

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080125\
 Data File : VW031978.D
 Acq On : 01 Aug 2025 12:18
 Operator : SY/MD
 Sample : Q2747-01
 Misc : 3.09g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OU4-TS-GRILLO-OG2-073125

Quant Time: Aug 01 23:11:26 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)

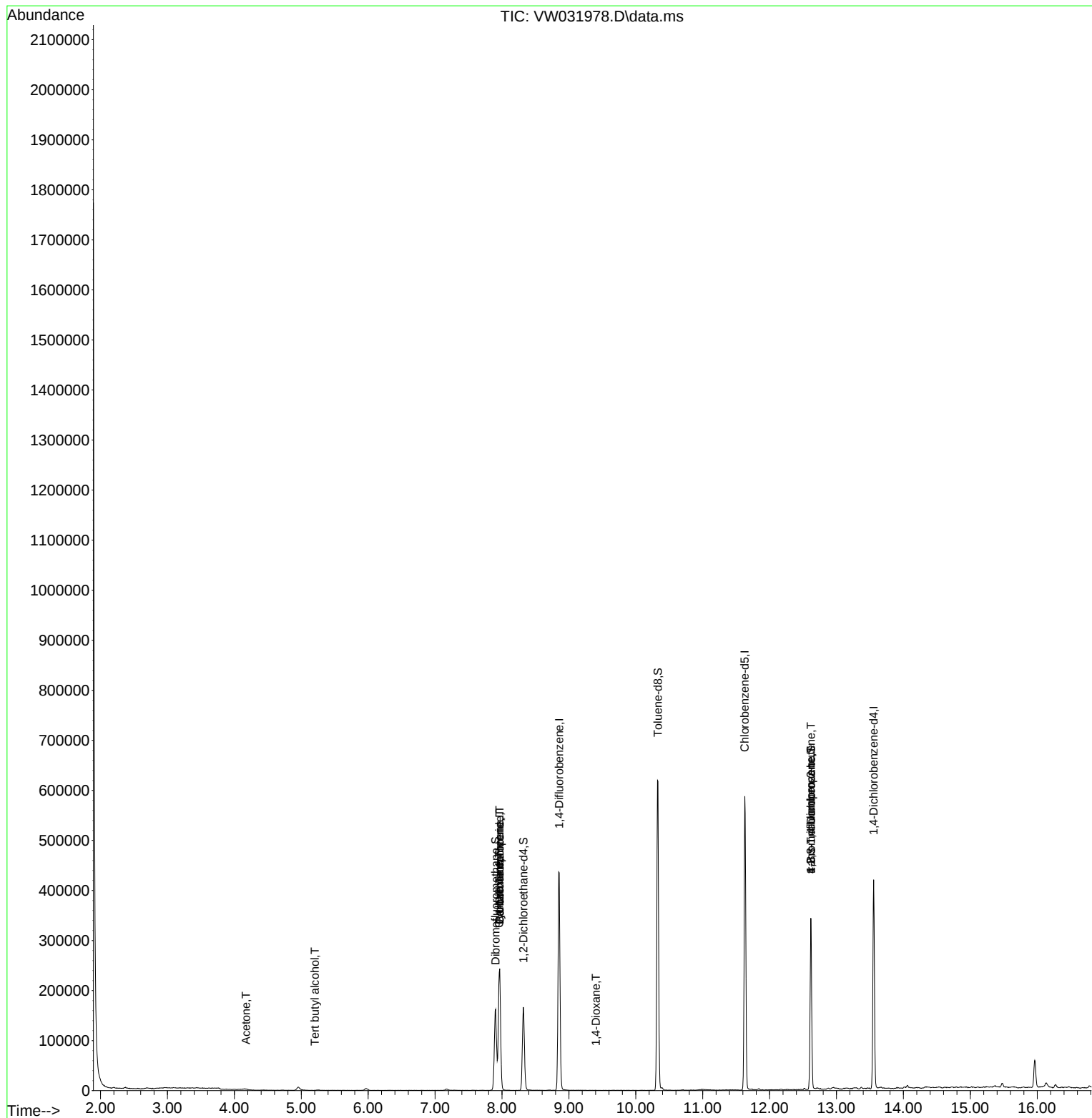
Internal Standards						
1) Pentafluorobenzene	7.965	168	162957	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.855	114	375651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	313359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	103107	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	133984	54.352	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 108.700%		
35) Dibromofluoromethane	7.904	113	119893	46.969	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 93.940%		
50) Toluene-d8	10.331	98	425552	44.049	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 88.100%		
62) 4-Bromofluorobenzene	12.617	95	121638	32.790	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 65.580%		
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.204	59	233	1.608	ug/l	# 72
13) Acrolein	3.929	56	39	Below Cal	#	59
16) Acetone	4.173	43	1704	2.913	ug/l	# 88
20) Methylene Chloride	4.948	84	5288	Below Cal	#	93
31) Cyclohexane	7.959	56	4444	1.175	ug/l	# 11
36) 1,1-Dichloropropene	7.965	75	16641	4.245	ug/l	# 48
38) Carbon Tetrachloride	7.965	117	19943	5.301	ug/l	# 17
49) 1,4-Dioxane	9.404	88	21	1.215	ug/l	# 23
76) 1,2,3-Trichloropropane	12.617	75	61489	43.194	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.617	75	61489	99.723	ug/l	# 8

