

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087854.D
 Acq On : 16 Sep 2025 16:50
 Operator : JC\MD
 Sample : Q3109-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

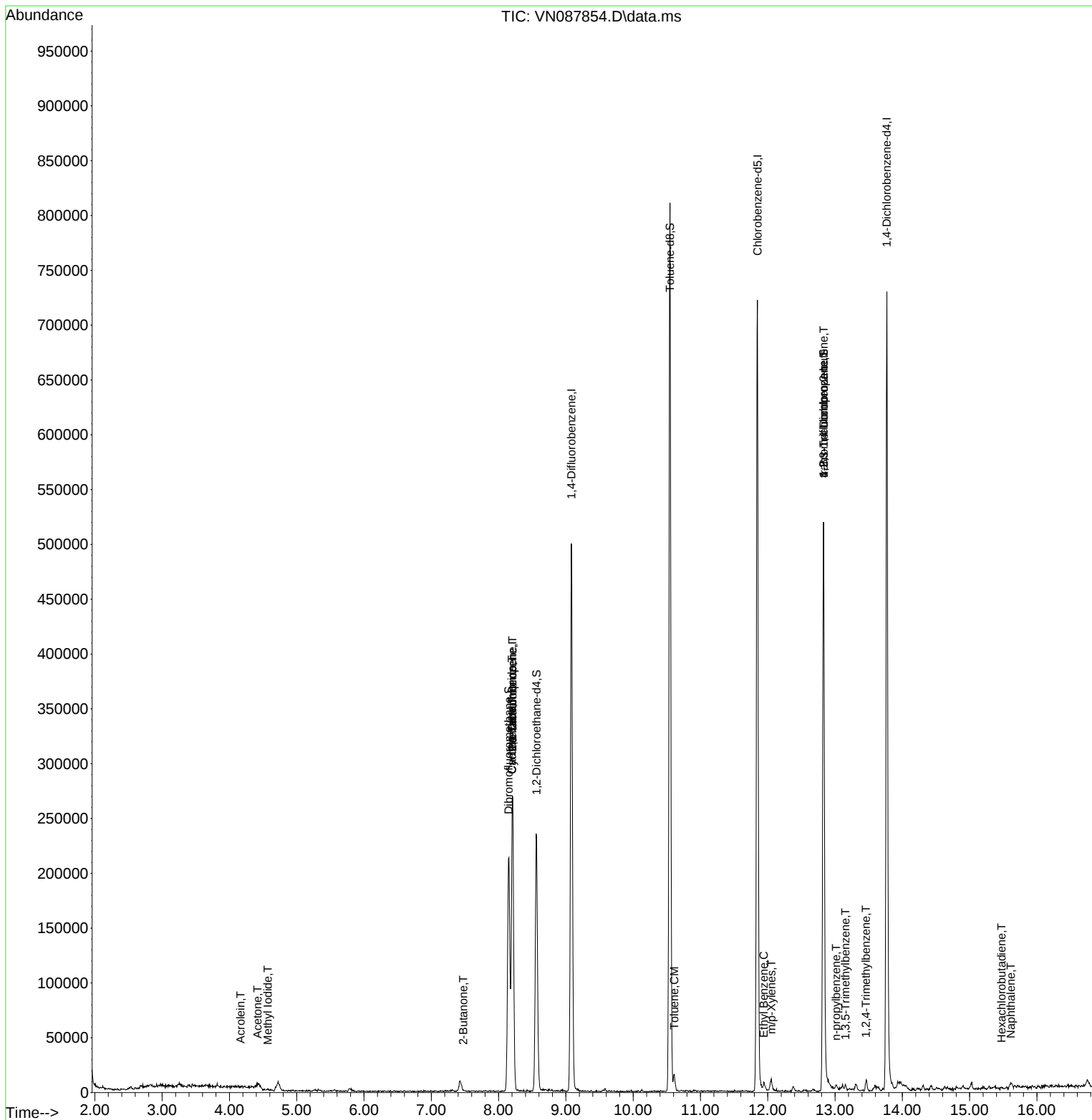
Quant Time: Sep 17 01:23:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

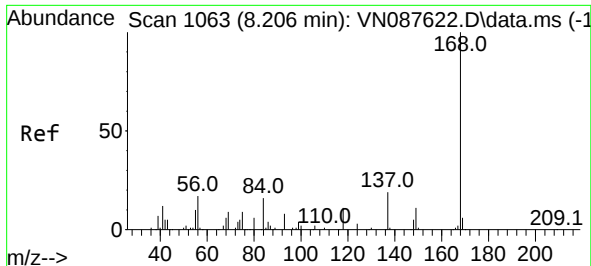
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	186859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	417903	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	408304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	185626	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	191050	49.902	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.800%
35) Dibromofluoromethane	8.147	113	156166	51.758	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.520%
50) Toluene-d8	10.547	98	531551	47.069	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.140%
62) 4-Bromofluorobenzene	12.829	95	190599	47.458	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.920%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.571	142	134	6.870	ug/l #	38
13) Acrolein	4.165	56	324	0.397	ug/l #	14
16) Acetone	4.418	43	8351	4.007	ug/l	97
20) Methylene Chloride	5.265	84	71	Below Cal	#	5
25) 2-Butanone	7.477	43	578	0.211	ug/l #	50
31) Cyclohexane	8.200	56	5728	1.189	ug/l #	63
36) 1,1-Dichloropropene	8.206	75	15768	3.406	ug/l #	53
38) Carbon Tetrachloride	8.200	117	21696	4.747	ug/l #	16
52) Toluene	10.612	92	6221	0.707	ug/l	91
67) Ethyl Benzene	11.941	91	4159	0.236	ug/l	89
68) m/p-Xylenes	12.053	106	3386	0.525	ug/l	92
76) 1,2,3-Trichloropropane	12.829	75	105638	24.268	ug/l #	1
78) n-propylbenzene	13.018	91	4764	0.258	ug/l	95
80) 1,3,5-Trimethylbenzene	13.153	105	2691	0.211	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.829	75	105638	64.246	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.459	105	6366	0.500	ug/l	86
94) Hexachlorobutadiene	15.476	225	445	0.315	ug/l #	18
95) Naphthalene	15.611	128	5587	0.398	ug/l #	91

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

Quant Time: Sep 17 01:23:58 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

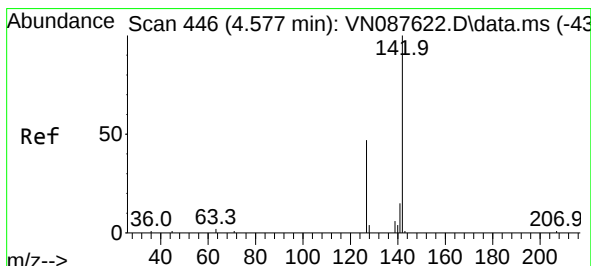
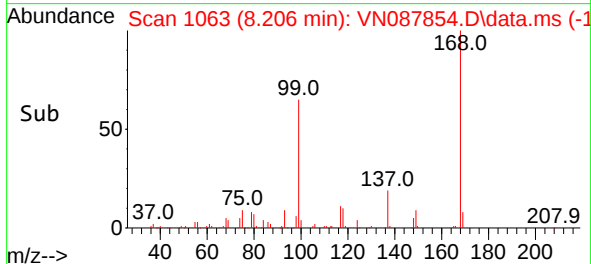
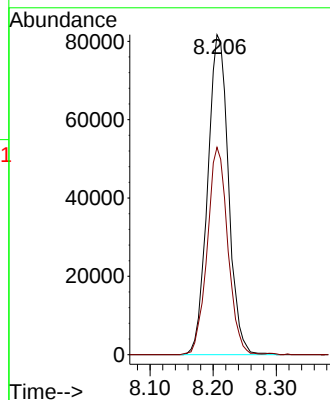
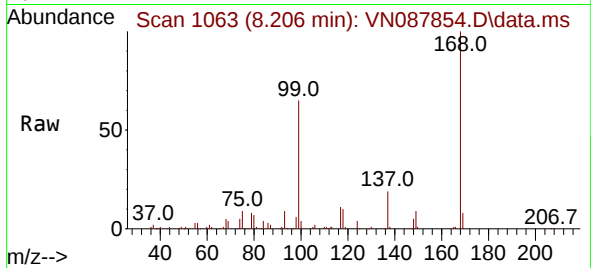




