

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088179.D
 Acq On : 31 Oct 2025 11:55
 Operator : JC\MD
 Sample : Q3447-03 20X
 Misc : 3.12g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW2-251023-01

Quant Time: Nov 01 00:30:26 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)

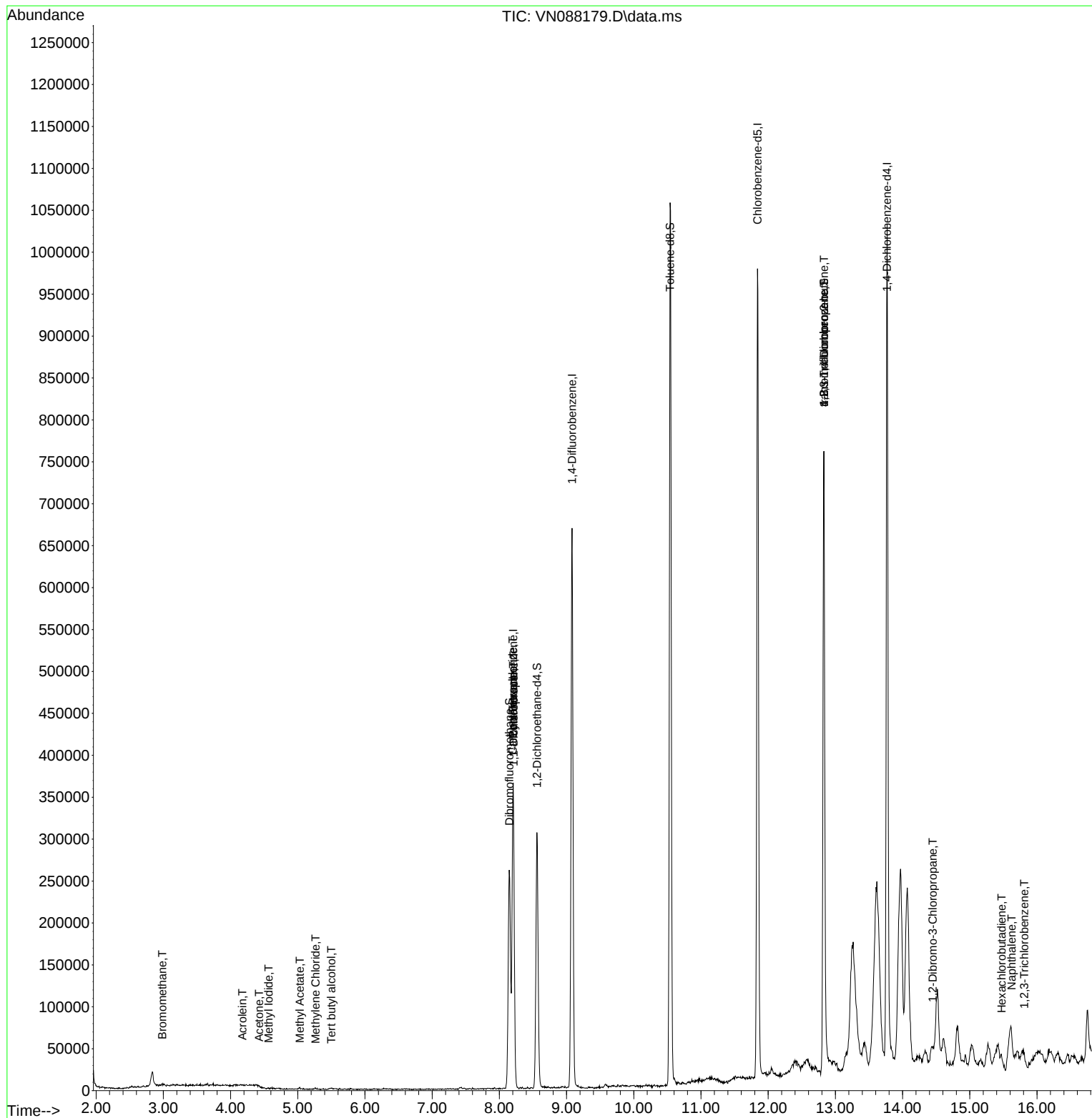
Internal Standards						
1) Pentafluorobenzene	8.206	168	241536	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	547449	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	534253	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	265781	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	253555	60.708	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.420%			
35) Dibromofluoromethane	8.147	113	187546	50.994	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.980%			
50) Toluene-d8	10.541	98	711914	50.237	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.480%			
62) 4-Bromofluorobenzene	12.829	95	280048	55.957	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.920%			
Target Compounds						Qvalue
5) Bromomethane	2.983	94	916	0.439	ug/l #	36
10) Methyl Iodide	4.565	142	86	4.239	ug/l #	38
11) Tert butyl alcohol	5.500	59	1077	1.497	ug/l #	71
13) Acrolein	4.177	56	381	0.471	ug/l #	32
16) Acetone	4.424	43	2211	1.054	ug/l #	47
18) Methyl Acetate	5.030	43	2811	0.654	ug/l #	67
20) Methylene Chloride	5.265	84	312	0.867	ug/l #	19
31) Cyclohexane	8.206	56	7388	1.264	ug/l #	32
36) 1,1-Dichloropropene	8.212	75	24612	4.583	ug/l #	50
38) Carbon Tetrachloride	8.200	117	29587	5.335	ug/l #	13
76) 1,2,3-Trichloropropane	12.829	75	160827	26.467	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	160827	73.830	ug/l #	1
92) 1,2-Dibromo-3-Chloropr...	14.447	75	939	0.632	ug/l	64
94) Hexachlorobutadiene	15.476	225	862	0.449	ug/l	74
95) Naphthalene	15.623	128	21098	1.195	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.812	180	1159	0.235	ug/l #	52

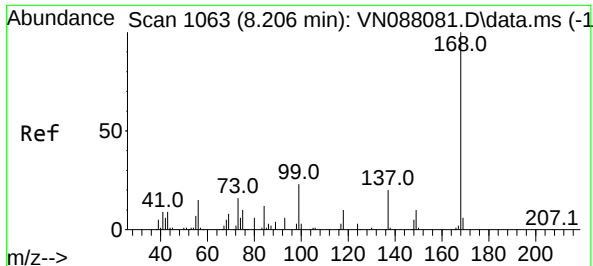
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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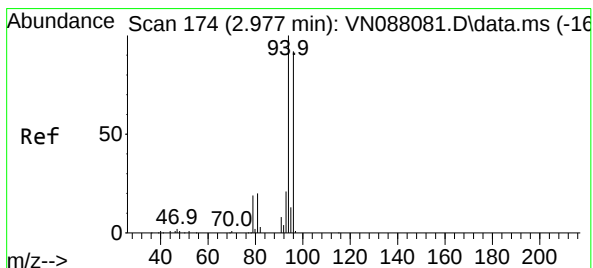
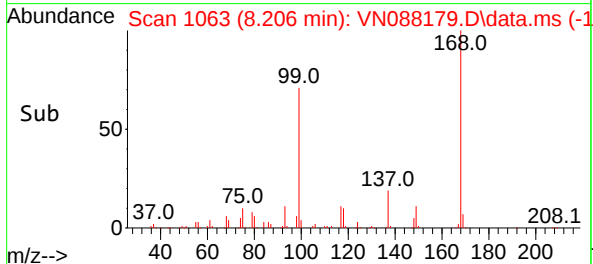
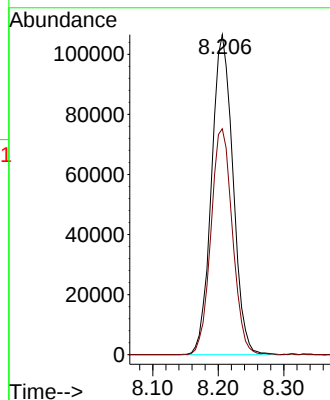
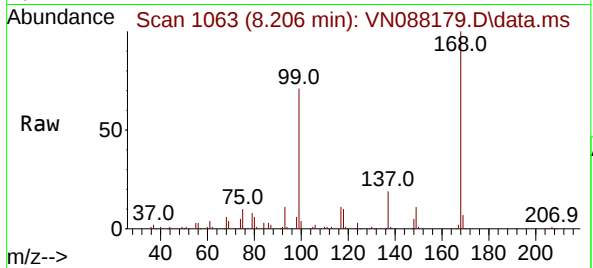




