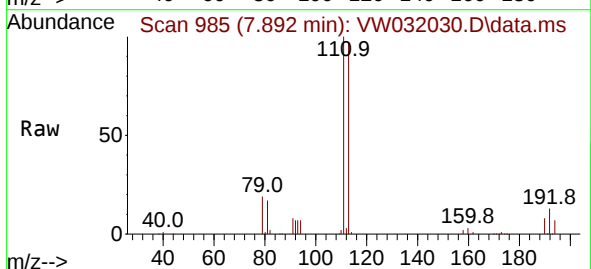
Tgt Ion:113 Resp: 122345

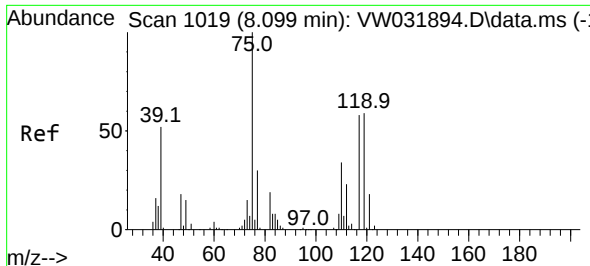
Ion Ratio Lower Upper

113 100

111 103.0 79.9 119.9

192 15.6 12.6 19.0

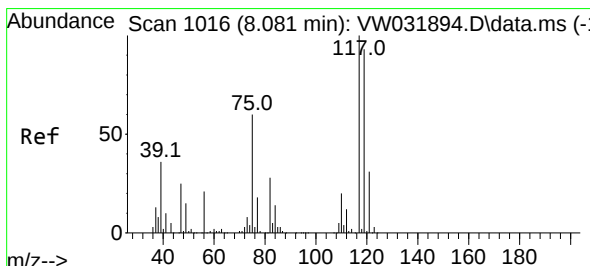
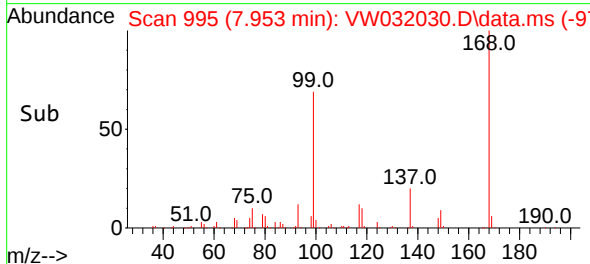
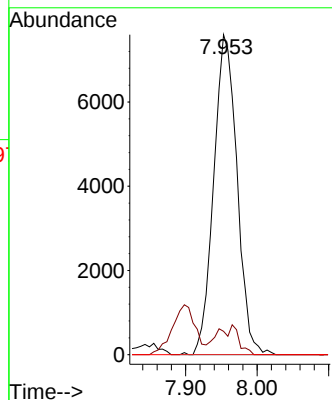
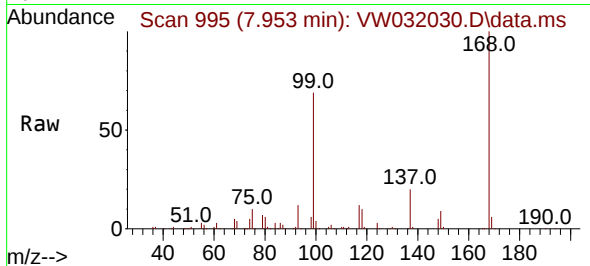




#36
 1,1-Dichloropropene
 Concen: 4.346 ug/l
 RT: 7.953 min Scan# 995
 Delta R.T. -0.146 min
 Lab File: VW032030.D
 Acq: 06 Aug 2025 15:50

