

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088124.D
 Acq On : 27 Oct 2025 18:41
 Operator : JC\MD
 Sample : Q3468-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11

Quant Time: Oct 28 01:34:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	263533	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	588016	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	556110	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	269618	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	239685	52.597	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.200%	
35) Dibromofluoromethane	8.147	113	179378	45.408	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 90.820%	
50) Toluene-d8	10.547	98	677929	44.538	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 89.080%	
62) 4-Bromofluorobenzene	12.829	95	269183	50.075	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 100.160%	

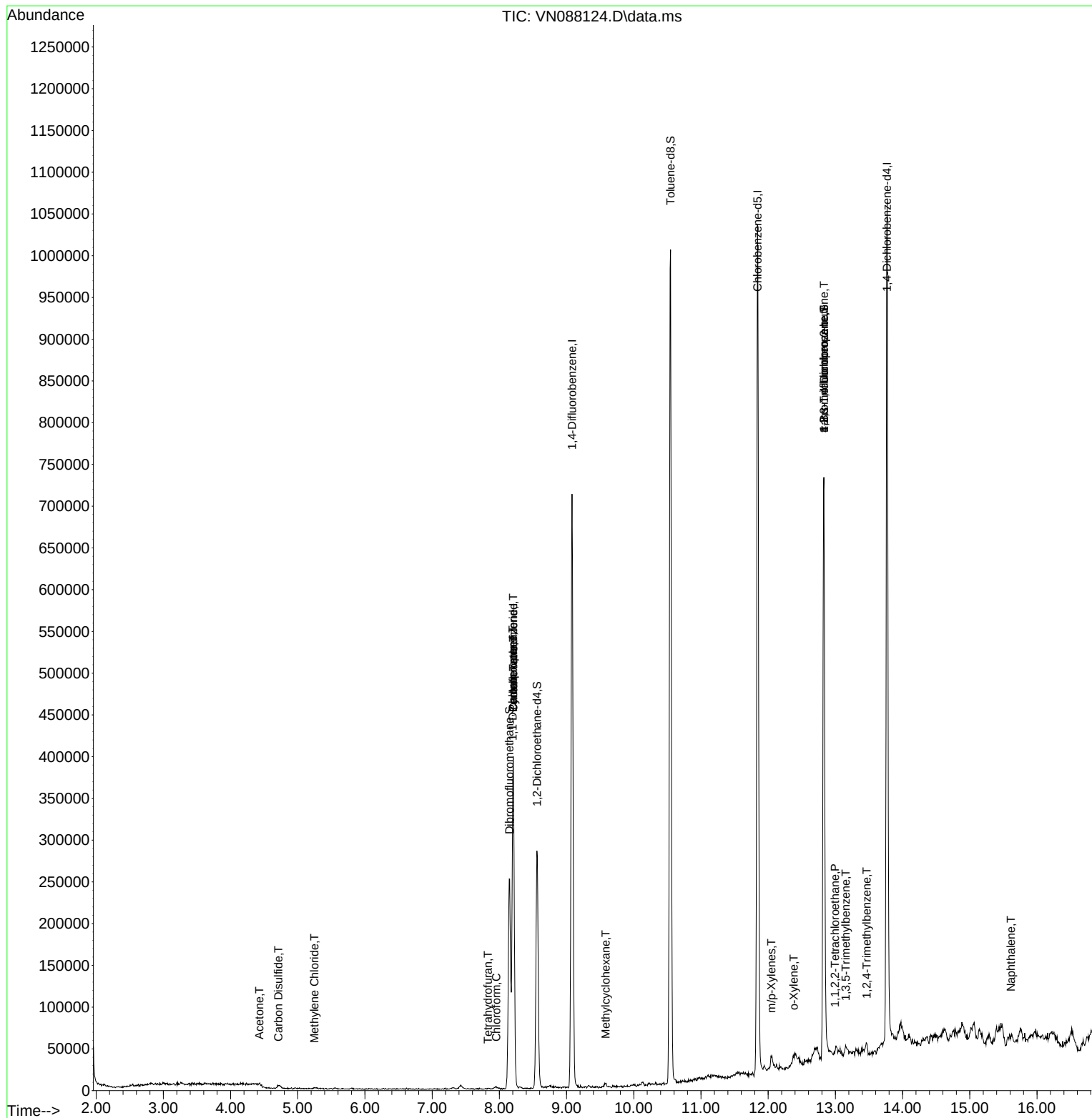
Target Compounds				Qvalue		
16) Acetone	4.430	43	4963	2.168	ug/l	99
17) Carbon Disulfide	4.712	76	2043	0.203	ug/l #	74
20) Methylene Chloride	5.247	84	94	0.799	ug/l #	5
29) Tetrahydrofuran	7.830	42	545	0.277	ug/l #	34
30) Chloroform	7.953	83	3086	0.457	ug/l #	67
31) Cyclohexane	8.206	56	8557	1.341	ug/l #	1
36) 1,1-Dichloropropene	8.200	75	25113	4.354	ug/l #	52
38) Carbon Tetrachloride	8.206	117	30371	5.098	ug/l #	16
39) Methylcyclohexane	9.582	83	2561	0.345	ug/l #	78
68) m/p-Xylenes	12.047	106	6195	0.746	ug/l	76
69) o-Xylene	12.382	106	1946	0.247	ug/l	60
75) 1,1,2,2-Tetrachloroethane	12.994	83	2676	0.413	ug/l	70
76) 1,2,3-Trichloropropane	12.829	75	157521	25.554	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.153	105	3734	0.216	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.829	75	157521	71.283	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.465	105	6797	0.393	ug/l	75
95) Naphthalene	15.611	128	3912	0.219	ug/l #	70

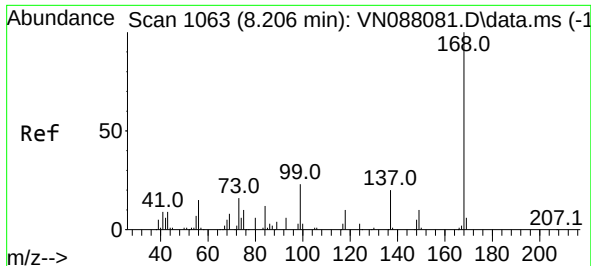
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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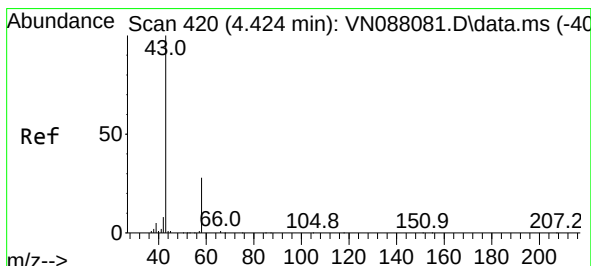
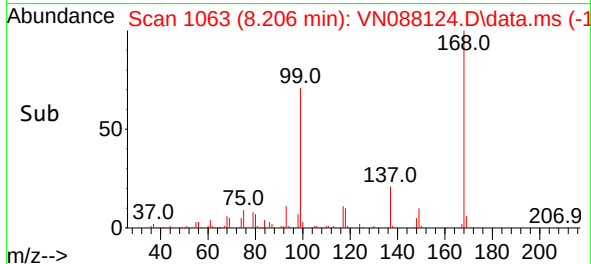
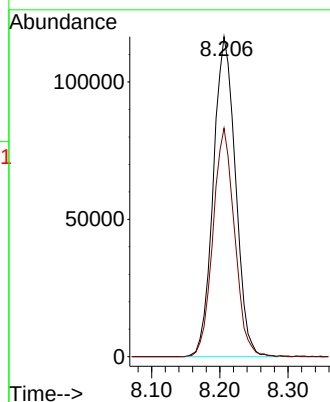
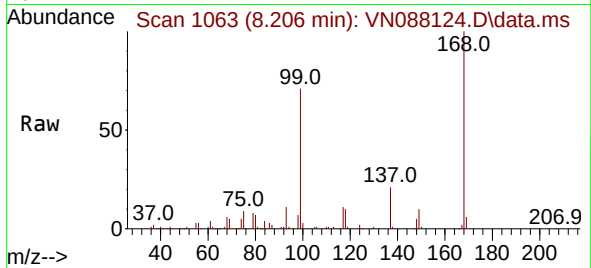