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

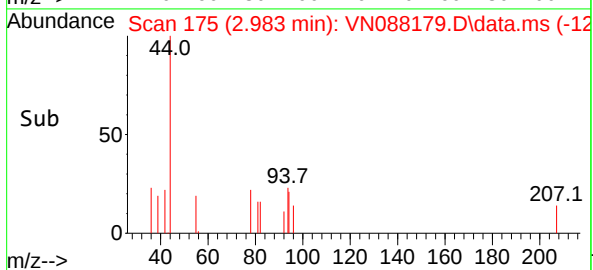
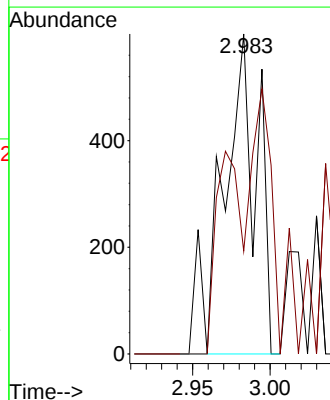
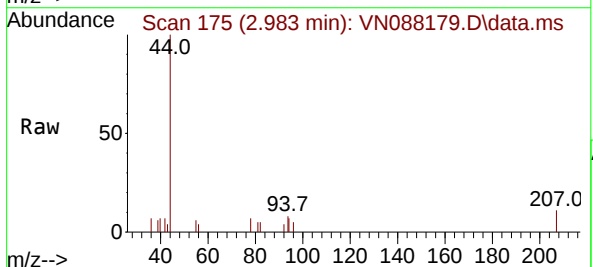
Instrument :
MSVOA_N
ClientSampleId :
P001-TW2-251023-01

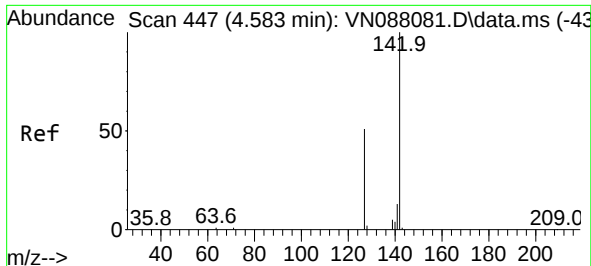
Tgt Ion:168 Resp: 241536
Ion Ratio Lower Upper
168 100
99 70.6 57.2 85.8



#5
Bromomethane
Concen: 0.439 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.012 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

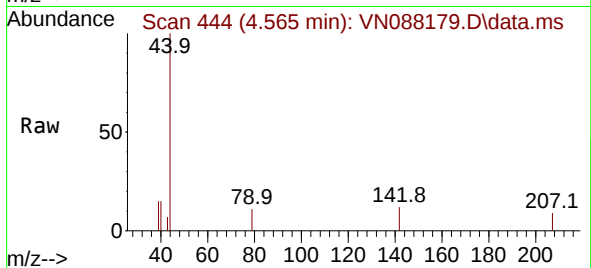
Tgt Ion: 94 Resp: 916
Ion Ratio Lower Upper
94 100
96 32.2 75.4 113.2#



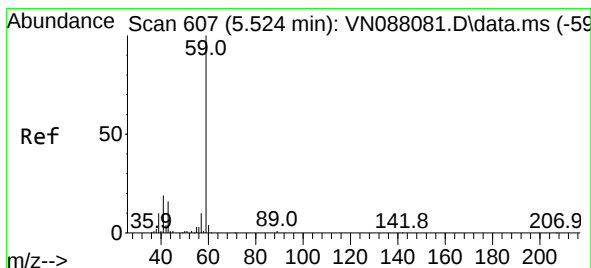
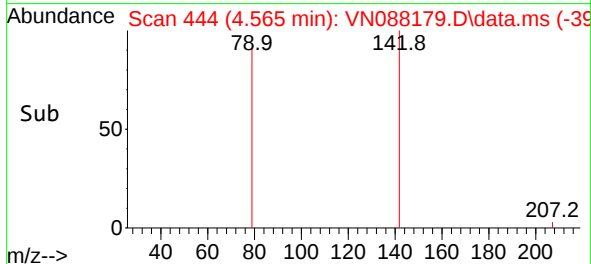
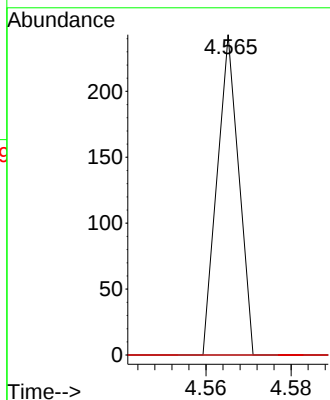


#10
Methyl Iodide
Concen: 4.239 ug/l
RT: 4.565 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN088179.D
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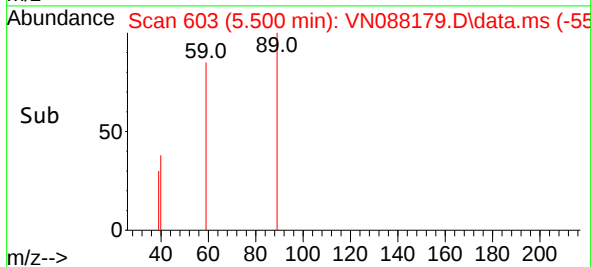
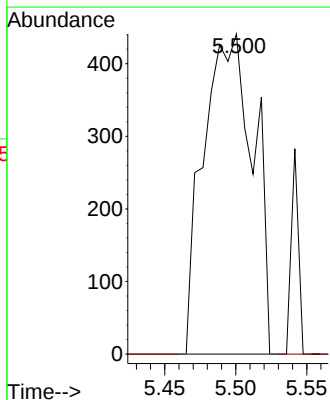
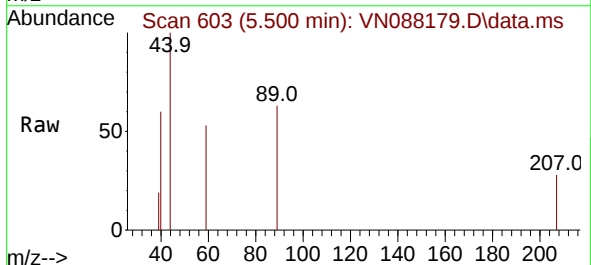


