

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087860.D
 Acq On : 16 Sep 2025 18:58
 Operator : JC\MD
 Sample : Q3021-03 200X
 Misc : 1.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 01:27:59 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

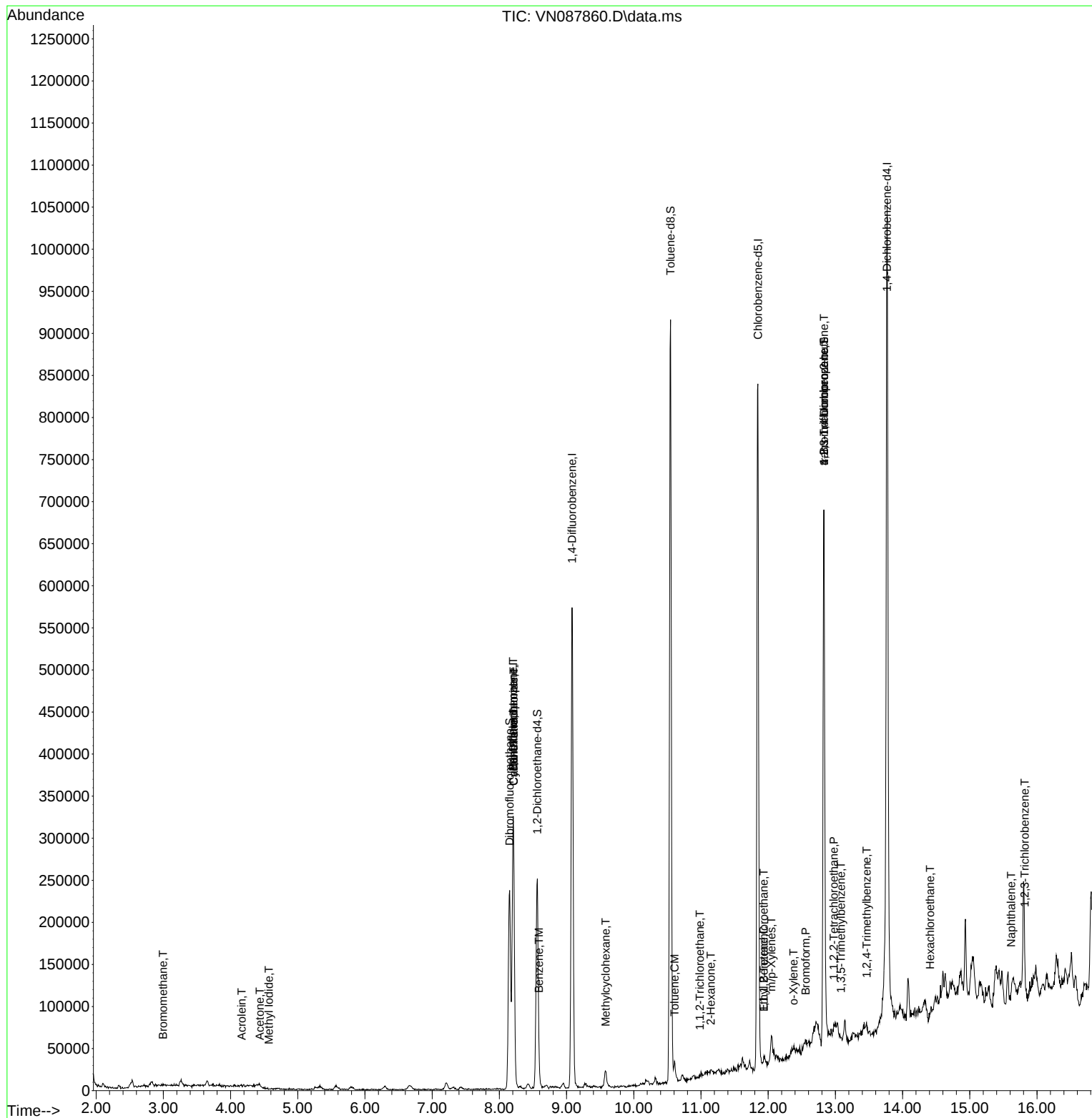
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	223545	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	489022	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	472513	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	236206	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	201953	44.093	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.180%
35) Dibromofluoromethane	8.153	113	170635	48.329	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.660%
50) Toluene-d8	10.547	98	616540	46.655	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.300%
62) 4-Bromofluorobenzene	12.829	95	231438	49.246	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.500%
Target Compounds						
					Qvalue	
5) Bromomethane	2.995	94	799	0.409	ug/l #	54
10) Methyl Iodide	4.571	142	67	6.835	ug/l #	38
13) Acrolein	4.165	56	202	0.207	ug/l #	1
16) Acetone	4.436	43	1520	0.610	ug/l #	47
20) Methylene Chloride	5.253	84	477	Below Cal	#	42
31) Cyclohexane	8.212	56	9630	1.672	ug/l #	64
36) 1,1-Dichloropropene	8.206	75	20185	3.727	ug/l #	52
38) Carbon Tetrachloride	8.212	117	25784	4.821	ug/l #	15
39) Methylcyclohexane	9.582	83	8121	1.362	ug/l #	71
40) Benzene	8.588	78	5463	0.329	ug/l #	87
52) Toluene	10.606	92	7907	0.768	ug/l	95
55) 1,1,2-Trichloroethane	10.982	97	1515	0.380	ug/l #	14
59) 2-Hexanone	11.147	43	1528	0.347	ug/l #	26
66) 1,1,1,2-Tetrachloroethane	11.935	131	826	0.212	ug/l #	49
67) Ethyl Benzene	11.935	91	8523	0.419	ug/l	91
68) m/p-Xylenes	12.047	106	7352	0.985	ug/l	99
69) o-Xylene	12.376	106	2408	0.329	ug/l	66
71) Bromoform	12.559	173	908	0.303	ug/l #	95
75) 1,1,2,2-Tetrachloroethane	12.976	83	6512	0.991	ug/l #	28
76) 1,2,3-Trichloropropane	12.829	75	129968	23.464	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.082	105	3404	0.210	ug/l	72
81) trans-1,4-Dichloro-2-b...	12.829	75	129968	62.117	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.465	105	11310	0.698	ug/l	96
90) Hexachloroethane	14.412	117	1369	0.435	ug/l	62
95) Naphthalene	15.617	128	9469	0.529	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.817	180	1734	0.351	ug/l #	74

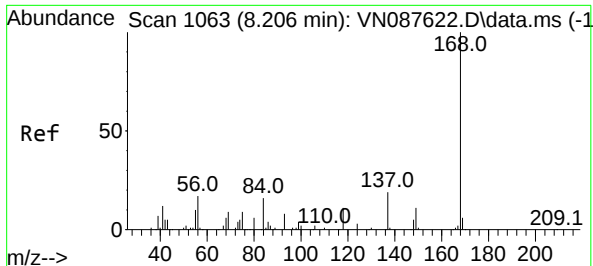
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : Q3021-03 200X
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MSVOA_N
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Quant Time: Sep 17 01:27:59 2025
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Quant Title : SW846 8260
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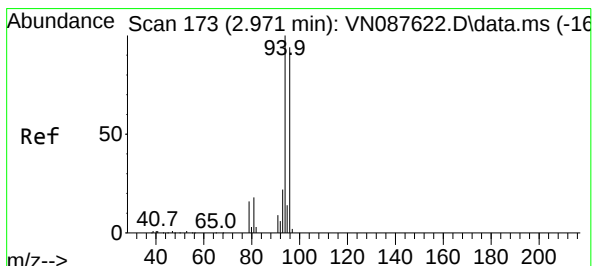
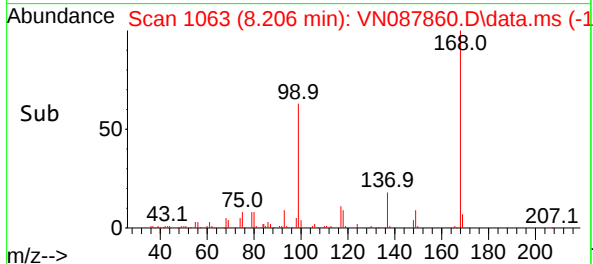
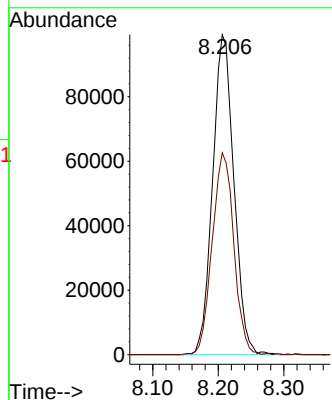
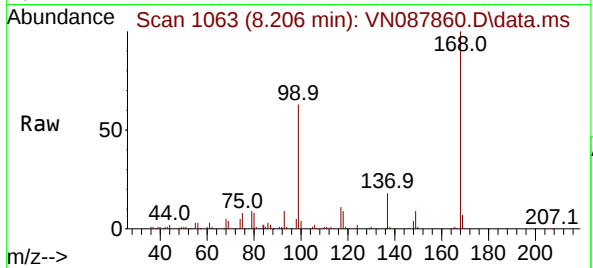




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

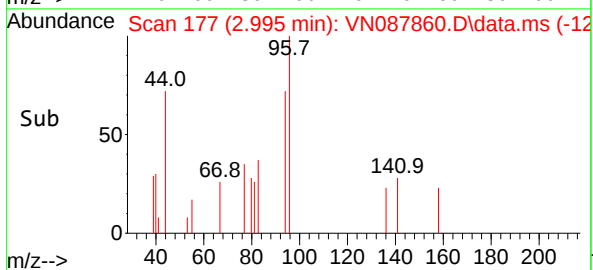
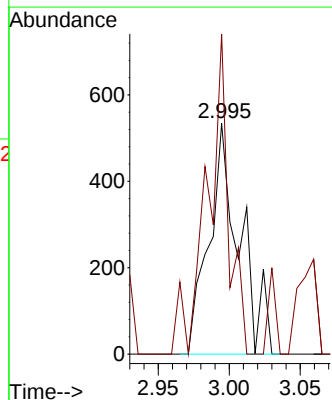
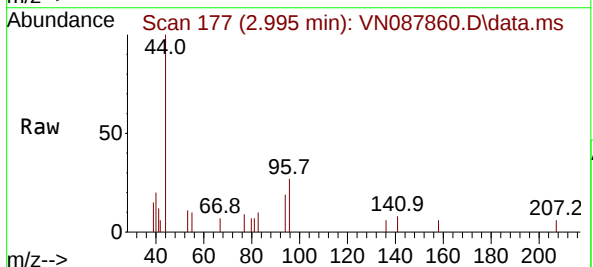
Instrument :
MSVOA_N
ClientSampleId :

