

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW091925\
 Data File : VW032218.D
 Acq On : 19 Sep 2025 16:11
 Operator : SY/MD
 Sample : Q3150-03
 Misc : 5.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 19 23:12:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W082625S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 27 04:13:40 2025
 Response via : Initial Calibration

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

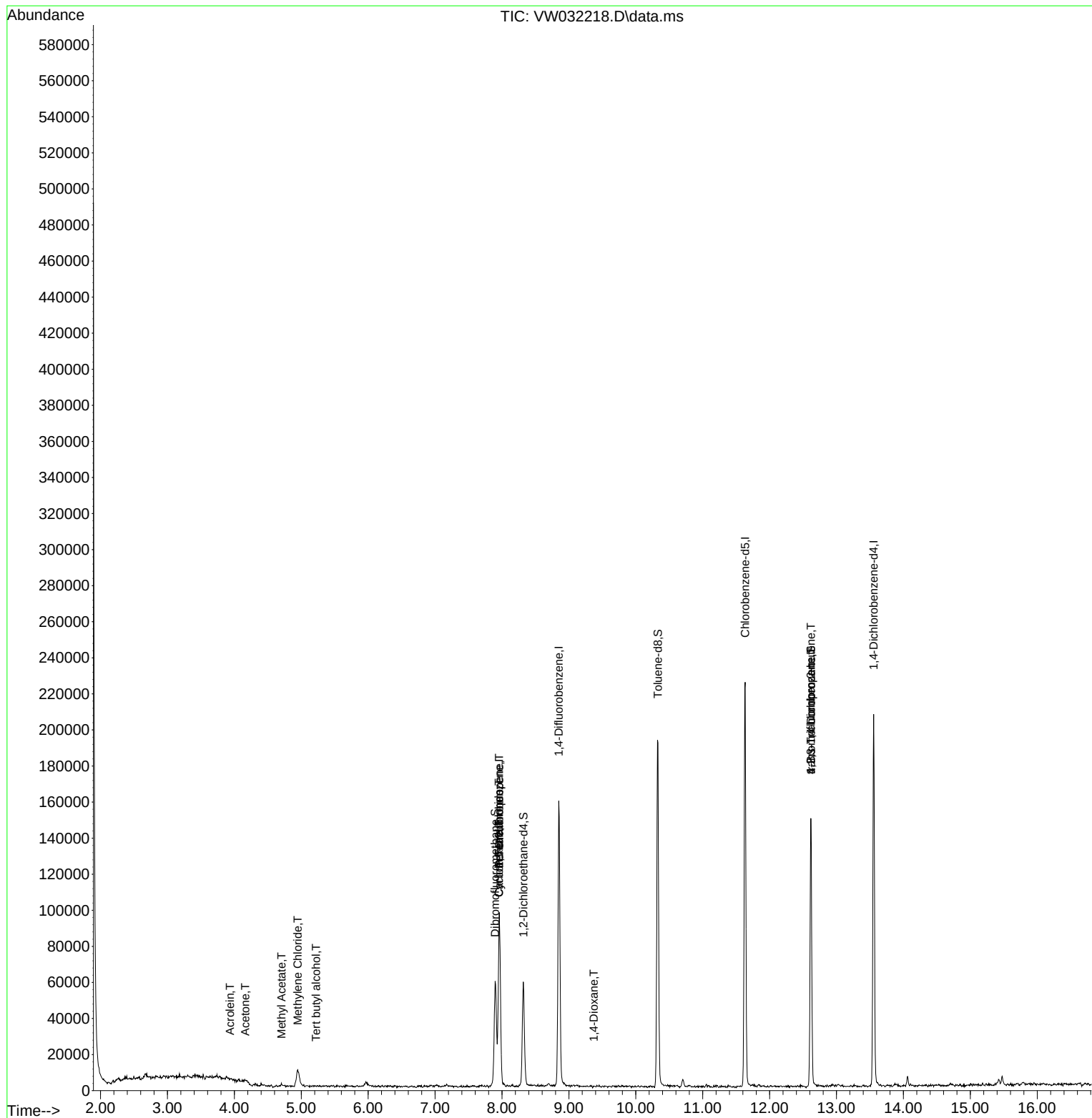
Internal Standards						
1) Pentafluorobenzene	7.959	168	64103	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	128658	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	115897	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	48770	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	45613	49.755	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	99.500%
35) Dibromofluoromethane	7.898	113	41707	46.205	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	92.400%
50) Toluene-d8	10.331	98	126707	39.986	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	79.980%
62) 4-Bromofluorobenzene	12.617	95	48528	41.415	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	82.820%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.222	59	147	2.621	ug/l #	72
13) Acrolein	3.936	56	214	2.483	ug/l #	78
16) Acetone	4.161	43	1367	6.885	ug/l #	67
18) Methyl Acetate	4.704	43	2135	3.375	ug/l	94
20) Methylene Chloride	4.948	84	6721	4.778	ug/l #	90
31) Cyclohexane	7.953	56	1908	1.695	ug/l #	47
36) 1,1-Dichloropropene	7.959	75	5830	4.981	ug/l #	56
38) Carbon Tetrachloride	7.953	117	7633	6.084	ug/l #	18
49) 1,4-Dioxane	9.374	88	18	2.436	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	27709	45.351	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	27709	122.106	ug/l #	5