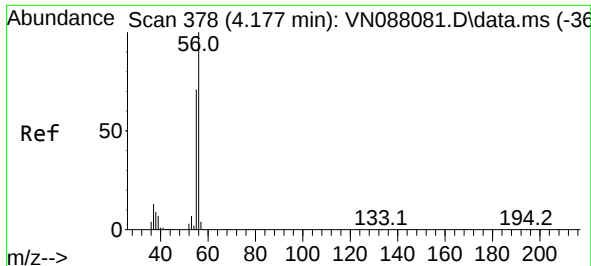
Tgt Ion:142 Resp: 86
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 1.497 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.018 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion: 59 Resp: 1077
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

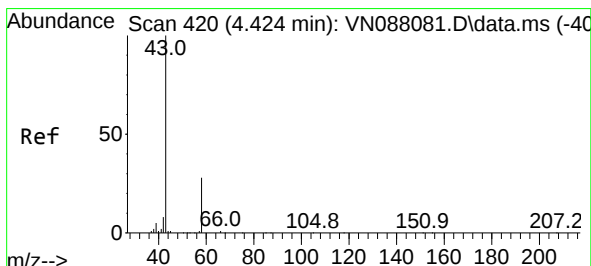
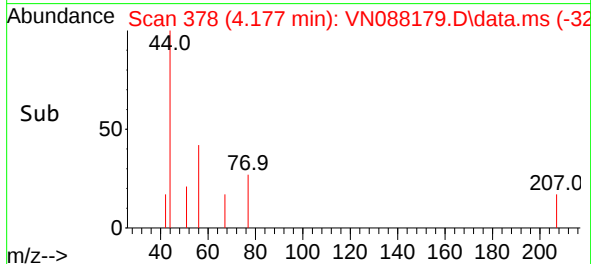
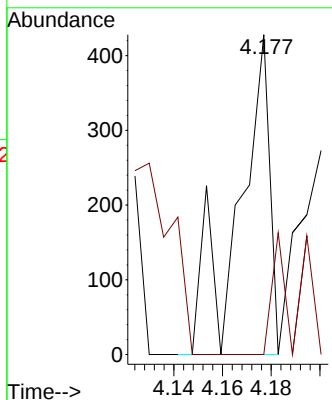
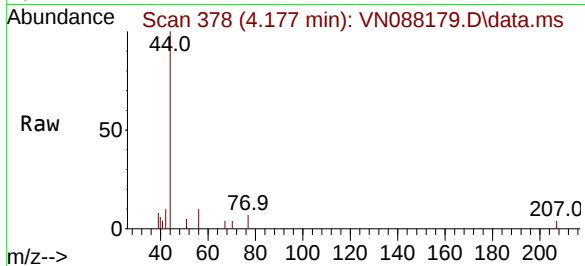




#13
Acrolein
Concen: 0.471 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

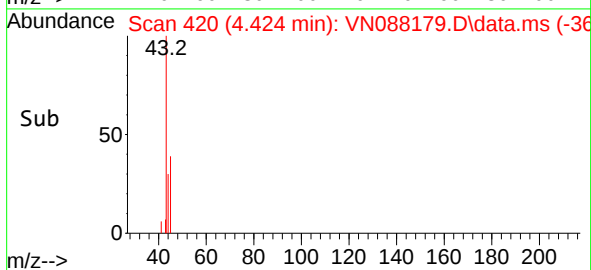
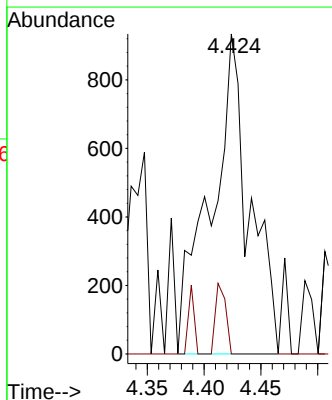
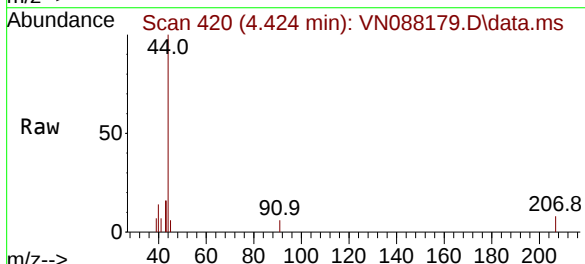
Instrument :
MSVOA_N
ClientSampleId :
P001-TW2-251023-01

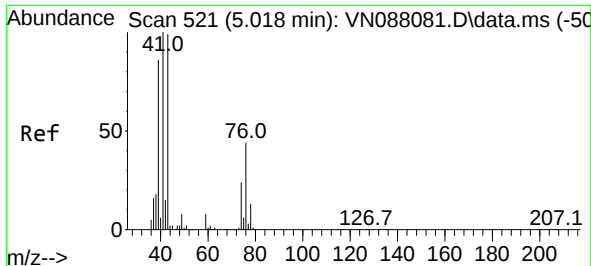
Tgt Ion: 56 Resp: 381
Ion Ratio Lower Upper
56 100
55 15.0 57.3 85.9#



#16
Acetone
Concen: 1.054 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion: 43 Resp: 2211
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#

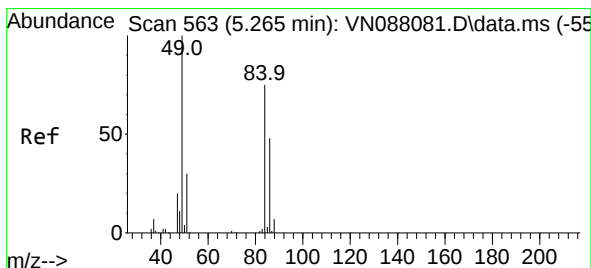
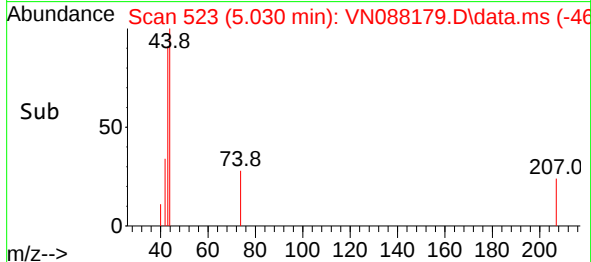
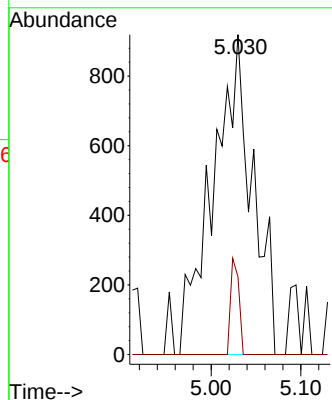
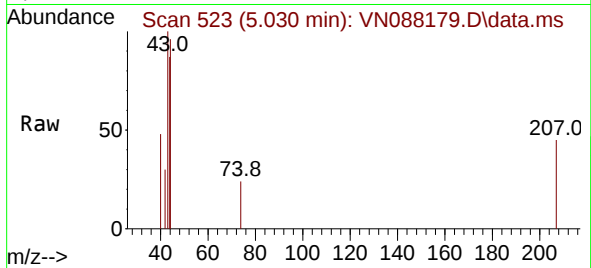




#18
Methyl Acetate
Concen: 0.654 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

