

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW091725\
 Data File : VW032188.D
 Acq On : 17 Sep 2025 14:37
 Operator : SY/MD
 Sample : Q3126-01
 Misc : 5.09g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 18 04:35:28 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)

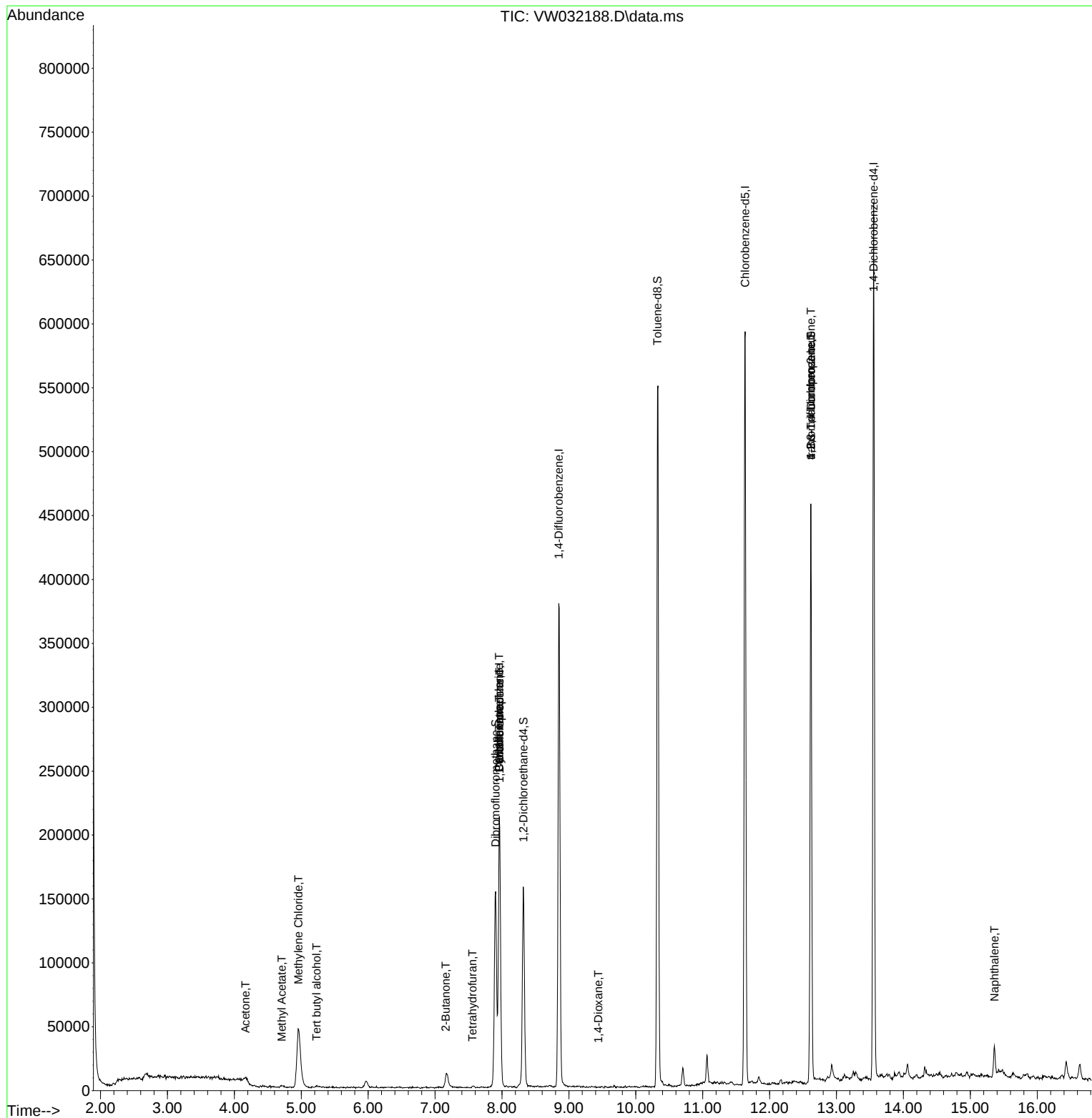
Internal Standards						
1) Pentafluorobenzene	7.959	168	142431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	307406	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	310863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	157856	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	125317	61.522	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 123.040%			
35) Dibromofluoromethane	7.904	113	107622	49.900	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 99.800%			
50) Toluene-d8	10.325	98	357784	47.256	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 94.520%			
62) 4-Bromofluorobenzene	12.617	95	142391	50.859	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.720%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.228	59	428	3.435	ug/l	94
16) Acetone	4.167	43	3163	7.170	ug/l #	81
18) Methyl Acetate	4.710	43	2805	1.996	ug/l #	85
20) Methylene Chloride	4.960	84	45570	22.762	ug/l	95
25) 2-Butanone	7.161	43	963	1.541	ug/l #	76
29) Tetrahydrofuran	7.557	42	408	1.027	ug/l #	70
31) Cyclohexane	7.959	56	4530	1.812	ug/l #	32
36) 1,1-Dichloropropene	7.965	75	13885	4.965	ug/l #	51
38) Carbon Tetrachloride	7.959	117	16326	5.446	ug/l #	18
49) 1,4-Dioxane	9.441	88	21	1.189	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	81495	41.209	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	81495	110.953	ug/l #	5
95) Naphthalene	15.360	128	19378	2.749	ug/l	95

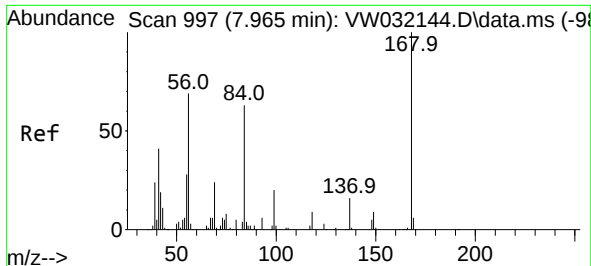
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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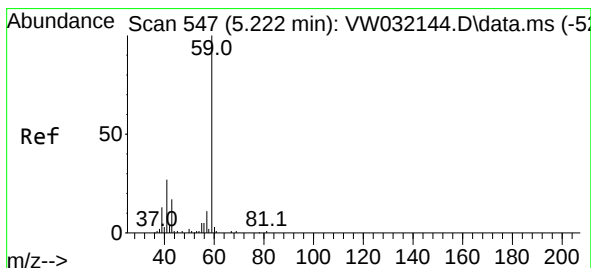
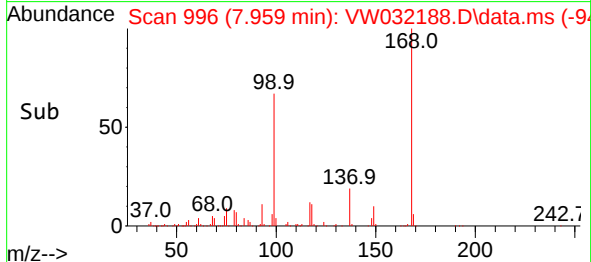
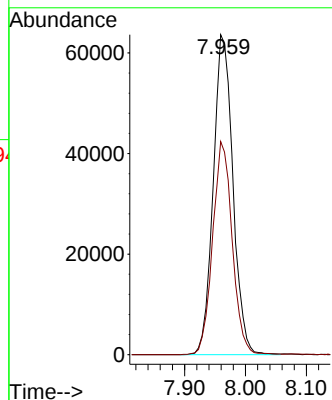
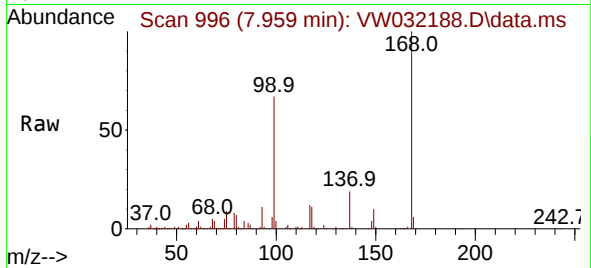