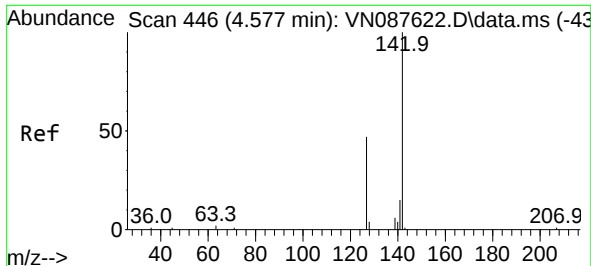
Tgt Ion:168 Resp: 223545
Ion Ratio Lower Upper
168 100
99 63.1 57.2 85.8



#5
Bromomethane
Concen: 0.409 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

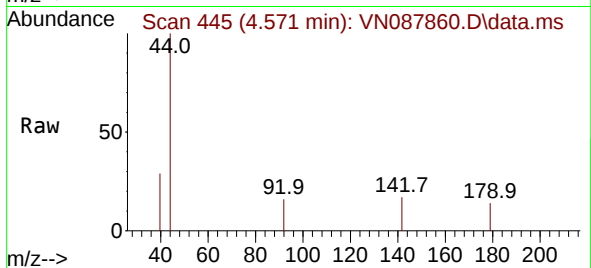
Tgt Ion: 94 Resp: 799
Ion Ratio Lower Upper
94 100
96 138.8 75.4 113.2#



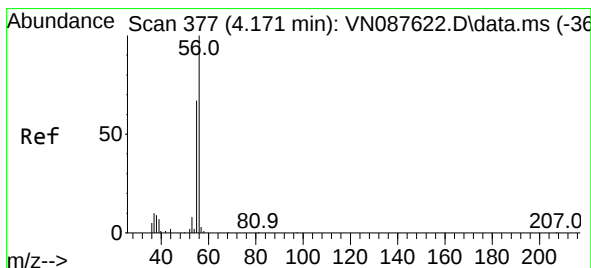
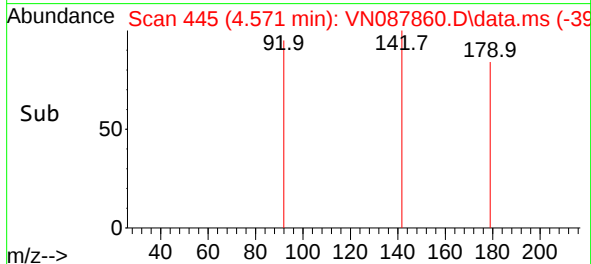
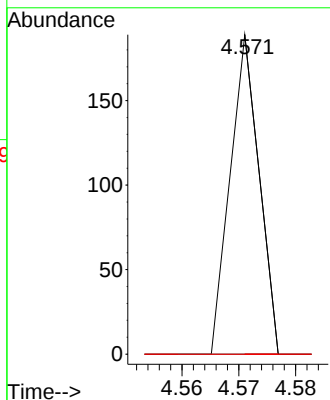


#10
Methyl Iodide
Concen: 6.835 ug/l
RT: 4.571 min Scan# 446
Delta R.T. -0.006 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Instrument :
MSVOA_N
ClientSampleId :

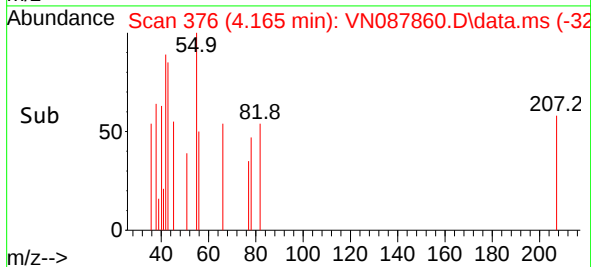
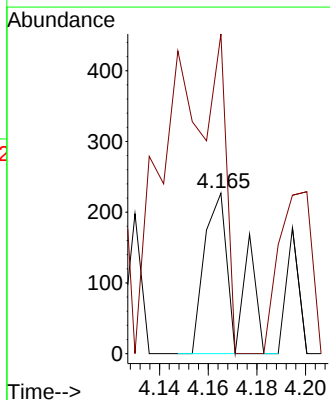
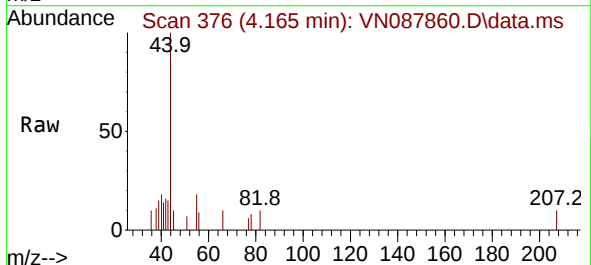


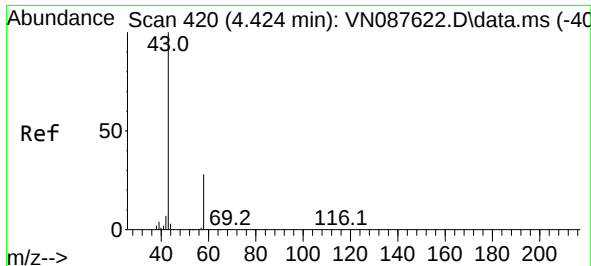
Tgt Ion:142 Resp: 67
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.207 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.006 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Tgt Ion: 56 Resp: 202
Ion Ratio Lower Upper
56 100
55 354.5 57.3 85.9#

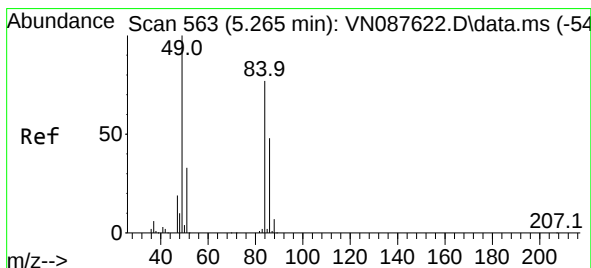
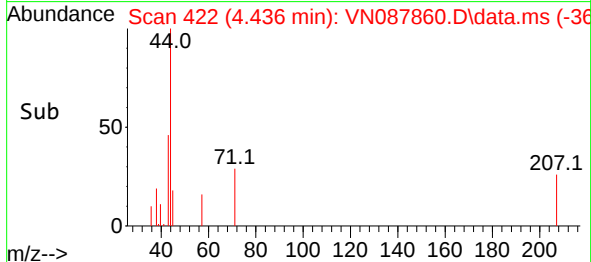
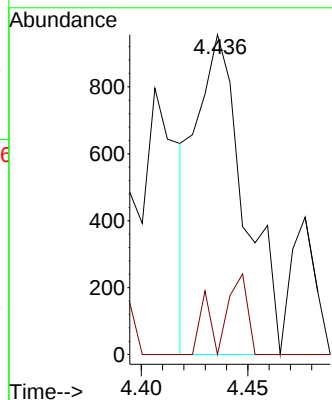
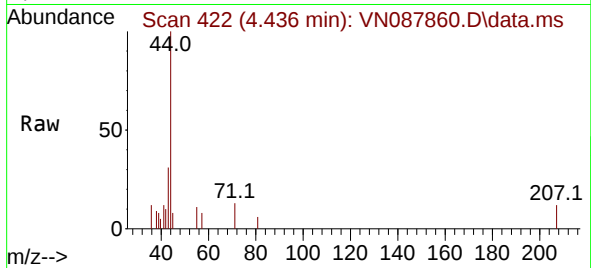




#16
Acetone
Concen: 0.610 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

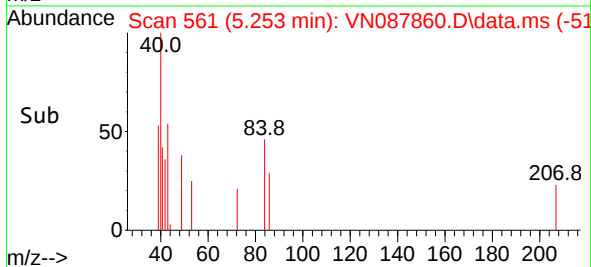
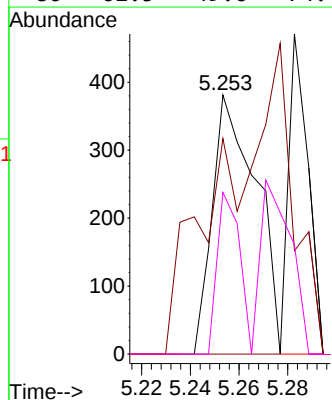
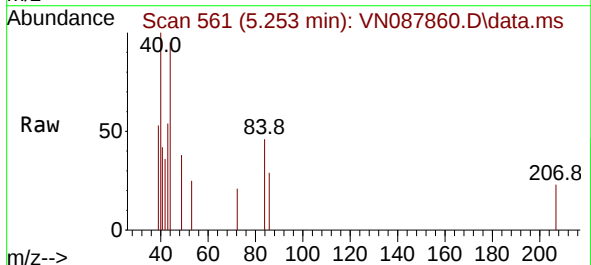
Instrument :
MSVOA_N
ClientSampleId :

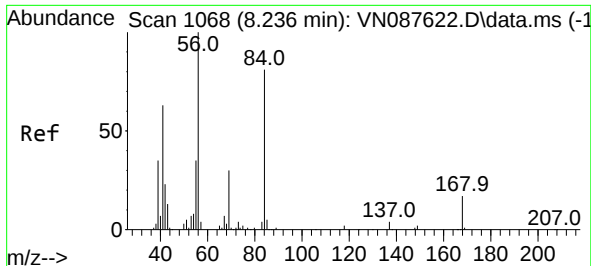
Tgt Ion: 43 Resp: 1520
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.253 min Scan# 561
Delta R.T. -0.012 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

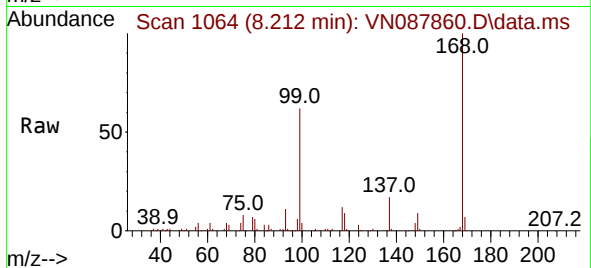
Tgt Ion: 84 Resp: 477
Ion Ratio Lower Upper
84 100
49 32.3 103.4 155.2#
51 0.0 33.8 50.8#
86 62.5 49.6 74.4