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

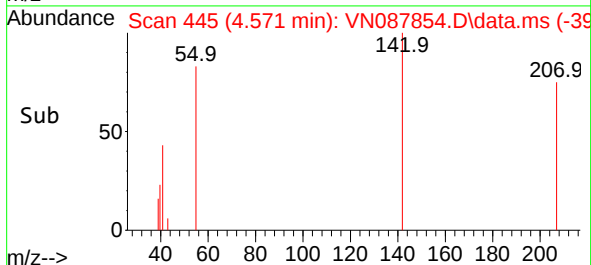
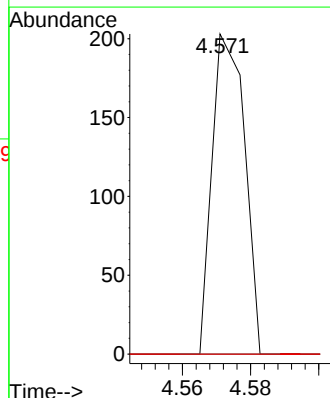
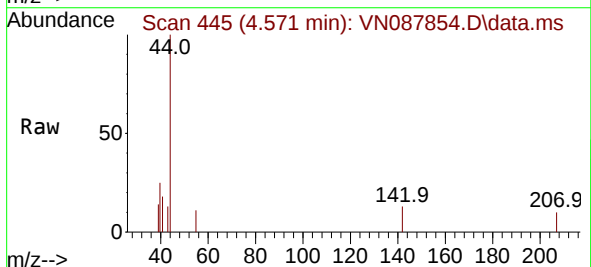
Instrument :
MSVOA_N
ClientSampleId :

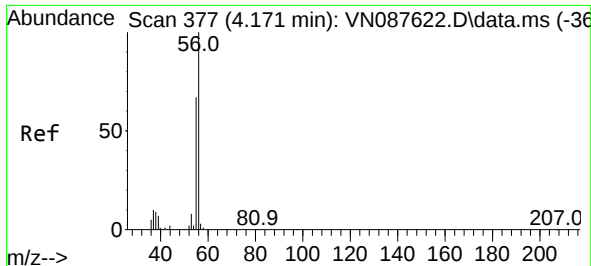
Tgt Ion:168 Resp: 186859
Ion Ratio Lower Upper
168 100
99 64.8 57.2 85.8



#10
Methyl Iodide
Concen: 6.870 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion:142 Resp: 134
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

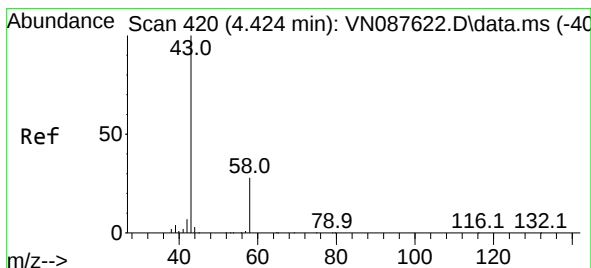
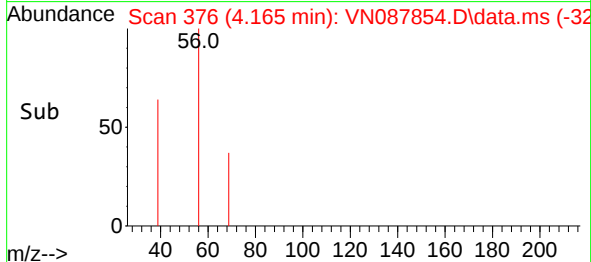
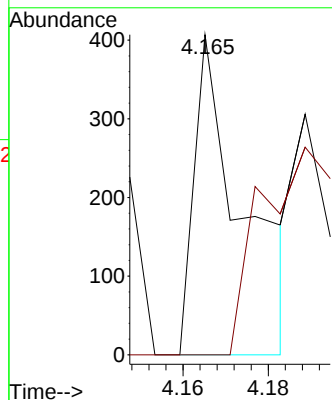
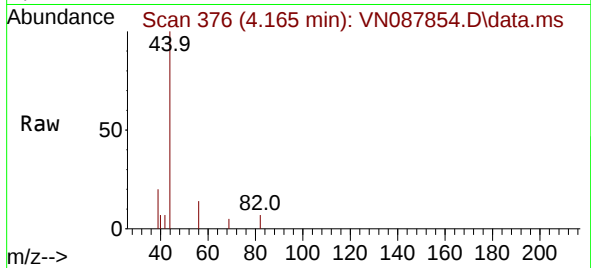




#13
Acrolein
Concen: 0.397 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

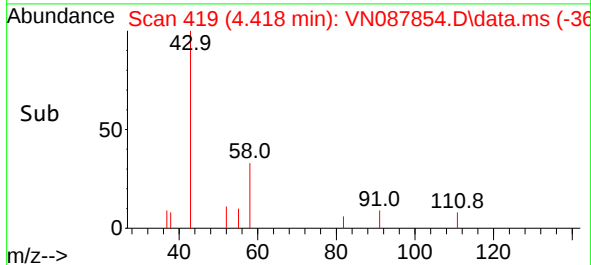
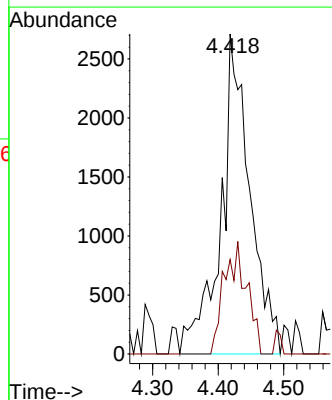
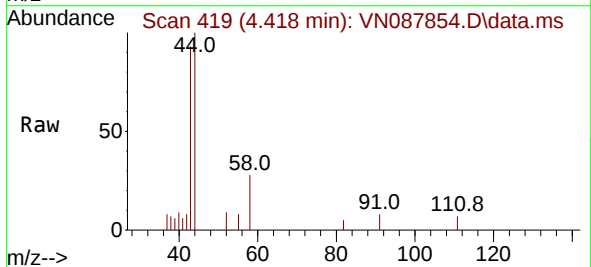
Instrument :
MSVOA_N
ClientSampleId :

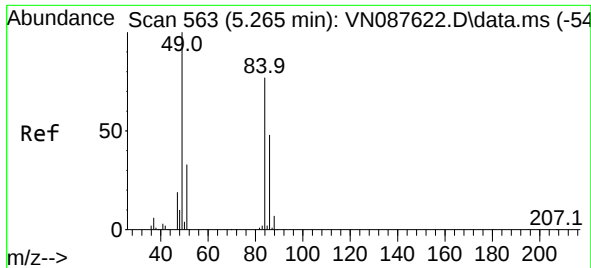
Tgt Ion: 56 Resp: 324
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#



#16
Acetone
Concen: 4.007 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

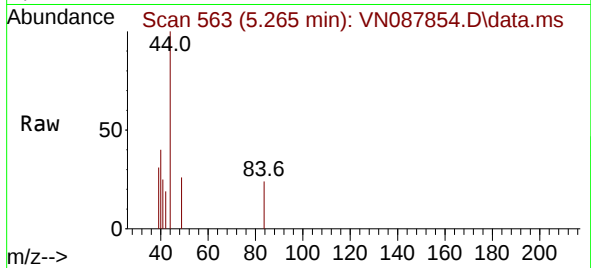
Tgt Ion: 43 Resp: 8351
Ion Ratio Lower Upper
43 100
58 29.5 22.6 33.8



