

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087828.D
 Acq On : 15 Sep 2025 11:53
 Operator : JC\MD
 Sample : Q3082-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-29

Quant Time: Sep 16 01:33:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

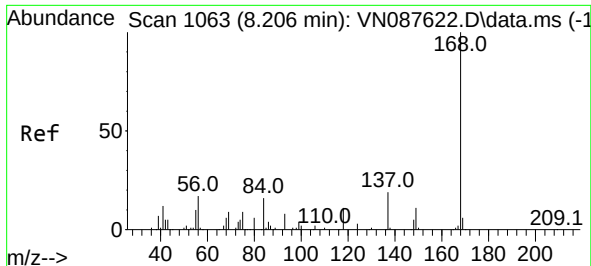
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	185568	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.082	114	413079	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	431474	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	188553	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	203203	53.445	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.900%			
35) Dibromofluoromethane	8.147	113	159119	53.352	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.700%			
50) Toluene-d8	10.547	98	561137	50.269	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.540%			
62) 4-Bromofluorobenzene	12.829	95	194254	48.933	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.860%			
Target Compounds						
						Qvalue
5) Bromomethane	2.977	94	413	0.255	ug/l	# 10
8) Diethyl Ether	3.953	74	493	0.246	ug/l	# 45
10) Methyl Iodide	4.594	142	334	6.959	ug/l	# 38
11) Tert butyl alcohol	5.524	59	734	1.112	ug/l	# 53
13) Acrolein	4.177	56	237	0.292	ug/l	# 22
16) Acetone	4.424	43	124157	59.987	ug/l	98
17) Carbon Disulfide	4.700	76	2511	0.341	ug/l	# 74
18) Methyl Acetate	5.024	43	22025	5.082	ug/l	# 76
20) Methylene Chloride	5.259	84	11823	2.777	ug/l	# 82
25) 2-Butanone	7.477	43	14535	5.338	ug/l	98
29) Tetrahydrofuran	7.841	42	1087	0.620	ug/l	# 77
31) Cyclohexane	8.206	56	5864	1.226	ug/l	# 26
36) 1,1-Dichloropropene	8.206	75	17566	3.839	ug/l	# 50
37) Ethyl Acetate	7.547	43	12908	2.065	ug/l	# 82
38) Carbon Tetrachloride	8.206	117	21098	4.670	ug/l	# 16
43) Isopropyl Acetate	8.671	43	22616	2.317	ug/l	97
45) 1,2-Dichloropropane	9.729	63	2024	0.547	ug/l	# 43
48) Methyl methacrylate	9.724	41	141338	30.611	ug/l	# 45
51) 4-Methyl-2-Pentanone	10.435	43	19767	3.356	ug/l	# 69
54) cis-1,3-Dichloropropene	10.341	75	62495	10.778	ug/l	# 58
57) 1,3-Dichloropropane	11.182	76	4162	0.699	ug/l	# 42
59) 2-Hexanone	11.188	43	56448	15.166	ug/l	# 56
71) Bromoform	12.829	173	2203	0.806	ug/l	# 1
76) 1,2,3-Trichloropropane	12.823	75	111984	25.326	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.823	75	111984	67.048	ug/l	# 1

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

Quant Time: Sep 16 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

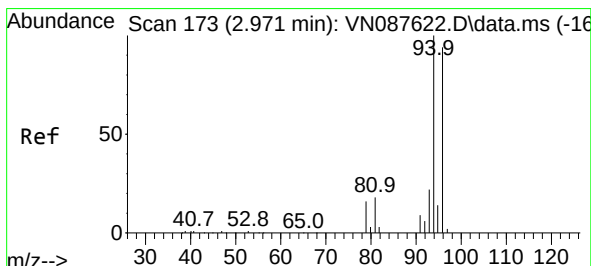
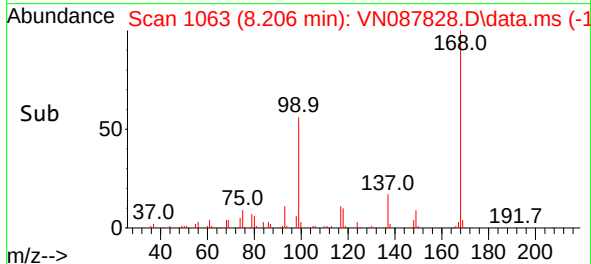
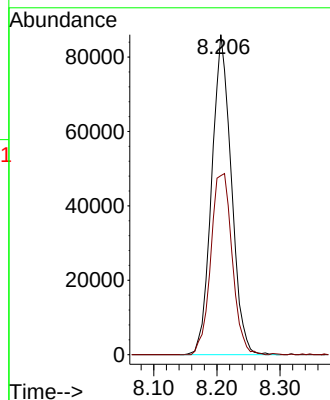
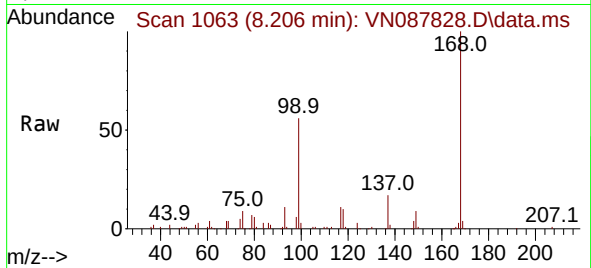




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

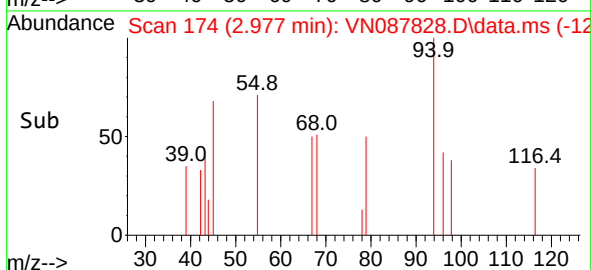
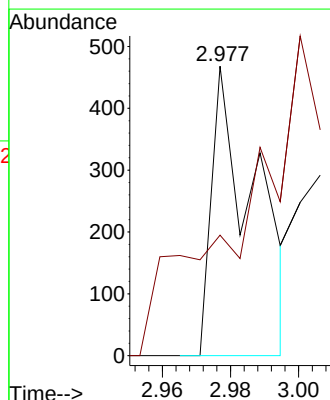
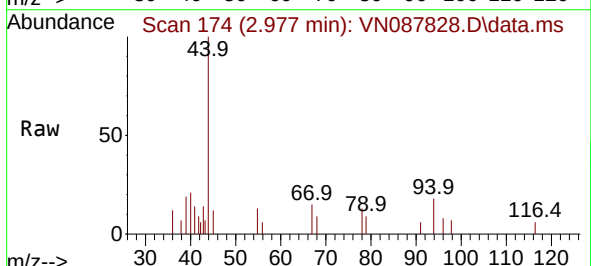
Instrument :
MSVOA_N
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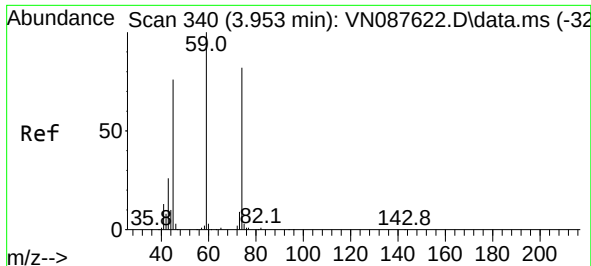
Tgt Ion:168 Resp: 185568
Ion Ratio Lower Upper
168 100
99 56.0 57.2 85.8#



#5
Bromomethane
Concen: 0.255 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 94 Resp: 413
Ion Ratio Lower Upper
94 100
96 7.1 75.4 113.2#

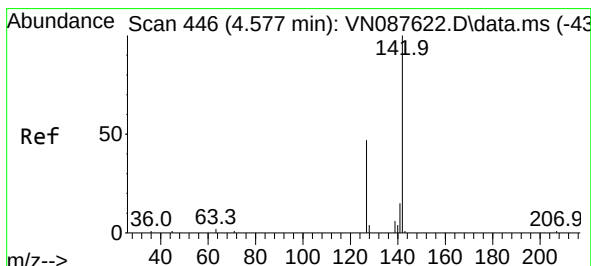
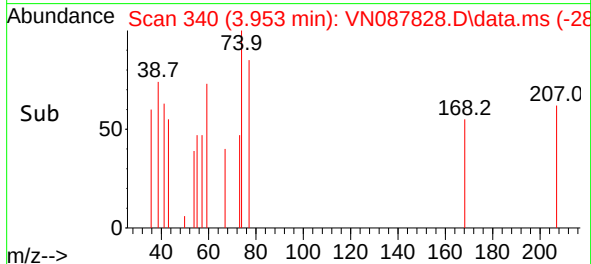
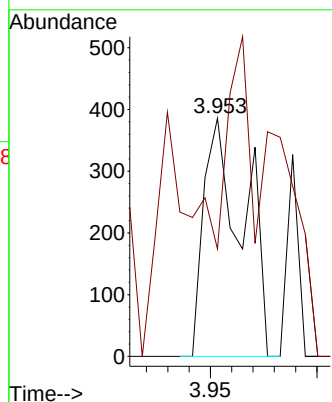
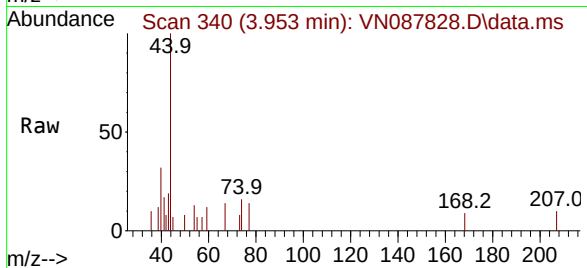




