

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
 Data File : VN087090.D
 Acq On : 18 Jun 2025 16:52
 Operator : JC\MD
 Sample : Q2329-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP04-20250613

Quant Time: Jun 19 01:31:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

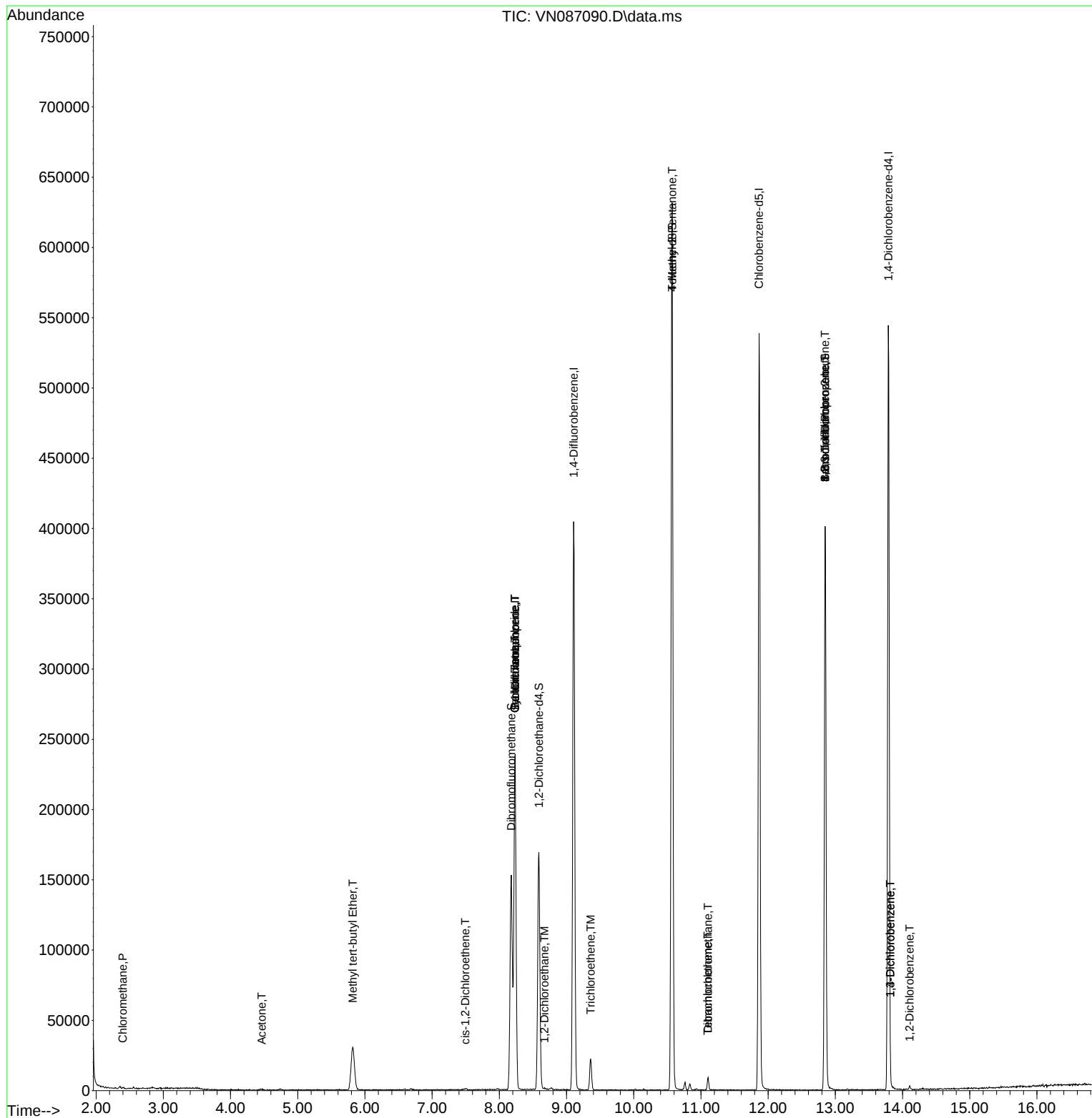
Internal Standards						
1) Pentafluorobenzene	8.236	168	187618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	379825	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	344732	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	162129	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	137942	54.913	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 109.820%		
35) Dibromofluoromethane	8.177	113	118477	52.635	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 105.260%		
50) Toluene-d8	10.571	98	468161	52.538	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.080%		
62) 4-Bromofluorobenzene	12.847	95	162968	49.226	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 98.460%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.395	50	970	0.402	ug/l #	80
16) Acetone	4.465	43	1483	1.113	ug/l	96
19) Methyl tert-butyl Ether	5.818	73	56006	7.407	ug/l	97
27) cis-1,2-Dichloroethene	7.495	96	784	0.282	ug/l	58
31) Cyclohexane	8.230	56	3380	0.830	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	14735	4.393	ug/l #	48
38) Carbon Tetrachloride	8.230	117	18458	5.605	ug/l #	17
42) 1,2-Dichloroethane	8.671	62	1203	0.362	ug/l #	72
44) Trichloroethene	9.359	130	9162	3.523	ug/l	99
51) 4-Methyl-2-Pentanone	10.571	43	1528	0.370	ug/l #	1
60) Dibromochloromethane	11.106	129	2050	0.763	ug/l #	11
64) Tetrachloroethene	11.100	164	2049	0.939	ug/l #	77
71) Bromoform	12.847	173	522	0.288	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	73869	19.168	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	73869	44.123	ug/l #	16
87) 1,3-Dichlorobenzene	13.818	146	1318	0.247	ug/l #	60
88) 1,4-Dichlorobenzene	13.818	146	1318	0.243	ug/l #	61
91) 1,2-Dichlorobenzene	14.106	146	1269	0.248	ug/l	92

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

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Quant Time: Jun 19 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

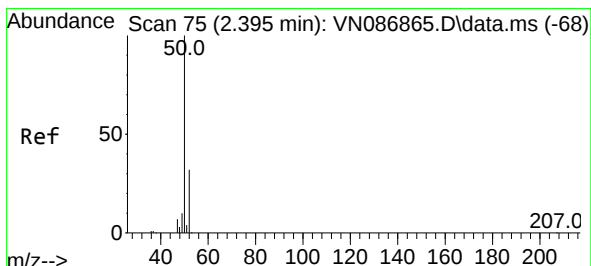
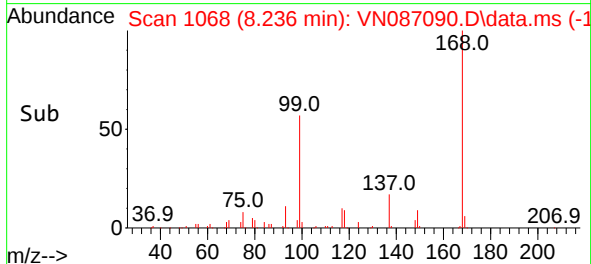
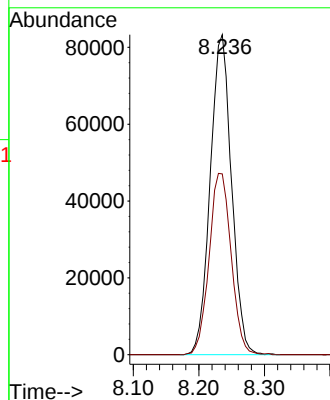
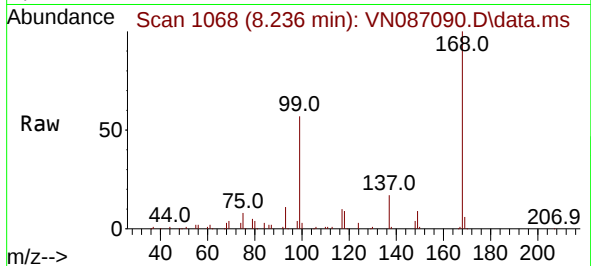