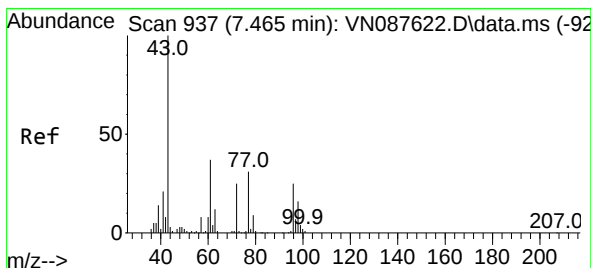
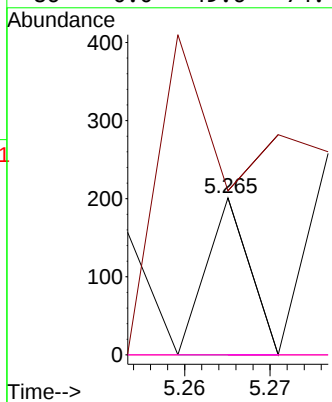
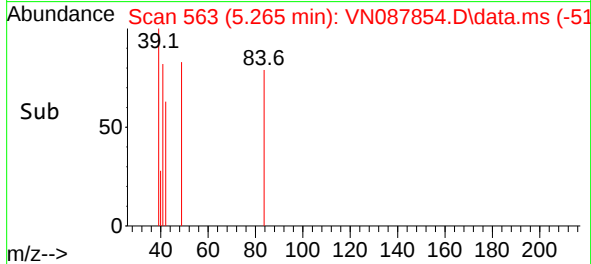


#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

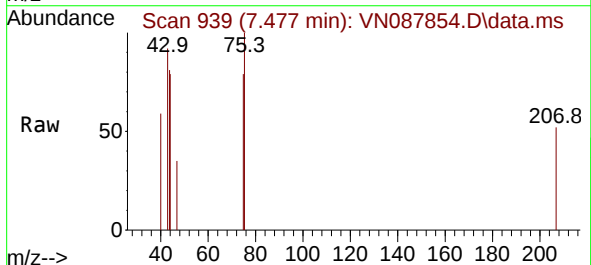
Instrument :
MSVOA_N
ClientSampleId :



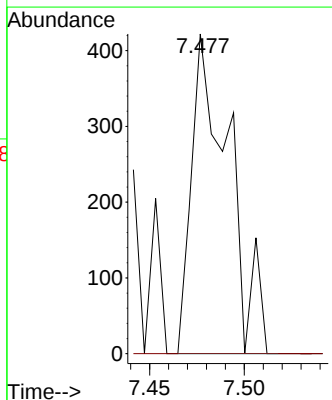
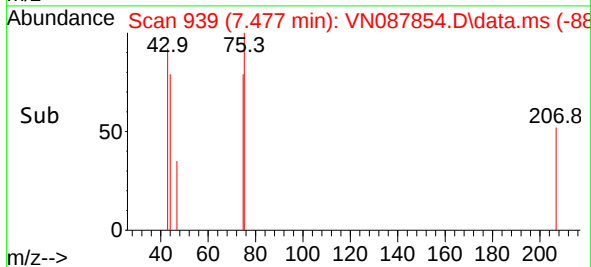
Tgt Ion: 84 Resp: 71
Ion Ratio Lower Upper
84 100
49 0.0 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#

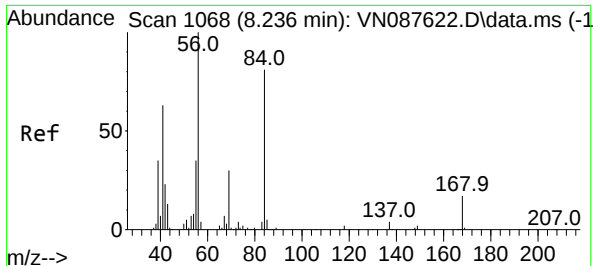


#25
2-Butanone
Concen: 0.211 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50



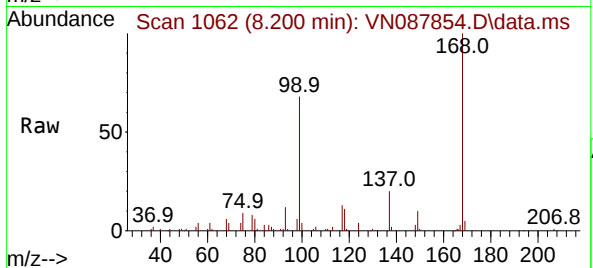
Tgt Ion: 43 Resp: 578
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



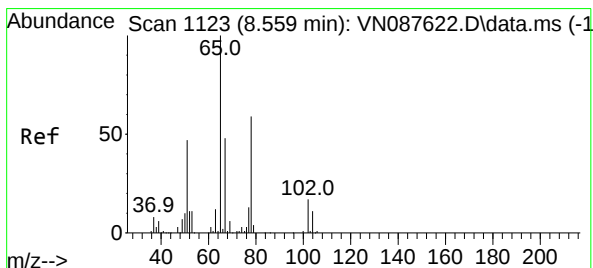
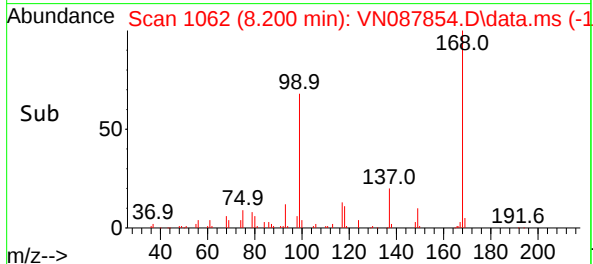
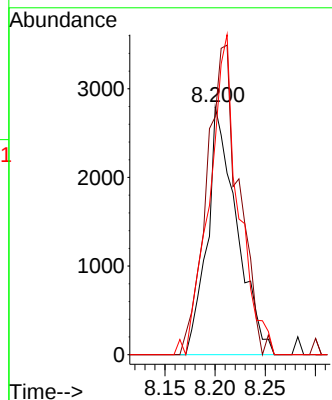


#31
Cyclohexane
Concen: 1.189 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Instrument :
MSVOA_N
ClientSampleId :

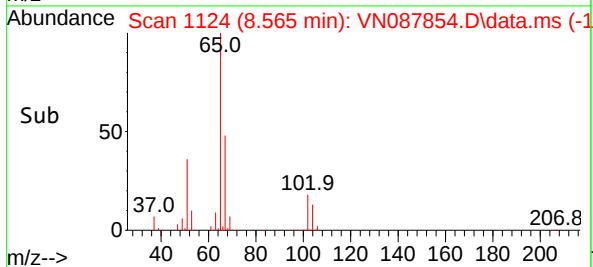
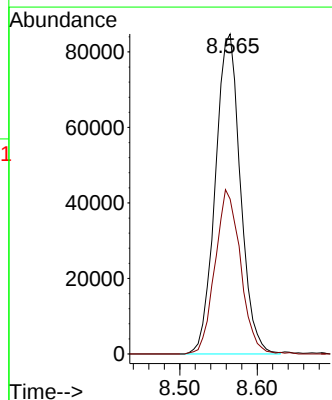
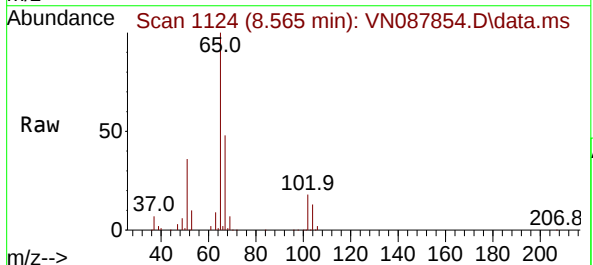


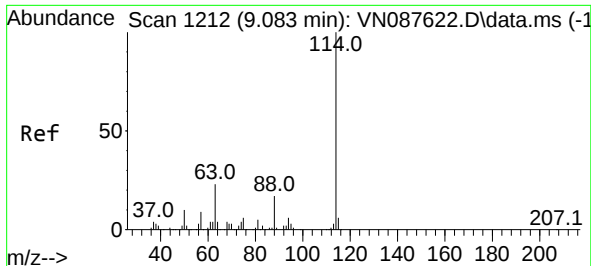
Tgt Ion: 56 Resp: 5728
Ion Ratio Lower Upper
56 100
69 96.0 23.7 35.5#
84 86.2 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 49.902 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion: 65 Resp: 191050
Ion Ratio Lower Upper
65 100
67 52.2 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: VN087854.D

