

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086941.D
 Acq On : 11 Jun 2025 12:06
 Operator : JC\MD
 Sample : VN0611MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611MBL01

Quant Time: Jun 12 01:29:47 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	8.229	168	220349	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	409645	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	356779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	168457	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	139402	47.251	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.500%
35) Dibromofluoromethane	8.177	113	119537	49.240	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.480%
50) Toluene-d8	10.570	98	495015	51.508	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.020%
62) 4-Bromofluorobenzene	12.847	95	176441	49.416	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.840%

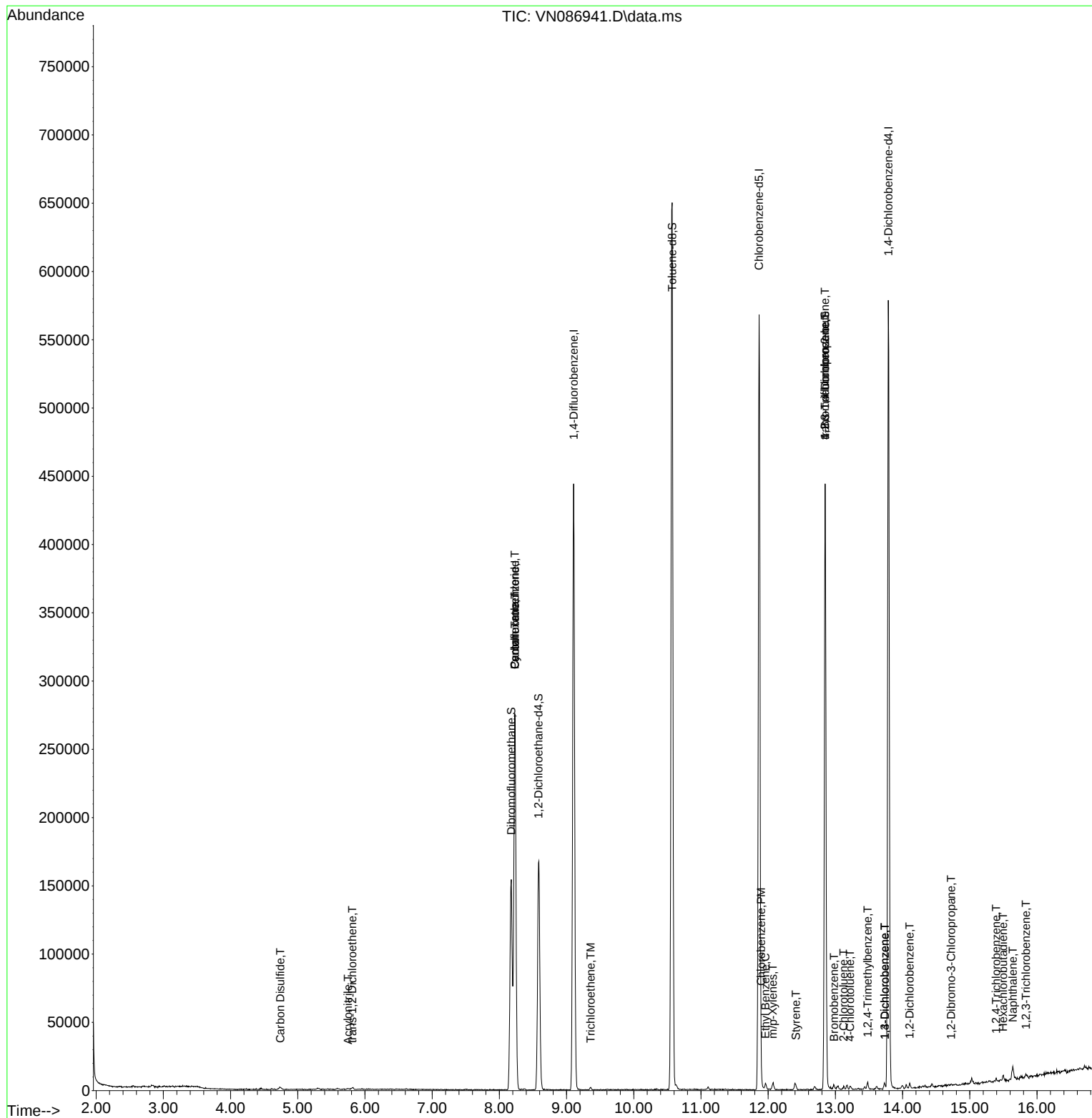
Target Compounds				Qvalue		
15) Acrylonitrile	5.747	53	632	0.338	ug/l #	43
17) Carbon Disulfide	4.741	76	2867	0.423	ug/l #	75
21) trans-1,2-Dichloroethene	5.812	96	1001	0.367	ug/l #	69
31) Cyclohexane	8.229	56	4169	0.871	ug/l #	1
38) Carbon Tetrachloride	8.229	117	21045	5.926	ug/l #	17
44) Trichloroethene	9.359	130	593	0.211	ug/l	74
65) Chlorobenzene	11.894	112	1726	0.219	ug/l	98
67) Ethyl Benzene	11.959	91	2863	0.211	ug/l	99
68) m/p-Xylenes	12.070	106	2206	0.425	ug/l	91
70) Styrene	12.412	104	1752	0.206	ug/l	92
76) 1,2,3-Trichloropropane	12.847	75	80225	20.035	ug/l #	1
77) Bromobenzene	12.982	156	587	0.209	ug/l	75
79) 2-Chlorotoluene	13.123	91	2069	0.231	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.847	75	80225	46.119	ug/l #	16
82) 4-Chlorotoluene	13.217	91	2421	0.268	ug/l	92
84) 1,2,4-Trimethylbenzene	13.482	105	3306	0.325	ug/l	96
87) 1,3-Dichlorobenzene	13.735	146	1442	0.260	ug/l	98
88) 1,4-Dichlorobenzene	13.735	146	1442	0.255	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	1334	0.251	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.723	75	215	0.216	ug/l #	2
93) 1,2,4-Trichlorobenzene	15.394	180	850	0.250	ug/l	85
94) Hexachlorobutadiene	15.494	225	588	0.465	ug/l	77
95) Naphthalene	15.641	128	9092	0.719	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.835	180	953	0.282	ug/l #	85

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

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Sample : VN0611MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
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Quant Time: Jun 12 01:29:47 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

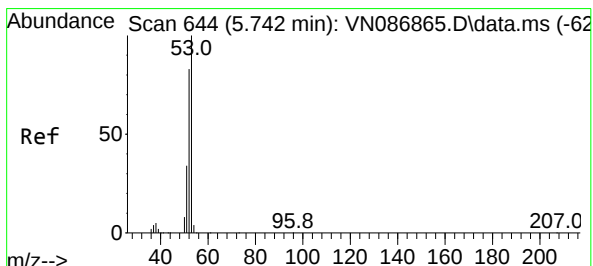
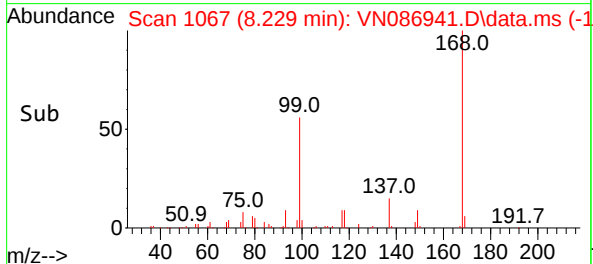
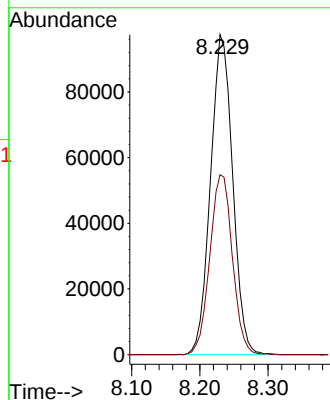
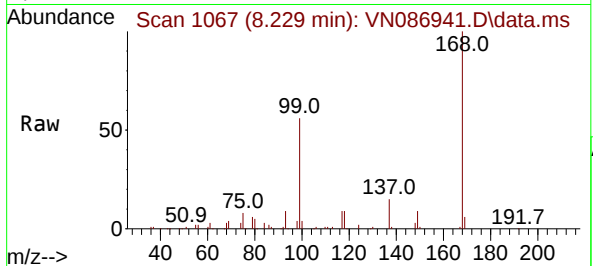




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

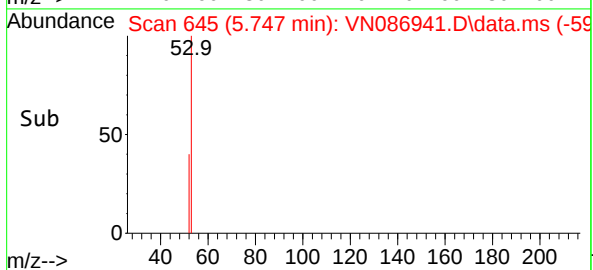
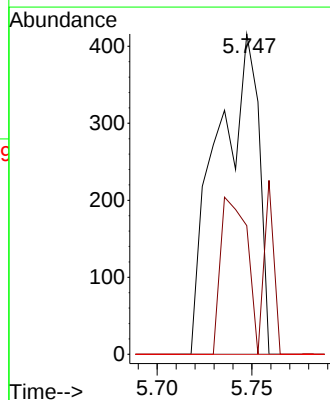
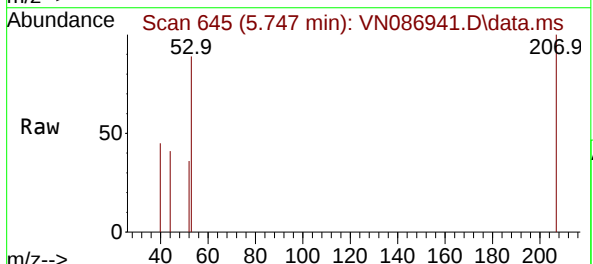
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