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

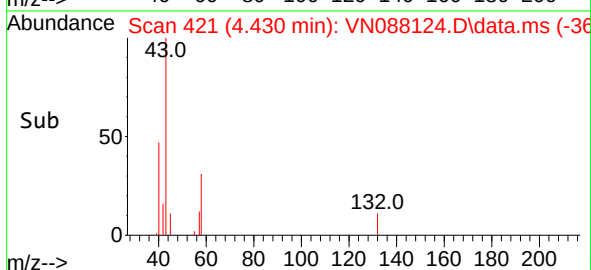
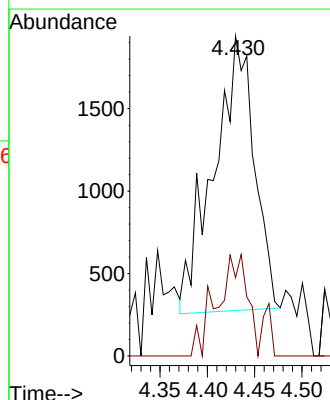
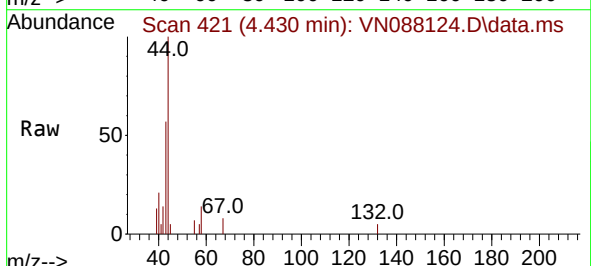
Instrument :
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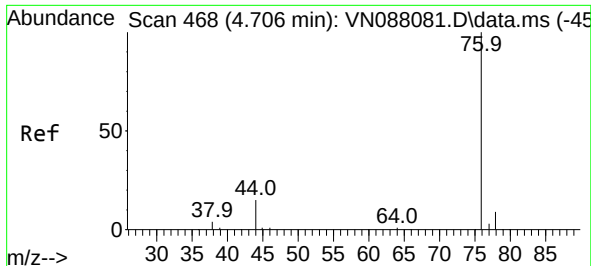
Tgt Ion:168 Resp: 263533
Ion Ratio Lower Upper
168 100
99 71.4 57.2 85.8



#16
Acetone
Concen: 2.168 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion: 43 Resp: 4963
Ion Ratio Lower Upper
43 100
58 28.8 22.6 33.8

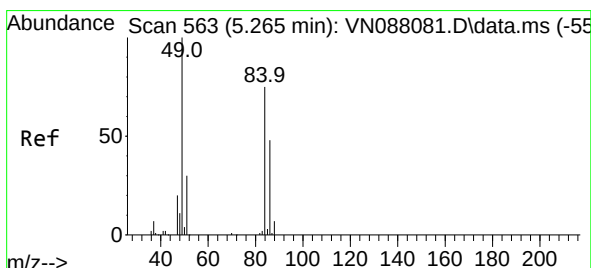
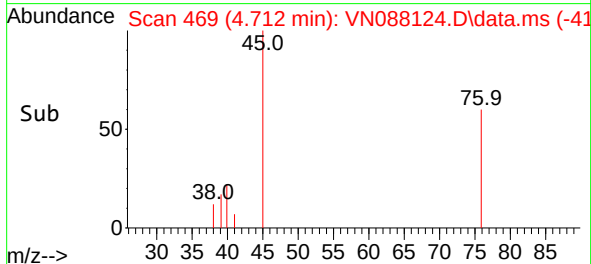
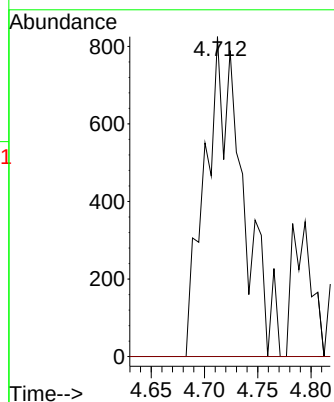
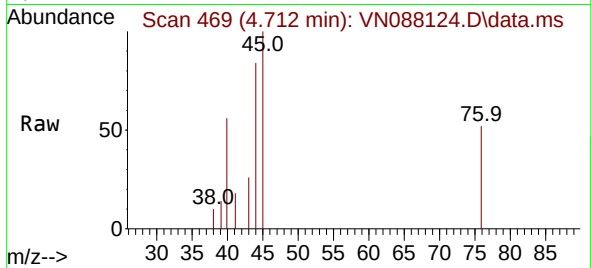




#17
Carbon Disulfide
Concen: 0.203 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

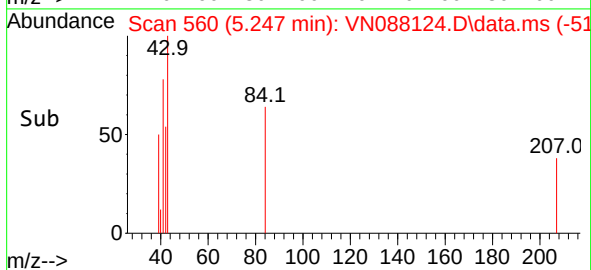
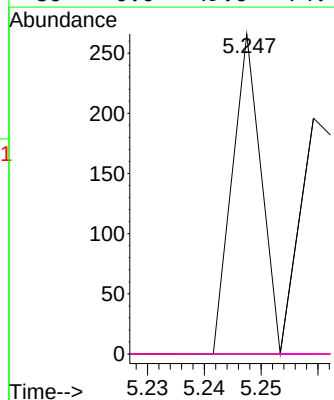
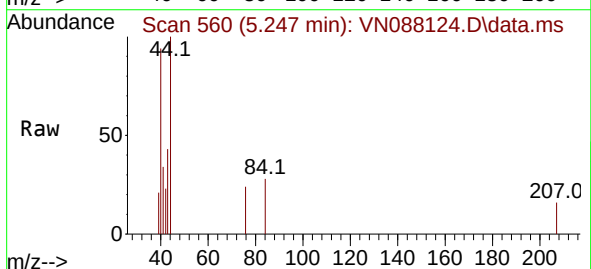
Instrument :
MSVOA_N
ClientSampleId :
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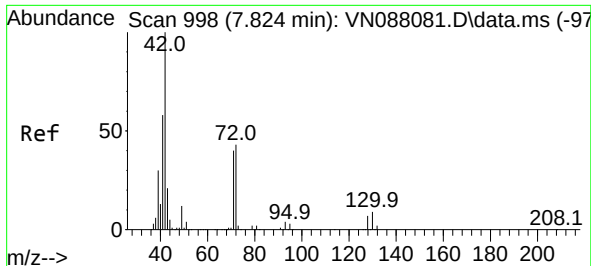
Tgt Ion: 76 Resp: 2043
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#20
Methylene Chloride
Concen: 0.799 ug/l
RT: 5.247 min Scan# 560
Delta R.T. -0.018 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion: 84 Resp: 94
Ion Ratio Lower Upper
84 100
49 0.0 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#





#29

Tetrahydrofuran

Concen: 0.277 ug/l

RT: 7.830 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN088124.D

Acq: 27 Oct 2025 18:41

Instrument :

MSVOA_N

ClientSampleId :