Acq: 16 Sep 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

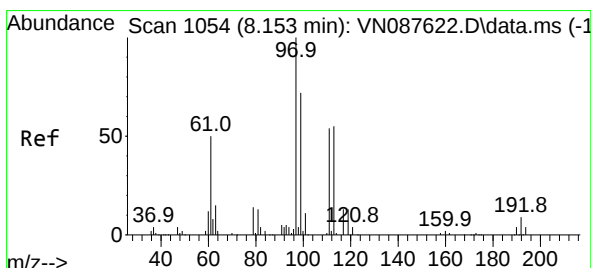
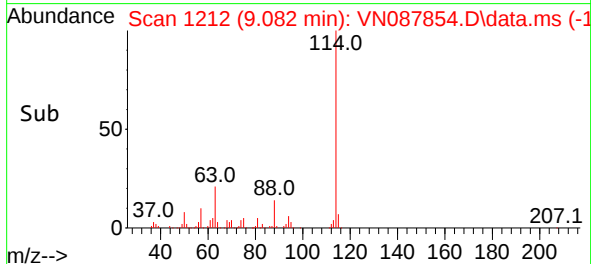
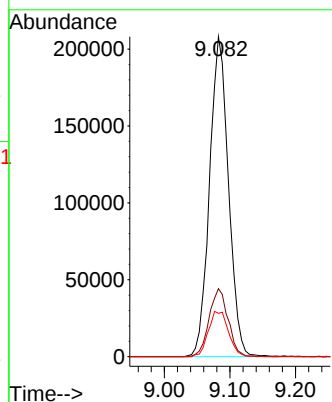
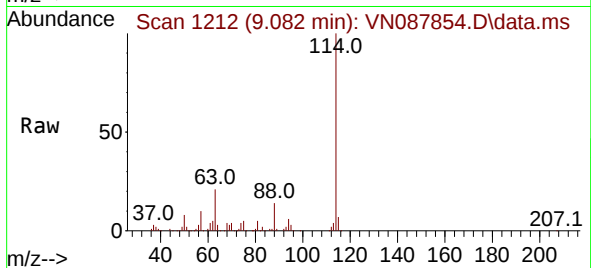
Tgt Ion:114 Resp: 417903

Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.2

88 13.6 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.758 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087854.D

Acq: 16 Sep 2025 16:50

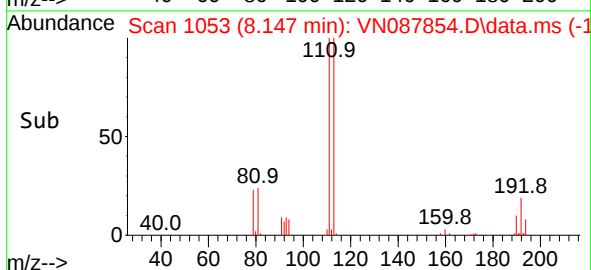
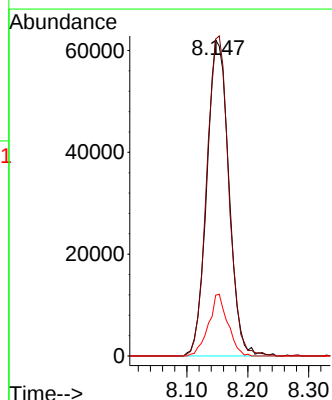
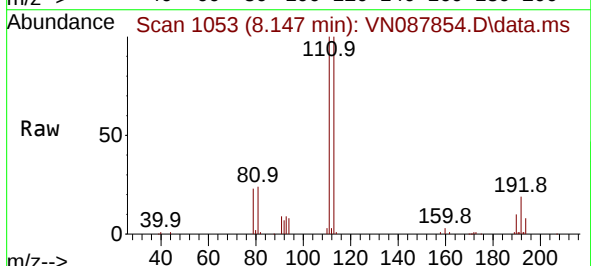
Tgt Ion:113 Resp: 156166

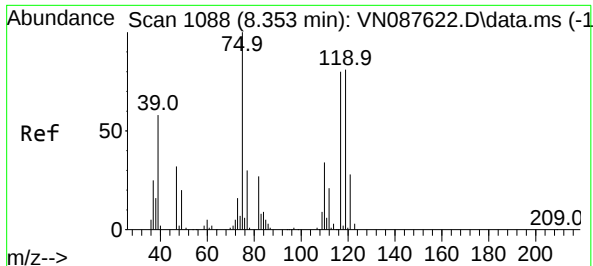
Ion Ratio Lower Upper

113 100

111 100.6 82.8 124.2

192 17.1 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.406 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087854.D

Acq: 16 Sep 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

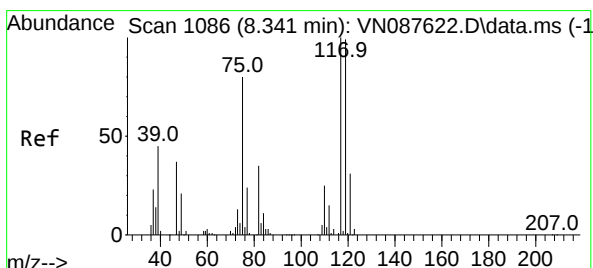
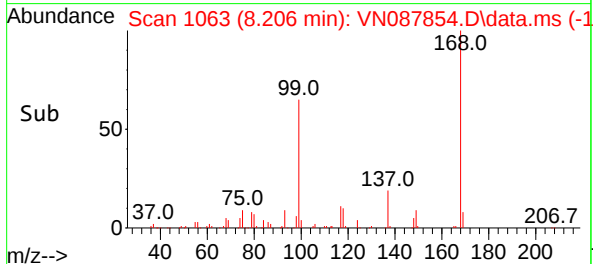
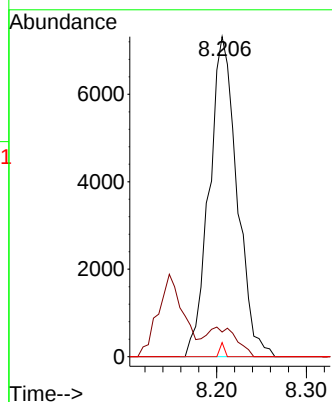
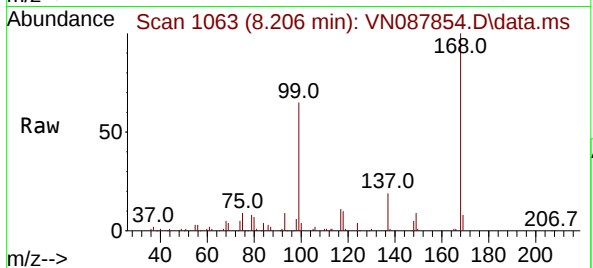
Tgt Ion: 75 Resp: 15768

Ion Ratio Lower Upper

75 100

110 9.6 15.9 47.6#

77 0.7 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.747 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.141 min