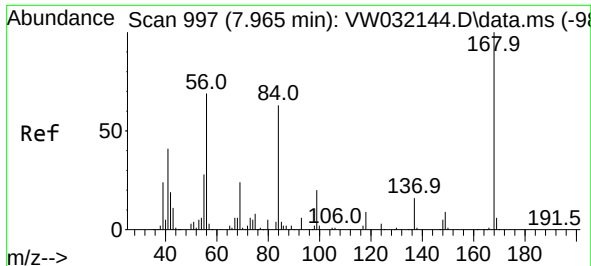
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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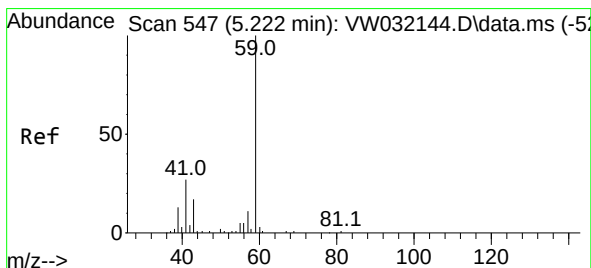
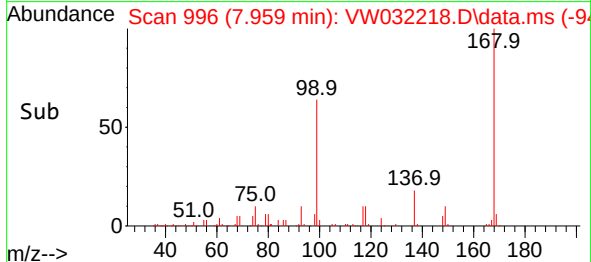
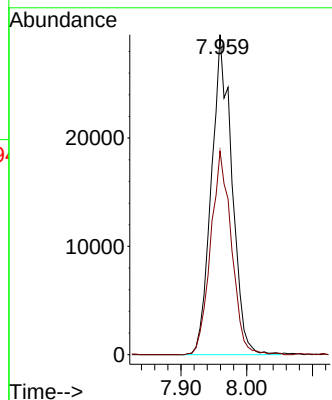
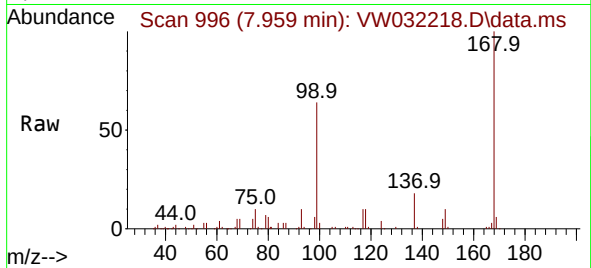




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

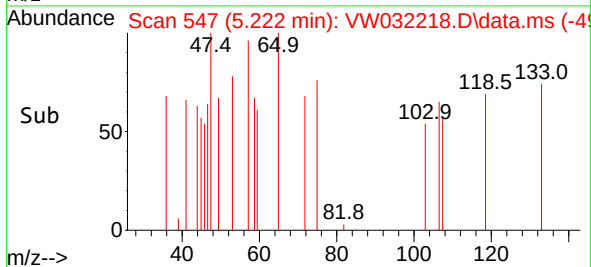
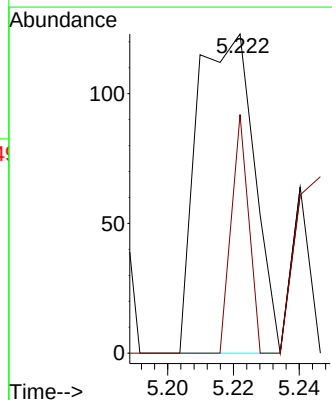
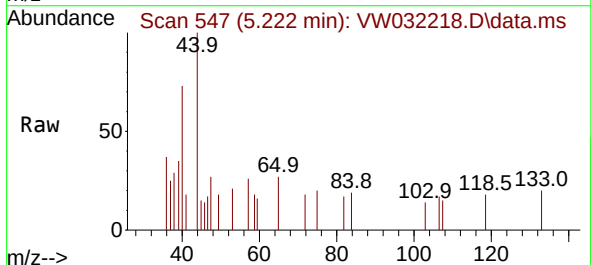
Instrument :
MSVOA_W
ClientSampleId :

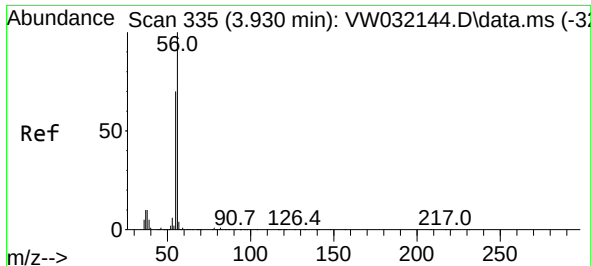
Tgt Ion:168 Resp: 64103
Ion Ratio Lower Upper
168 100
99 63.6 49.3 73.9



#11
Tert butyl alcohol
Concen: 2.621 ug/l
RT: 5.222 min Scan# 547
Delta R.T. 0.000 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

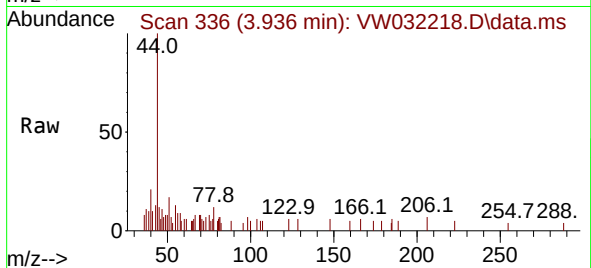
Tgt Ion: 59 Resp: 147
Ion Ratio Lower Upper
59 100
57 23.1 9.8 14.6#



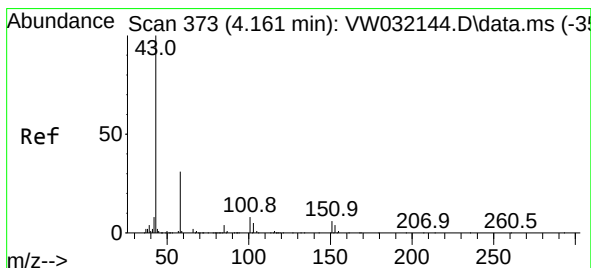
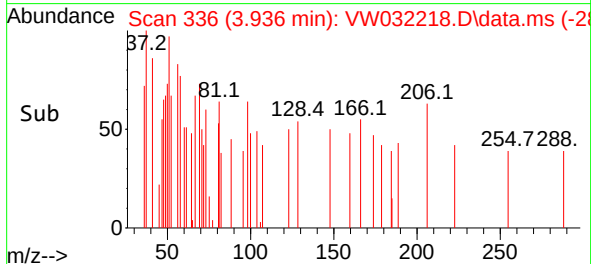
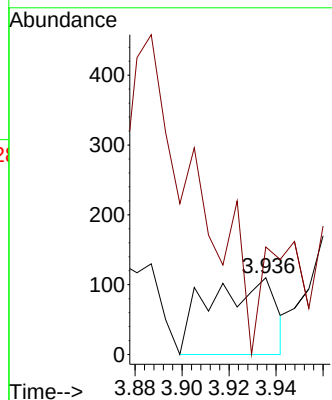


