

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087036.D
 Acq On : 16 Jun 2025 16:58
 Operator : JC\MD
 Sample : Q2299-18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT190D1-20250611

Quant Time: Jun 17 07:26:18 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	8.230	168	278563	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	553254	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	491886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	231060	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	194575	52.170	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.340%			
35) Dibromofluoromethane	8.177	113	166785	50.869	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.740%			
50) Toluene-d8	10.565	98	677454	52.194	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.380%			
62) 4-Bromofluorobenzene	12.847	95	235565	48.849	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.700%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	4.406	101	10209	3.362	ug/l	100
12) 1,1-Dichloroethene	4.377	96	4911	1.584	ug/l #	78
16) Acetone	4.465	43	1827	0.924	ug/l	99
24) 1,1-Dichloroethane	6.589	63	2886	0.463	ug/l #	81
27) cis-1,2-Dichloroethene	7.494	96	7455	1.807	ug/l	83
30) Chloroform	7.983	83	6026	0.967	ug/l	89
31) Cyclohexane	8.230	56	5036	0.833	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	21008	4.300	ug/l #	47
38) Carbon Tetrachloride	8.371	117	7168	1.494	ug/l	87
39) Methylcyclohexane	9.359	83	8639	1.291	ug/l #	1
42) 1,2-Dichloroethane	8.677	62	1016	0.210	ug/l #	72
44) Trichloroethene	9.359	130	765405	202.049	ug/l	99
45) 1,2-Dichloropropane	9.353	63	1785	0.459	ug/l #	1
51) 4-Methyl-2-Pentanone	10.571	43	2321	0.386	ug/l #	1
55) 1,1,2-Trichloroethane	11.018	97	5472	1.457	ug/l #	89
60) Dibromochloromethane	11.112	129	1989	0.508	ug/l #	11
64) Tetrachloroethene	11.106	164	2130	0.684	ug/l #	84
76) 1,2,3-Trichloropropane	12.847	75	109844	19.999	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	109844	46.038	ug/l #	16

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

Quant Time: Jun 17 07:26:18 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

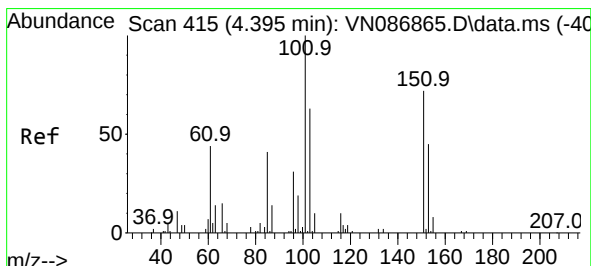
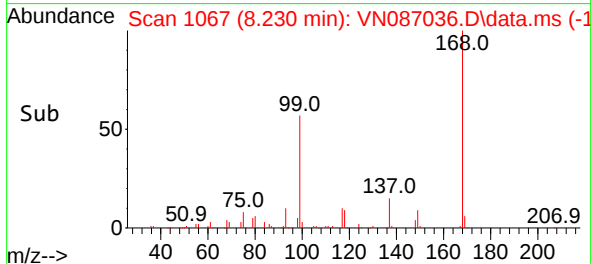
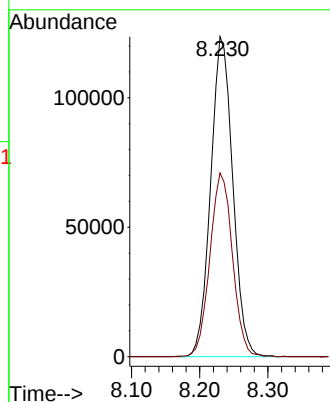
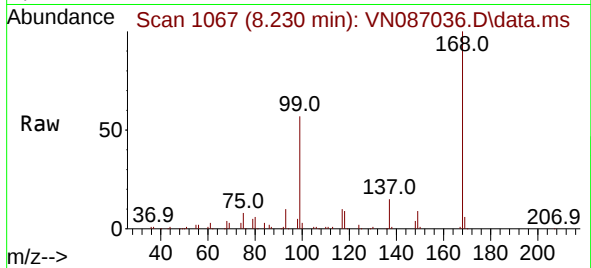




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

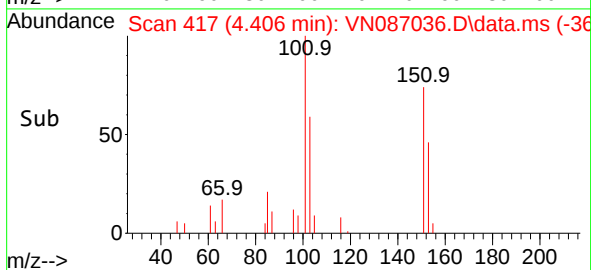
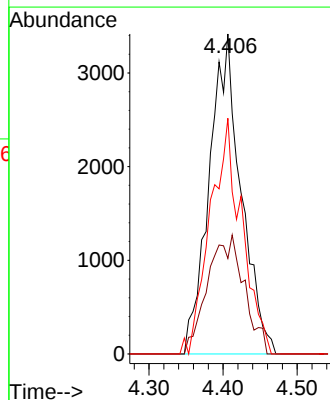
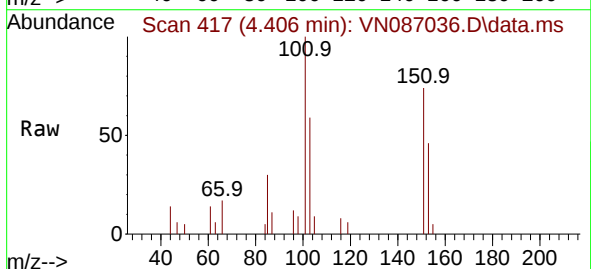
Instrument :
MSVOA_N
ClientSampleId :
TT190D1-20250611

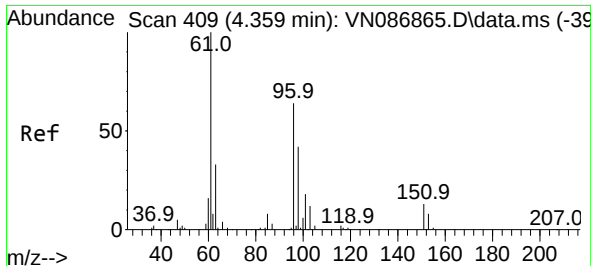
Tgt Ion:168 Resp: 278563
Ion Ratio Lower Upper
168 100
99 57.5 49.1 73.7



#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.362 ug/l
RT: 4.406 min Scan# 417
Delta R.T. 0.012 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

Tgt Ion:101 Resp: 10209
Ion Ratio Lower Upper
101 100
85 42.5 33.8 50.8
151 73.0 58.7 88.1

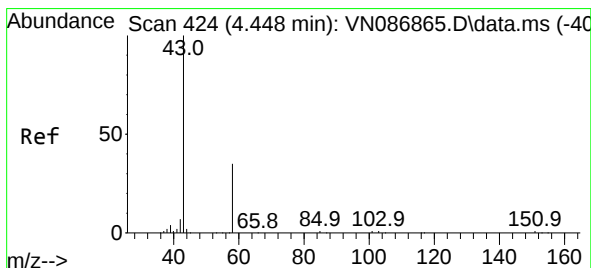
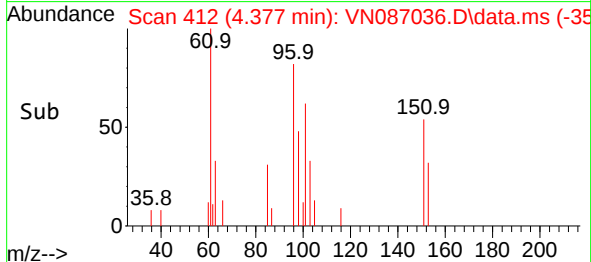
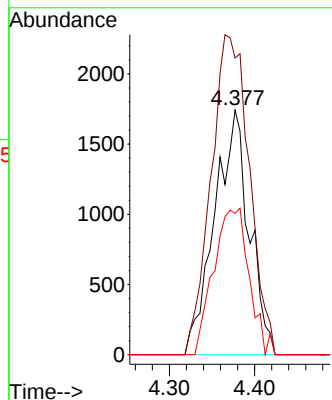
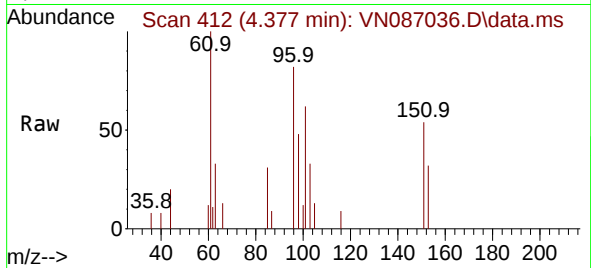