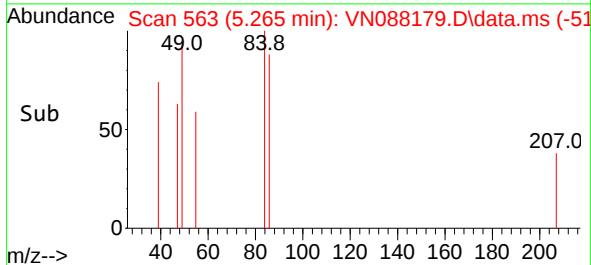
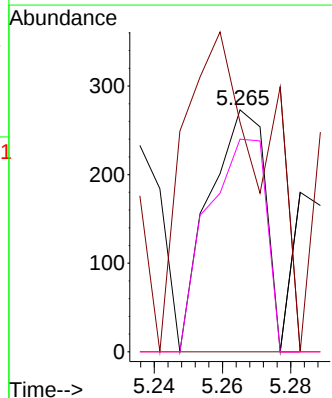
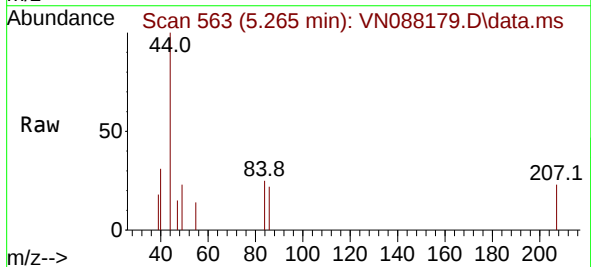
Instrument :
MSVOA_N
ClientSampleId :
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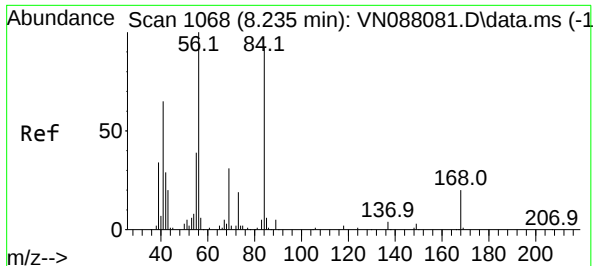
Tgt Ion: 43 Resp: 2811
Ion Ratio Lower Upper
43 100
74 6.3 17.6 26.4#



#20
Methylene Chloride
Concen: 0.867 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion: 84 Resp: 312
Ion Ratio Lower Upper
84 100
49 3.7 103.4 155.2#
51 0.0 33.8 50.8#
86 87.9 49.6 74.4#

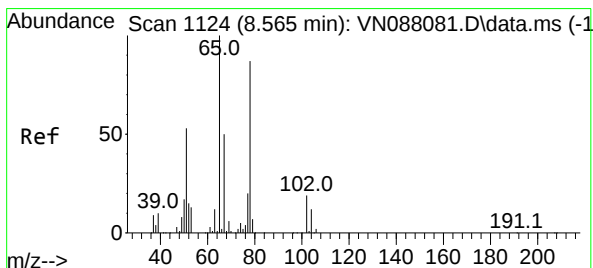
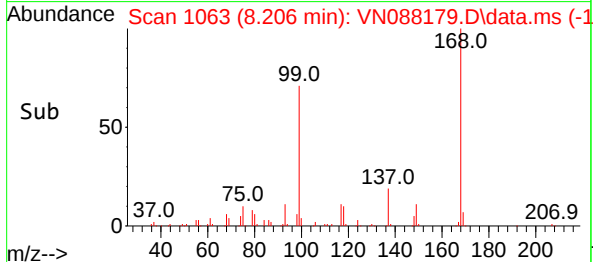
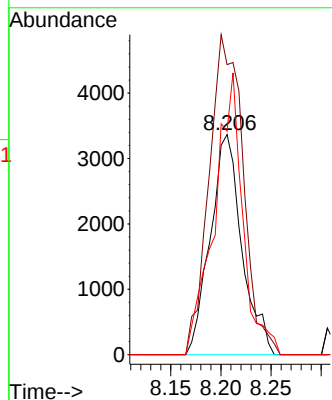
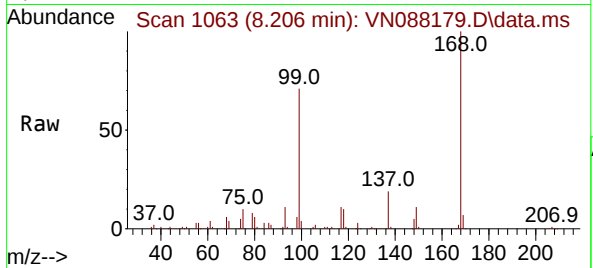




#31
Cyclohexane
Concen: 1.264 ug/l
RT: 8.206 min Scan# 1103
Delta R.T. -0.029 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

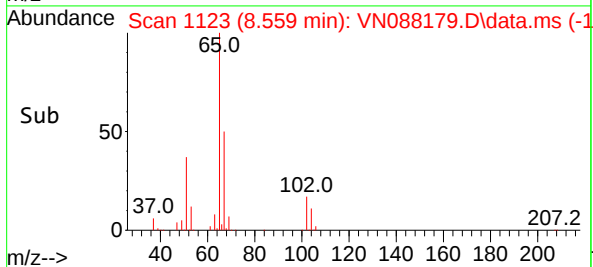
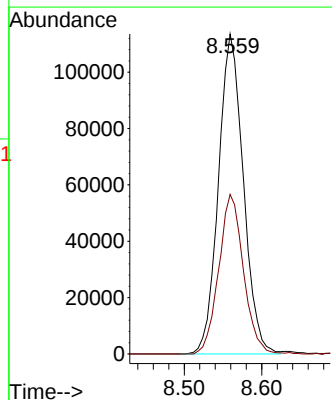
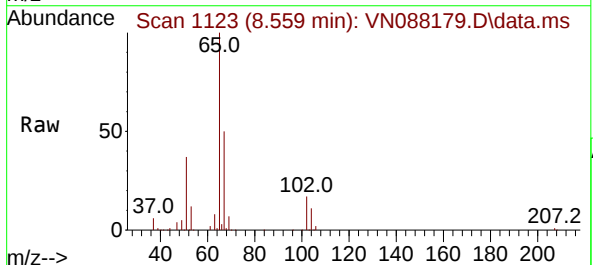
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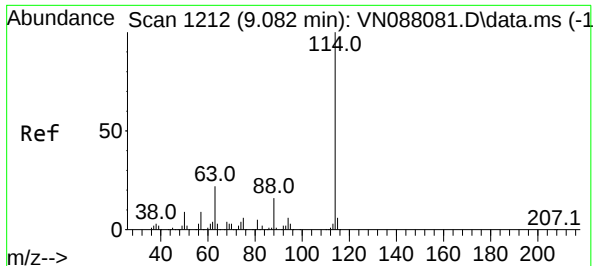
Tgt Ion: 56 Resp: 7388
Ion Ratio Lower Upper
56 100
69 131.8 23.7 35.5#
84 101.5 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 60.708 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion: 65 Resp: 253555
Ion Ratio Lower Upper
65 100
67 49.6 0.0 100.0

