

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087018.D
 Acq On : 16 Jun 2025 10:22
 Operator : JC\MD
 Sample : VN0616MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616MBL01

Quant Time: Jun 17 07:18:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	191574	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	370208	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	334099	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	155803	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	129256	50.393	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.780%	
35) Dibromofluoromethane	8.177	113	111183	50.677	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.360%	
50) Toluene-d8	10.565	98	454757	52.360	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.720%	
62) 4-Bromofluorobenzene	12.847	95	159474	49.421	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.840%	

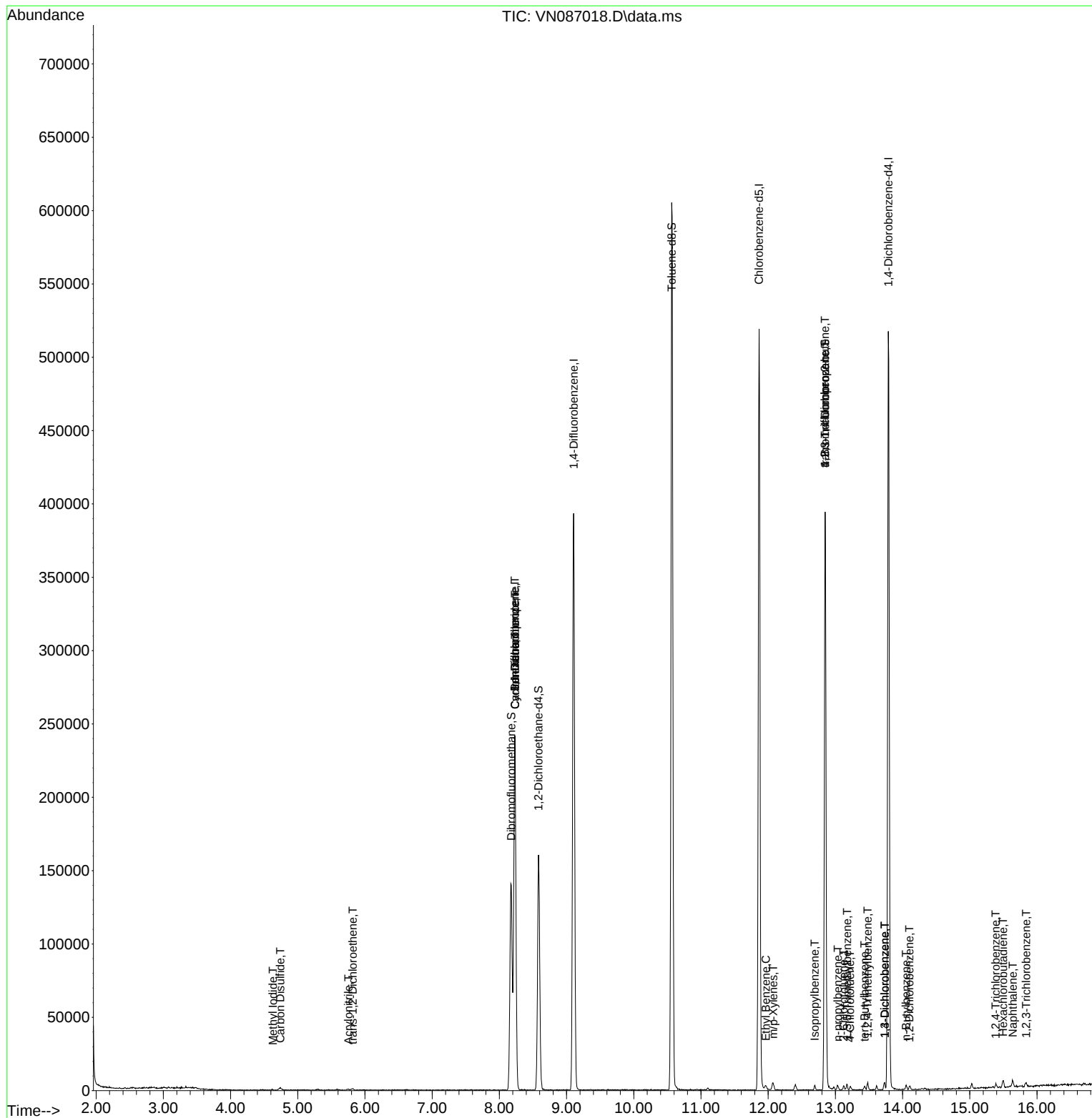
Target Compounds				Qvalue		
10) Methyl Iodide	4.630	142	686	0.253	ug/l #	44
15) Acrylonitrile	5.753	53	623	0.383	ug/l #	72
17) Carbon Disulfide	4.742	76	3164	0.536	ug/l #	88
21) trans-1,2-Dichloroethene	5.818	96	819	0.345	ug/l #	53
31) Cyclohexane	8.235	56	3676	0.884	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	14665	4.486	ug/l #	46
38) Carbon Tetrachloride	8.235	117	18443	5.746	ug/l #	17
67) Ethyl Benzene	11.965	91	2795	0.220	ug/l	91
68) m/p-Xylenes	12.076	106	2082	0.429	ug/l	76
73) Isopropylbenzene	12.694	105	2604	0.229	ug/l	87
76) 1,2,3-Trichloropropane	12.847	75	72795	19.656	ug/l #	1
78) n-propylbenzene	13.035	91	3723	0.270	ug/l	85
79) 2-Chlorotoluene	13.123	91	2537	0.307	ug/l	90
80) 1,3,5-Trimethylbenzene	13.176	105	2411	0.257	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.847	75	72795	45.247	ug/l #	16
82) 4-Chlorotoluene	13.218	91	2223	0.266	ug/l	95
83) tert-Butylbenzene	13.435	119	1876	0.219	ug/l	85
84) 1,2,4-Trimethylbenzene	13.482	105	2639	0.281	ug/l	94
87) 1,3-Dichlorobenzene	13.735	146	1547	0.302	ug/l	96
88) 1,4-Dichlorobenzene	13.735	146	1547	0.296	ug/l	98
89) n-Butylbenzene	14.053	91	2134	0.214	ug/l	91
91) 1,2-Dichlorobenzene	14.100	146	1417	0.288	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	893	0.284	ug/l #	72
94) Hexachlorobutadiene	15.494	225	1075	0.918	ug/l	85
95) Naphthalene	15.641	128	5027	0.430	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	1207	0.387	ug/l	91

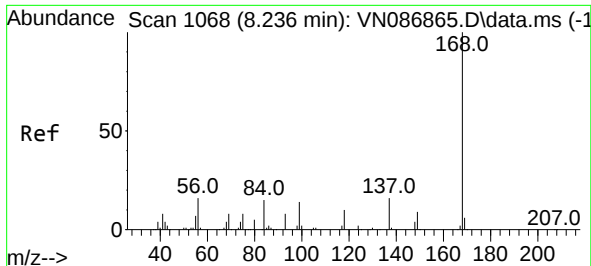
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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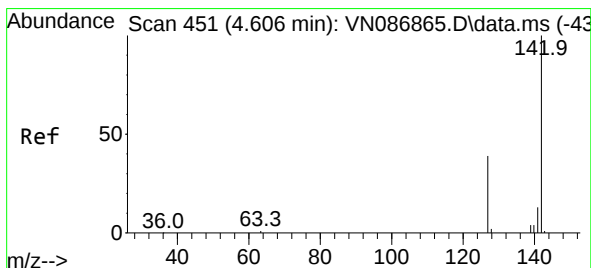
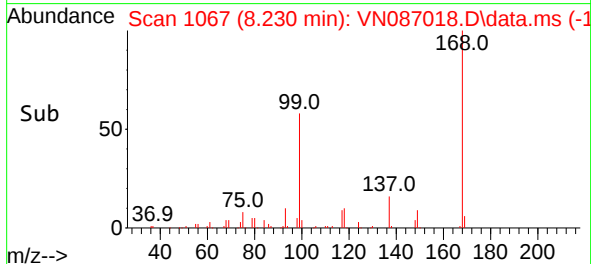
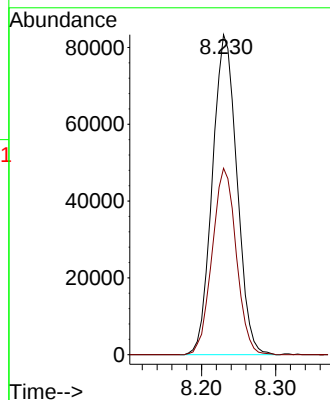
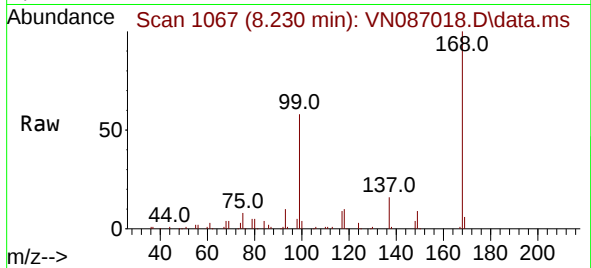




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.006 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

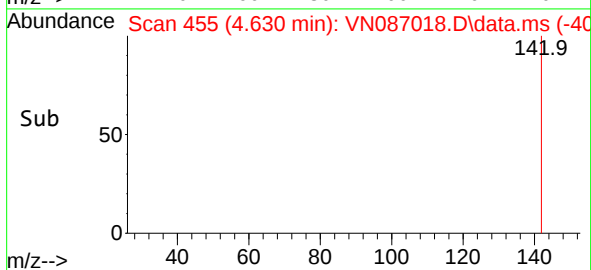
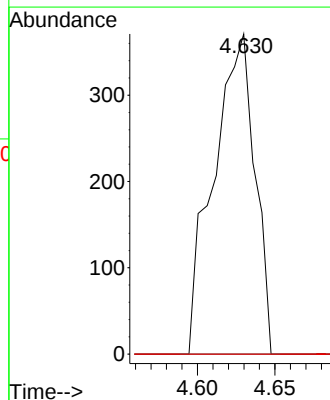
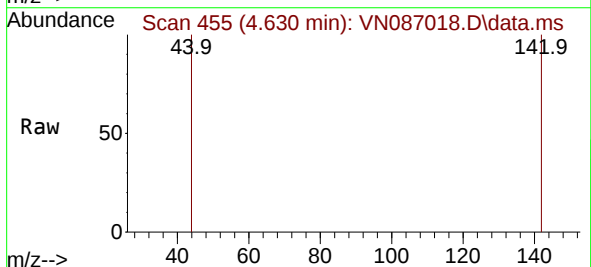
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