#12
 1,1-Dichloroethene
 Concen: 1.584 ug/l
 RT: 4.377 min Scan# 412
 Delta R.T. 0.018 min
 Lab File: VN087036.D
 Acq: 16 Jun 2025 16:58

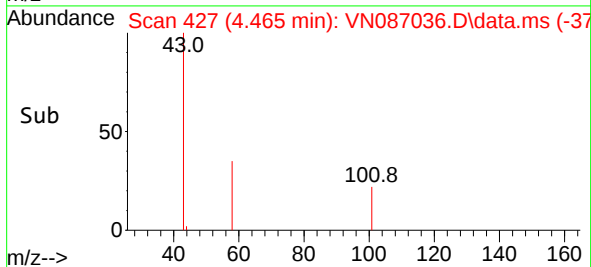
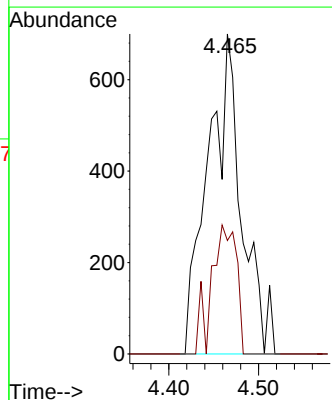
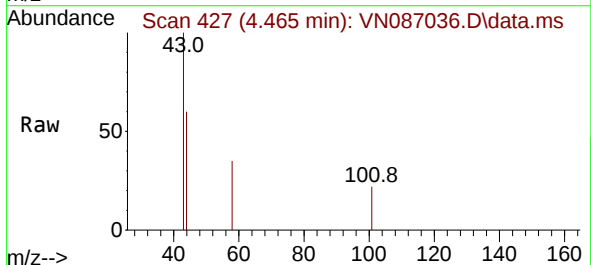
Instrument :
 MSVOA_N
 ClientSampleId :
 TT190D1-20250611

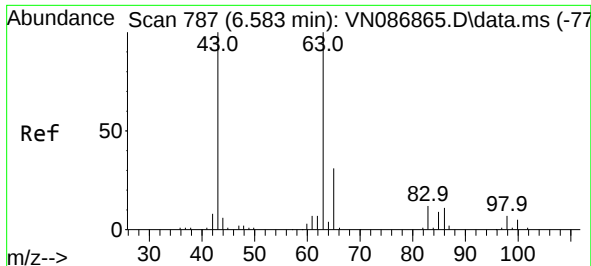
Tgt Ion: 96 Resp: 4911
 Ion Ratio Lower Upper
 96 100
 61 121.4 125.8 188.6#
 98 57.8 52.5 78.7



#16
 Acetone
 Concen: 0.924 ug/l
 RT: 4.465 min Scan# 427
 Delta R.T. 0.018 min
 Lab File: VN087036.D
 Acq: 16 Jun 2025 16:58

Tgt Ion: 43 Resp: 1827
 Ion Ratio Lower Upper
 43 100
 58 35.4 28.0 42.0

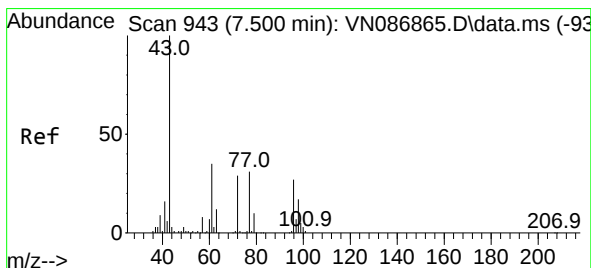
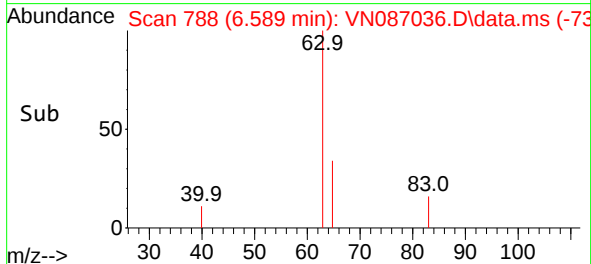
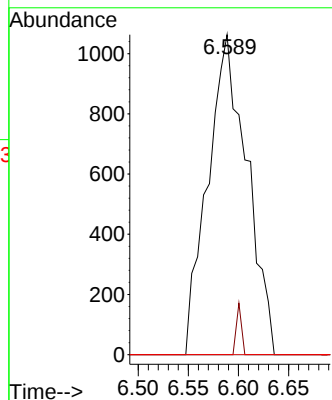
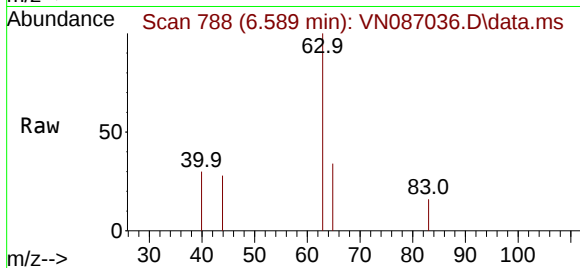




#24
1,1-Dichloroethane
Concen: 0.463 ug/l
RT: 6.589 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

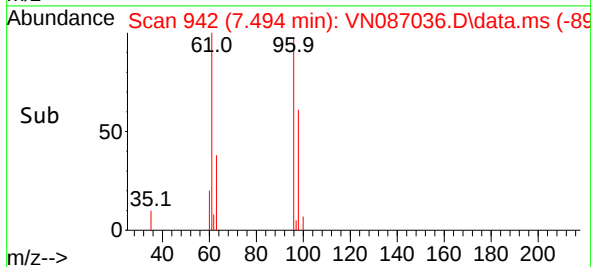
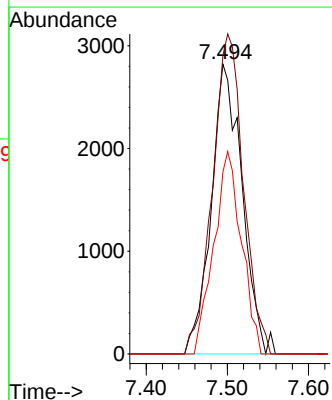
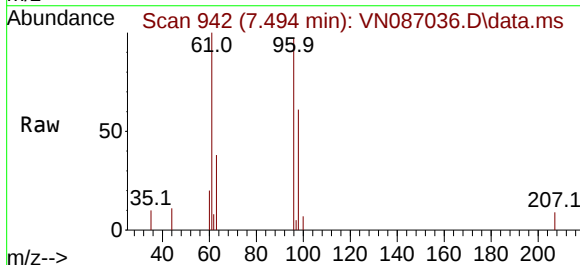
Instrument :
MSVOA_N
ClientSampleId :
TT190D1-20250611

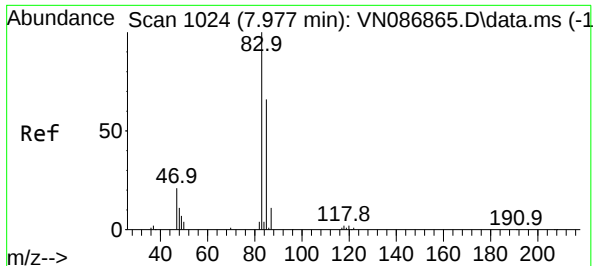
Tgt Ion: 63 Resp: 2886
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.8#
100 0.0 2.6 7.8#