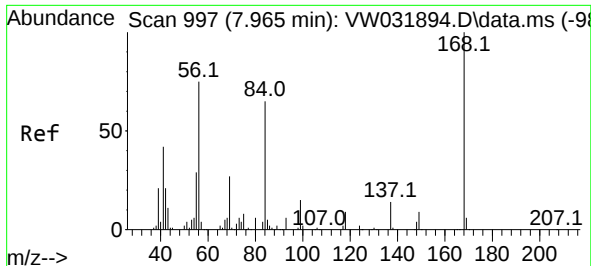
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OU4-TS-GRILLO-OG2-073125

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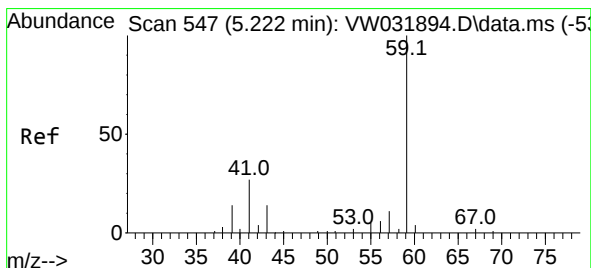
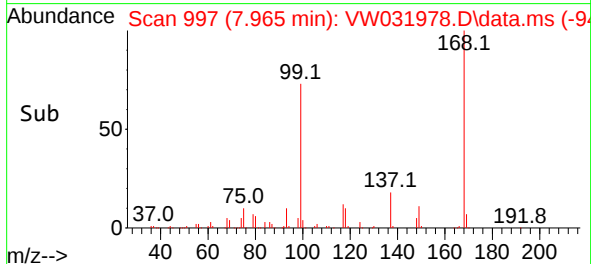
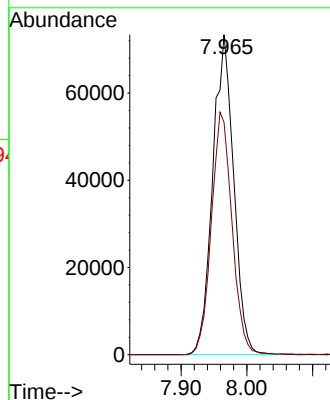
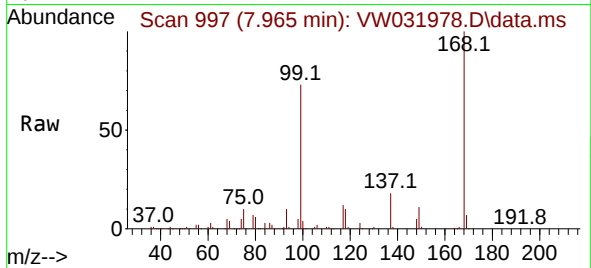




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

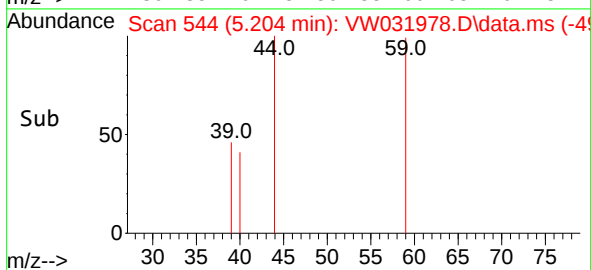
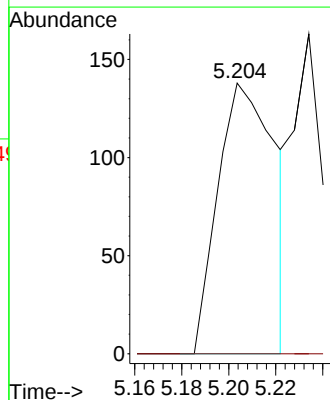
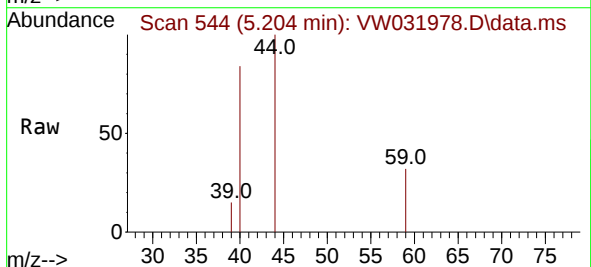
Instrument :
MSVOA_W
ClientSampleId :
OU4-TS-GRILLO-OG2-073125

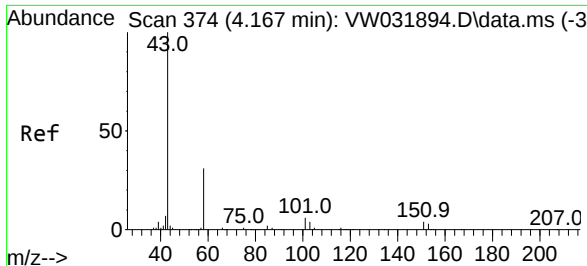
Tgt Ion:168 Resp: 162957
Ion Ratio Lower Upper
168 100
99 72.6 48.2 72.2#



#11
Tert butyl alcohol
Concen: 1.608 ug/l
RT: 5.204 min Scan# 544
Delta R.T. -0.018 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