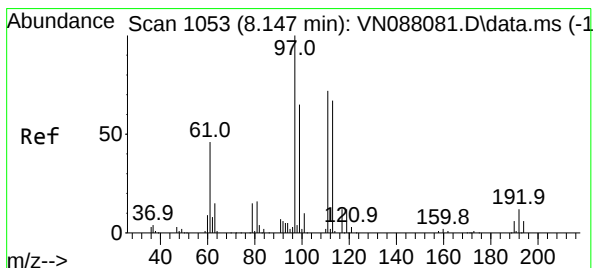
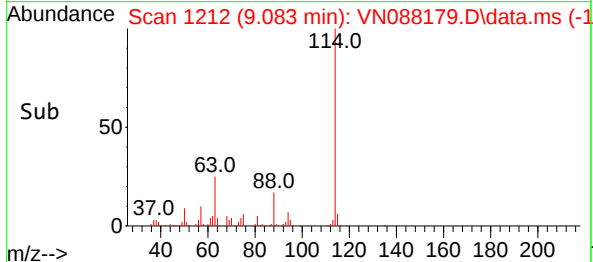
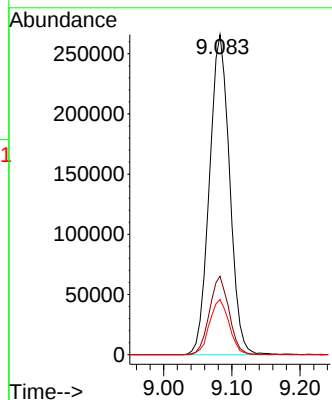
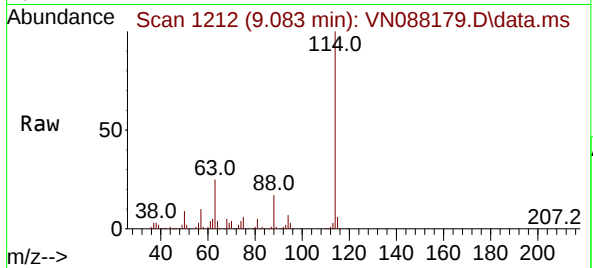




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

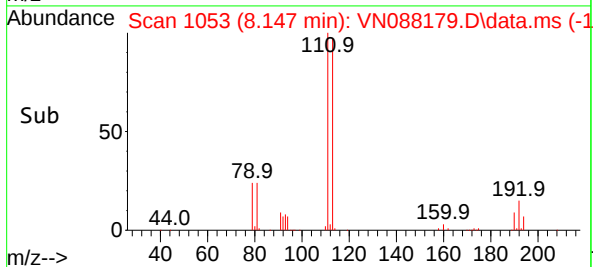
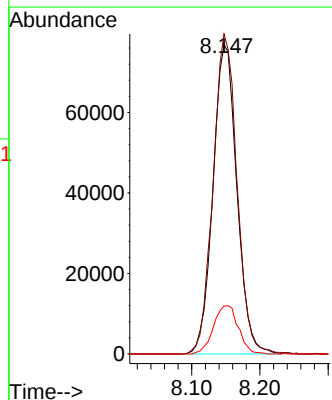
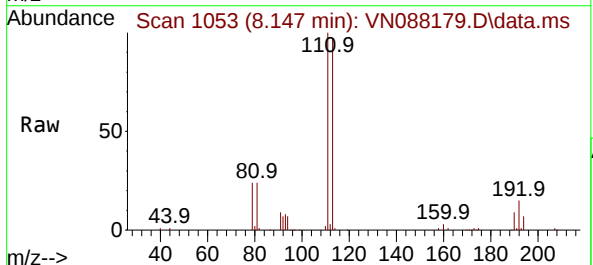
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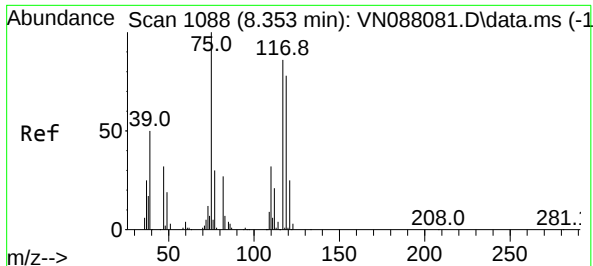
Tgt Ion:114 Resp: 547449
Ion Ratio Lower Upper
114 100
63 24.5 0.0 45.2
88 17.2 0.0 33.4



#35
Dibromofluoromethane
Concen: 50.994 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion:113 Resp: 187546
Ion Ratio Lower Upper
113 100
111 103.5 82.8 124.2
192 16.2 12.8 19.2

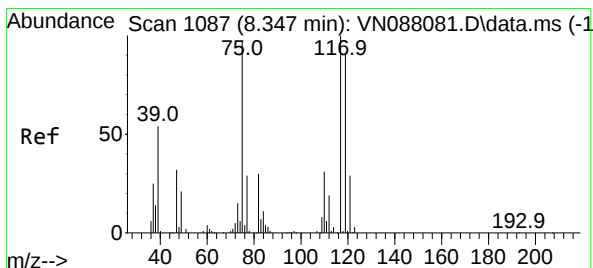
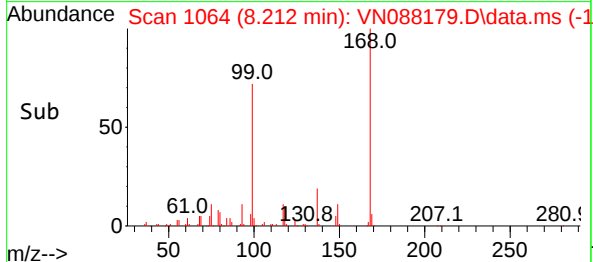
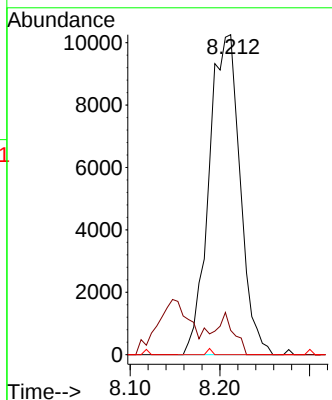
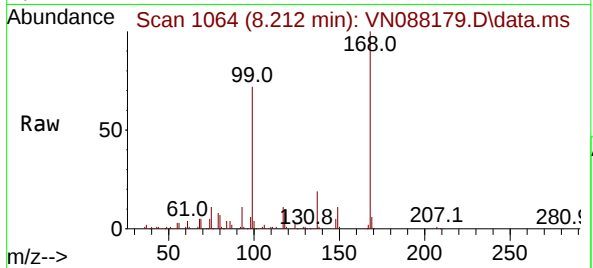




#36
1,1-Dichloropropene
Concen: 4.583 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.141 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

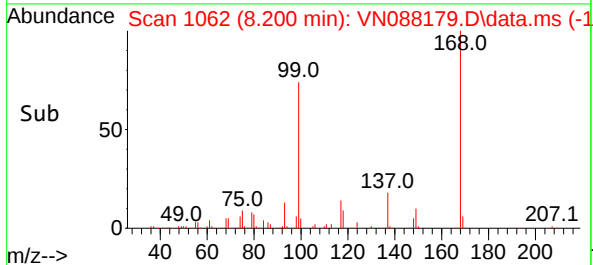
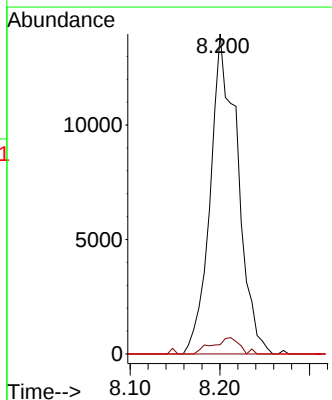
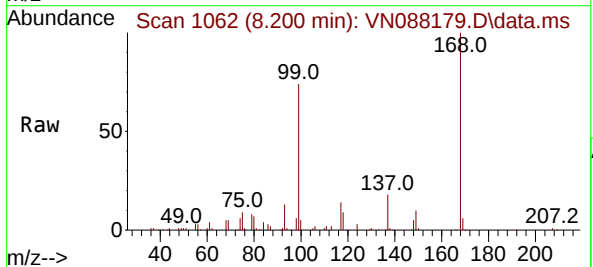
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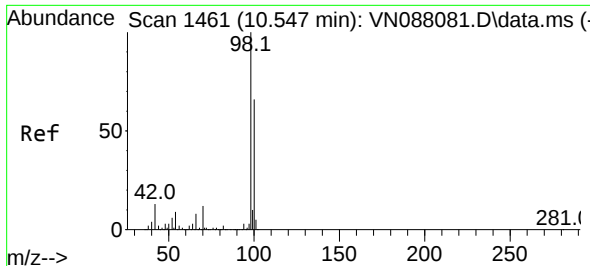
Tgt Ion: 75 Resp: 24612
Ion Ratio Lower Upper
75 100
110 7.1 15.9 47.6#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.335 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.141 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion: 117 Resp: 29587
Ion Ratio Lower Upper
117 100
119 2.9 79.0 118.6#
121 0.0 25.0 37.6#