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

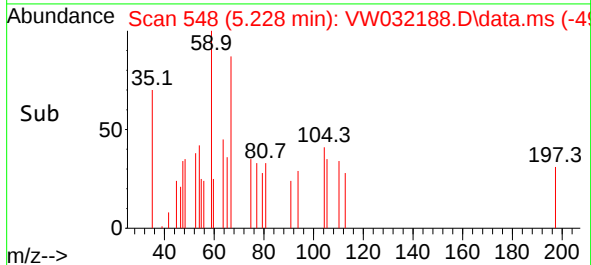
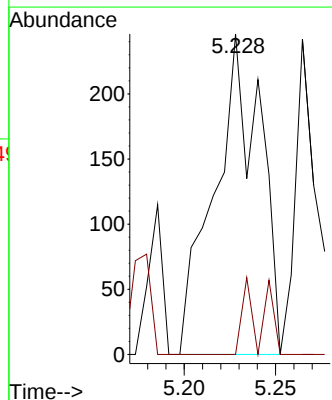
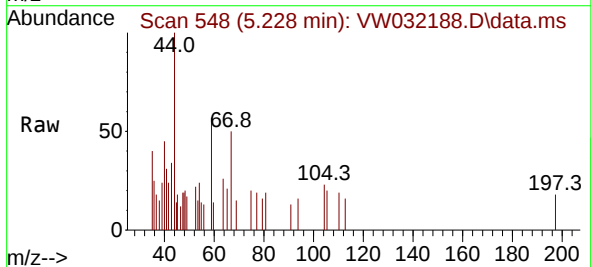
Instrument :
MSVOA_W
ClientSampleId :

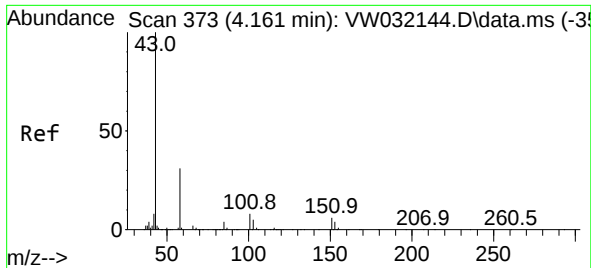
Tgt Ion:168 Resp: 142431
Ion Ratio Lower Upper
168 100
99 66.6 49.3 73.9



#11
Tert butyl alcohol
Concen: 3.435 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.006 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

Tgt Ion: 59 Resp: 428
Ion Ratio Lower Upper
59 100
57 9.8 9.8 14.6





#16

Acetone

Concen: 7.170 ug/l

RT: 4.167 min Scan# 31

Delta R.T. 0.006 min

Lab File: VW032188.D

Acq: 17 Sep 2025 14:37

Instrument :

MSVOA_W

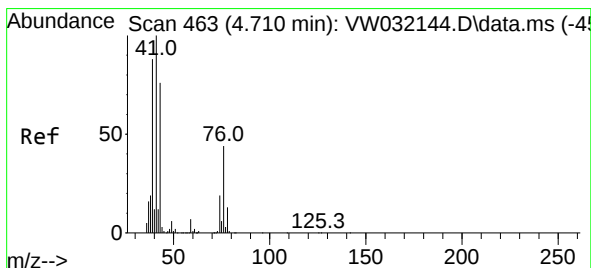
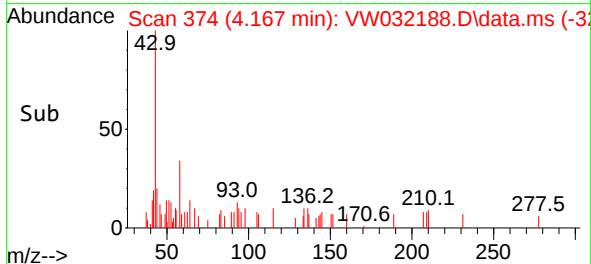
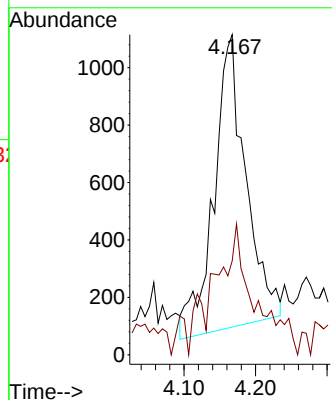
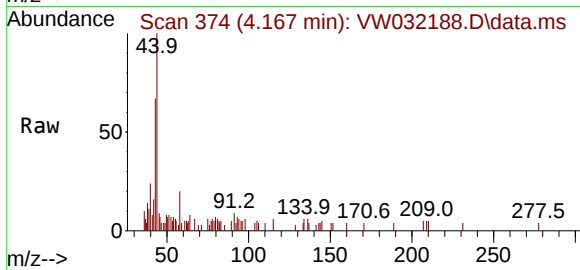
ClientSampleId :