#8
Diethyl Ether
Concen: 0.246 ug/l
RT: 3.953 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

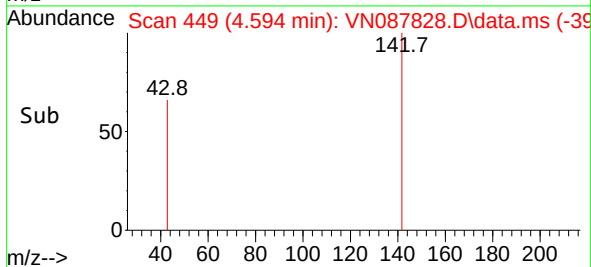
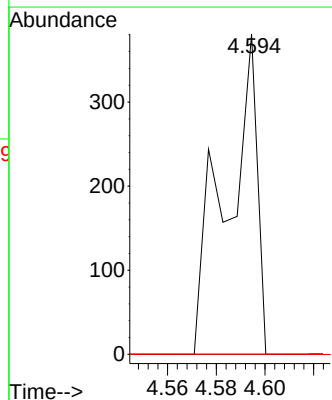
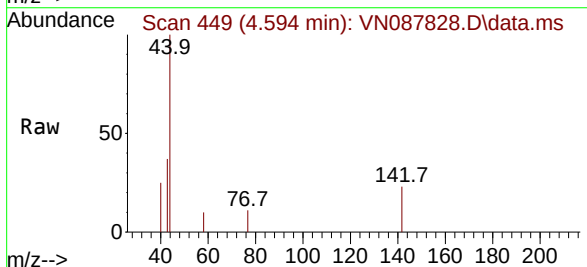
Instrument :
MSVOA_N
ClientSampleId :
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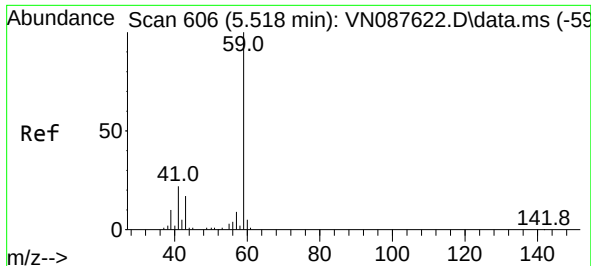
Tgt Ion: 74 Resp: 493
Ion Ratio Lower Upper
74 100
45 45.6 50.6 151.9#



#10
Methyl Iodide
Concen: 6.959 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.017 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 142 Resp: 334
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

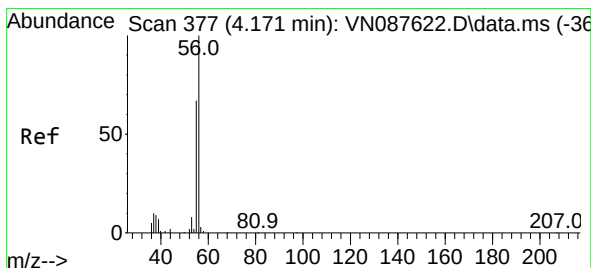
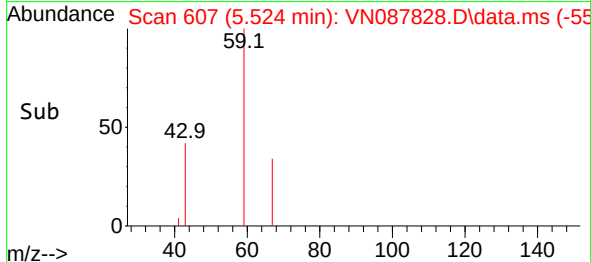
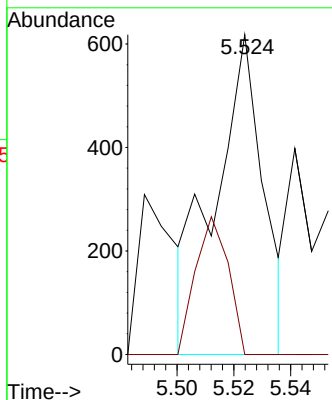
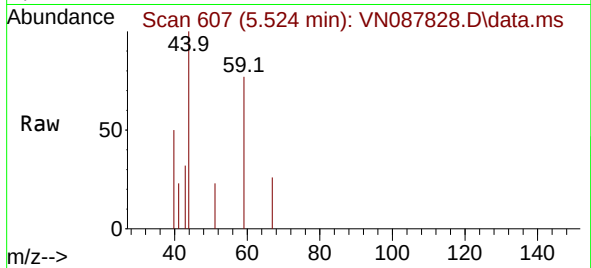




#11
Tert butyl alcohol
Concen: 1.112 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

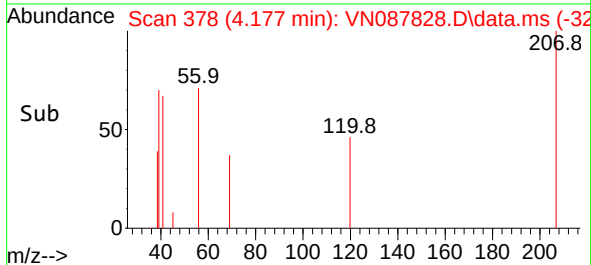
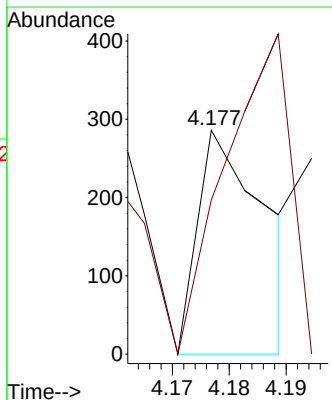
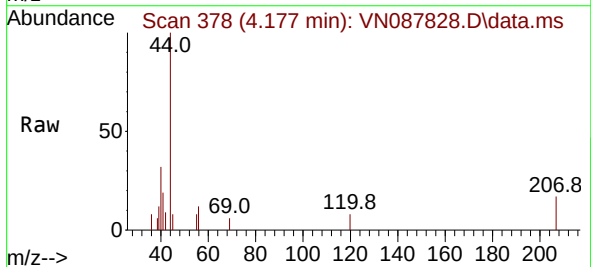
Instrument :
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ClientSampleId :
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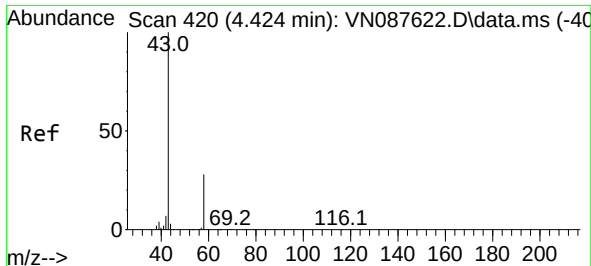
Tgt Ion: 59 Resp: 734
Ion Ratio Lower Upper
59 100
57 29.0 9.0 13.4#



#13
Acrolein
Concen: 0.292 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 136.3 57.3 85.9#

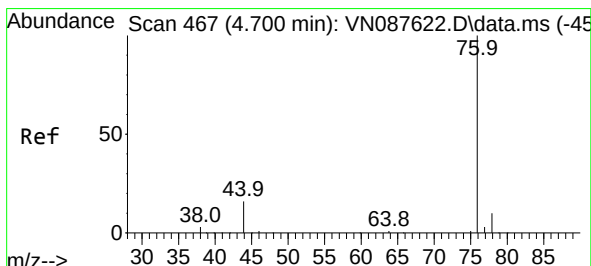
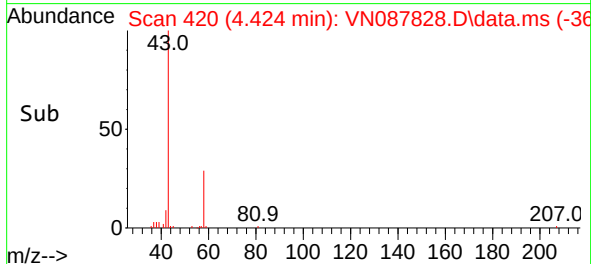
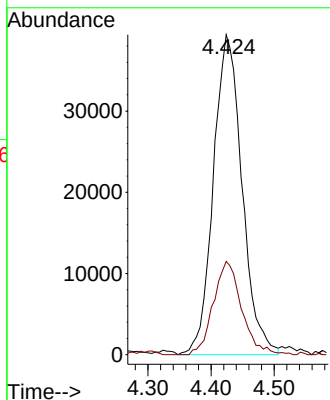
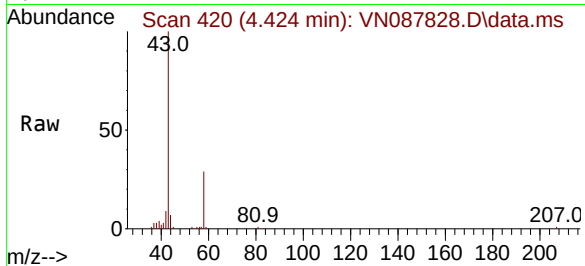