#27
cis-1,2-Dichloroethene
Concen: 1.807 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.006 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

Tgt Ion: 96 Resp: 7455
Ion Ratio Lower Upper
96 100
61 110.5 0.0 278.0
98 62.5 0.0 128.2





#30

Chloroform

Concen: 0.967 ug/l

RT: 7.983 min Scan# 1025

Delta R.T. 0.006 min

Lab File: VN087036.D

Acq: 16 Jun 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

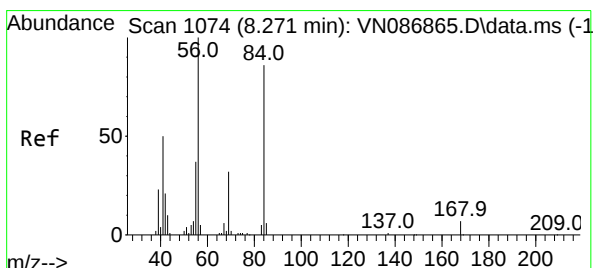
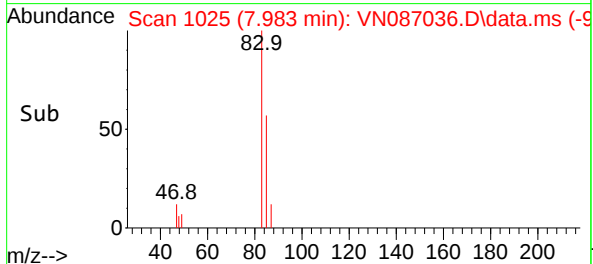
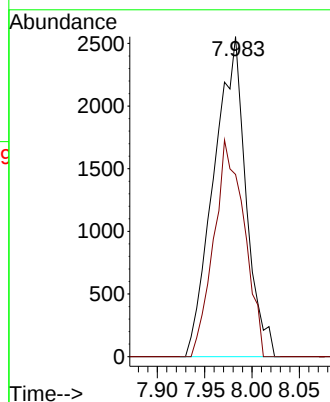
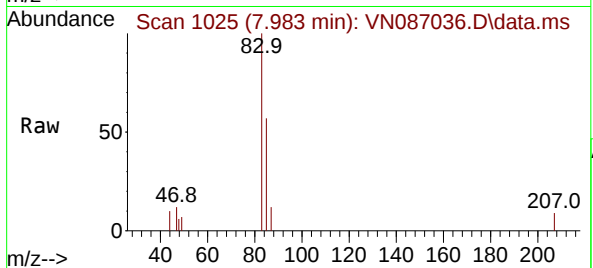
TT190D1-20250611

Tgt Ion: 83 Resp: 6026

Ion Ratio Lower Upper

83 100

85 57.0 52.9 79.3



#31

Cyclohexane

Concen: 0.833 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN087036.D

Acq: 16 Jun 2025 16:58

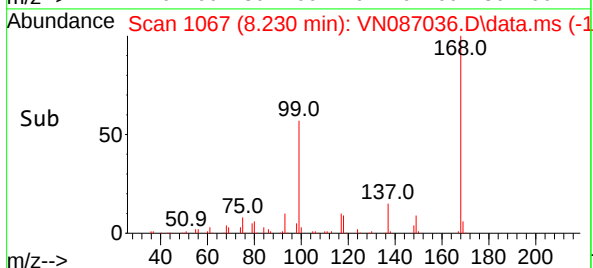
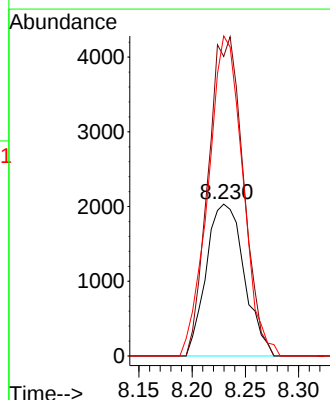
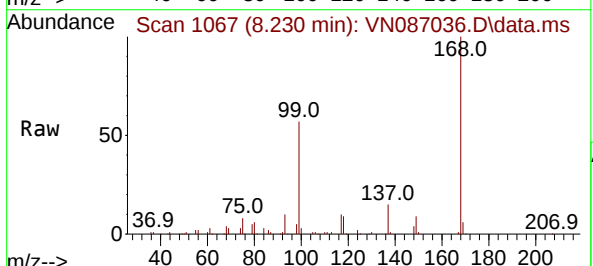
Tgt Ion: 56 Resp: 5036

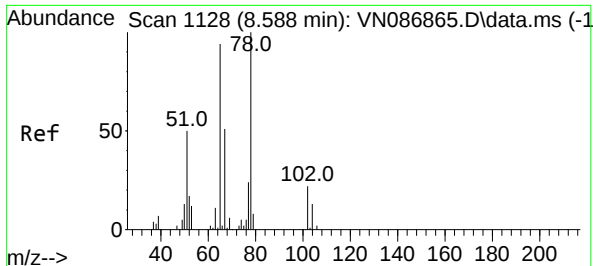
Ion Ratio Lower Upper

56 100

69 197.2 25.4 38.0#

84 210.7 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 52.170 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN087036.D

Acq: 16 Jun 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

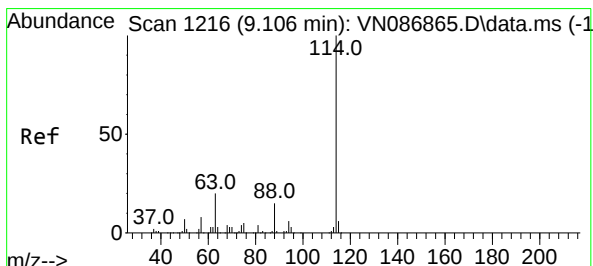
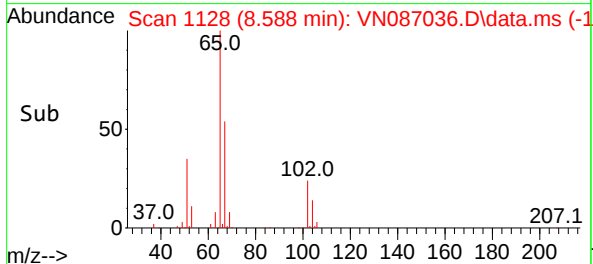
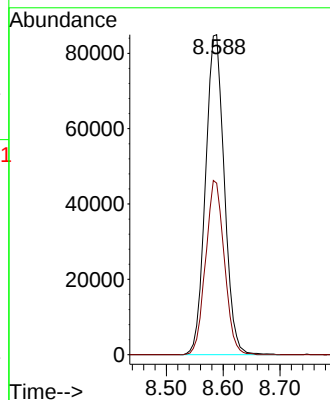
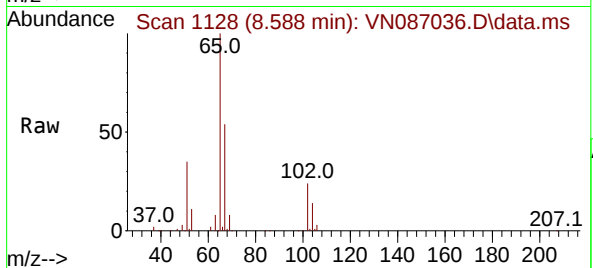
TT190D1-20250611