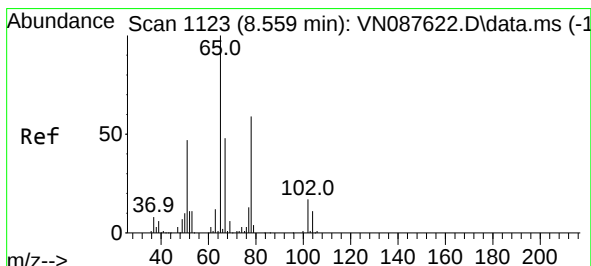
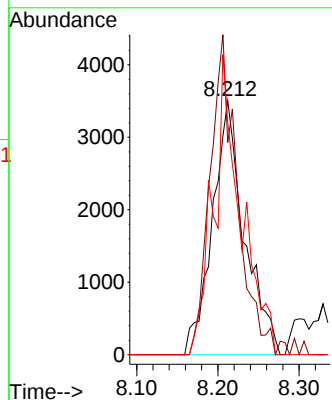
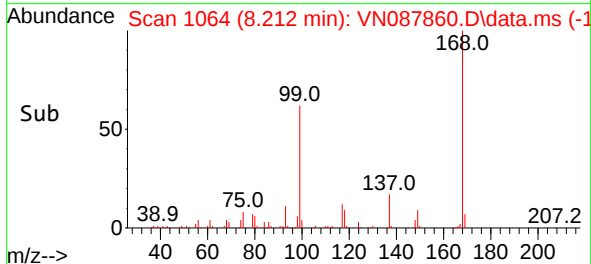


#31
Cyclohexane
Concen: 1.672 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Instrument :
MSVOA_N
ClientSampleId :

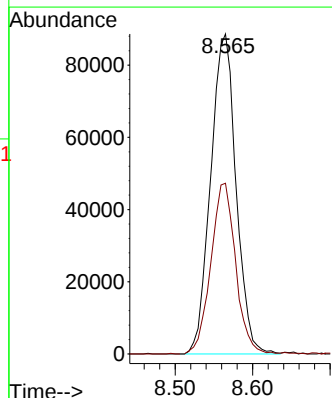
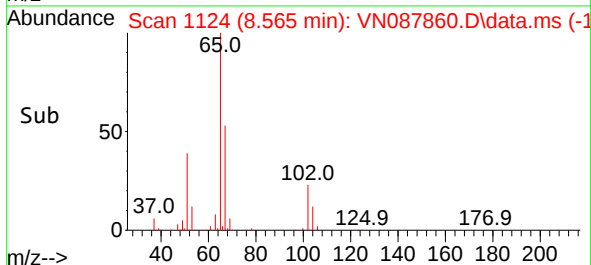
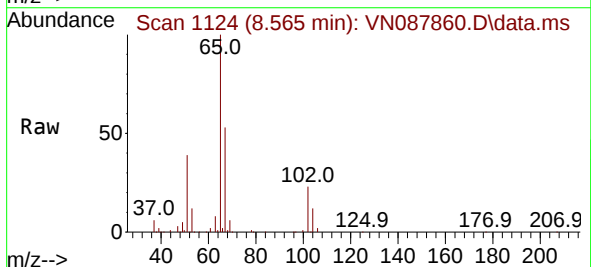


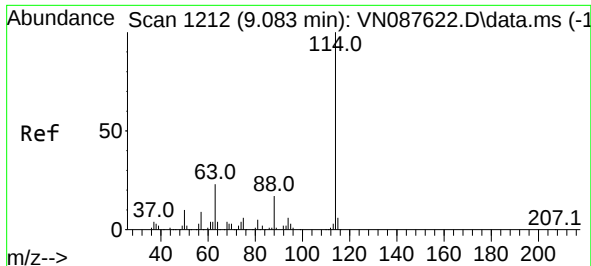
Tgt Ion: 56 Resp: 9630
Ion Ratio Lower Upper
56 100
69 83.5 23.7 35.5#
84 91.5 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 44.093 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

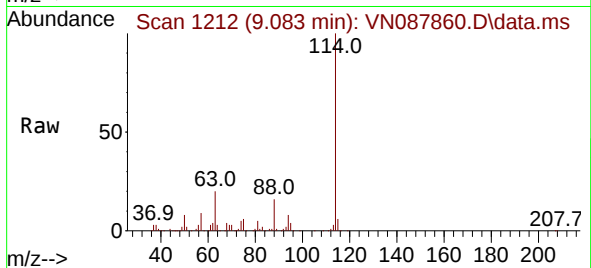
Tgt Ion: 65 Resp: 201953
Ion Ratio Lower Upper
65 100
67 52.0 0.0 100.0



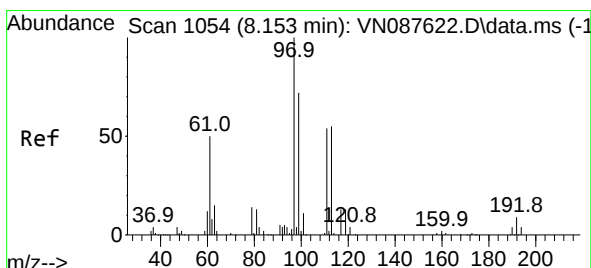
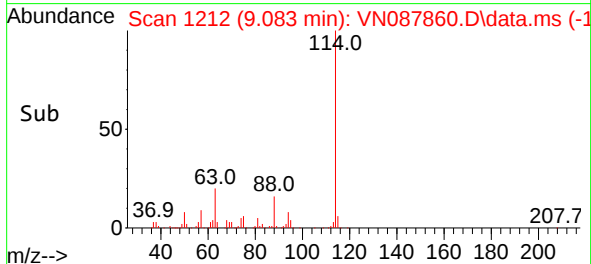
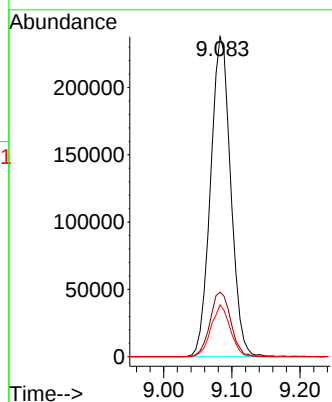


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Instrument :
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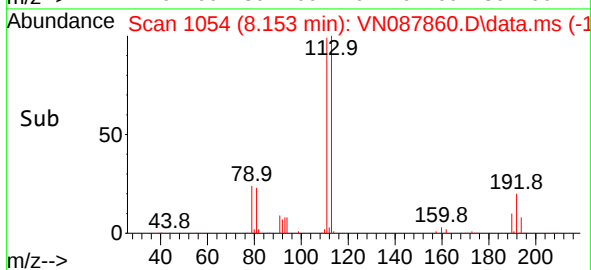
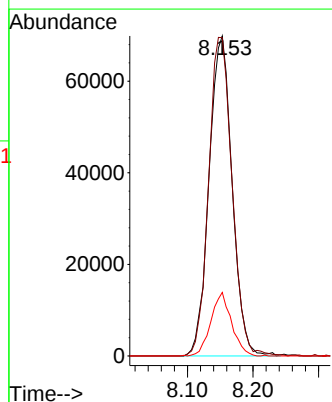
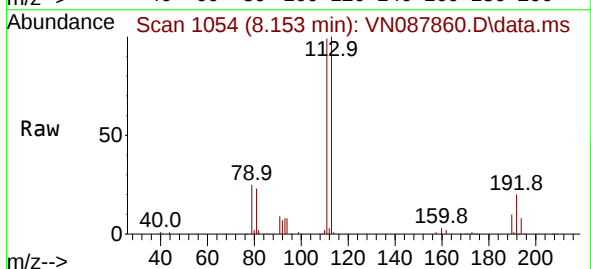


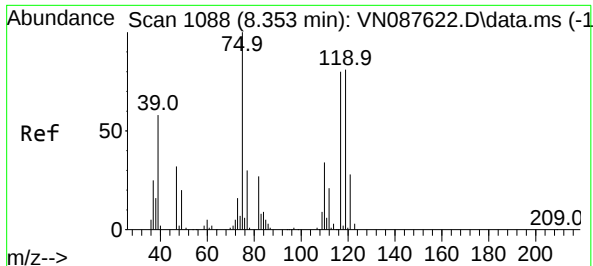
Tgt Ion:114 Resp: 489022
Ion Ratio Lower Upper
114 100
63 20.1 0.0 45.2
88 16.2 0.0 33.4



#35
Dibromofluoromethane
Concen: 48.329 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Tgt Ion:113 Resp: 170635
Ion Ratio Lower Upper
113 100
111 101.2 82.8 124.2
192 17.8 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.727 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

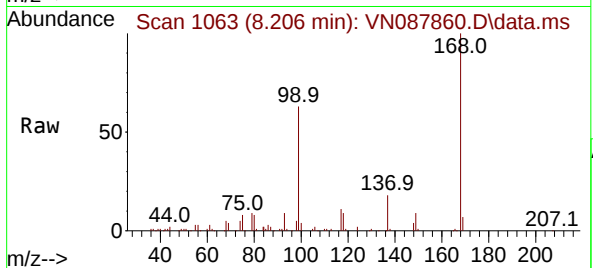
Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

Instrument :

MSVOA_N

ClientSampleId :



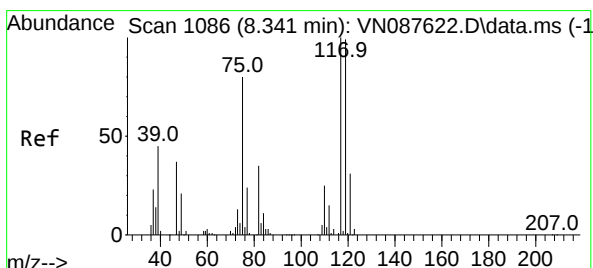
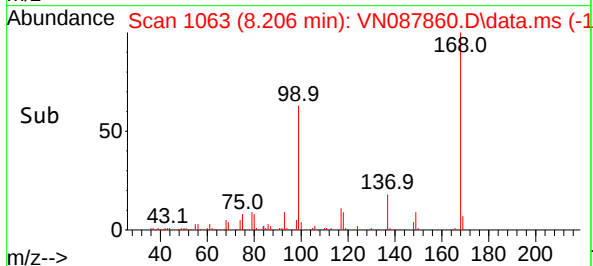
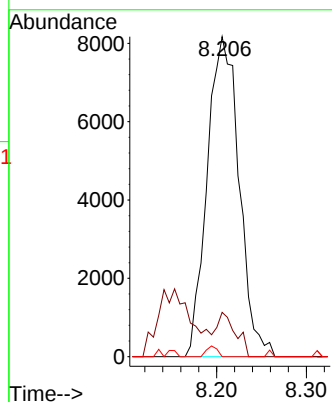
Tgt Ion: 75 Resp: 20185