#16
Acetone
Concen: 59.987 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

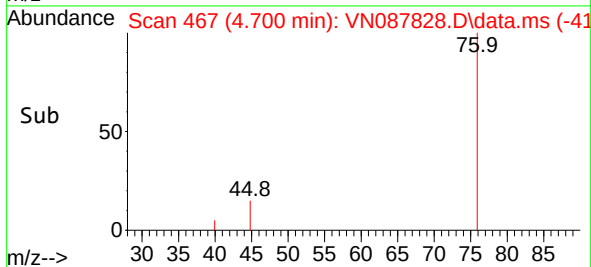
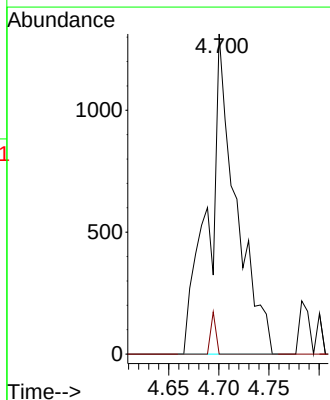
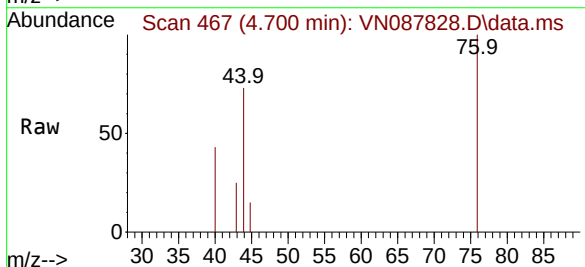
Instrument :
MSVOA_N
ClientSampleId :
WC-29

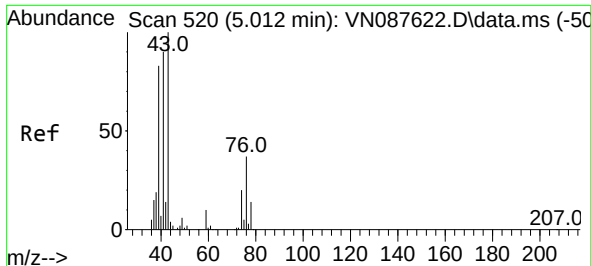
Tgt Ion: 43 Resp: 124157
Ion Ratio Lower Upper
43 100
58 29.1 22.6 33.8



#17
Carbon Disulfide
Concen: 0.341 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 76 Resp: 2511
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

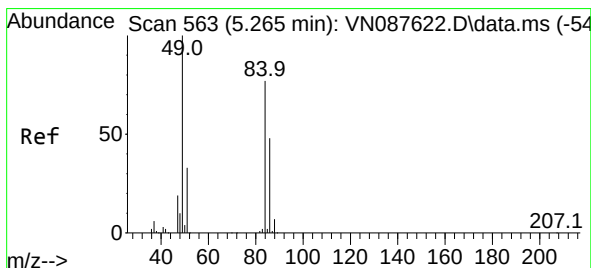
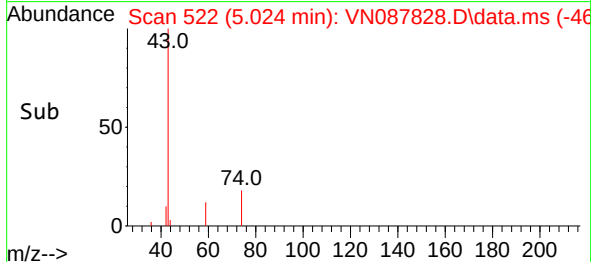
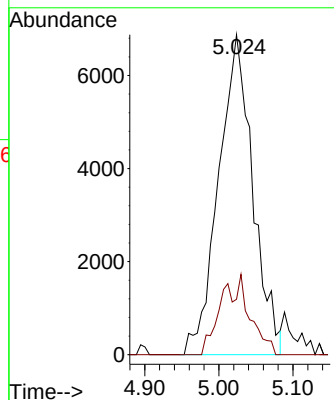
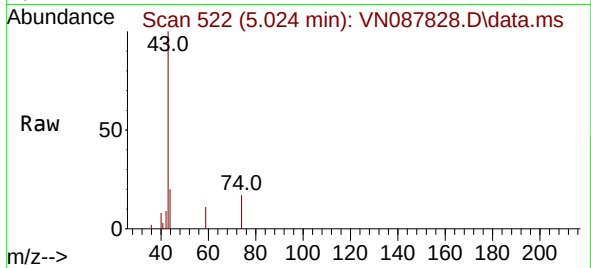




#18
Methyl Acetate
Concen: 5.082 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

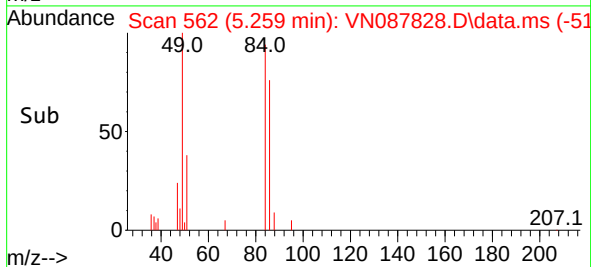
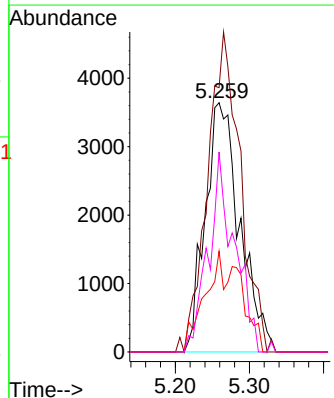
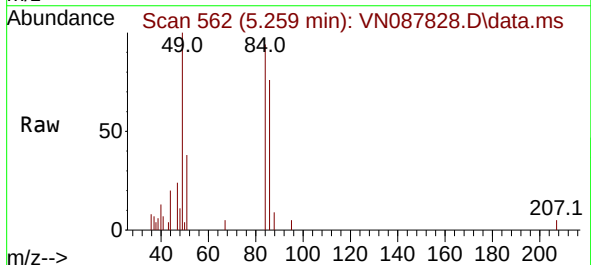
Instrument :
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ClientSampleId :
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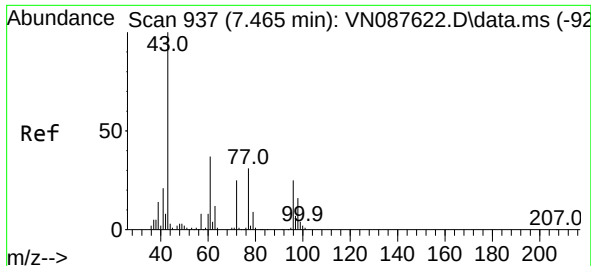
Tgt Ion: 43 Resp: 22025
Ion Ratio Lower Upper
43 100
74 10.4 17.6 26.4#



#20
Methylene Chloride
Concen: 2.777 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 84 Resp: 11823
Ion Ratio Lower Upper
84 100
49 106.0 103.4 155.2
51 40.4 33.8 50.8
86 80.2 49.6 74.4#

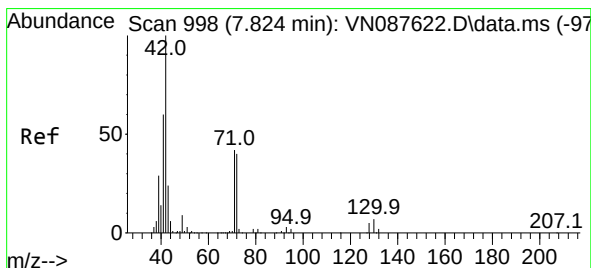
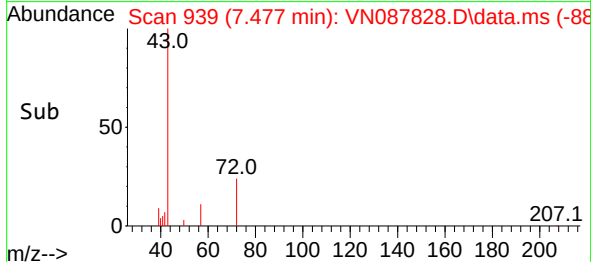
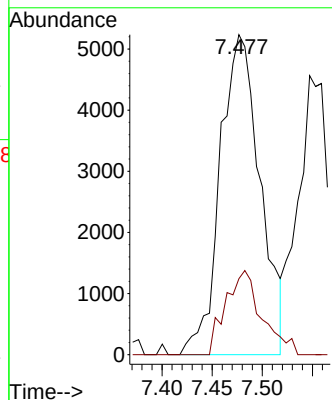
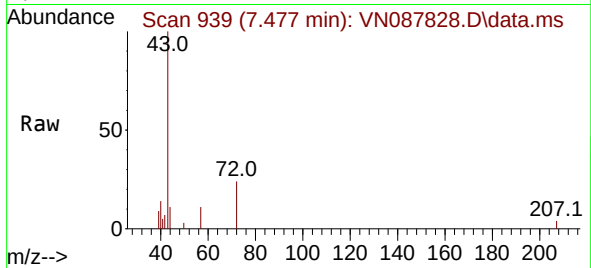




#25
2-Butanone
Concen: 5.338 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