Tgt Ion: 43 Resp: 3163

Ion Ratio Lower Upper

43 100

58 20.9 25.3 37.9#



#18

Methyl Acetate

Concen: 1.996 ug/l

RT: 4.710 min Scan# 463

Delta R.T. 0.000 min

Lab File: VW032188.D

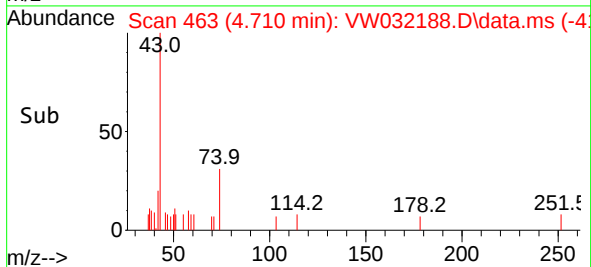
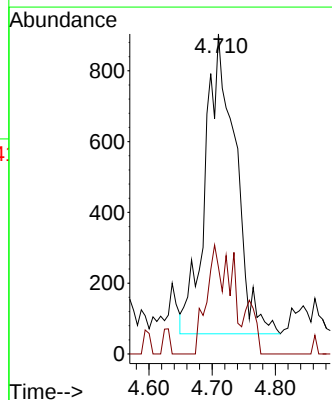
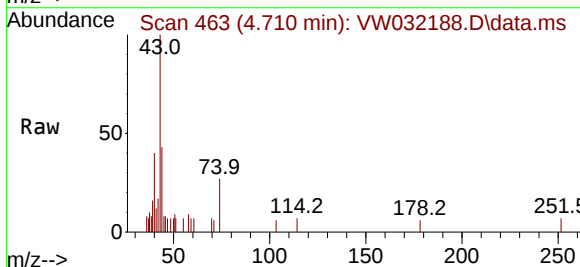
Acq: 17 Sep 2025 14:37

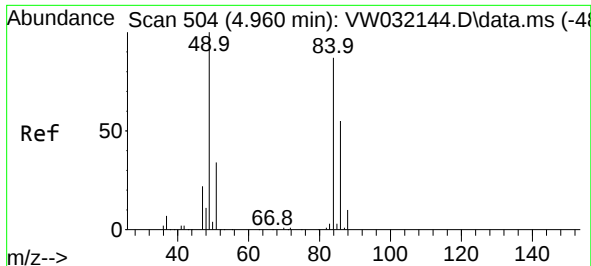
Tgt Ion: 43 Resp: 2805

Ion Ratio Lower Upper

43 100

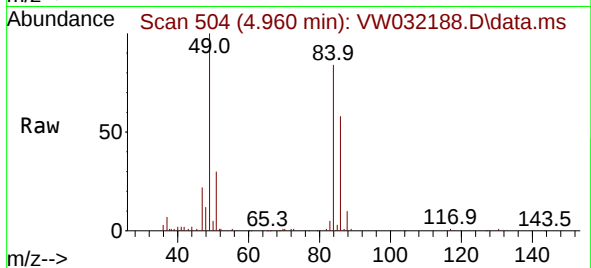
74 17.6 20.2 30.4#



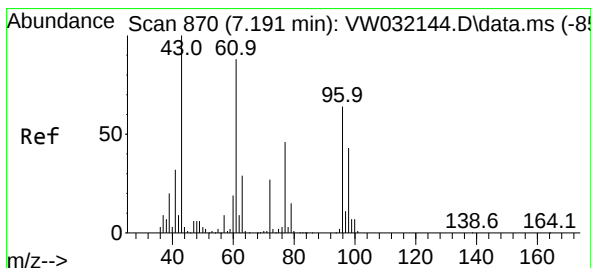
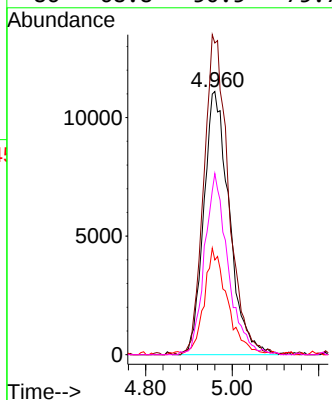
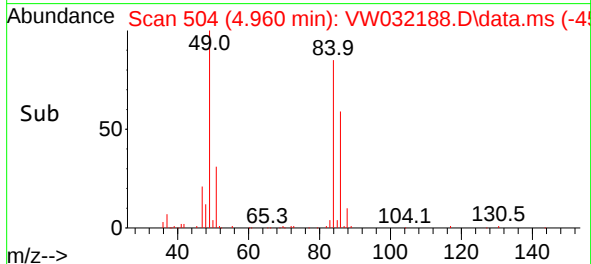


#20
Methylene Chloride
Concen: 22.762 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

Instrument :
MSVOA_W
ClientSampleId :

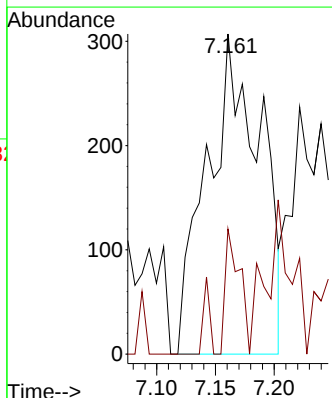
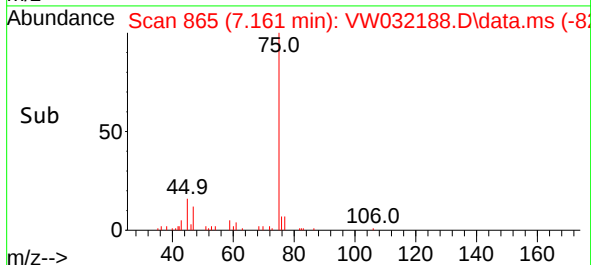
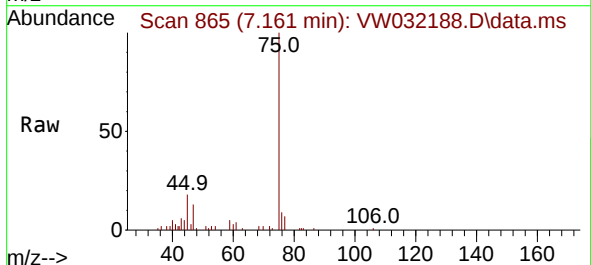


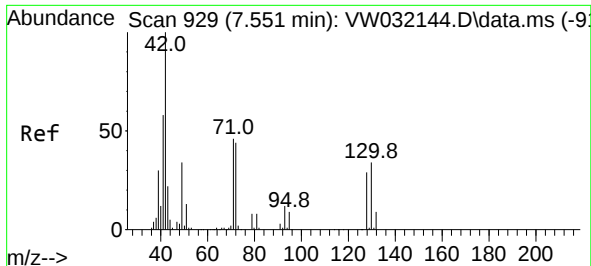
Tgt Ion:	84	Resp:	45570
Ion	Ratio	Lower	Upper
84	100		
49	118.4	92.2	138.4
51	35.5	31.0	46.6
86	68.8	50.5	75.7



#25
2-Butanone
Concen: 1.541 ug/l
RT: 7.161 min Scan# 865
Delta R.T. -0.030 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