Tgt Ion: 59 Resp: 233
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

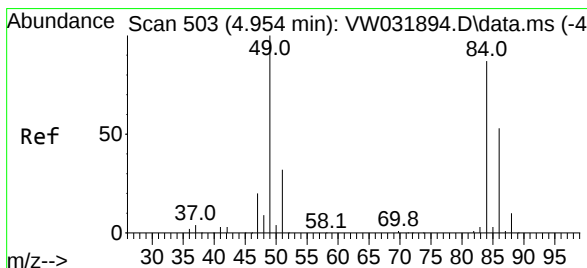
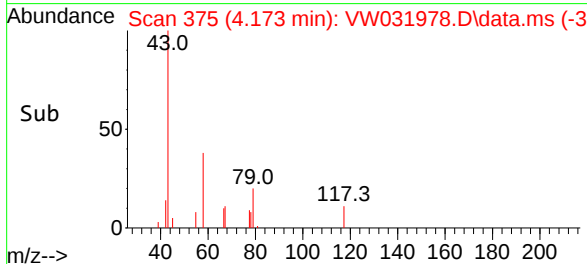
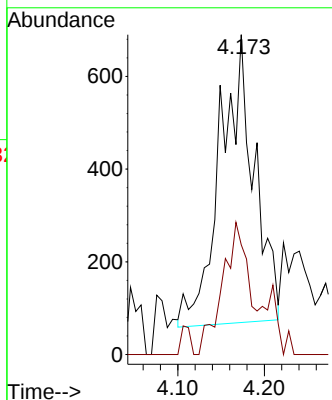
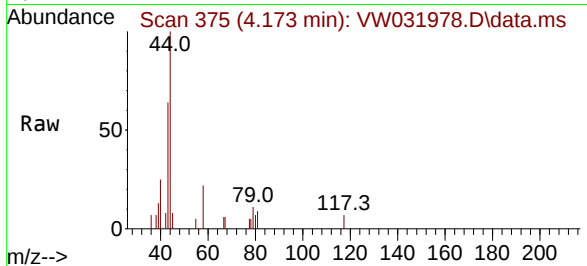




#16
Acetone
Concen: 2.913 ug/l
RT: 4.173 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

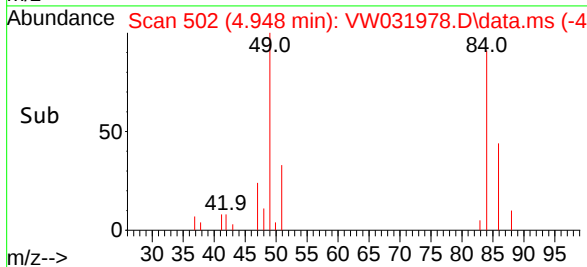
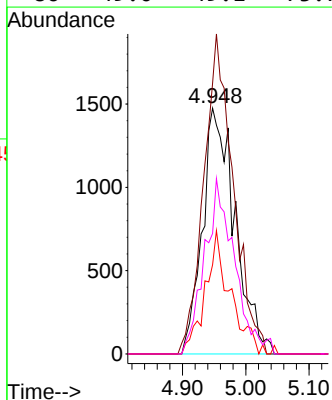
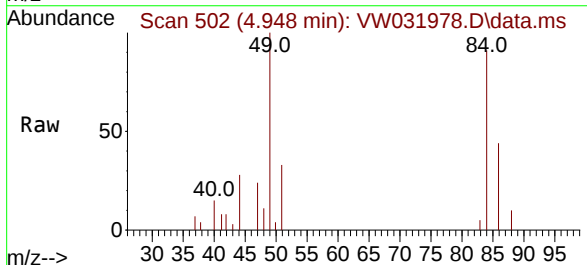
Instrument :
MSVOA_W
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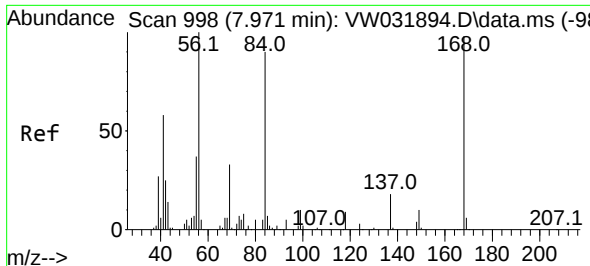
Tgt Ion: 43 Resp: 1704
Ion Ratio Lower Upper
43 100
58 38.5 25.5 38.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.948 min Scan# 502
Delta R.T. -0.006 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

Tgt Ion: 84 Resp: 5288
Ion Ratio Lower Upper
84 100
49 110.2 91.9 137.9
51 36.3 29.0 43.6
86 49.0 49.1 73.7#

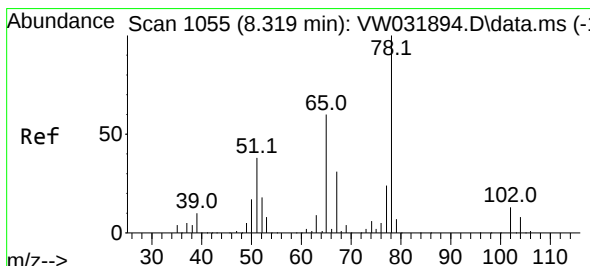
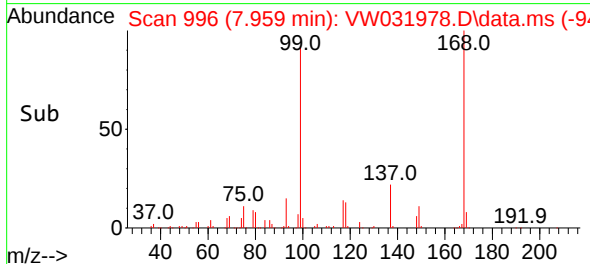
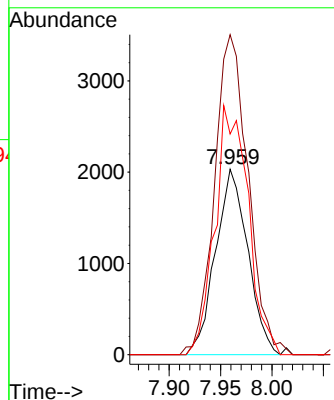
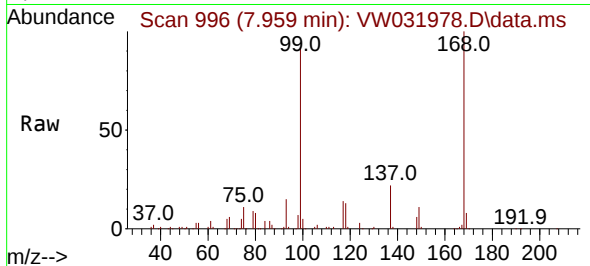