MW-11

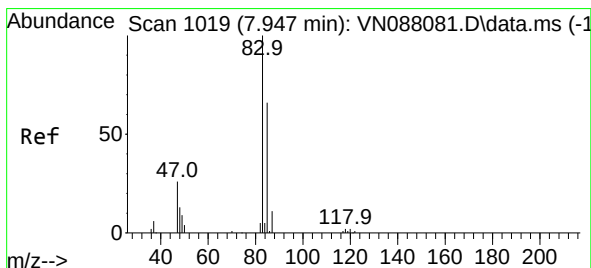
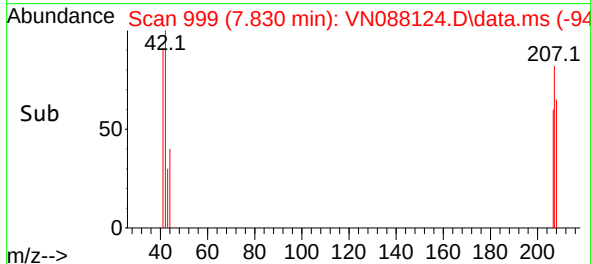
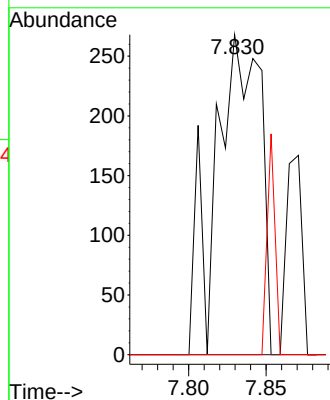
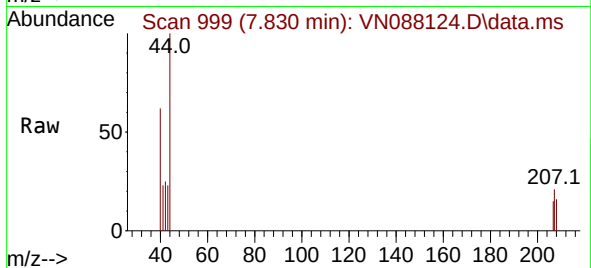
Tgt Ion: 42 Resp: 545

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.9 47.9#



#30

Chloroform

Concen: 0.457 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN088124.D

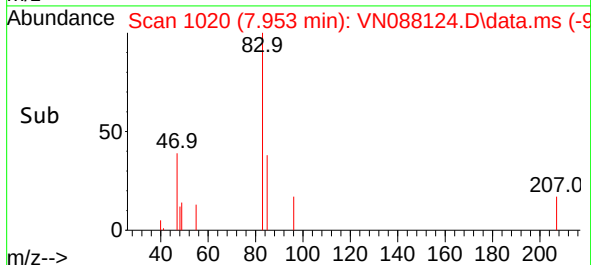
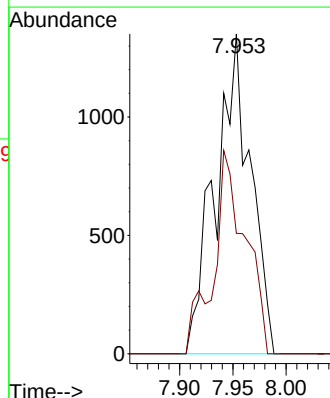
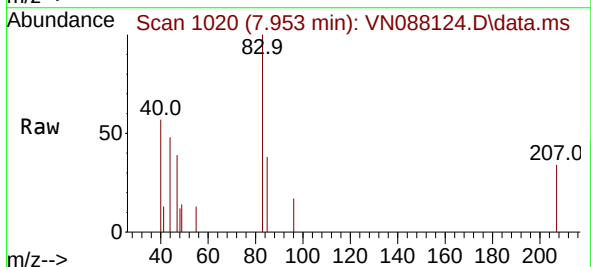
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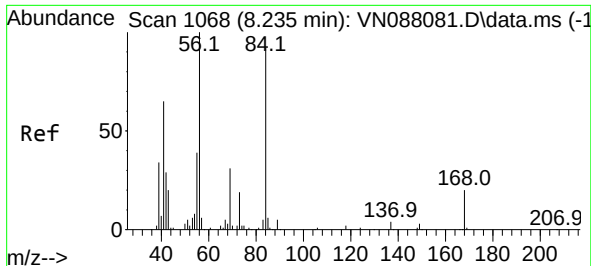
Tgt Ion: 83 Resp: 3086

Ion Ratio Lower Upper

83 100

85 37.7 50.7 76.1#

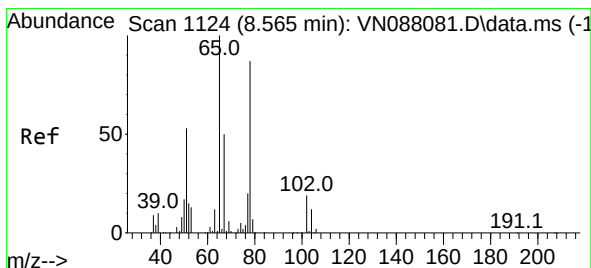
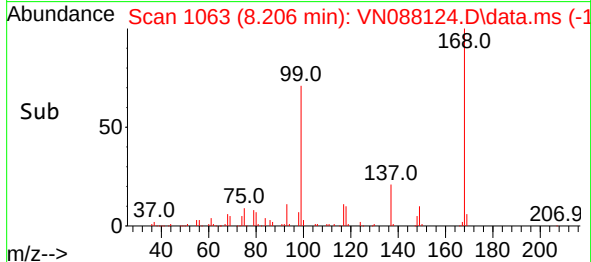
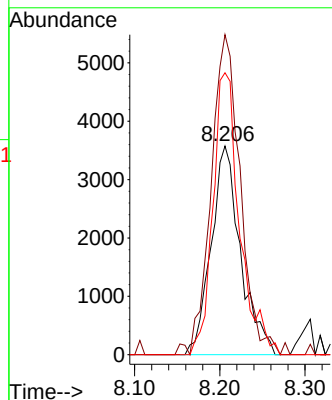
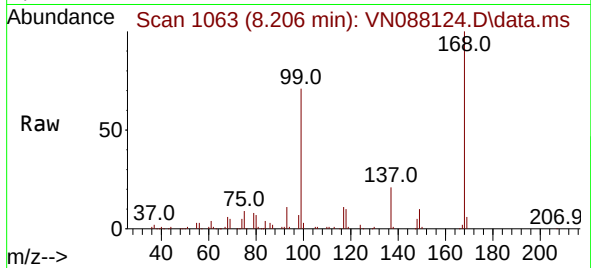




#31
Cyclohexane
Concen: 1.341 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

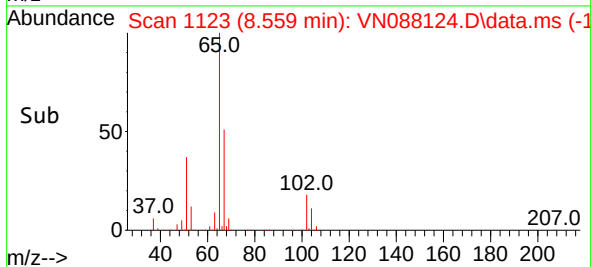
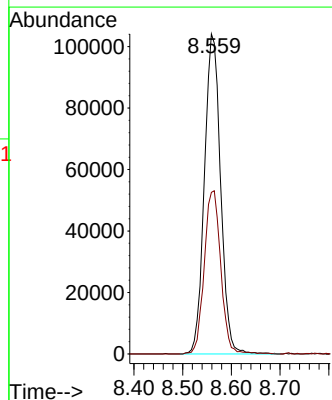
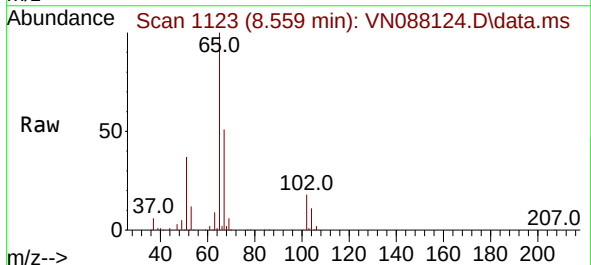
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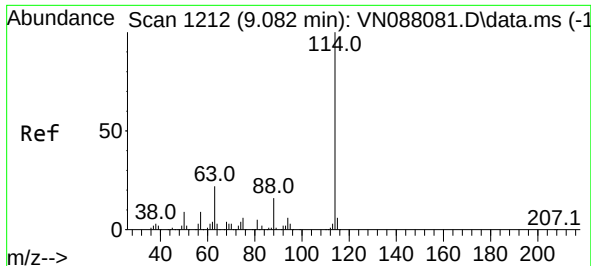
Tgt Ion: 56 Resp: 8557
Ion Ratio Lower Upper
56 100
69 153.3 23.7 35.5#
84 135.1 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 52.597 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion: 65 Resp: 239685
Ion Ratio Lower Upper
65 100
67 52.1 0.0 100.0