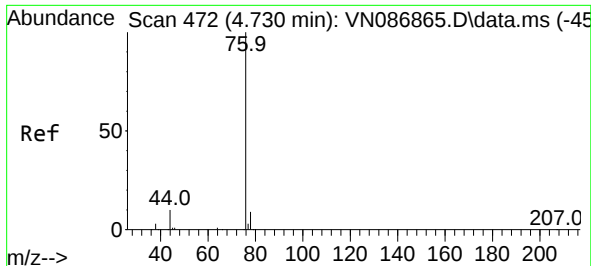
Tgt Ion:168 Resp: 220349
Ion Ratio Lower Upper
168 100
99 56.2 49.1 73.7



#15
Acrylonitrile
Concen: 0.338 ug/l
RT: 5.747 min Scan# 645
Delta R.T. 0.006 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 53 Resp: 632
Ion Ratio Lower Upper
53 100
52 31.2 65.0 97.6#
51 0.0 27.2 40.8#





#17

Carbon Disulfide

Concen: 0.423 ug/l

RT: 4.741 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

Instrument :

MSVOA_N

ClientSampleId :

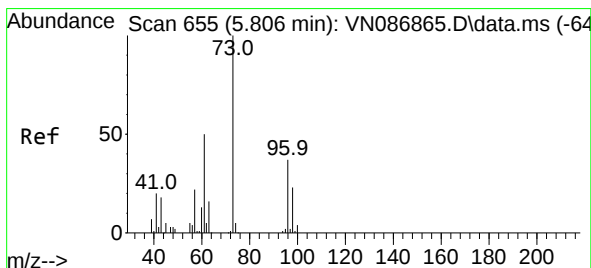
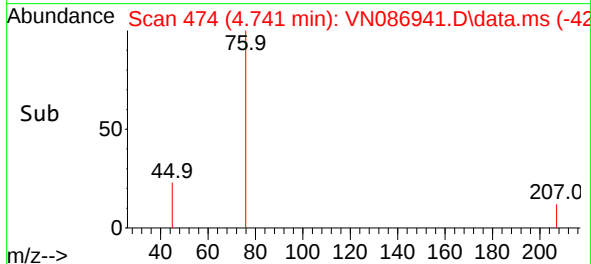
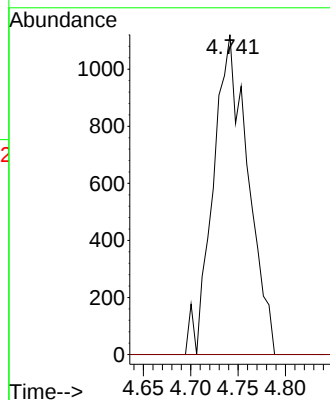
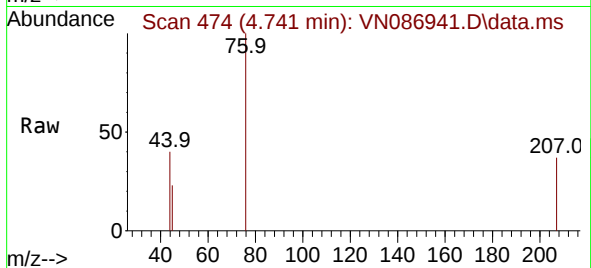
VN0611MBL01

Tgt Ion: 76 Resp: 2867

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#21

trans-1,2-Dichloroethene

Concen: 0.367 ug/l

RT: 5.812 min Scan# 656

Delta R.T. 0.006 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

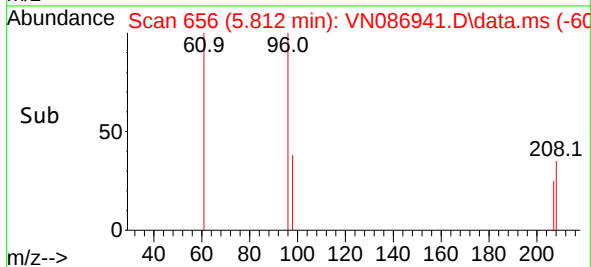
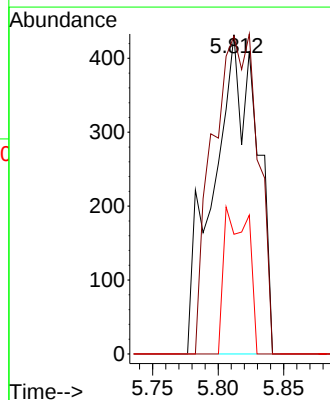
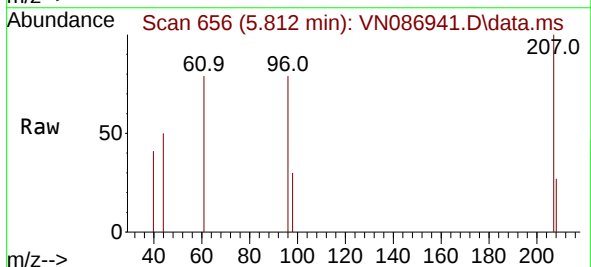
Tgt Ion: 96 Resp: 1001

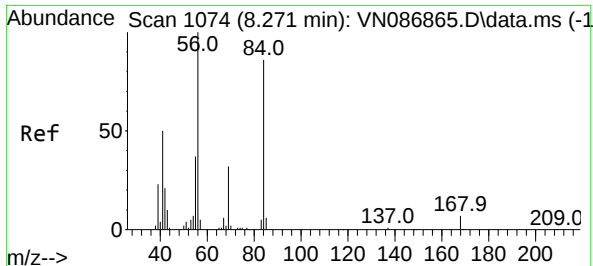
Ion Ratio Lower Upper

96 100

61 99.5 109.2 163.8#

98 37.5 49.8 74.8#

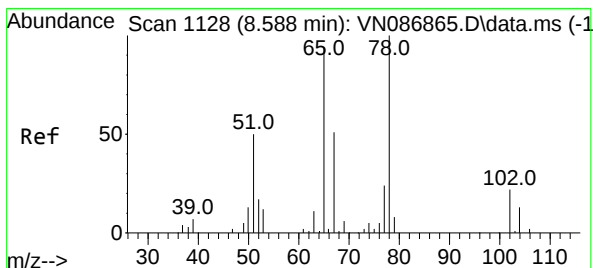
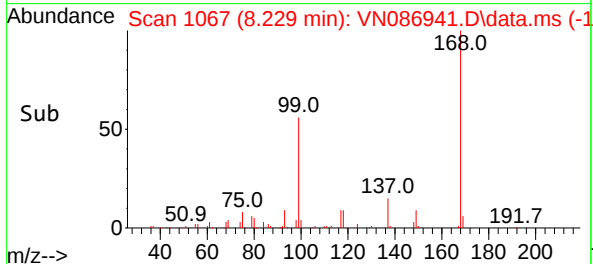
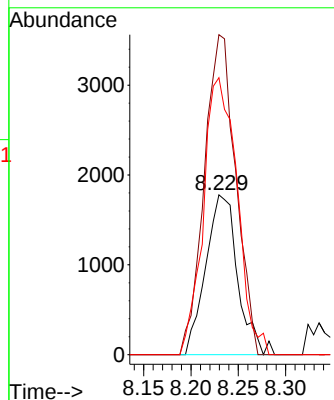
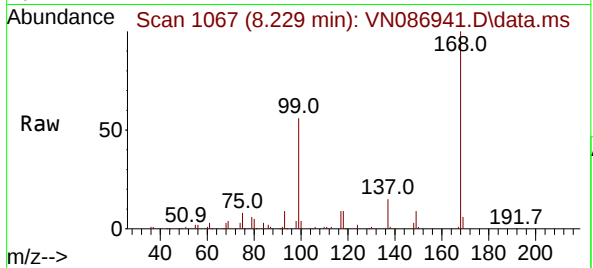




#31
Cyclohexane
Concen: 0.871 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

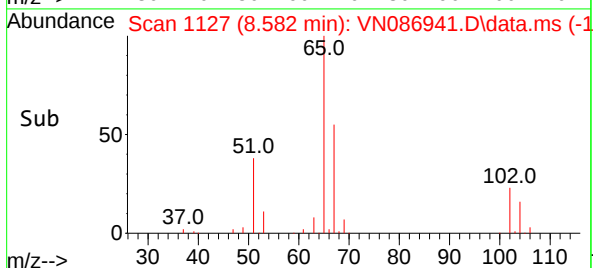
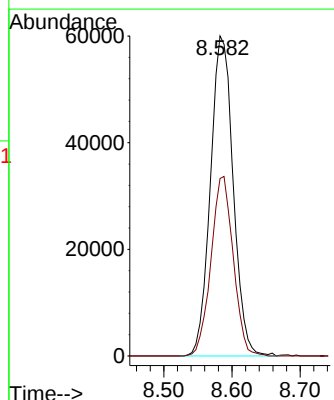
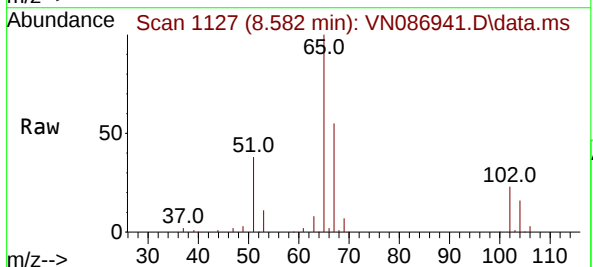
Instrument :
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ClientSampleId :
VN0611MBL01