Tgt Ion:	43	Resp:	963
Ion	Ratio	Lower	Upper
43	100		
72	39.1	21.4	32.2#

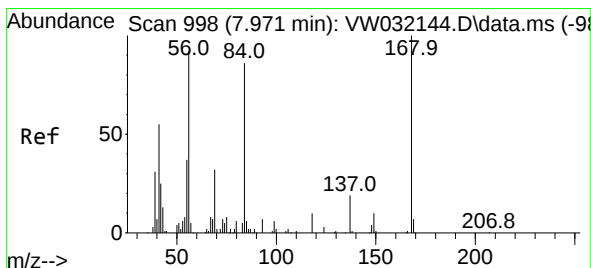
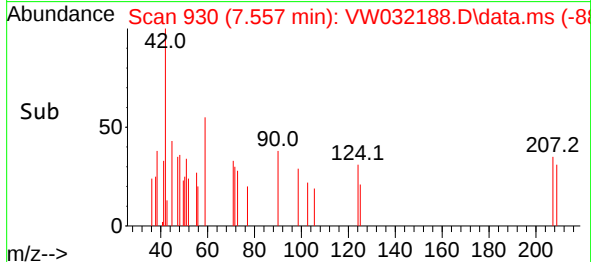
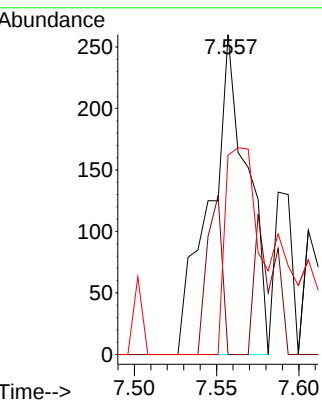
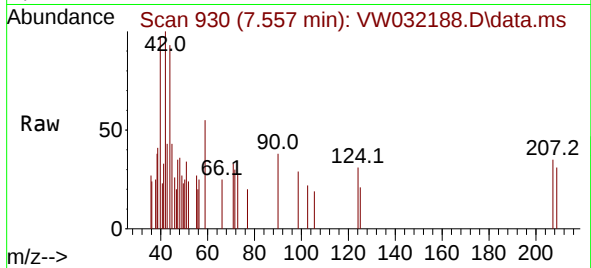




#29
Tetrahydrofuran
Concen: 1.027 ug/l
RT: 7.557 min Scan# 911
Delta R.T. 0.006 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

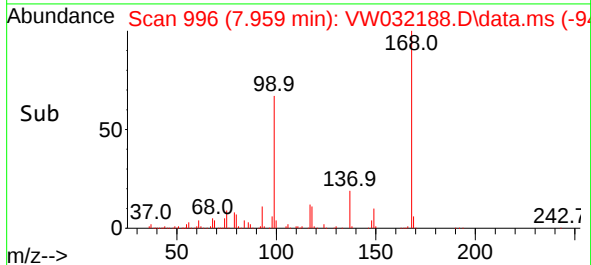
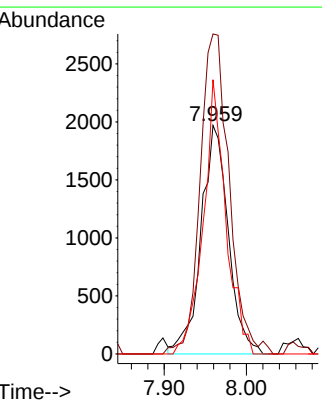
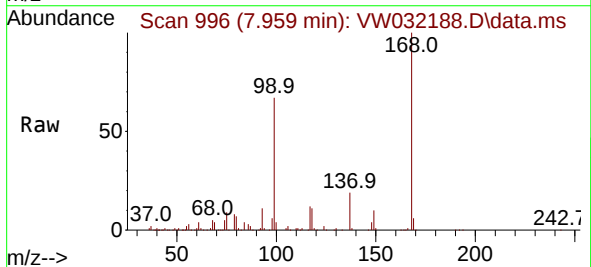
Instrument :
MSVOA_W
ClientSampleId :

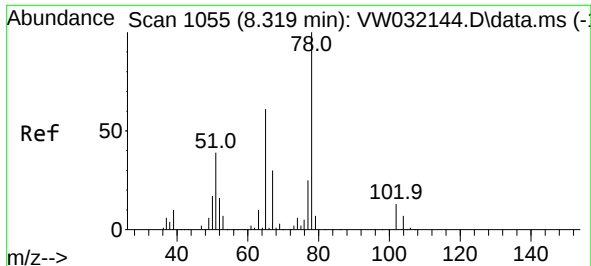
Tgt Ion: 42 Resp: 408
Ion Ratio Lower Upper
42 100
72 20.1 37.4 56.2#
71 58.1 36.0 54.0#



#31
Cyclohexane
Concen: 1.812 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

Tgt Ion: 56 Resp: 4530
Ion Ratio Lower Upper
56 100
69 137.4 27.7 41.5#
84 120.1 74.6 112.0#





#33

1,2-Dichloroethane-d4

Concen: 61.522 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW032188.D

Acq: 17 Sep 2025 14:37

Instrument :

MSVOA_W

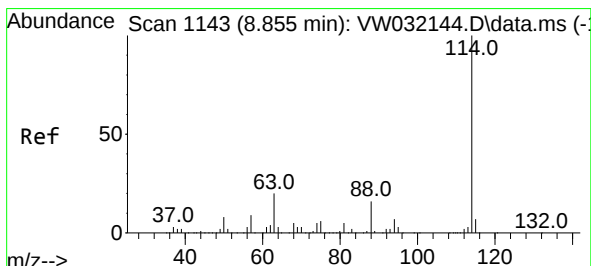
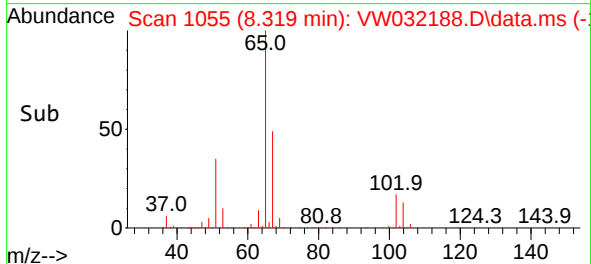
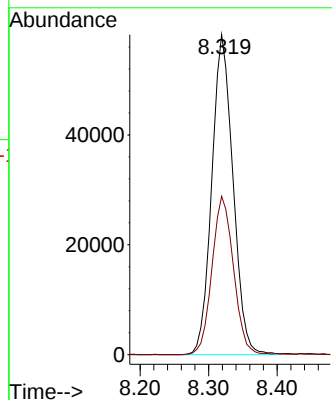
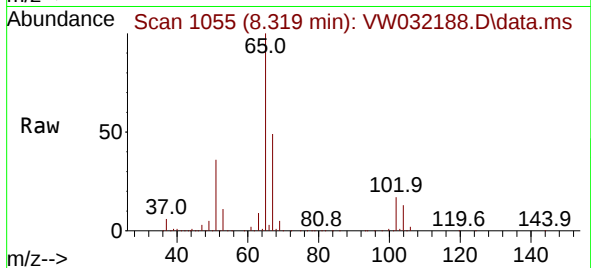
ClientSampleId :