#13
Acrolein
Concen: 2.483 ug/l
RT: 3.936 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

Instrument :
MSVOA_W
ClientSampleId :

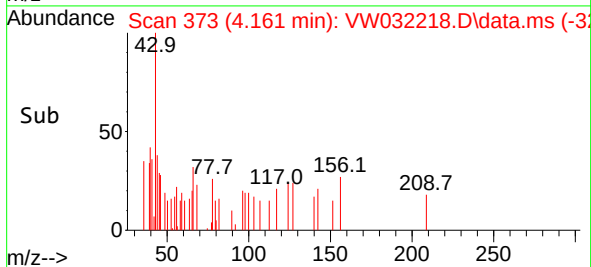
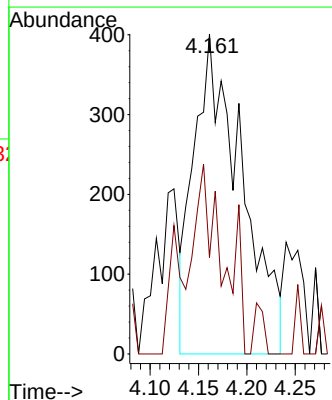
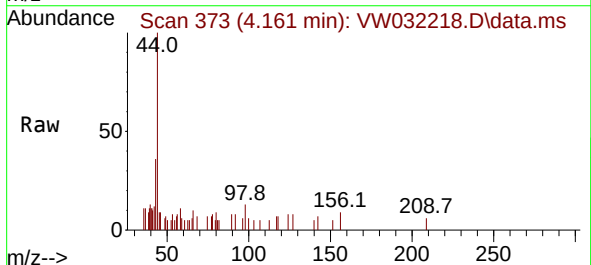


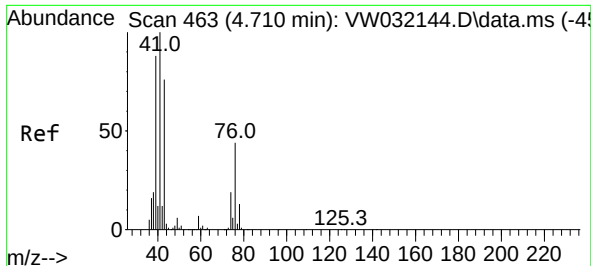
Tgt Ion: 56 Resp: 214
Ion Ratio Lower Upper
56 100
55 88.3 56.4 84.6#



#16
Acetone
Concen: 6.885 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

Tgt Ion: 43 Resp: 1367
Ion Ratio Lower Upper
43 100
58 13.4 25.3 37.9#

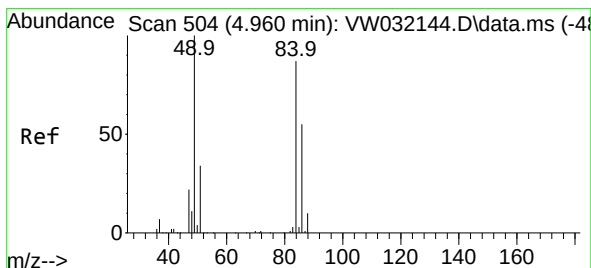
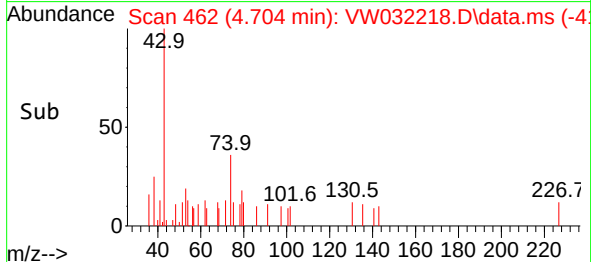
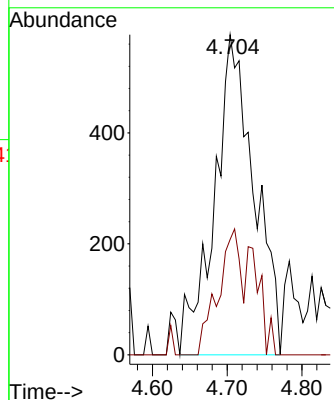
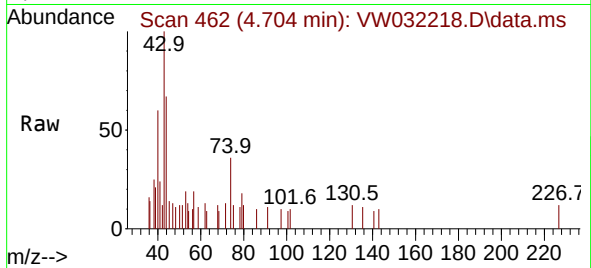




#18
Methyl Acetate
Concen: 3.375 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.006 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

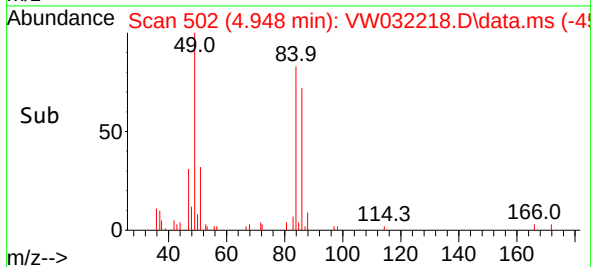
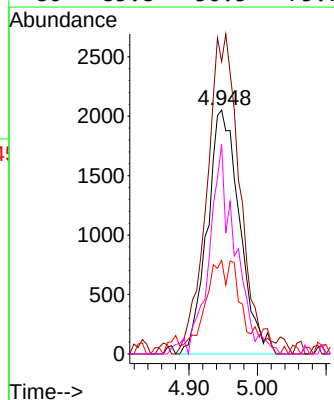
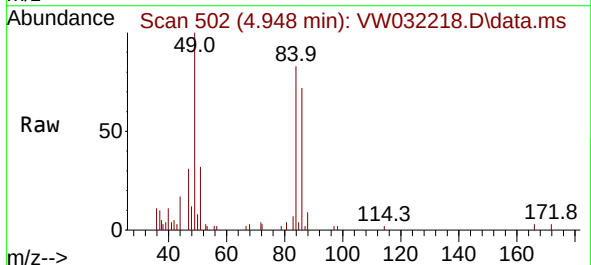
Instrument :
MSVOA_W
ClientSampleId :