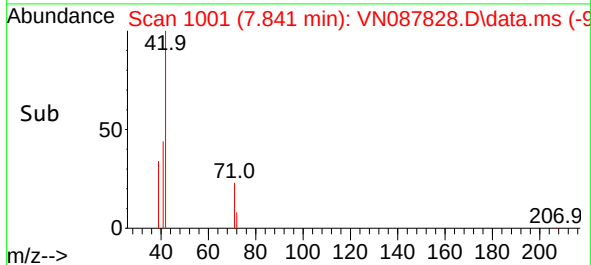
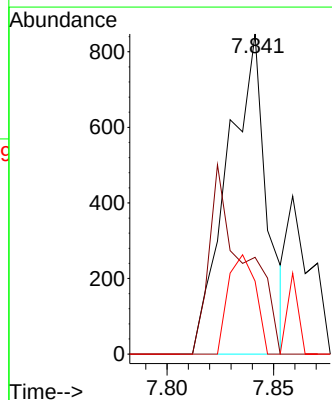
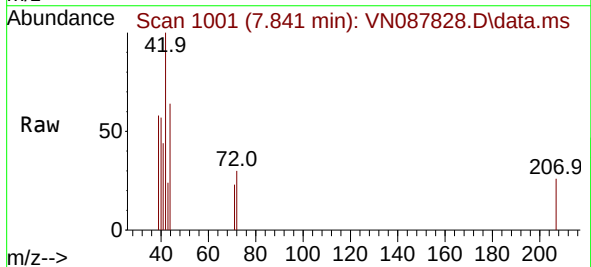
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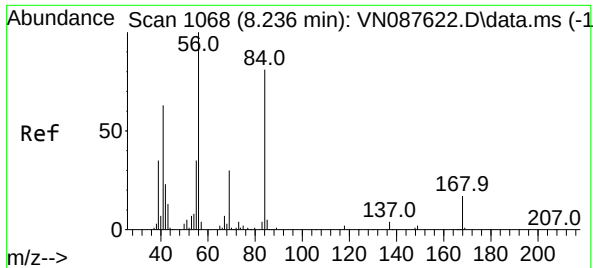
Tgt Ion: 43 Resp: 14535
Ion Ratio Lower Upper
43 100
72 23.7 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.620 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.018 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 42 Resp: 1087
Ion Ratio Lower Upper
42 100
72 53.0 33.7 50.5#
71 21.8 31.9 47.9#

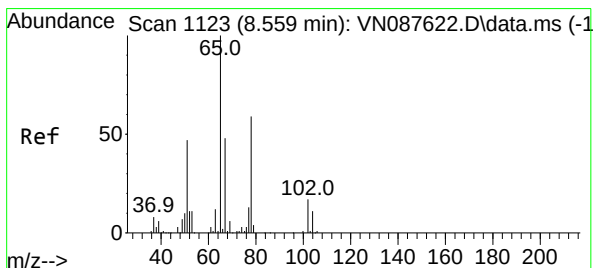
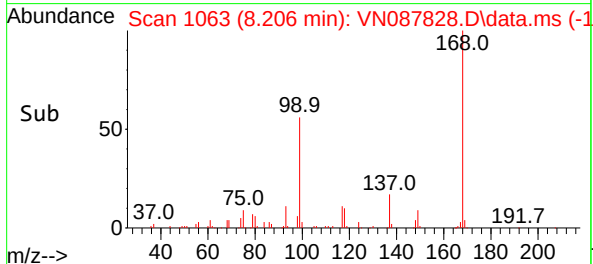
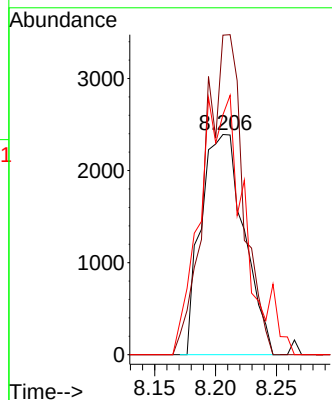
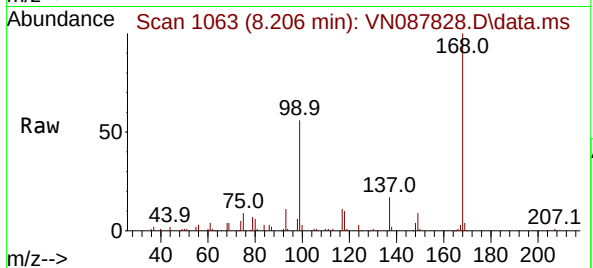




#31
Cyclohexane
Concen: 1.226 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

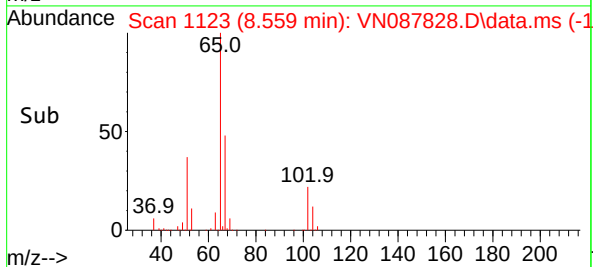
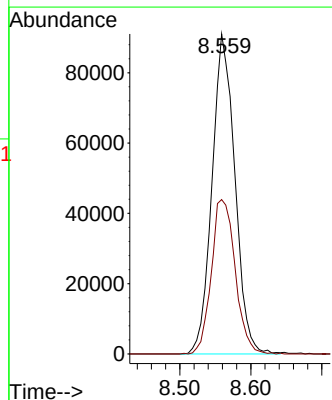
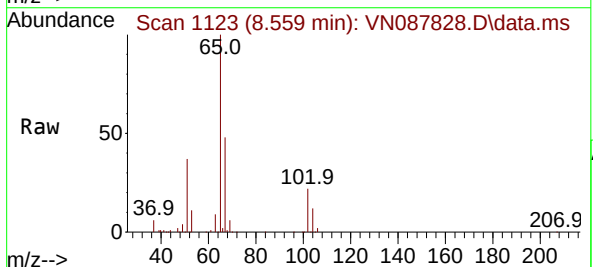
Instrument :
MSVOA_N
ClientSampleId :
WC-29

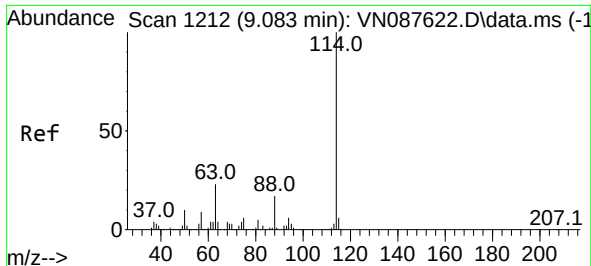
Tgt Ion: 56 Resp: 5864
Ion Ratio Lower Upper
56 100
69 145.1 23.7 35.5#
84 100.7 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 53.445 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 65 Resp: 203203
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.0

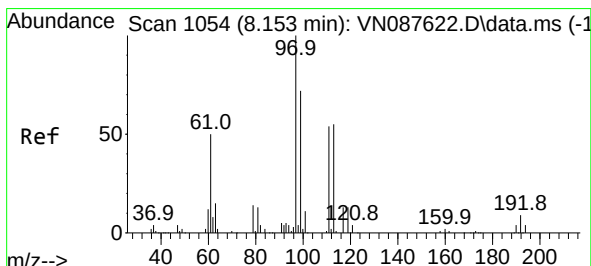
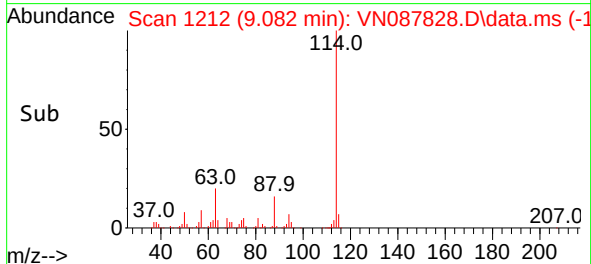
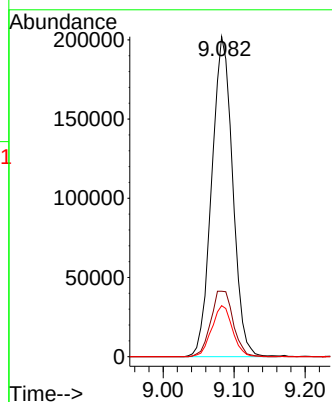
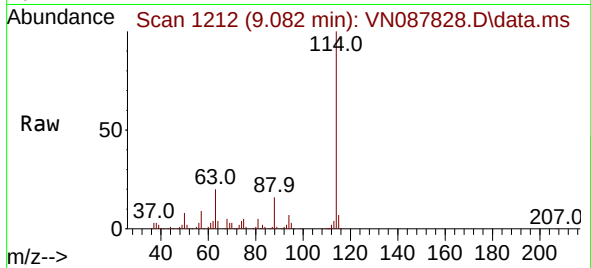




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

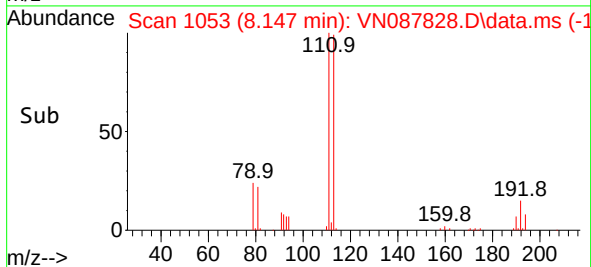
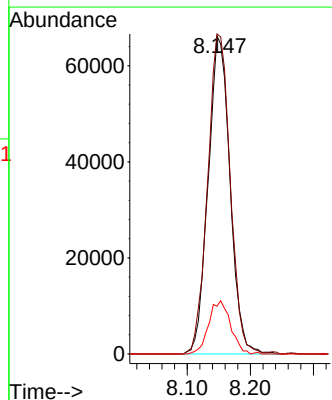
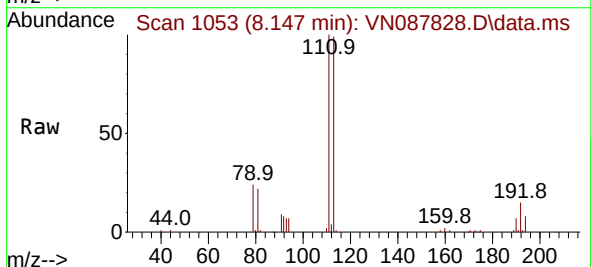
Instrument :
MSVOA_N
ClientSampleId :
WC-29