#31
Cyclohexane
Concen: 1.175 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

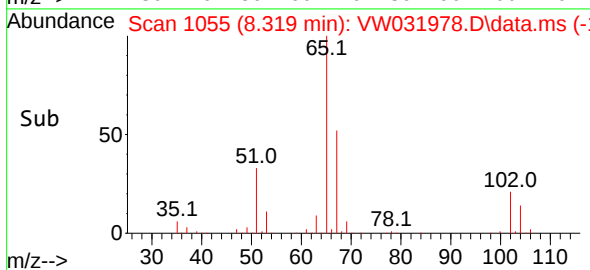
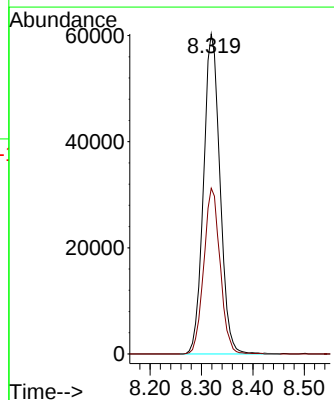
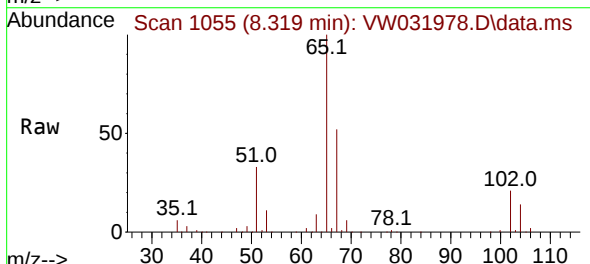
Instrument :
MSVOA_W
ClientSampleId :
OU4-TS-GRILLO-OG2-073125

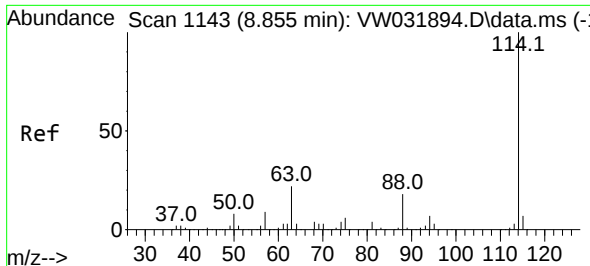
Tgt Ion: 56 Resp: 4444
Ion Ratio Lower Upper
56 100
69 172.5 26.7 40.1#
84 119.0 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 54.352 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

Tgt Ion: 65 Resp: 133984
Ion Ratio Lower Upper
65 100
67 51.4 0.0 101.4

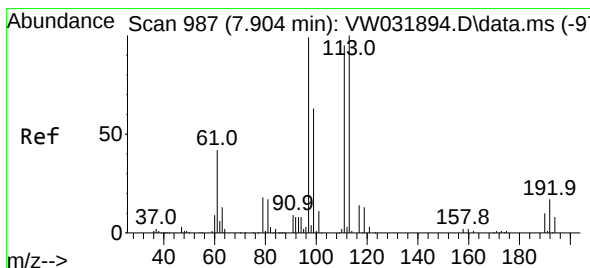
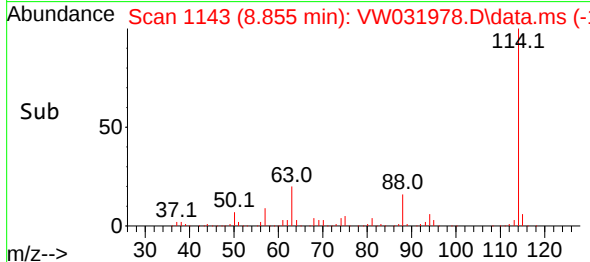
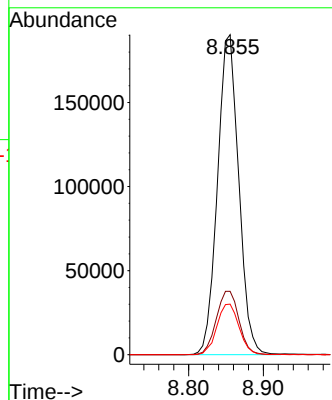
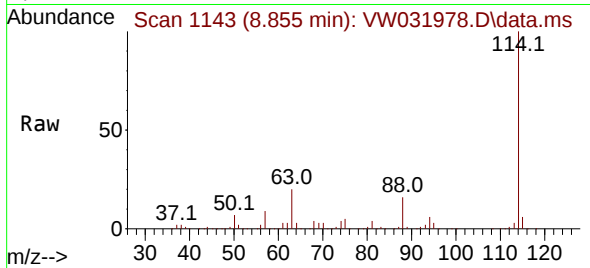