Tgt Ion: 65 Resp: 194575

Ion Ratio Lower Upper

65 100

67 54.1 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: VN087036.D

Acq: 16 Jun 2025 16:58

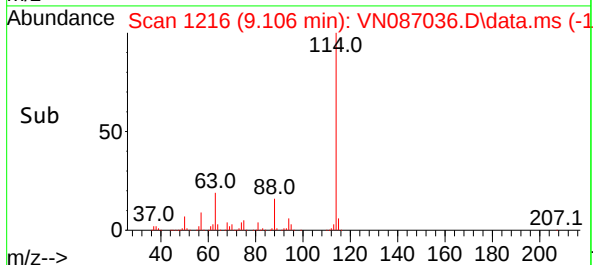
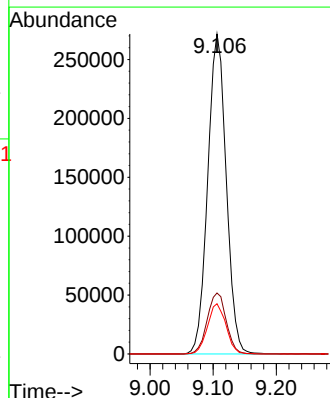
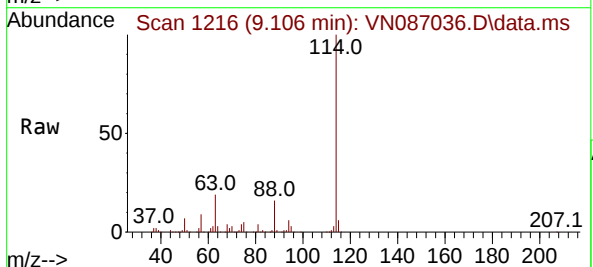
Tgt Ion: 114 Resp: 553254

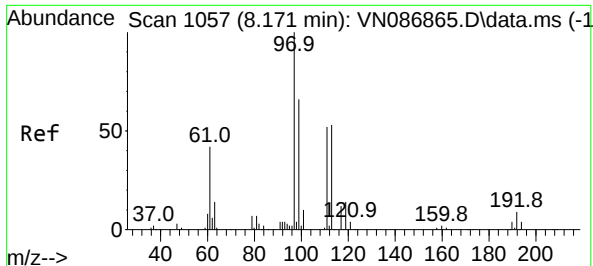
Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 15.7 0.0 30.2

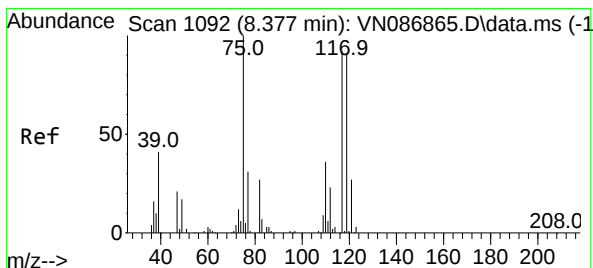
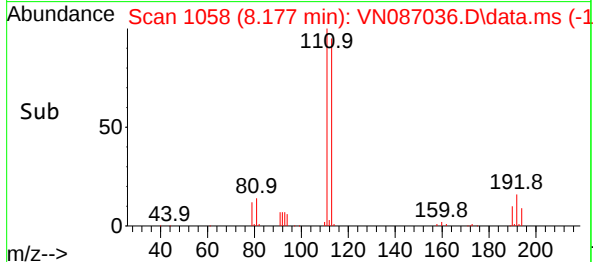
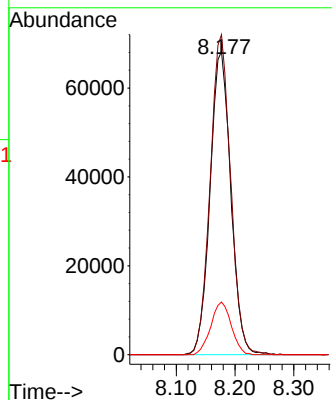
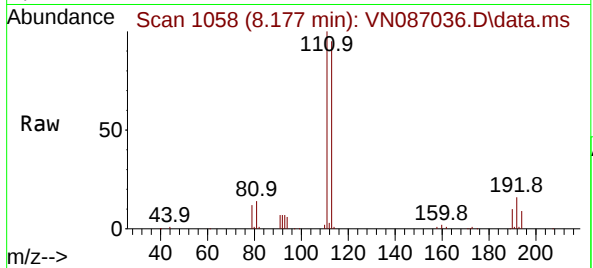




#35
Dibromofluoromethane
Concen: 50.869 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

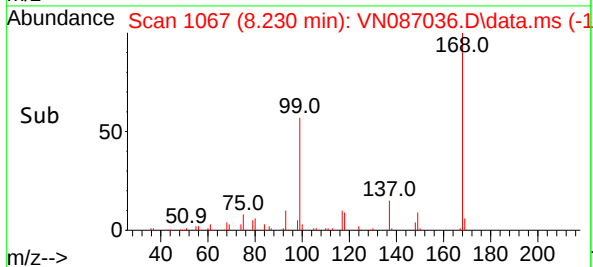
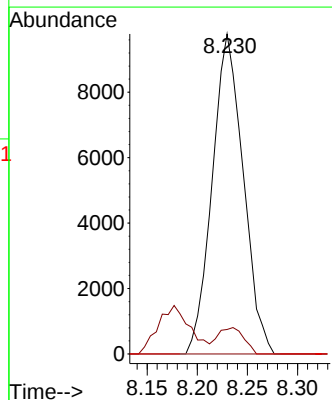
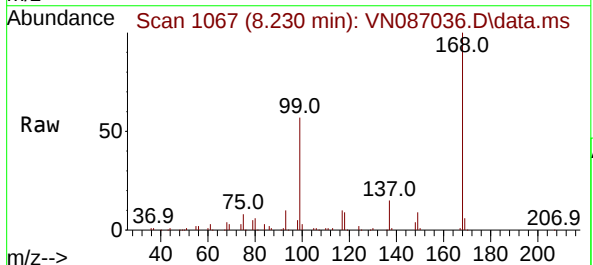
Instrument :
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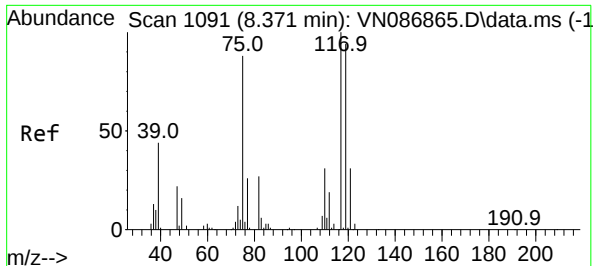
Tgt Ion:113 Resp: 166785
Ion Ratio Lower Upper
113 100
111 104.2 84.2 126.2
192 17.2 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.300 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

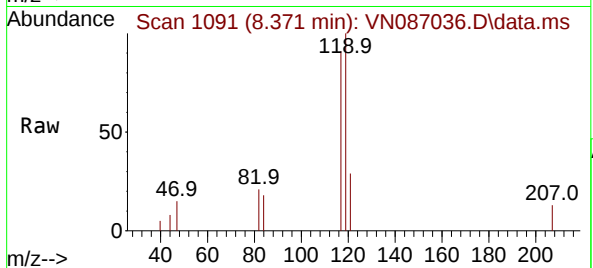
Tgt Ion: 75 Resp: 21008
Ion Ratio Lower Upper
75 100
110 6.9 17.6 52.9#
77 0.0 25.3 37.9#



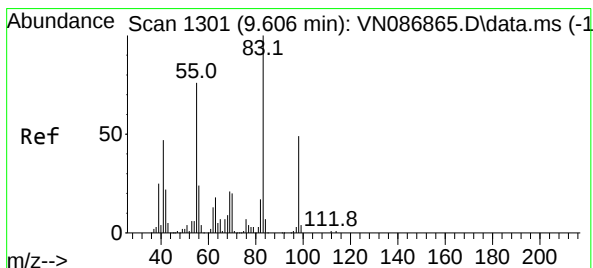
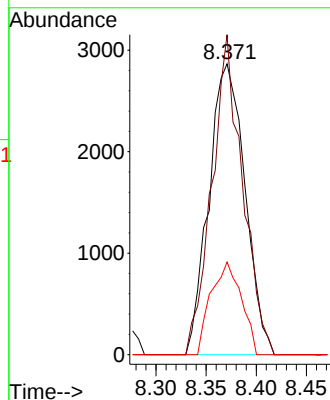
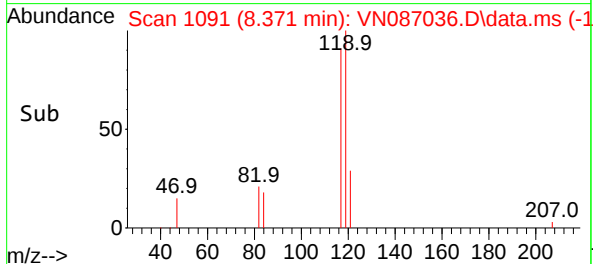