Tgt Ion: 65 Resp: 125317

Ion Ratio Lower Upper

65 100

67 50.3 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: VW032188.D

Acq: 17 Sep 2025 14:37

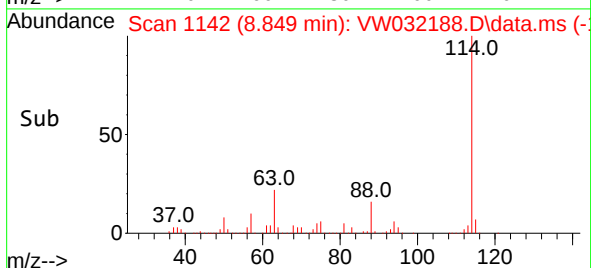
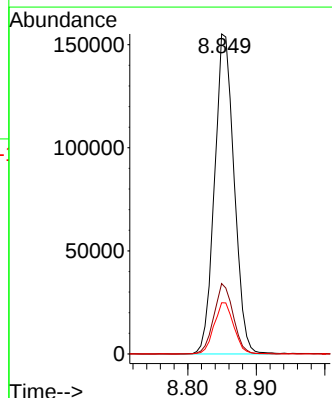
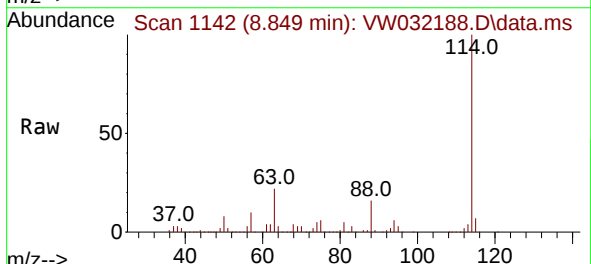
Tgt Ion: 114 Resp: 307406

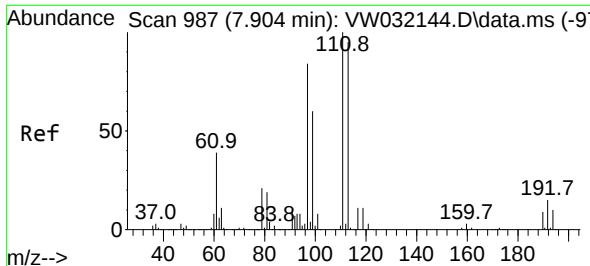
Ion Ratio Lower Upper

114 100

63 21.9 0.0 40.4

88 16.0 0.0 32.0

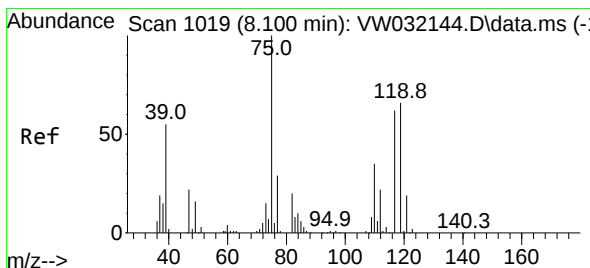
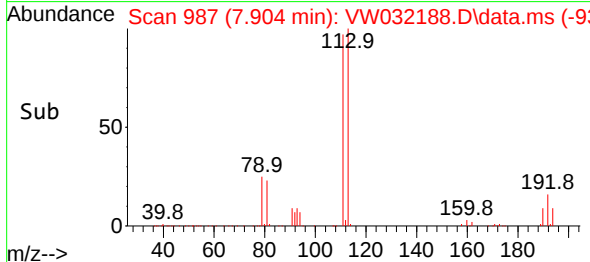
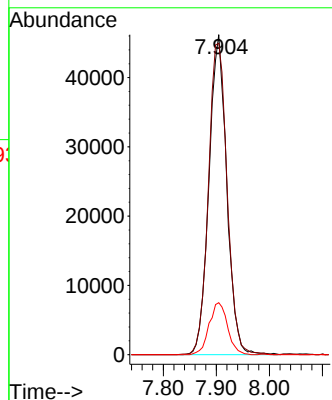
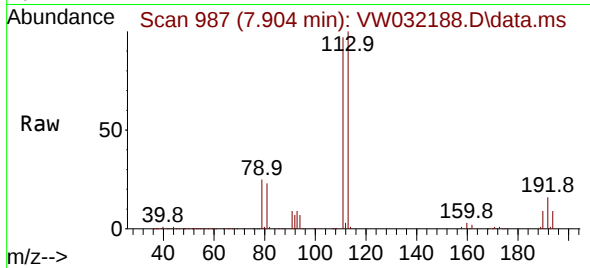




#35
Dibromofluoromethane
Concen: 49.900 ug/l
RT: 7.904 min Scan# 911
Delta R.T. 0.000 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

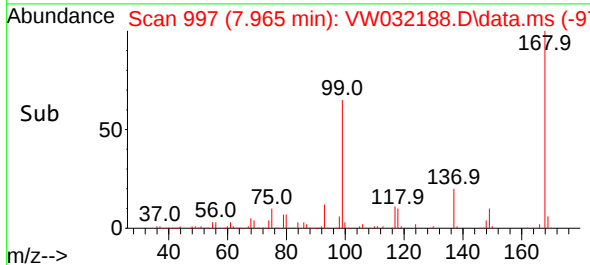
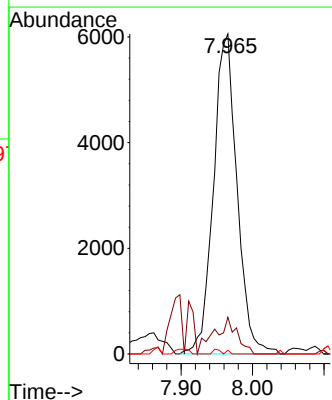
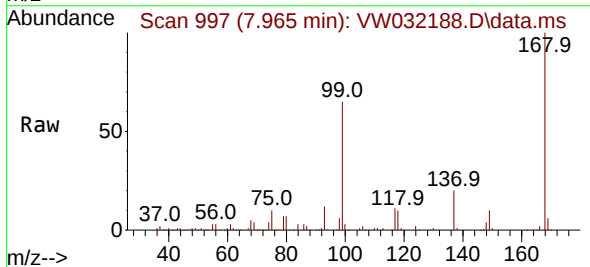
Instrument :
MSVOA_W
ClientSampleId :

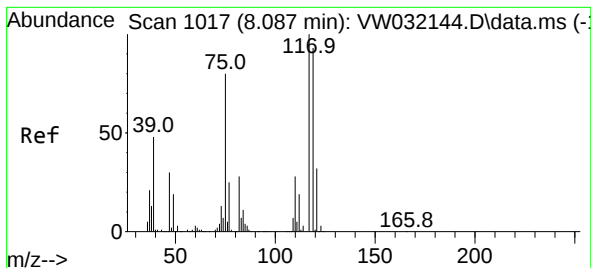
Tgt Ion:113 Resp: 107622
Ion Ratio Lower Upper
113 100
111 102.5 83.9 125.9
192 16.8 14.6 21.8



