

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087830.D
 Acq On : 15 Sep 2025 12:35
 Operator : JC\MD
 Sample : Q3082-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-31

Quant Time: Sep 16 01:34:43 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

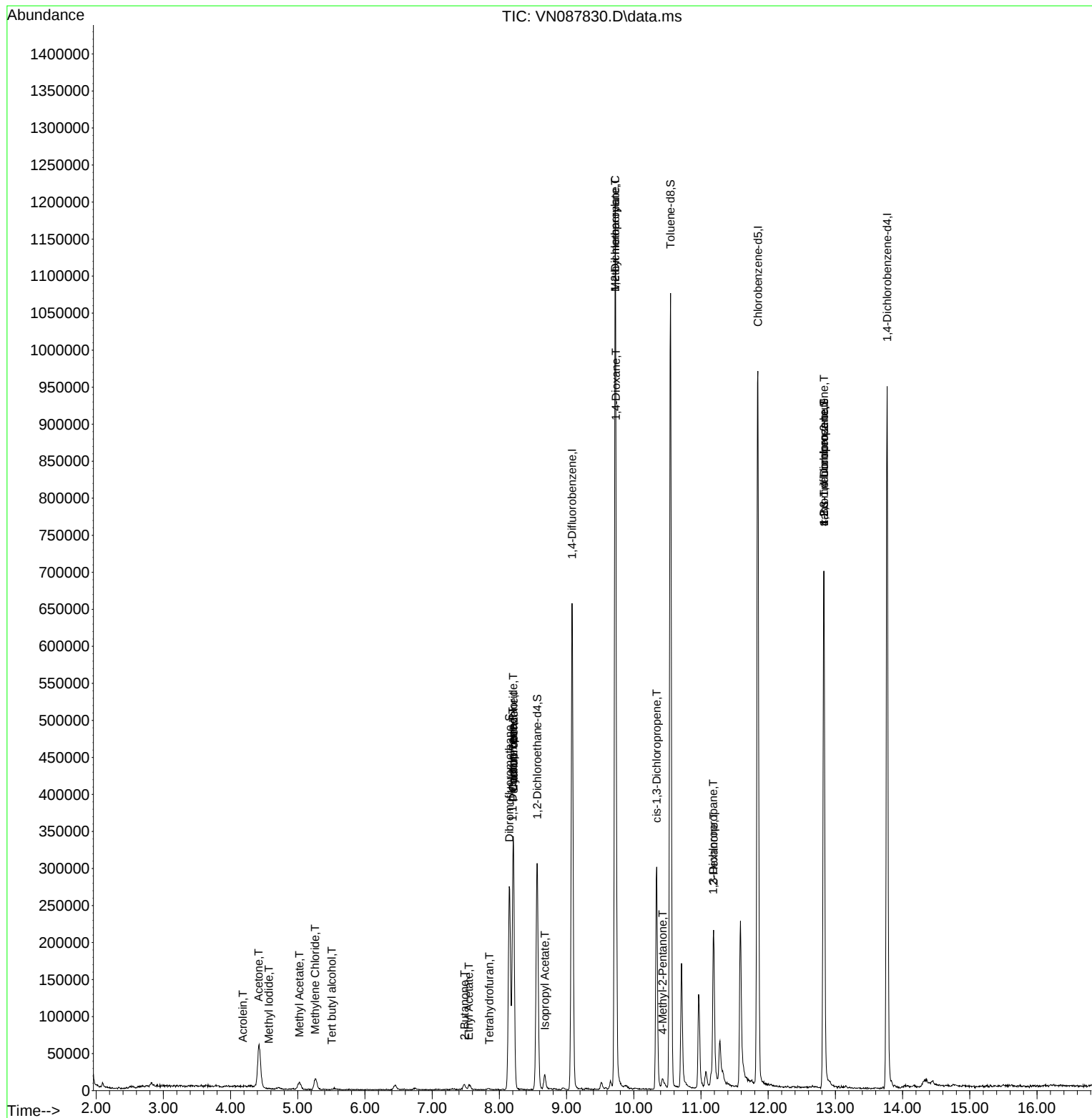
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.212	168	225062	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	534258	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	549102	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	248732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	252254	54.704	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.400%	
35) Dibromofluoromethane	8.147	113	195044	50.564	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.120%	
50) Toluene-d8	10.547	98	721226	49.956	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.920%	
62) 4-Bromofluorobenzene	12.829	95	246401	47.991	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 95.980%	
Target Compounds						Qvalue
10) Methyl Iodide	4.571	142	123	6.855	ug/l #	38
11) Tert butyl alcohol	5.506	59	666	0.832	ug/l #	92
13) Acrolein	4.183	56	315	0.320	ug/l	94
16) Acetone	4.418	43	111235	44.313	ug/l	93
18) Methyl Acetate	5.024	43	21350	4.062	ug/l	97
20) Methylene Chloride	5.259	84	9923	1.529	ug/l	89
25) 2-Butanone	7.482	43	11604	3.514	ug/l	95
29) Tetrahydrofuran	7.853	42	954	0.449	ug/l #	51
31) Cyclohexane	8.206	56	6524	1.125	ug/l #	47
36) 1,1-Dichloropropene	8.200	75	22013	3.720	ug/l #	46
37) Ethyl Acetate	7.547	43	11445	1.415	ug/l #	90
38) Carbon Tetrachloride	8.206	117	24915	4.264	ug/l #	15
43) Isopropyl Acetate	8.676	43	22571	1.788	ug/l #	91
45) 1,2-Dichloropropane	9.723	63	1390	0.291	ug/l #	43
48) Methyl methacrylate	9.723	41	117499	19.676	ug/l #	46
49) 1,4-Dioxane	9.735	88	132	1.705	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	17093	2.244	ug/l #	76
54) cis-1,3-Dichloropropene	10.341	75	53367	7.116	ug/l #	68
57) 1,3-Dichloropropane	11.182	76	2303	0.299	ug/l #	42
59) 2-Hexanone	11.188	43	39076	8.117	ug/l #	56
76) 1,2,3-Trichloropropane	12.829	75	139107	23.849	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	139107	63.137	ug/l #	1

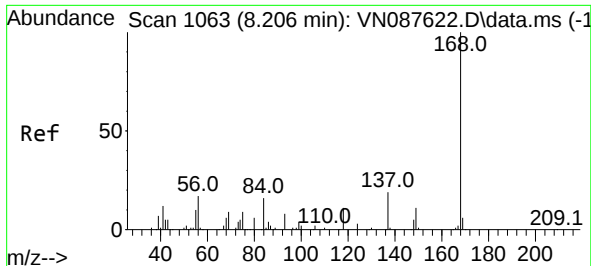
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
Data File : VN087830.D
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ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-31

Quant Time: Sep 16 01:34:43 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

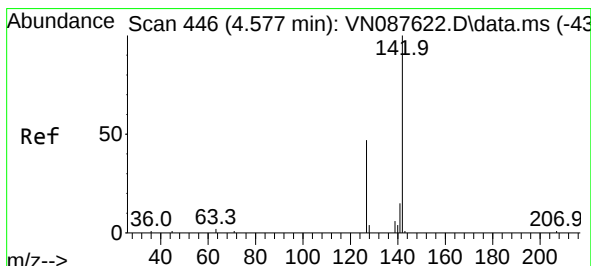
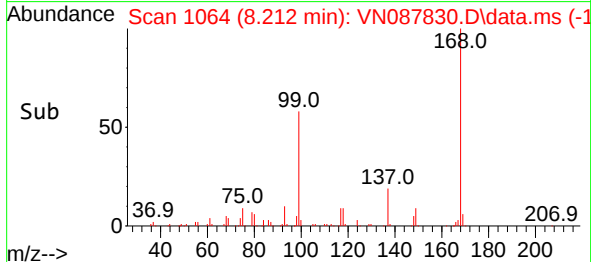
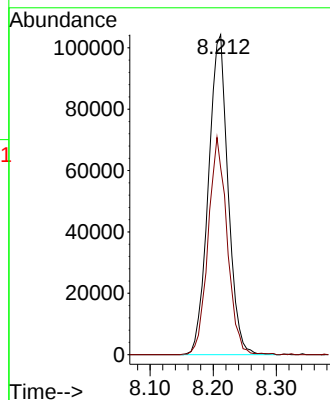
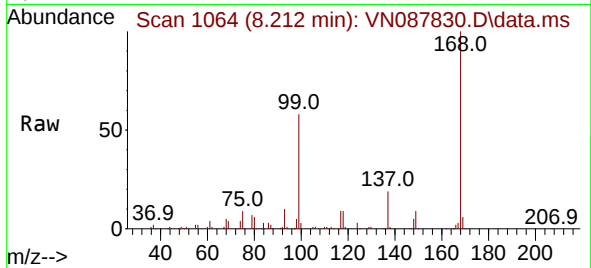