#38
Carbon Tetrachloride
Concen: 1.494 ug/l
RT: 8.371 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

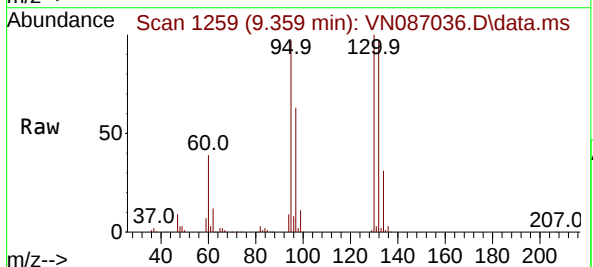
Instrument :
MSVOA_N
ClientSampleId :
TT190D1-20250611



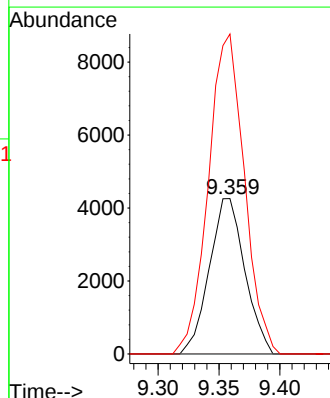
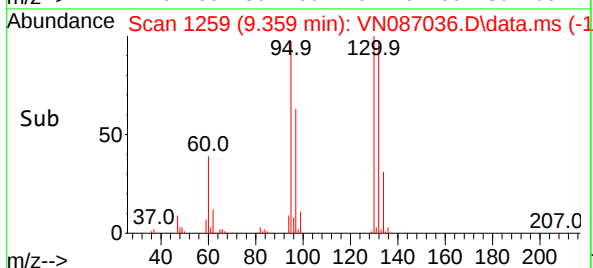
Tgt Ion:117 Resp: 7168
Ion Ratio Lower Upper
117 100
119 110.0 75.0 112.6
121 31.8 24.9 37.3

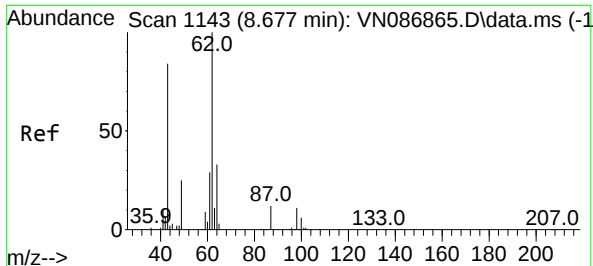


#39
Methylcyclohexane
Concen: 1.291 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.247 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58



Tgt Ion: 83 Resp: 8639
Ion Ratio Lower Upper
83 100
55 0.0 61.0 91.6#
98 205.9 38.9 58.3#





#42

1,2-Dichloroethane

Concen: 0.210 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087036.D

Acq: 16 Jun 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

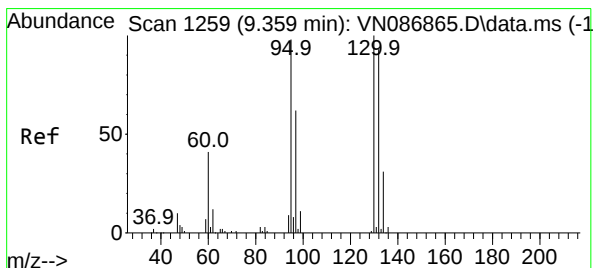
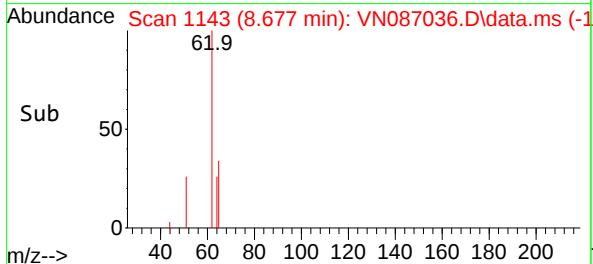
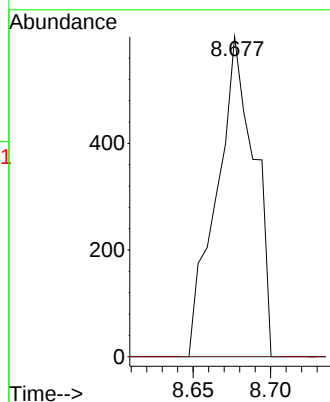
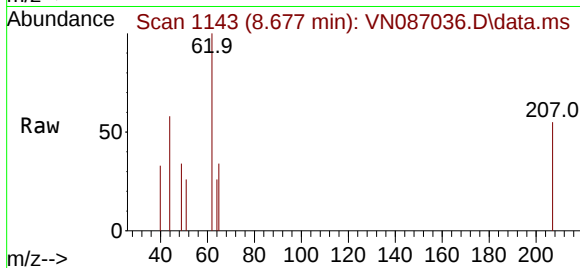
TT190D1-20250611

Tgt Ion: 62 Resp: 1016

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.2



#44

Trichloroethene

Concen: 202.049 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VN087036.D

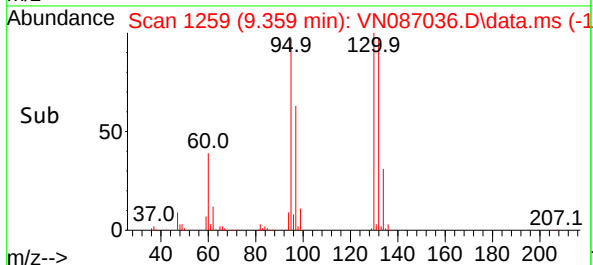
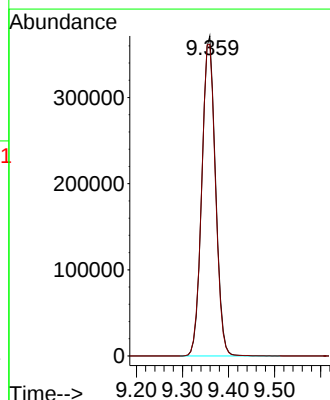
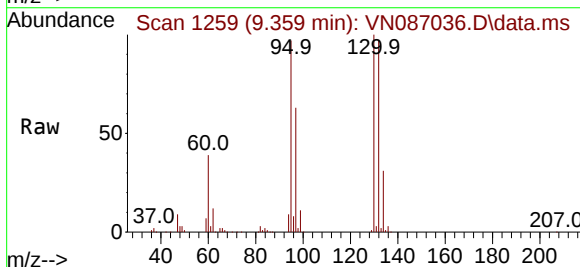
Acq: 16 Jun 2025 16:58