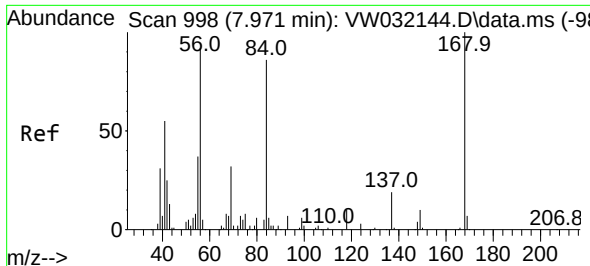
Tgt Ion: 43 Resp: 2135
Ion Ratio Lower Upper
43 100
74 22.4 20.2 30.4



#20
Methylene Chloride
Concen: 4.778 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

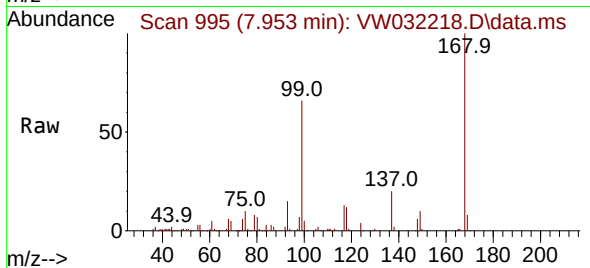
Tgt Ion: 84 Resp: 6721
Ion Ratio Lower Upper
84 100
49 117.3 92.2 138.4
51 38.4 31.0 46.6
86 85.8 50.5 75.7#



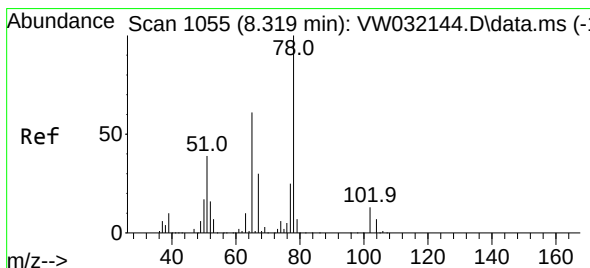
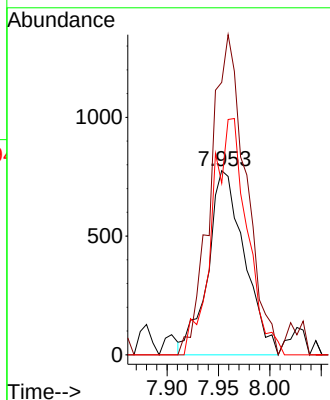
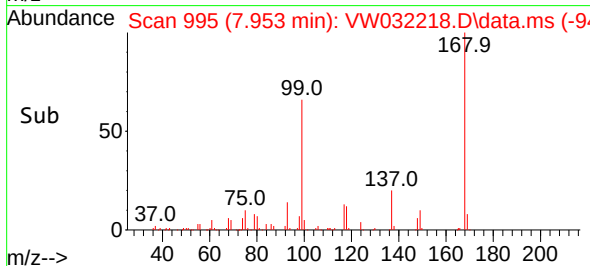


#31
Cyclohexane
Concen: 1.695 ug/l
RT: 7.953 min Scan# 995
Delta R.T. -0.018 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

Instrument :
MSVOA_W
ClientSampleId :

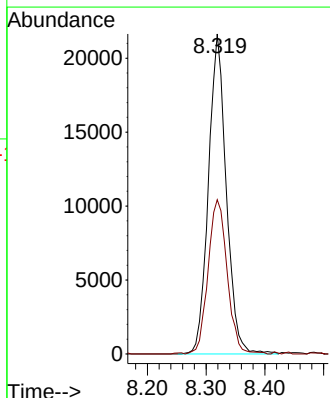
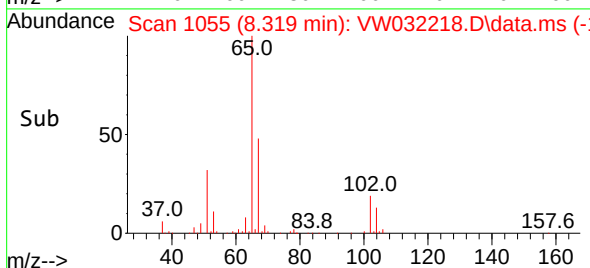
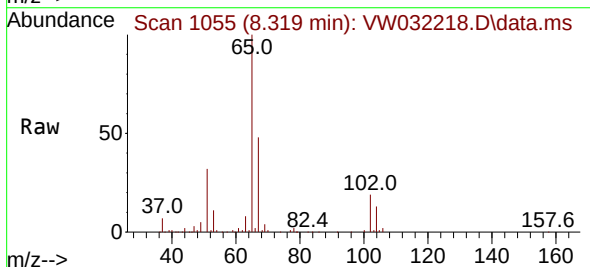


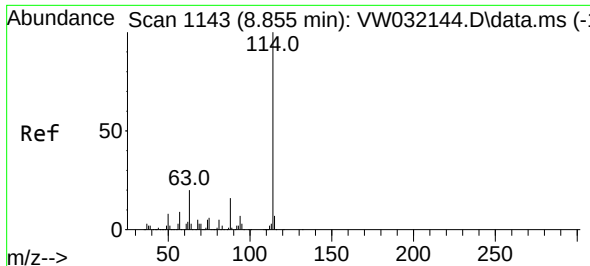
Tgt Ion: 56 Resp: 1908
Ion Ratio Lower Upper
56 100
69 148.0 27.7 41.5#
84 93.3 74.6 112.0



#33
1,2-Dichloroethane-d4
Concen: 49.755 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