#36
1,1-Dichloropropene
Concen: 4.965 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.134 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

Tgt Ion: 75 Resp: 13885
Ion Ratio Lower Upper
75 100
110 9.6 17.5 52.5#
77 0.6 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.446 ug/l

RT: 7.959 min Scan# 91

Delta R.T. -0.128 min

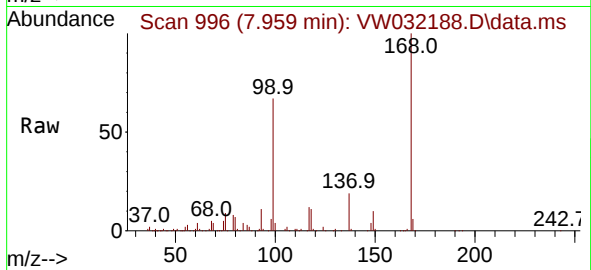
Lab File: VW032188.D

Acq: 17 Sep 2025 14:37

Instrument :

MSVOA_W

ClientSampleId :



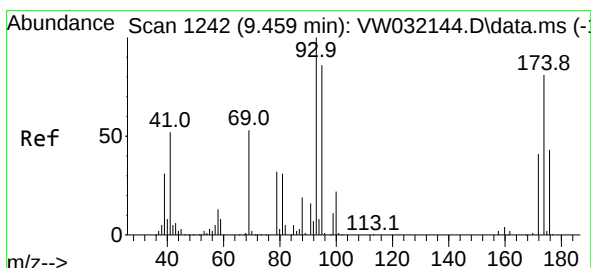
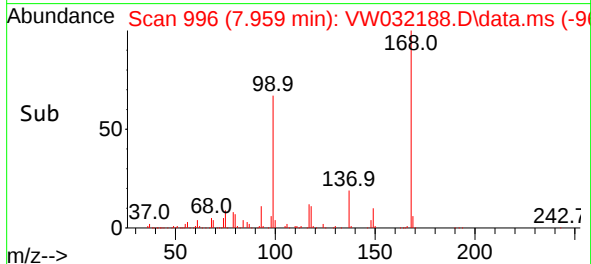
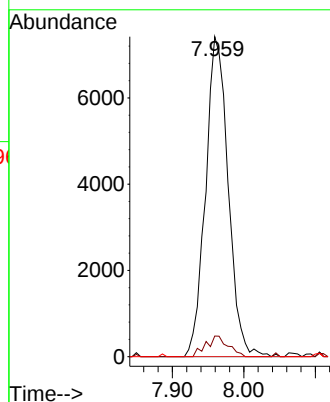
Tgt Ion:117 Resp: 16326

Ion Ratio Lower Upper

117 100

119 6.5 74.2 111.2#

121 0.0 25.6 38.4#



#49

1,4-Dioxane

Concen: 1.189 ug/l

RT: 9.441 min Scan# 1239

Delta R.T. -0.018 min

Lab File: VW032188.D

Acq: 17 Sep 2025 14:37

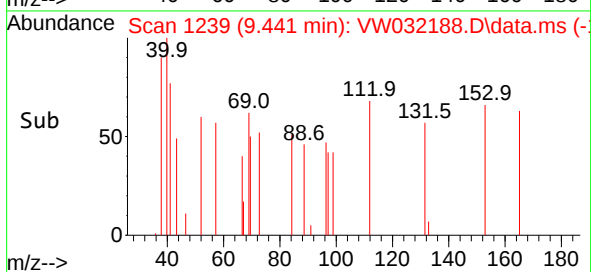
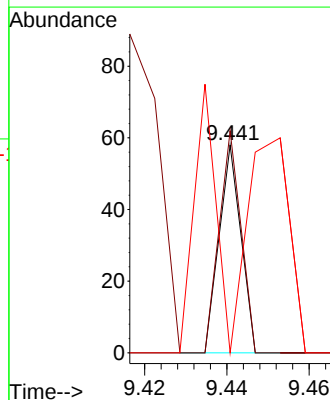
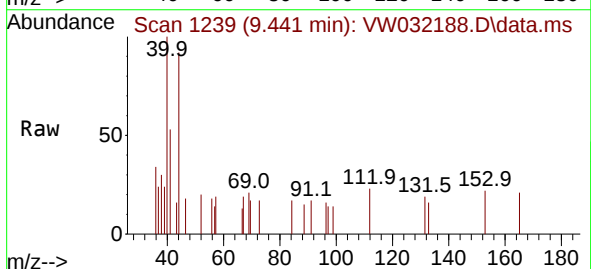
Tgt Ion: 88 Resp: 21

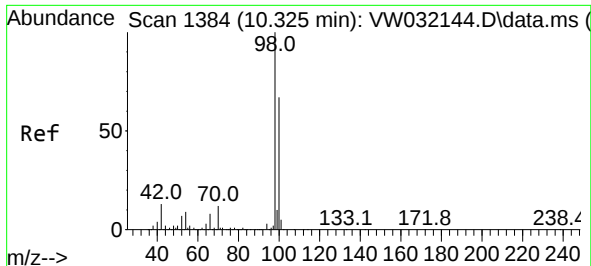
Ion Ratio Lower Upper

88 100

43 109.5 18.0 27.0#

58 128.6 55.4 83.0#

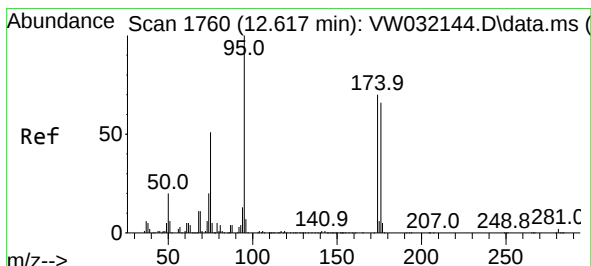
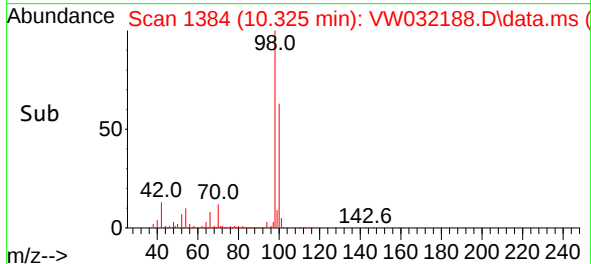
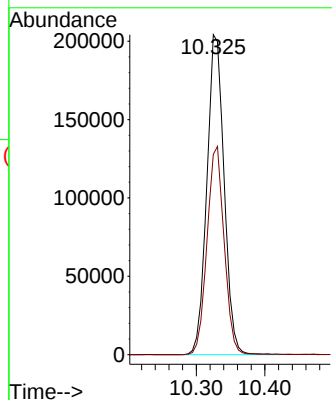
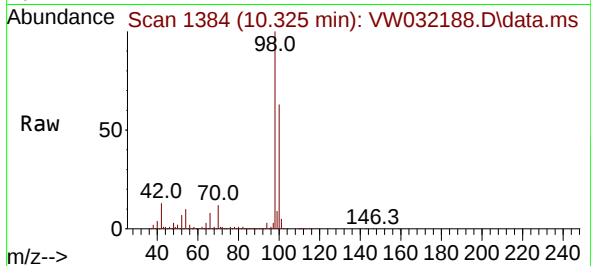