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

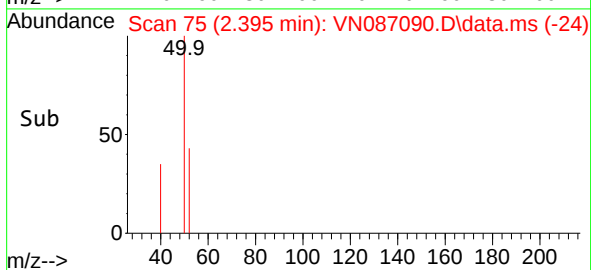
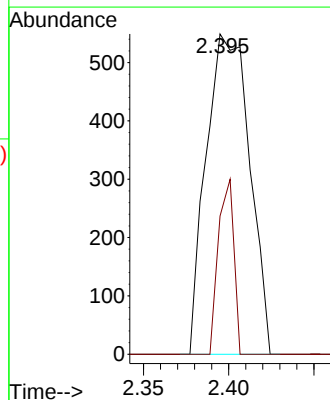
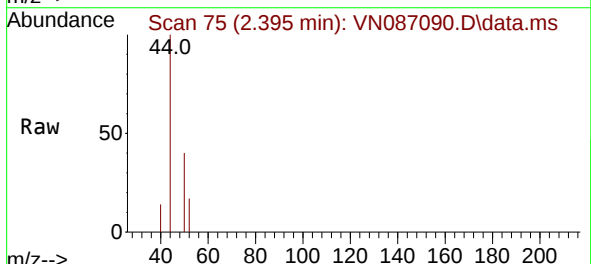
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

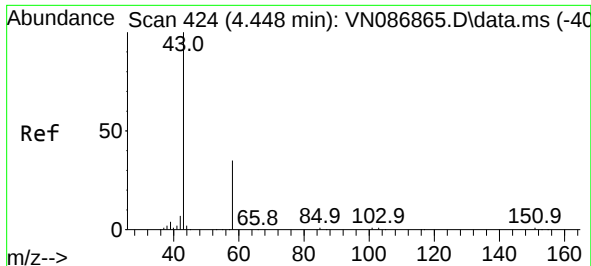
Tgt Ion:168 Resp: 187618
Ion Ratio Lower Upper
168 100
99 56.5 49.1 73.7



#3
Chloromethane
Concen: 0.402 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion: 50 Resp: 970
Ion Ratio Lower Upper
50 100
52 43.2 25.7 38.5#





#16

Acetone

Concen: 1.113 ug/l

RT: 4.465 min Scan# 41

Delta R.T. 0.018 min

Lab File: VN087090.D

Acq: 18 Jun 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

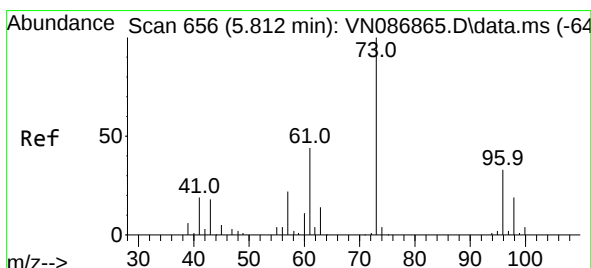
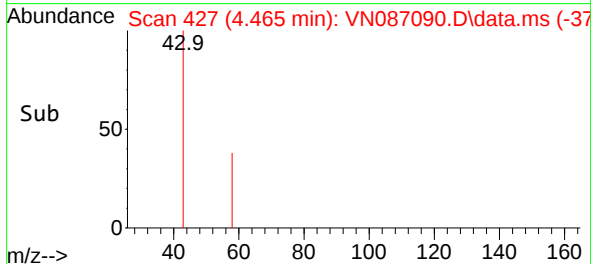
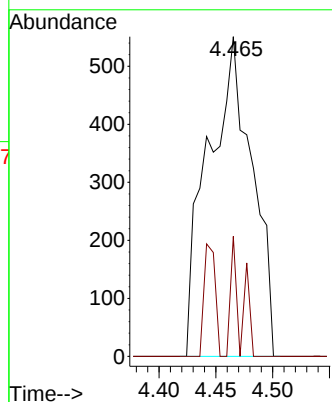
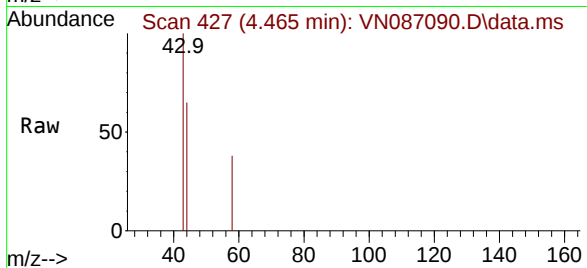
DUP04-20250613

Tgt Ion: 43 Resp: 1483

Ion Ratio Lower Upper

43 100

58 37.6 28.0 42.0



#19

Methyl tert-butyl Ether

Concen: 7.407 ug/l

RT: 5.818 min Scan# 657

Delta R.T. 0.006 min

Lab File: VN087090.D

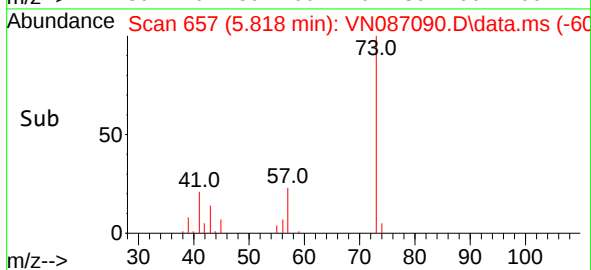
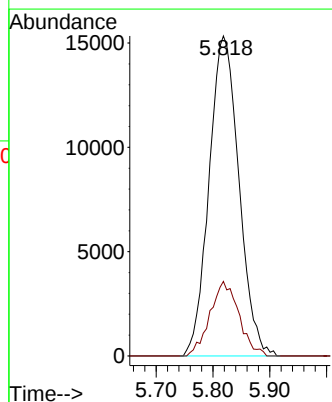
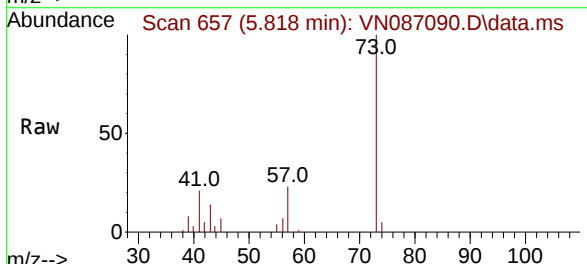
Acq: 18 Jun 2025 16:52

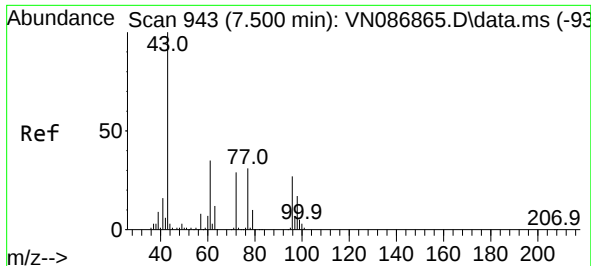
Tgt Ion: 73 Resp: 56006

Ion Ratio Lower Upper

73 100

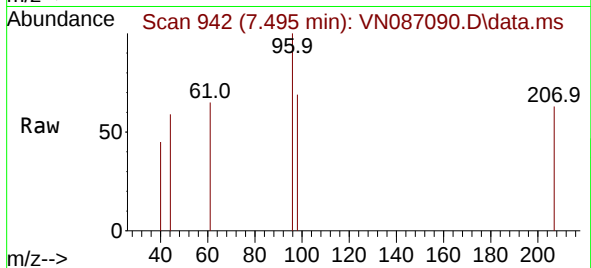
57 23.3 17.4 26.2



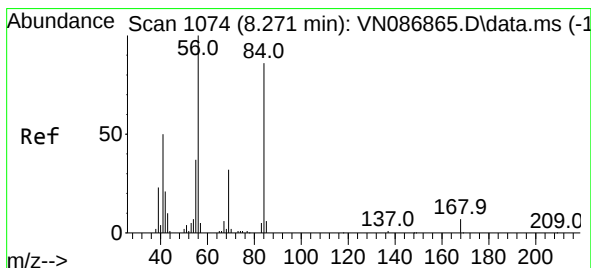
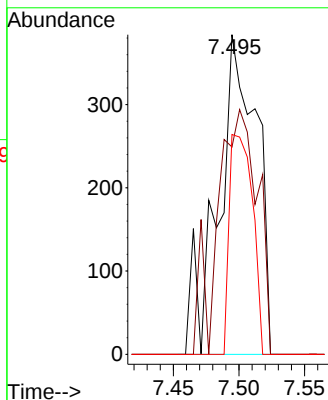
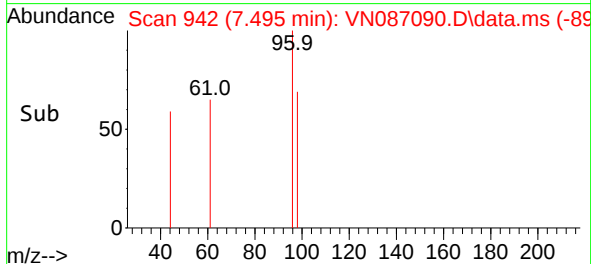