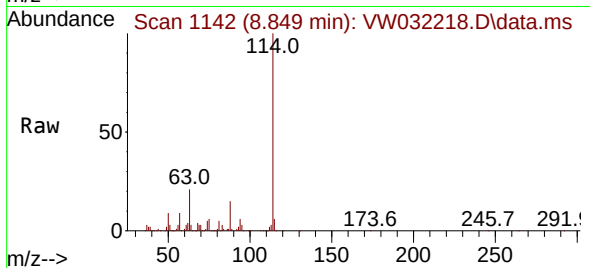
Tgt Ion: 65 Resp: 45613
Ion Ratio Lower Upper
65 100
67 51.6 0.0 99.6



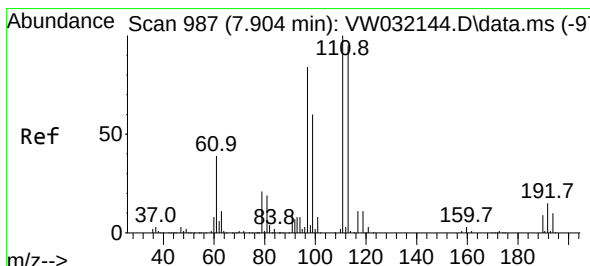
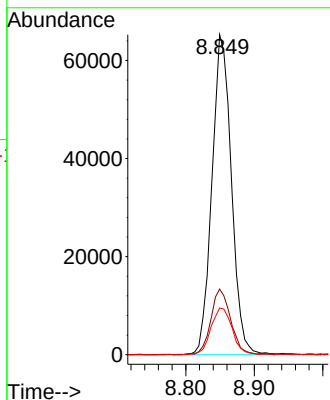
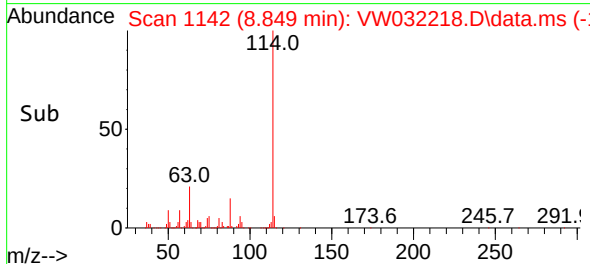


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

Instrument :
MSVOA_W
ClientSampleId :

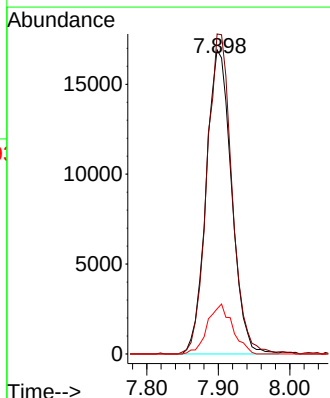
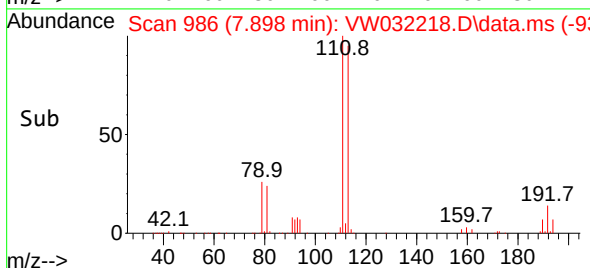
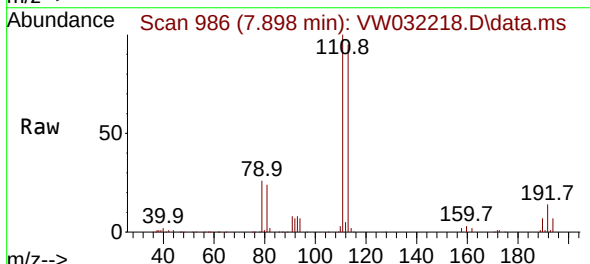


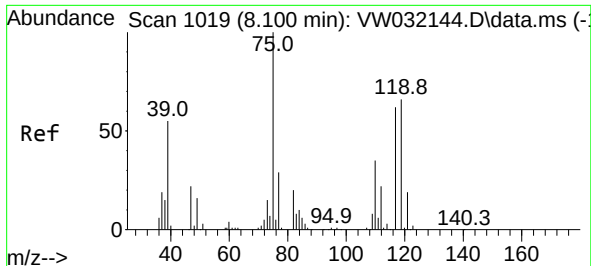
Tgt Ion:114 Resp: 128658
Ion Ratio Lower Upper
114 100
63 20.5 0.0 40.4
88 14.5 0.0 32.0



#35
Dibromofluoromethane
Concen: 46.205 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

Tgt Ion:113 Resp: 41707
Ion Ratio Lower Upper
113 100
111 103.7 83.9 125.9
192 16.2 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.981 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.140 min