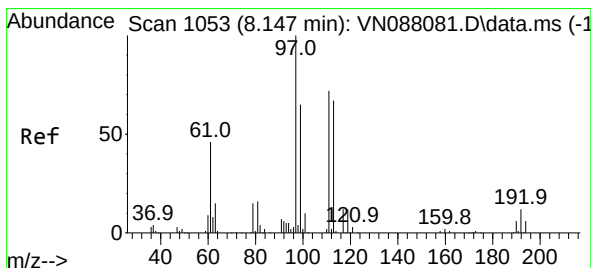
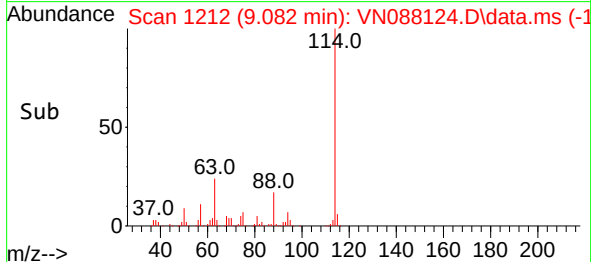
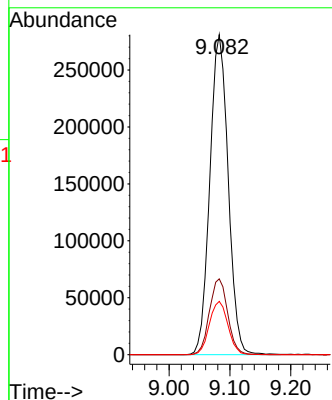
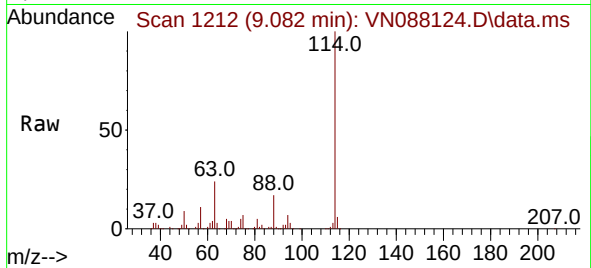




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

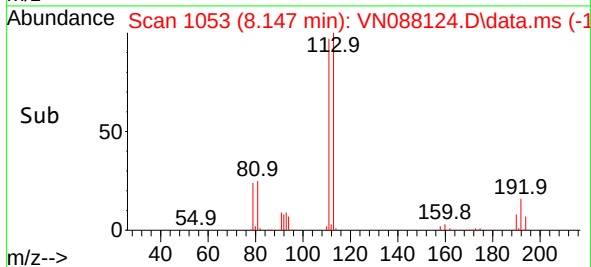
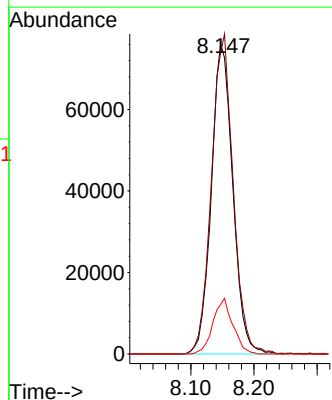
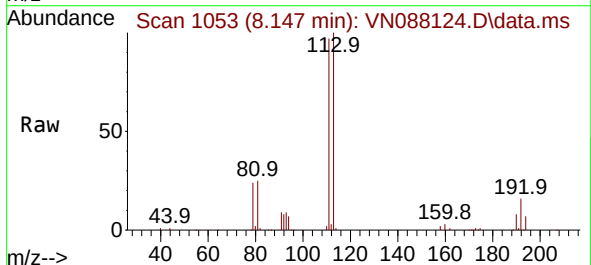
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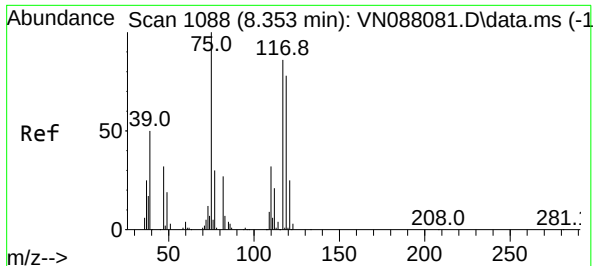
Tgt Ion:114 Resp: 588016
Ion Ratio Lower Upper
114 100
63 23.7 0.0 45.2
88 16.6 0.0 33.4



#35
Dibromofluoromethane
Concen: 45.408 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion:113 Resp: 179378
Ion Ratio Lower Upper
113 100
111 104.5 82.8 124.2
192 16.6 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.354 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088124.D

Acq: 27 Oct 2025 18:41

Instrument :

MSVOA_N

ClientSampleId :

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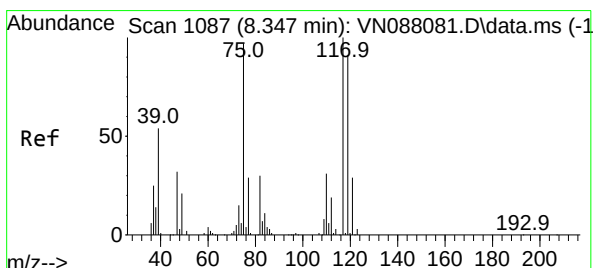
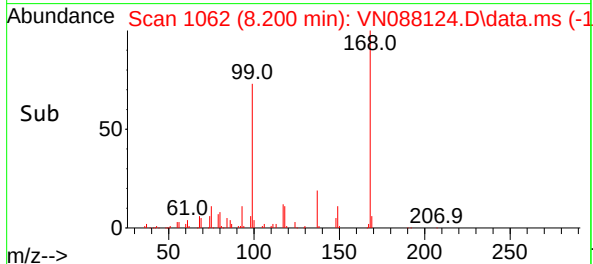
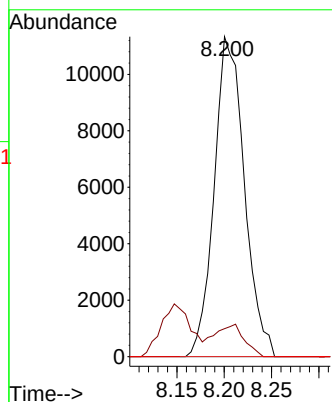
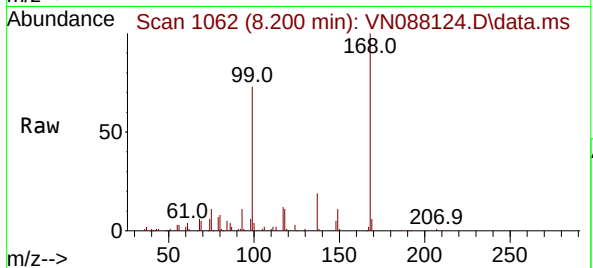
Tgt Ion: 75 Resp: 25113

Ion Ratio Lower Upper

75 100

110 9.2 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.098 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088124.D