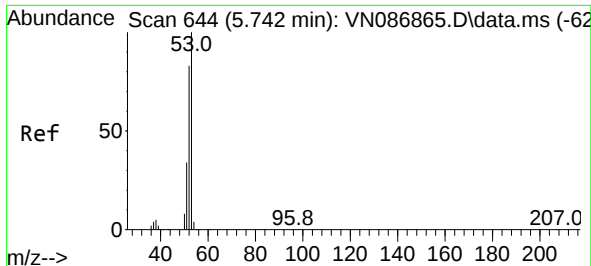
Tgt Ion:168 Resp: 191574
Ion Ratio Lower Upper
168 100
99 58.3 49.1 73.7



#10
Methyl Iodide
Concen: 0.253 ug/l
RT: 4.630 min Scan# 455
Delta R.T. 0.023 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion:142 Resp: 686
Ion Ratio Lower Upper
142 100
127 0.0 30.9 46.3#
141 0.0 10.4 15.6#

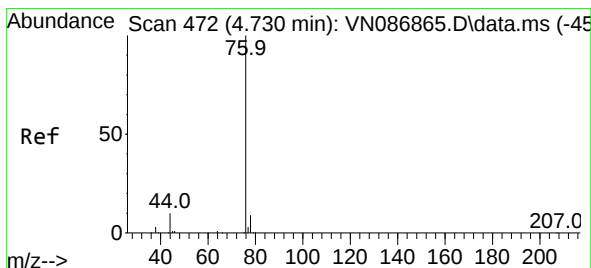
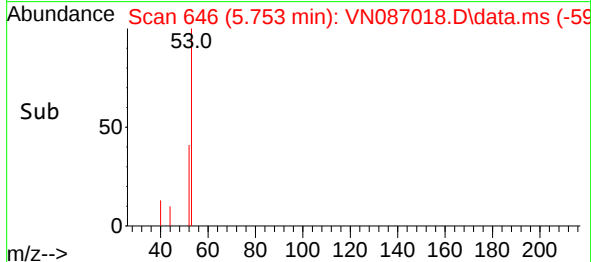
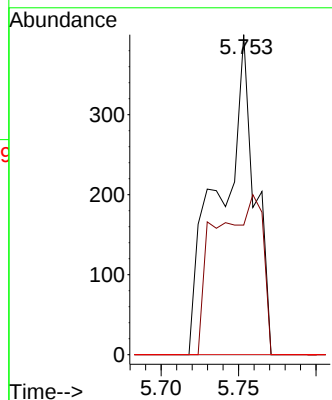
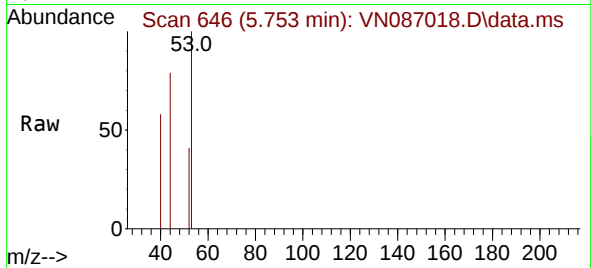




#15
Acrylonitrile
Concen: 0.383 ug/l
RT: 5.753 min Scan# 644
Delta R.T. 0.012 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

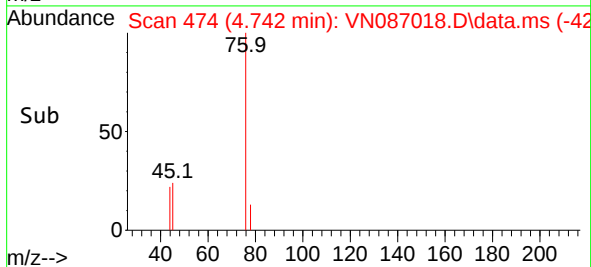
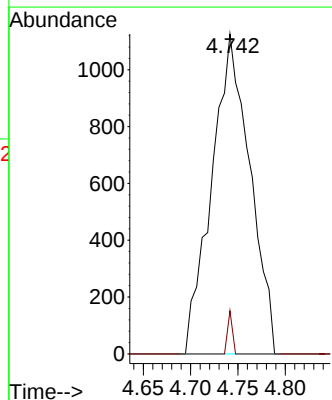
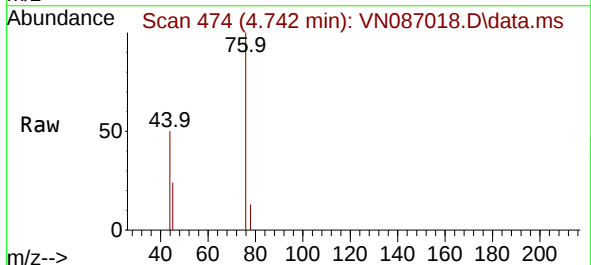
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

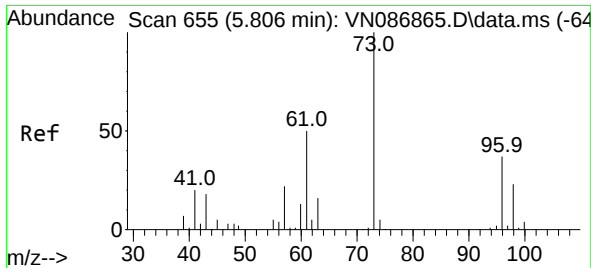
Tgt Ion: 53 Resp: 623
Ion Ratio Lower Upper
53 100
52 67.4 65.0 97.6
51 0.0 27.2 40.8#



#17
Carbon Disulfide
Concen: 0.536 ug/l
RT: 4.742 min Scan# 474
Delta R.T. 0.012 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion: 76 Resp: 3164
Ion Ratio Lower Upper
76 100
78 13.5 7.3 10.9#

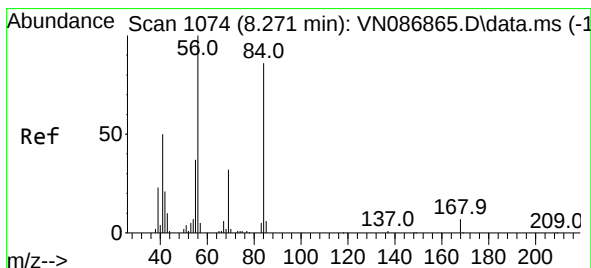
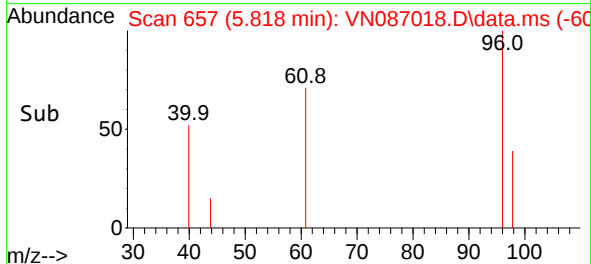
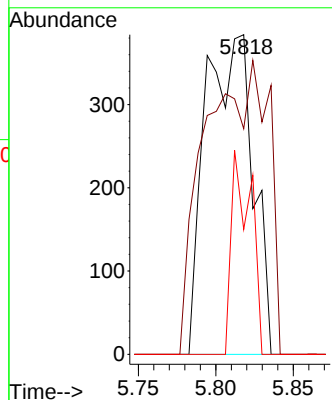
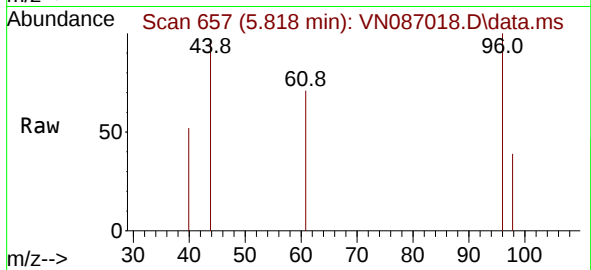




#21
trans-1,2-Dichloroethene
Concen: 0.345 ug/l
RT: 5.818 min Scan# 619
Delta R.T. 0.012 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

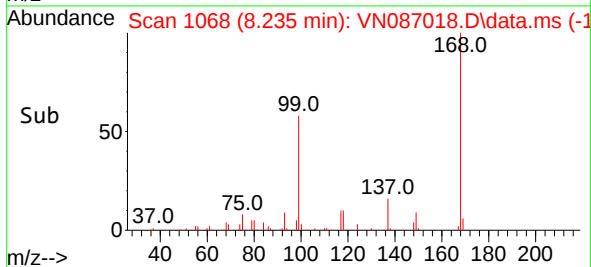
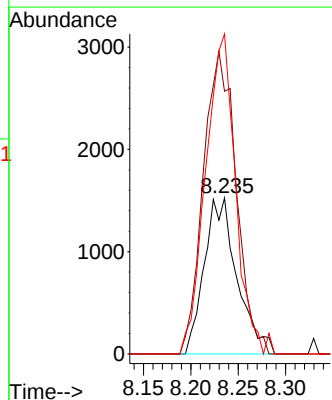
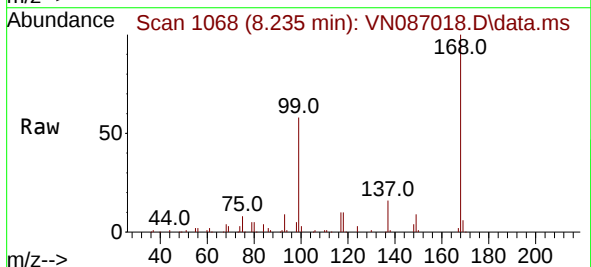
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