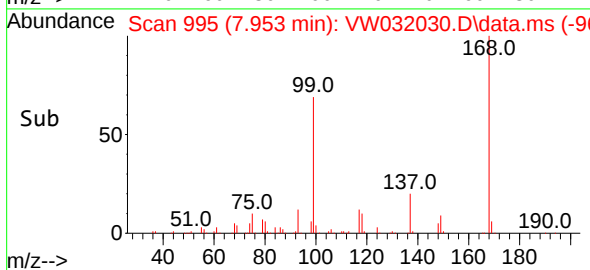
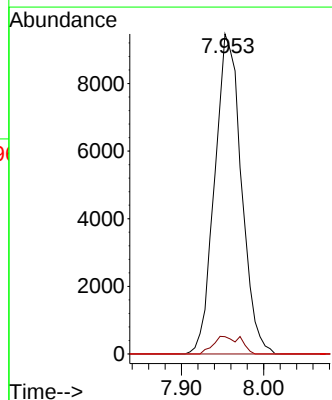
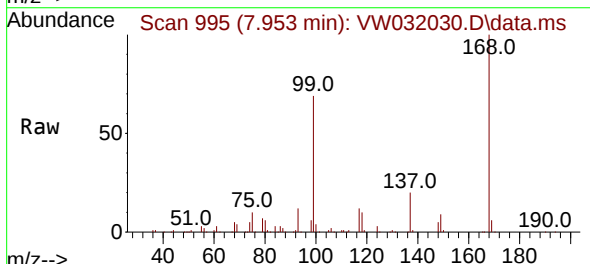
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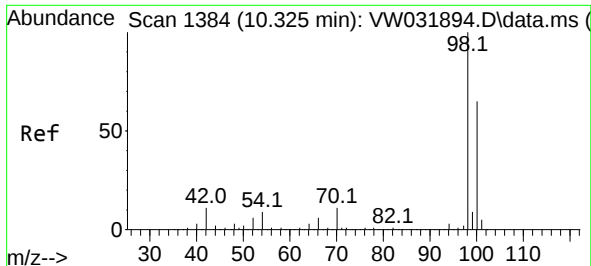
Tgt Ion: 75 Resp: 17217
 Ion Ratio Lower Upper
 75 100
 110 2.5 17.0 50.9#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.605 ug/l
 RT: 7.953 min Scan# 995
 Delta R.T. -0.128 min
 Lab File: VW032030.D
 Acq: 06 Aug 2025 15:50

Tgt Ion: 117 Resp: 21312
 Ion Ratio Lower Upper
 117 100
 119 5.4 74.3 111.5#
 121 0.0 24.6 37.0#

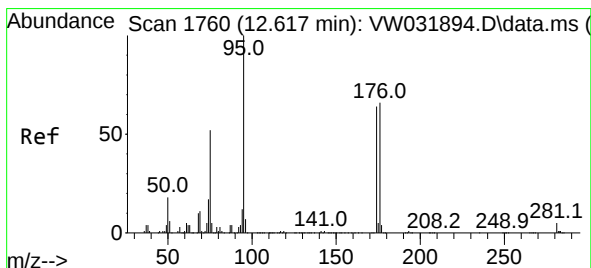
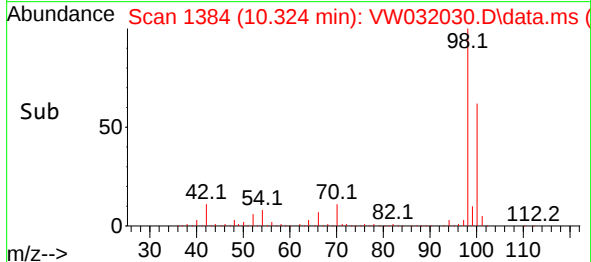
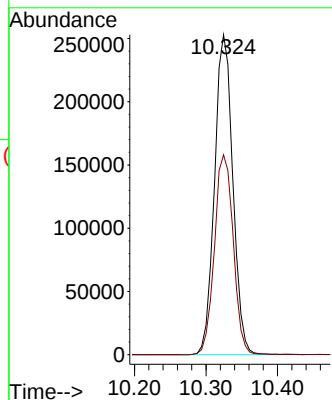
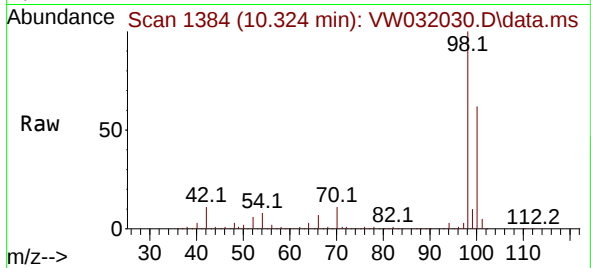