Acq: 27 Oct 2025 18:41

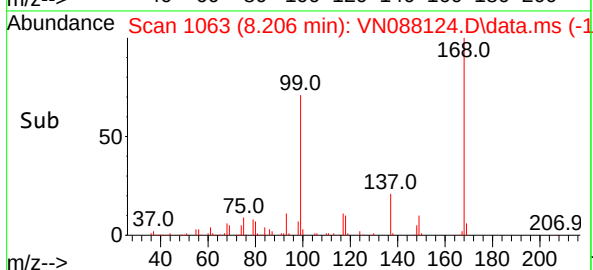
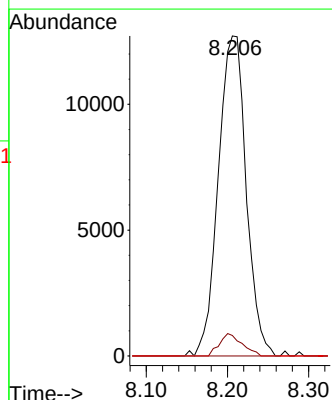
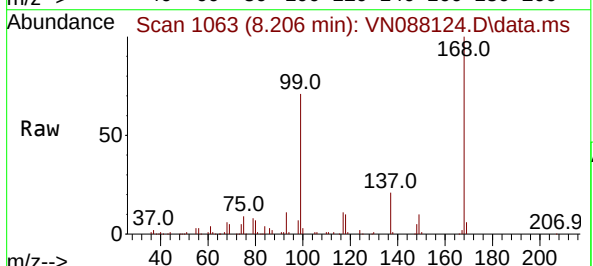
Tgt Ion: 117 Resp: 30371

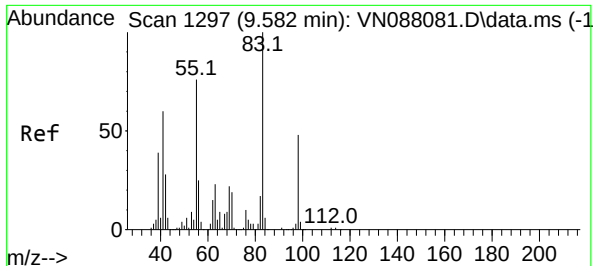
Ion Ratio Lower Upper

117 100

119 6.4 79.0 118.6#

121 0.0 25.0 37.6#

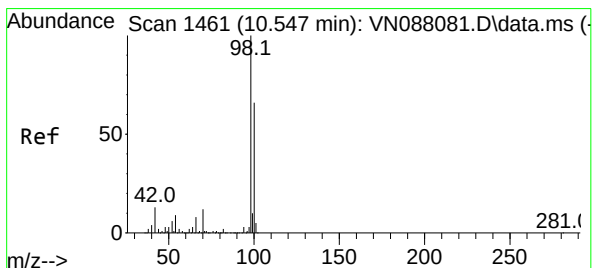
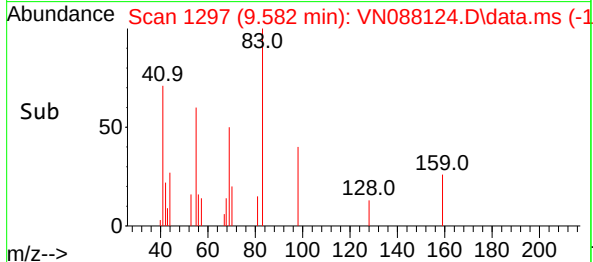
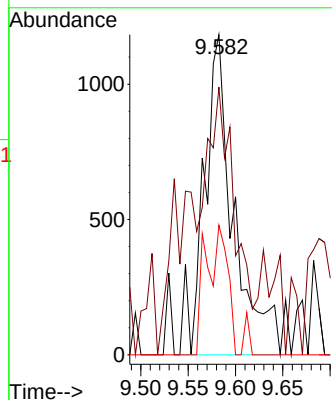
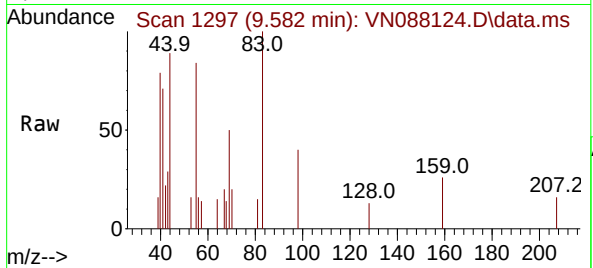




#39
Methylcyclohexane
Concen: 0.345 ug/l
RT: 9.582 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

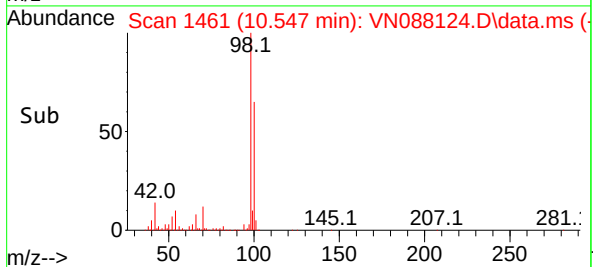
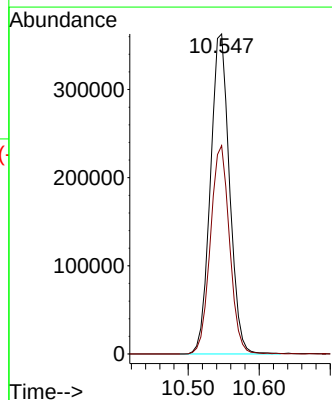
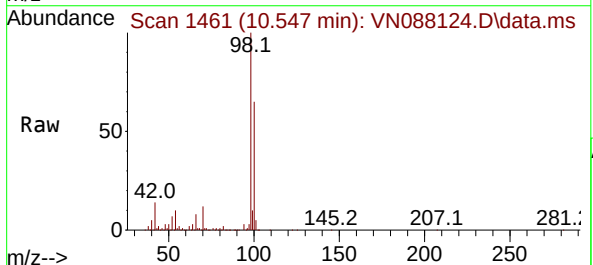
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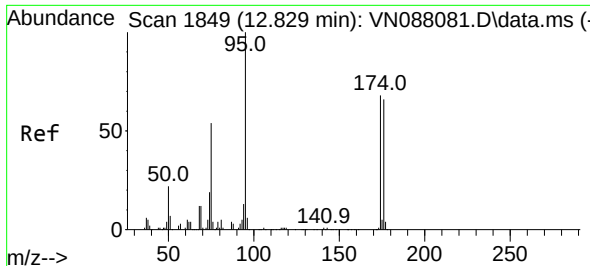
Tgt Ion: 83 Resp: 2561
Ion Ratio Lower Upper
83 100
55 55.3 64.6 96.8#
98 40.5 38.4 57.6



#50
Toluene-d8
Concen: 44.538 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion: 98 Resp: 677929
Ion Ratio Lower Upper
98 100
100 65.2 52.8 79.2