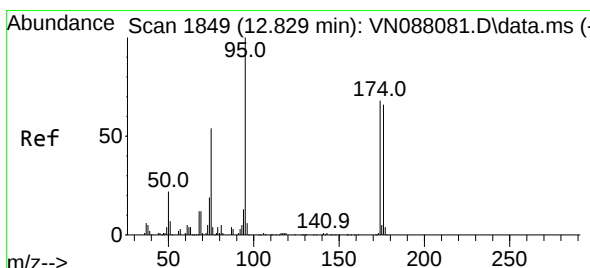
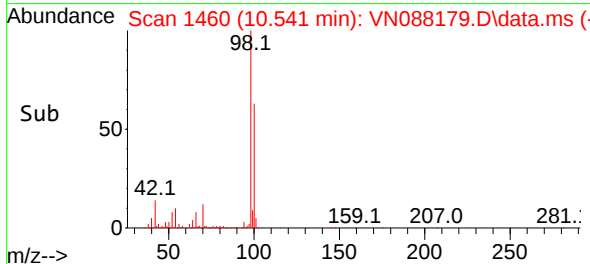
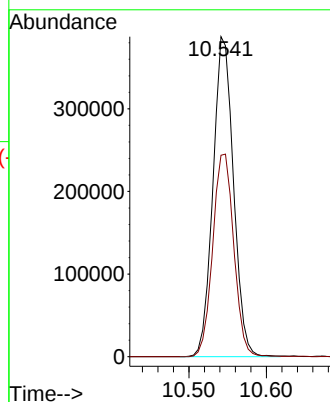
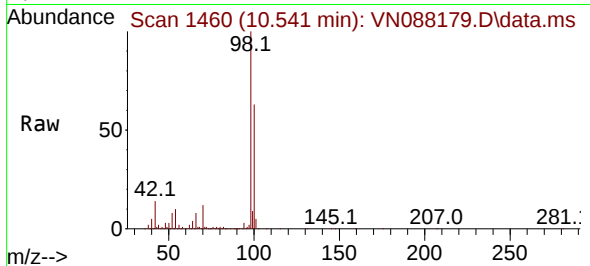




#50
Toluene-d8
Concen: 50.237 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

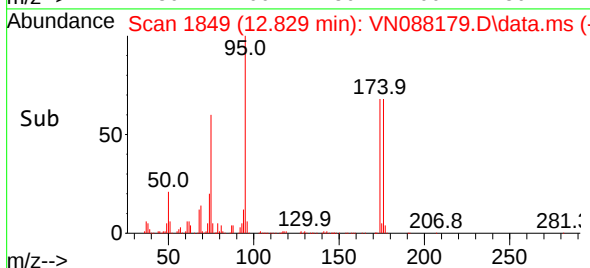
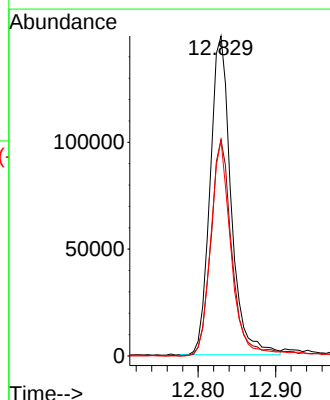
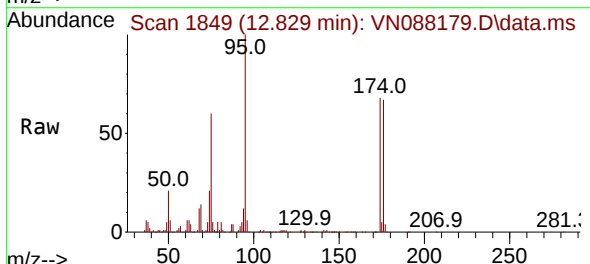
Instrument :
MSVOA_N
ClientSampleId :
P001-TW2-251023-01

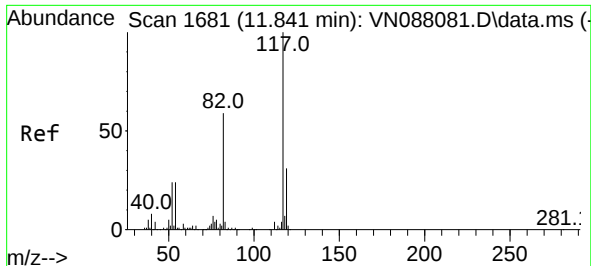
Tgt Ion: 98 Resp: 711914
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 55.957 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion: 95 Resp: 280048
Ion Ratio Lower Upper
95 100
174 70.5 0.0 138.4
176 66.0 0.0 132.6

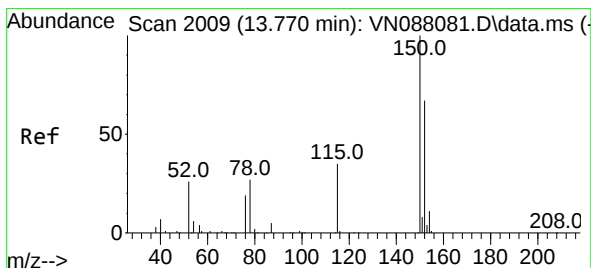
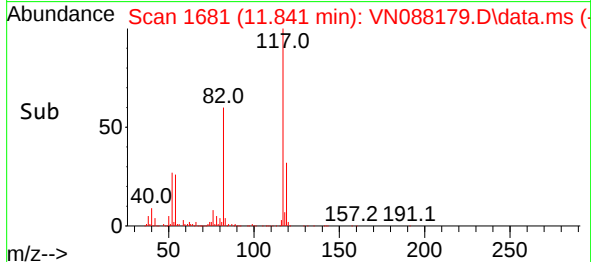
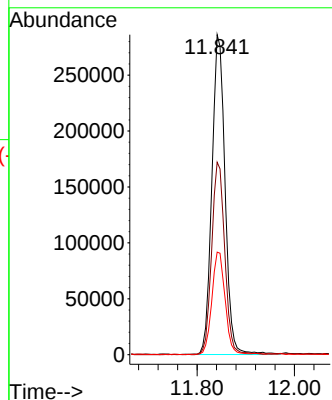
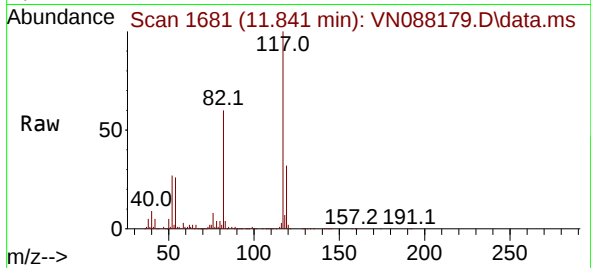