Lab File: VN087854.D

Acq: 16 Sep 2025 16:50

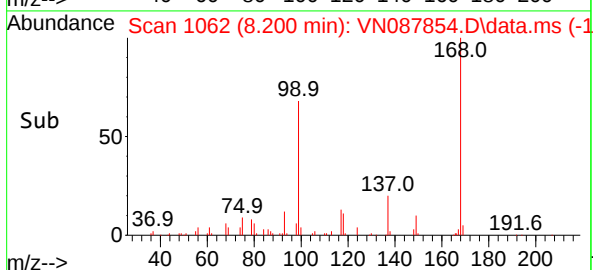
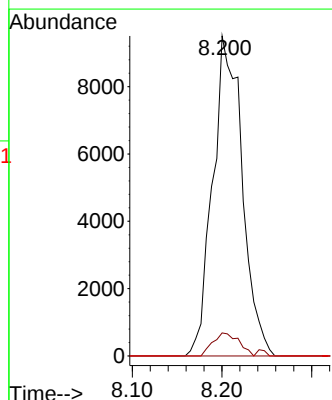
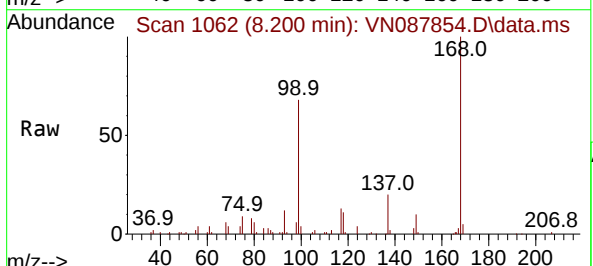
Tgt Ion: 117 Resp: 21696

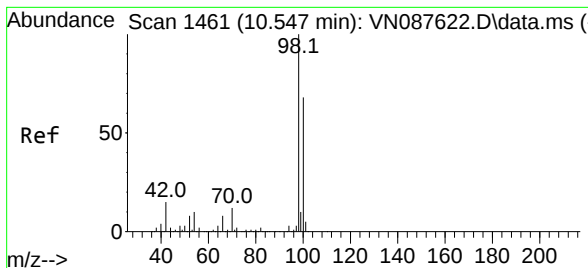
Ion Ratio Lower Upper

117 100

119 7.2 79.0 118.6#

121 0.0 25.0 37.6#

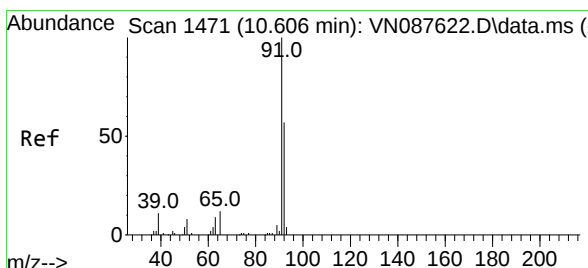
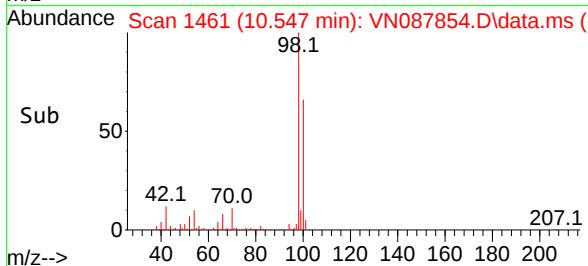
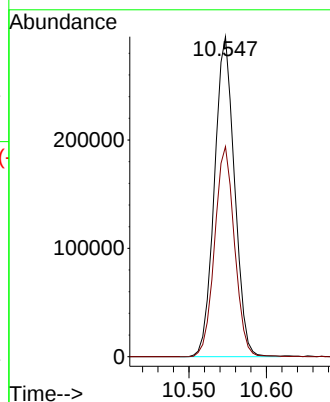
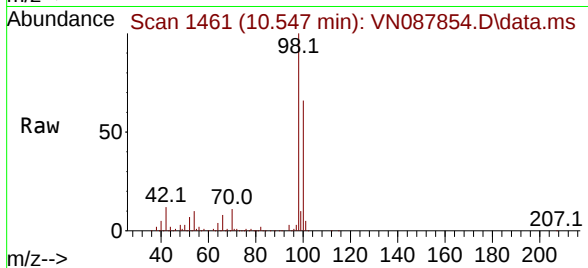




#50
Toluene-d8
Concen: 47.069 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

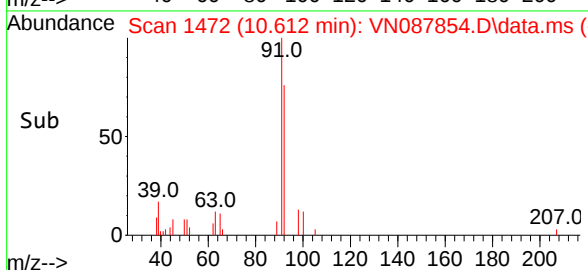
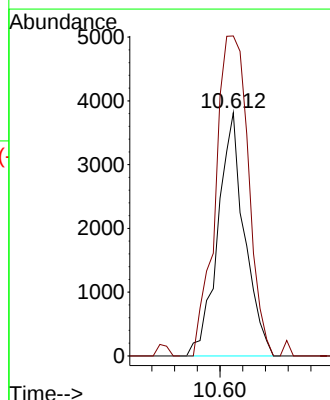
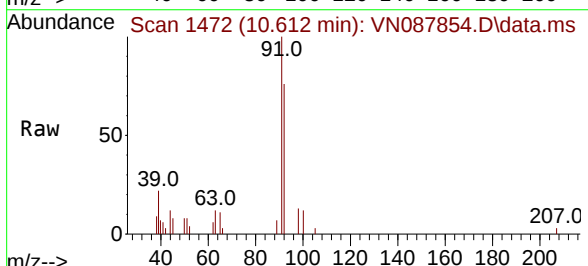
Instrument :
MSVOA_N
ClientSampleId :

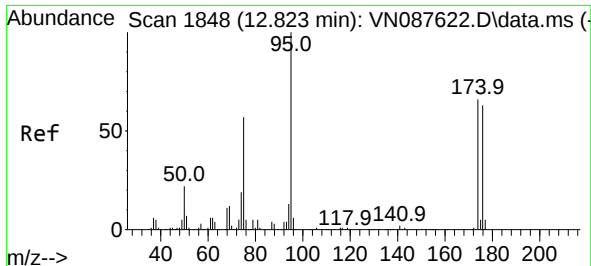
Tgt Ion: 98 Resp: 531551
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2



#52
Toluene
Concen: 0.707 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion: 92 Resp: 6221
Ion Ratio Lower Upper
92 100
91 162.6 140.4 210.6

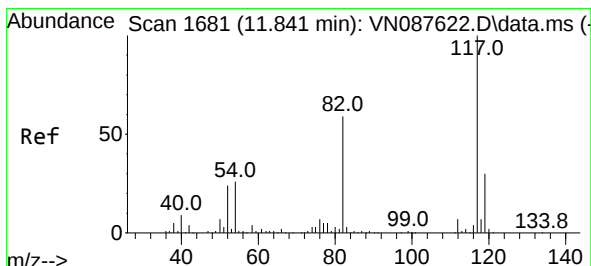
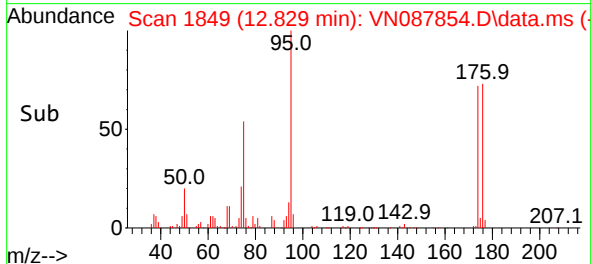
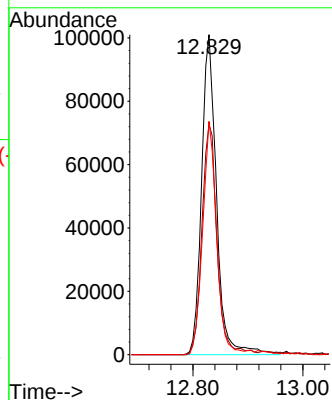
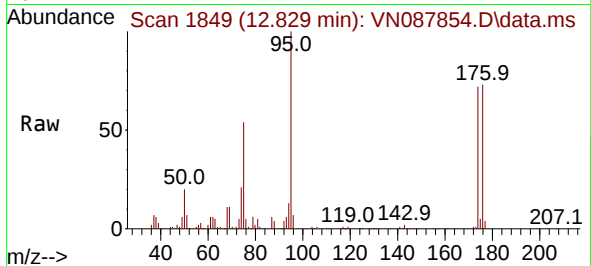