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

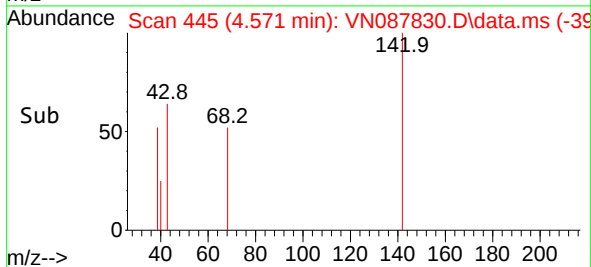
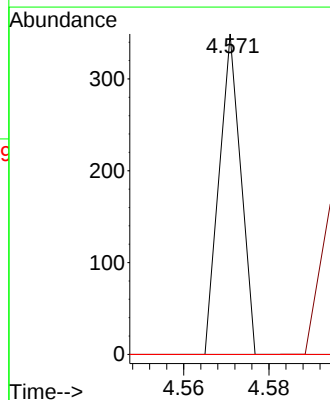
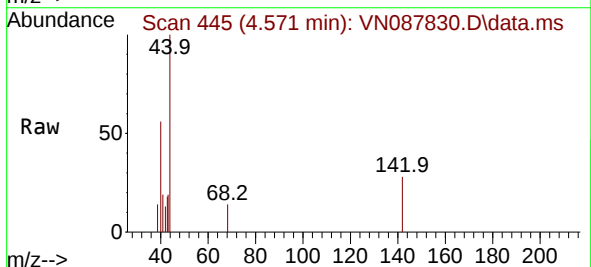
Instrument :
MSVOA_N
ClientSampleId :
WC-31

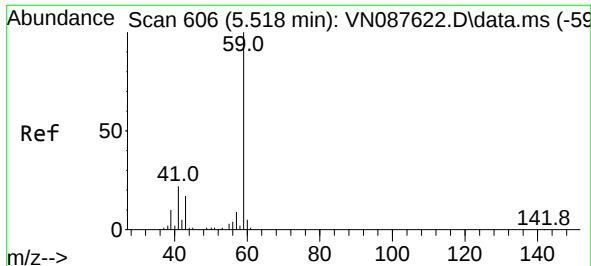
Tgt Ion:168 Resp: 225062
Ion Ratio Lower Upper
168 100
99 58.3 57.2 85.8



#10
Methyl Iodide
Concen: 6.855 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion:142 Resp: 123
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

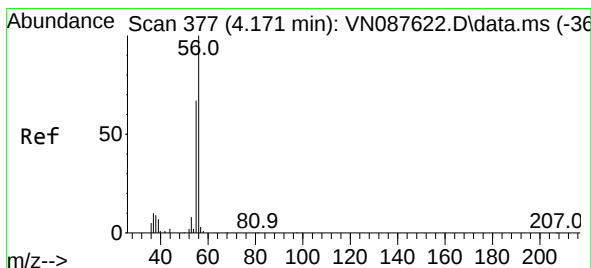
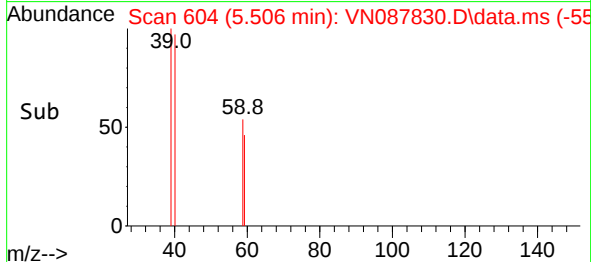
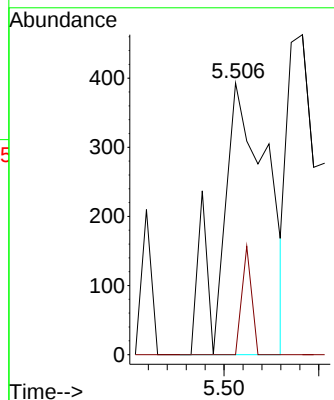
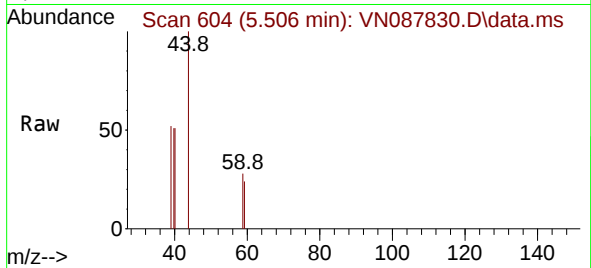




#11
Tert butyl alcohol
Concen: 0.832 ug/l
RT: 5.506 min Scan# 606
Delta R.T. -0.012 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

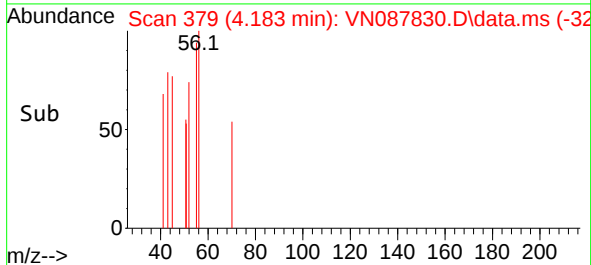
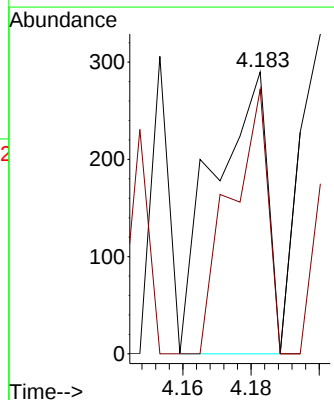
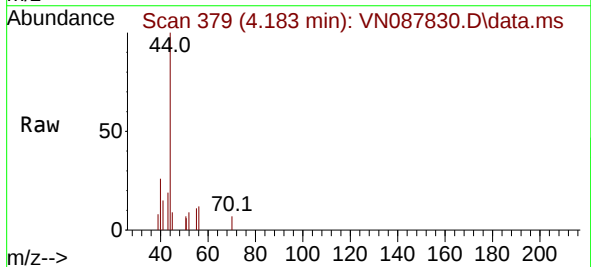
Instrument :
MSVOA_N
ClientSampleId :
WC-31

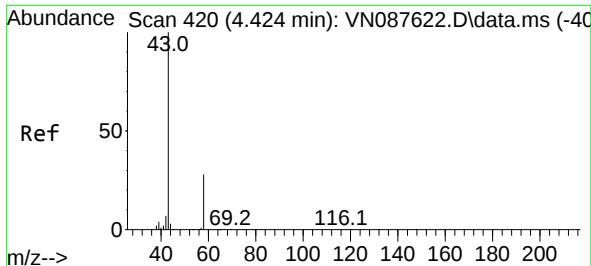
Tgt Ion: 59 Resp: 666
Ion Ratio Lower Upper
59 100
57 8.3 9.0 13.4#



#13
Acrolein
Concen: 0.320 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion: 56 Resp: 315
Ion Ratio Lower Upper
56 100
55 66.3 57.3 85.9

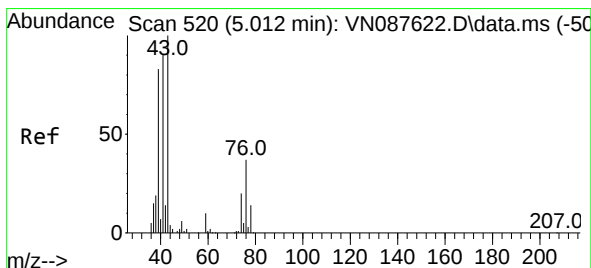
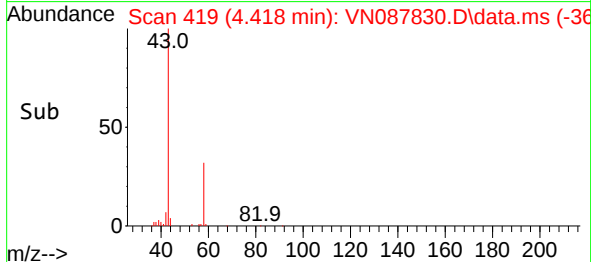
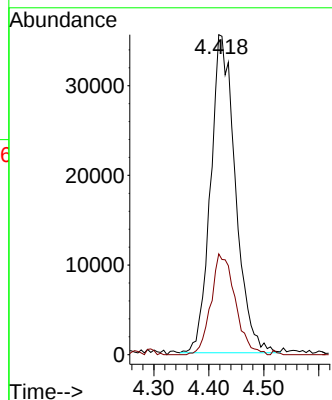
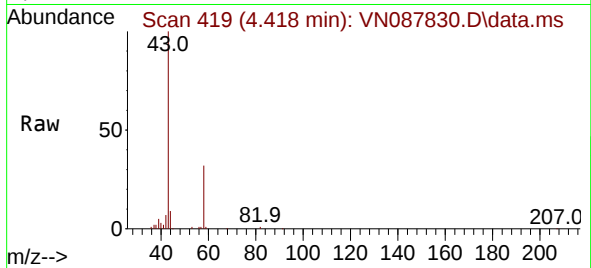