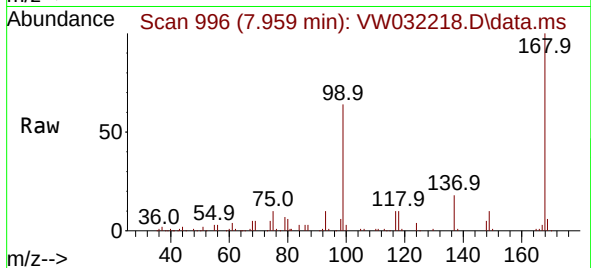
Lab File: VW032218.D

Acq: 19 Sep 2025 16:11

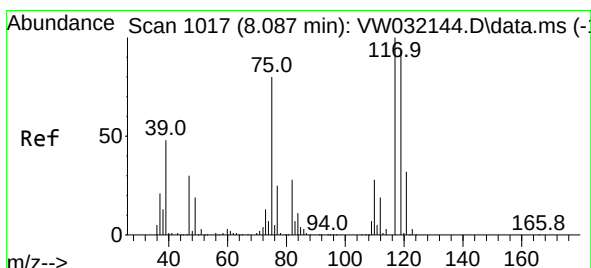
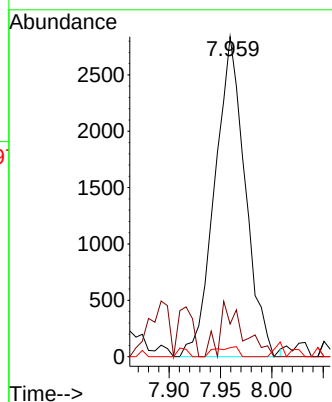
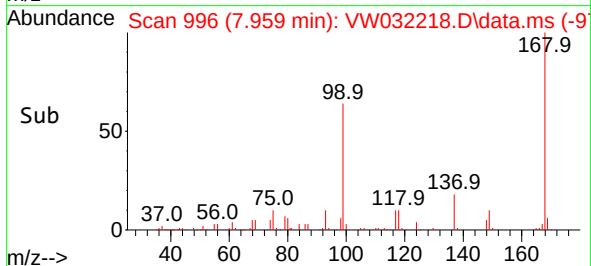
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	75	Resp:	5830
Ion Ratio	100	Lower	Upper
110	13.2	17.5	52.5#
77	2.3	24.1	36.1#



#38

Carbon Tetrachloride

Concen: 6.084 ug/l

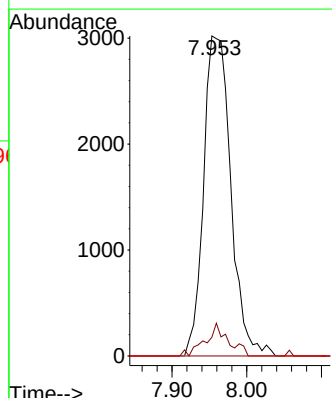
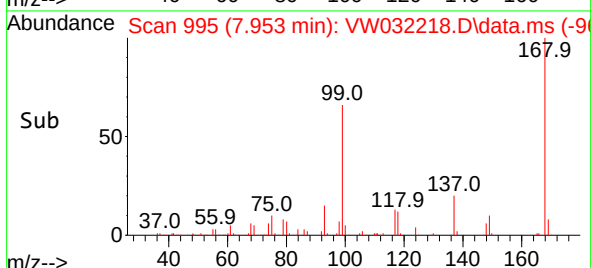
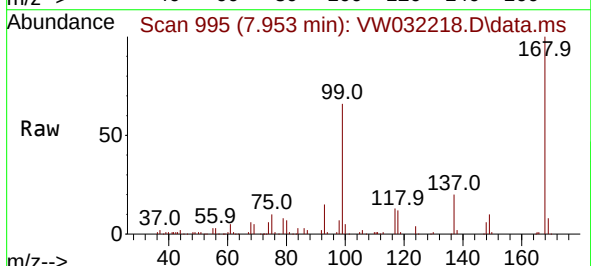
RT: 7.953 min Scan# 995

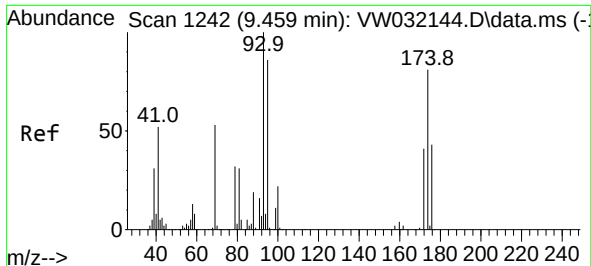
Delta R.T. -0.134 min

Lab File: VW032218.D

Acq: 19 Sep 2025 16:11

Tgt Ion:	117	Resp:	7633
Ion Ratio	100	Lower	Upper
119	5.8	74.2	111.2#
121	0.0	25.6	38.4#





#49

1,4-Dioxane

Concen: 2.436 ug/l

RT: 9.374 min Scan# 11

Delta R.T. -0.085 min

Lab File: VW032218.D

Acq: 19 Sep 2025 16:11

Instrument :

MSVOA_W

ClientSampleId :

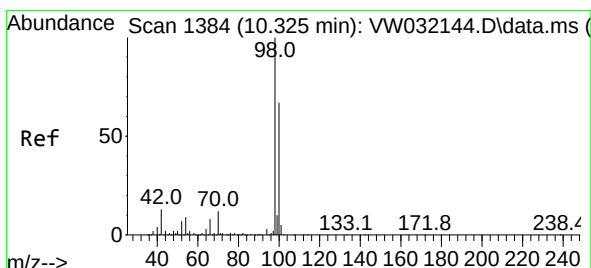
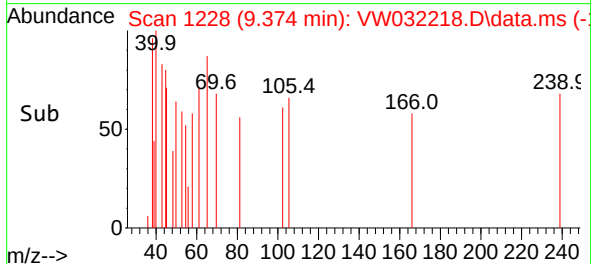
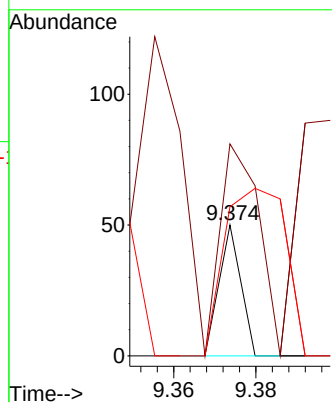
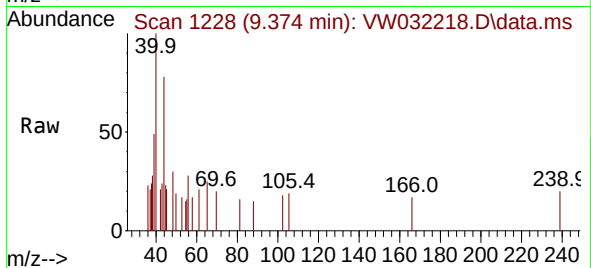
Tgt Ion: 88 Resp: 18