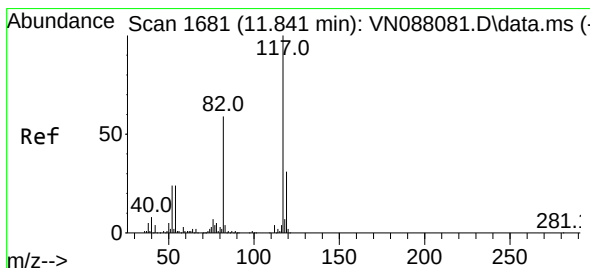
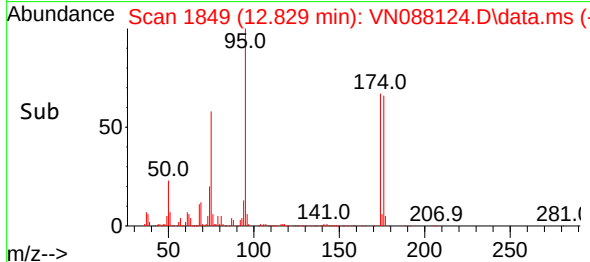
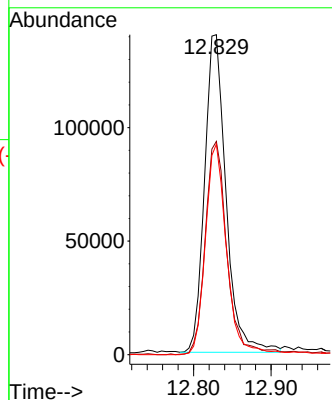
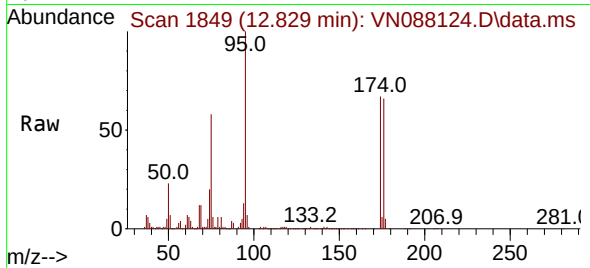




#62
4-Bromofluorobenzene
Concen: 50.075 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

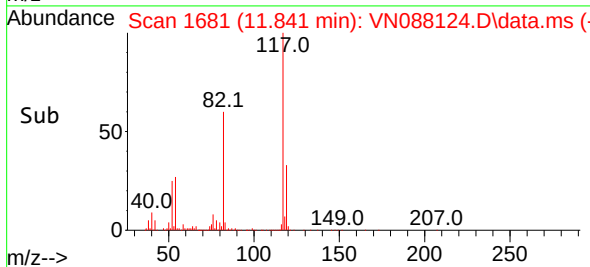
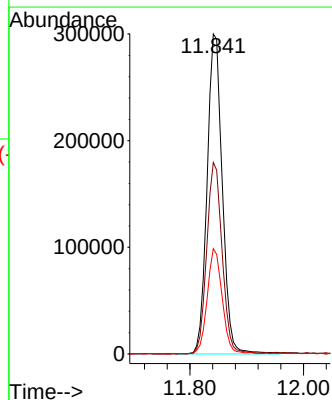
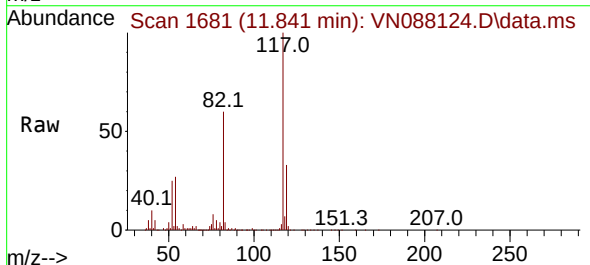
Instrument :
MSVOA_N
ClientSampleId :
MW-11

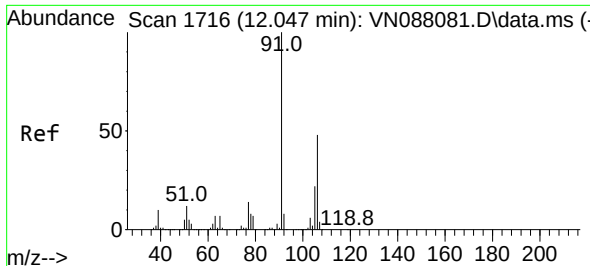
Tgt Ion: 95 Resp: 269183
Ion Ratio Lower Upper
95 100
174 68.1 0.0 138.4
176 65.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion: 117 Resp: 556110
Ion Ratio Lower Upper
117 100
82 59.7 47.4 71.2
119 32.8 24.3 36.5

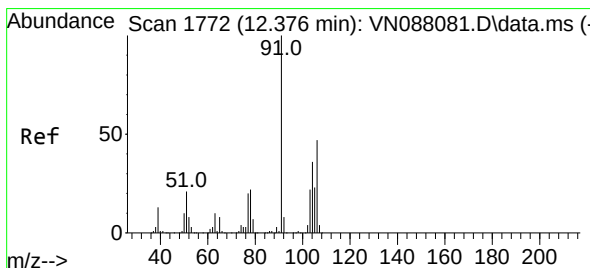
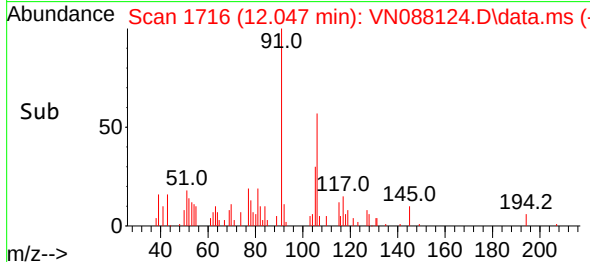
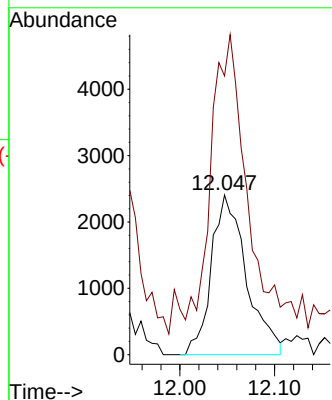
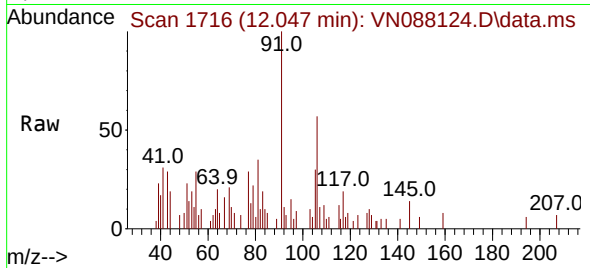




#68
m/p-Xylenes
Concen: 0.746 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

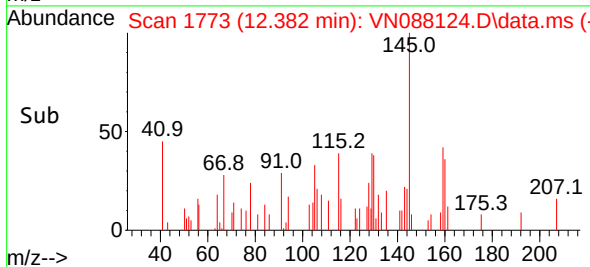
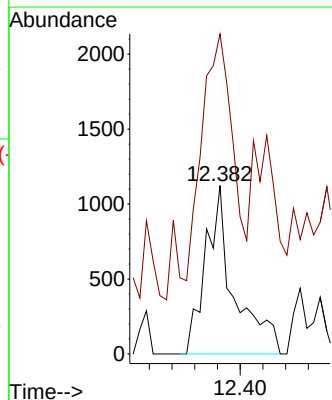
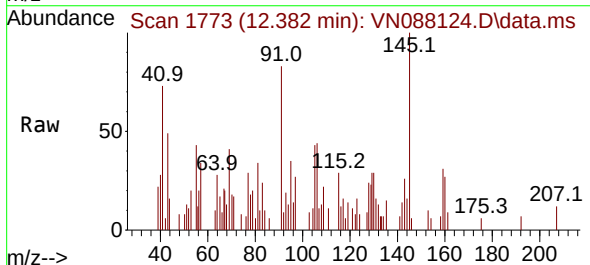
Instrument :
MSVOA_N
ClientSampleId :
MW-11

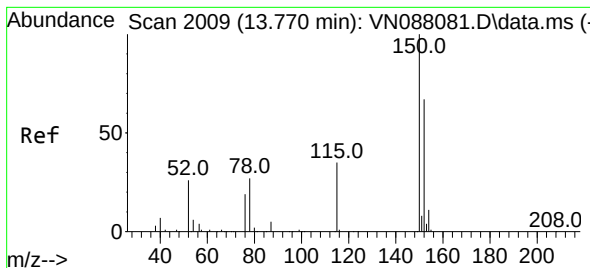
Tgt Ion:106 Resp: 6195
Ion Ratio Lower Upper
106 100
91 173.9 169.3 253.9