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

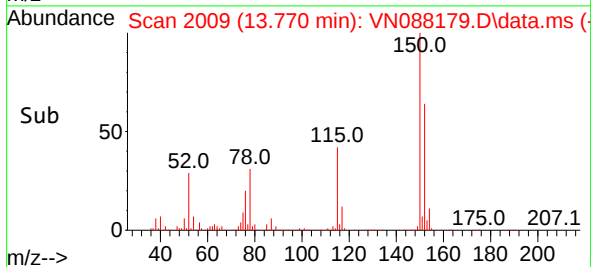
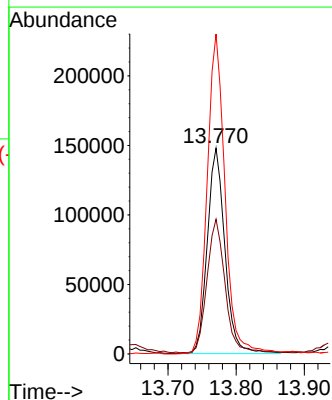
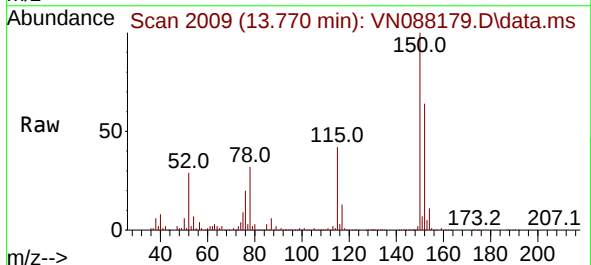
Instrument :
MSVOA_N
ClientSampleId :
P001-TW2-251023-01

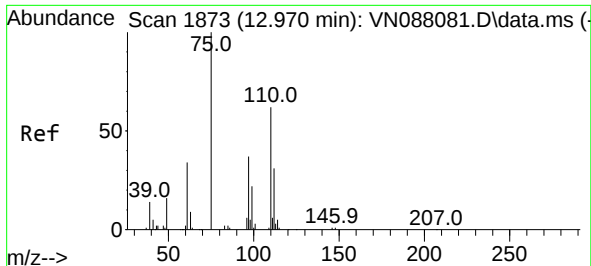
Tgt Ion:117 Resp: 534253
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 32.0 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion:152 Resp: 265781
Ion Ratio Lower Upper
152 100
115 66.2 32.3 96.8
150 158.3 0.0 351.0

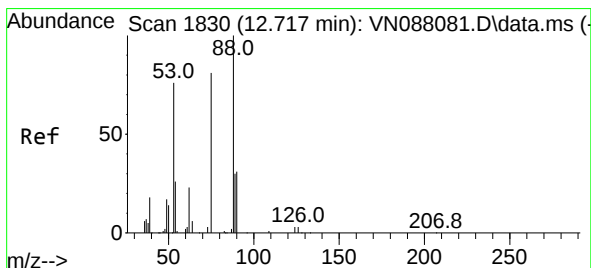
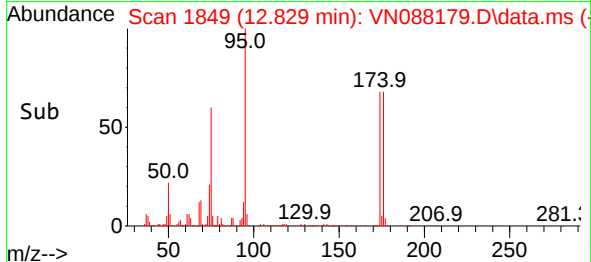
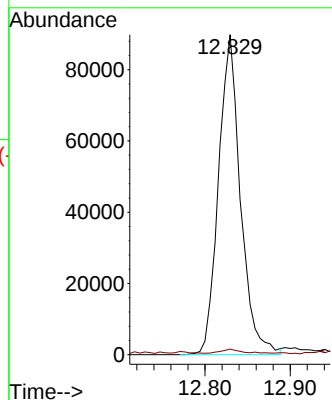
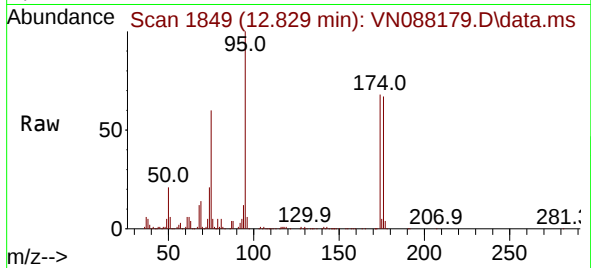




#76
1,2,3-Trichloropropane
Concen: 26.467 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

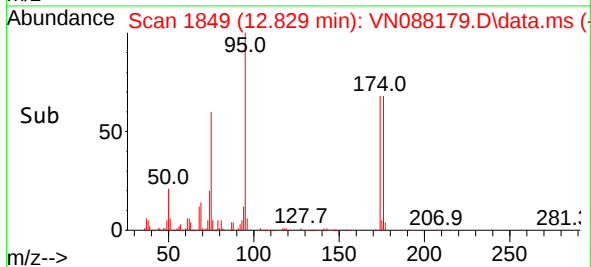
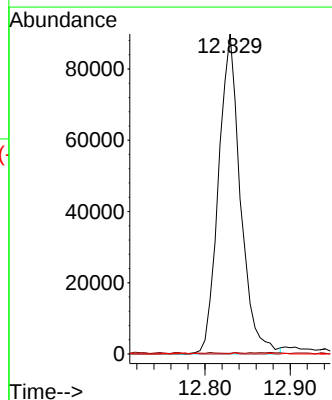
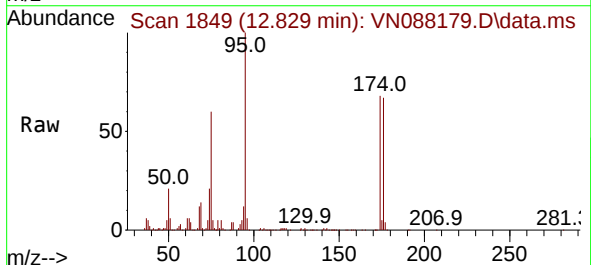
Instrument :
MSVOA_N
ClientSampleId :
P001-TW2-251023-01

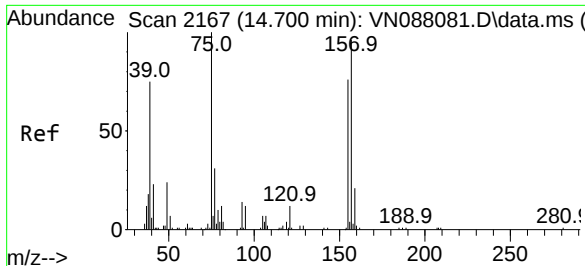
Tgt Ion: 75 Resp: 160827
Ion Ratio Lower Upper
75 100
77 1.0 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.830 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088179.D
Acq: 31 Oct 2025 11:55

Tgt Ion: 75 Resp: 160827
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.1 35.6 53.4#