Ion Ratio Lower Upper

88 100

43 294.4 18.0 27.0#

58 366.7 55.4 83.0#



#50

Toluene-d8

Concen: 39.986 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032218.D

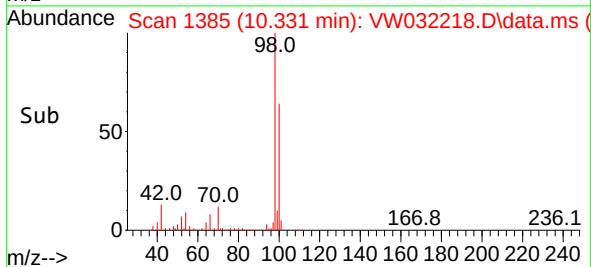
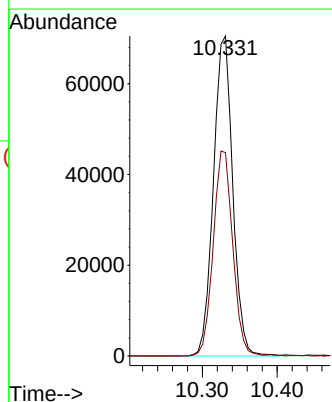
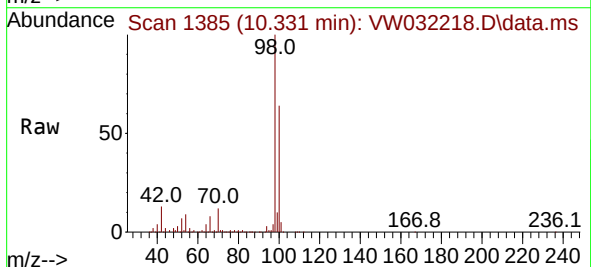
Acq: 19 Sep 2025 16:11

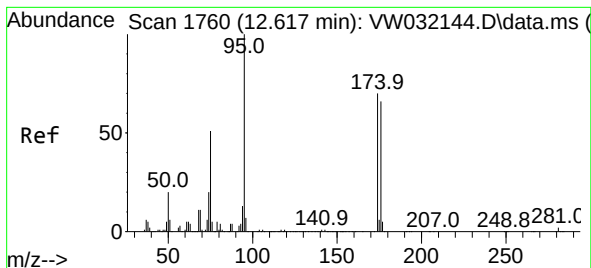
Tgt Ion: 98 Resp: 126707

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.2

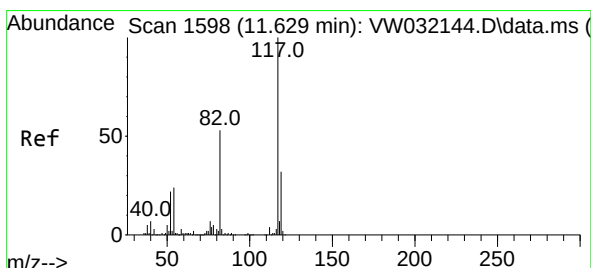
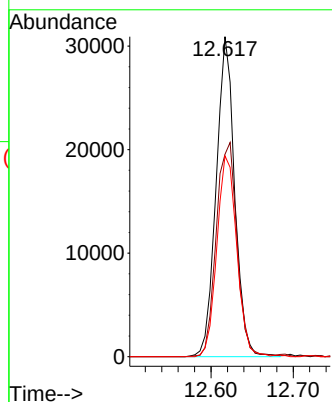
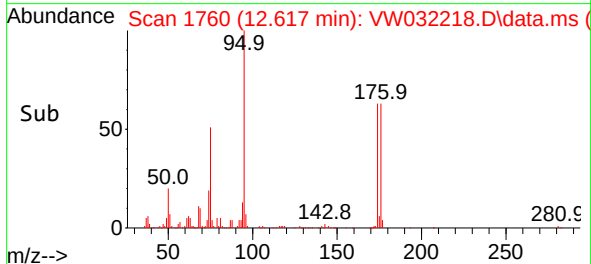
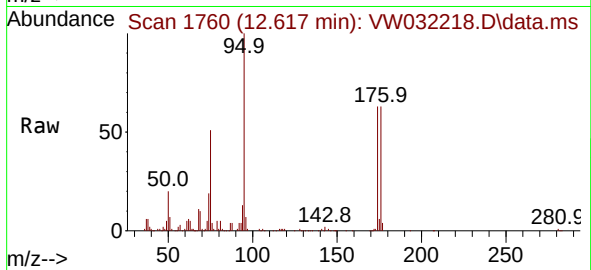




#62
4-Bromofluorobenzene
Concen: 41.415 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

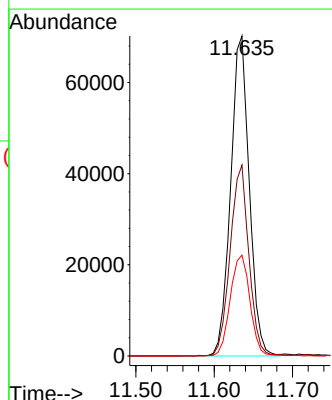
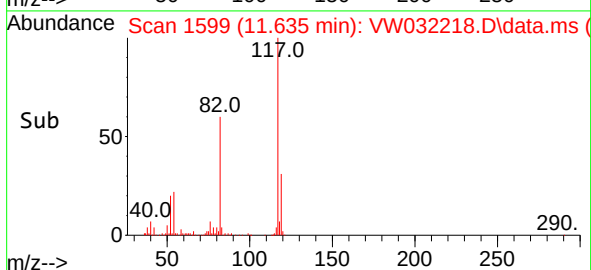
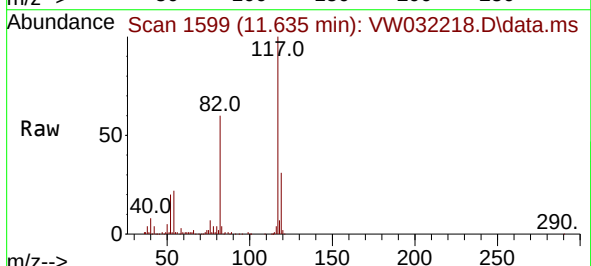
Instrument :
MSVOA_W
ClientSampleId :