#27
 cis-1,2-Dichloroethene
 Concen: 0.282 ug/l
 RT: 7.495 min Scan# 94
 Delta R.T. -0.006 min
 Lab File: VN087090.D
 Acq: 18 Jun 2025 16:52

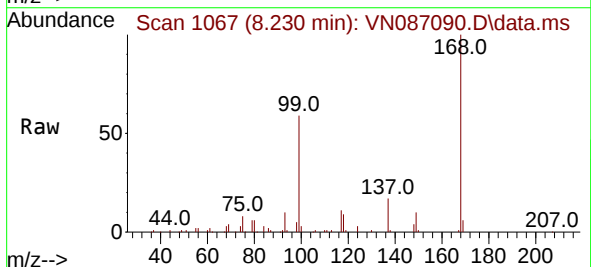
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP04-20250613



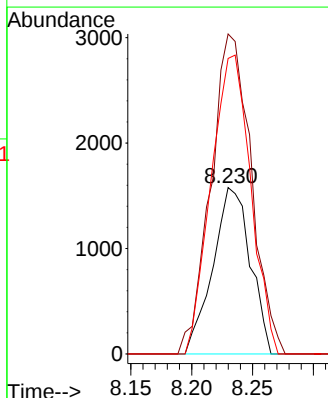
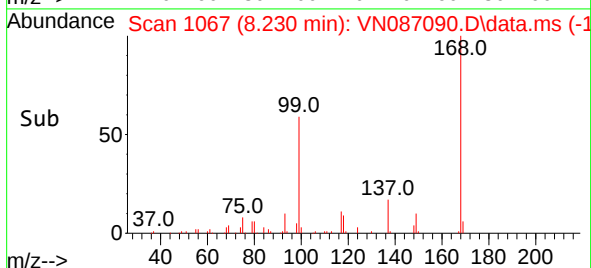
Tgt Ion: 96 Resp: 784
 Ion Ratio Lower Upper
 96 100
 61 80.4 0.0 278.0
 98 41.6 0.0 128.2

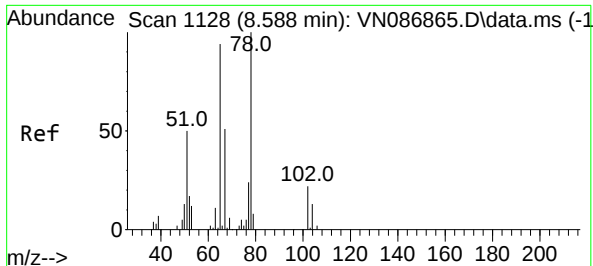


#31
 Cyclohexane
 Concen: 0.830 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.041 min
 Lab File: VN087090.D
 Acq: 18 Jun 2025 16:52



Tgt Ion: 56 Resp: 3380
 Ion Ratio Lower Upper
 56 100
 69 192.3 25.4 38.0#
 84 177.6 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 54.913 ug/l

RT: 8.589 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN087090.D

Acq: 18 Jun 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

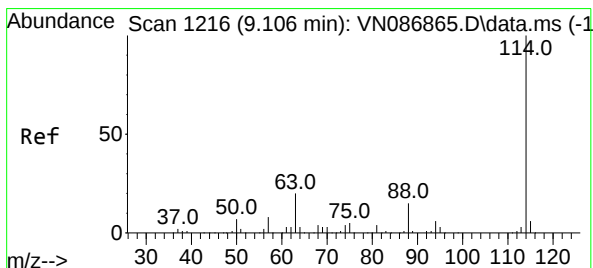
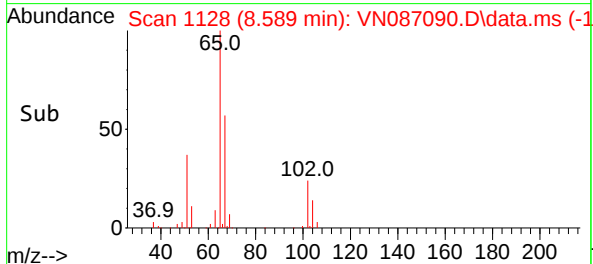
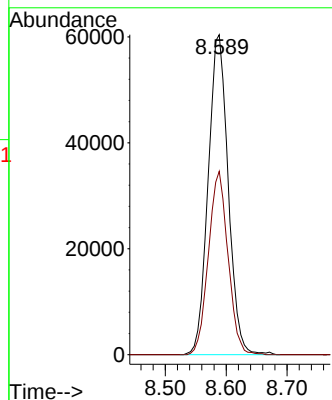
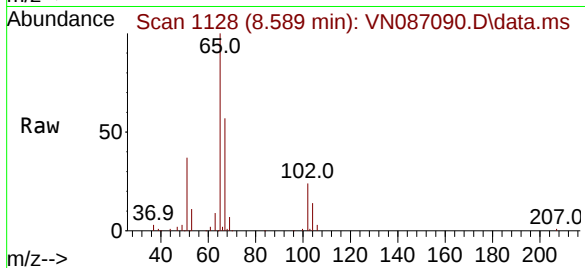
DUP04-20250613

Tgt Ion: 65 Resp: 137942

Ion Ratio Lower Upper

65 100

67 56.1 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN087090.D

Acq: 18 Jun 2025 16:52

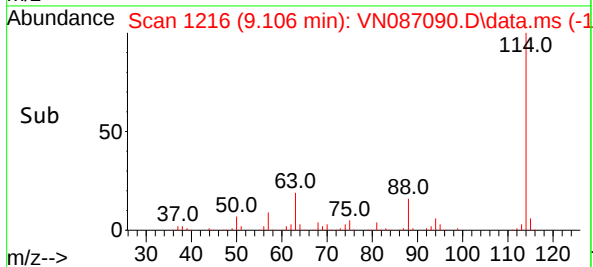
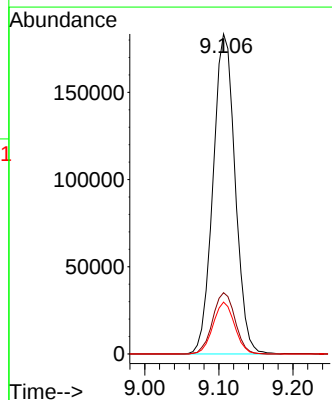
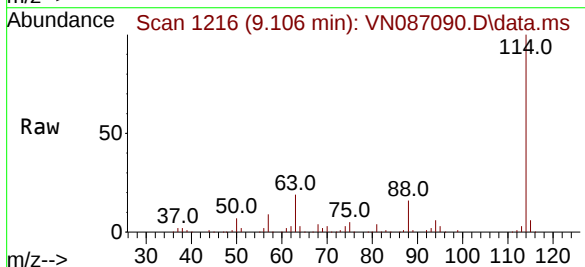
Tgt Ion: 114 Resp: 379825