#50
Toluene-d8
Concen: 46.019 ug/l
RT: 10.324 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

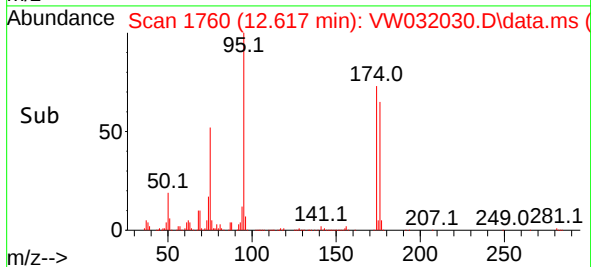
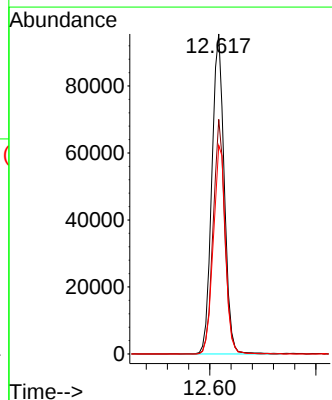
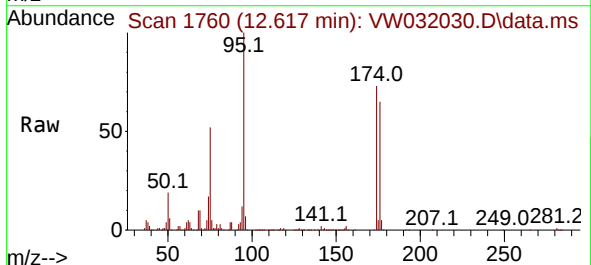
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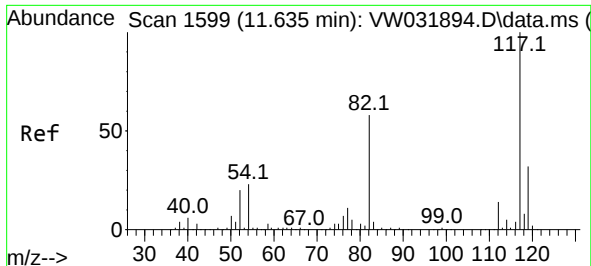
Tgt Ion: 98 Resp: 449300
Ion Ratio Lower Upper
98 100
100 64.2 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 41.437 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Tgt Ion: 95 Resp: 155347
Ion Ratio Lower Upper
95 100
174 68.9 0.0 129.8
176 63.8 0.0 130.4