#50
Toluene-d8
Concen: 47.256 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

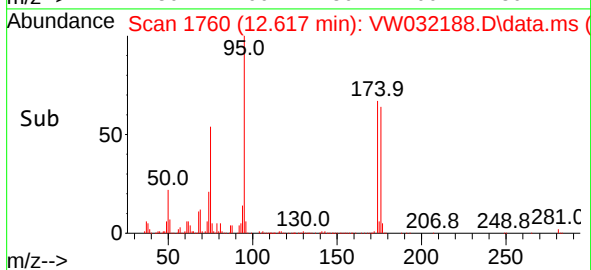
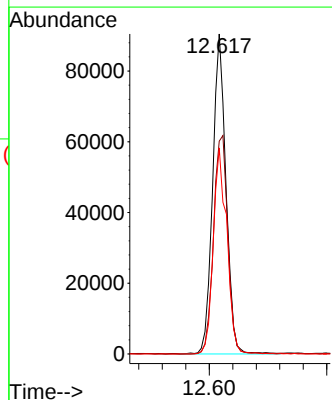
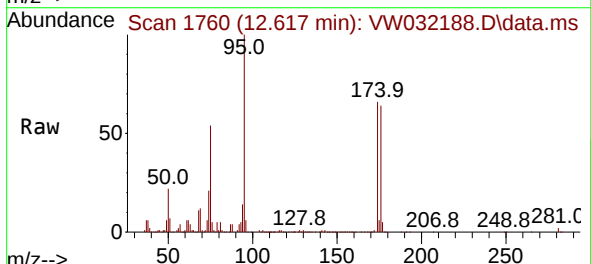
Instrument :
MSVOA_W
ClientSampleId :

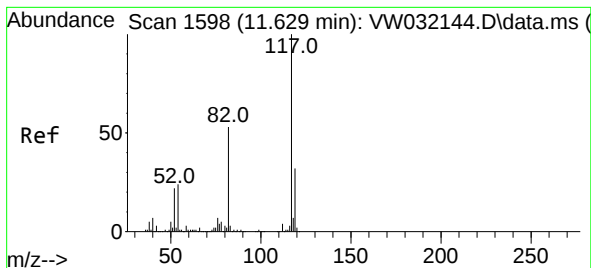
Tgt Ion: 98 Resp: 357784
Ion Ratio Lower Upper
98 100
100 64.7 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 50.859 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

Tgt Ion: 95 Resp: 142391
Ion Ratio Lower Upper
95 100
174 73.4 0.0 145.6
176 65.7 0.0 140.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032188.D

Acq: 17 Sep 2025 14:37

Instrument :

MSVOA_W

ClientSampleId :

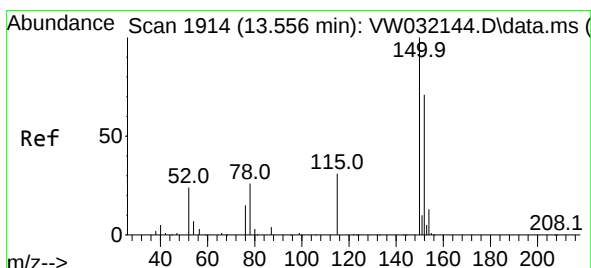
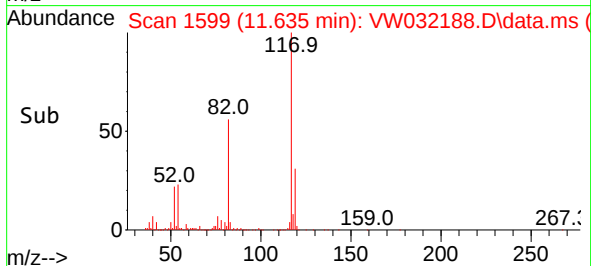
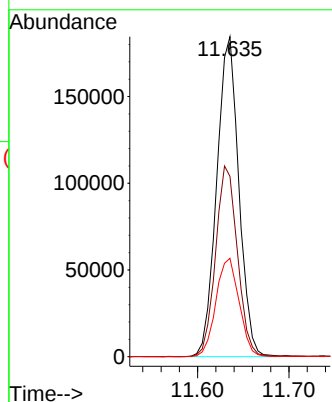
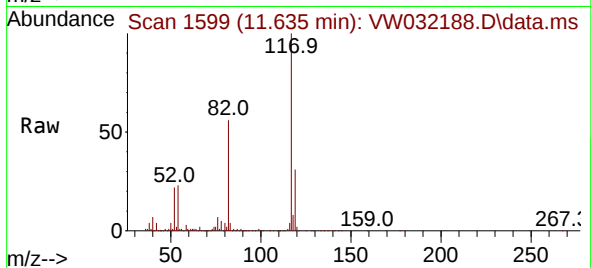
Tgt Ion:117 Resp: 310863

Ion Ratio Lower Upper

117 100

82 56.3 42.7 64.1

119 30.7 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: VW032188.D

Acq: 17 Sep 2025 14:37

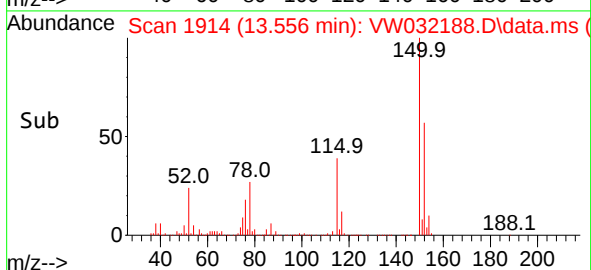
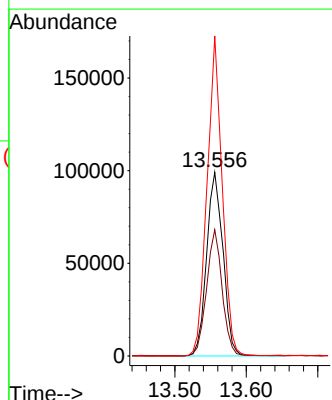
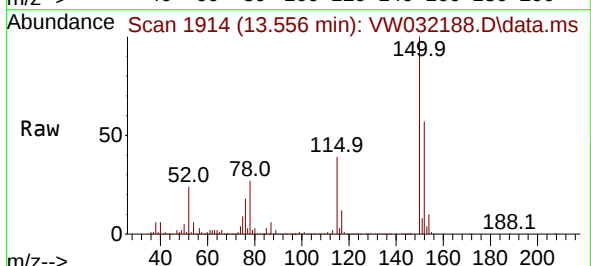
Tgt Ion:152 Resp: 157856