#16
Acetone
Concen: 44.313 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

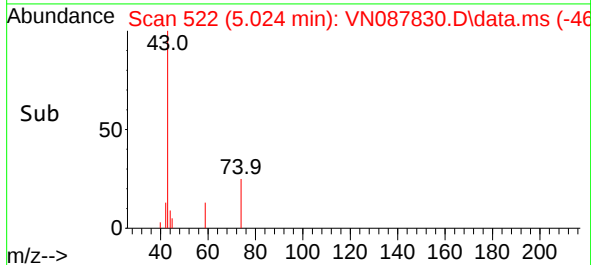
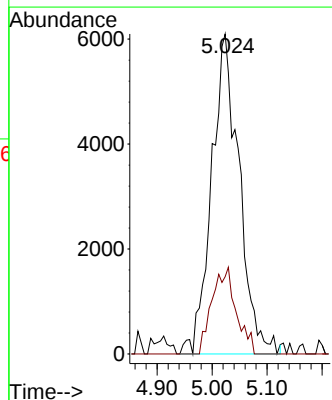
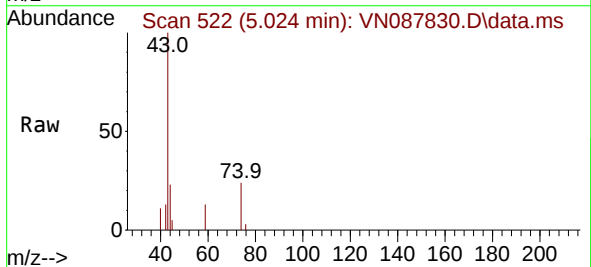
Instrument :
MSVOA_N
ClientSampleId :
WC-31

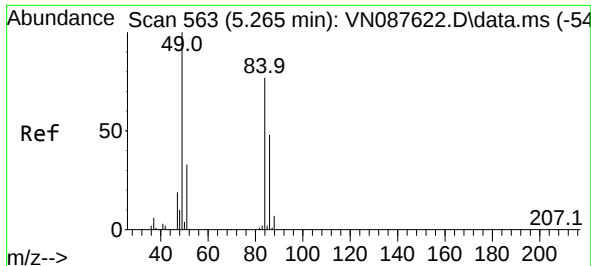
Tgt Ion: 43 Resp: 111235
Ion Ratio Lower Upper
43 100
58 31.7 22.6 33.8



#18
Methyl Acetate
Concen: 4.062 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion: 43 Resp: 21350
Ion Ratio Lower Upper
43 100
74 23.6 17.6 26.4

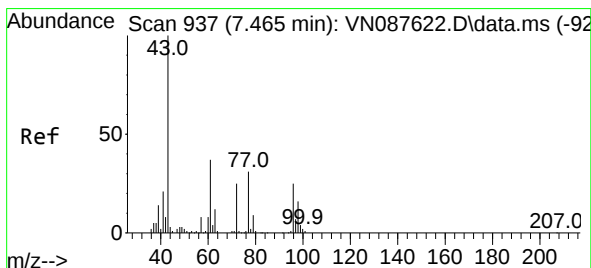
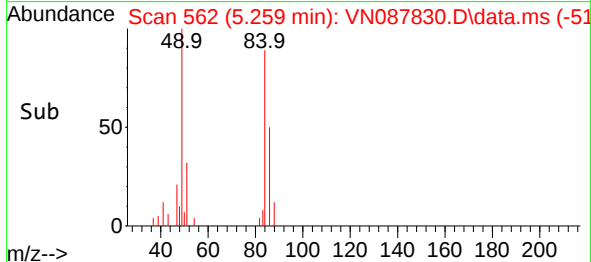
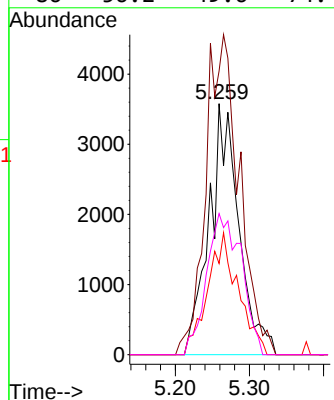
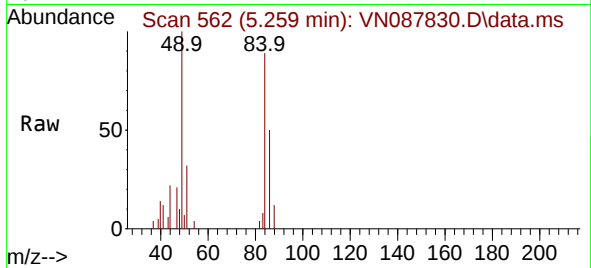




#20
Methylene Chloride
Concen: 1.529 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

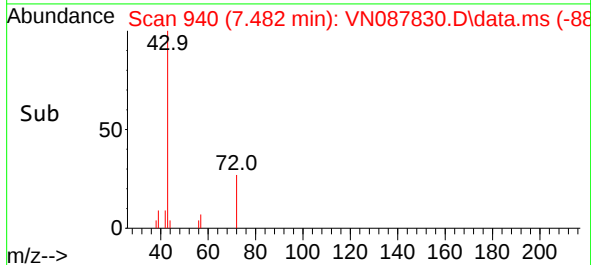
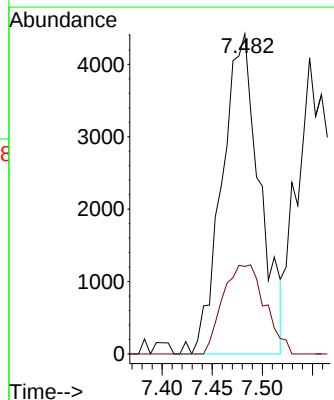
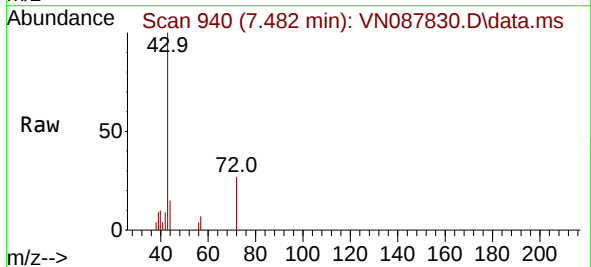
Instrument :
MSVOA_N
ClientSampleId :
WC-31

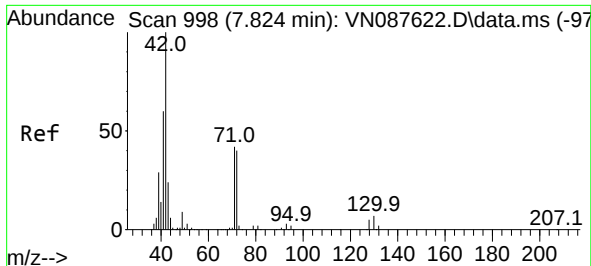
Tgt Ion:	84	Resp:	9923
Ion	Ratio	Lower	Upper
84	100		
49	113.0	103.4	155.2
51	36.3	33.8	50.8
86	56.2	49.6	74.4



#25
2-Butanone
Concen: 3.514 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.017 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion:	43	Resp:	11604
Ion	Ratio	Lower	Upper
43	100		
72	27.4	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.449 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.029 min

Lab File: VN087830.D

Acq: 15 Sep 2025 12:35

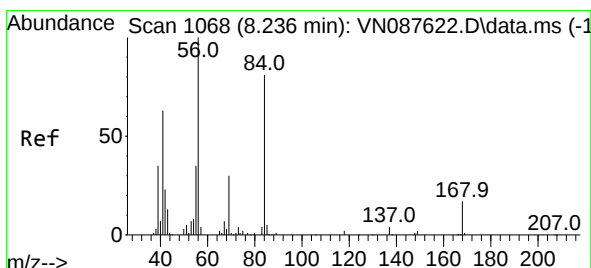
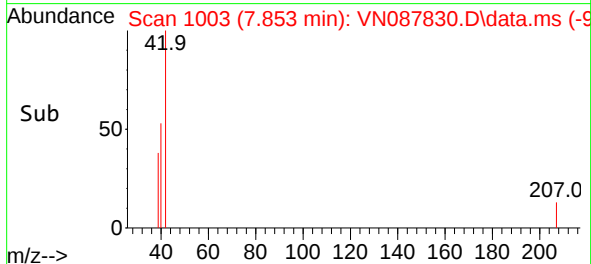
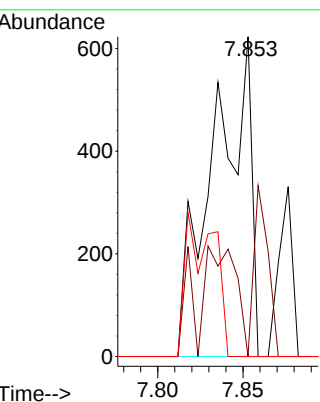
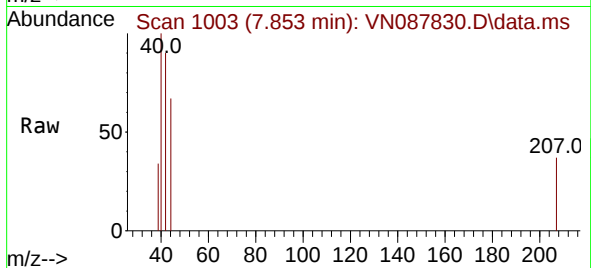
Instrument :

MSVOA_N

ClientSampleId :

WC-31

Tgt Ion:	42	Resp:	954
Ion	Ratio	Lower	Upper
42	100		
72	19.9	33.7	50.5#
71	0.0	31.9	47.9#