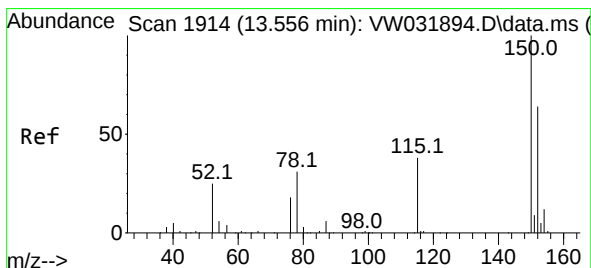
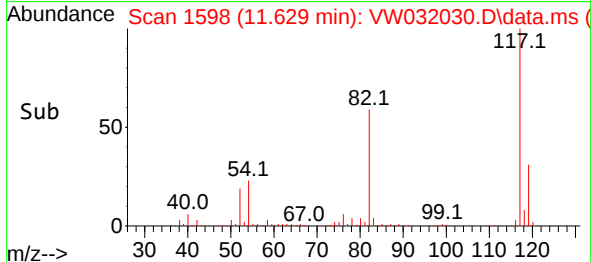
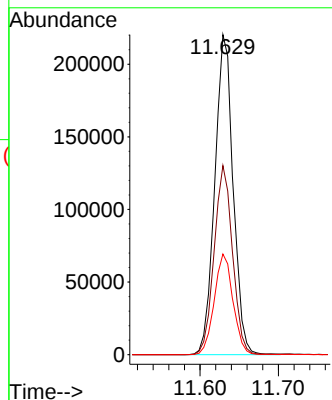
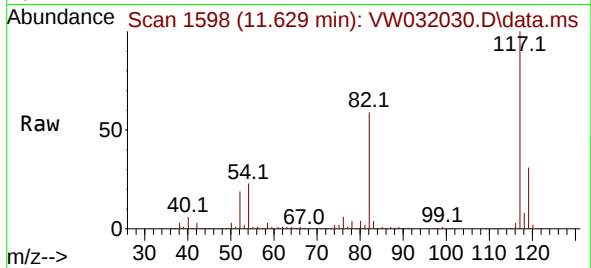




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

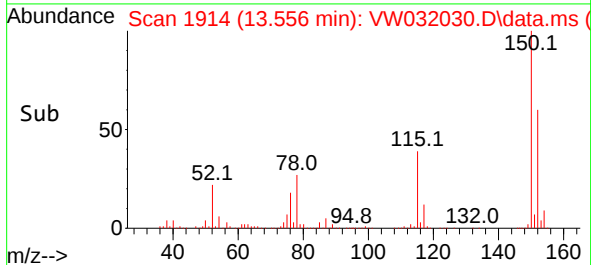
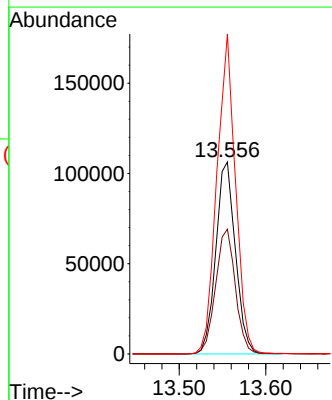
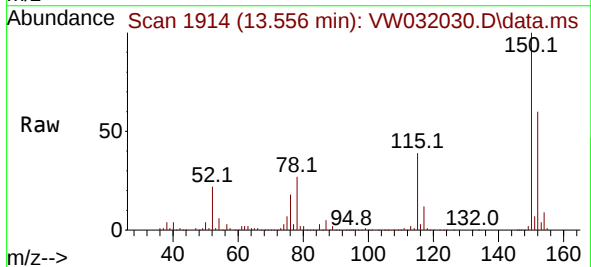
Instrument :
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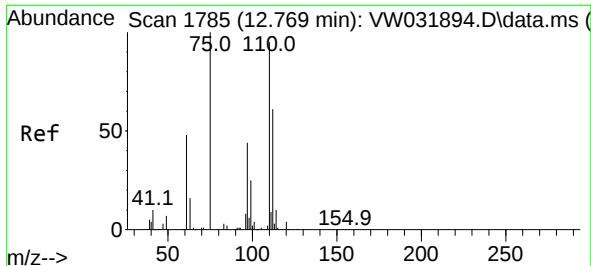
Tgt Ion:117 Resp: 358714
Ion Ratio Lower Upper
117 100
82 59.1 46.5 69.7
119 31.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Tgt Ion:152 Resp: 167398
Ion Ratio Lower Upper
152 100
115 65.6 33.4 100.1
150 158.3 0.0 352.2