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

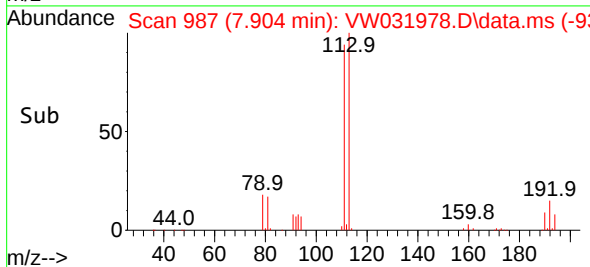
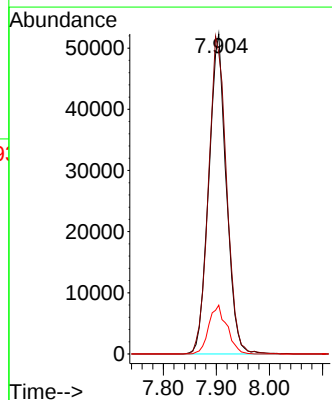
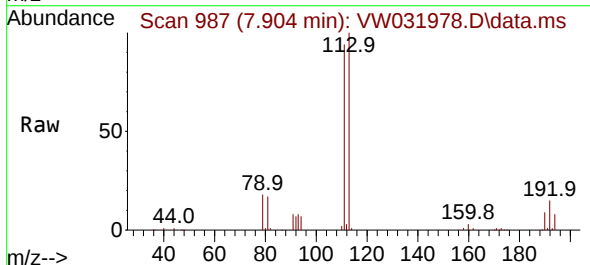
Instrument :
MSVOA_W
ClientSampleId :
OU4-TS-GRILLO-OG2-073125

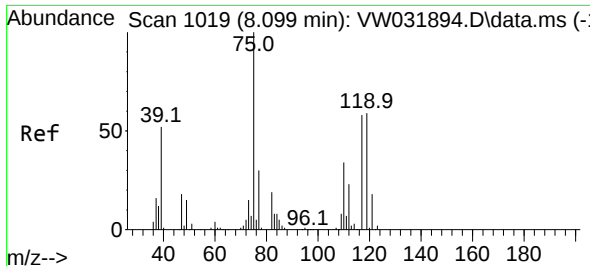
Tgt Ion:114 Resp: 375651
Ion Ratio Lower Upper
114 100
63 19.8 0.0 44.2
88 15.8 0.0 35.6



#35
Dibromofluoromethane
Concen: 46.969 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

Tgt Ion:113 Resp: 119893
Ion Ratio Lower Upper
113 100
111 102.7 79.9 119.9
192 15.8 12.6 19.0





#36

1,1-Dichloropropene

Concen: 4.245 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.134 min

Lab File: VW031978.D

Acq: 01 Aug 2025 12:18

Instrument :

MSVOA_W

ClientSampleId :

OU4-TS-GRILLO-OG2-073125

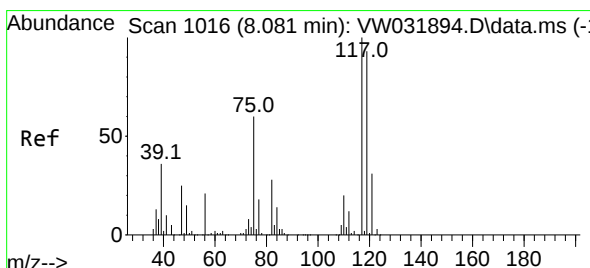
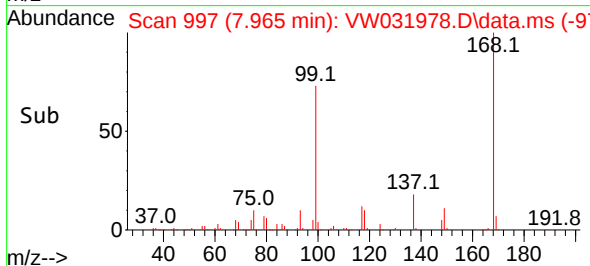
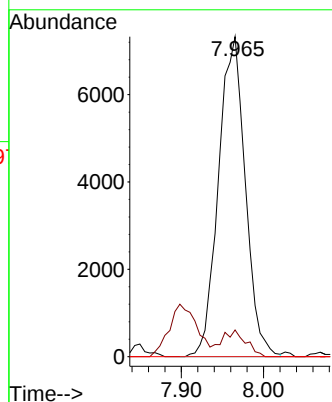
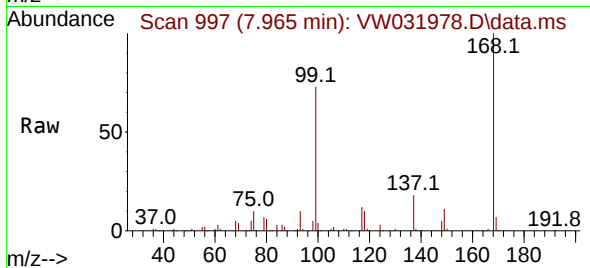
Tgt Ion: 75 Resp: 16641

Ion Ratio Lower Upper

75 100

110 6.4 17.0 50.9#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.301 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