#31

Cyclohexane

Concen: 1.125 ug/l

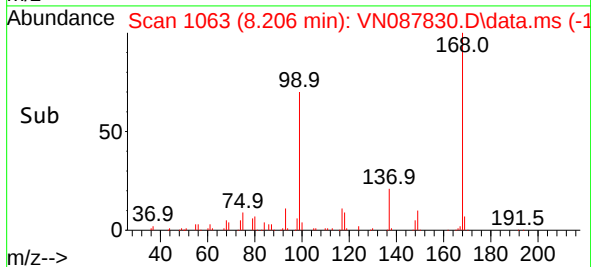
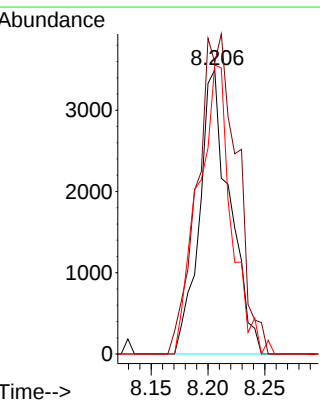
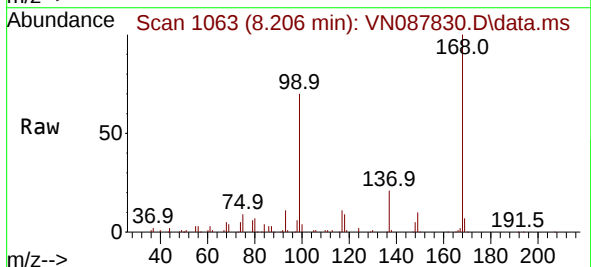
RT: 8.206 min Scan# 1063

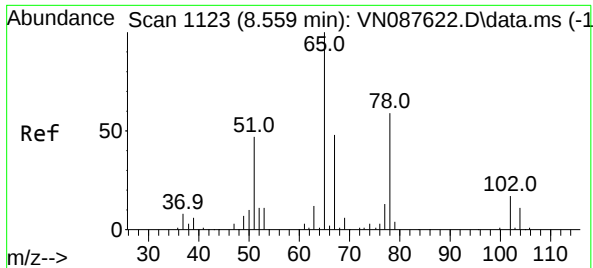
Delta R.T. -0.030 min

Lab File: VN087830.D

Acq: 15 Sep 2025 12:35

Tgt Ion:	56	Resp:	6524
Ion	Ratio	Lower	Upper
56	100		
69	102.6	23.7	35.5#
84	101.7	64.7	97.1#

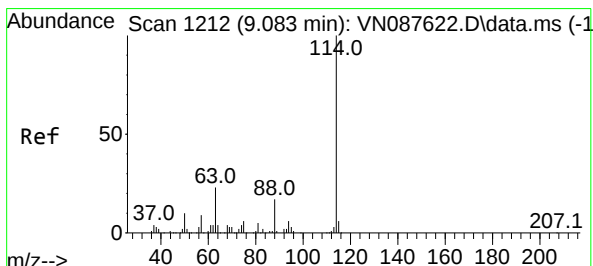
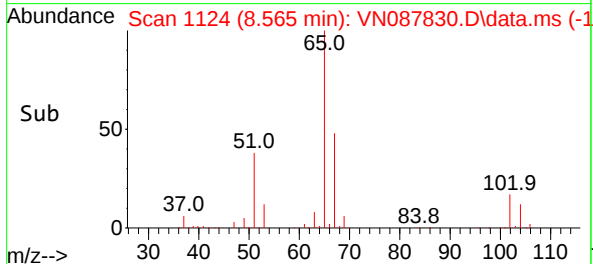
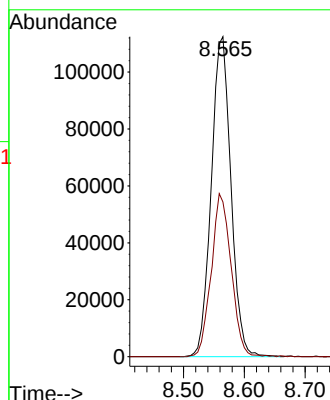
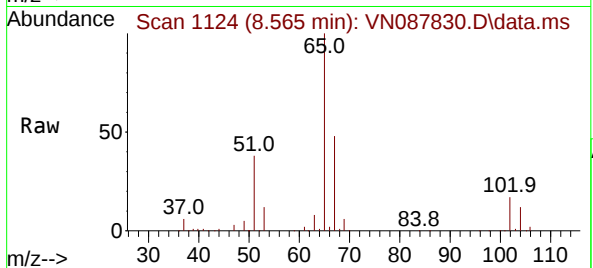




#33
 1,2-Dichloroethane-d4
 Concen: 54.704 ug/l
 RT: 8.565 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: VN087830.D
 Acq: 15 Sep 2025 12:35

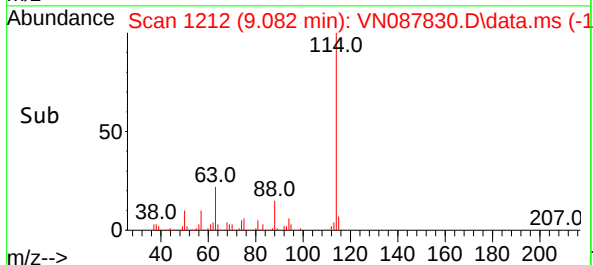
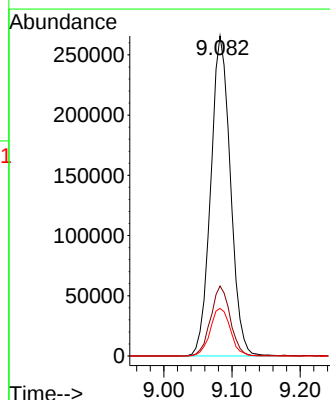
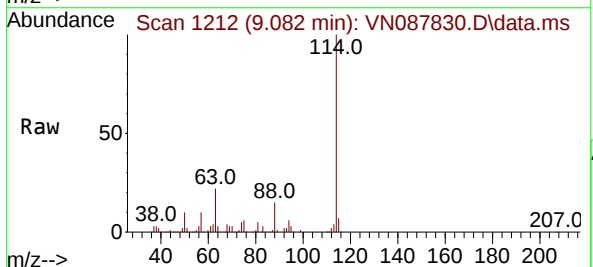
Instrument :
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 ClientSampleId :
 WC-31

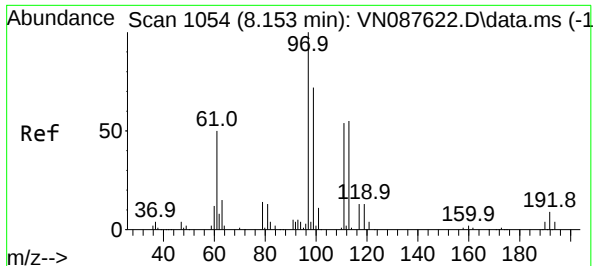
Tgt Ion: 65 Resp: 252254
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 100.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087830.D
 Acq: 15 Sep 2025 12:35

Tgt Ion: 114 Resp: 534258
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 45.2
 88 14.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.564 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087830.D

Acq: 15 Sep 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

WC-31

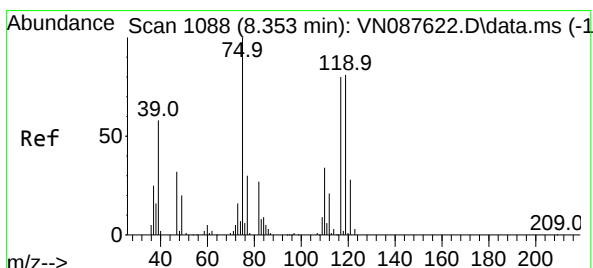
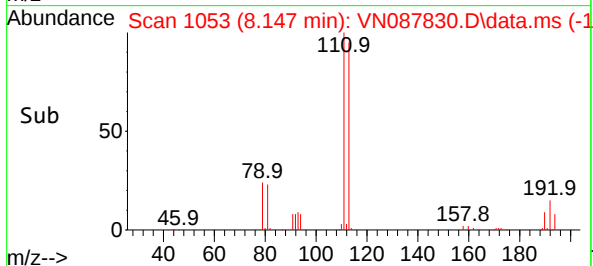
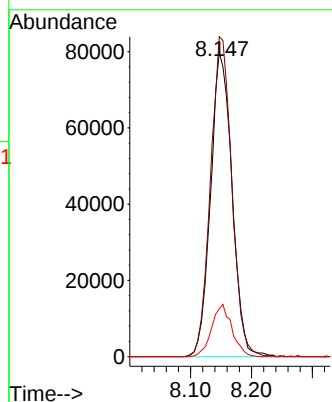
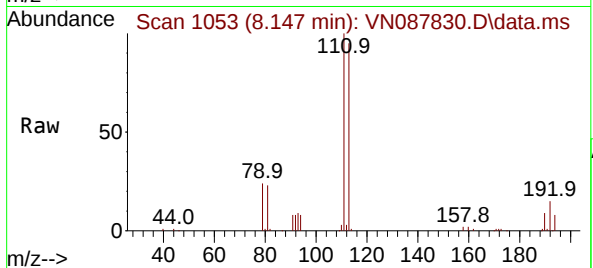
Tgt Ion:113 Resp: 195044

Ion Ratio Lower Upper

113 100

111 104.3 82.8 124.2

192 16.3 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.720 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087830.D