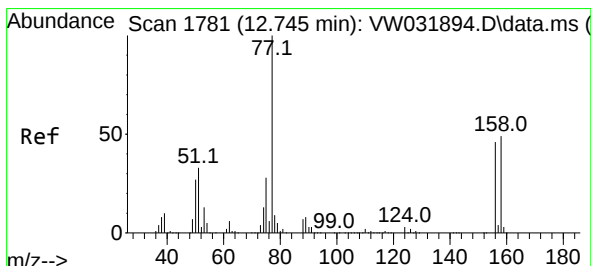
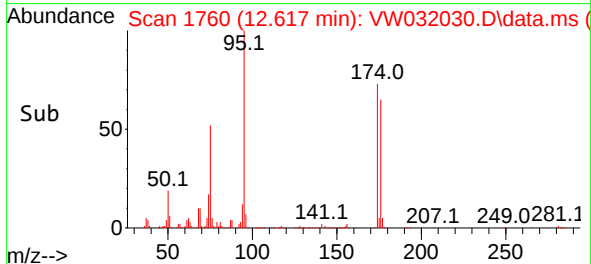
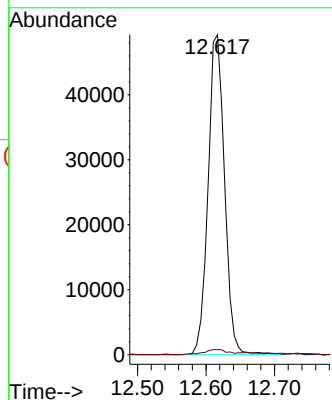
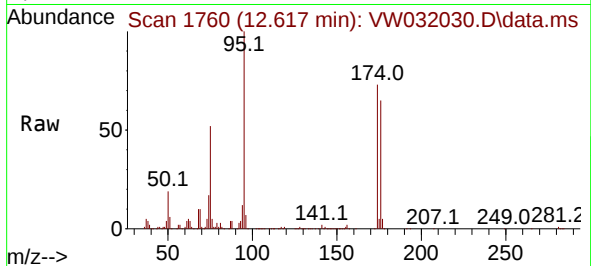




#76
1,2,3-Trichloropropane
Concen: 35.645 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.153 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

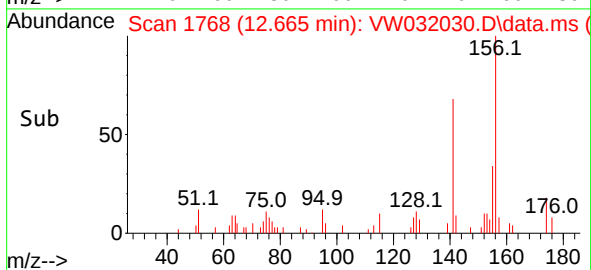
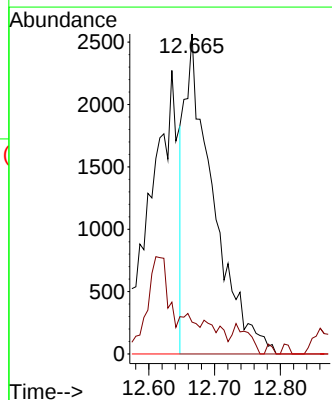
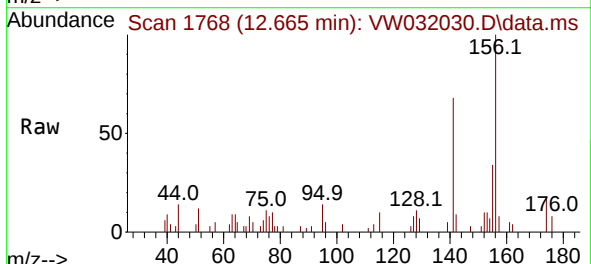
Instrument :
MSVOA_W
ClientSampleId :
OK-01-08062025