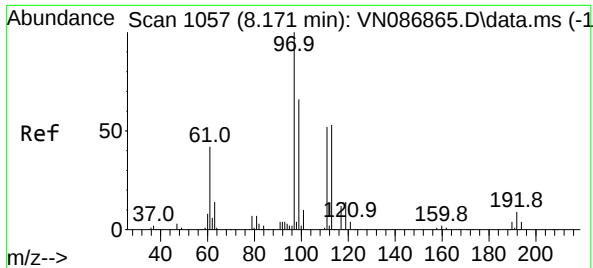
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 16.2 0.0 30.2

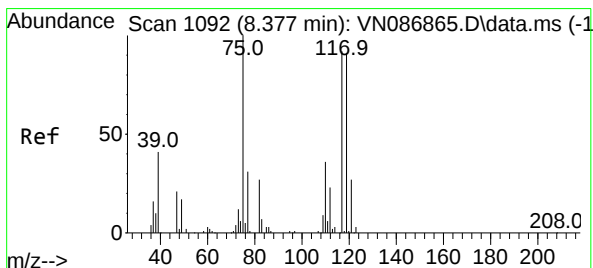
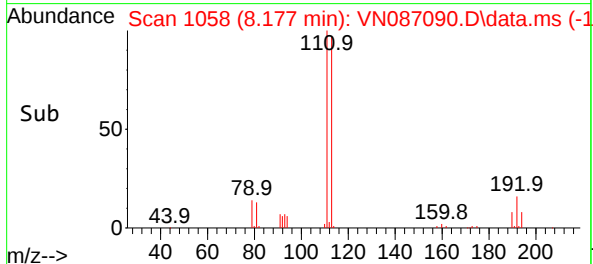
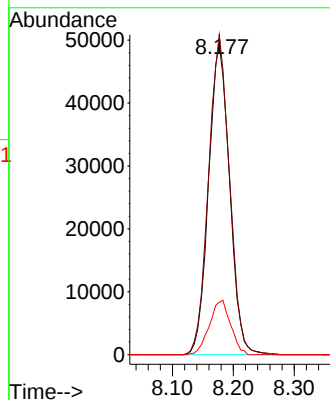
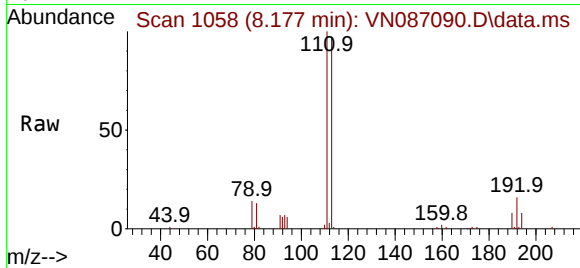




#35
Dibromofluoromethane
Concen: 52.635 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

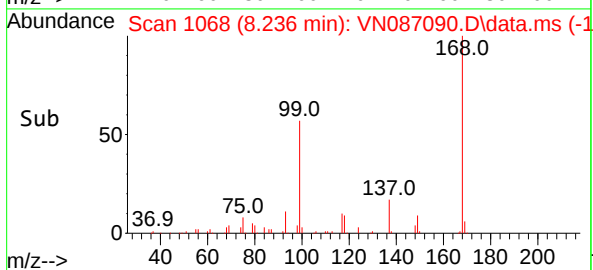
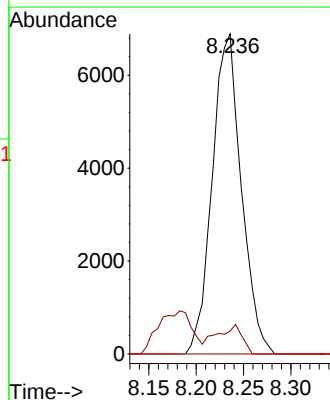
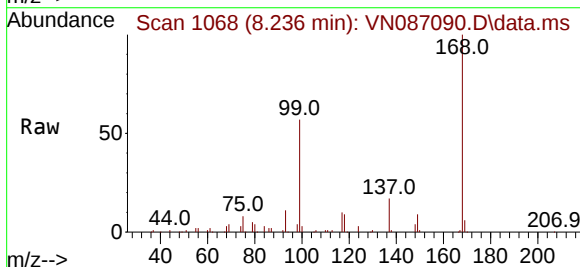
Instrument :
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DUP04-20250613

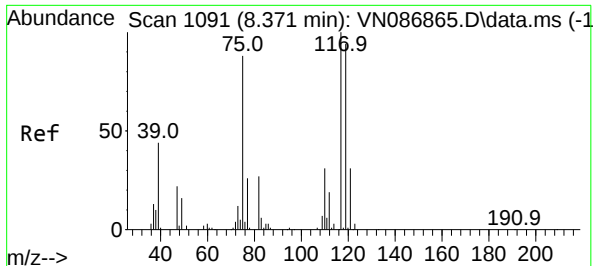
Tgt Ion:113 Resp: 118477
Ion Ratio Lower Upper
113 100
111 103.0 84.2 126.2
192 17.7 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.393 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion: 75 Resp: 14735
Ion Ratio Lower Upper
75 100
110 8.2 17.6 52.9#
77 0.0 25.3 37.9#

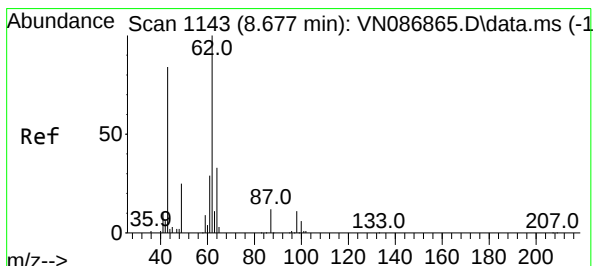
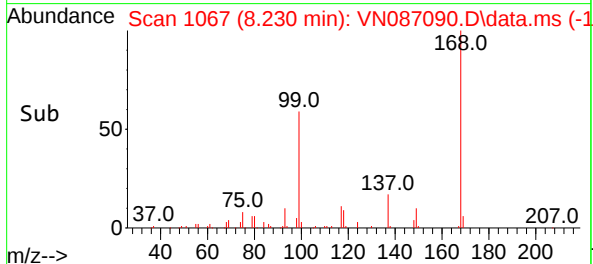
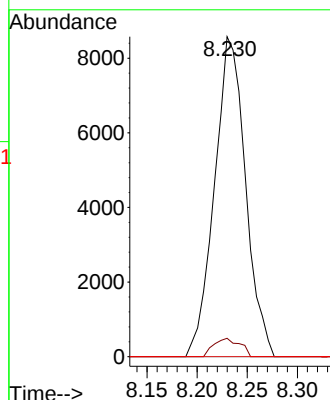
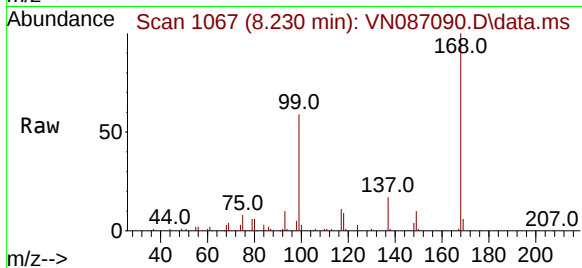




#38
Carbon Tetrachloride
Concen: 5.605 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