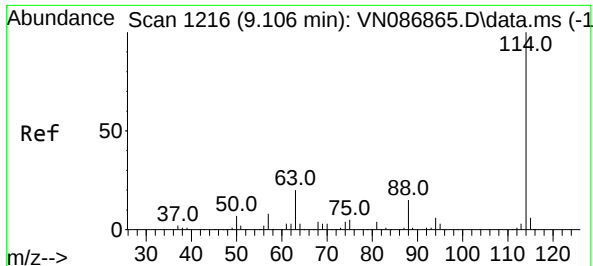
Tgt Ion: 56 Resp: 4169
Ion Ratio Lower Upper
56 100
69 200.1 25.4 38.0#
84 173.2 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 47.251 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 65 Resp: 139402
Ion Ratio Lower Upper
65 100
67 54.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

Instrument :

MSVOA_N

ClientSampleId :

VN0611MBL01

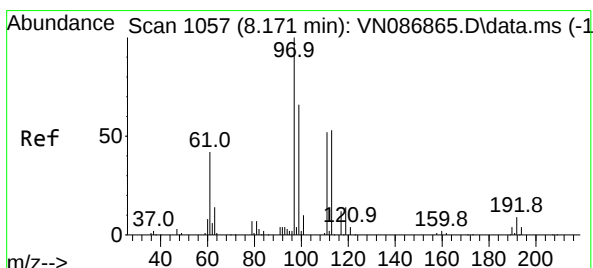
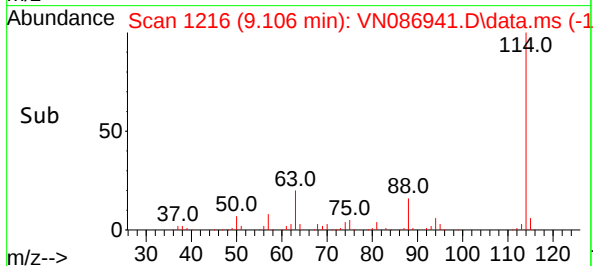
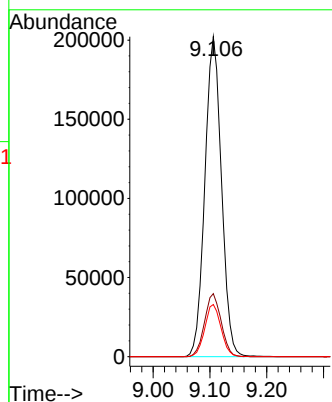
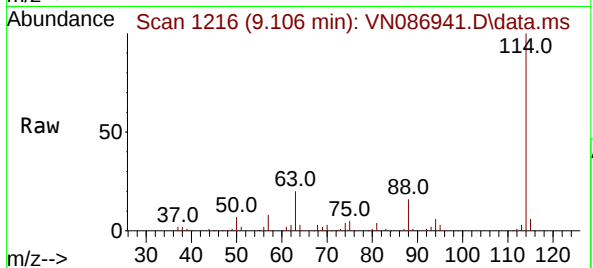
Tgt Ion:114 Resp: 409645

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 16.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.240 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

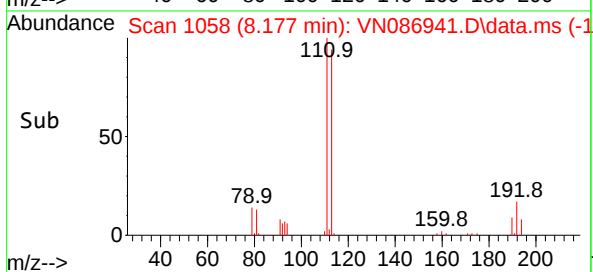
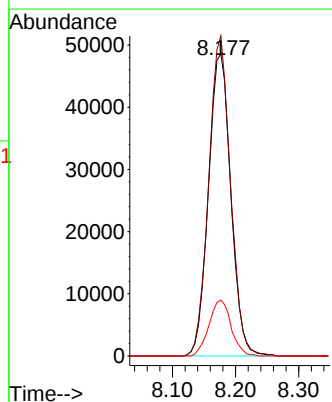
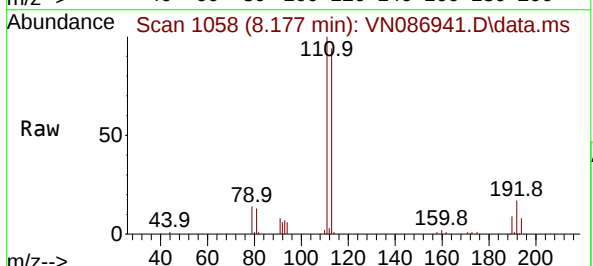
Tgt Ion:113 Resp: 119537

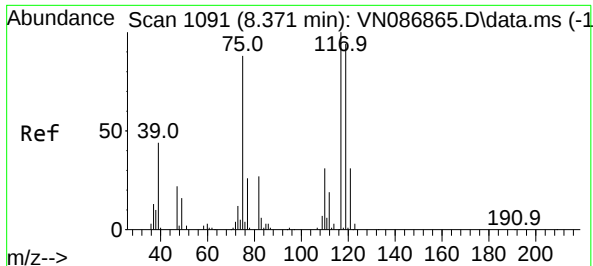
Ion Ratio Lower Upper

113 100

111 103.4 84.2 126.2

192 18.3 14.2 21.4

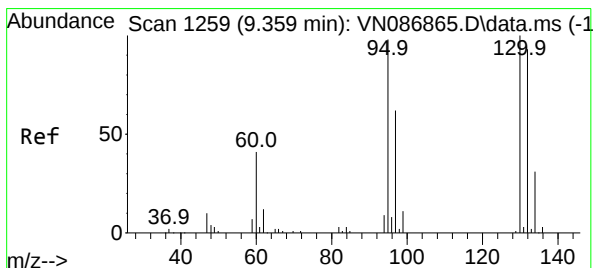
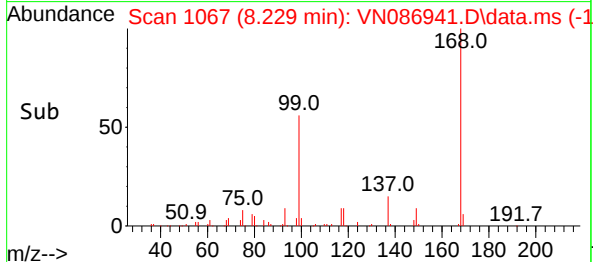
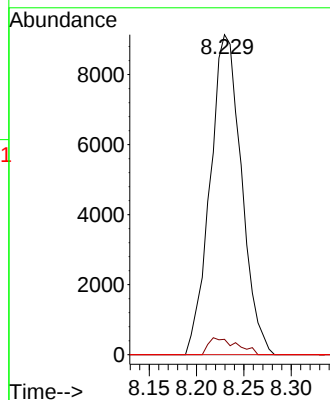
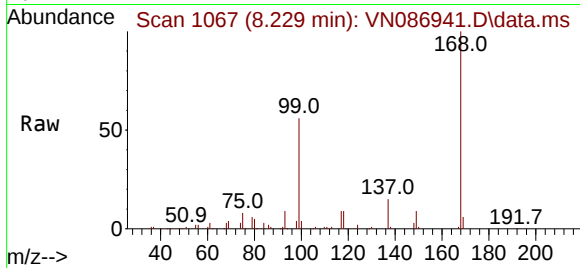




#38
Carbon Tetrachloride
Concen: 5.926 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

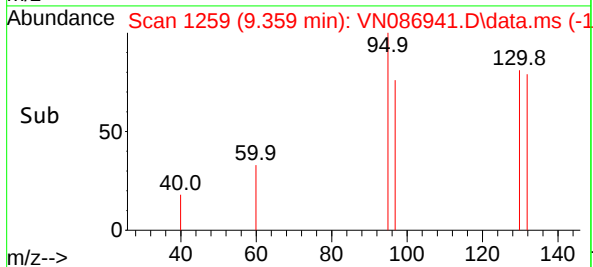
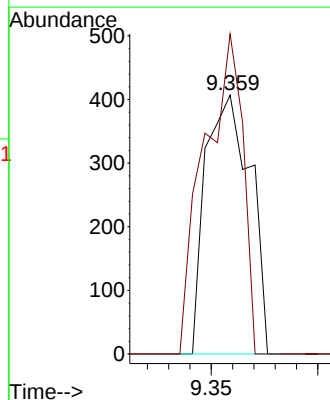
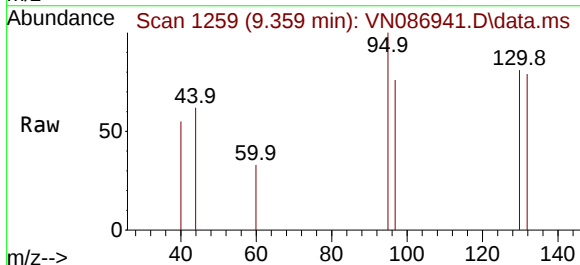
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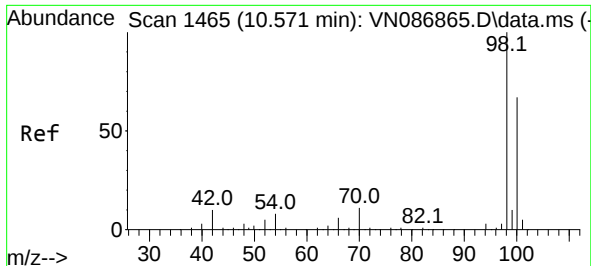
Tgt Ion:117 Resp: 21045
Ion Ratio Lower Upper
117 100
119 4.8 75.0 112.6#
121 0.0 24.9 37.3#