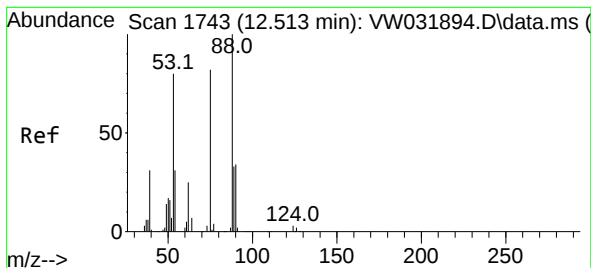
Tgt Ion: 75 Resp: 82381
Ion Ratio Lower Upper
75 100
77 2.3 0.0 0.0#



#77
Bromobenzene
Concen: 2.456 ug/l
RT: 12.665 min Scan# 1768
Delta R.T. -0.079 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Tgt Ion: 156 Resp: 7718
Ion Ratio Lower Upper
156 100
77 0.0 115.3 345.8#
158 0.0 50.1 150.3#

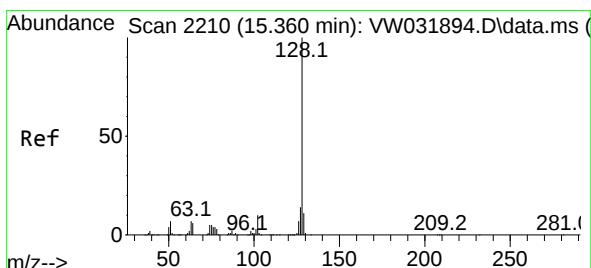
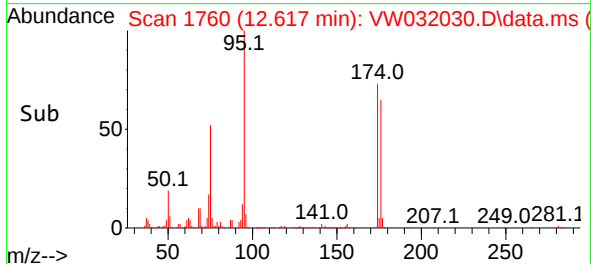
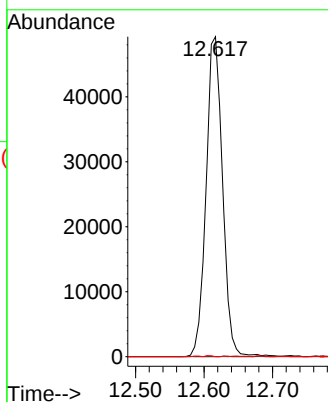
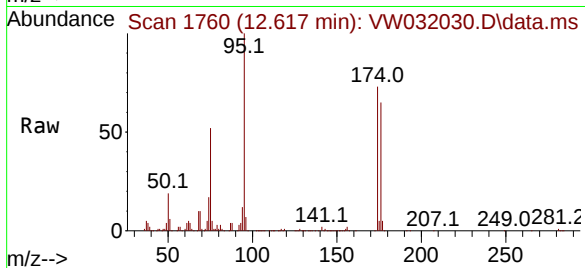




#81
trans-1,4-Dichloro-2-butene
Concen: 82.293 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Instrument :
MSVOA_W
ClientSampleId :
OK-01-08062025

Tgt Ion: 75 Resp: 82381
Ion Ratio Lower Upper
75 100
53 0.0 83.7 125.5#
89 0.2 39.0 58.6#



#95
Naphthalene
Concen: 4.574 ug/l
RT: 15.360 min Scan# 2210
Delta R.T. -0.000 min
Lab File: VW032030.D
Acq: 06 Aug 2025 15:50

Tgt Ion: 128 Resp: 39314
Ion Ratio Lower Upper
128 100
127 14.7 10.7 16.1
129 12.3 9.2 13.8