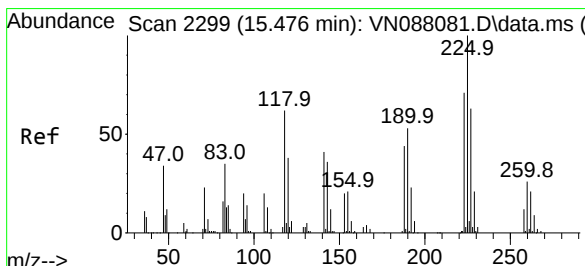
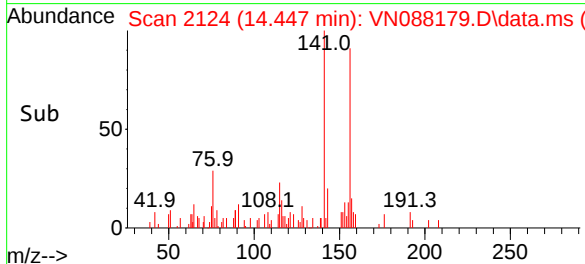
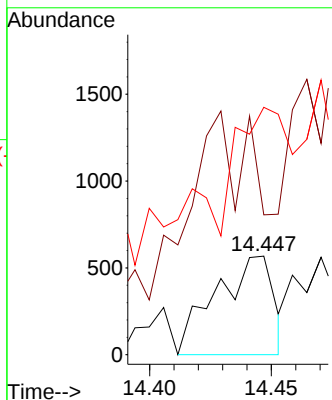
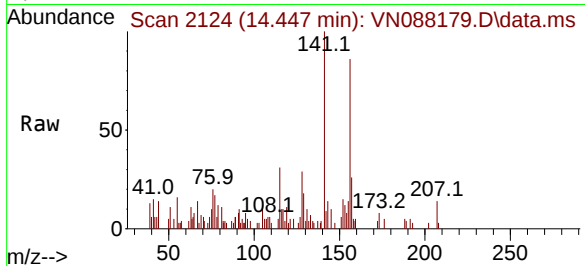


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.632 ug/l
 RT: 14.447 min Scan# 2167
 Delta R.T. -0.253 min
 Lab File: VN088179.D
 Acq: 31 Oct 2025 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW2-251023-01

Tgt Ion: 75 Resp: 939

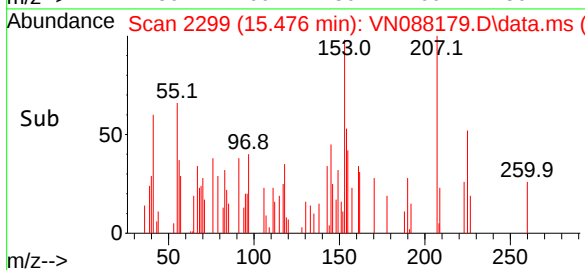
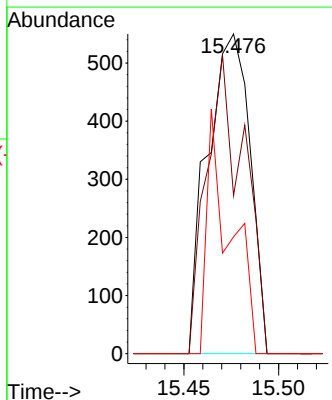
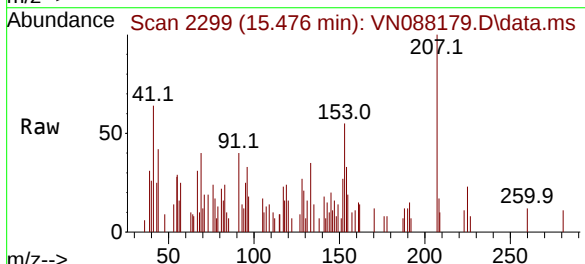
Ion	Ratio	Lower	Upper
75	100		
155	107.7	36.6	109.9
157	121.8	45.6	136.9

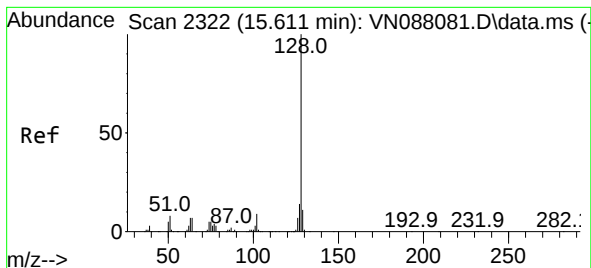


#94
 Hexachlorobutadiene
 Concen: 0.449 ug/l
 RT: 15.476 min Scan# 2299
 Delta R.T. -0.000 min
 Lab File: VN088179.D
 Acq: 31 Oct 2025 11:55

Tgt Ion: 225 Resp: 862

Ion	Ratio	Lower	Upper
225	100		
223	82.5	32.0	96.2
227	41.8	32.1	96.5





#95

Naphthalene

Concen: 1.195 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN088179.D

Acq: 31 Oct 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :

P001-TW2-251023-01

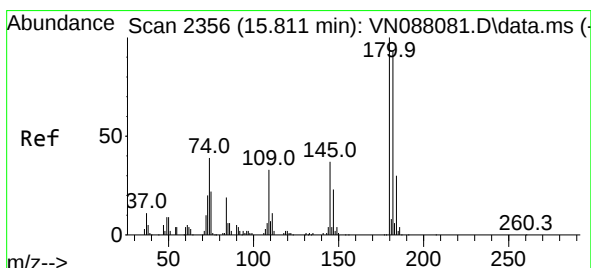
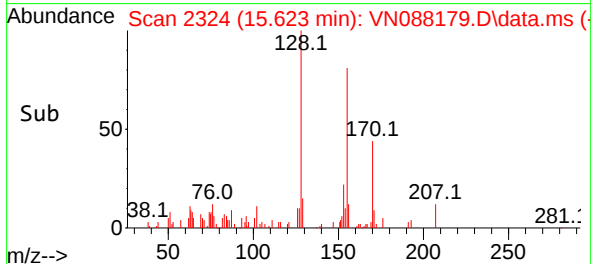
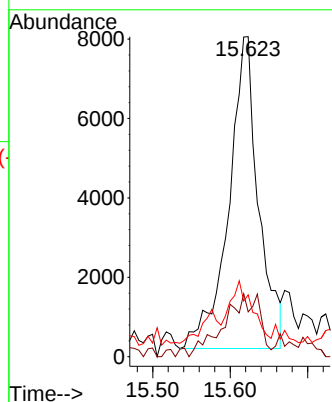
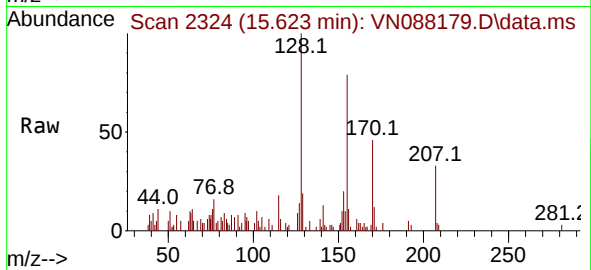
Tgt Ion:128 Resp: 21098

Ion Ratio Lower Upper

128 100

127 24.1 10.6 15.8#

129 16.9 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 0.235 ug/l

RT: 15.812 min Scan# 2356

Delta R.T. -0.000 min

Lab File: VN088179.D

Acq: 31 Oct 2025 11:55

Tgt Ion:180 Resp: 1159

Ion Ratio Lower Upper

180 100

182 59.8 46.8 140.3

145 83.5 17.3 52.0#