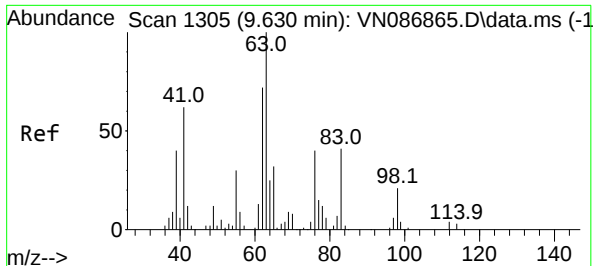
Tgt Ion:130 Resp: 765405

Ion Ratio Lower Upper

130 100

95 97.3 0.0 196.2





#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.276 min

Lab File: VN087036.D

Acq: 16 Jun 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

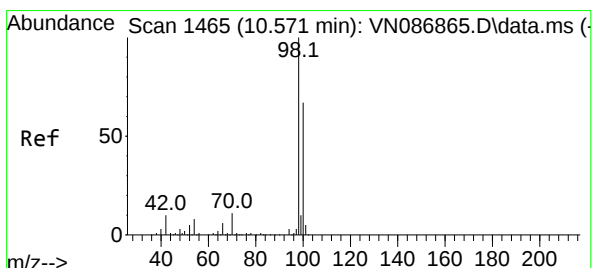
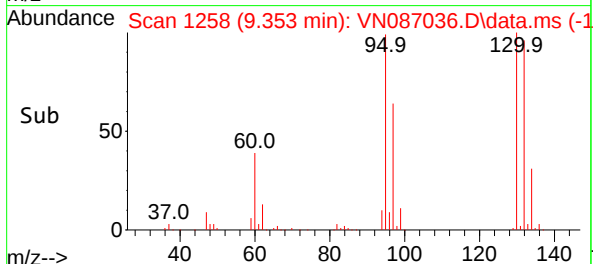
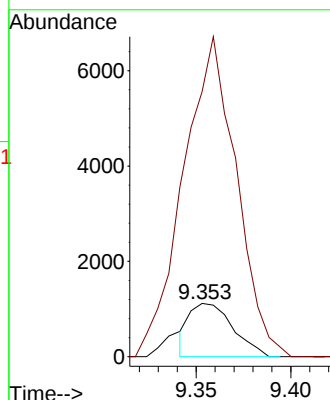
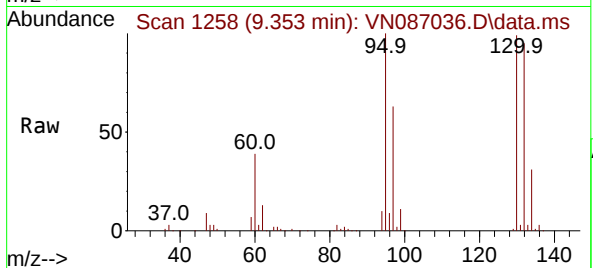
TT190D1-20250611

Tgt Ion: 63 Resp: 1785

Ion Ratio Lower Upper

63 100

65 479.4 25.5 38.3#



#50

Toluene-d8

Concen: 52.194 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN087036.D

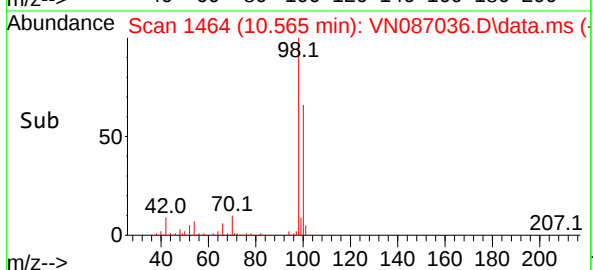
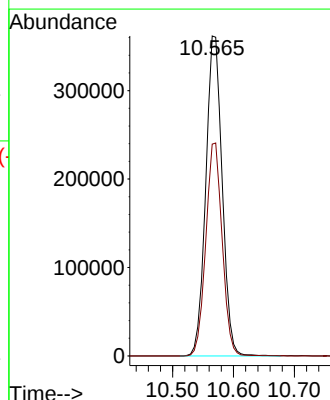
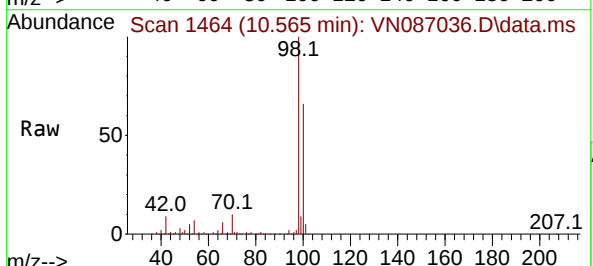
Acq: 16 Jun 2025 16:58

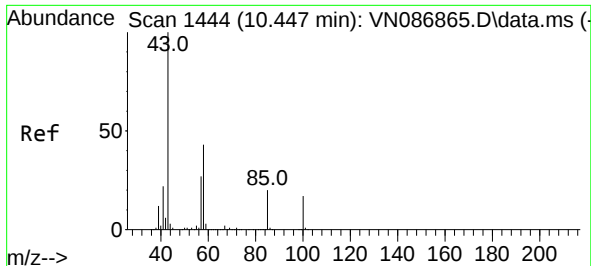
Tgt Ion: 98 Resp: 677454

Ion Ratio Lower Upper

98 100

100 66.5 53.4 80.0

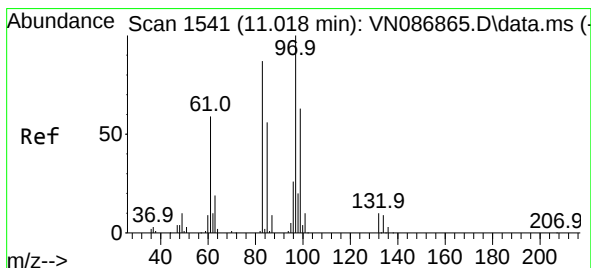
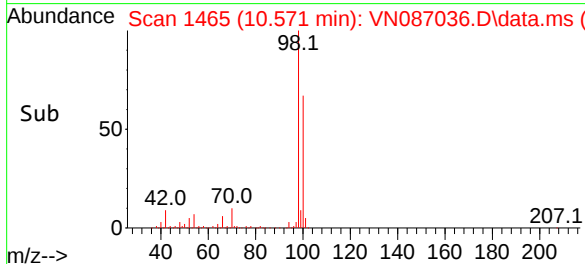
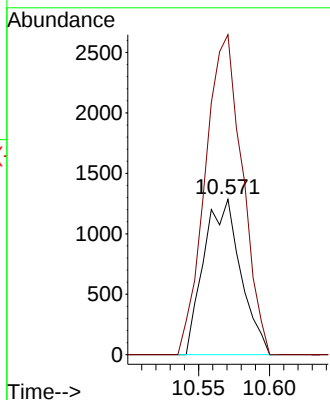
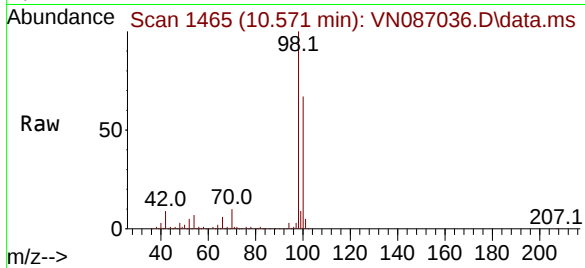




#51
4-Methyl-2-Pentanone
Concen: 0.386 ug/l
RT: 10.571 min Scan# 1444
Delta R.T. 0.124 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

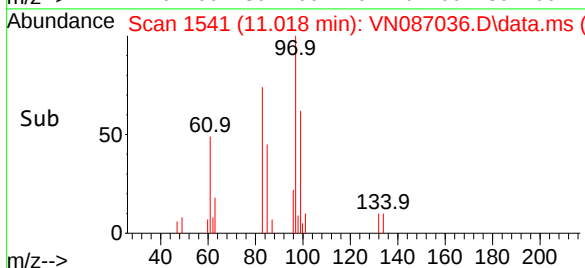
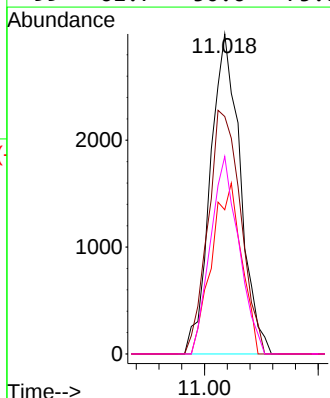
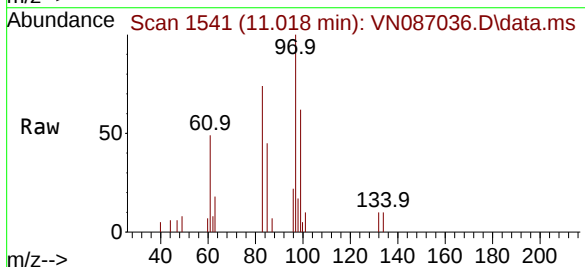
Instrument :
MSVOA_N
ClientSampleId :
TT190D1-20250611