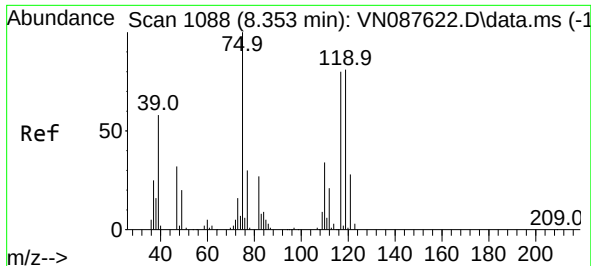
Tgt Ion:114 Resp: 413079
Ion Ratio Lower Upper
114 100
63 20.5 0.0 45.2
88 16.0 0.0 33.4



#35
Dibromofluoromethane
Concen: 53.352 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion:113 Resp: 159119
Ion Ratio Lower Upper
113 100
111 103.5 82.8 124.2
192 16.7 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.839 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087828.D

Acq: 15 Sep 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

WC-29

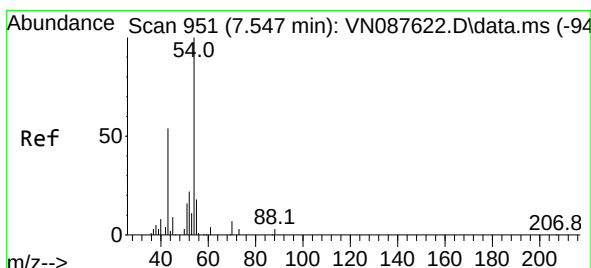
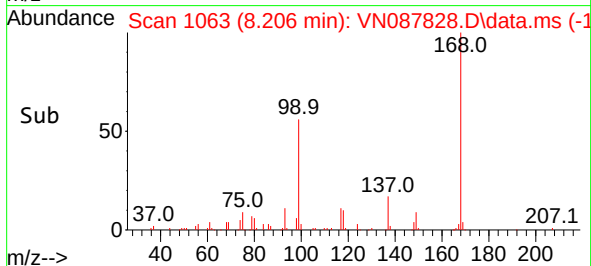
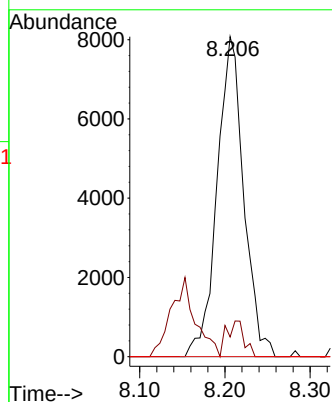
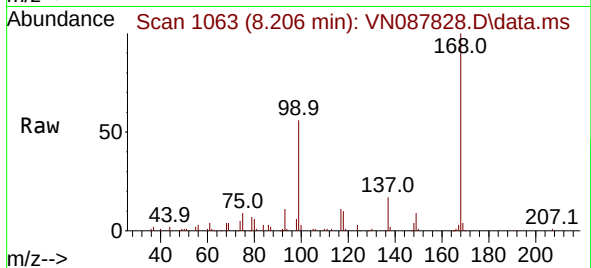
Tgt Ion: 75 Resp: 17566

Ion Ratio Lower Upper

75 100

110 7.3 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 2.065 ug/l

RT: 7.547 min Scan# 951

Delta R.T. -0.000 min

Lab File: VN087828.D

Acq: 15 Sep 2025 11:53

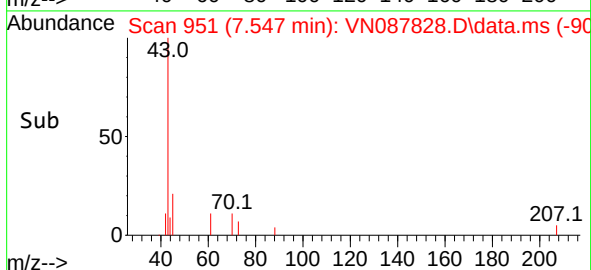
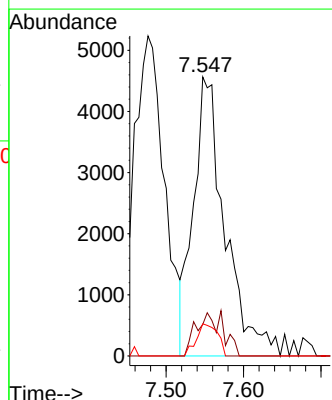
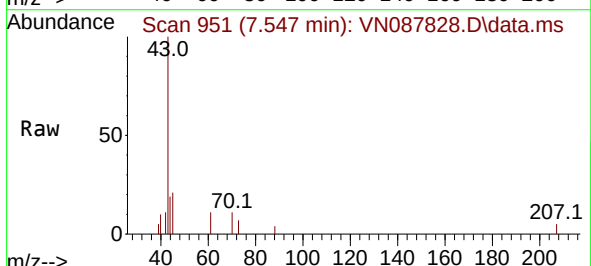
Tgt Ion: 43 Resp: 12908

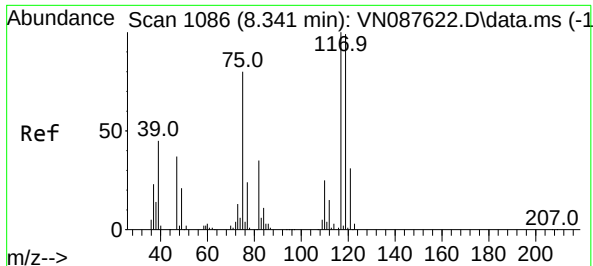
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 7.7 7.0 10.6

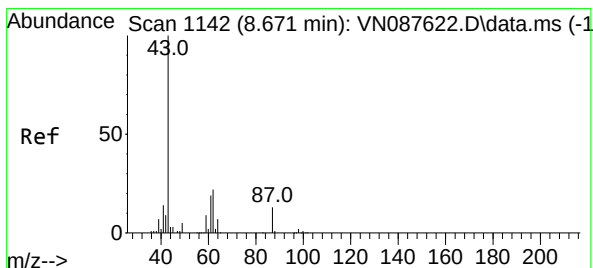
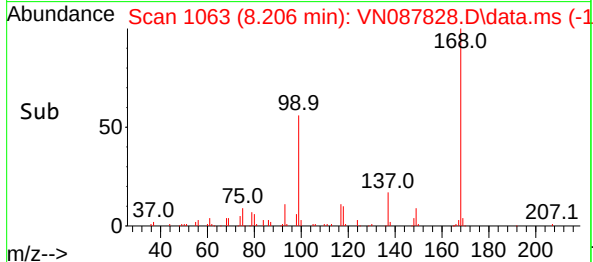
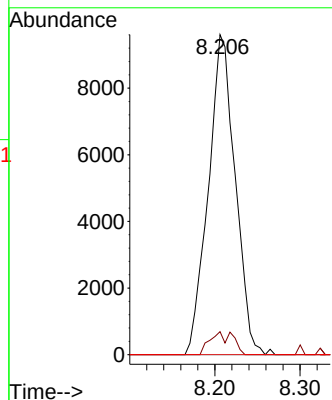
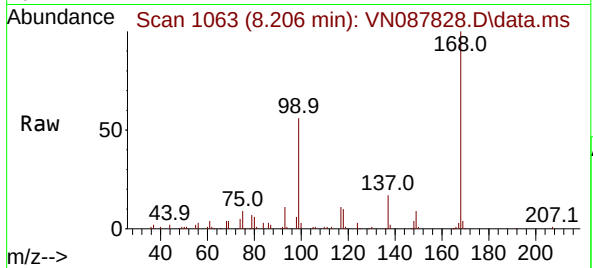




#38
Carbon Tetrachloride
Concen: 4.670 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

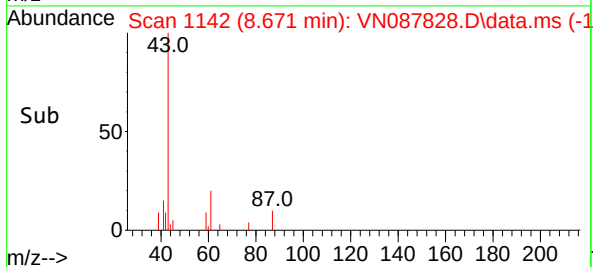
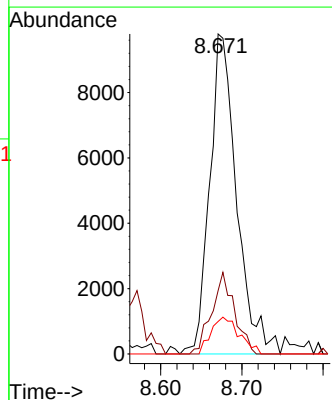
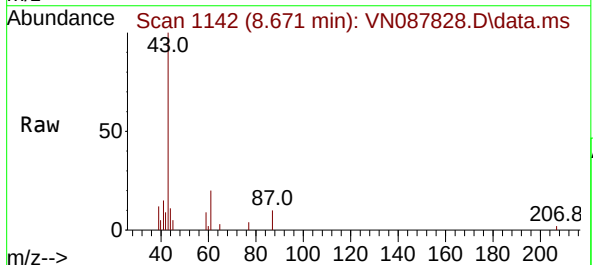
Instrument :
MSVOA_N
ClientSampleId :
WC-29