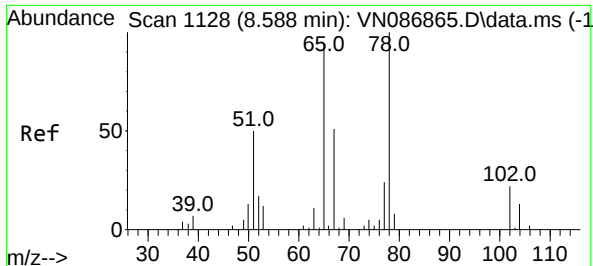
Tgt Ion: 96 Resp: 819
Ion Ratio Lower Upper
96 100
61 70.6 109.2 163.8#
98 39.1 49.8 74.8#



#31
Cyclohexane
Concen: 0.884 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion: 56 Resp: 3676
Ion Ratio Lower Upper
56 100
69 168.4 25.4 38.0#
84 205.1 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 50.393 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN087018.D

Acq: 16 Jun 2025 10:22

Instrument :

MSVOA_N

ClientSampleId :

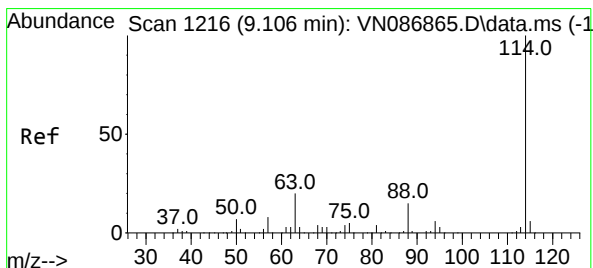
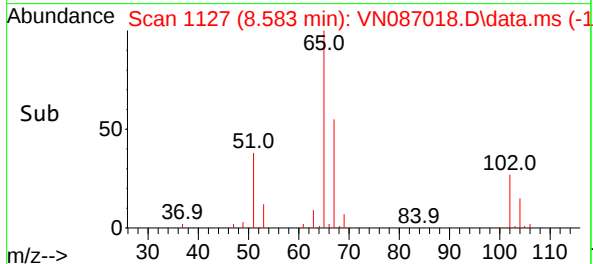
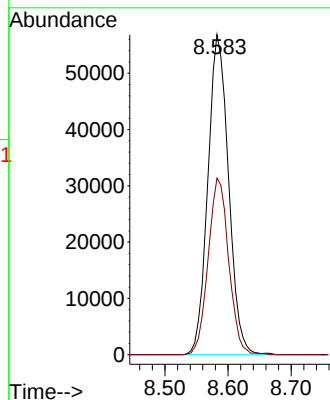
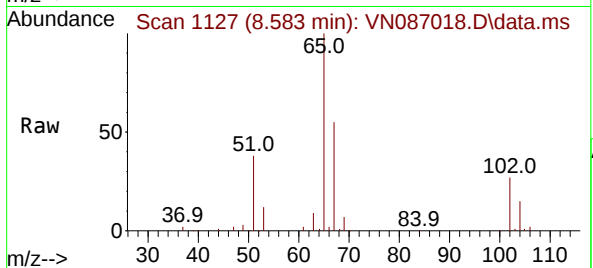
VN0616MBL01

Tgt Ion: 65 Resp: 129256

Ion Ratio Lower Upper

65 100

67 54.7 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087018.D

Acq: 16 Jun 2025 10:22

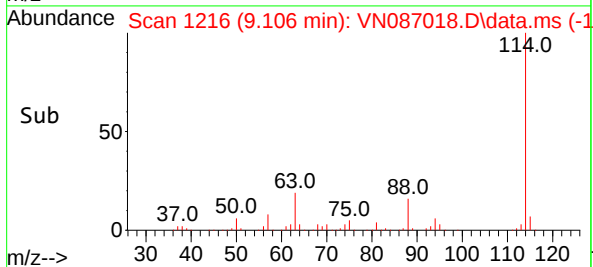
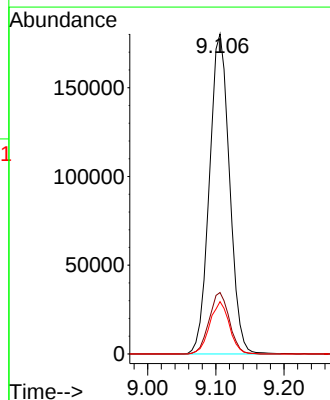
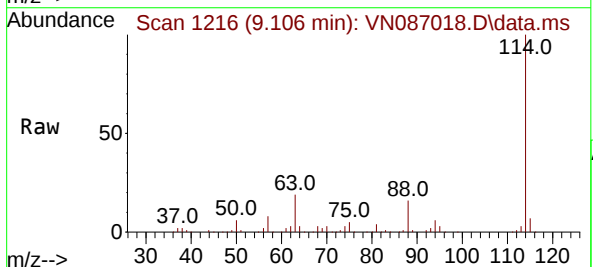
Tgt Ion: 114 Resp: 370208

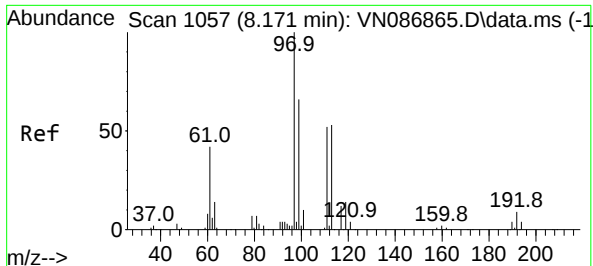
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 16.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.677 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087018.D

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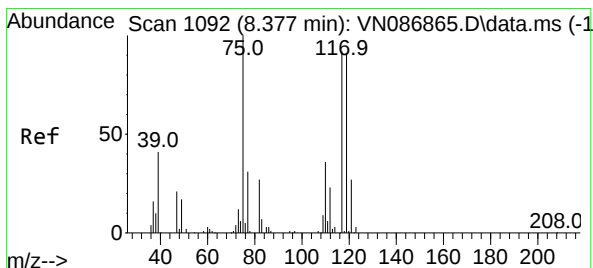
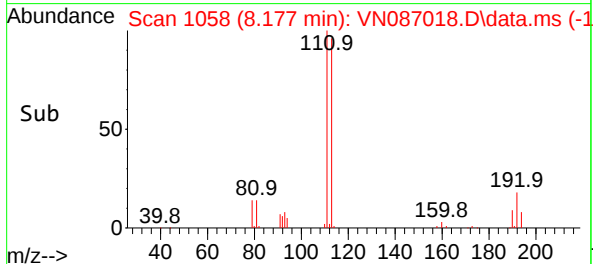
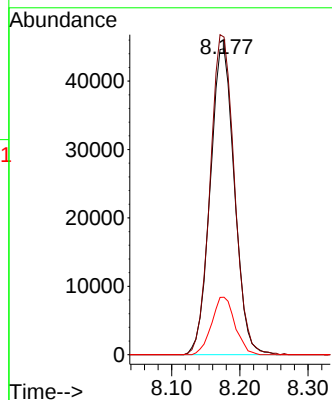
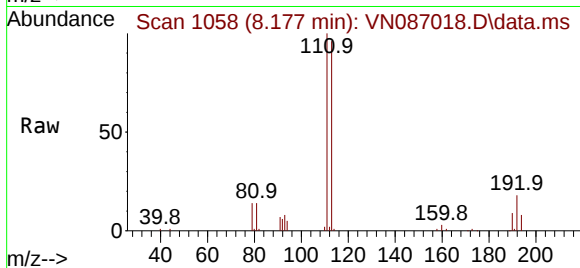
Tgt Ion:113 Resp: 111183

Ion Ratio Lower Upper

113 100

111 103.8 84.2 126.2

192 18.0 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.486 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087018.D

Acq: 16 Jun 2025 10:22

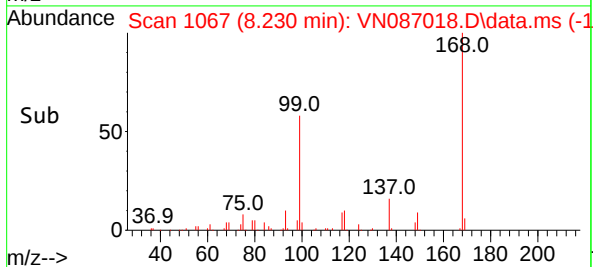
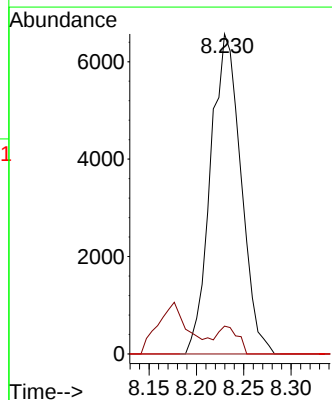
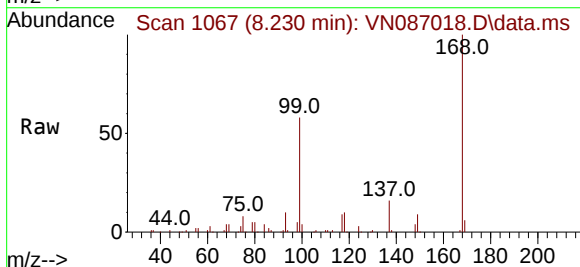
Tgt Ion: 75 Resp: 14665

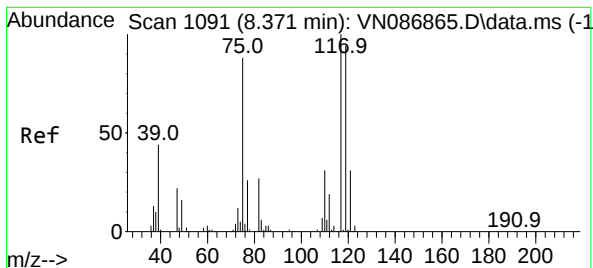
Ion Ratio Lower Upper

75 100

110 5.5 17.6 52.9#

77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 5.746 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN087018.D