Acq: 15 Sep 2025 12:35

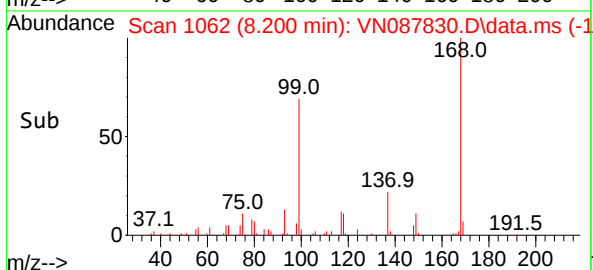
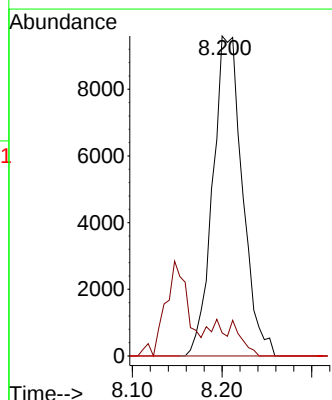
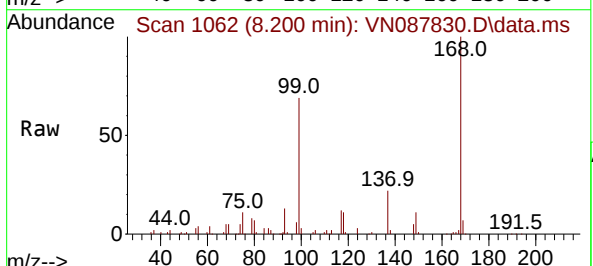
Tgt Ion: 75 Resp: 22013

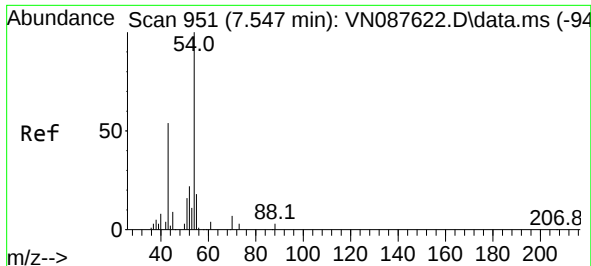
Ion Ratio Lower Upper

75 100

110 2.5 15.9 47.6#

77 0.0 24.4 36.6#

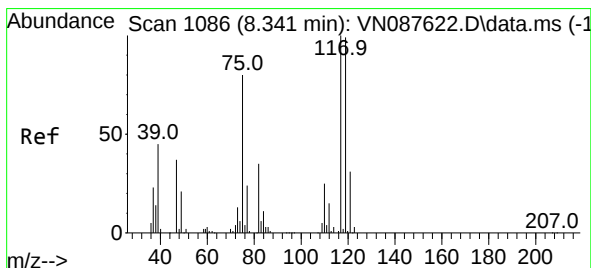
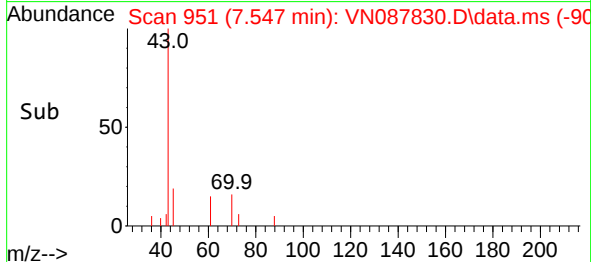
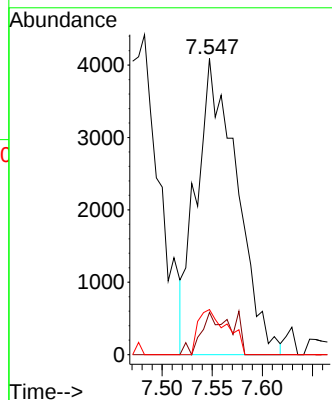
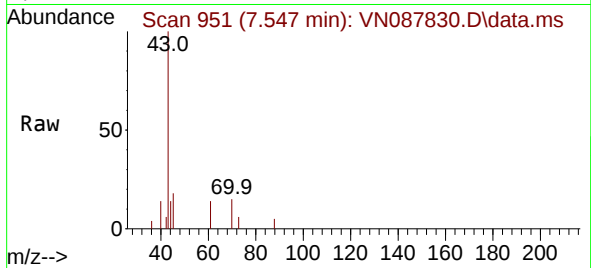




#37
Ethyl Acetate
Concen: 1.415 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

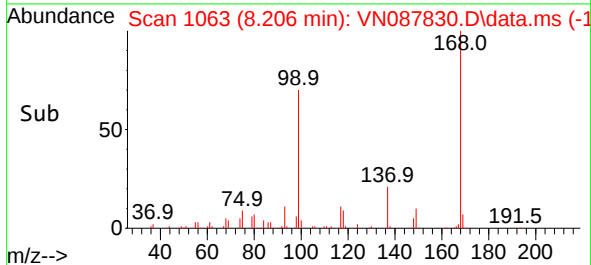
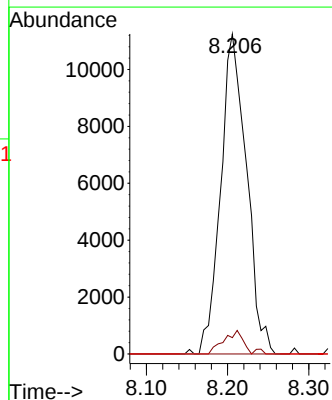
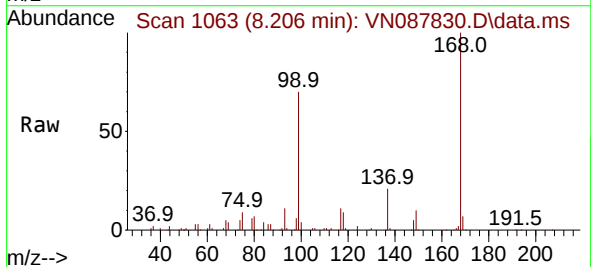
Instrument :
MSVOA_N
ClientSampleId :
WC-31

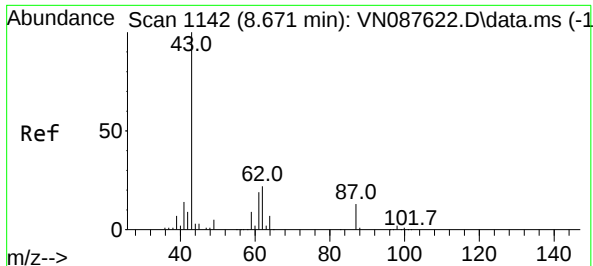
Tgt Ion: 43 Resp: 11445
Ion Ratio Lower Upper
43 100
61 6.7 9.3 13.9#
70 11.1 7.0 10.6#



#38
Carbon Tetrachloride
Concen: 4.264 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.136 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion: 117 Resp: 24915
Ion Ratio Lower Upper
117 100
119 5.1 79.0 118.6#
121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 1.788 ug/l

RT: 8.676 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN087830.D

Acq: 15 Sep 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

WC-31

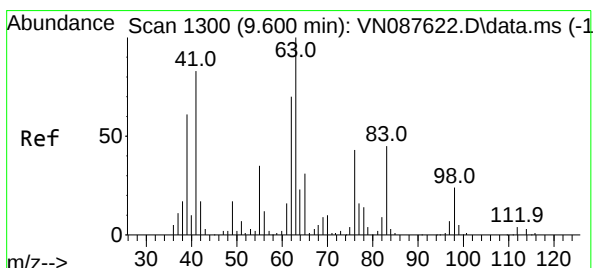
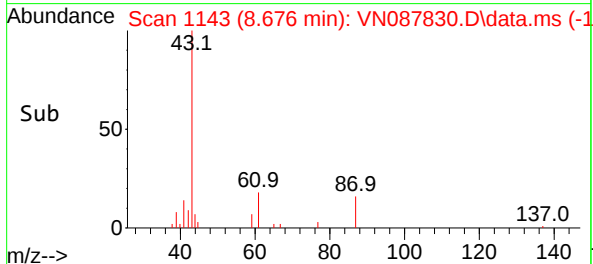
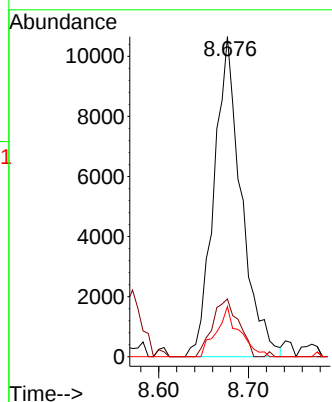
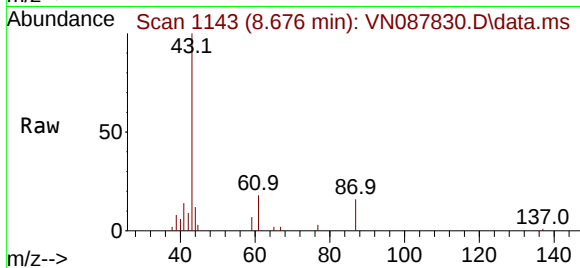
Tgt Ion: 43 Resp: 22571