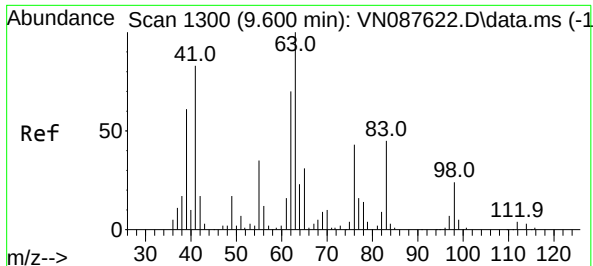
Tgt Ion:117 Resp: 21098
Ion Ratio Lower Upper
117 100
119 7.2 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.317 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 43 Resp: 22616
Ion Ratio Lower Upper
43 100
61 21.6 18.8 28.2
87 12.1 9.6 14.4

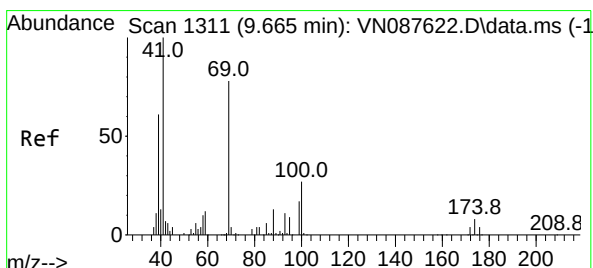
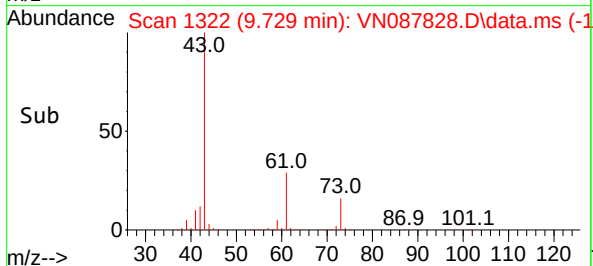
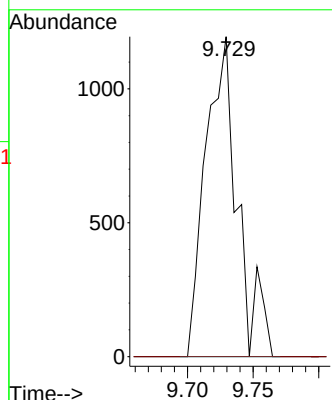
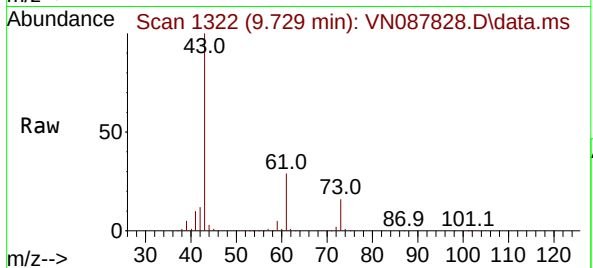




#45
1,2-Dichloropropane
Concen: 0.547 ug/l
RT: 9.729 min Scan# 1300
Delta R.T. 0.129 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

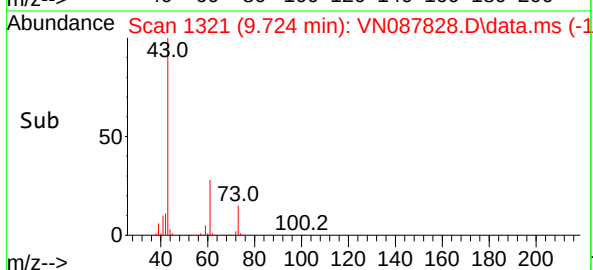
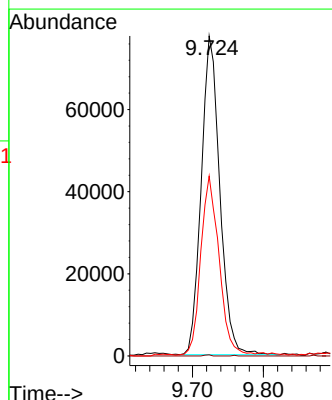
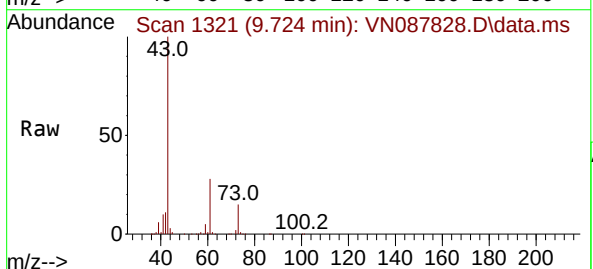
Instrument :
MSVOA_N
ClientSampleId :
WC-29

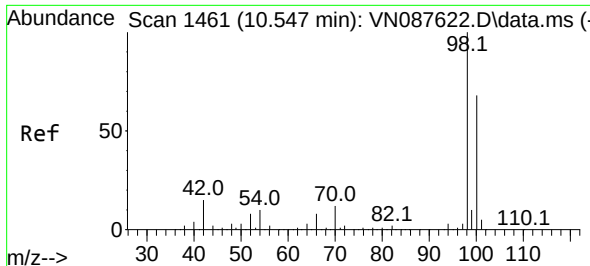
Tgt Ion: 63 Resp: 2024
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#



#48
Methyl methacrylate
Concen: 30.611 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.059 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 41 Resp: 141338
Ion Ratio Lower Upper
41 100
69 0.1 62.7 94.1#
39 55.2 52.9 79.3

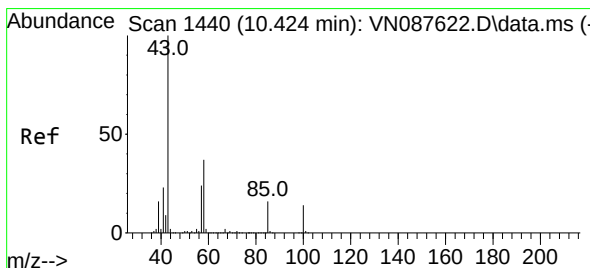
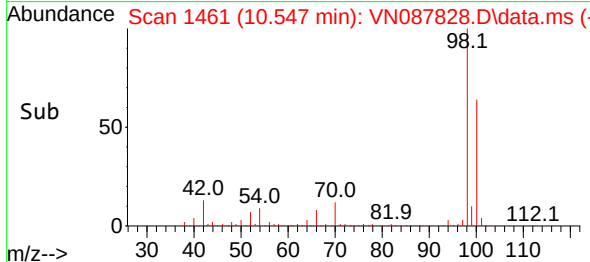
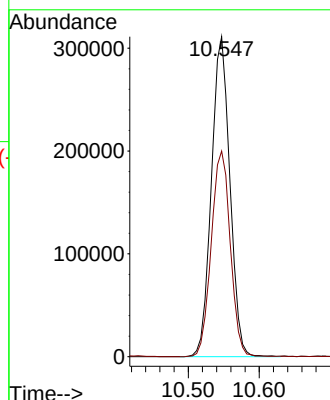
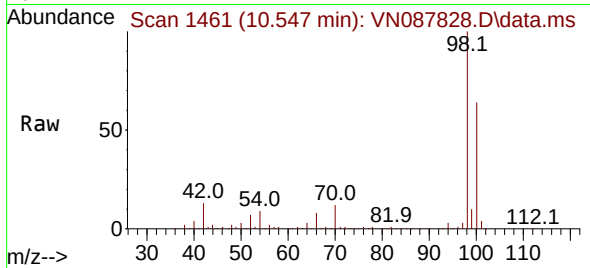




#50
Toluene-d8
Concen: 50.269 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

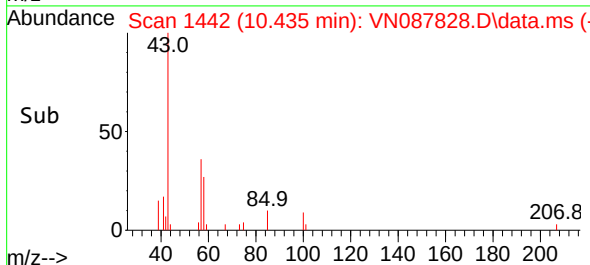
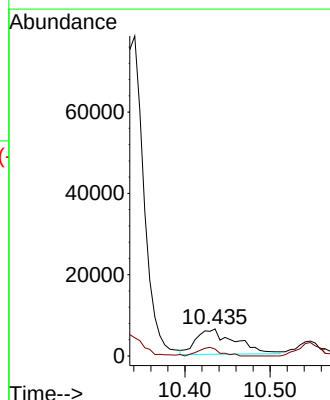
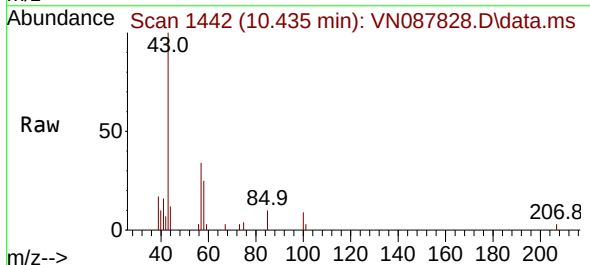
Instrument :
MSVOA_N
ClientSampleId :
WC-29