Ion Ratio Lower Upper

75 100

110 8.1 15.9 47.6#

77 1.1 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.821 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.129 min

Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

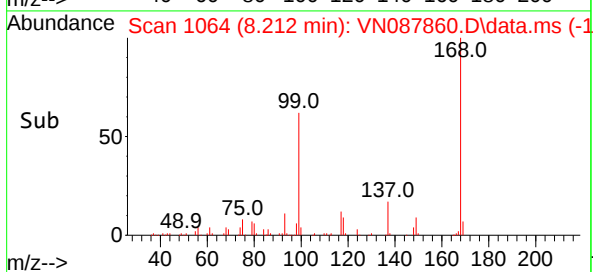
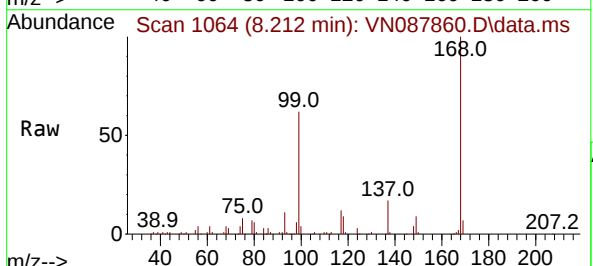
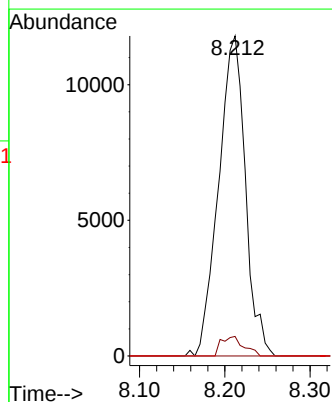
Tgt Ion: 117 Resp: 25784

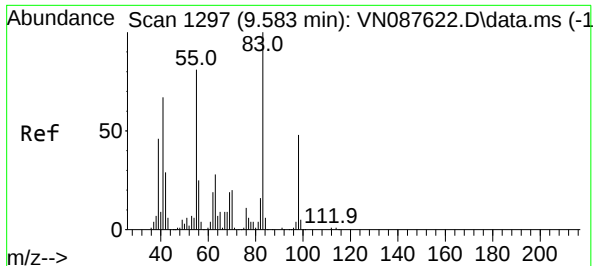
Ion Ratio Lower Upper

117 100

119 6.1 79.0 118.6#

121 0.0 25.0 37.6#





#39

Methylcyclohexane

Concen: 1.362 ug/l

RT: 9.582 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN087860.D

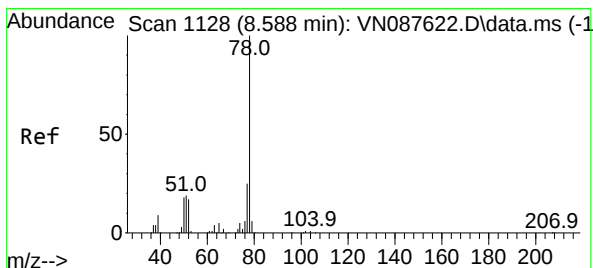
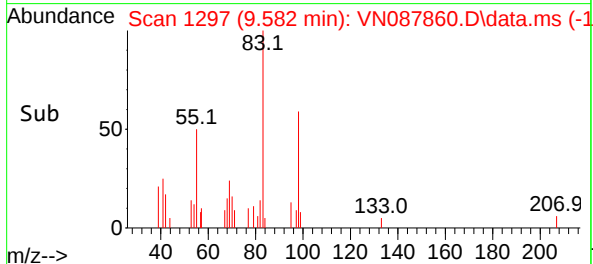
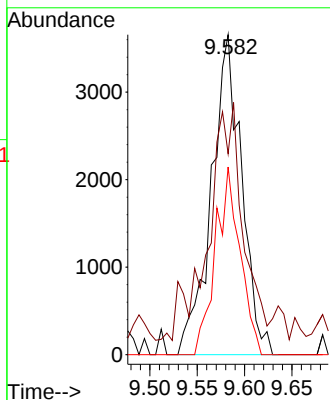
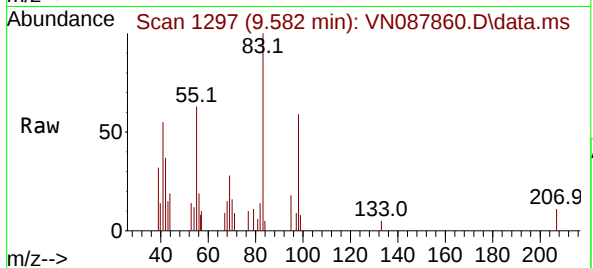
Acq: 16 Sep 2025 18:58

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	83	Resp:	8121
Ion	Ratio	Lower	Upper
83	100		
55	47.6	64.6	96.8#
98	58.7	38.4	57.6#



#40

Benzene

Concen: 0.329 ug/l

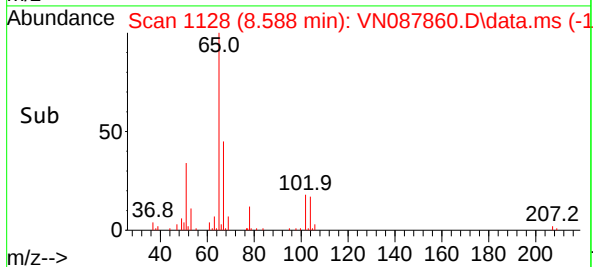
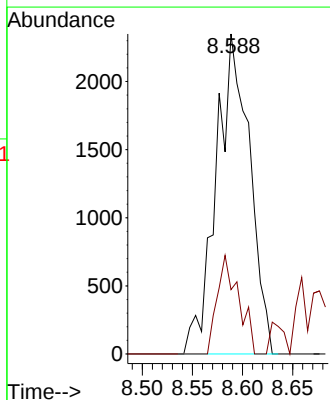
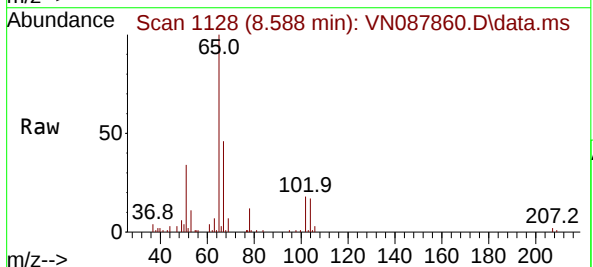
RT: 8.588 min Scan# 1128

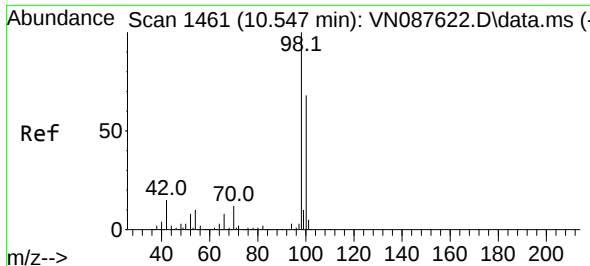
Delta R.T. -0.000 min

Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

Tgt Ion:	78	Resp:	5463
Ion	Ratio	Lower	Upper
78	100		
77	18.4	19.7	29.5#

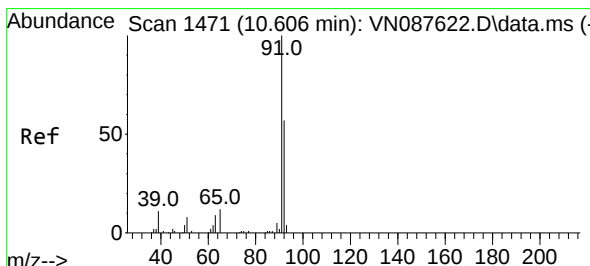
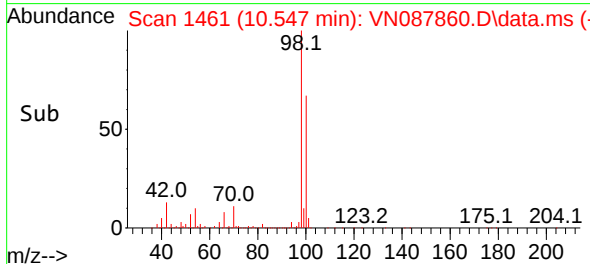
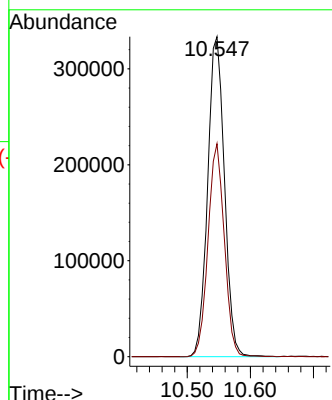
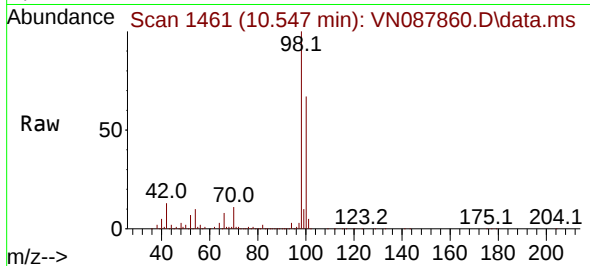




#50
Toluene-d8
Concen: 46.655 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