#62
4-Bromofluorobenzene
Concen: 47.458 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

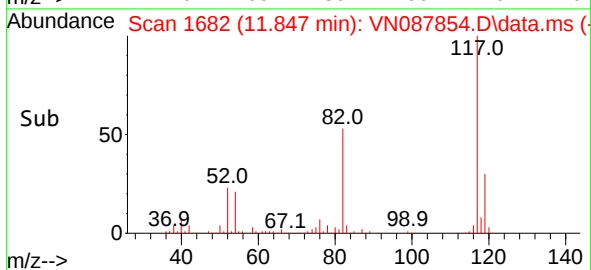
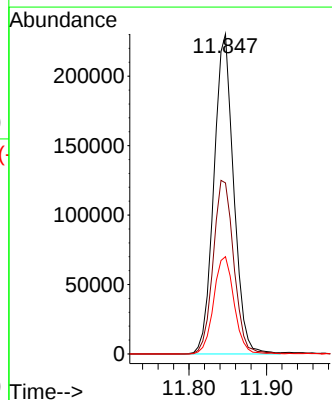
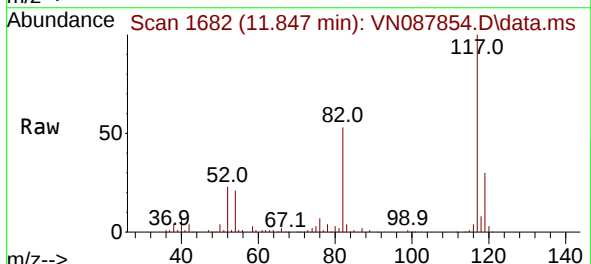
Instrument :
MSVOA_N
ClientSampleId :

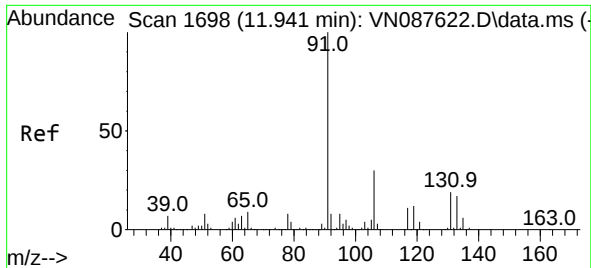
Tgt Ion: 95 Resp: 190599
Ion Ratio Lower Upper
95 100
174 72.6 0.0 138.4
176 68.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion: 117 Resp: 408304
Ion Ratio Lower Upper
117 100
82 53.5 47.4 71.2
119 30.4 24.3 36.5

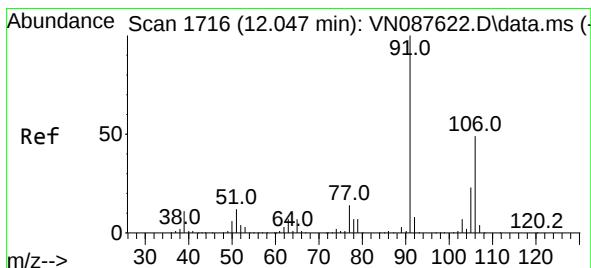
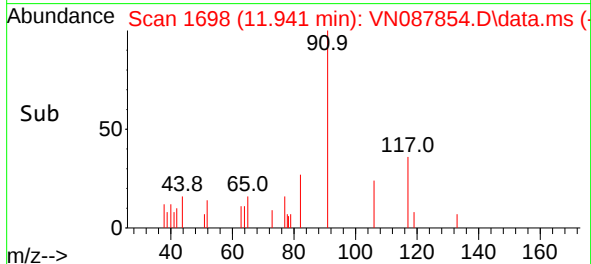
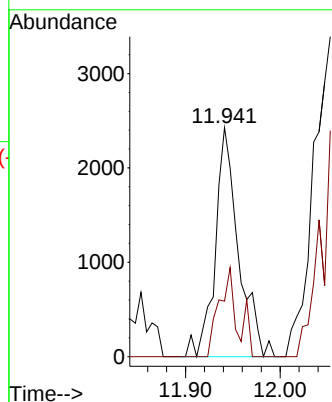
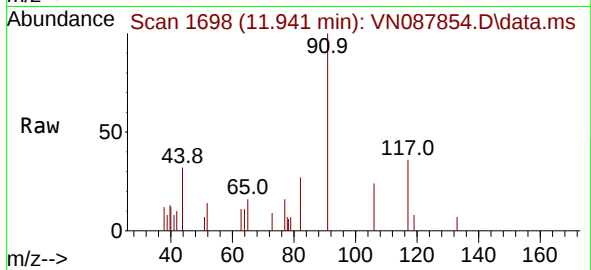




#67
Ethyl Benzene
Concen: 0.236 ug/l
RT: 11.941 min Scan# 1198
Delta R.T. -0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

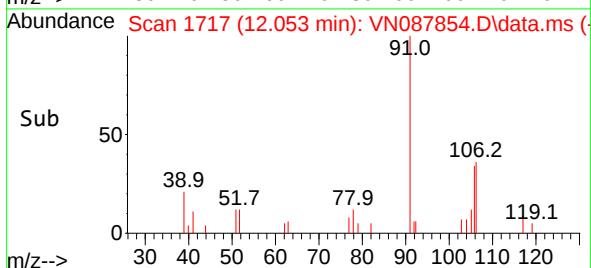
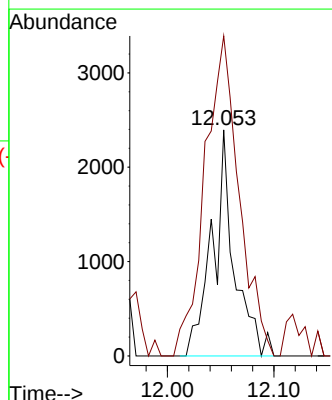
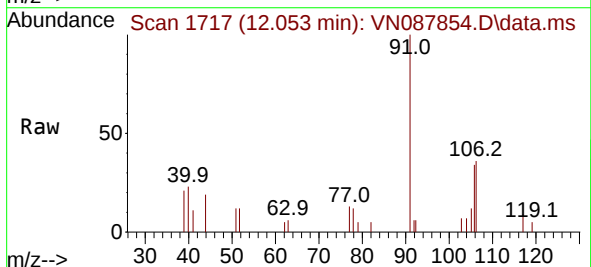
Instrument :
MSVOA_N
ClientSampleId :

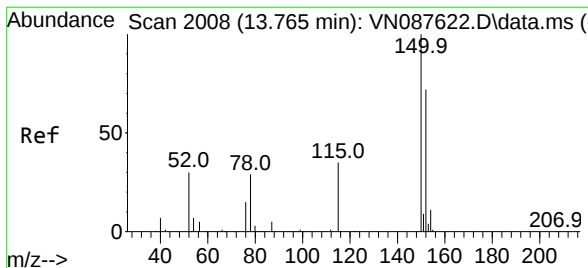
Tgt Ion: 91 Resp: 4159
Ion Ratio Lower Upper
91 100
106 24.3 24.1 36.1



#68
m/p-Xylenes
Concen: 0.525 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion: 106 Resp: 3386
Ion Ratio Lower Upper
106 100
91 223.4 169.3 253.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN087854.D