Acq: 16 Jun 2025 10:22

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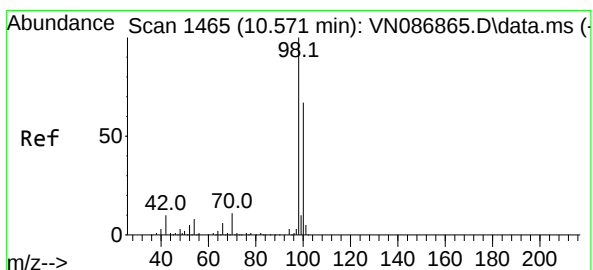
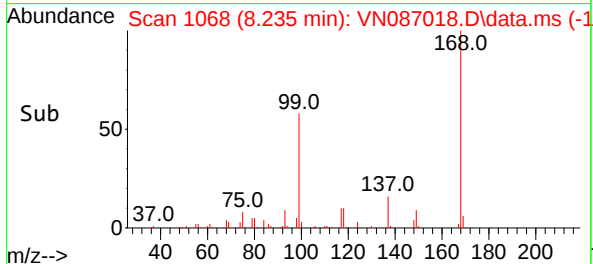
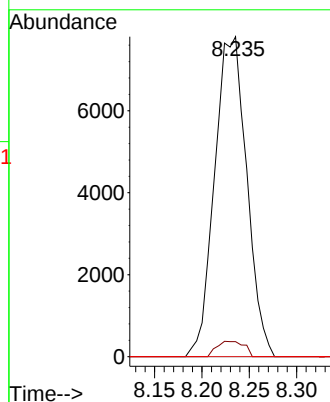
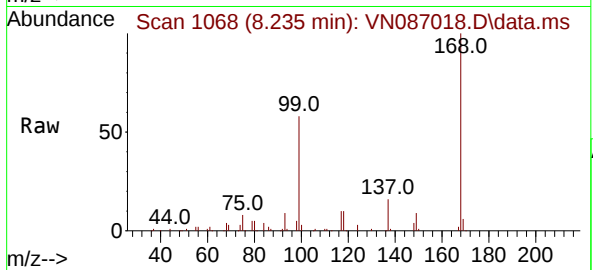
Tgt Ion:117 Resp: 18443

Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.6#

121 0.0 24.9 37.3#



#50

Toluene-d8

Concen: 52.360 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN087018.D

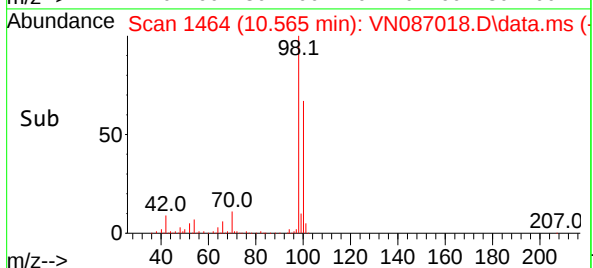
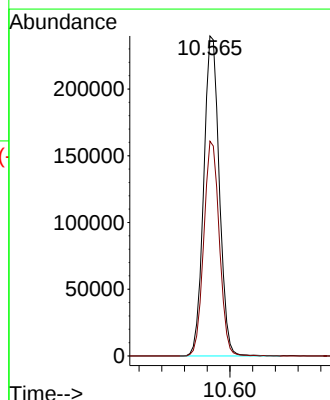
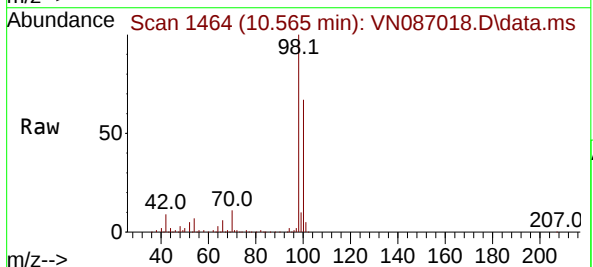
Acq: 16 Jun 2025 10:22

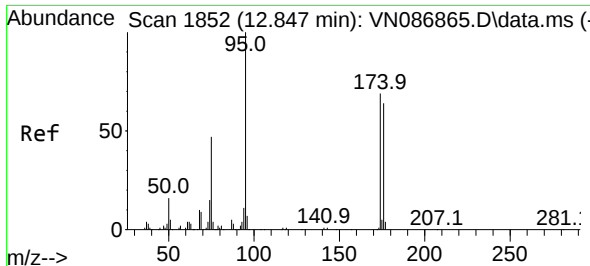
Tgt Ion: 98 Resp: 454757

Ion Ratio Lower Upper

98 100

100 66.8 53.4 80.0

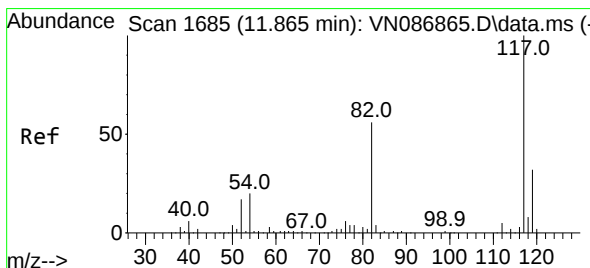
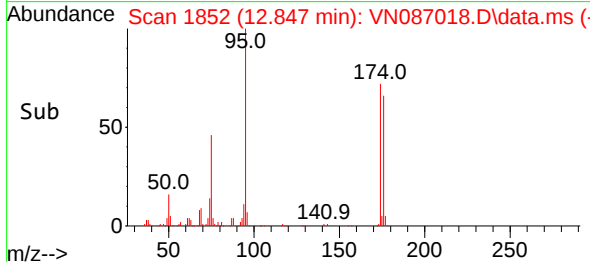
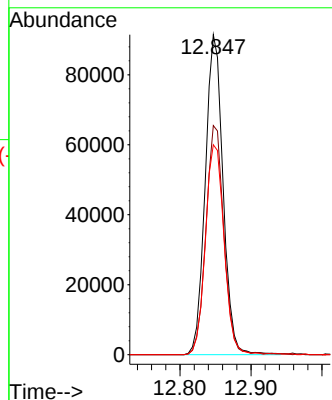
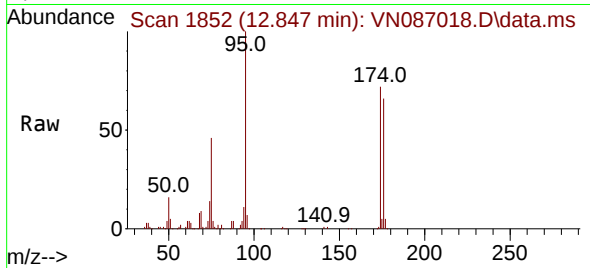




#62
4-Bromofluorobenzene
Concen: 49.421 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

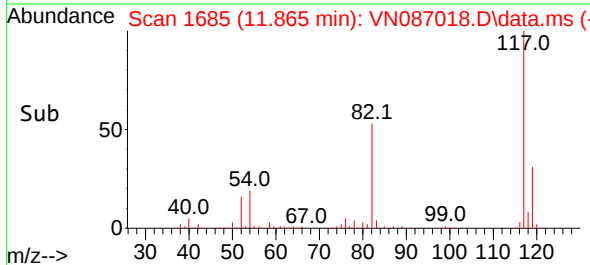
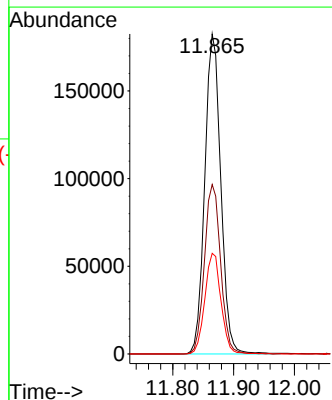
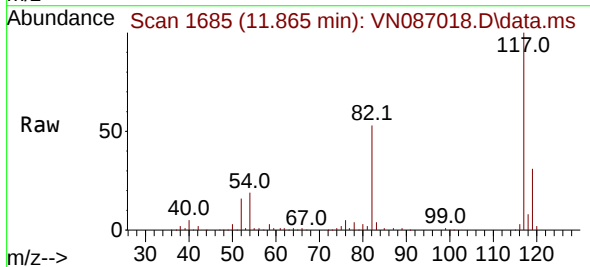
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

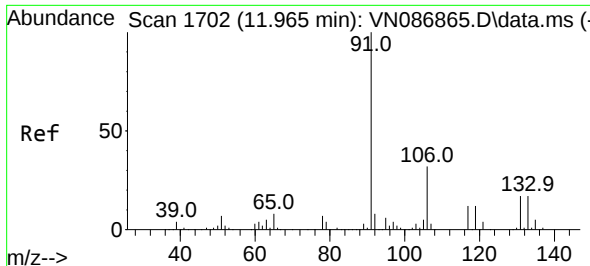
Tgt Ion: 95 Resp: 159474
Ion Ratio Lower Upper
95 100
174 72.6 0.0 141.8
176 68.7 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion: 117 Resp: 334099
Ion Ratio Lower Upper
117 100
82 53.0 44.6 67.0
119 31.4 25.5 38.3

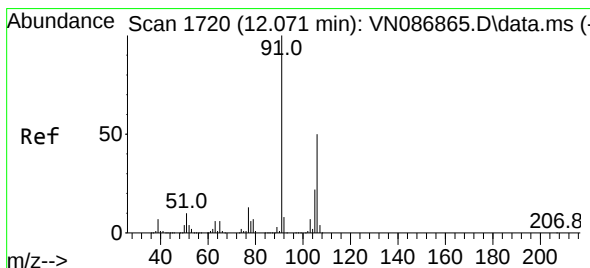
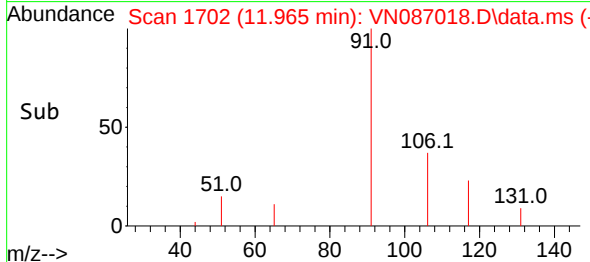
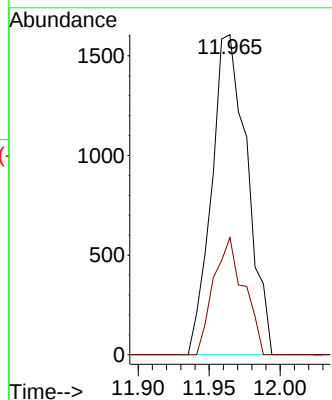
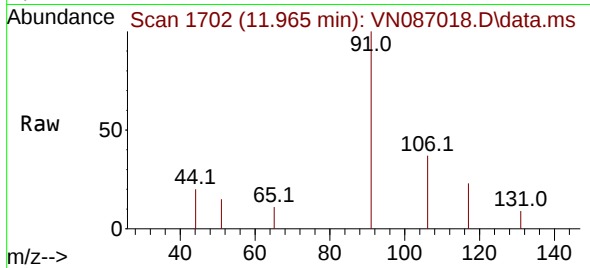