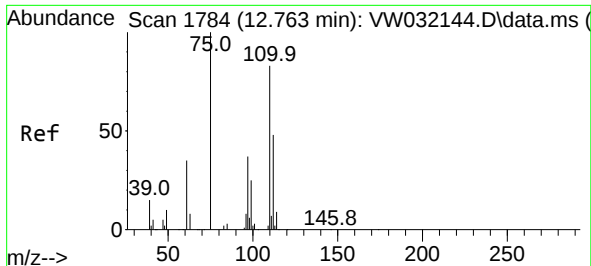
Ion Ratio Lower Upper

152 100

115 65.6 31.8 95.4

150 161.2 0.0 343.0

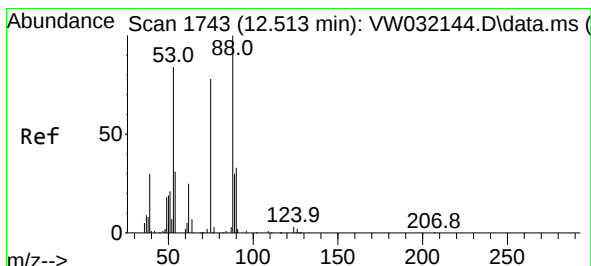
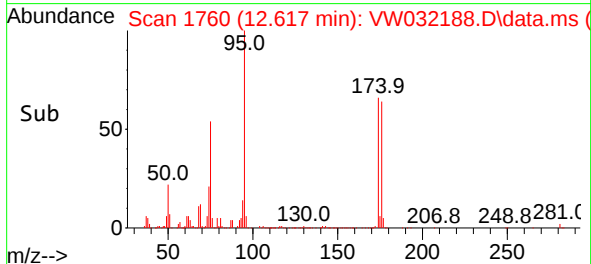
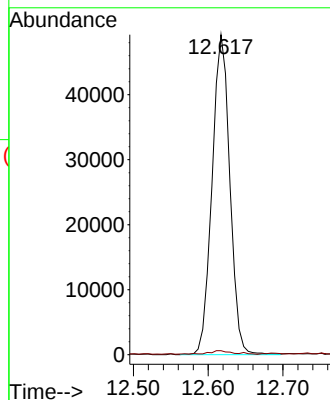
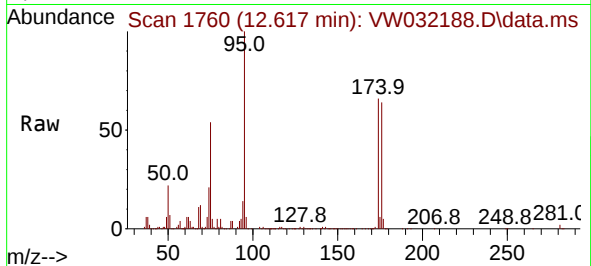




#76
1,2,3-Trichloropropane
Concen: 41.209 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

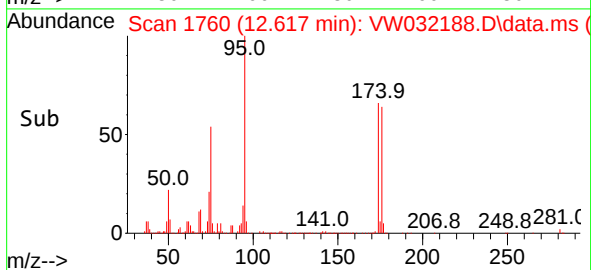
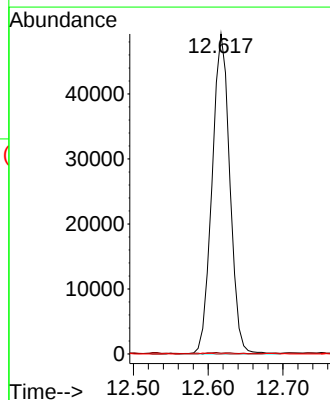
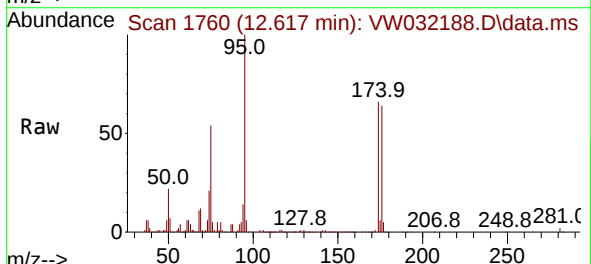
Instrument :
MSVOA_W
ClientSampleId :

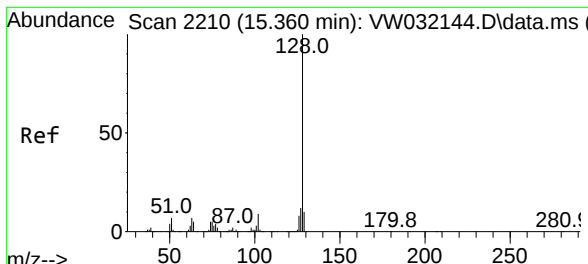
Tgt Ion: 75 Resp: 81495
Ion Ratio Lower Upper
75 100
77 1.5 141.7 425.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 110.953 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032188.D
Acq: 17 Sep 2025 14:37

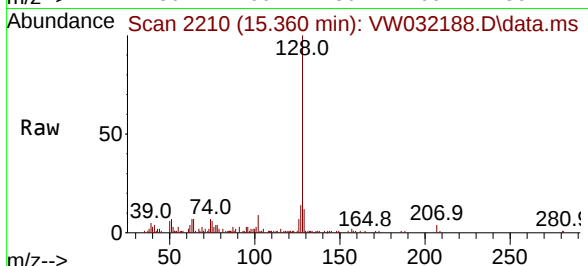
Tgt Ion: 75 Resp: 81495
Ion Ratio Lower Upper
75 100
53 0.5 91.0 136.6#
89 0.0 39.4 59.2#





#95
 Naphthalene
 Concen: 2.749 ug/l
 RT: 15.360 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VW032188.D
 Acq: 17 Sep 2025 14:37

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:	128	Resp:	19378
Ion Ratio	Lower	Upper	
128	100		
127	15.1	10.6	16.0
129	12.3	8.4	12.6