Acq: 16 Sep 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

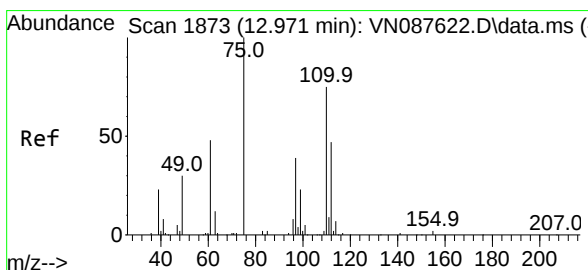
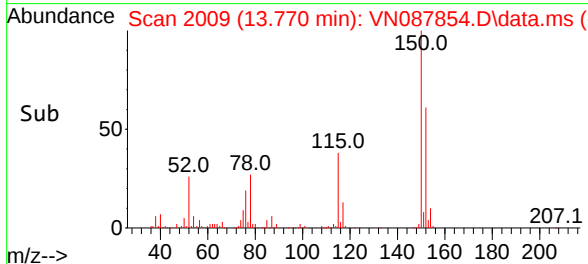
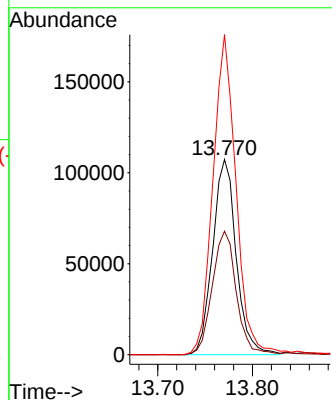
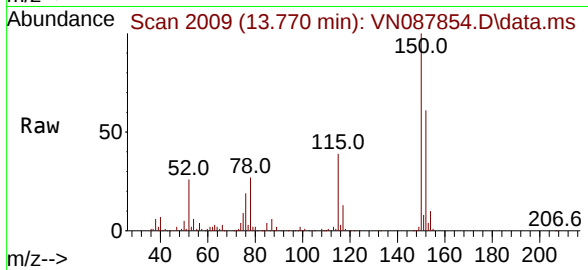
Tgt Ion:152 Resp: 185626

Ion Ratio Lower Upper

152 100

115 64.5 32.3 96.8

150 162.3 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 24.268 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087854.D

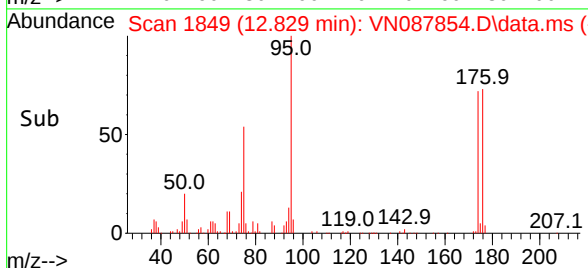
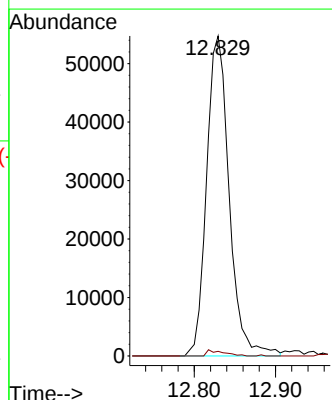
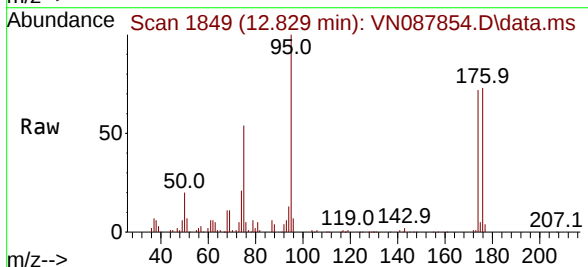
Acq: 16 Sep 2025 16:50

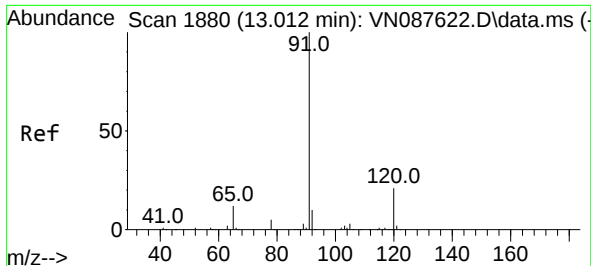
Tgt Ion: 75 Resp: 105638

Ion Ratio Lower Upper

75 100

77 1.4 89.1 267.4#

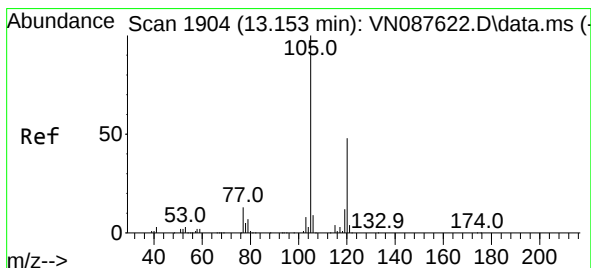
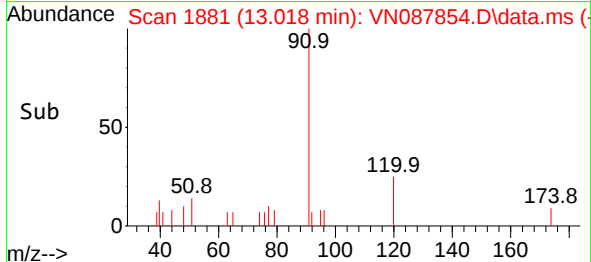
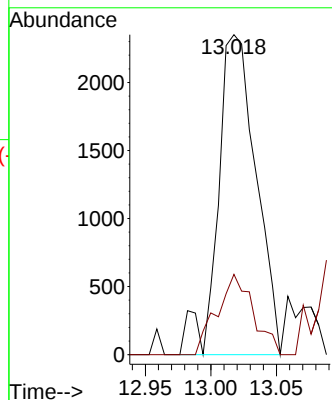
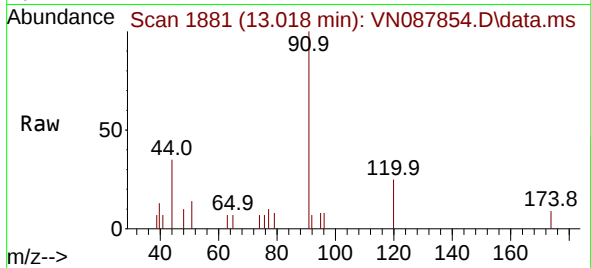




#78
n-propylbenzene
Concen: 0.258 ug/l
RT: 13.018 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

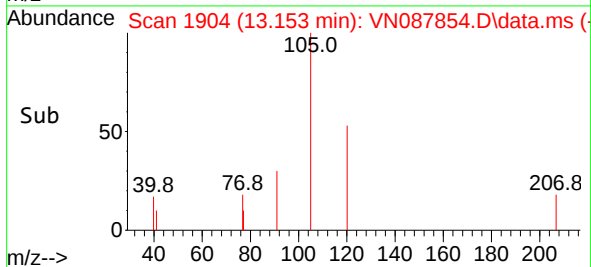
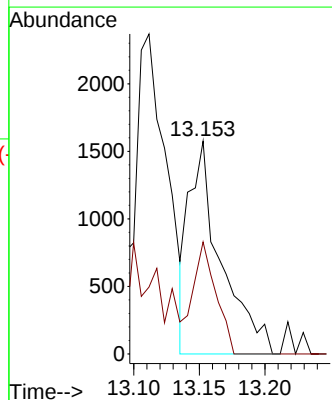
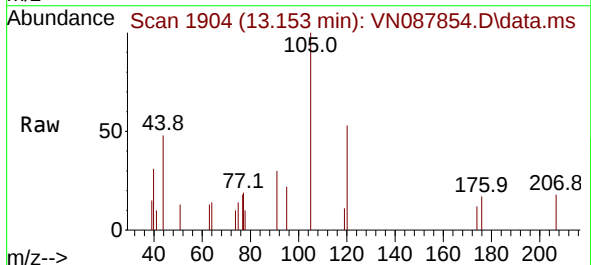
Instrument :
MSVOA_N
ClientSampleId :

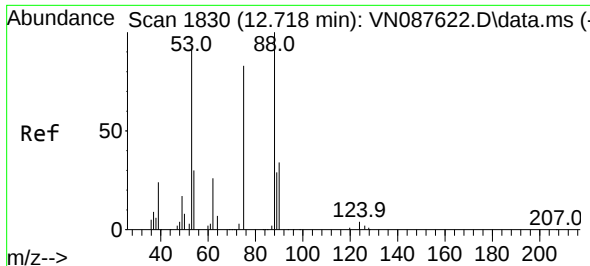
Tgt Ion: 91 Resp: 4764
Ion Ratio Lower Upper
91 100
120 23.8 10.7 32.1