#67
Ethyl Benzene
Concen: 0.220 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

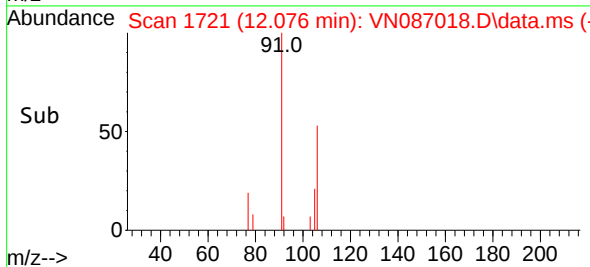
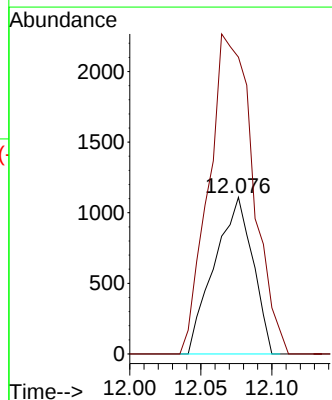
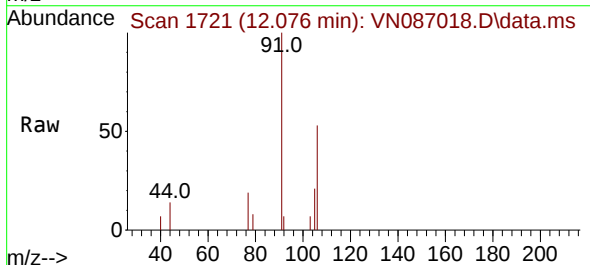
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

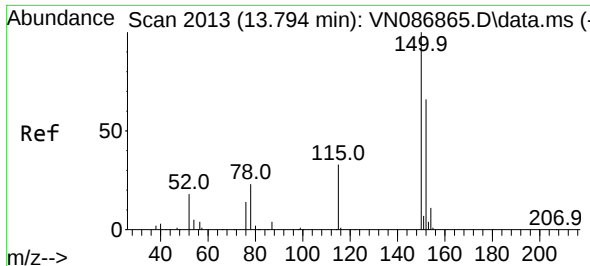
Tgt Ion: 91 Resp: 2795
Ion Ratio Lower Upper
91 100
106 36.6 25.4 38.2



#68
m/p-Xylenes
Concen: 0.429 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion: 106 Resp: 2082
Ion Ratio Lower Upper
106 100
91 235.9 159.4 239.0

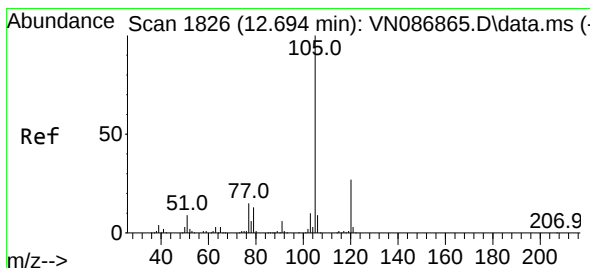
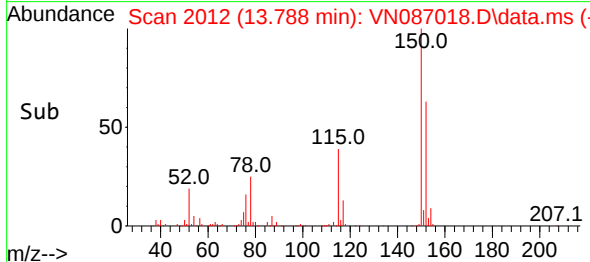
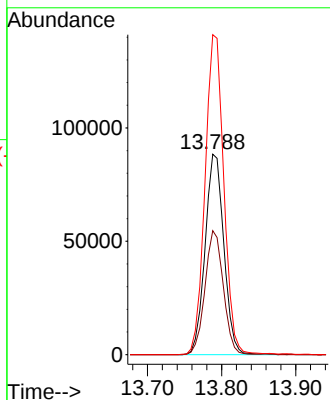
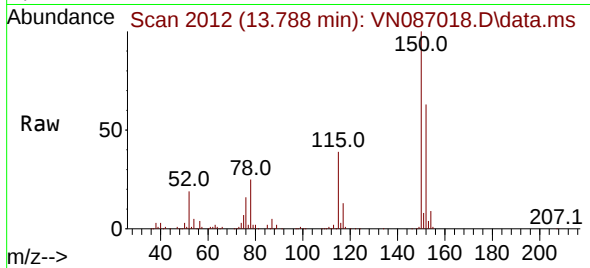




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

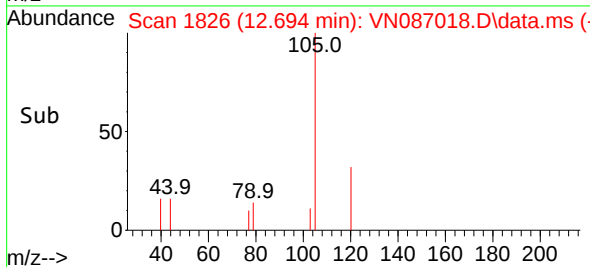
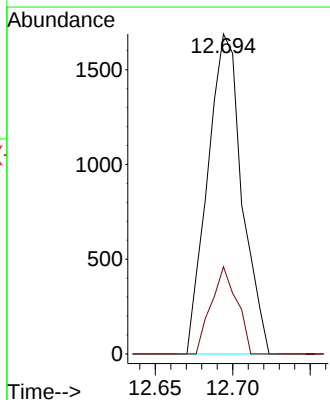
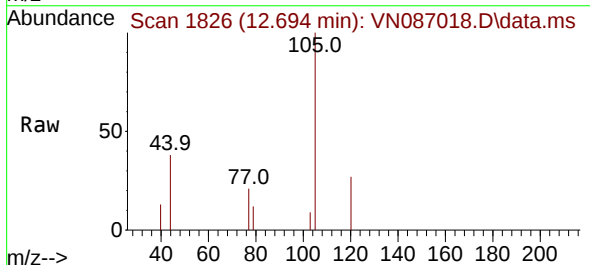
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

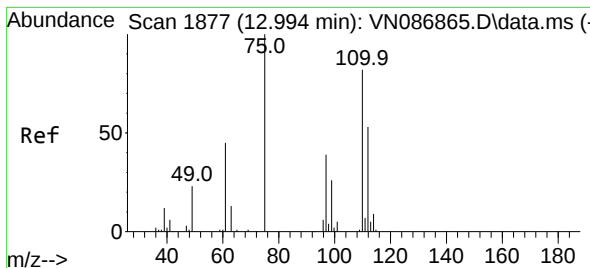
Tgt Ion:152 Resp: 155803
Ion Ratio Lower Upper
152 100
115 60.3 30.1 90.5
150 159.4 0.0 345.0



#73
Isopropylbenzene
Concen: 0.229 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion:105 Resp: 2604
Ion Ratio Lower Upper
105 100
120 20.4 13.5 40.4





#76

1,2,3-Trichloropropane

Concen: 19.656 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087018.D

Acq: 16 Jun 2025 10:22

Instrument :

MSVOA_N

ClientSampleId :

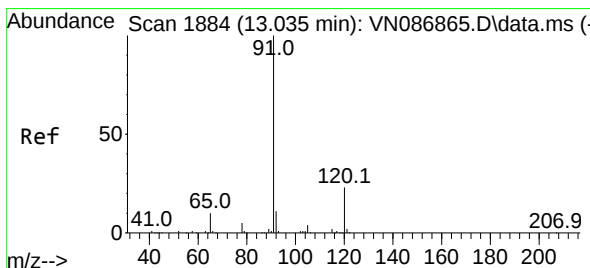
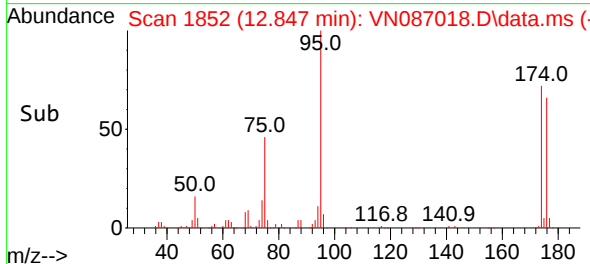
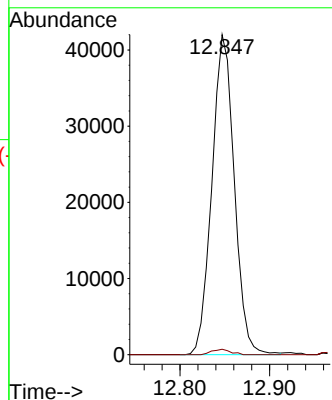
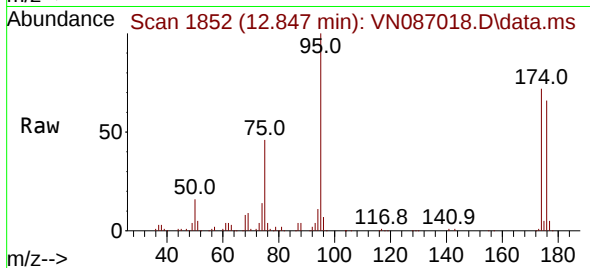
VN0616MBL01