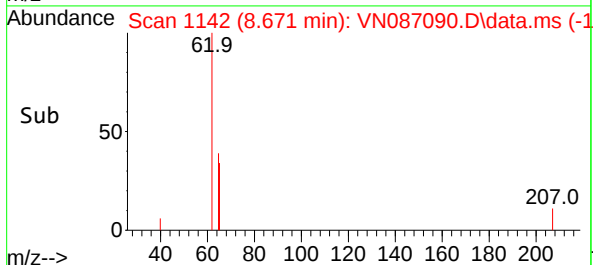
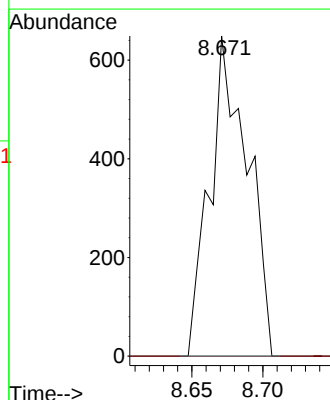
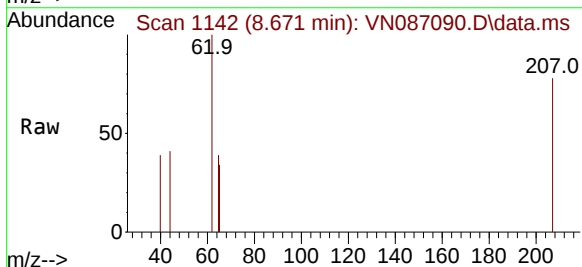
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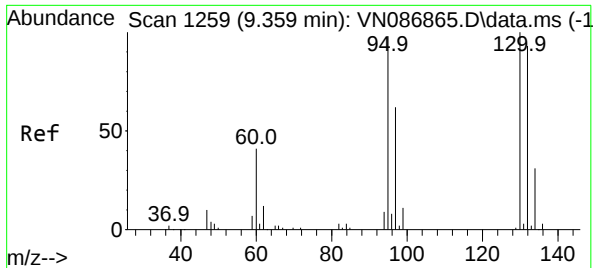
Tgt Ion:117 Resp: 18458
Ion Ratio Lower Upper
117 100
119 5.7 75.0 112.6#
121 0.0 24.9 37.3#



#42
1,2-Dichloroethane
Concen: 0.362 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion: 62 Resp: 1203
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.2

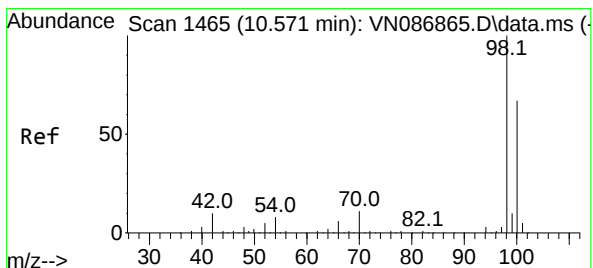
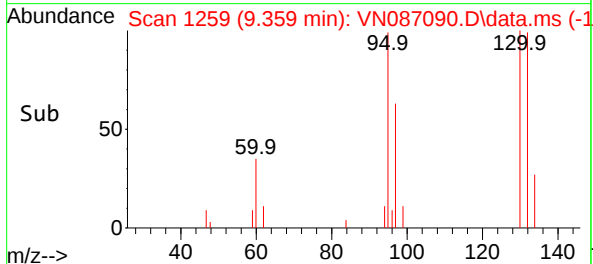
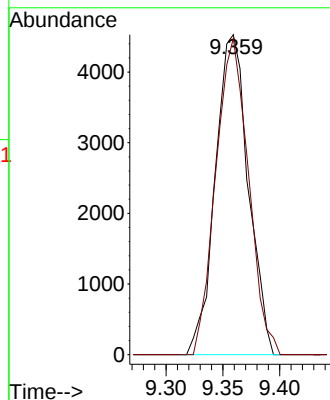
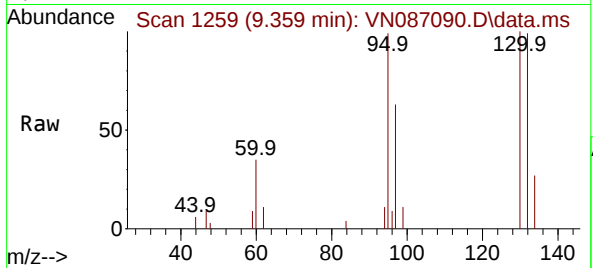




#44
 Trichloroethene
 Concen: 3.523 ug/l
 RT: 9.359 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN087090.D
 Acq: 18 Jun 2025 16:52

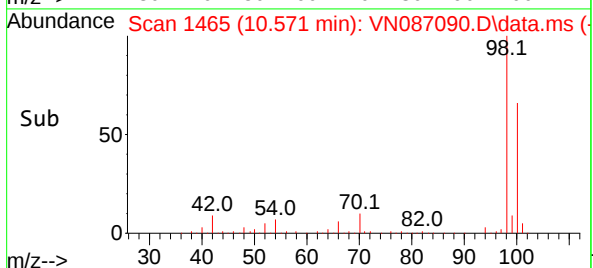
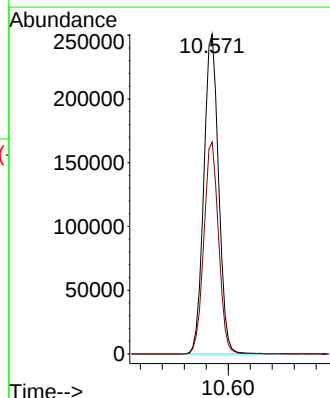
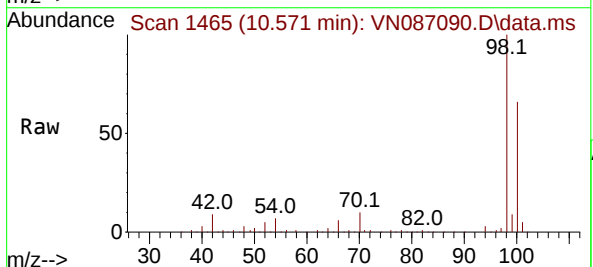
Instrument :
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 DUP04-20250613

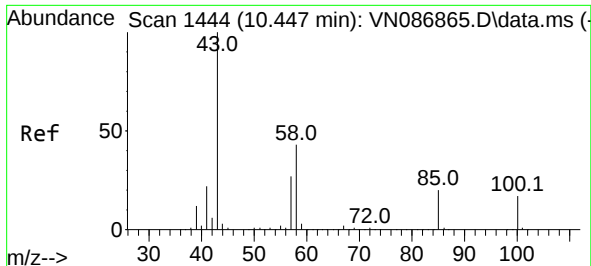
Tgt Ion:130 Resp: 9162
 Ion Ratio Lower Upper
 130 100
 95 98.9 0.0 196.2



#50
 Toluene-d8
 Concen: 52.538 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. 0.000 min
 Lab File: VN087090.D
 Acq: 18 Jun 2025 16:52

Tgt Ion: 98 Resp: 468161
 Ion Ratio Lower Upper
 98 100
 100 66.1 53.4 80.0





#51

4-Methyl-2-Pentanone

Concen: 0.370 ug/l

RT: 10.571 min Scan# 14

Delta R.T. 0.124 min

Lab File: VN087090.D

Acq: 18 Jun 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

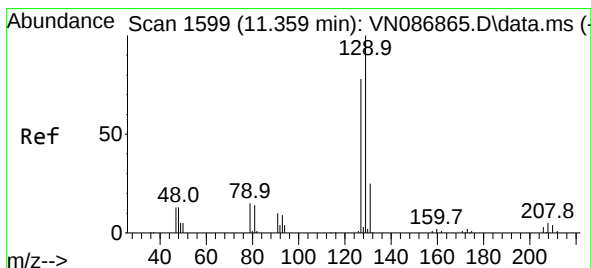
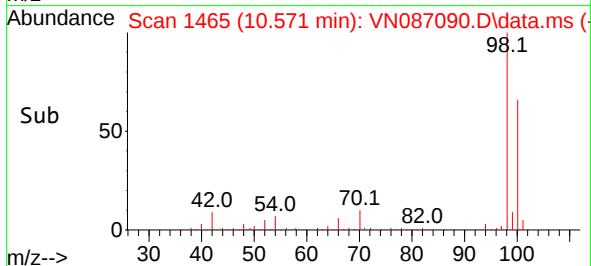
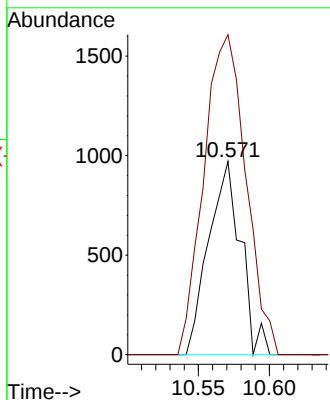
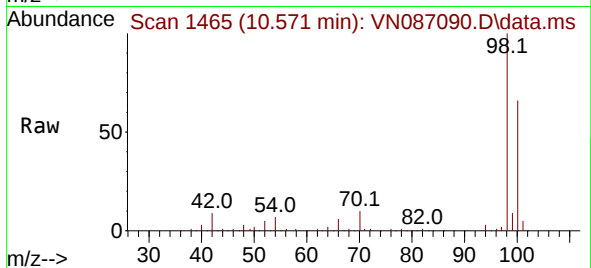
DUP04-20250613