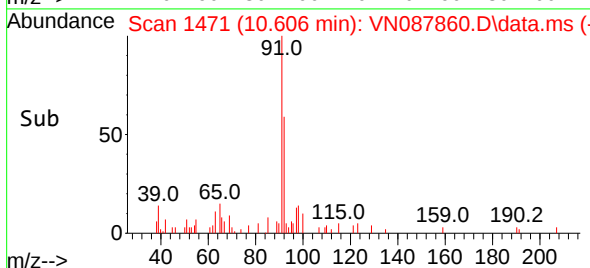
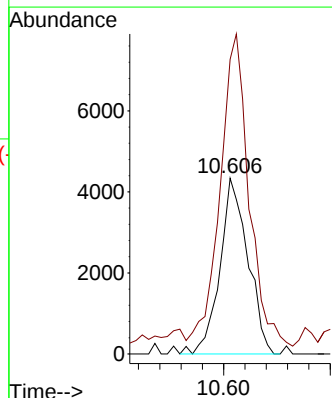
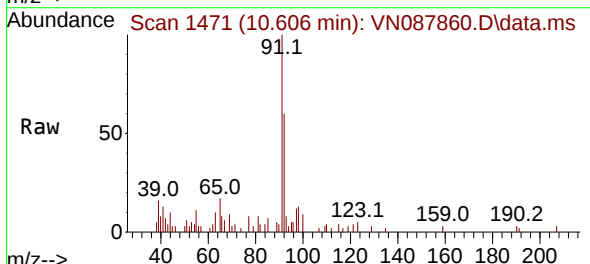
Instrument :
MSVOA_N
ClientSampleId :

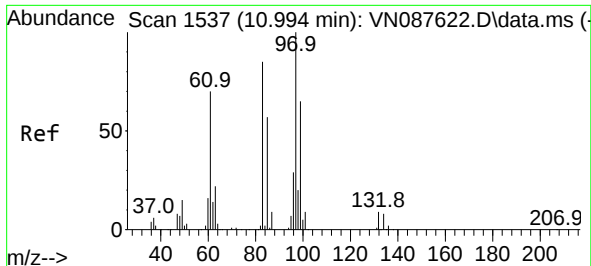
Tgt Ion: 98 Resp: 616540
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#52
Toluene
Concen: 0.768 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

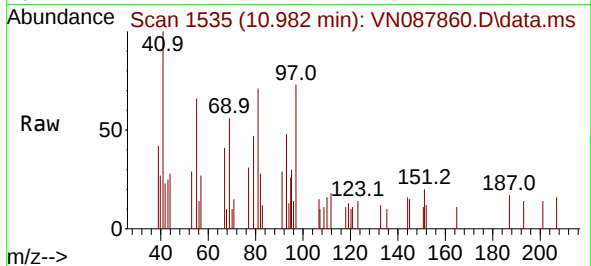
Tgt Ion: 92 Resp: 7907
Ion Ratio Lower Upper
92 100
91 182.9 140.4 210.6



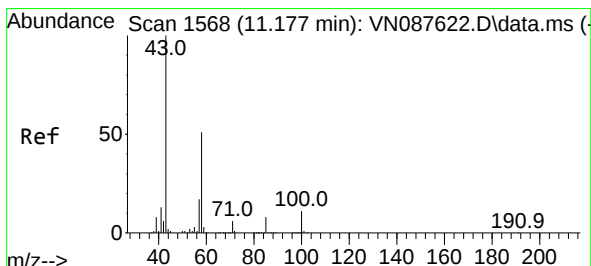
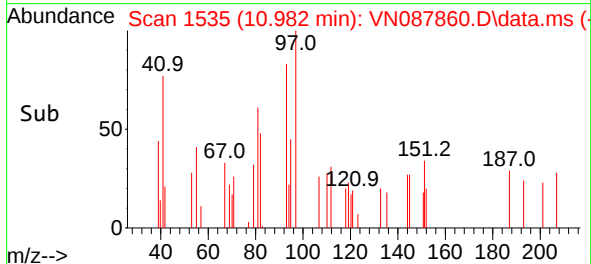
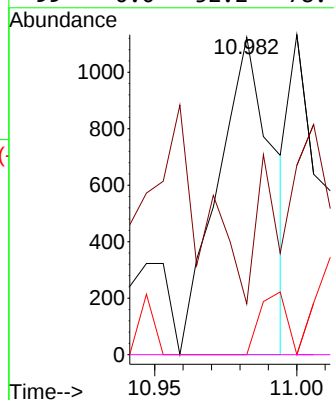


#55
1,1,2-Trichloroethane
Concen: 0.380 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. -0.012 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Instrument :
MSVOA_N
ClientSampleId :

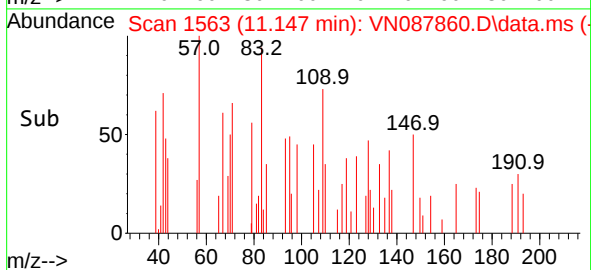
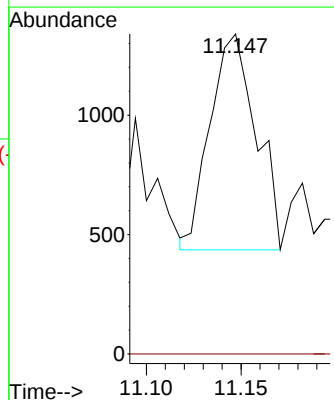
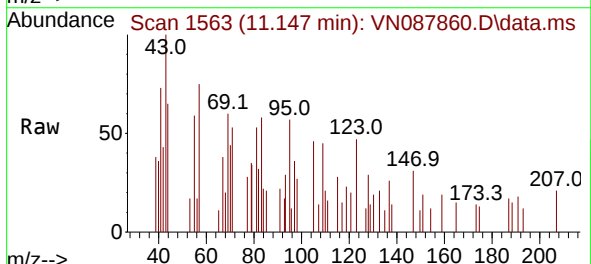


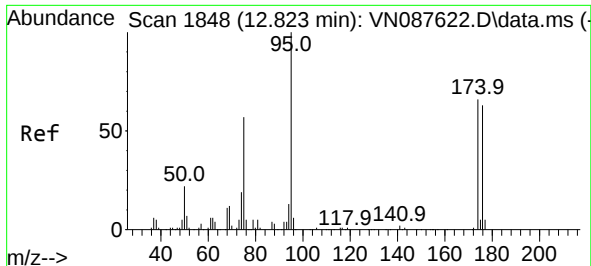
Tgt Ion:	97	Resp:	1515
Ion	Ratio	Lower	Upper
97	100		
83	0.0	68.2	102.4#
85	0.0	45.5	68.3#
99	0.0	52.2	78.4#



#59
2-Hexanone
Concen: 0.347 ug/l
RT: 11.147 min Scan# 1563
Delta R.T. -0.029 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Tgt Ion:	43	Resp:	1528
Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.9	77.8#

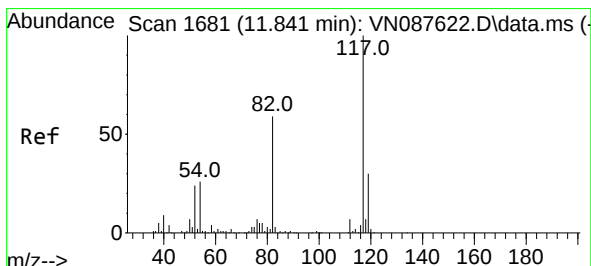
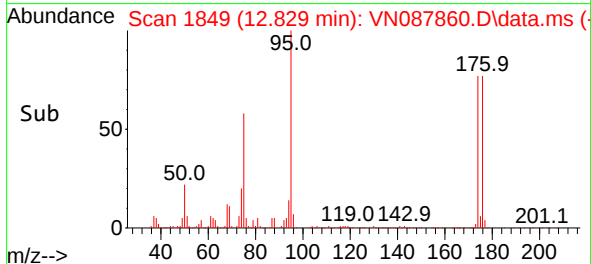
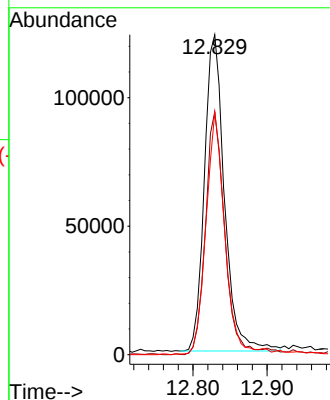
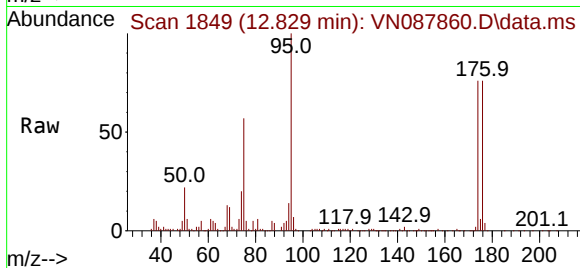




#62
4-Bromofluorobenzene
Concen: 49.246 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

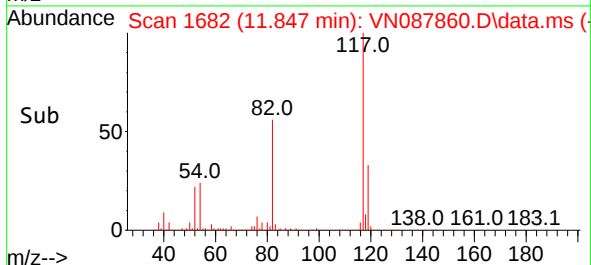
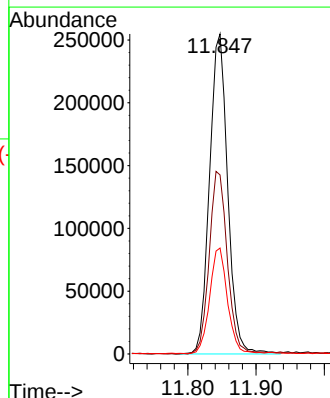
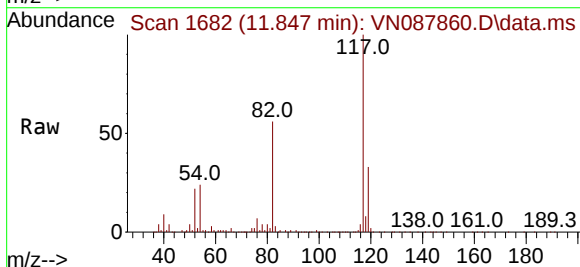
Instrument :
MSVOA_N
ClientSampleId :