Tgt Ion: 75 Resp: 72795

Ion Ratio Lower Upper

75 100

77 1.4 79.3 237.9#



#78

n-propylbenzene

Concen: 0.270 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN087018.D

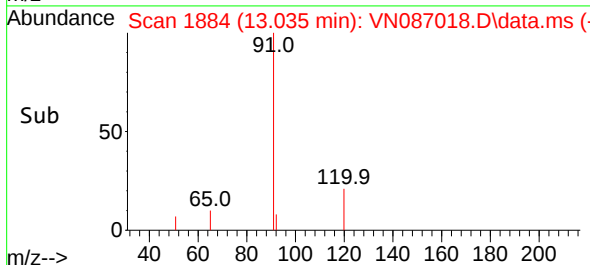
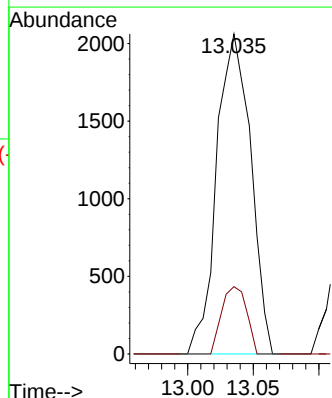
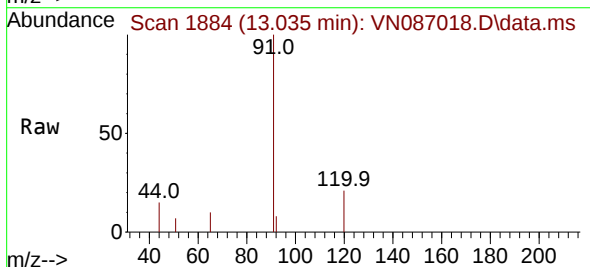
Acq: 16 Jun 2025 10:22

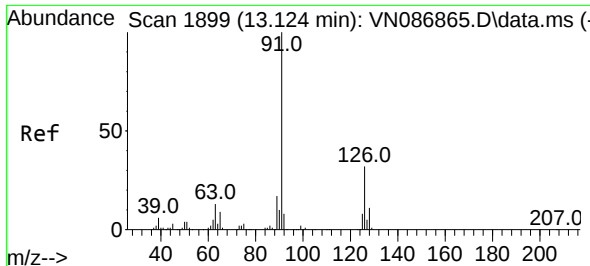
Tgt Ion: 91 Resp: 3723

Ion Ratio Lower Upper

91 100

120 15.4 11.4 34.2

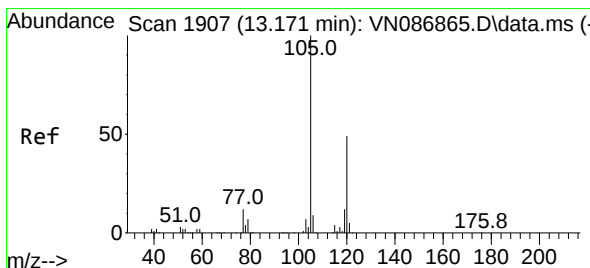
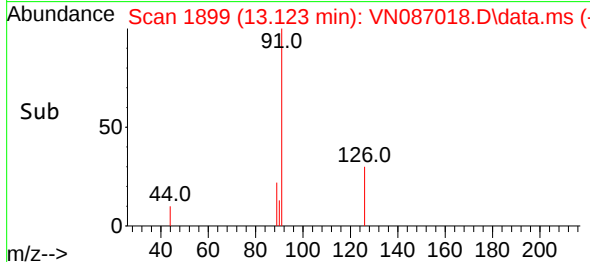
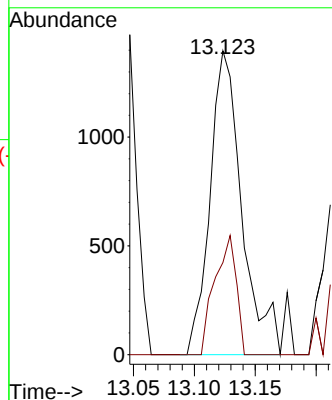
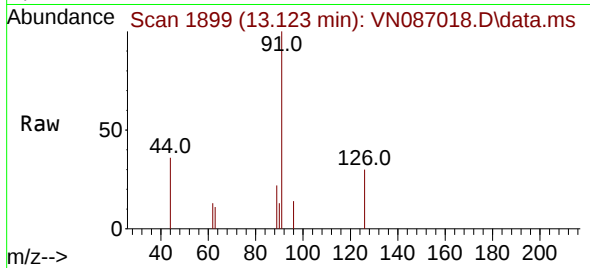




#79
2-Chlorotoluene
Concen: 0.307 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

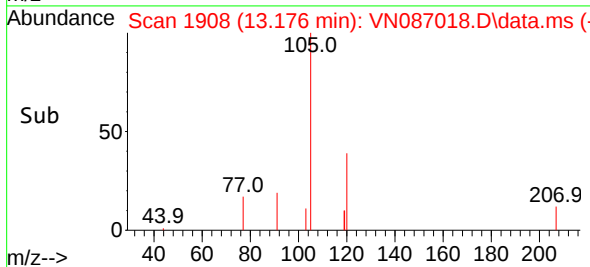
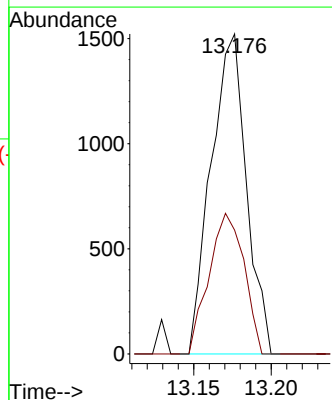
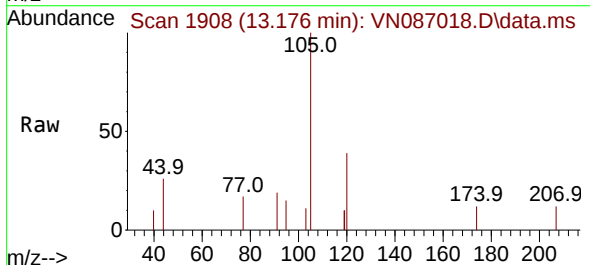
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

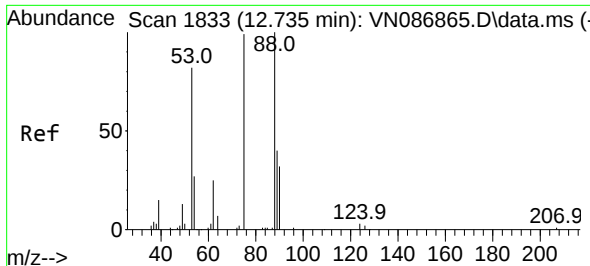
Tgt Ion: 91 Resp: 2537
Ion Ratio Lower Upper
91 100
126 26.5 16.2 48.5



#80
1,3,5-Trimethylbenzene
Concen: 0.257 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion: 105 Resp: 2411
Ion Ratio Lower Upper
105 100
120 43.6 24.9 74.6

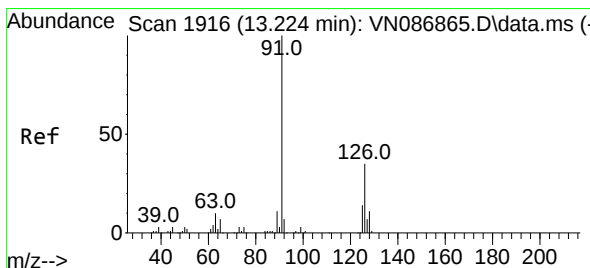
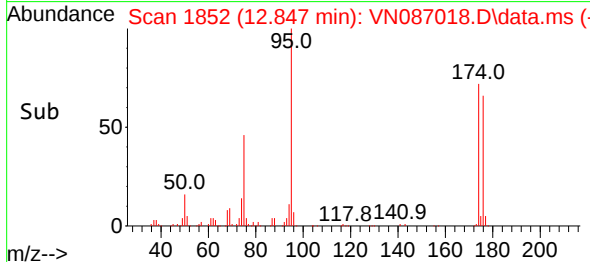
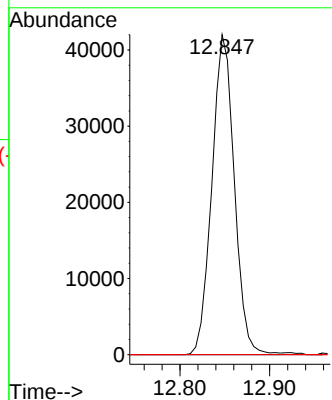
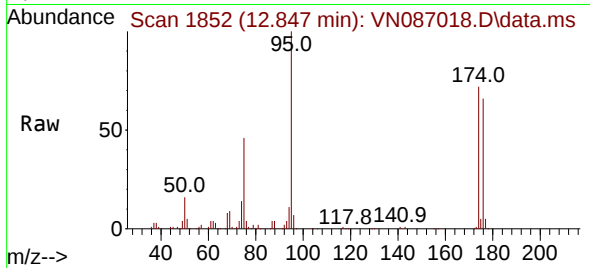




#81
trans-1,4-Dichloro-2-butene
Concen: 45.247 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

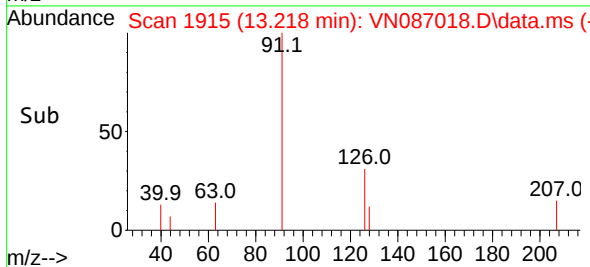
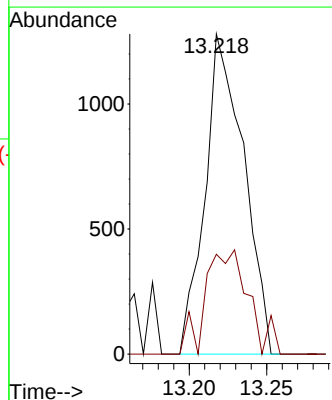
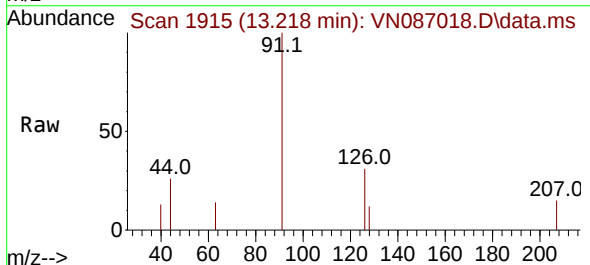
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