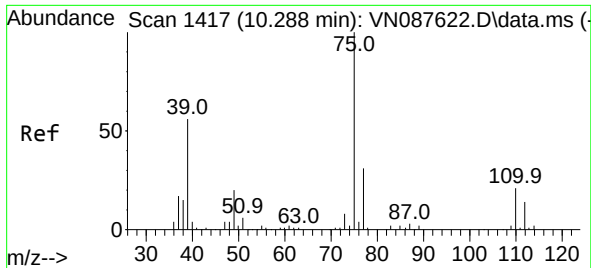
Tgt Ion: 98 Resp: 561137
Ion Ratio Lower Upper
98 100
100 66.1 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 3.356 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 43 Resp: 19767
Ion Ratio Lower Upper
43 100
58 18.8 29.6 44.4#

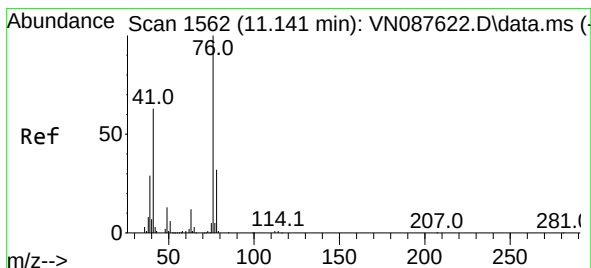
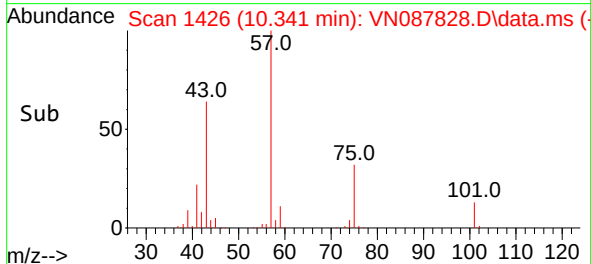
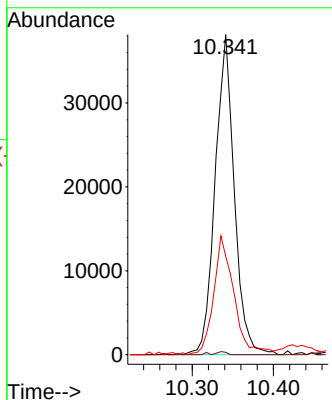
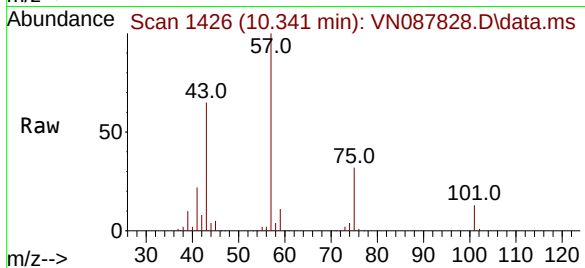




#54
 cis-1,3-Dichloropropene
 Concen: 10.778 ug/l
 RT: 10.341 min Scan# 1417
 Delta R.T. 0.053 min
 Lab File: VN087828.D
 Acq: 15 Sep 2025 11:53

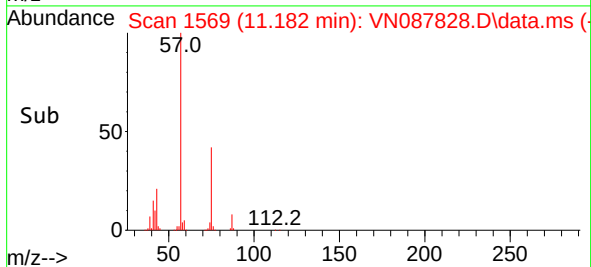
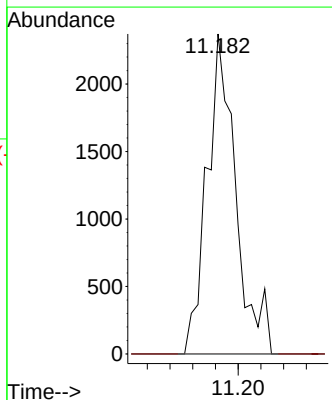
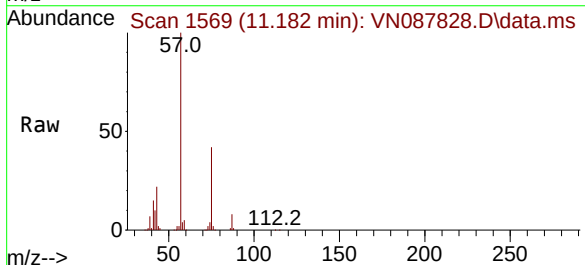
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-29

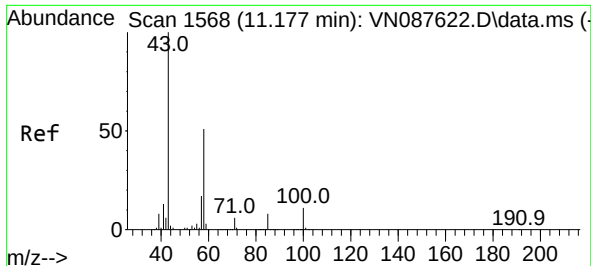
Tgt Ion: 75 Resp: 62495
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.6 37.0#
 39 30.8 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.699 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN087828.D
 Acq: 15 Sep 2025 11:53

Tgt Ion: 76 Resp: 4162
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

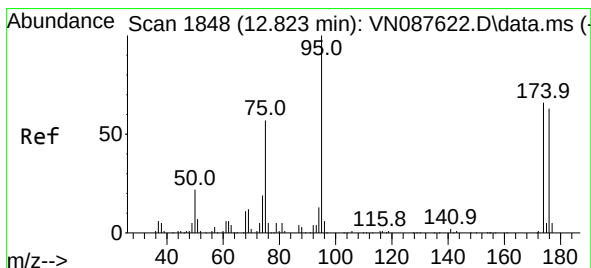
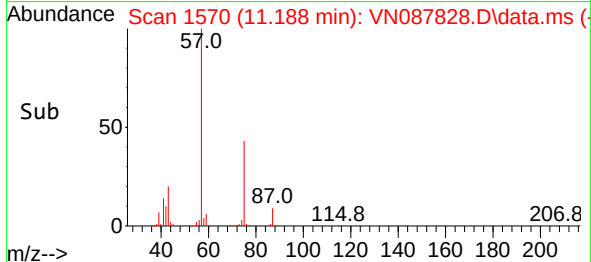
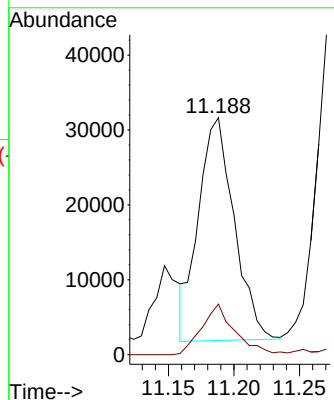
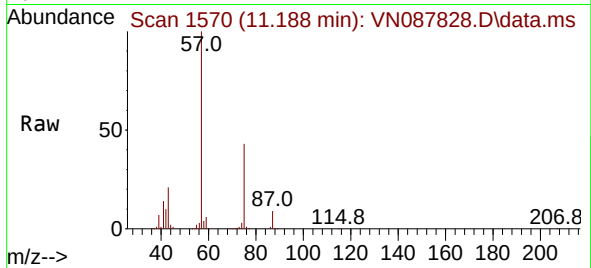




#59
2-Hexanone
Concen: 15.166 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

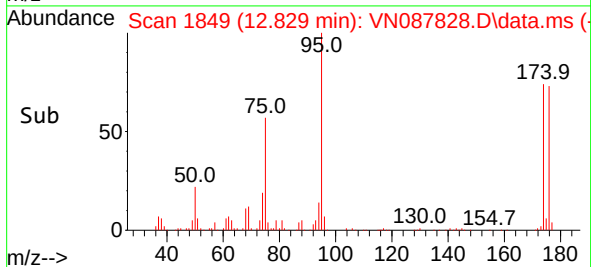
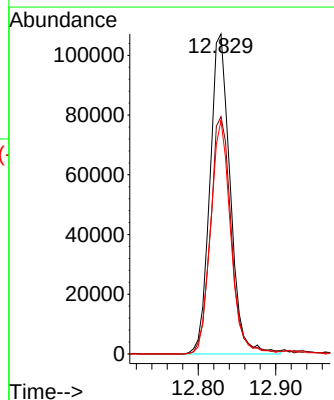
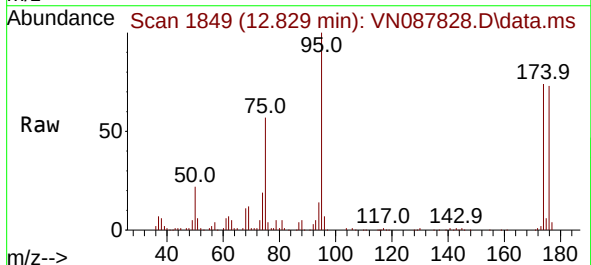
Instrument :
MSVOA_N
ClientSampleId :
WC-29

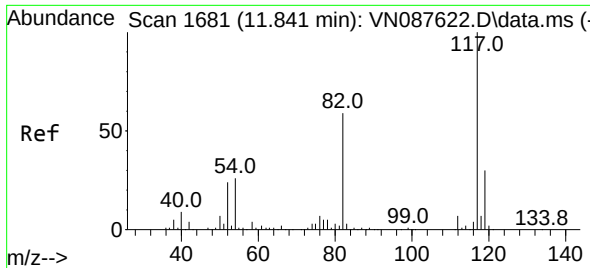
Tgt Ion: 43 Resp: 56448
Ion Ratio Lower Upper
43 100
58 21.1 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.933 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 95 Resp: 194254
Ion Ratio Lower Upper
95 100
174 76.1 0.0 138.4
176 72.3 0.0 132.6