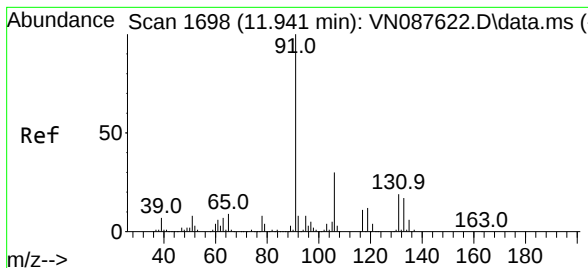
Tgt Ion: 95 Resp: 231438
Ion Ratio Lower Upper
95 100
174 73.1 0.0 138.4
176 72.5 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Tgt Ion: 117 Resp: 472513
Ion Ratio Lower Upper
117 100
82 55.9 47.4 71.2
119 32.9 24.3 36.5

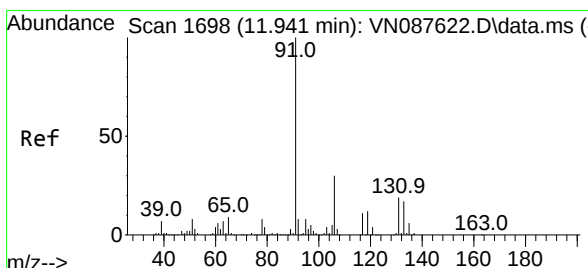
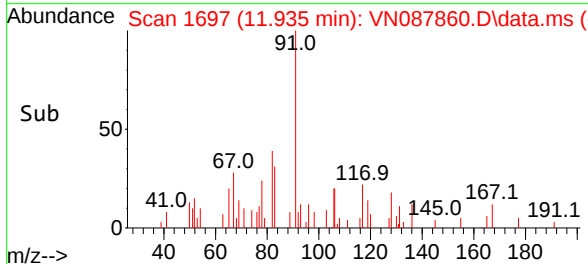
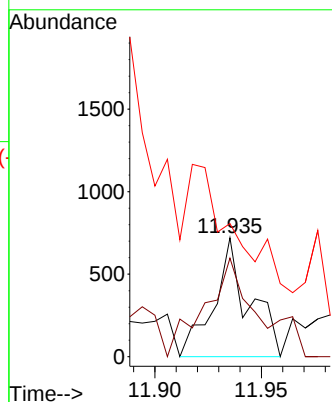
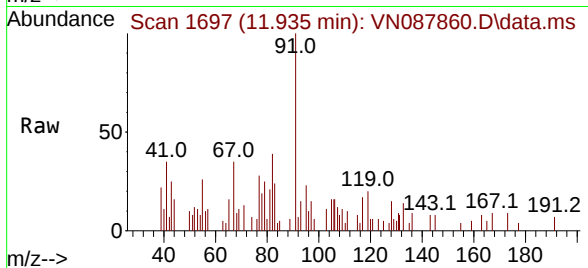




#66
 1,1,1,2-Tetrachloroethane
 Concen: 0.212 ug/l
 RT: 11.935 min Scan# 1697
 Delta R.T. -0.006 min
 Lab File: VN087860.D
 Acq: 16 Sep 2025 18:58

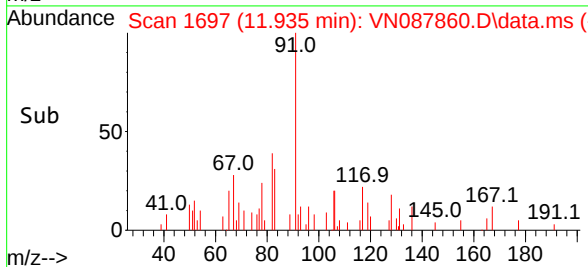
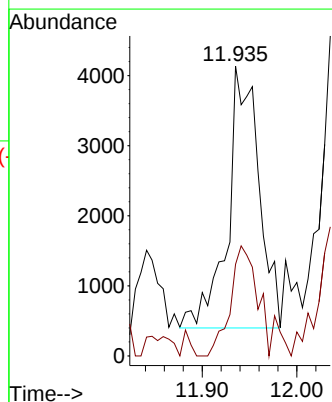
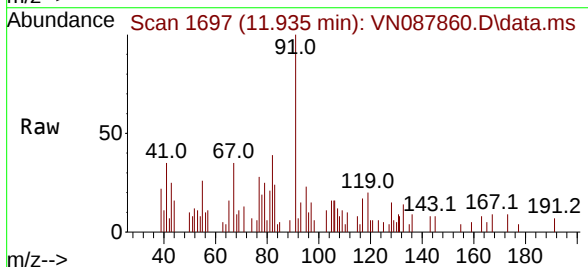
Instrument :
 MSVOA_N
 ClientSampleId :

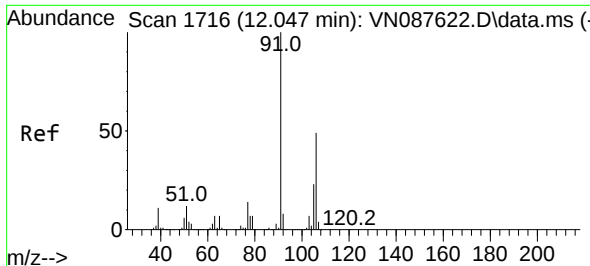
Tgt Ion:131 Resp: 826
 Ion Ratio Lower Upper
 131 100
 133 125.2 48.0 144.0
 119 0.0 32.6 97.7#



#67
 Ethyl Benzene
 Concen: 0.419 ug/l
 RT: 11.935 min Scan# 1697
 Delta R.T. -0.006 min
 Lab File: VN087860.D
 Acq: 16 Sep 2025 18:58

Tgt Ion: 91 Resp: 8523
 Ion Ratio Lower Upper
 91 100
 106 35.0 24.1 36.1

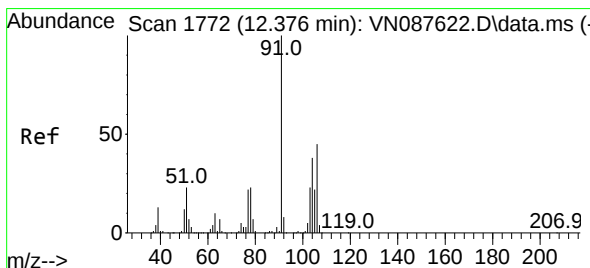
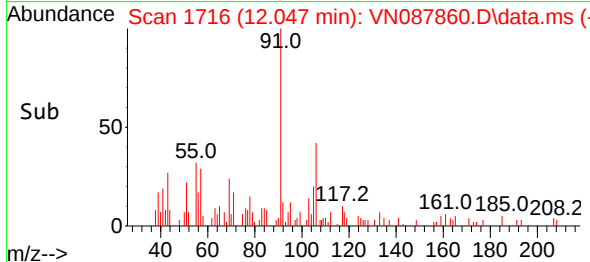
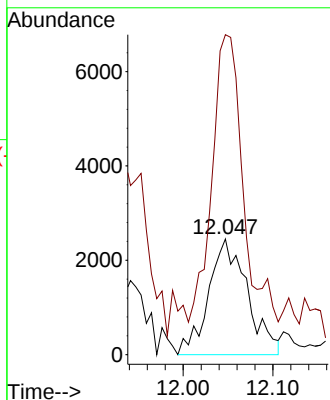
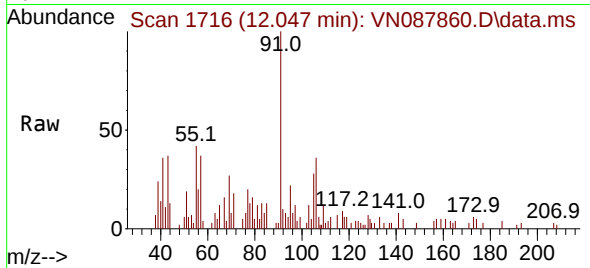




#68
m/p-Xylenes
Concen: 0.985 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

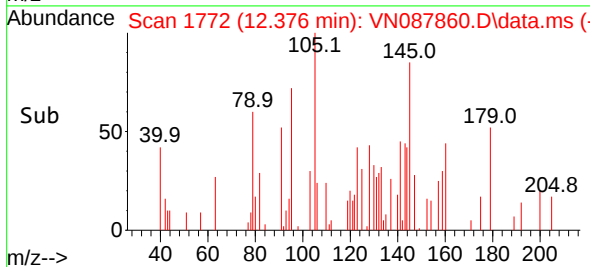
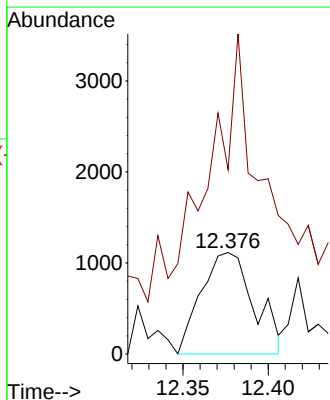
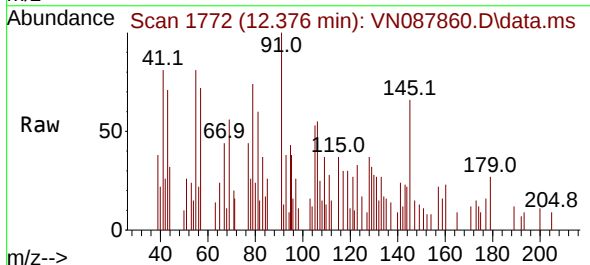
Instrument :
MSVOA_N
ClientSampleId :

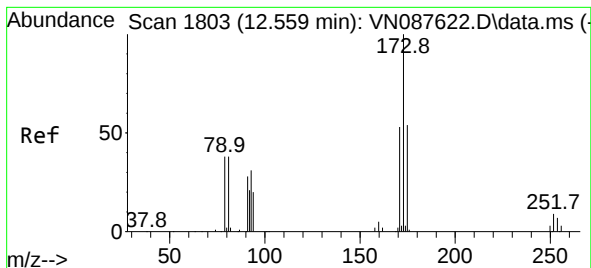
Tgt Ion:106 Resp: 7352
Ion Ratio Lower Upper
106 100
91 213.7 169.3 253.9



#69
o-Xylene
Concen: 0.329 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Tgt Ion:106 Resp: 2408
Ion Ratio Lower Upper
106 100
91 278.3 111.4 334.2