Tgt Ion: 43 Resp: 1528

Ion Ratio Lower Upper

43 100

58 216.8 34.2 51.4#



#60

Dibromochloromethane

Concen: 0.763 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. -0.253 min

Lab File: VN087090.D

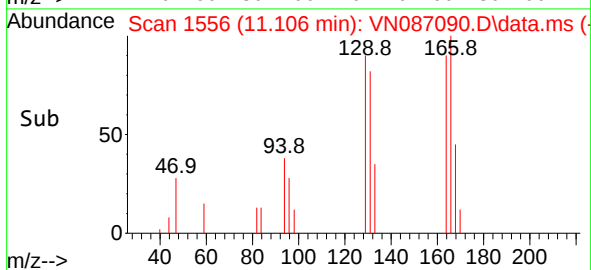
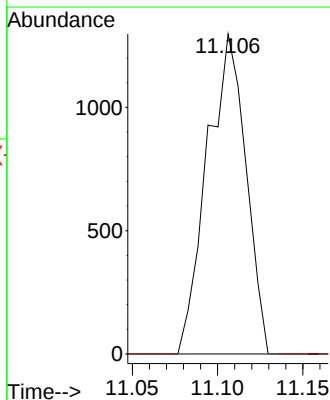
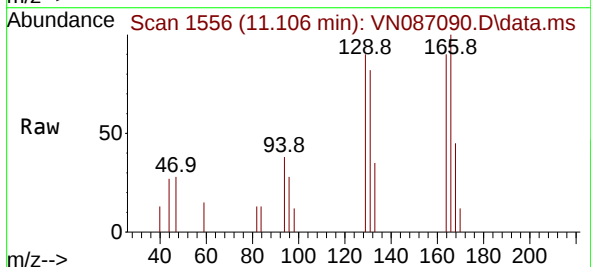
Acq: 18 Jun 2025 16:52

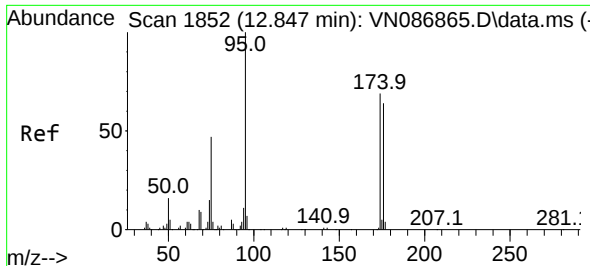
Tgt Ion: 129 Resp: 2050

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#

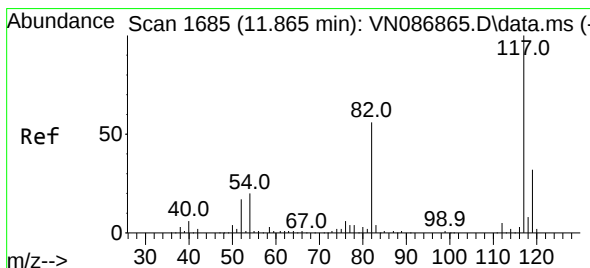
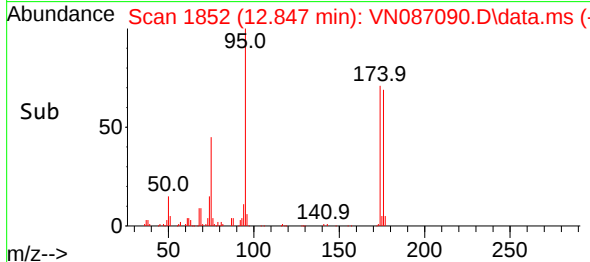
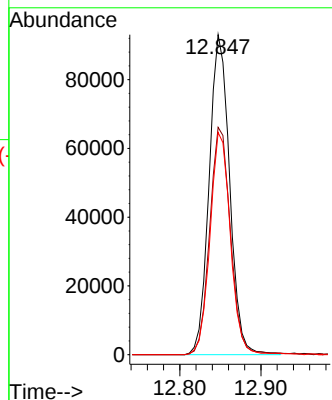
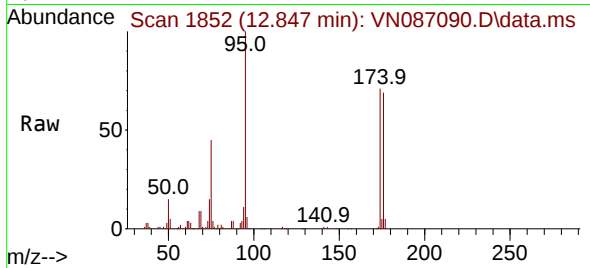




#62
4-Bromofluorobenzene
Concen: 49.226 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

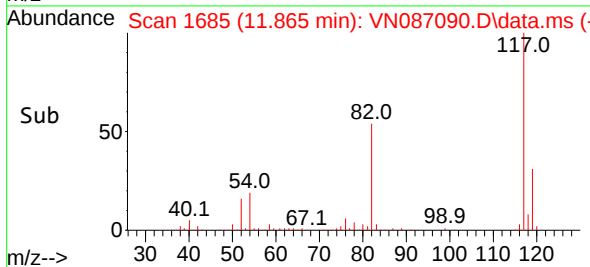
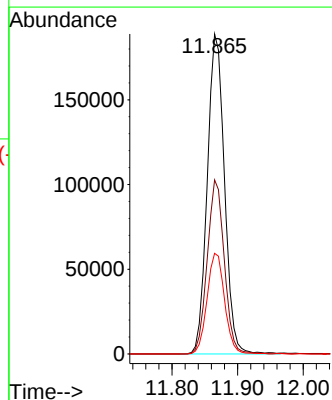
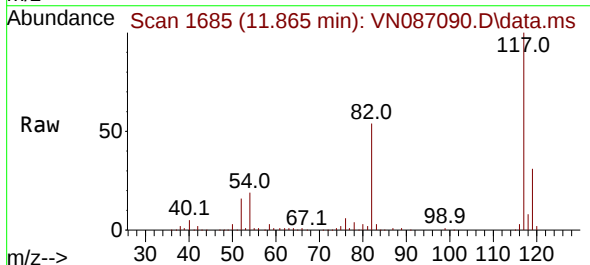
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

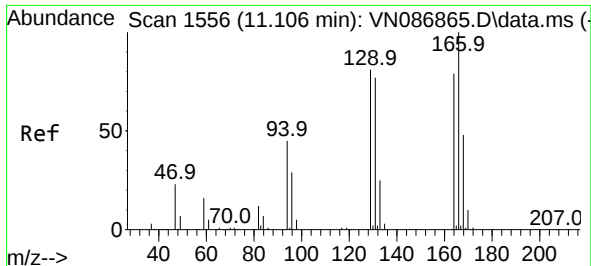
Tgt Ion: 95 Resp: 162968
Ion Ratio Lower Upper
95 100
174 72.7 0.0 141.8
176 69.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion: 117 Resp: 344732
Ion Ratio Lower Upper
117 100
82 54.4 44.6 67.0
119 31.5 25.5 38.3