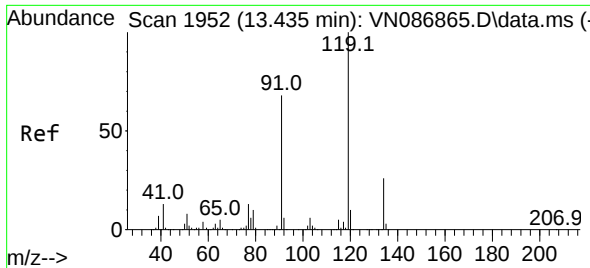
Tgt Ion: 75 Resp: 72795
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#82
4-Chlorotoluene
Concen: 0.266 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion: 91 Resp: 2223
Ion Ratio Lower Upper
91 100
126 36.4 16.7 50.1

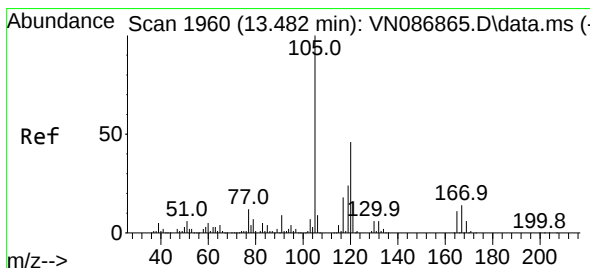
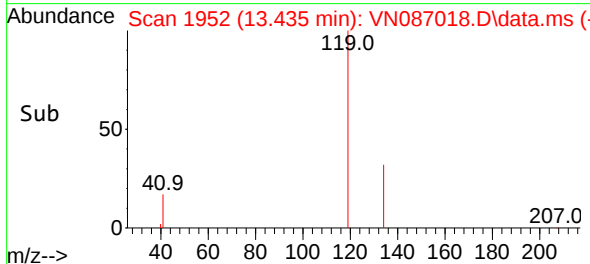
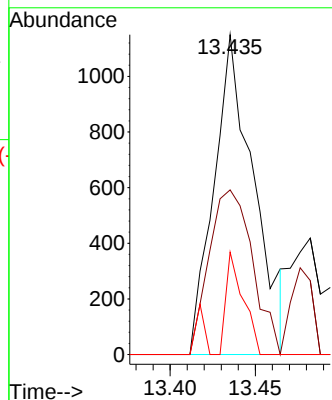
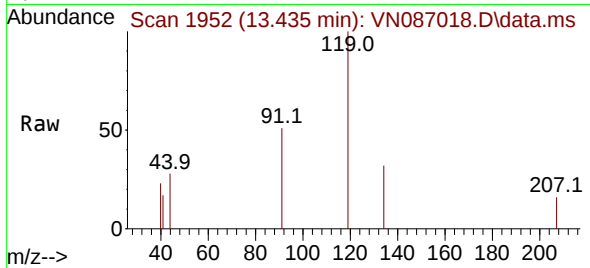




#83
 tert-Butylbenzene
 Concen: 0.219 ug/l
 RT: 13.435 min Scan# 1952
 Delta R.T. -0.000 min
 Lab File: VN087018.D
 Acq: 16 Jun 2025 10:22

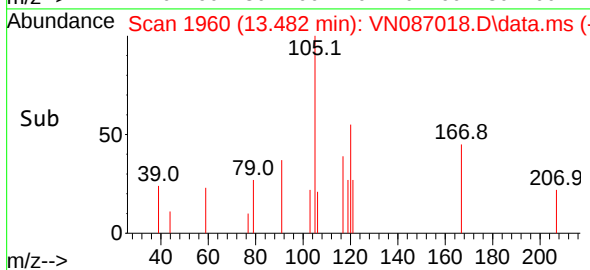
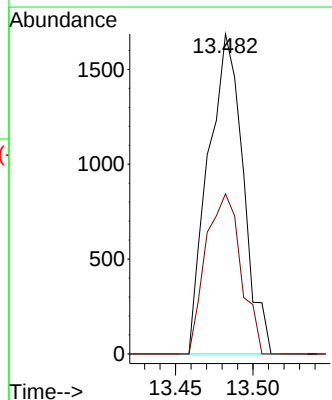
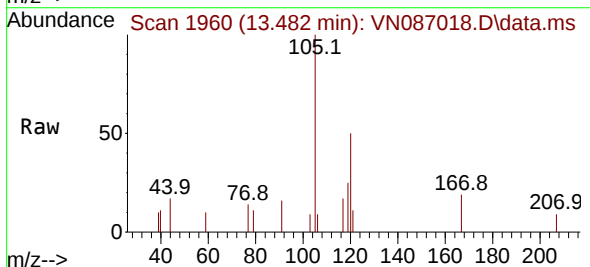
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616MBL01

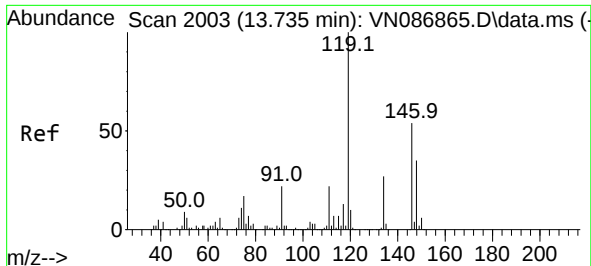
Tgt Ion:119	Resp:	1876
Ion	Ratio	Lower Upper
119	100	
91	55.8	32.1 96.5
134	13.9	13.4 40.1



#84
 1,2,4-Trimethylbenzene
 Concen: 0.281 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. -0.000 min
 Lab File: VN087018.D
 Acq: 16 Jun 2025 10:22

Tgt Ion:105	Resp:	2639
Ion	Ratio	Lower Upper
105	100	
120	50.5	23.2 69.6

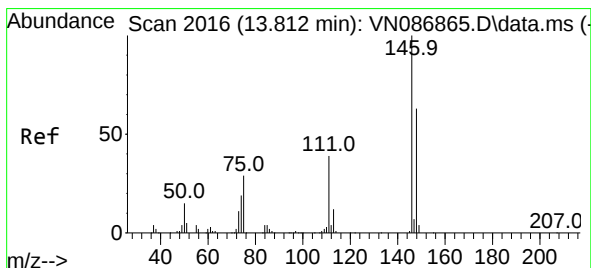
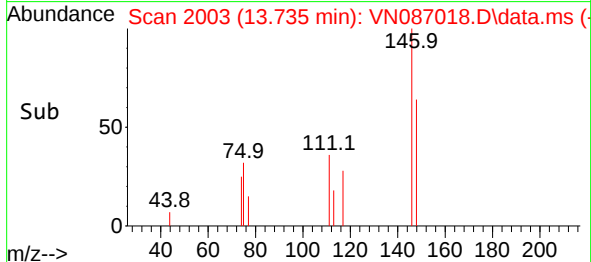
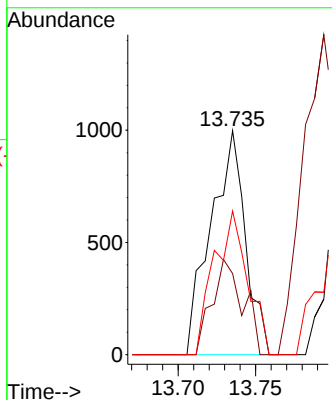
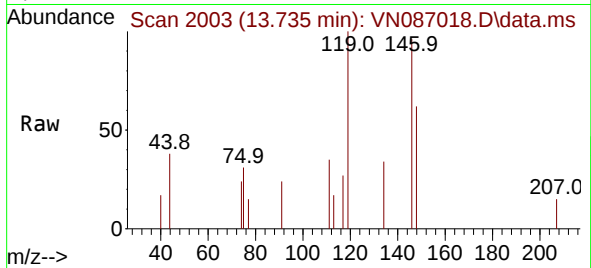




#87
1,3-Dichlorobenzene
Concen: 0.302 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

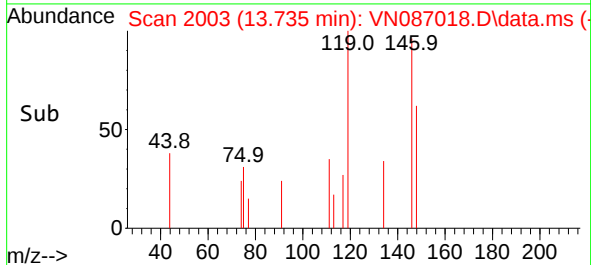
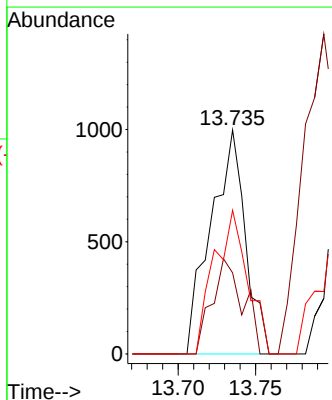
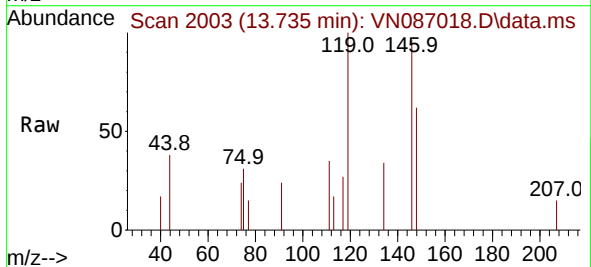
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

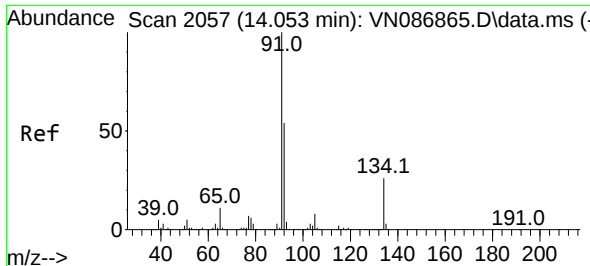
Tgt Ion:146 Resp: 1547
Ion Ratio Lower Upper
146 100
111 38.2 20.9 62.8
148 62.3 32.0 96.2