#44
Trichloroethene
Concen: 0.211 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion:130 Resp: 593
Ion Ratio Lower Upper
130 100
95 123.6 0.0 196.2

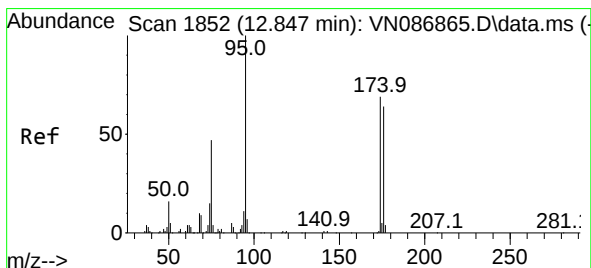
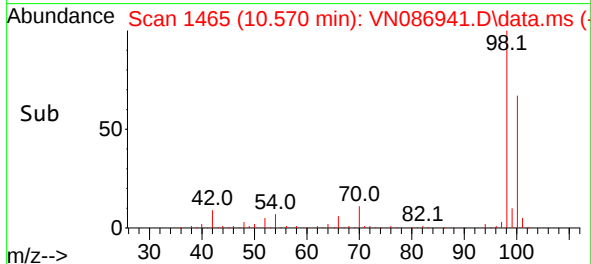
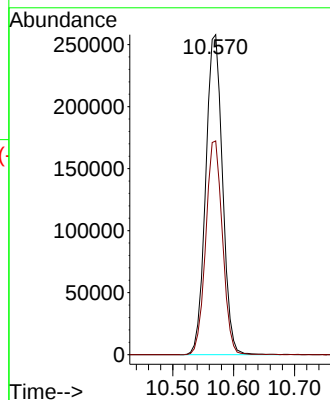
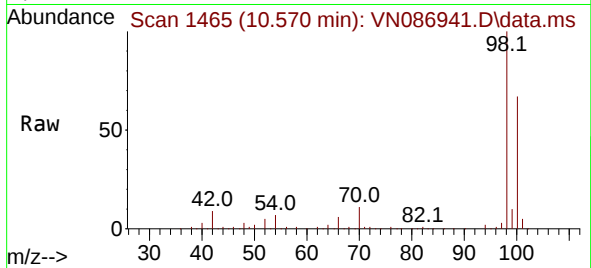




#50
Toluene-d8
Concen: 51.508 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

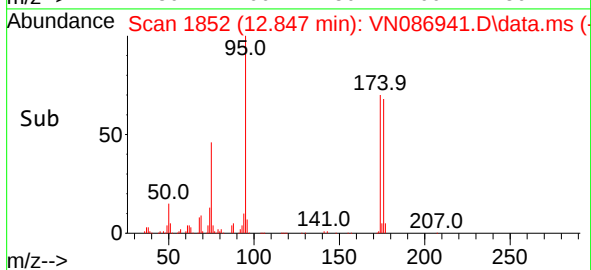
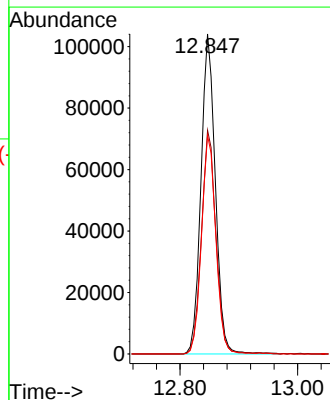
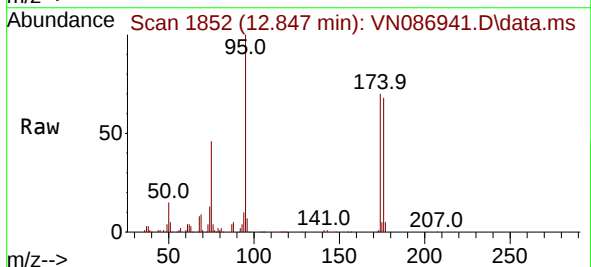
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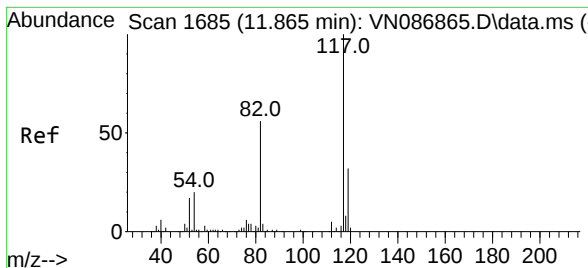
Tgt Ion: 98 Resp: 495015
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.416 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 95 Resp: 176441
Ion Ratio Lower Upper
95 100
174 70.9 0.0 141.8
176 67.9 0.0 132.6

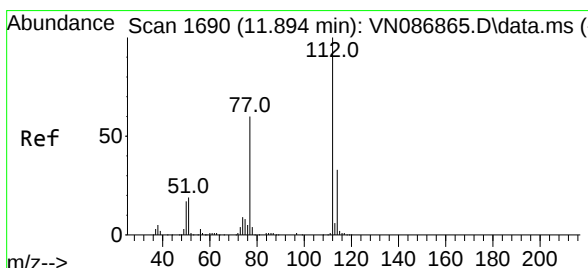
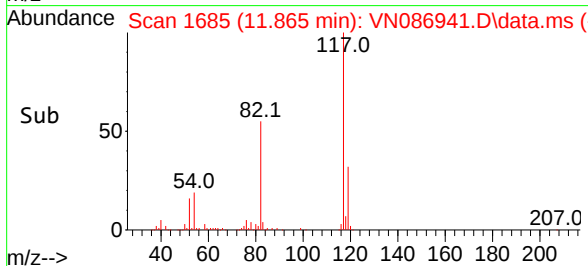
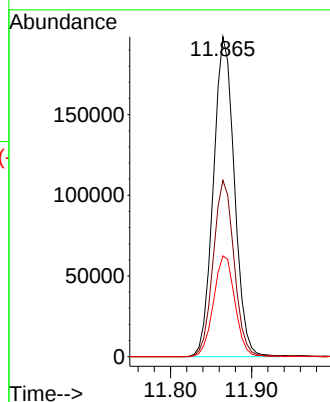
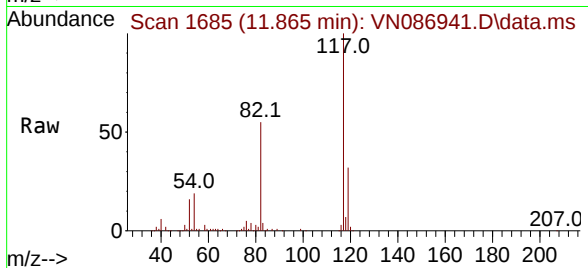




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

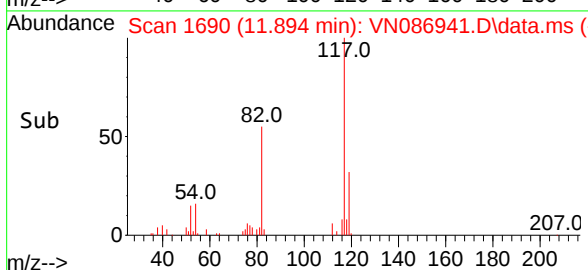
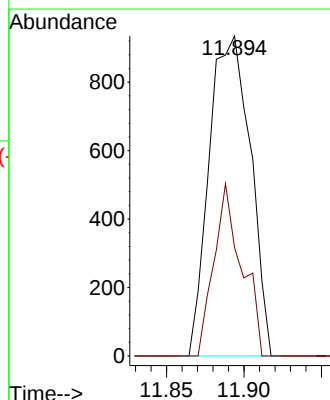
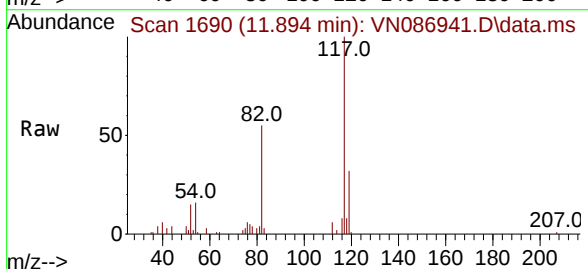
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

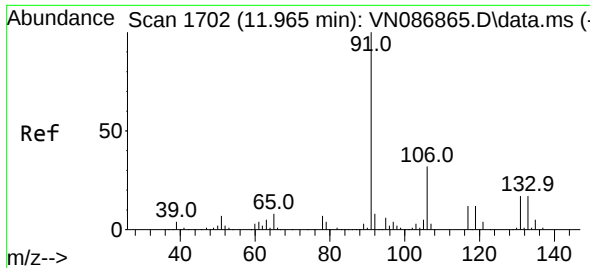
Tgt Ion:117 Resp: 356779
Ion Ratio Lower Upper
117 100
82 55.1 44.6 67.0
119 31.5 25.5 38.3



#65
Chlorobenzene
Concen: 0.219 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion:112 Resp: 1726
Ion Ratio Lower Upper
112 100
114 33.8 26.2 39.2