Ion Ratio Lower Upper

43 100

61 17.3 18.8 28.2#

87 13.2 9.6 14.4



#45

1,2-Dichloropropane

Concen: 0.291 ug/l

RT: 9.723 min Scan# 1321

Delta R.T. 0.123 min

Lab File: VN087830.D

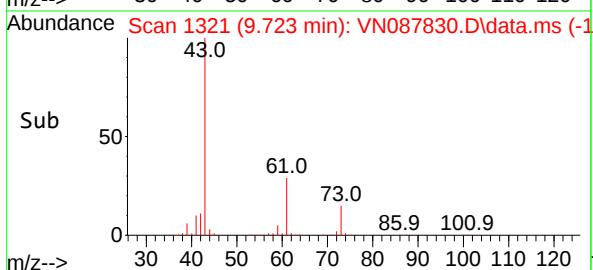
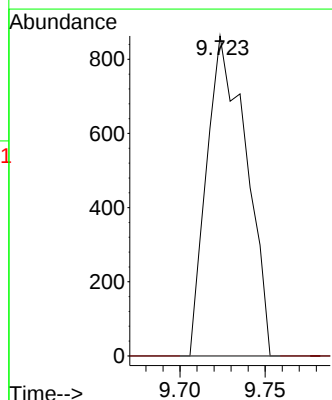
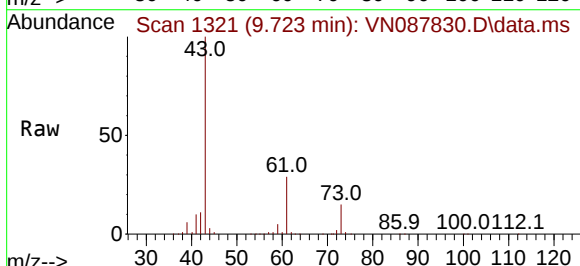
Acq: 15 Sep 2025 12:35

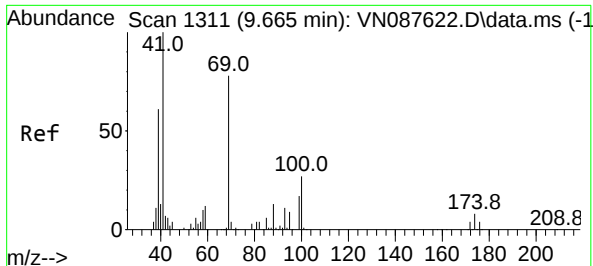
Tgt Ion: 63 Resp: 1390

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

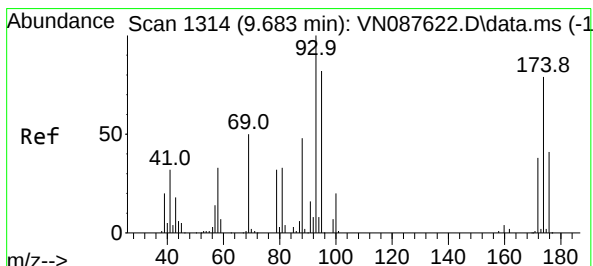
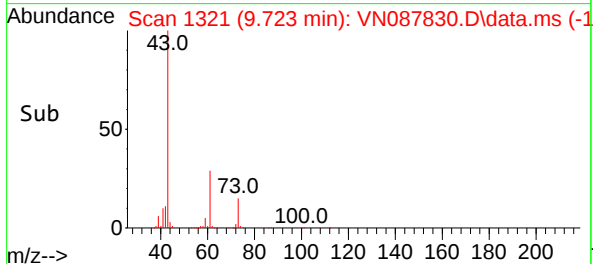
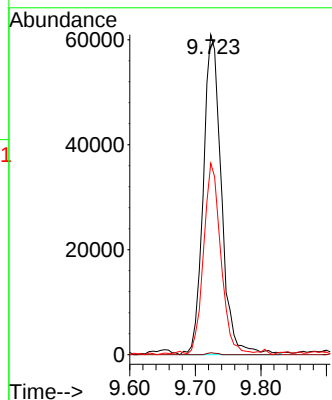
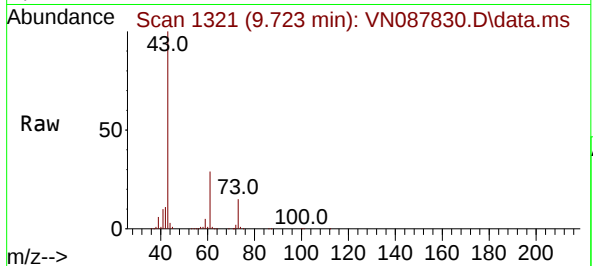




#48
Methyl methacrylate
Concen: 19.676 ug/l
RT: 9.723 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

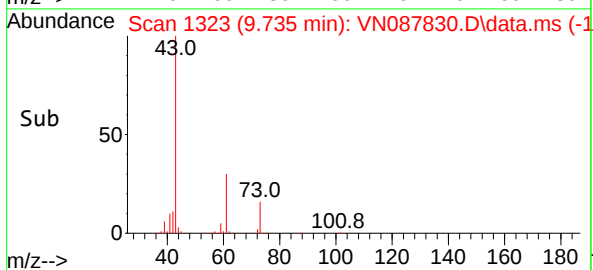
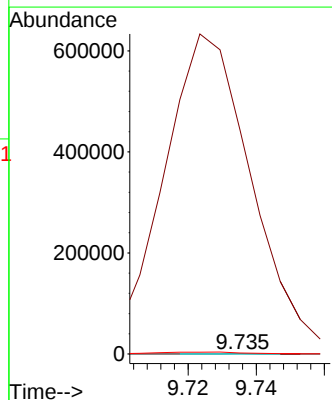
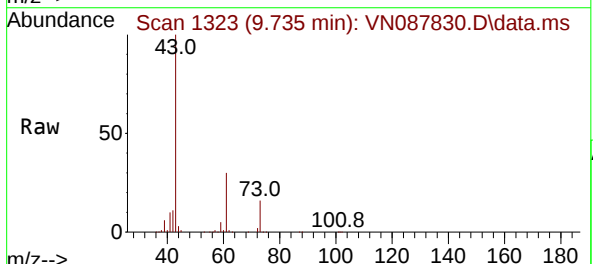
Instrument :
MSVOA_N
ClientSampleId :
WC-31

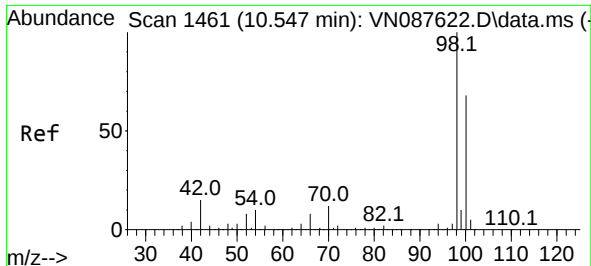
Tgt Ion: 41 Resp: 117499
Ion Ratio Lower Upper
41 100
69 0.3 62.7 94.1#
39 56.2 52.9 79.3



#49
1,4-Dioxane
Concen: 1.705 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.053 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion: 88 Resp: 132
Ion Ratio Lower Upper
88 100
43 888375.8 0.0 0.0#
58 5500.8 57.9 86.9#

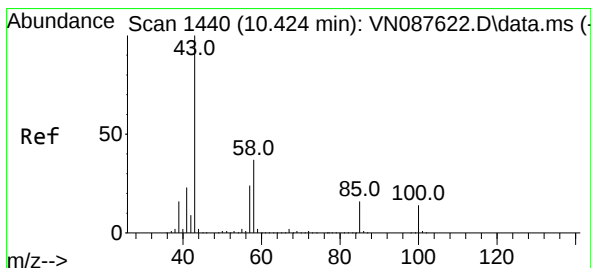
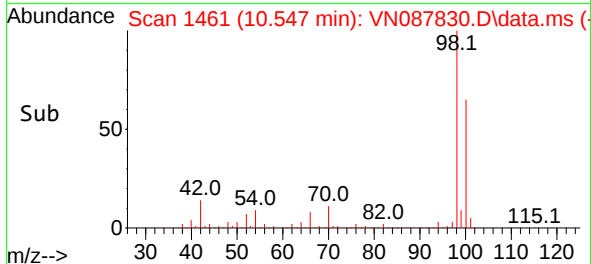
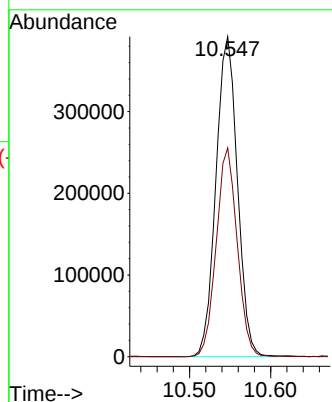
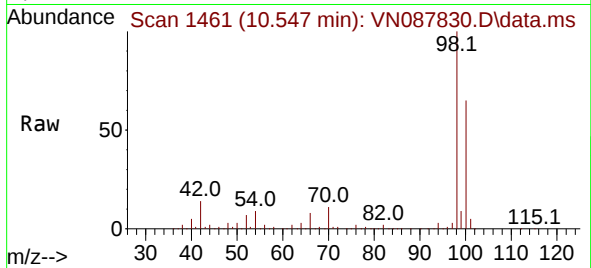