#69
o-Xylene
Concen: 0.247 ug/l
RT: 12.382 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion:106 Resp: 1946
Ion Ratio Lower Upper
106 100
91 157.2 111.4 334.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088124.D

Acq: 27 Oct 2025 18:41

Instrument :

MSVOA_N

ClientSampleId :

MW-11

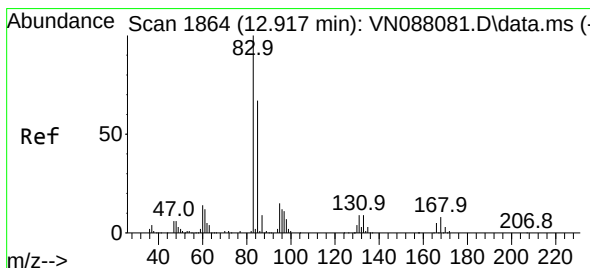
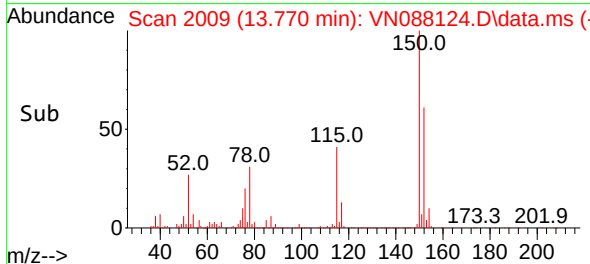
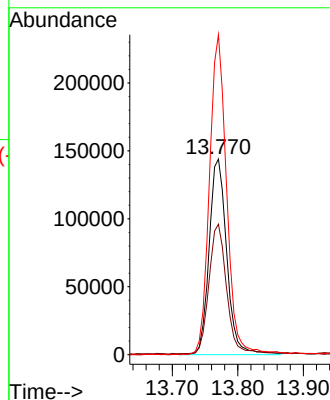
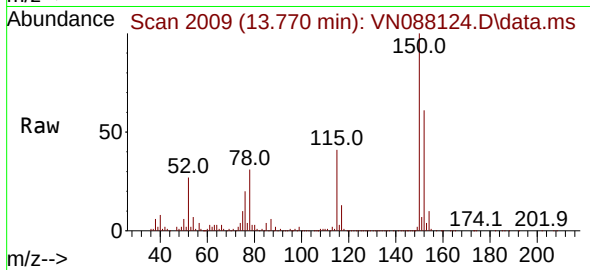
Tgt Ion:152 Resp: 269618

Ion Ratio Lower Upper

152 100

115 65.2 32.3 96.8

150 159.2 0.0 351.0



#75

1,1,2,2-Tetrachloroethane

Concen: 0.413 ug/l

RT: 12.994 min Scan# 1877

Delta R.T. 0.076 min

Lab File: VN088124.D

Acq: 27 Oct 2025 18:41

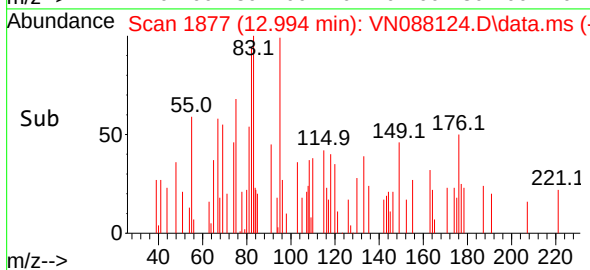
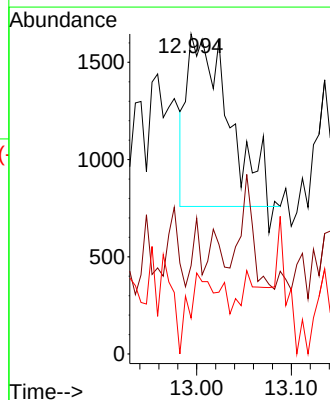
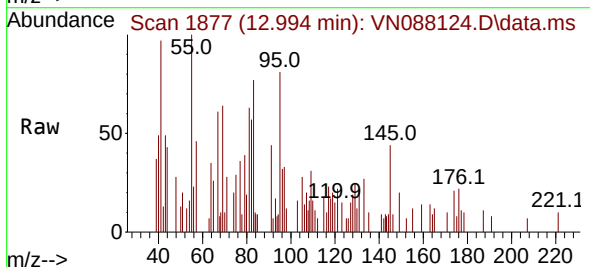
Tgt Ion: 83 Resp: 2676

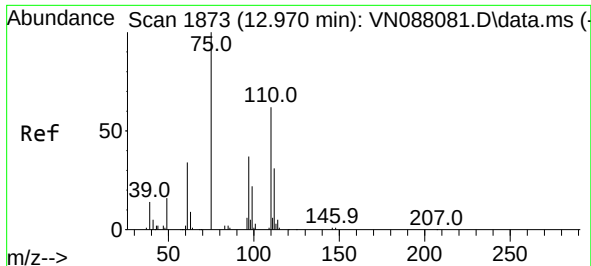
Ion Ratio Lower Upper

83 100

131 6.9 4.8 14.4

85 37.6 32.1 96.3

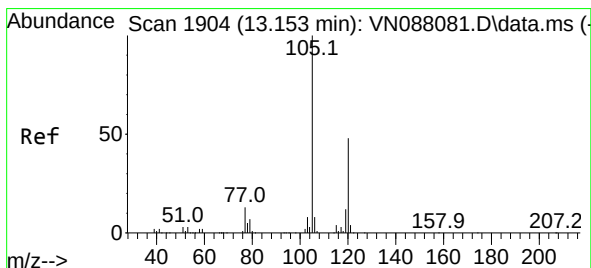
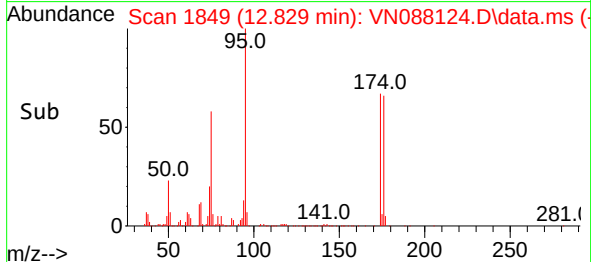
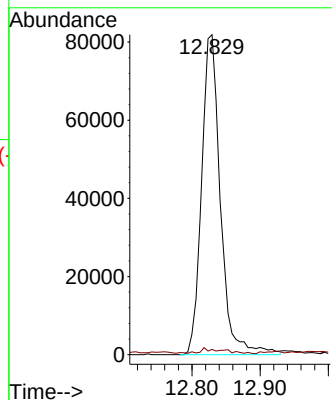
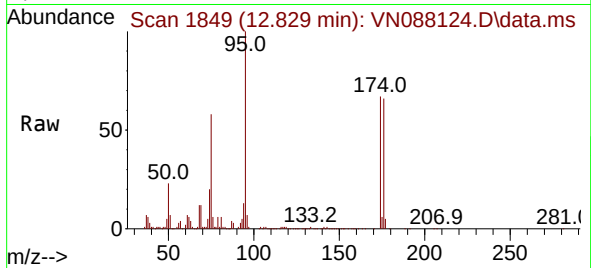




#76
1,2,3-Trichloropropane
Concen: 25.554 ug/l
RT: 12.829 min Scan# 1873
Delta R.T. -0.141 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