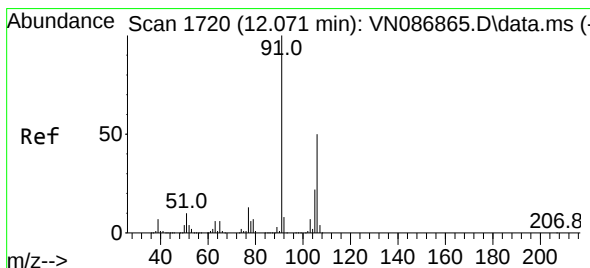
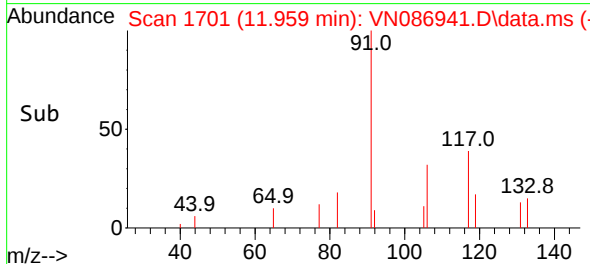
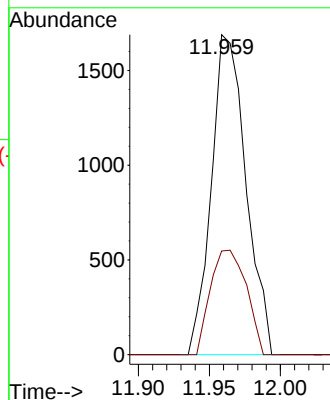
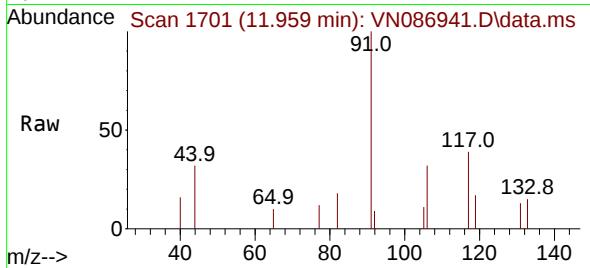




#67
Ethyl Benzene
Concen: 0.211 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

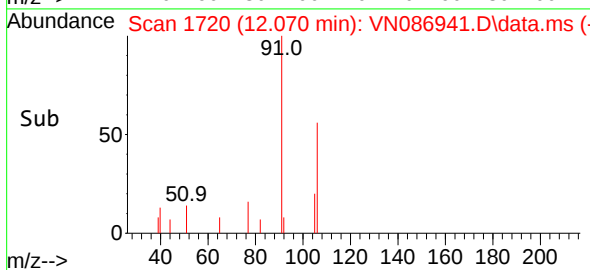
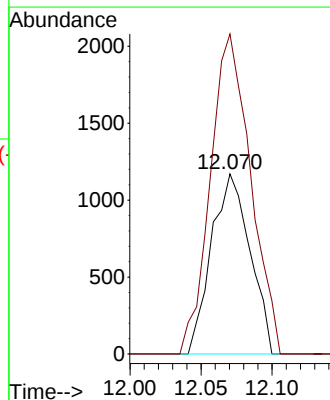
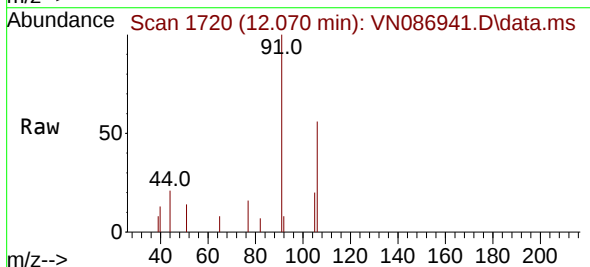
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

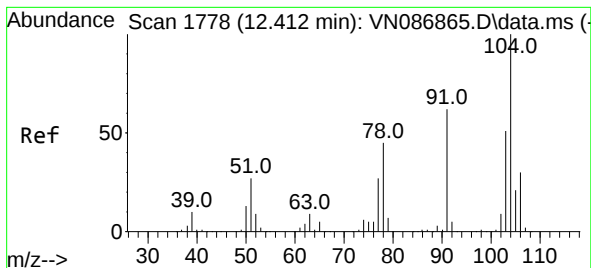
Tgt Ion: 91 Resp: 2863
Ion Ratio Lower Upper
91 100
106 32.4 25.4 38.2



#68
m/p-Xylenes
Concen: 0.425 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 106 Resp: 2206
Ion Ratio Lower Upper
106 100
91 185.9 159.4 239.0





#70

Styrene

Concen: 0.206 ug/l

RT: 12.412 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

Instrument :

MSVOA_N

ClientSampleId :

VN0611MBL01

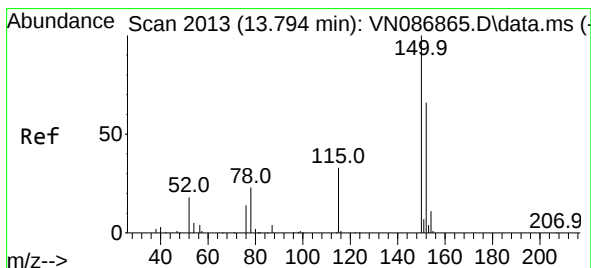
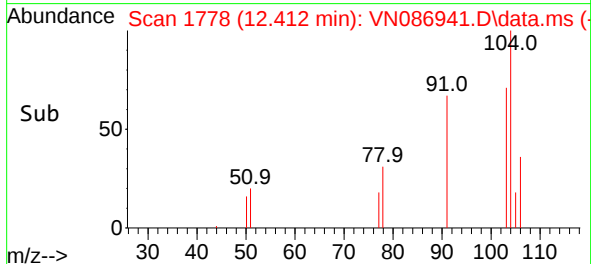
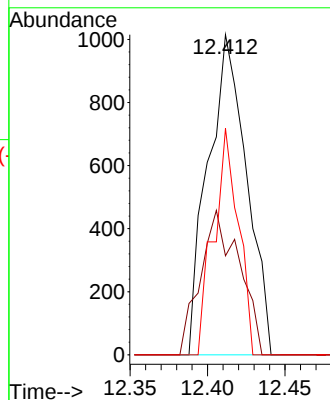
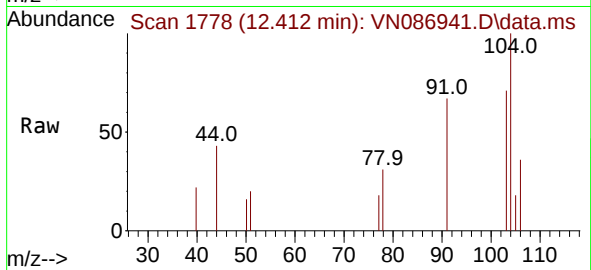
Tgt Ion:104 Resp: 1752

Ion Ratio Lower Upper

104 100

78 45.5 38.5 57.7

103 45.3 43.1 64.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

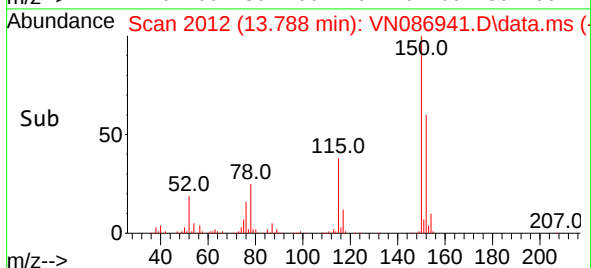
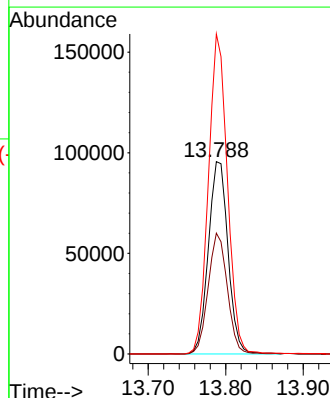
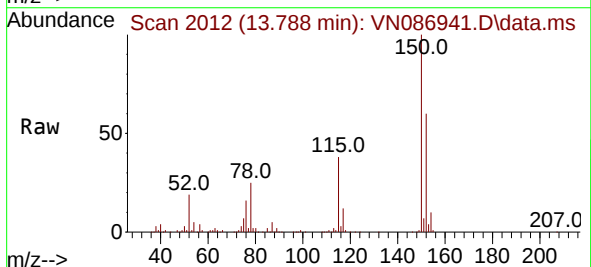
Tgt Ion:152 Resp: 168457

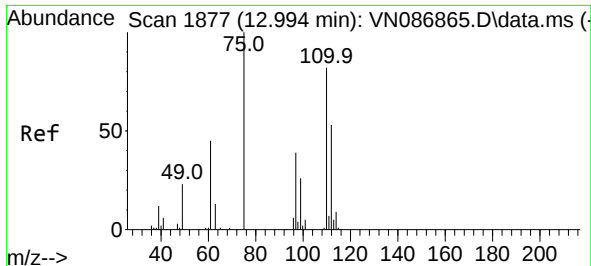
Ion Ratio Lower Upper

152 100

115 61.1 30.1 90.5

150 160.6 0.0 345.0

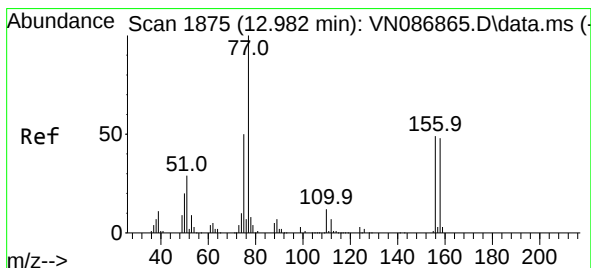
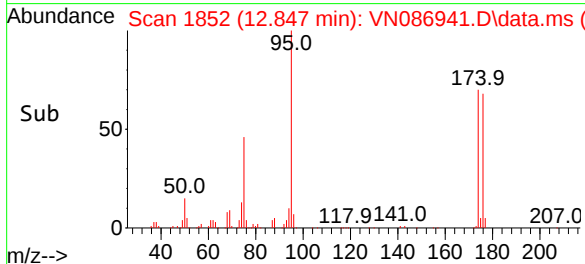
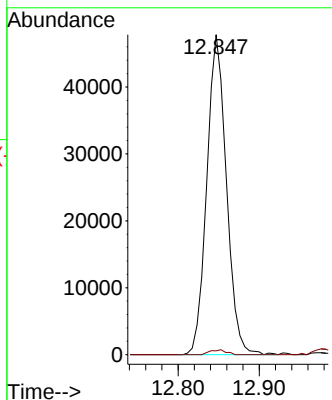
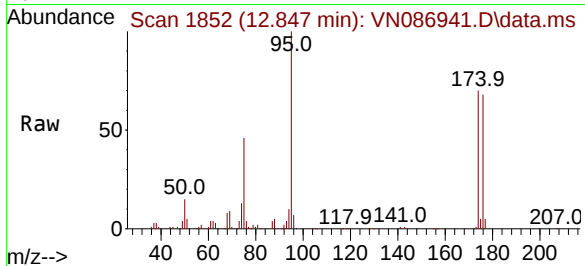