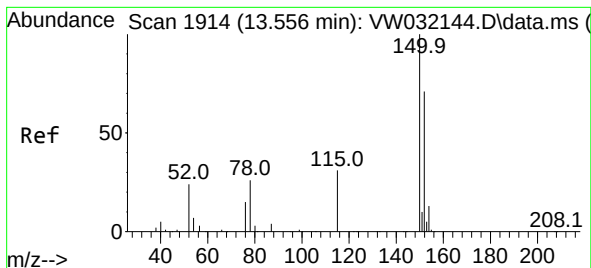
Tgt Ion: 95 Resp: 48528
Ion Ratio Lower Upper
95 100
174 75.0 0.0 145.6
176 67.4 0.0 140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032218.D
Acq: 19 Sep 2025 16:11

Tgt Ion: 117 Resp: 115897
Ion Ratio Lower Upper
117 100
82 59.7 42.7 64.1
119 31.5 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

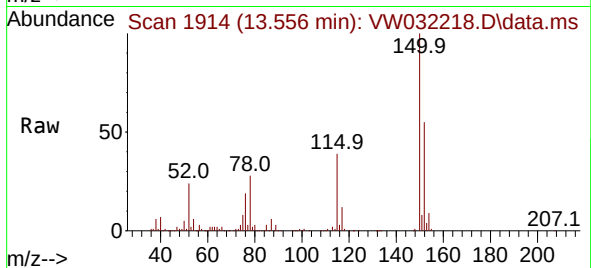
Lab File: VW032218.D

Acq: 19 Sep 2025 16:11

Instrument :

MSVOA_W

ClientSampleId :



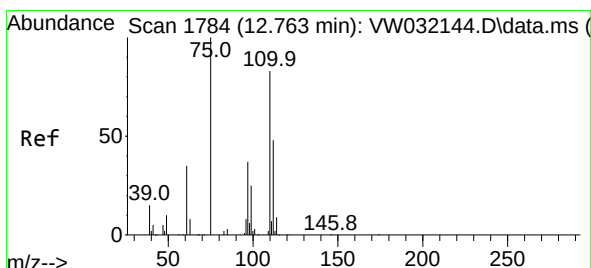
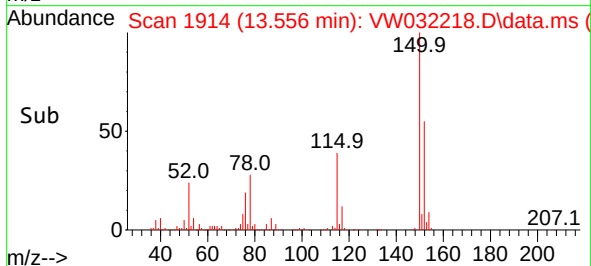
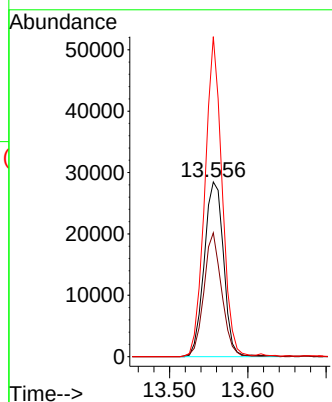
Tgt Ion:152 Resp: 48770

Ion Ratio Lower Upper

152 100

115 65.2 31.8 95.4

150 162.3 0.0 343.0



#76

1,2,3-Trichloropropane

Concen: 45.351 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032218.D

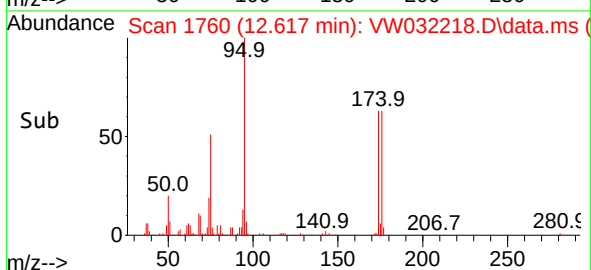
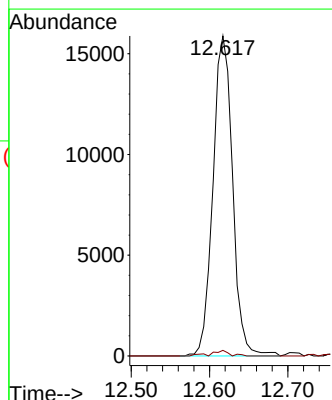
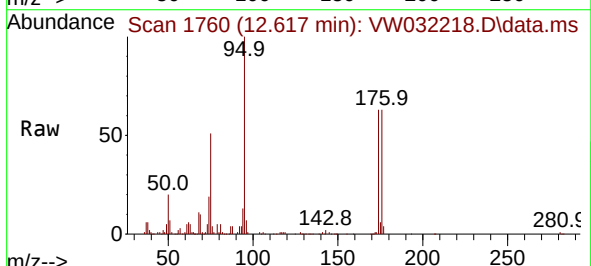
Acq: 19 Sep 2025 16:11

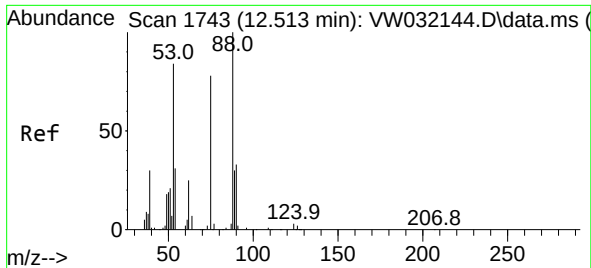
Tgt Ion: 75 Resp: 27709

Ion Ratio Lower Upper

75 100

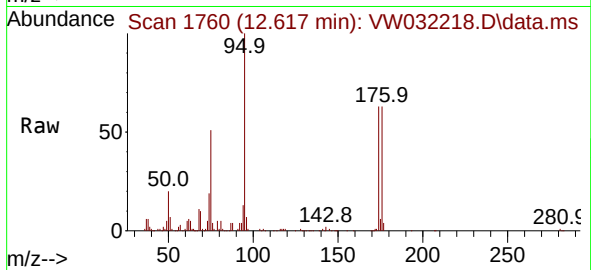
77 1.6 141.7 425.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 122.106 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VW032218.D
 Acq: 19 Sep 2025 16:11

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.7	91.0	136.6#
89	0.1	39.4	59.2#