#71

Bromoform

Concen: 0.303 ug/l

RT: 12.559 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

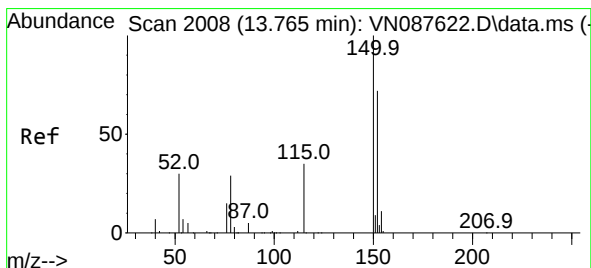
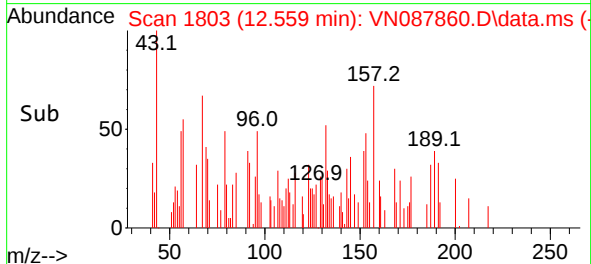
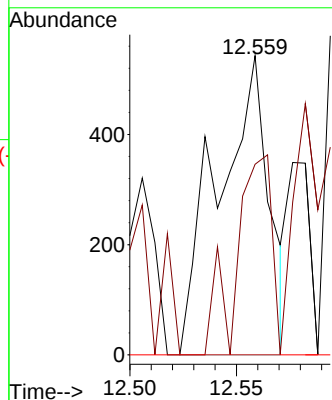
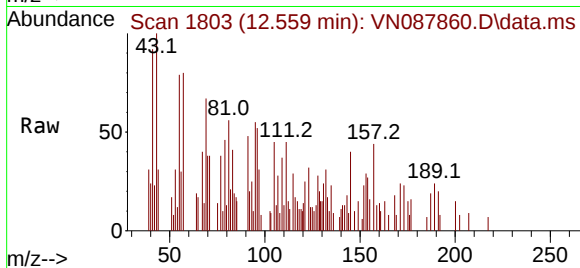
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 908

Ion	Ratio	Lower	Upper
173	100		
175	46.4	24.9	74.6
254	0.0	0.1	0.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

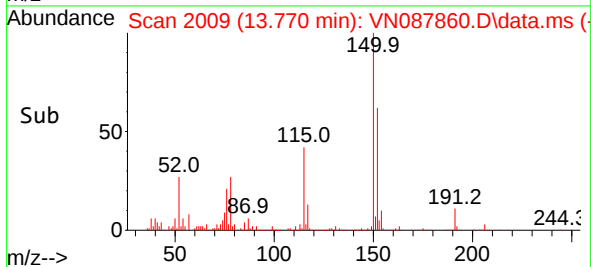
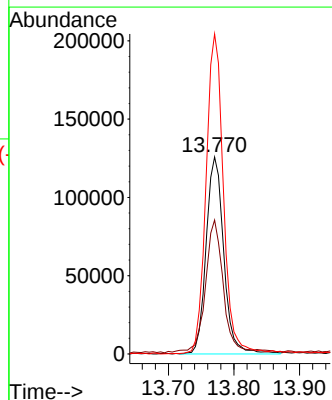
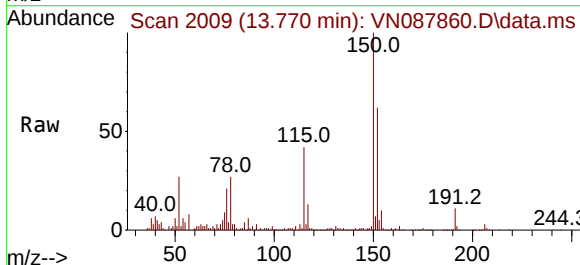
Delta R.T. 0.006 min

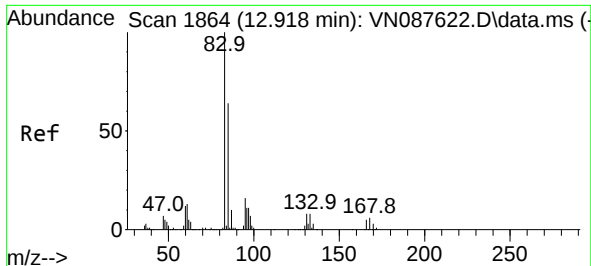
Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

Tgt Ion:152 Resp: 236206

Ion	Ratio	Lower	Upper
152	100		
115	67.5	32.3	96.8
150	159.0	0.0	351.0

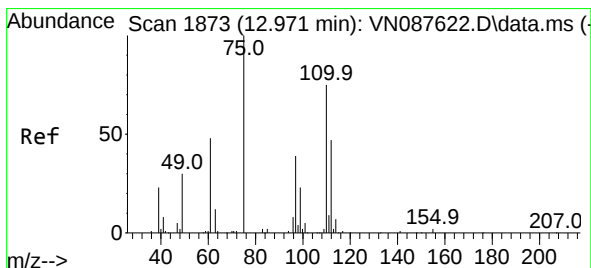
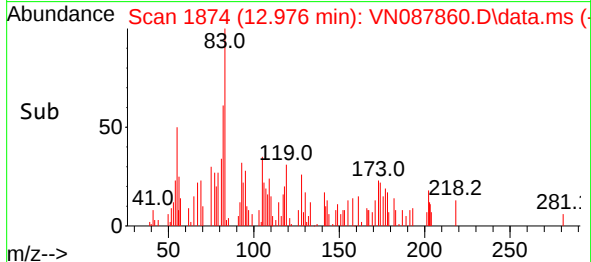
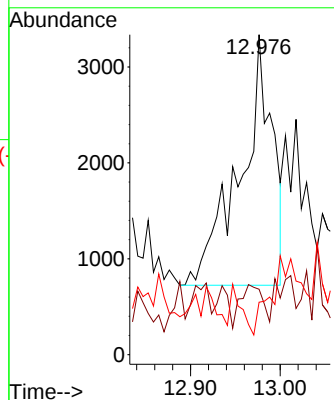
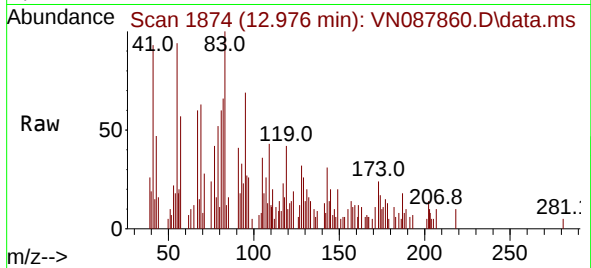




#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.991 ug/l
 RT: 12.976 min Scan# 1874
 Delta R.T. 0.059 min
 Lab File: VN087860.D
 Acq: 16 Sep 2025 18:58

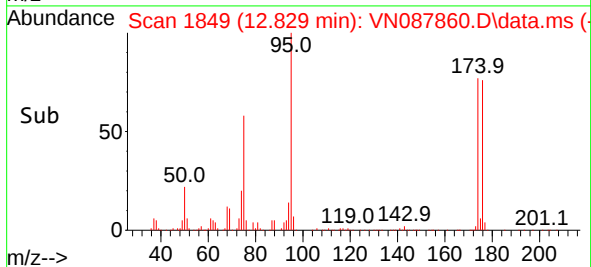
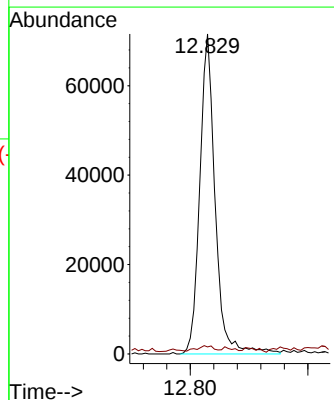
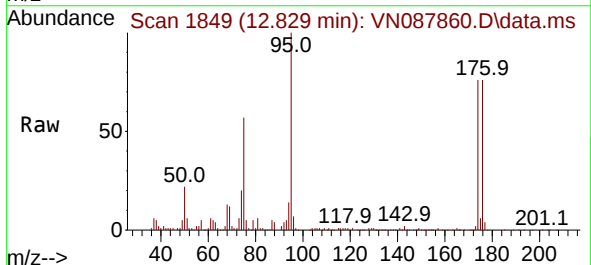
Instrument :
 MSVOA_N
 ClientSampleId :

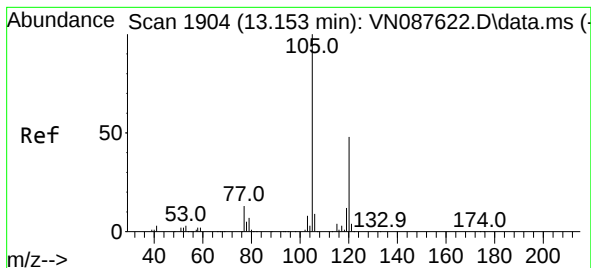
Tgt Ion: 83 Resp: 6512
 Ion Ratio Lower Upper
 83 100
 131 12.0 4.8 14.4
 85 0.0 32.1 96.3#



#76
 1,2,3-Trichloropropane
 Concen: 23.464 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087860.D
 Acq: 16 Sep 2025 18:58

Tgt Ion: 75 Resp: 129968
 Ion Ratio Lower Upper
 75 100
 77 1.7 89.1 267.4#





#80

1,3,5-Trimethylbenzene

Concen: 0.210 ug/l

RT: 13.082 min Scan# 11

Delta R.T. -0.071 min

Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

Instrument :

MSVOA_N

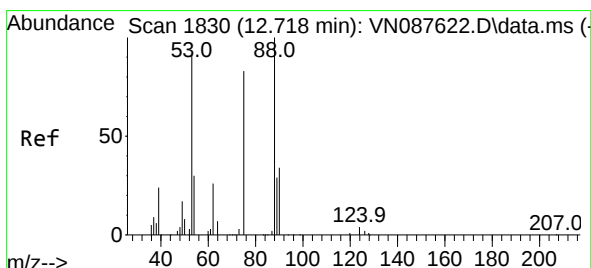
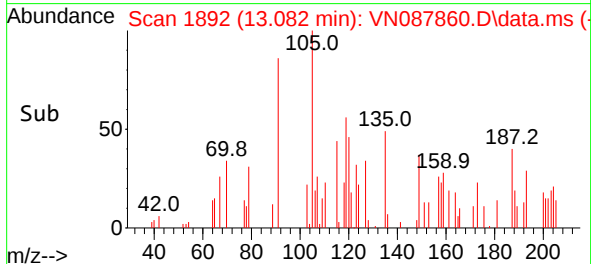
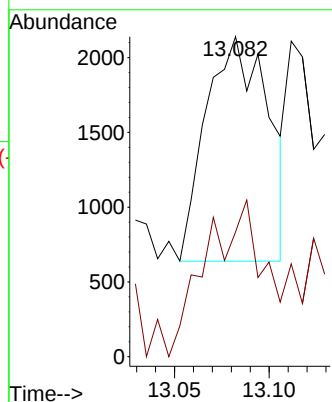
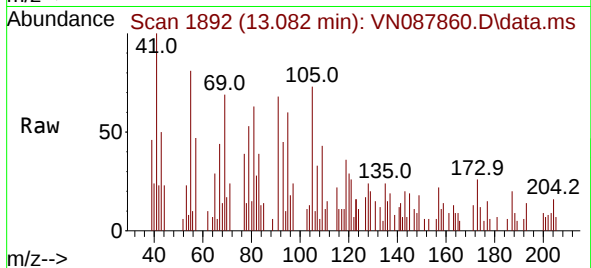
ClientSampleId :