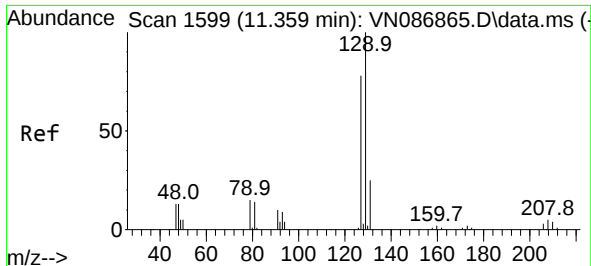
Tgt Ion: 43 Resp: 2321
Ion Ratio Lower Upper
43 100
58 207.4 34.2 51.4#



#55
1,1,2-Trichloroethane
Concen: 1.457 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

Tgt Ion: 97 Resp: 5472
Ion Ratio Lower Upper
97 100
83 74.2 69.7 104.5
85 45.0 45.1 67.7#
99 61.7 50.6 75.8

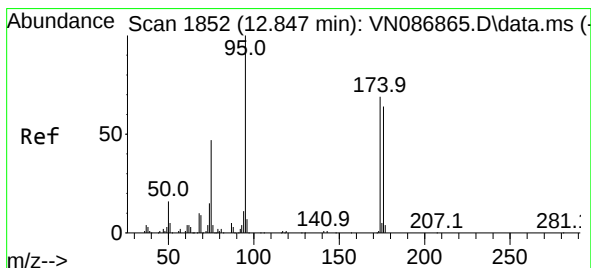
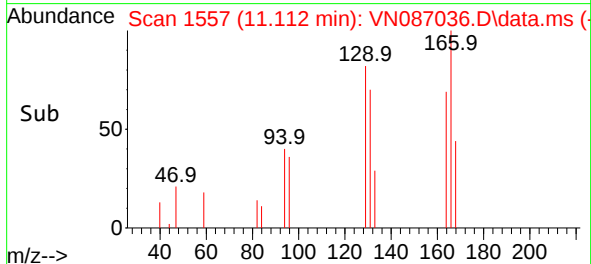
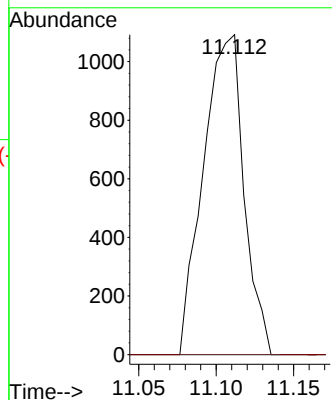
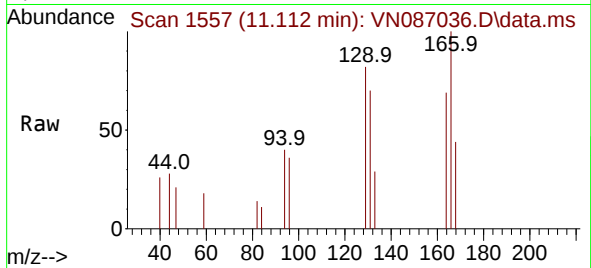




#60
Dibromochloromethane
Concen: 0.508 ug/l
RT: 11.112 min Scan# 1112
Delta R.T. -0.247 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

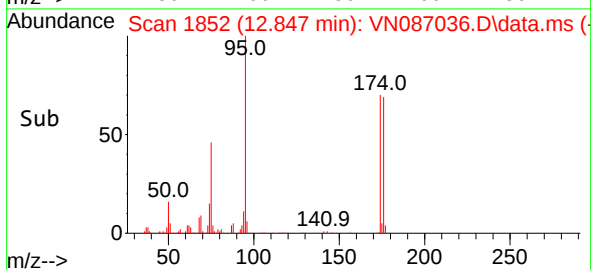
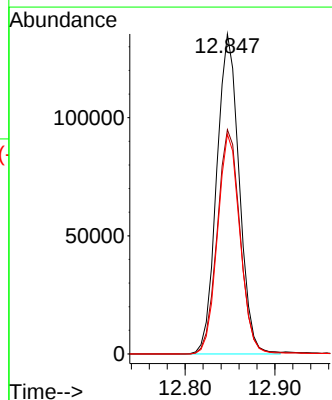
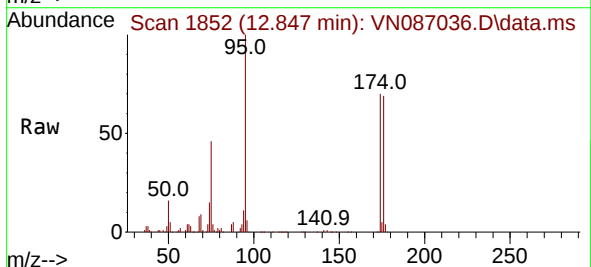
Instrument :
MSVOA_N
ClientSampleId :
TT190D1-20250611

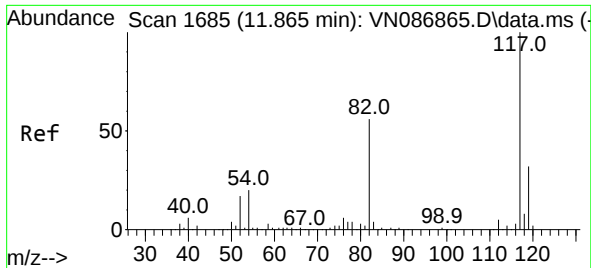
Tgt Ion:129 Resp: 1989
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 48.849 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

Tgt Ion: 95 Resp: 235565
Ion Ratio Lower Upper
95 100
174 72.0 0.0 141.8
176 68.8 0.0 132.6

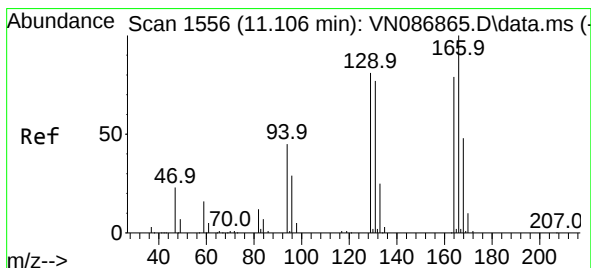
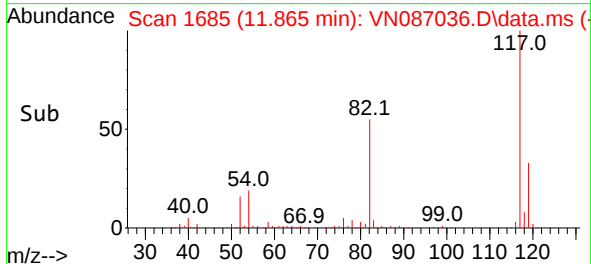
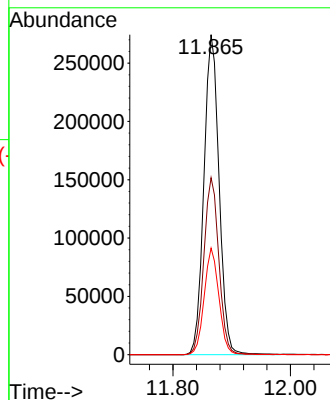
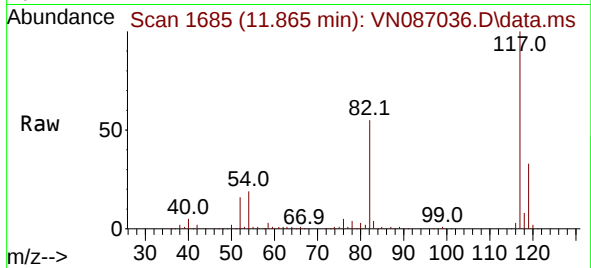