#50
Toluene-d8
Concen: 49.956 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

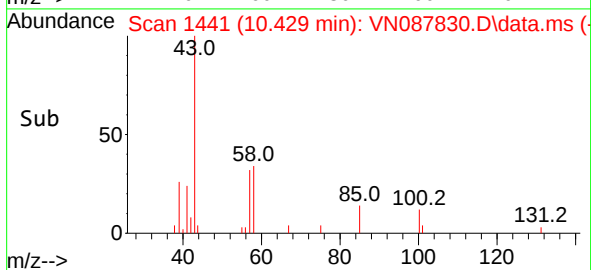
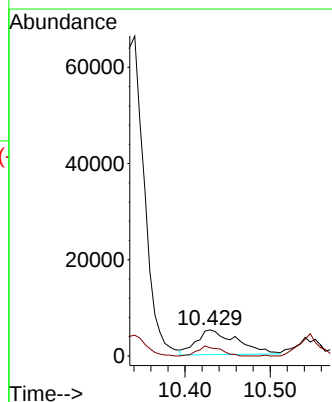
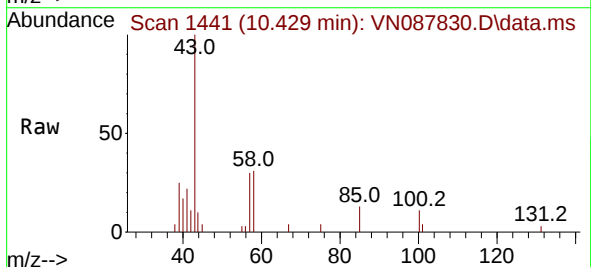
Instrument :
MSVOA_N
ClientSampleId :
WC-31

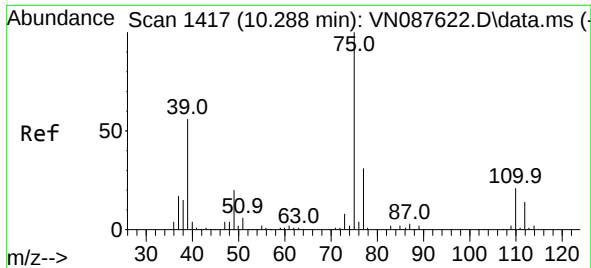
Tgt Ion: 98 Resp: 721226
Ion Ratio Lower Upper
98 100
100 63.7 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 2.244 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion: 43 Resp: 17093
Ion Ratio Lower Upper
43 100
58 22.6 29.6 44.4#

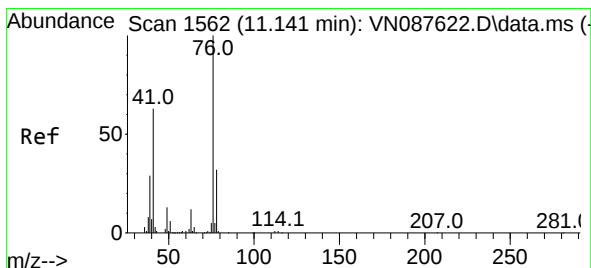
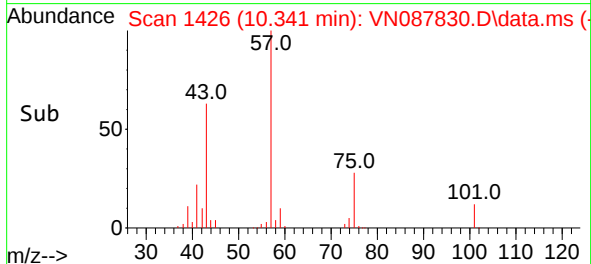
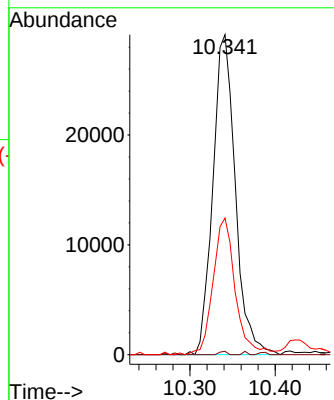
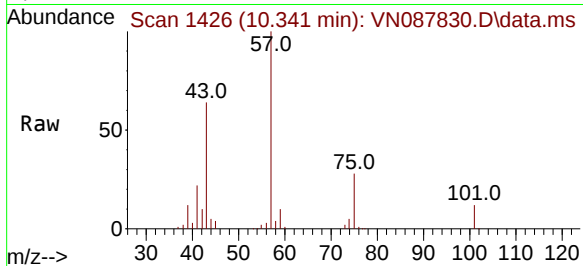




#54
cis-1,3-Dichloropropene
Concen: 7.116 ug/l
RT: 10.341 min Scan# 1417
Delta R.T. 0.053 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

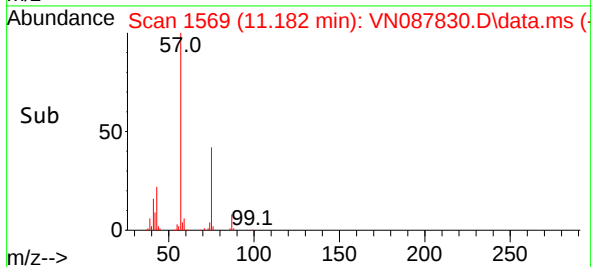
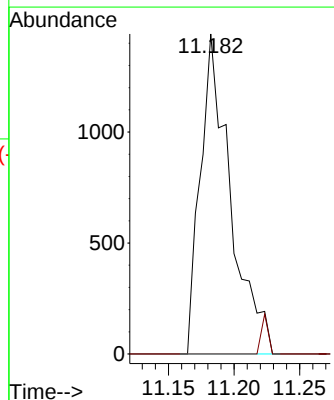
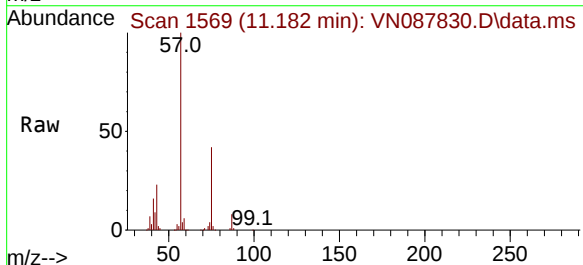
Instrument :
MSVOA_N
ClientSampleId :
WC-31

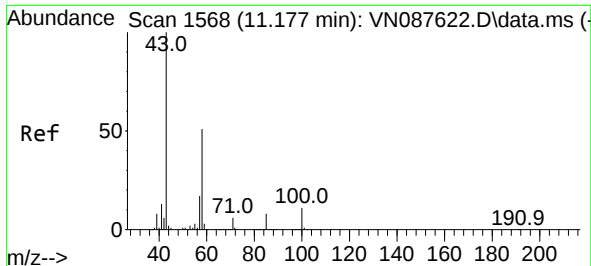
Tgt Ion: 75 Resp: 53367
Ion Ratio Lower Upper
75 100
77 1.1 24.6 37.0#
39 42.2 45.2 67.8#



#57
1,3-Dichloropropane
Concen: 0.299 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion: 76 Resp: 2303
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

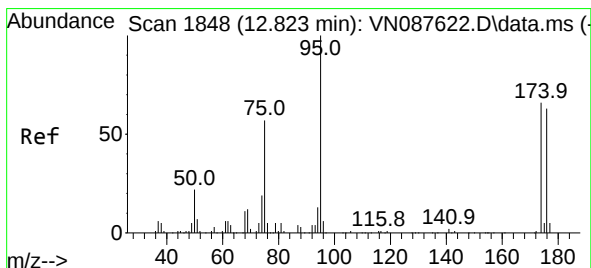
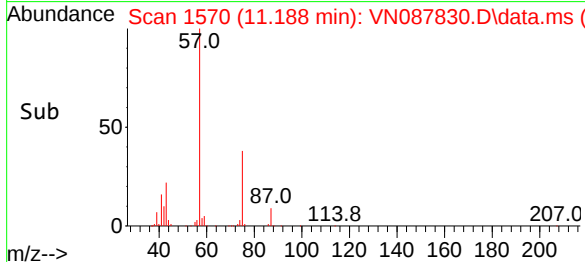
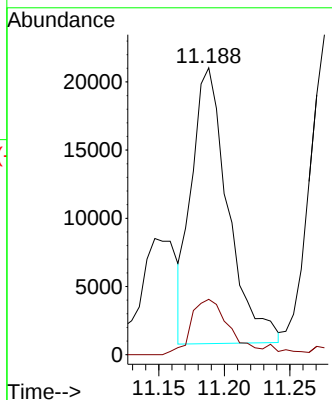
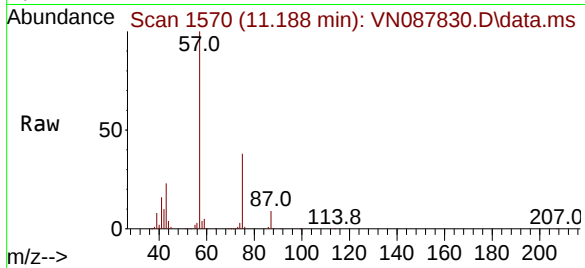




#59
2-Hexanone
Concen: 8.117 ug/l
RT: 11.188 min Scan# 1117
Delta R.T. 0.012 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