Tgt Ion:105 Resp: 3404

Ion Ratio Lower Upper

105 100

120 65.0 23.2 69.6



#81

trans-1,4-Dichloro-2-butene

Concen: 62.117 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

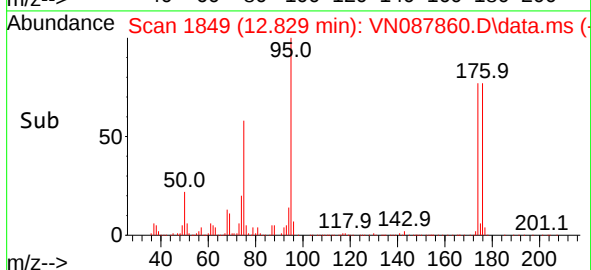
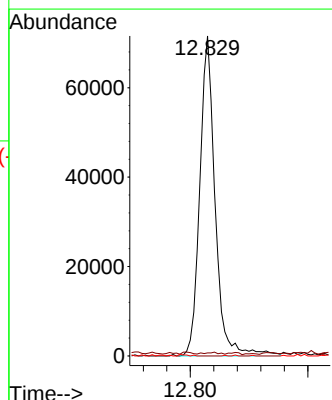
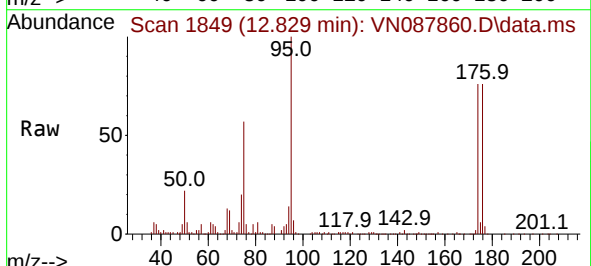
Tgt Ion: 75 Resp: 129968

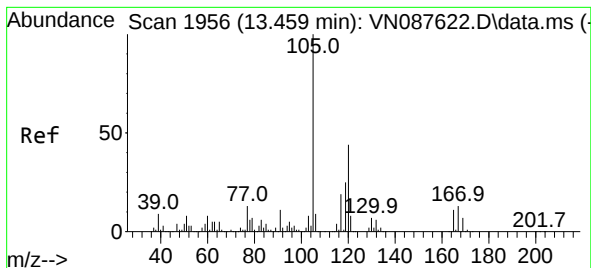
Ion Ratio Lower Upper

75 100

53 0.5 101.8 152.6#

89 0.0 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.698 ug/l

RT: 13.465 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VN087860.D

Acq: 16 Sep 2025 18:58

Instrument :

MSVOA_N

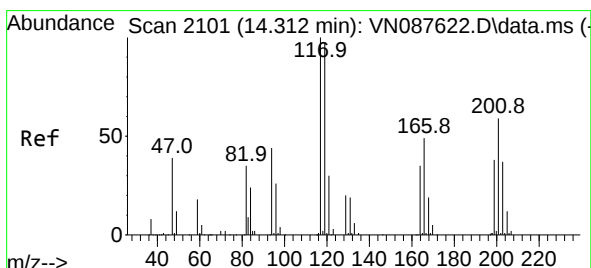
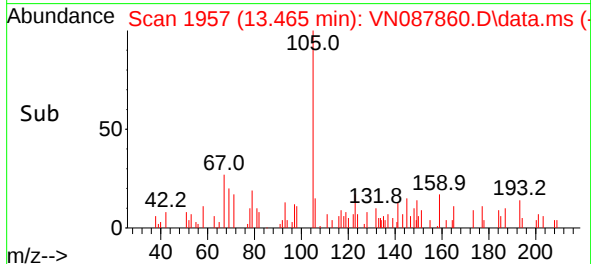
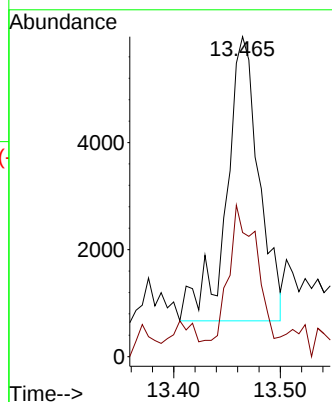
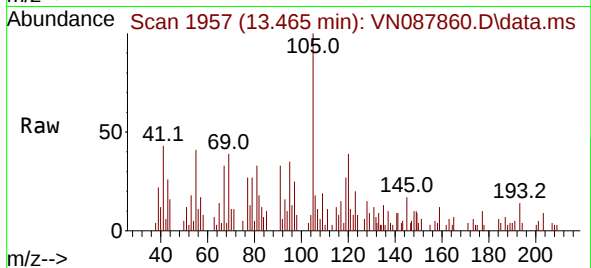
ClientSampleId :

Tgt Ion:105 Resp: 11310

Ion Ratio Lower Upper

105 100

120 41.3 22.0 66.0



#90

Hexachloroethane

Concen: 0.435 ug/l

RT: 14.412 min Scan# 2118

Delta R.T. 0.100 min

Lab File: VN087860.D

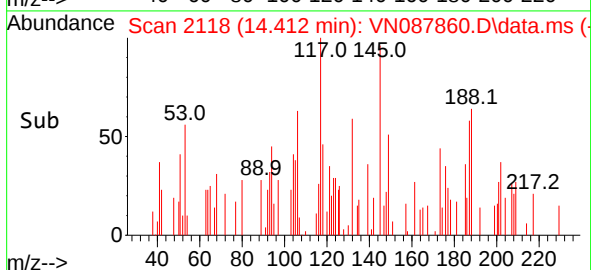
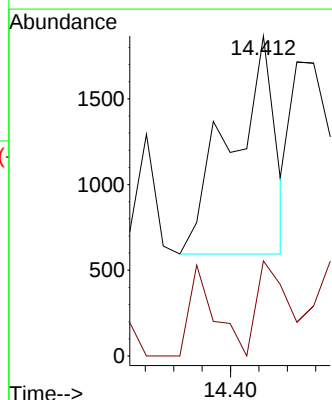
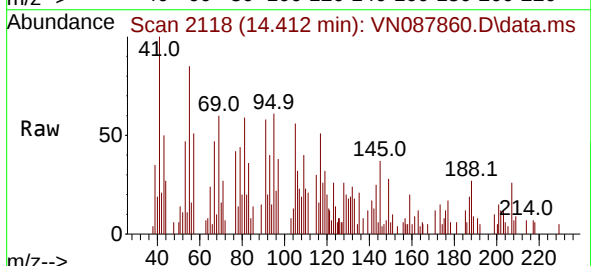
Acq: 16 Sep 2025 18:58

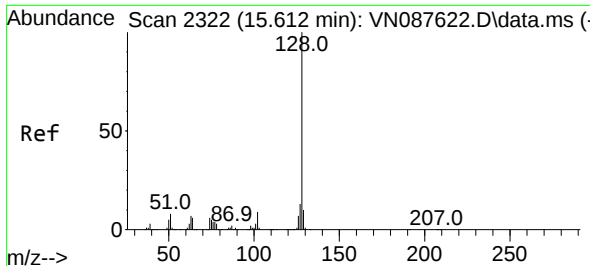
Tgt Ion:117 Resp: 1369

Ion Ratio Lower Upper

117 100

201 30.2 29.1 87.4

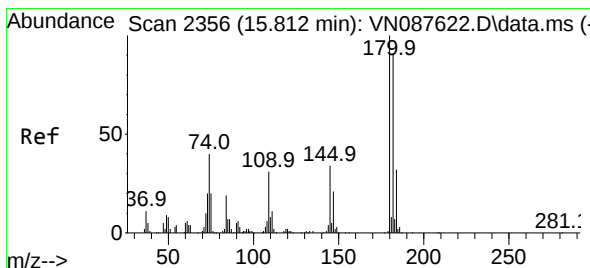
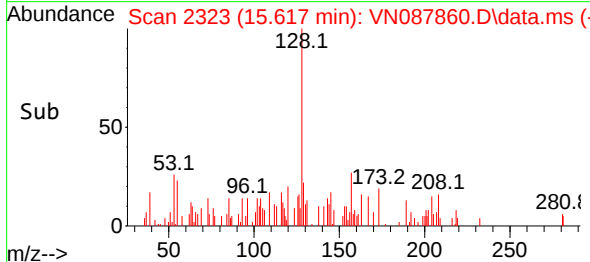
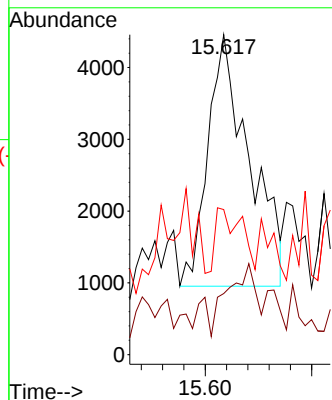
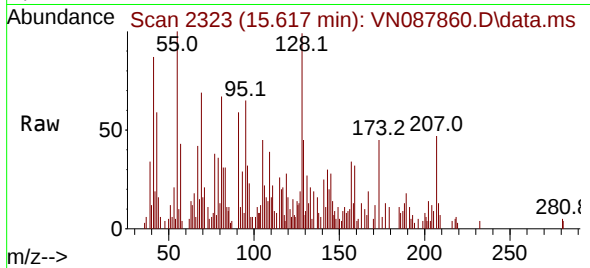




#95
Naphthalene
Concen: 0.529 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 9469
Ion Ratio Lower Upper
128 100
127 3.7 10.6 15.8#
129 23.1 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.351 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN087860.D
Acq: 16 Sep 2025 18:58

Tgt Ion:180 Resp: 1734
Ion Ratio Lower Upper
180 100
182 80.0 46.8 140.3
145 0.0 17.3 52.0#