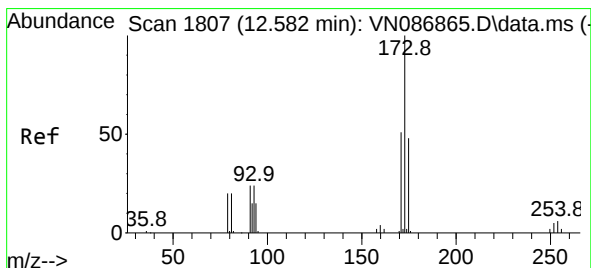
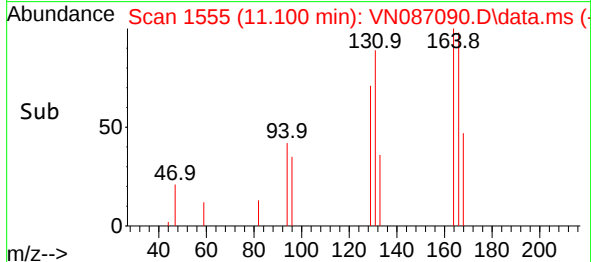
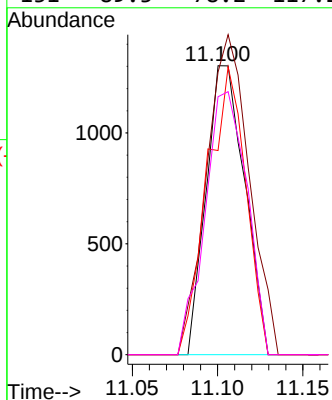
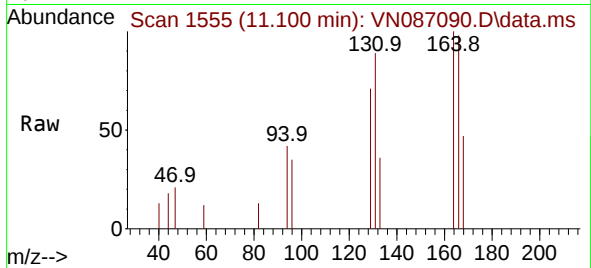




#64
Tetrachloroethene
Concen: 0.939 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

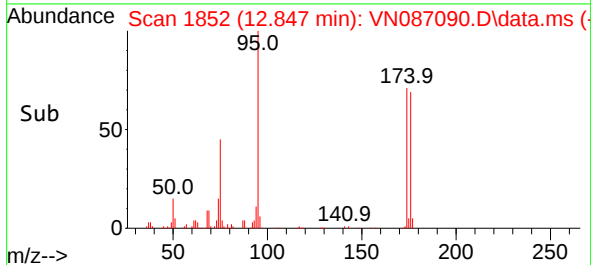
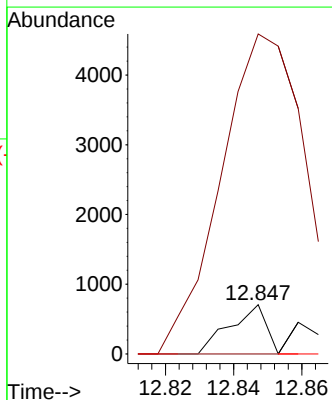
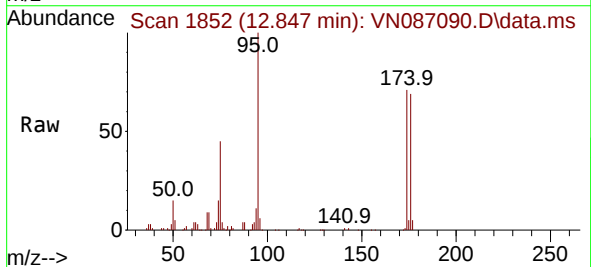
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

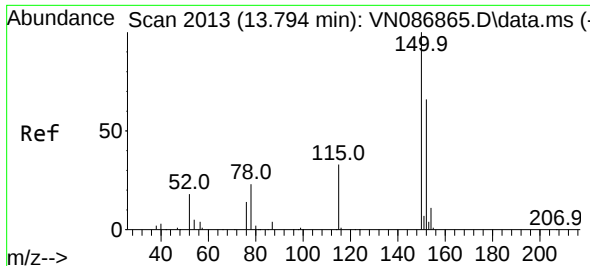
Tgt Ion:164 Resp: 2049
Ion Ratio Lower Upper
164 100
166 97.8 101.8 152.8#
129 70.7 83.0 124.4#
131 89.3 78.2 117.2



#71
Bromoform
Concen: 0.288 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion:173 Resp: 522
Ion Ratio Lower Upper
173 100
175 1366.9 24.1 72.4#
254 0.0 0.0 0.0

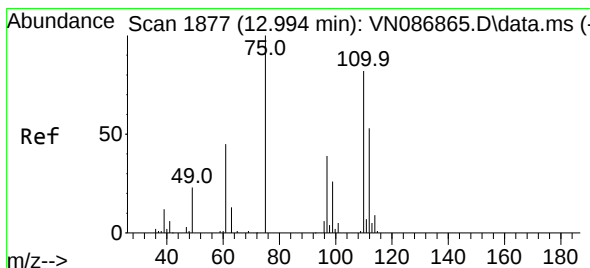
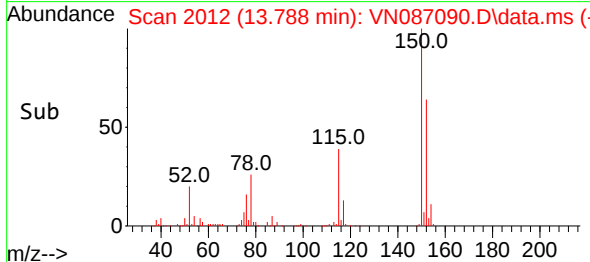
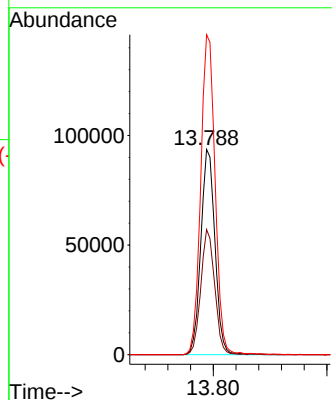
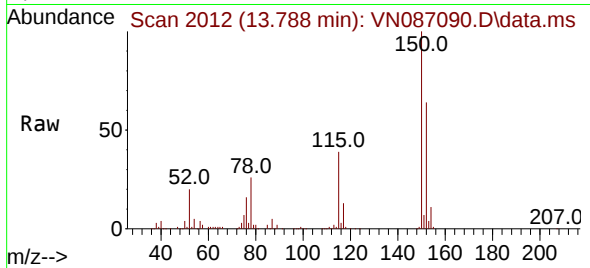




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2013
 Delta R.T. -0.006 min
 Lab File: VN087090.D
 Acq: 18 Jun 2025 16:52

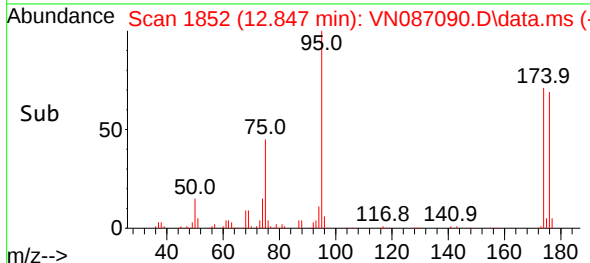
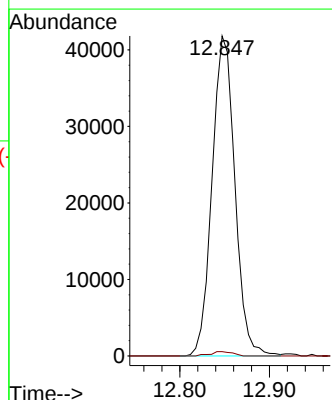
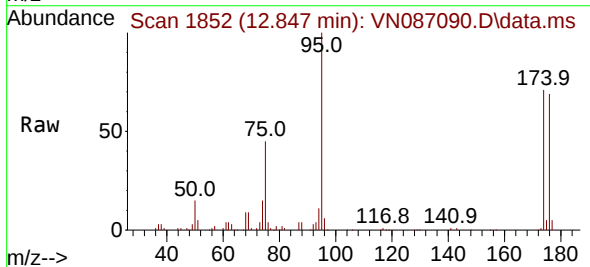
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP04-20250613