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

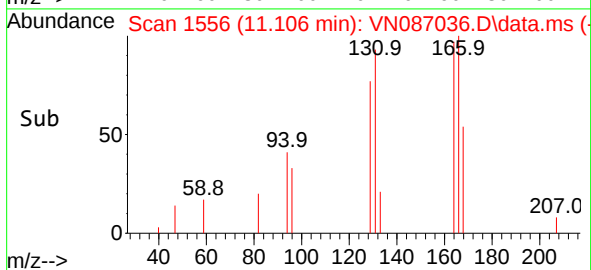
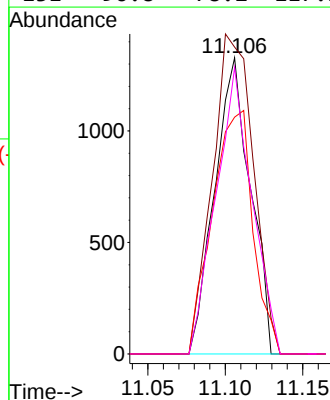
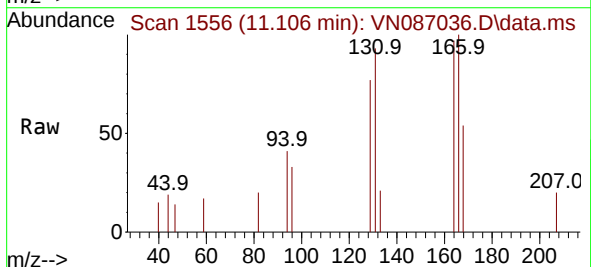
Instrument :
MSVOA_N
ClientSampleId :
TT190D1-20250611

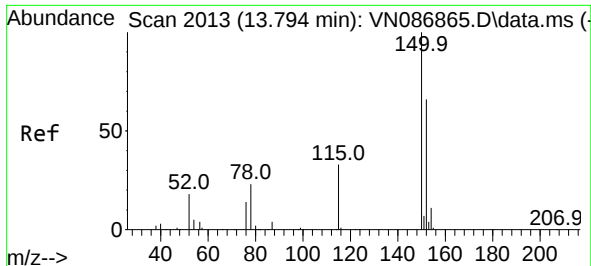
Tgt Ion:117 Resp: 491886
Ion Ratio Lower Upper
117 100
82 55.3 44.6 67.0
119 33.3 25.5 38.3



#64
Tetrachloroethene
Concen: 0.684 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN087036.D
Acq: 16 Jun 2025 16:58

Tgt Ion:164 Resp: 2130
Ion Ratio Lower Upper
164 100
166 103.6 101.8 152.8
129 80.0 83.0 124.4#
131 96.8 78.2 117.2

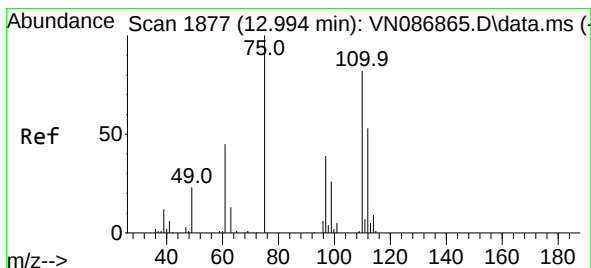
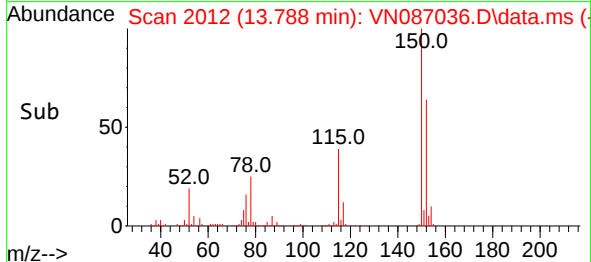
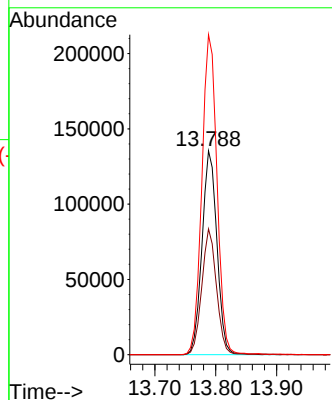
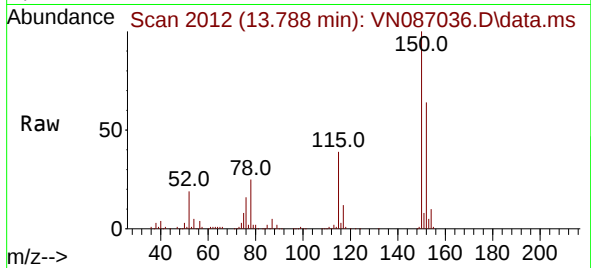




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN087036.D
 Acq: 16 Jun 2025 16:58

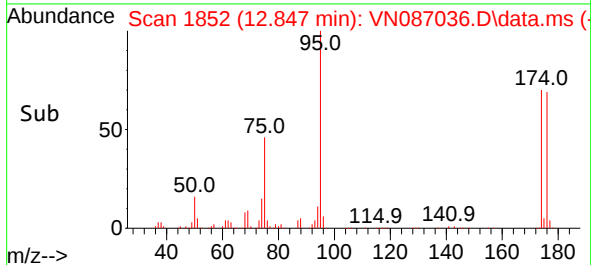
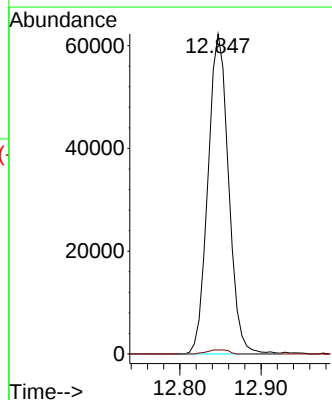
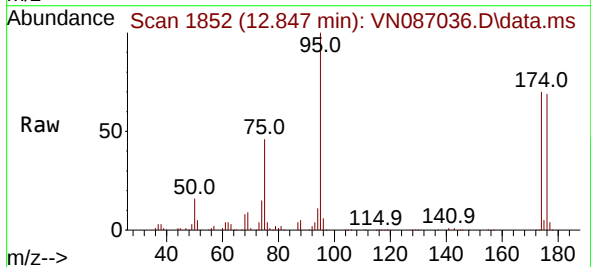
Instrument :
 MSVOA_N
 ClientSampleId :
 TT190D1-20250611

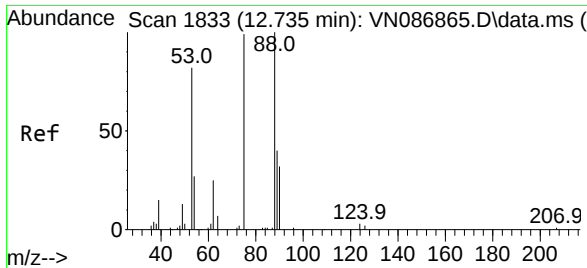
Tgt Ion:152 Resp: 231060
 Ion Ratio Lower Upper
 152 100
 115 60.6 30.1 90.5
 150 159.0 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 19.999 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087036.D
 Acq: 16 Jun 2025 16:58

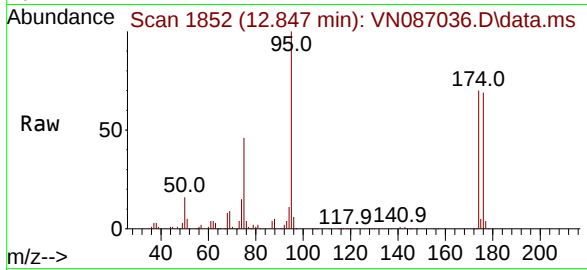
Tgt Ion: 75 Resp: 109844
 Ion Ratio Lower Upper
 75 100
 77 1.3 79.3 237.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 46.038 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087036.D
 Acq: 16 Jun 2025 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 TT190D1-20250611



Tgt Ion: 75 Resp: 109844
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.6 99.8#
 89 0.0 36.7 55.1#