#76
1,2,3-Trichloropropane
Concen: 20.035 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

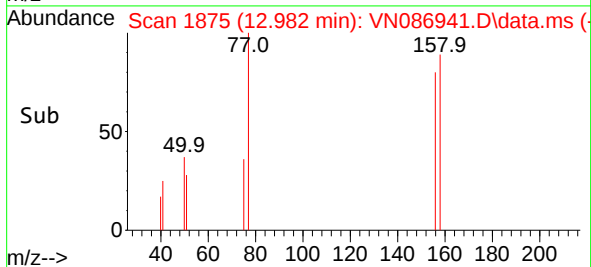
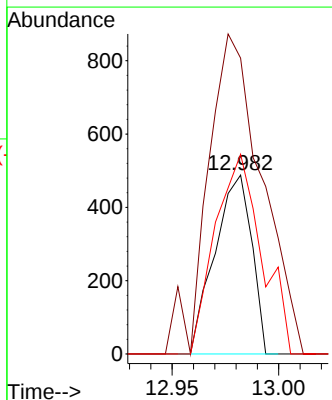
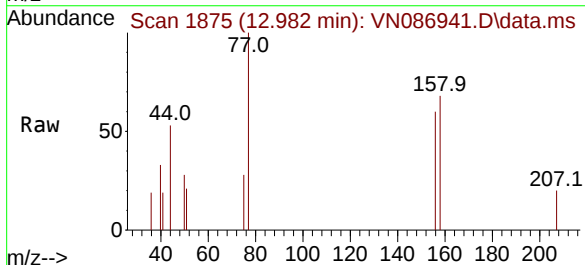
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

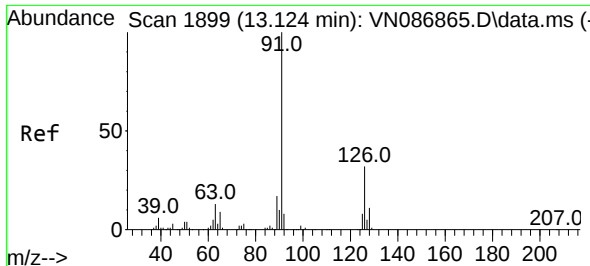
Tgt Ion: 75 Resp: 80225
Ion Ratio Lower Upper
75 100
77 1.3 79.3 237.9#



#77
Bromobenzene
Concen: 0.209 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 156 Resp: 587
Ion Ratio Lower Upper
156 100
77 264.2 117.7 353.1
158 140.7 48.1 144.4

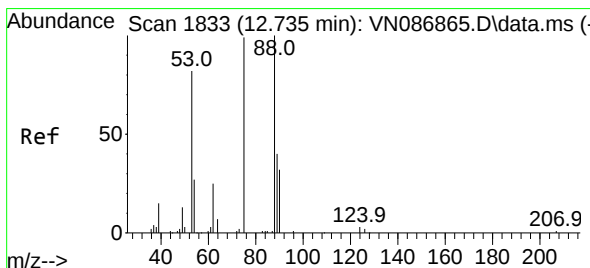
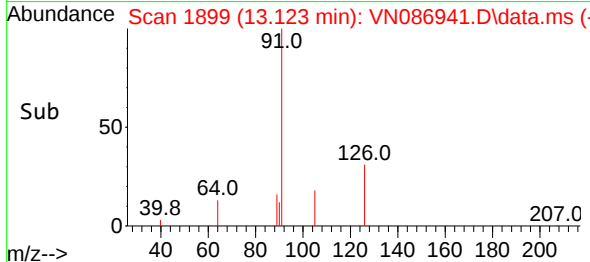
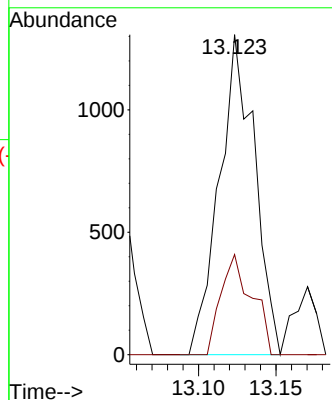
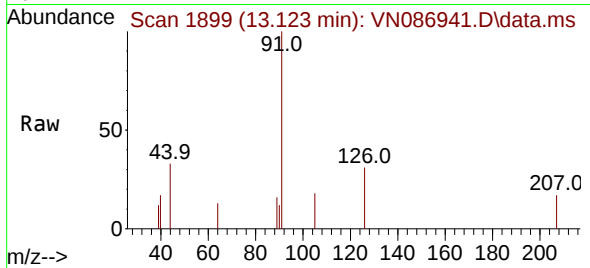




#79
2-Chlorotoluene
Concen: 0.231 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

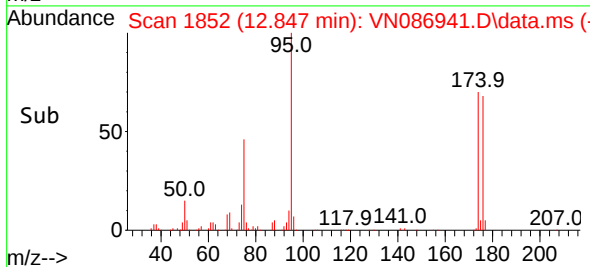
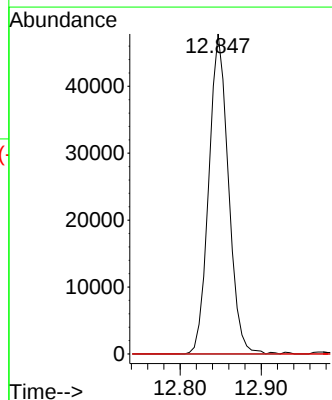
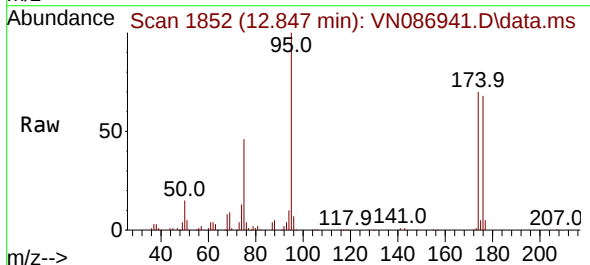
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

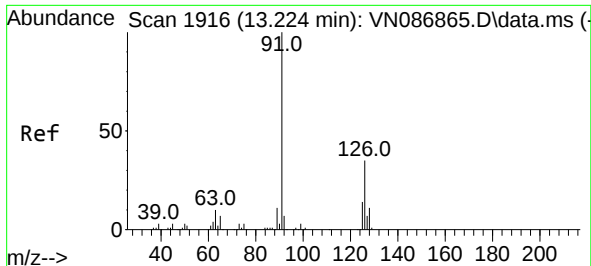
Tgt Ion: 91 Resp: 2069
Ion Ratio Lower Upper
91 100
126 27.5 16.2 48.5



#81
trans-1,4-Dichloro-2-butene
Concen: 46.119 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 75 Resp: 80225
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#

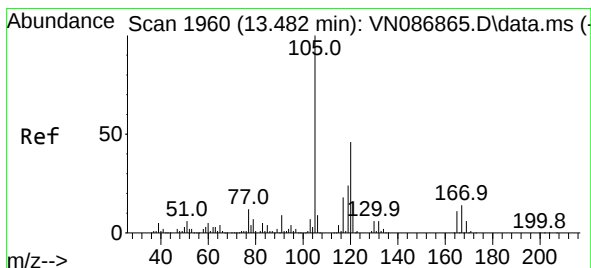
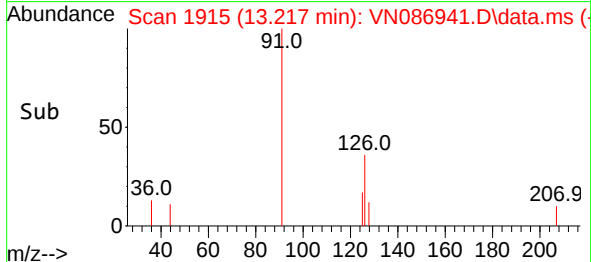
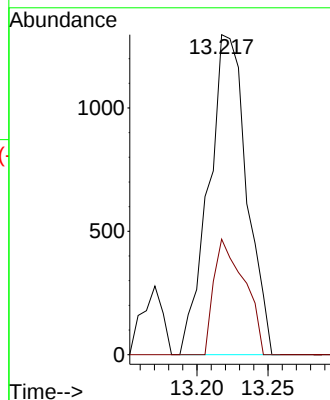
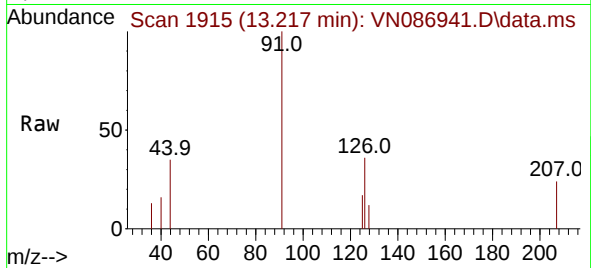