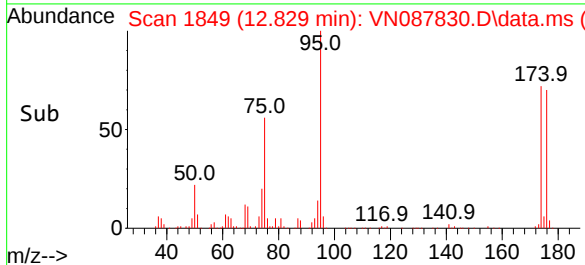
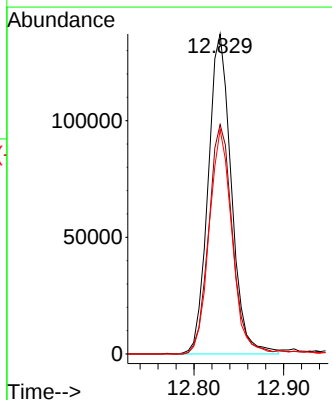
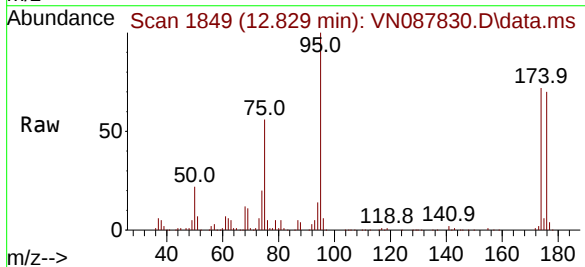
Instrument :
MSVOA_N
ClientSampleId :
WC-31

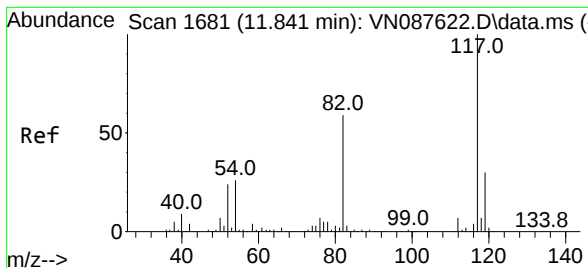
Tgt Ion: 43 Resp: 39076
Ion Ratio Lower Upper
43 100
58 20.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 47.991 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion: 95 Resp: 246401
Ion Ratio Lower Upper
95 100
174 74.1 0.0 138.4
176 68.8 0.0 132.6

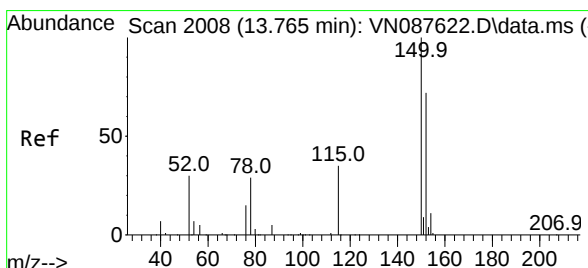
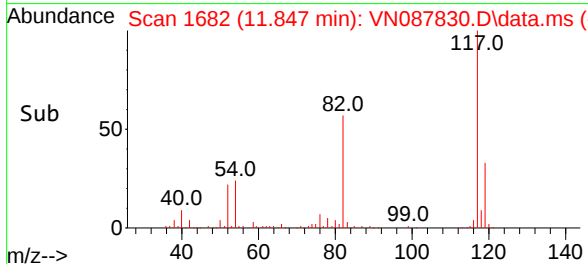
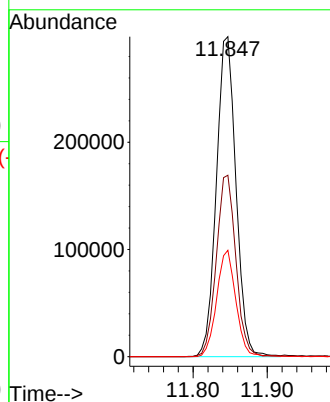
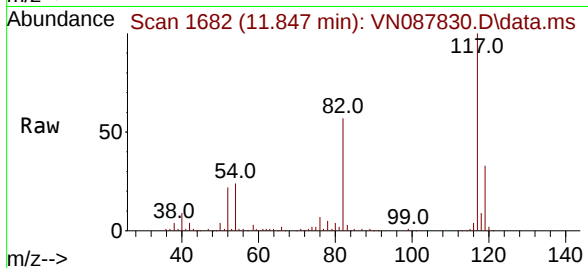




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

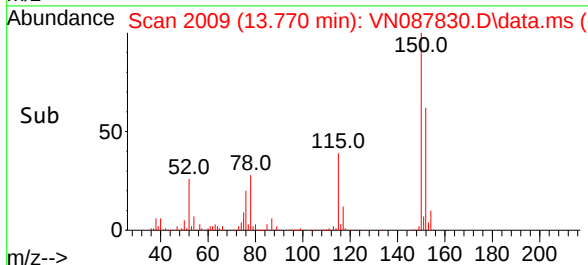
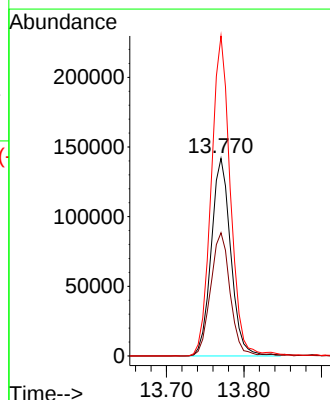
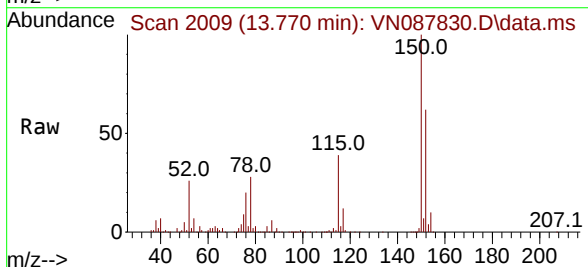
Instrument :
MSVOA_N
ClientSampleId :
WC-31

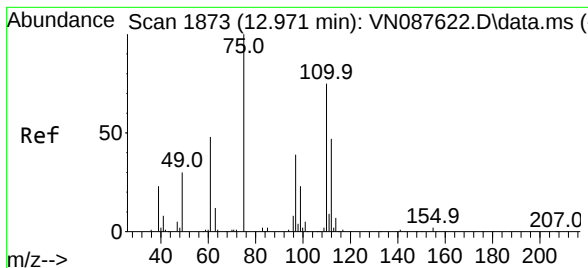
Tgt Ion:117 Resp: 549102
Ion Ratio Lower Upper
117 100
82 56.7 47.4 71.2
119 33.3 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087830.D
Acq: 15 Sep 2025 12:35

Tgt Ion:152 Resp: 248732
Ion Ratio Lower Upper
152 100
115 62.0 32.3 96.8
150 159.1 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 23.849 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087830.D

Acq: 15 Sep 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

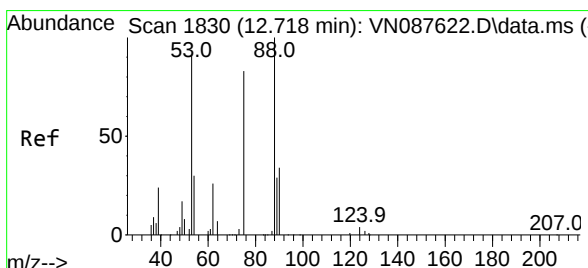
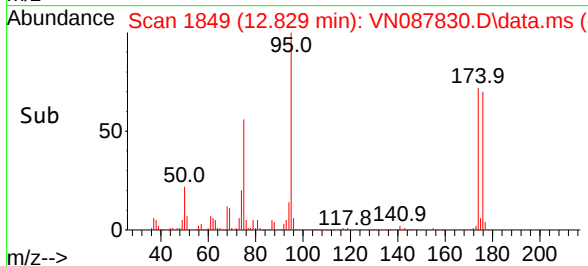
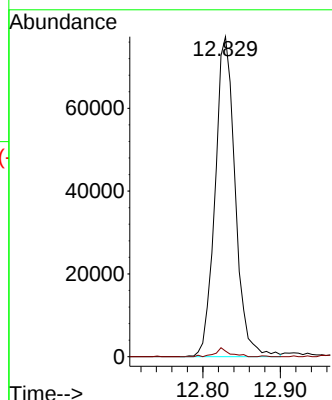
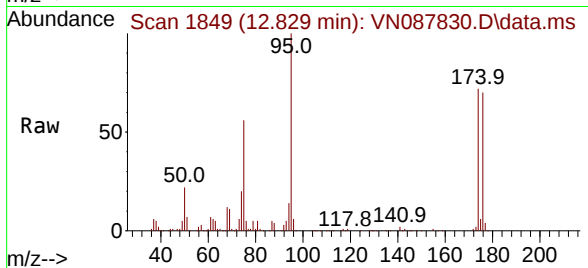
WC-31

Tgt Ion: 75 Resp: 139107

Ion Ratio Lower Upper

75 100

77 1.9 89.1 267.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.137 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087830.D

Acq: 15 Sep 2025 12:35

Tgt Ion: 75 Resp: 139107

Ion Ratio Lower Upper

75 100

53 0.1 101.8 152.6#

89 0.3 35.6 53.4#