#80
1,3,5-Trimethylbenzene
Concen: 0.211 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion:105 Resp: 2691
Ion Ratio Lower Upper
105 100
120 37.9 23.2 69.6

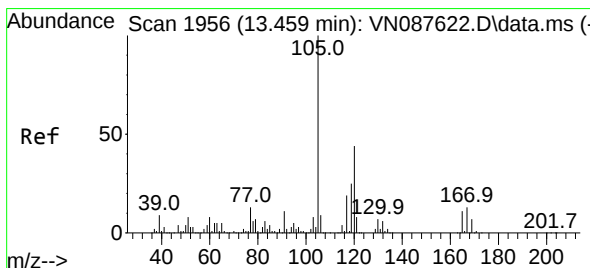
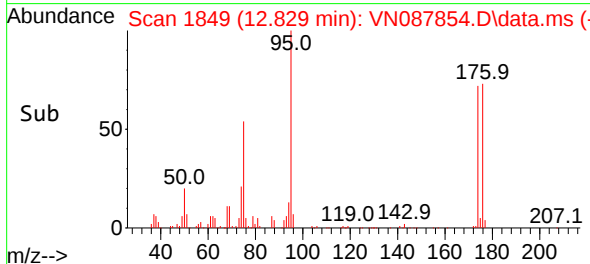
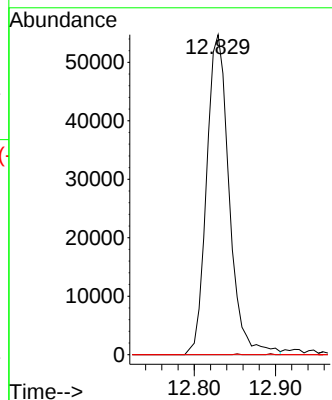
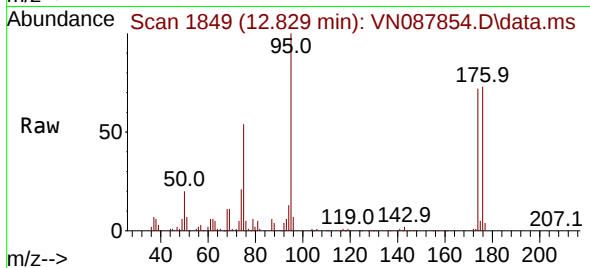




#81
trans-1,4-Dichloro-2-butene
Concen: 64.246 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

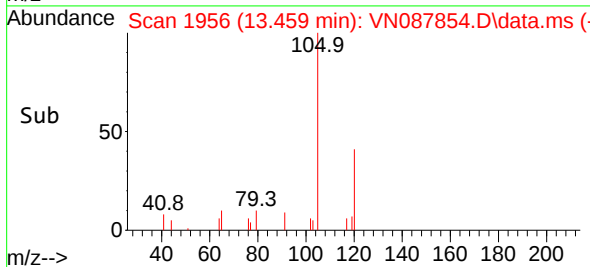
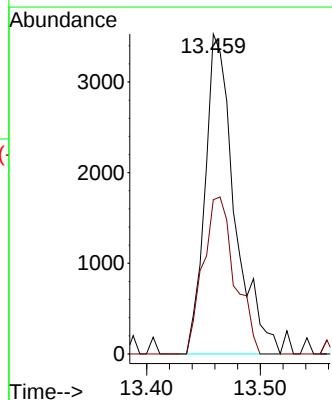
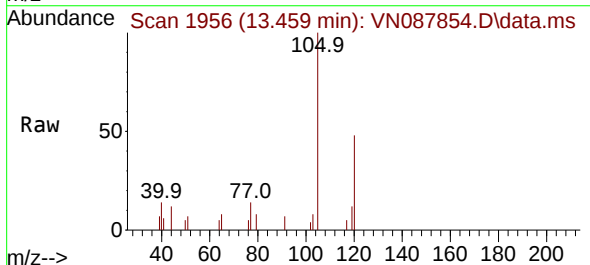
Instrument :
MSVOA_N
ClientSampleId :

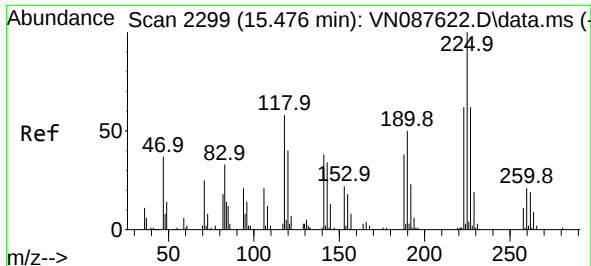
Tgt Ion: 75 Resp: 105638
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.500 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

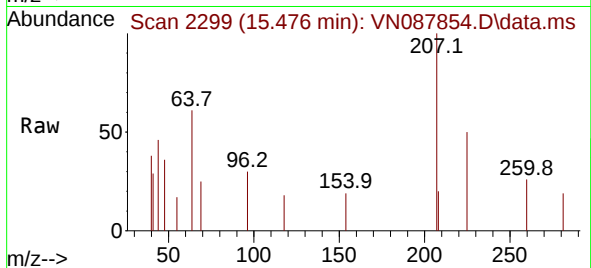
Tgt Ion: 105 Resp: 6366
Ion Ratio Lower Upper
105 100
120 52.8 22.0 66.0



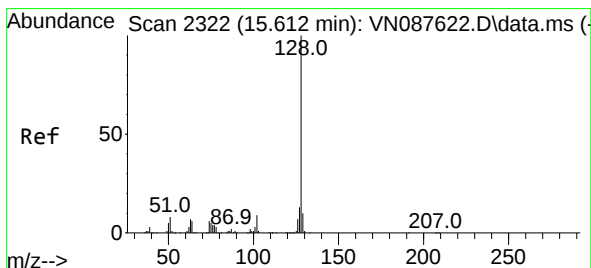
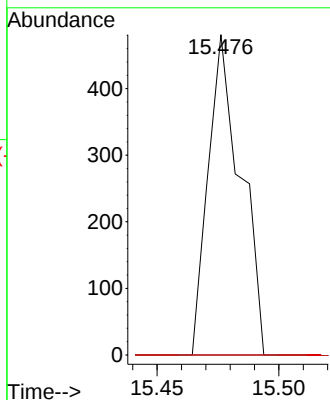
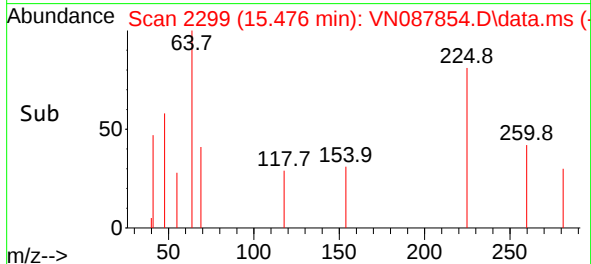


#94
Hexachlorobutadiene
Concen: 0.315 ug/l
RT: 15.476 min Scan# 211
Delta R.T. -0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

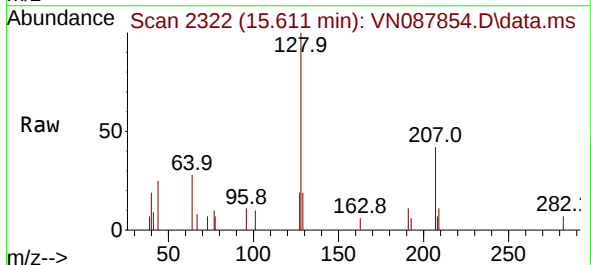
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:225 Resp: 445
Ion Ratio Lower Upper
225 100
223 0.0 32.0 96.2#
227 0.0 32.1 96.5#



#95
Naphthalene
Concen: 0.398 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50



Tgt Ion:128 Resp: 5587
Ion Ratio Lower Upper
128 100
127 9.3 10.6 15.8#
129 14.0 8.6 12.8#