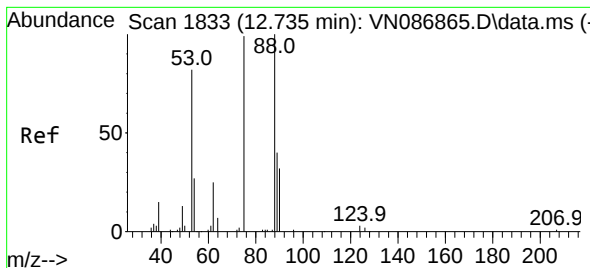
Tgt Ion:152 Resp: 162129
 Ion Ratio Lower Upper
 152 100
 115 59.9 30.1 90.5
 150 158.4 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 19.168 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087090.D
 Acq: 18 Jun 2025 16:52

Tgt Ion: 75 Resp: 73869
 Ion Ratio Lower Upper
 75 100
 77 1.3 79.3 237.9#

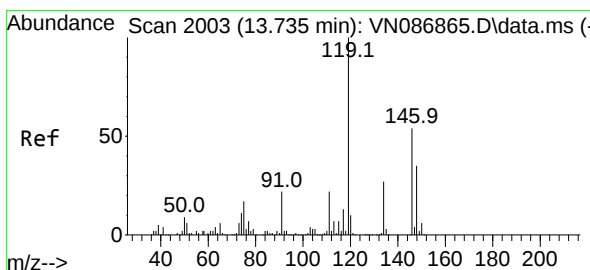
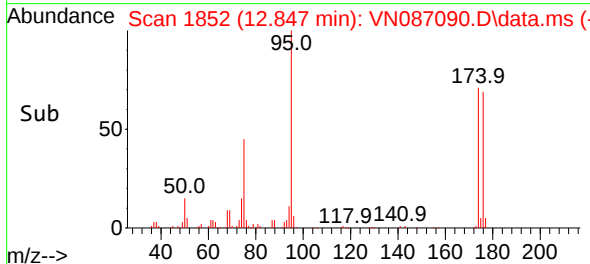
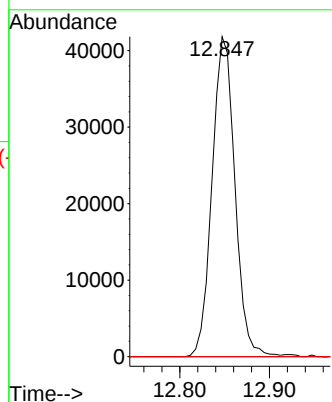
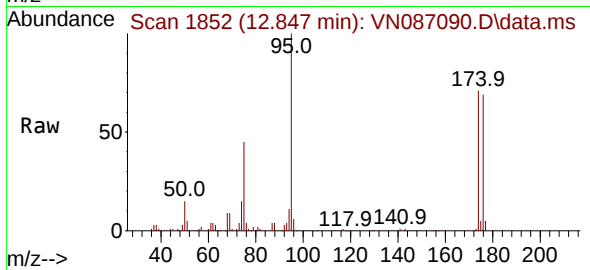




#81
trans-1,4-Dichloro-2-butene
Concen: 44.123 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

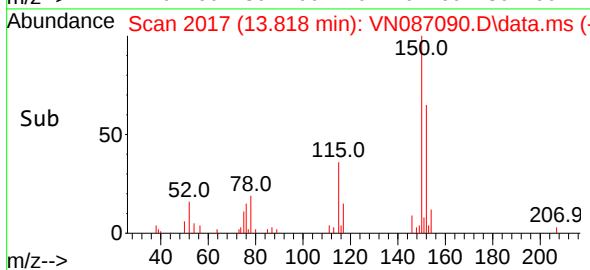
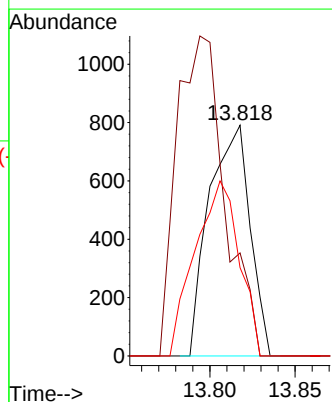
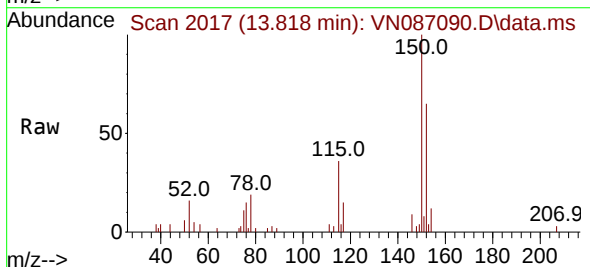
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

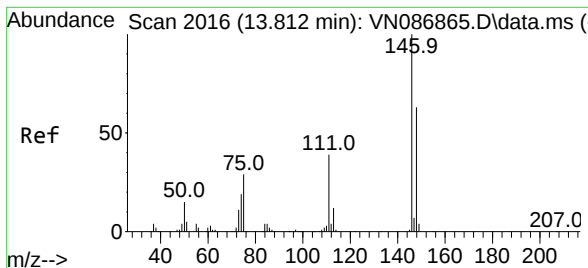
Tgt Ion: 75 Resp: 73869
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#87
1,3-Dichlorobenzene
Concen: 0.247 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. 0.082 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion:146 Resp: 1318
Ion Ratio Lower Upper
146 100
111 0.0 20.9 62.8#
148 82.0 32.0 96.2





#88

1,4-Dichlorobenzene

Concen: 0.243 ug/l

RT: 13.818 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN087090.D

Acq: 18 Jun 2025 16:52

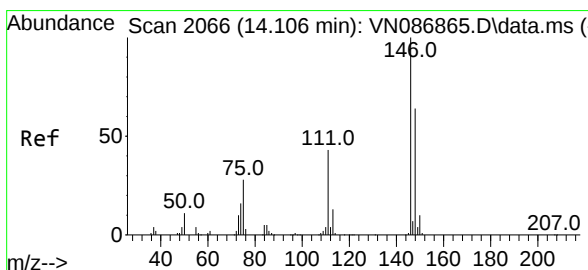
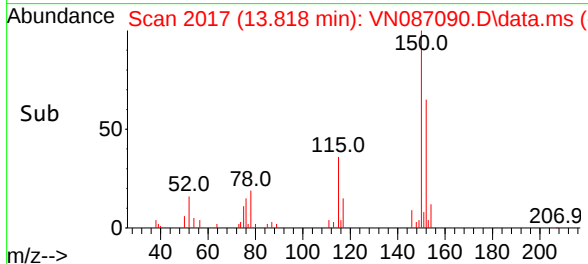
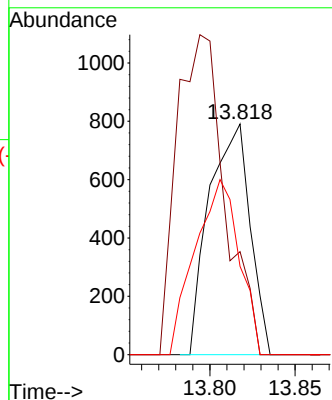
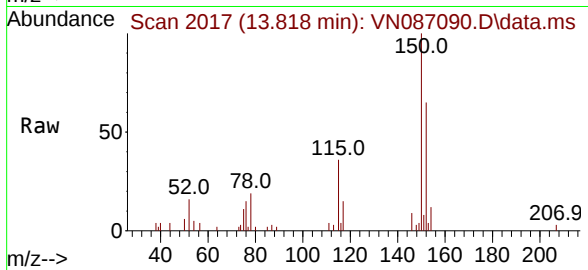
Instrument :

MSVOA_N

ClientSampleId :

DUP04-20250613

Tgt Ion:146	Resp:	1318
Ion Ratio	Lower	Upper
146	100	
111	0.0	19.9 59.7#
148	82.0	31.8 95.4



#91

1,2-Dichlorobenzene

Concen: 0.248 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN087090.D

Acq: 18 Jun 2025 16:52

Tgt Ion:146	Resp:	1269
Ion Ratio	Lower	Upper
146	100	
111	35.9	21.6 64.6
148	58.9	31.7 95.1