Lab File: VW031978.D

Acq: 01 Aug 2025 12:18

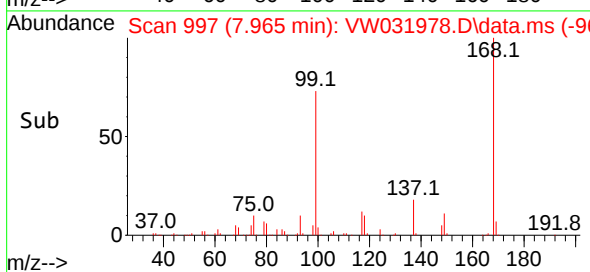
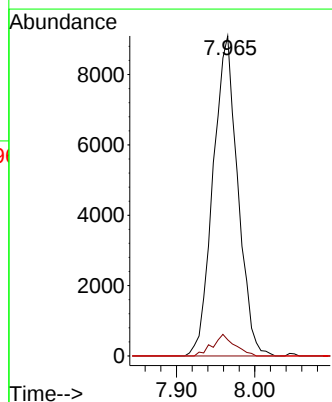
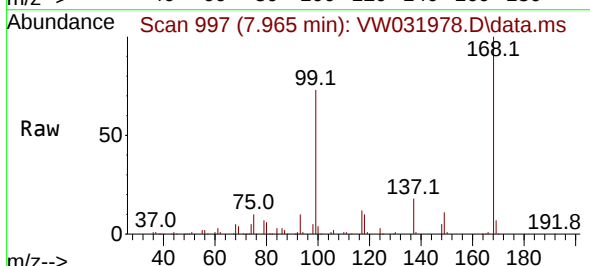
Tgt Ion: 117 Resp: 19943

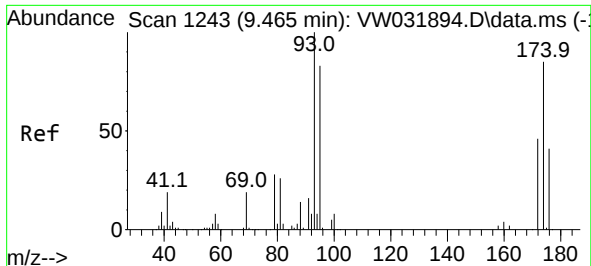
Ion Ratio Lower Upper

117 100

119 5.1 74.3 111.5#

121 0.0 24.6 37.0#





#49

1,4-Dioxane

Concen: 1.215 ug/l

RT: 9.404 min Scan# 11

Delta R.T. -0.061 min

Lab File: VW031978.D

Acq: 01 Aug 2025 12:18

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ClientSampleId :

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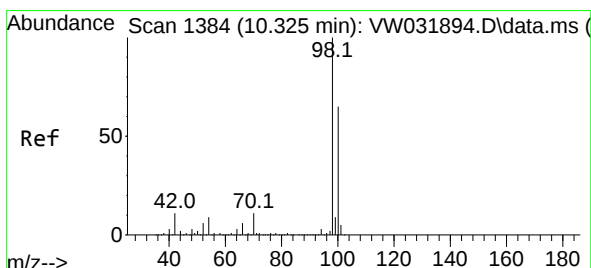
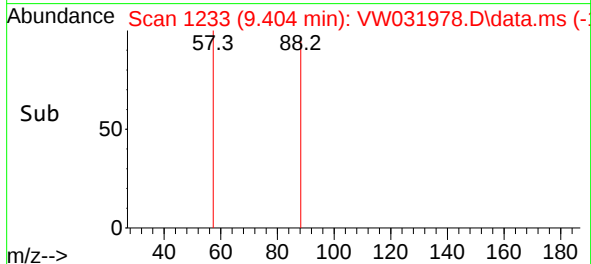
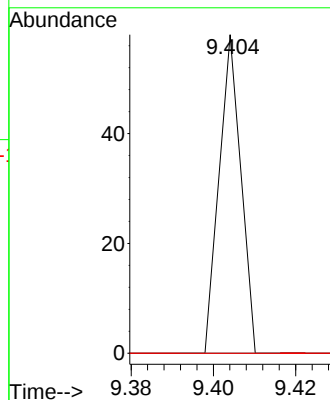
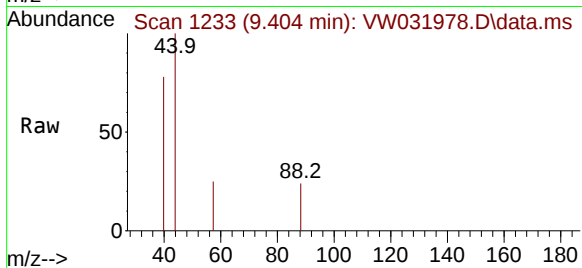
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 19.0 28.4#

58 0.0 58.2 87.2#



#50

Toluene-d8

Concen: 44.049 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW031978.D

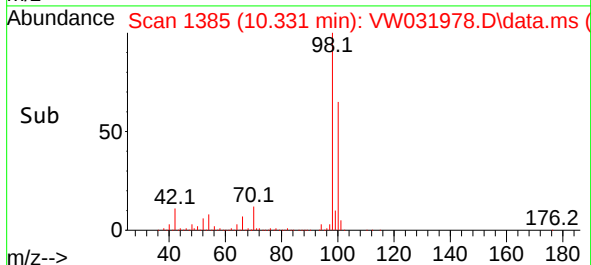
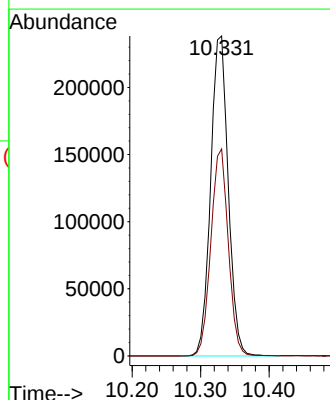
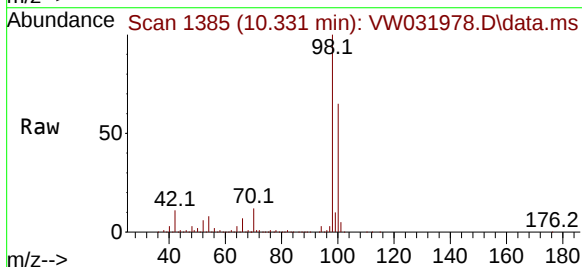
Acq: 01 Aug 2025 12:18