#82
4-Chlorotoluene
Concen: 0.268 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

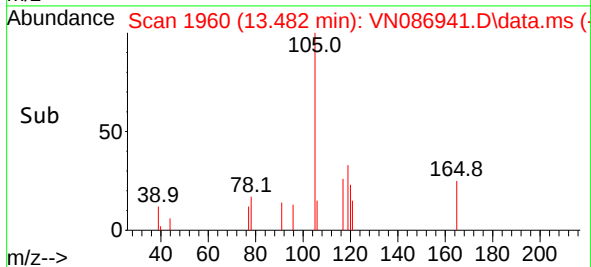
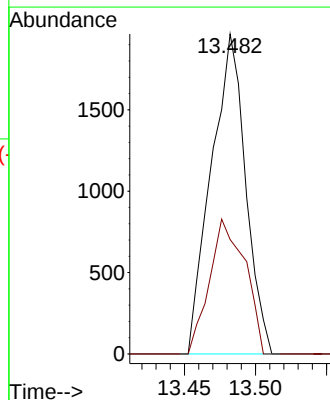
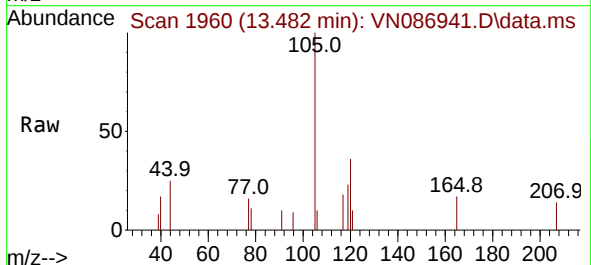
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

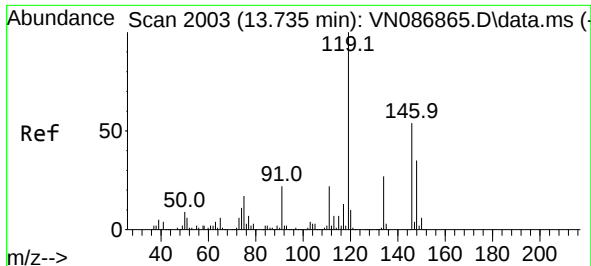
Tgt Ion: 91 Resp: 2421
Ion Ratio Lower Upper
91 100
126 29.0 16.7 50.1



#84
1,2,4-Trimethylbenzene
Concen: 0.325 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 105 Resp: 3306
Ion Ratio Lower Upper
105 100
120 43.6 23.2 69.6

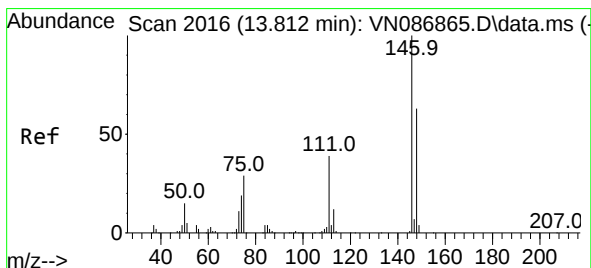
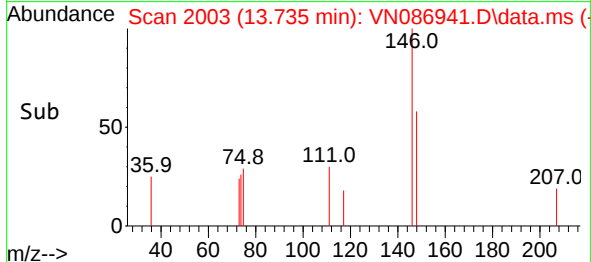
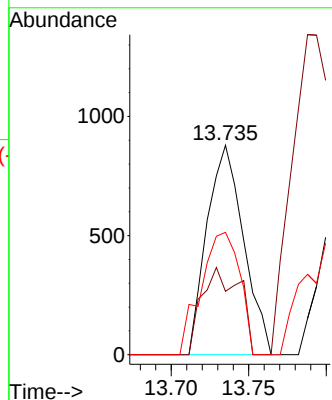
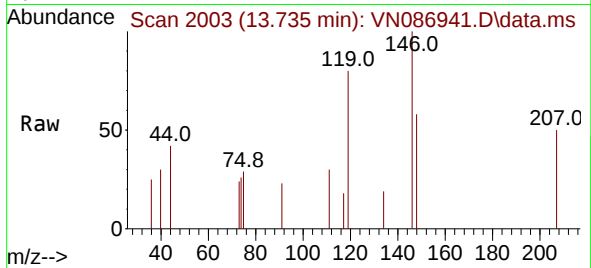




#87
1,3-Dichlorobenzene
Concen: 0.260 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

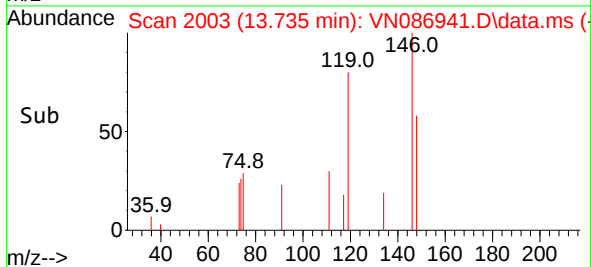
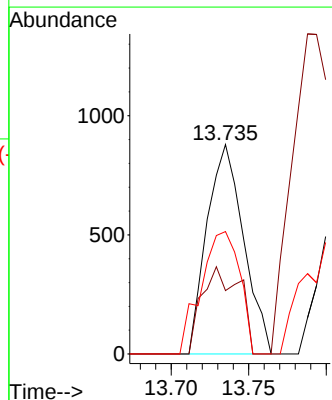
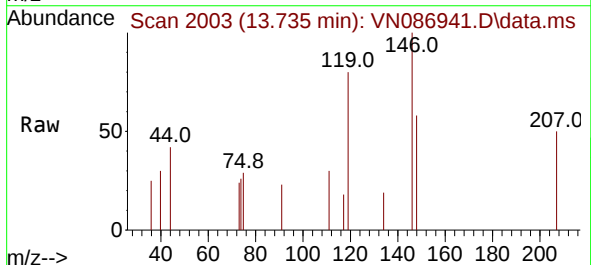
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

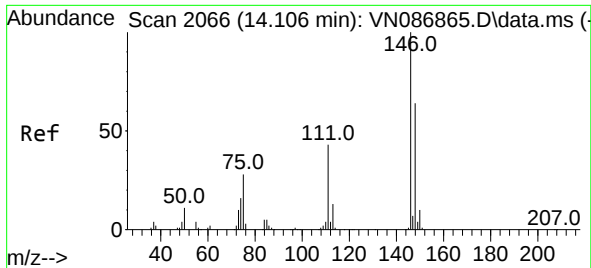
Tgt Ion:146 Resp: 1442
Ion Ratio Lower Upper
146 100
111 42.6 20.9 62.8
148 61.7 32.0 96.2



#88
1,4-Dichlorobenzene
Concen: 0.255 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.077 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion:146 Resp: 1442
Ion Ratio Lower Upper
146 100
111 42.6 19.9 59.7
148 61.7 31.8 95.4

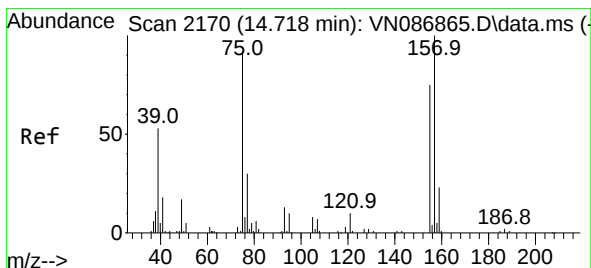
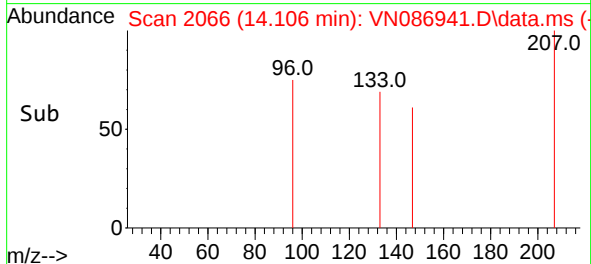
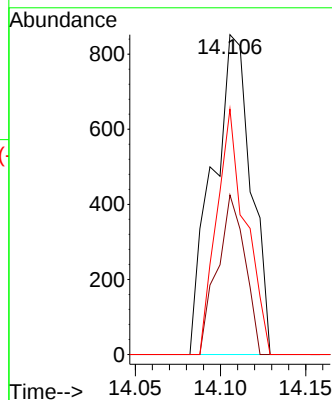
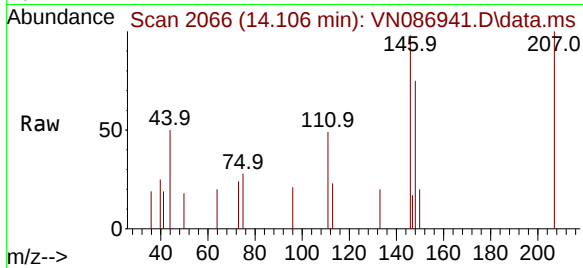




#91
1,2-Dichlorobenzene
Concen: 0.251 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