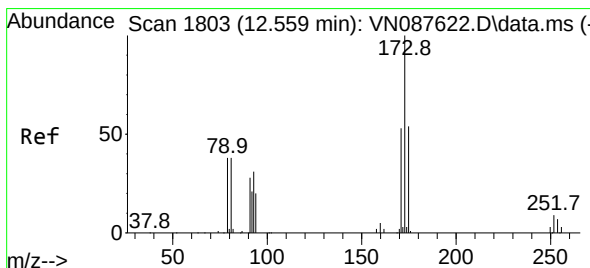
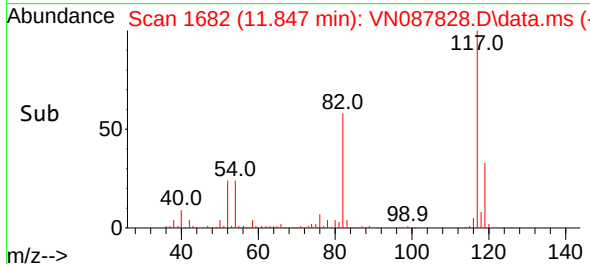
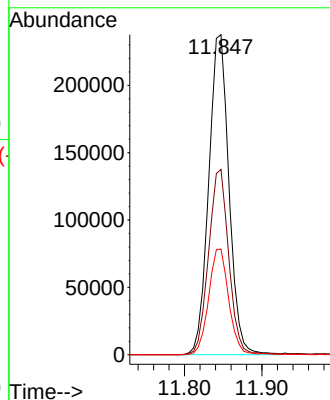
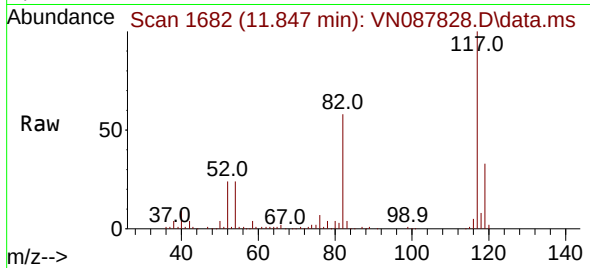




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11847
Delta R.T. 0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

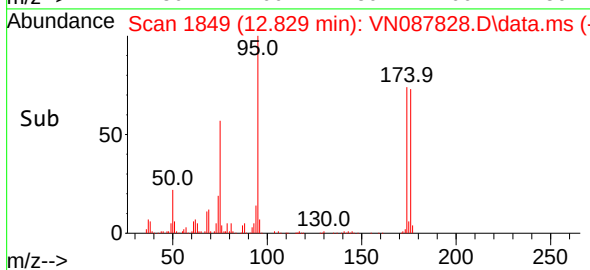
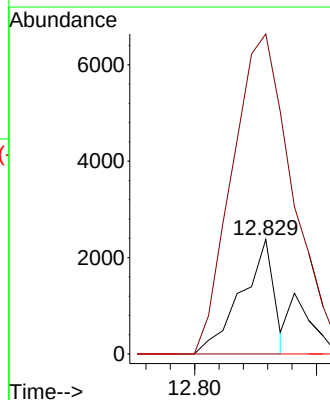
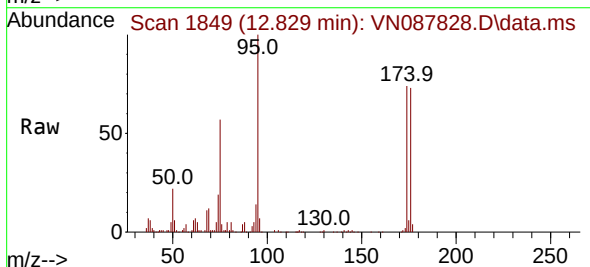
Instrument :
MSVOA_N
ClientSampleId :
WC-29

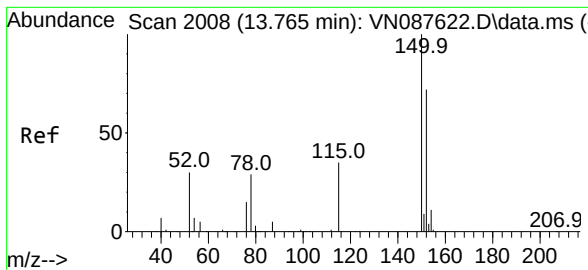
Tgt Ion:117 Resp: 431474
Ion Ratio Lower Upper
117 100
82 57.9 47.4 71.2
119 33.0 24.3 36.5



#71
Bromoform
Concen: 0.806 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion:173 Resp: 2203
Ion Ratio Lower Upper
173 100
175 414.0 24.9 74.6#
254 0.0 0.1 0.1#

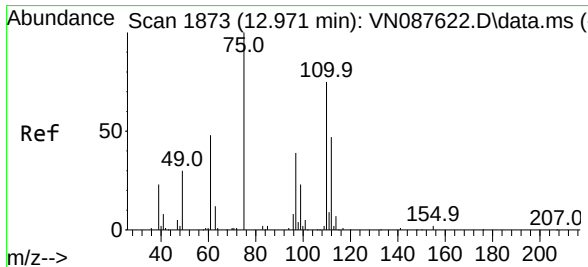
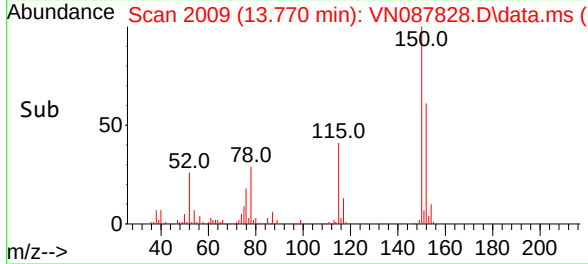
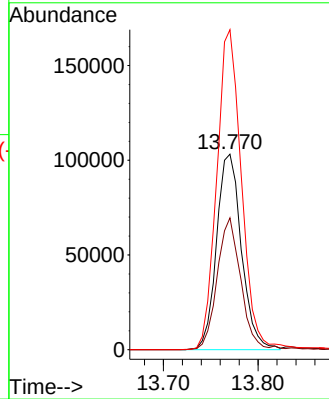
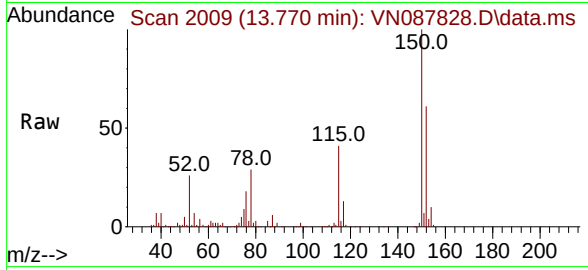




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

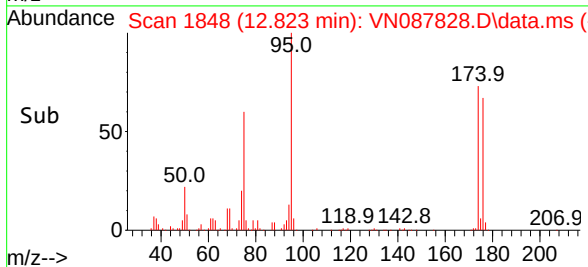
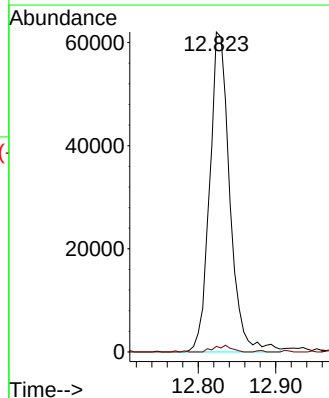
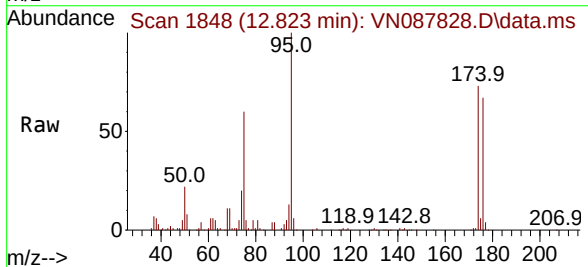
Instrument :
MSVOA_N
ClientSampleId :
WC-29

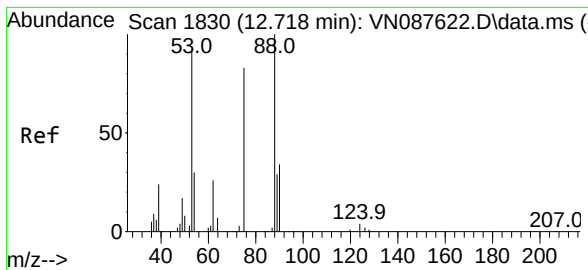
Tgt Ion:152 Resp: 188553
Ion Ratio Lower Upper
152 100
115 63.9 32.3 96.8
150 164.0 0.0 351.0



#76
1,2,3-Trichloropropane
Concen: 25.326 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN087828.D
Acq: 15 Sep 2025 11:53

Tgt Ion: 75 Resp: 111984
Ion Ratio Lower Upper
75 100
77 1.8 89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.048 ug/l
 RT: 12.823 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN087828.D
 Acq: 15 Sep 2025 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-29

Tgt Ion: 75 Resp: 111984
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.4 35.6 53.4#