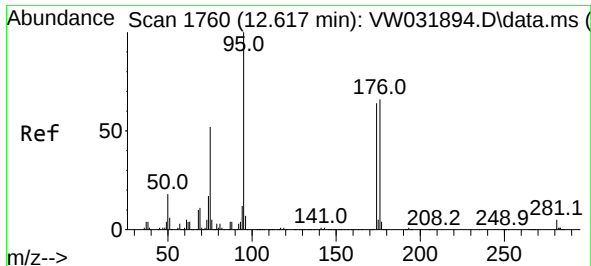
Tgt Ion: 98 Resp: 425552

Ion Ratio Lower Upper

98 100

100 64.2 51.7 77.5

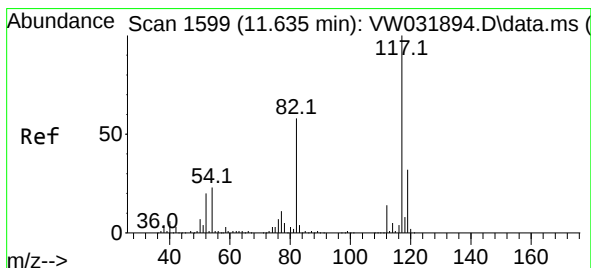
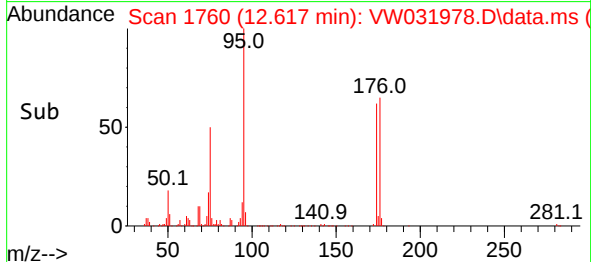
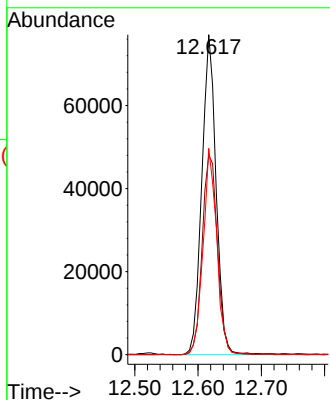
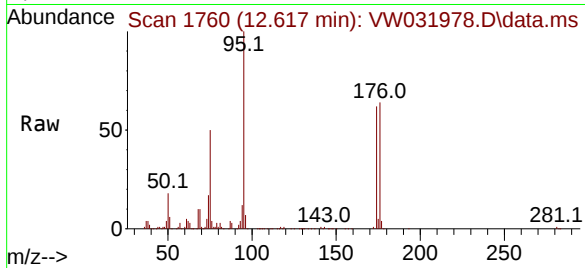




#62
4-Bromofluorobenzene
Concen: 32.790 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

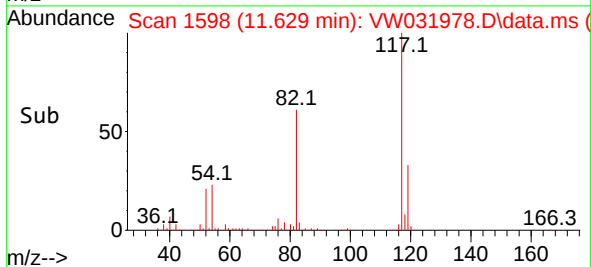
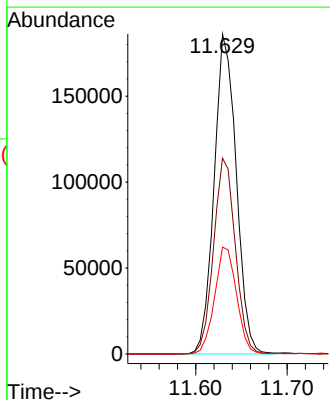
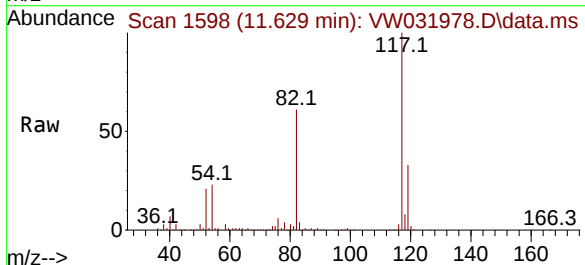
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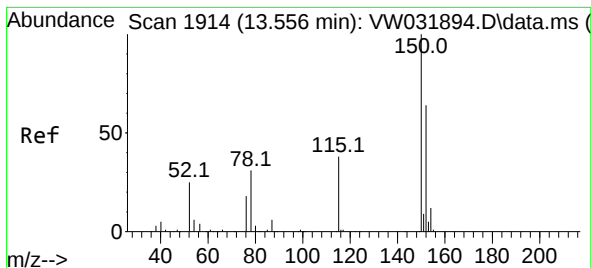
Tgt Ion: 95 Resp: 121638
Ion Ratio Lower Upper
95 100
174 66.5 0.0 129.8
176 61.7 0.0 130.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW031978.D
Acq: 01 Aug 2025 12:18

Tgt Ion: 117 Resp: 313359
Ion Ratio Lower Upper
117 100
82 61.2 46.5 69.7
119 33.4 25.8 38.6