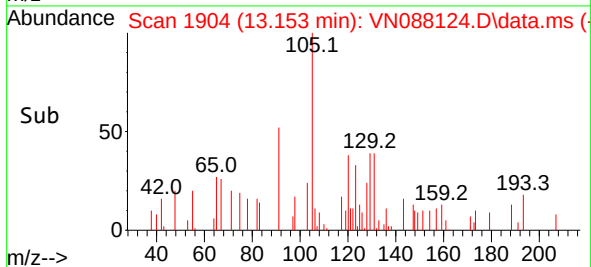
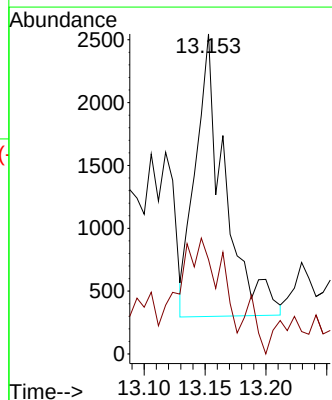
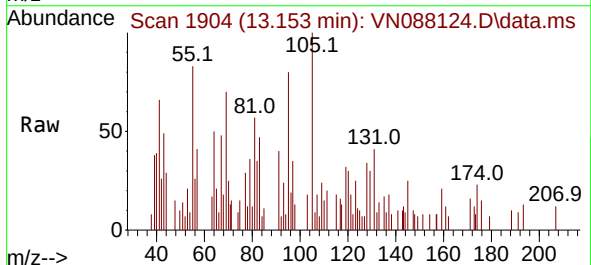
Instrument :
MSVOA_N
ClientSampleId :
MW-11

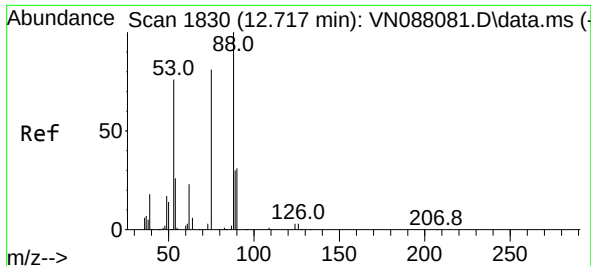
Tgt Ion: 75 Resp: 157521
Ion Ratio Lower Upper
75 100
77 1.0 89.1 267.4#



#80
1,3,5-Trimethylbenzene
Concen: 0.216 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion:105 Resp: 3734
Ion Ratio Lower Upper
105 100
120 44.1 23.2 69.6

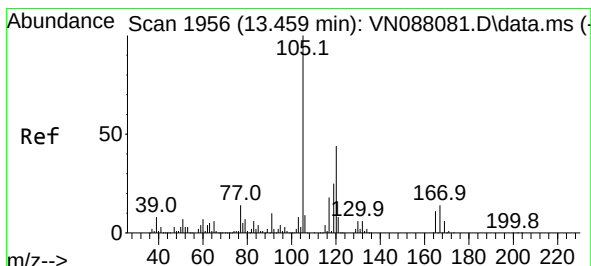
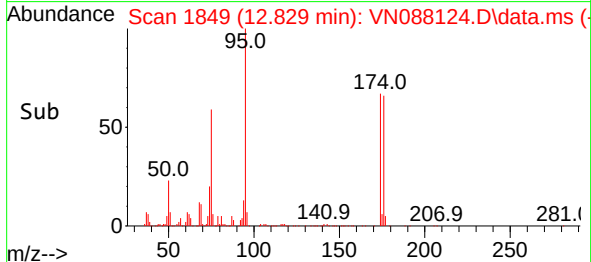
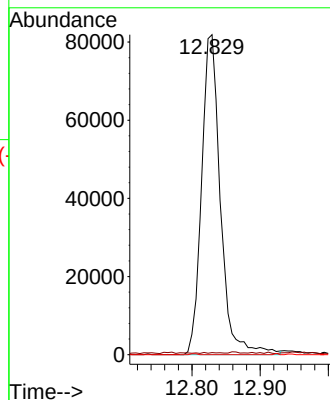
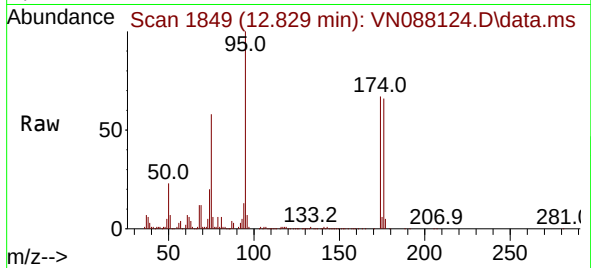




#81
trans-1,4-Dichloro-2-butene
Concen: 71.283 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

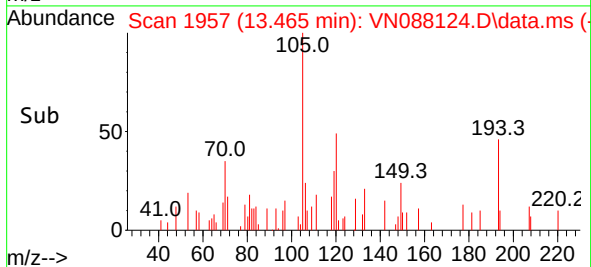
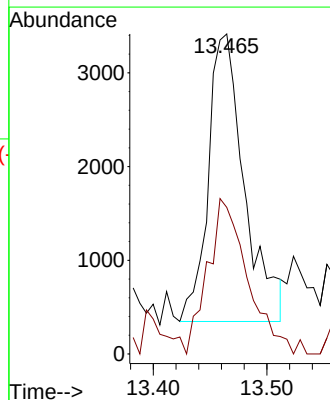
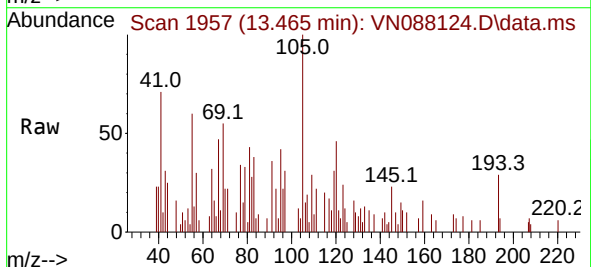
Instrument :
MSVOA_N
ClientSampleId :
MW-11

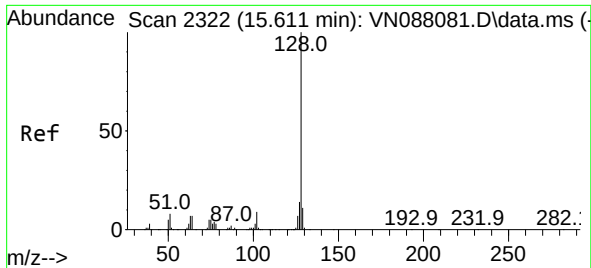
Tgt Ion: 75 Resp: 157521
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.0 35.6 53.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.393 ug/l
RT: 13.465 min Scan# 1957
Delta R.T. 0.006 min
Lab File: VN088124.D
Acq: 27 Oct 2025 18:41

Tgt Ion:105 Resp: 6797
Ion Ratio Lower Upper
105 100
120 59.9 22.0 66.0





#95

Naphthalene

Concen: 0.219 ug/l

RT: 15.611 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN088124.D

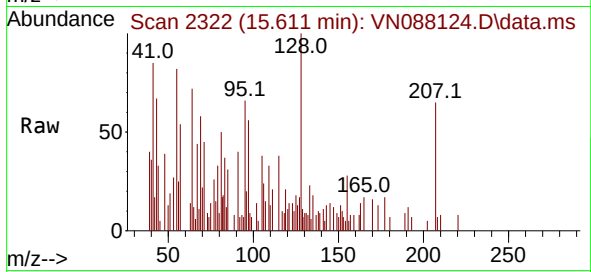
Acq: 27 Oct 2025 18:41

Instrument :

MSVOA_N

ClientSampleId :

MW-11



Tgt Ion:	128	Resp:	3912
Ion Ratio	Lower	Upper	
128	100		
127	33.2	10.6	15.8#
129	8.6	8.6	12.8