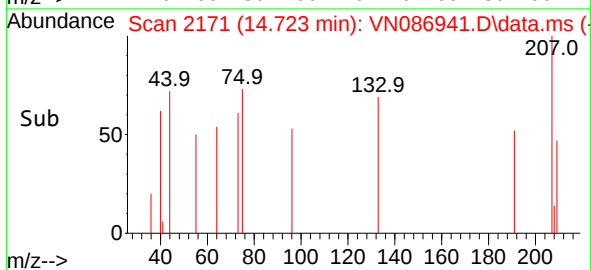
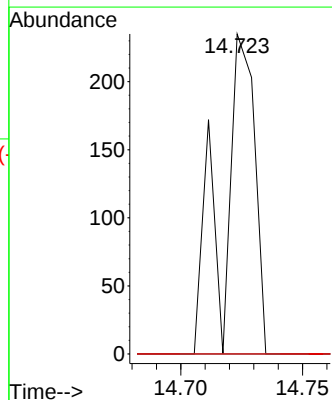
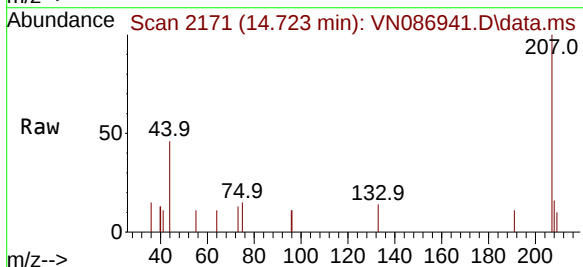
Instrument :
MSVOA_N
ClientSampleId :
VN0611MBL01

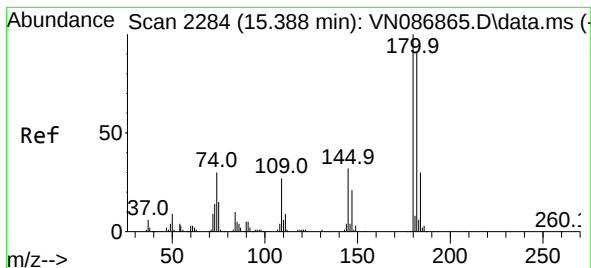
Tgt Ion:146 Resp: 1334
Ion Ratio Lower Upper
146 100
111 36.1 21.6 64.6
148 57.9 31.7 95.1



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.216 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN086941.D
Acq: 11 Jun 2025 12:06

Tgt Ion: 75 Resp: 215
Ion Ratio Lower Upper
75 100
155 0.0 41.1 123.4#
157 0.0 52.7 158.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.250 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

Instrument :

MSVOA_N

ClientSampleId :

VN0611MBL01

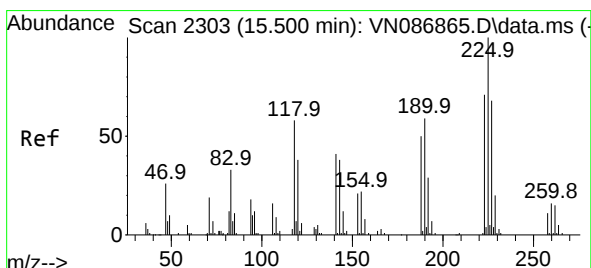
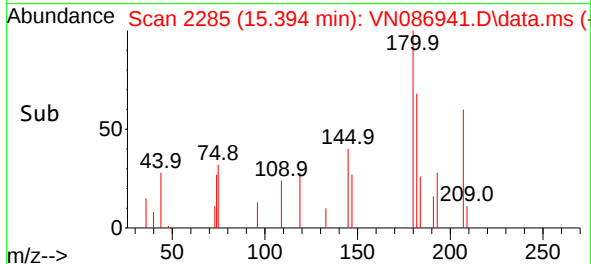
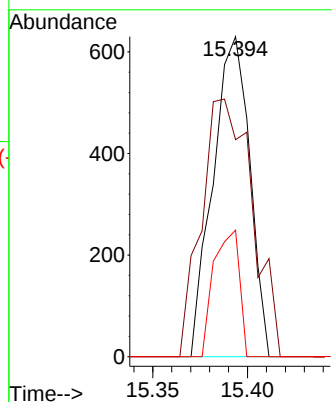
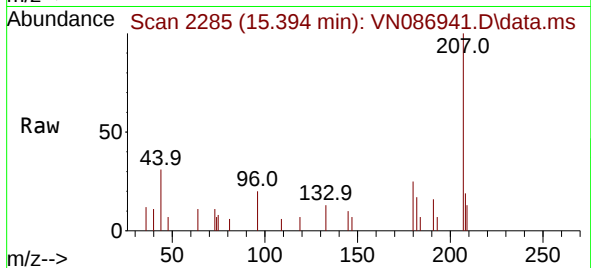
Tgt Ion:180 Resp: 850

Ion Ratio Lower Upper

180 100

182 111.1 46.9 140.7

145 27.5 16.0 47.9



#94

Hexachlorobutadiene

Concen: 0.465 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

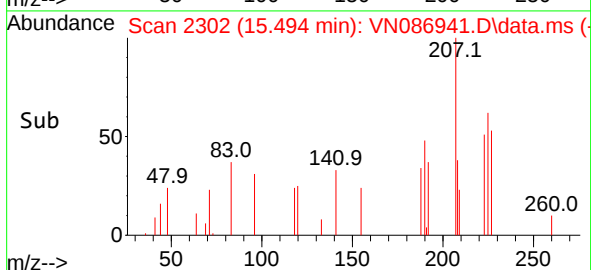
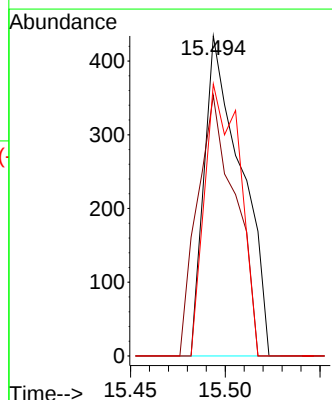
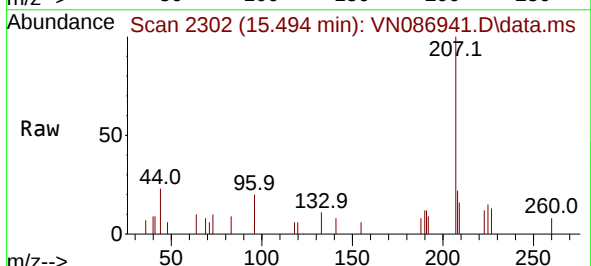
Tgt Ion:225 Resp: 588

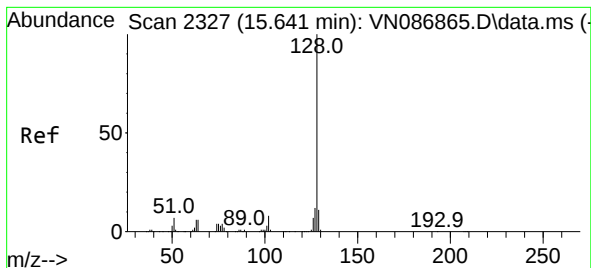
Ion Ratio Lower Upper

225 100

223 83.8 33.5 100.4

227 81.0 31.1 93.5





#95

Naphthalene

Concen: 0.719 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

Instrument :

MSVOA_N

ClientSampleId :

VN0611MBL01

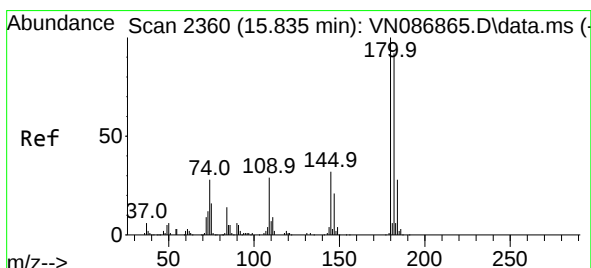
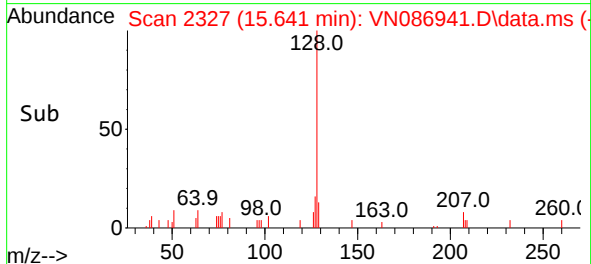
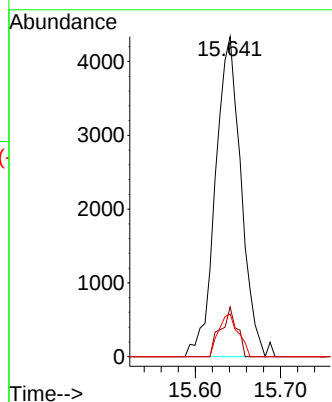
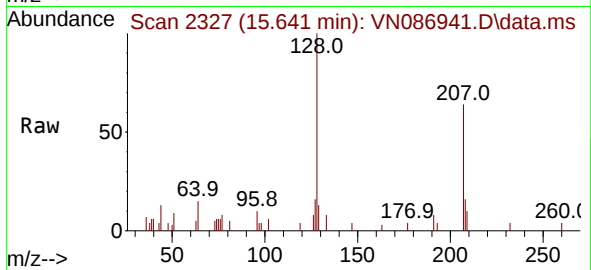
Tgt Ion:128 Resp: 9092

Ion Ratio Lower Upper

128 100

127 9.8 10.2 15.2#

129 10.2 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.282 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086941.D

Acq: 11 Jun 2025 12:06

Tgt Ion:180 Resp: 953

Ion Ratio Lower Upper

180 100

182 102.5 47.0 141.0

145 14.6 16.6 49.8#