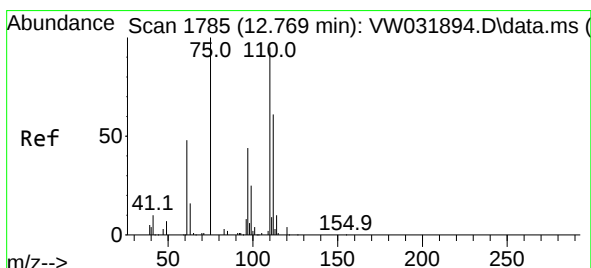
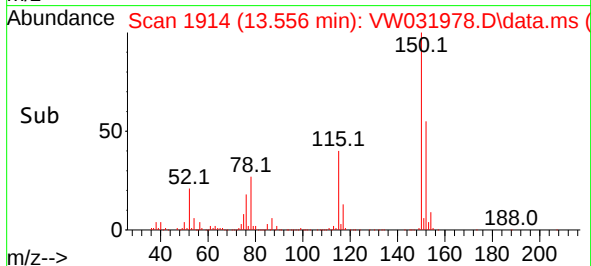
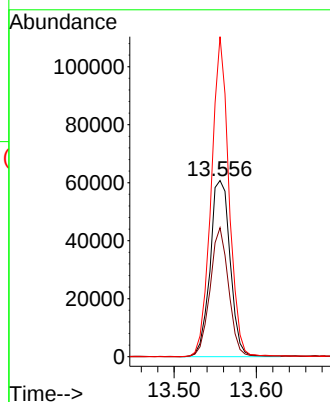
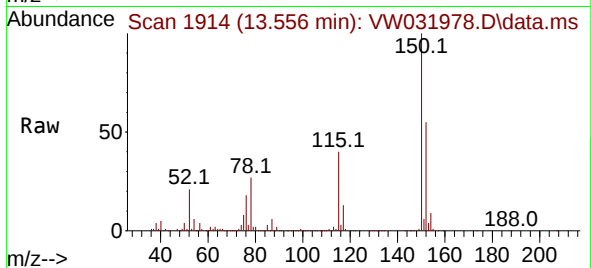




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. 0.000 min
 Lab File: VW031978.D
 Acq: 01 Aug 2025 12:18

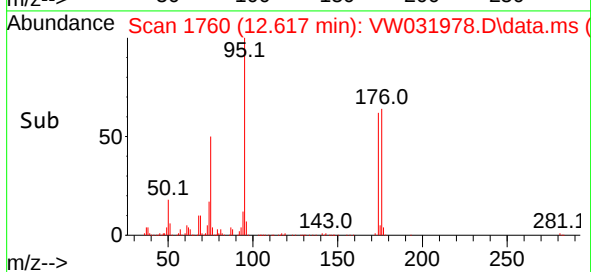
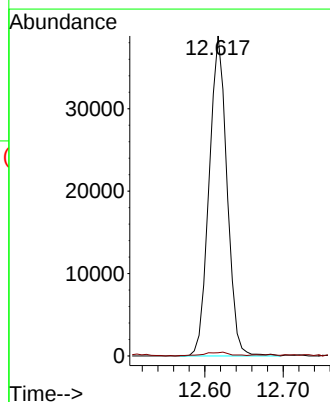
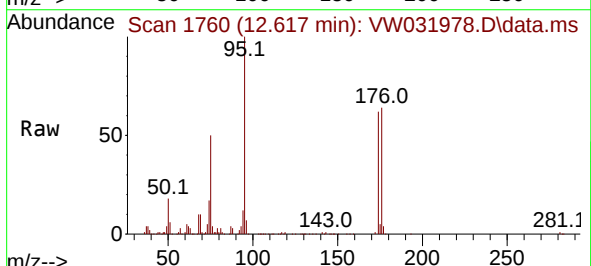
Instrument :
 MSVOA_W
 ClientSampleId :
 OU4-TS-GRILLO-OG2-073125

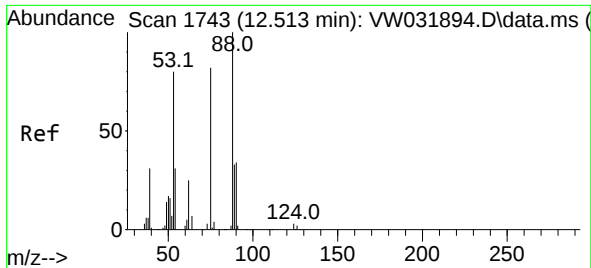
Tgt Ion:152 Resp: 103107
 Ion Ratio Lower Upper
 152 100
 115 67.5 33.4 100.1
 150 160.6 0.0 352.2



#76
 1,2,3-Trichloropropane
 Concen: 43.194 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.152 min
 Lab File: VW031978.D
 Acq: 01 Aug 2025 12:18

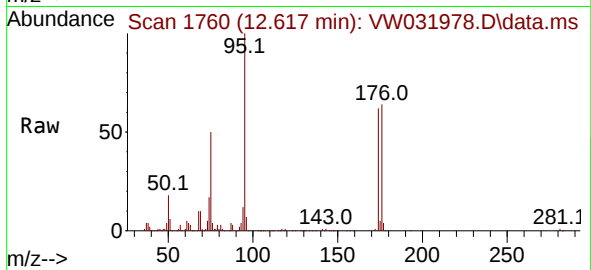
Tgt Ion: 75 Resp: 61489
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 99.723 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VW031978.D
 Acq: 01 Aug 2025 12:18

Instrument :
 MSVOA_W
 ClientSampleId :
 OU4-TS-GRILLO-OG2-073125



Tgt Ion: 75 Resp: 61489
 Ion Ratio Lower Upper
 75 100
 53 0.2 83.7 125.5#
 89 0.0 39.0 58.6#