#88
1,4-Dichlorobenzene
Concen: 0.296 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.077 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion:146 Resp: 1547
Ion Ratio Lower Upper
146 100
111 38.2 19.9 59.7
148 62.3 31.8 95.4

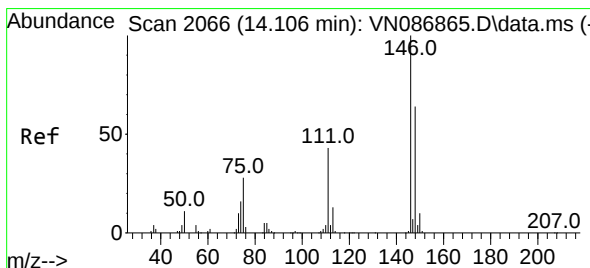
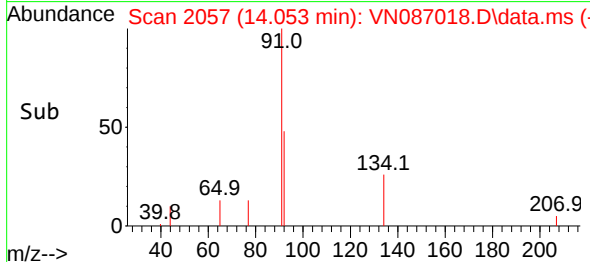
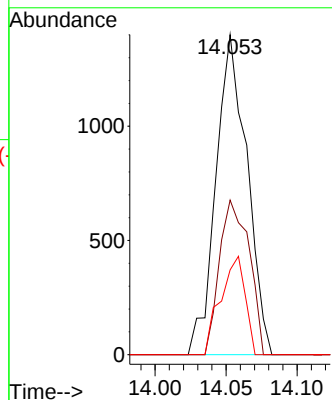
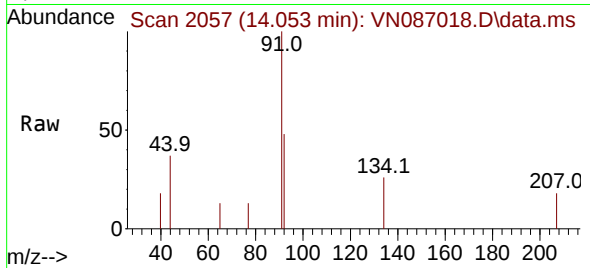




#89
n-Butylbenzene
Concen: 0.214 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

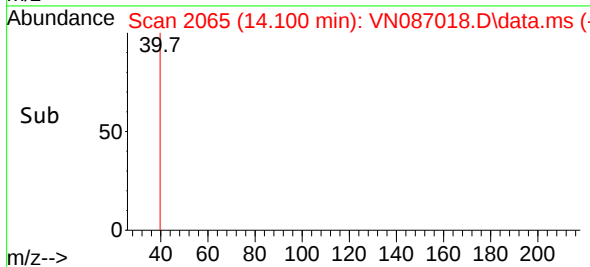
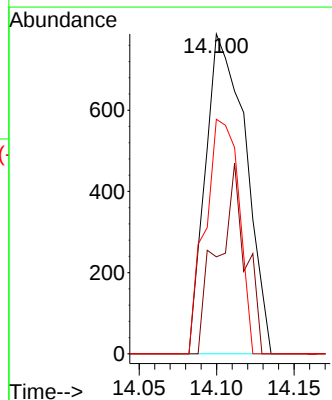
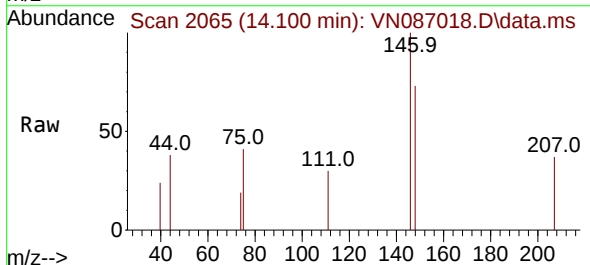
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

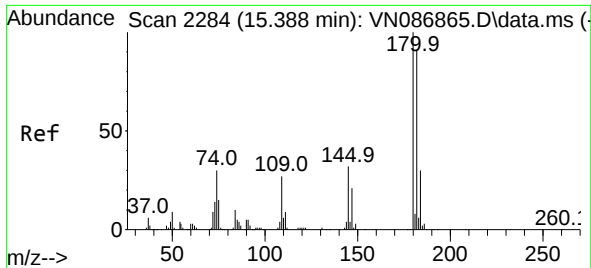
Tgt Ion:	91	Resp:	2134
Ion	Ratio	Lower	Upper
91	100		
92	46.1	27.5	82.4
134	24.3	13.0	39.0



#91
1,2-Dichlorobenzene
Concen: 0.288 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion:	146	Resp:	1417
Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.6	64.6
148	61.6	31.7	95.1

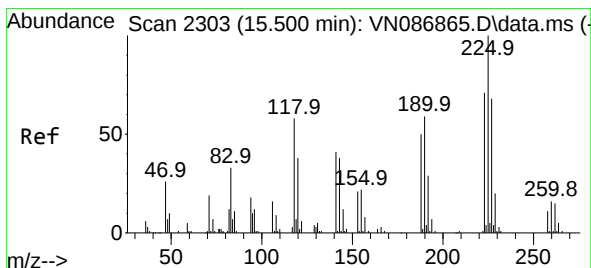
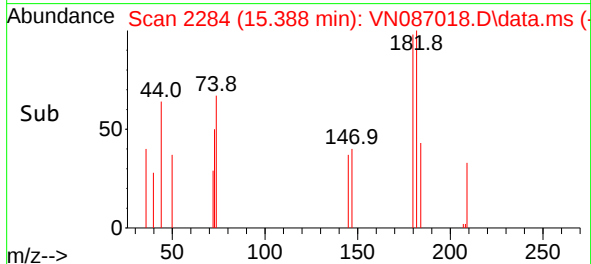
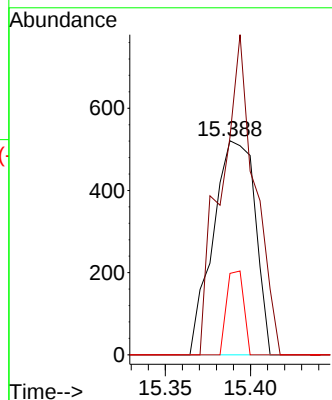
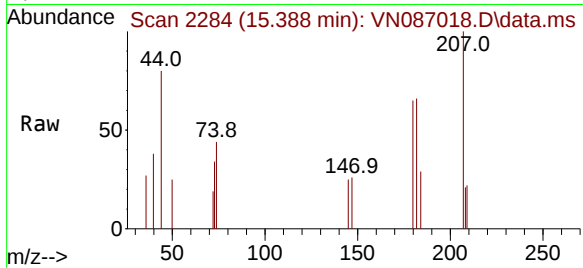




#93
1,2,4-Trichlorobenzene
Concen: 0.284 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

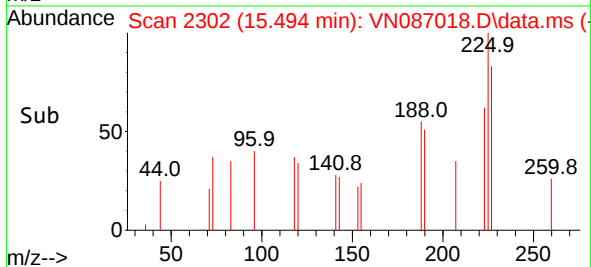
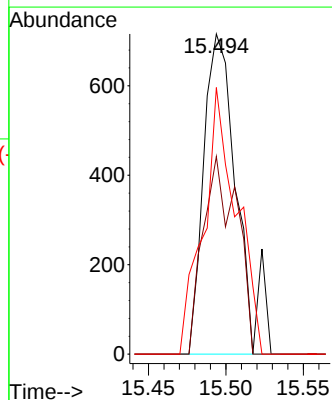
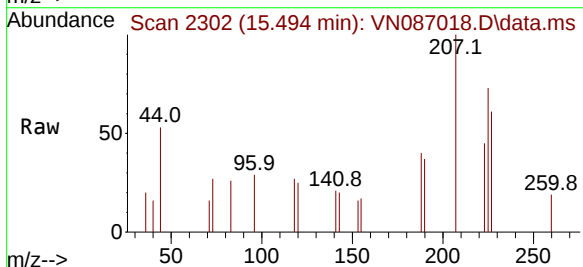
Instrument :
MSVOA_N
ClientSampleId :
VN0616MBL01

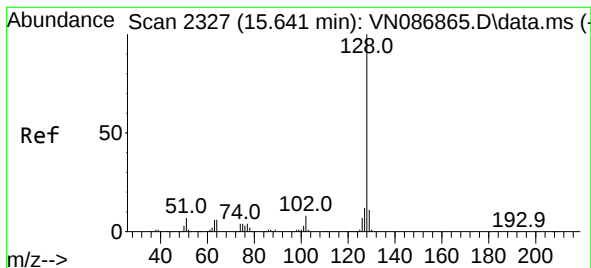
Tgt Ion:180 Resp: 893
Ion Ratio Lower Upper
180 100
182 120.2 46.9 140.7
145 15.9 16.0 47.9#



#94
Hexachlorobutadiene
Concen: 0.918 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087018.D
Acq: 16 Jun 2025 10:22

Tgt Ion:225 Resp: 1075
Ion Ratio Lower Upper
225 100
223 62.4 33.5 100.4
227 82.3 31.1 93.5





#95

Naphthalene

Concen: 0.430 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087018.D

Acq: 16 Jun 2025 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN0616MBL01

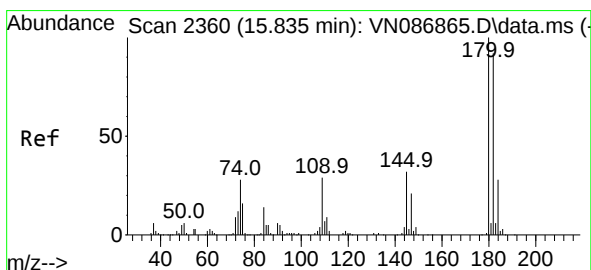
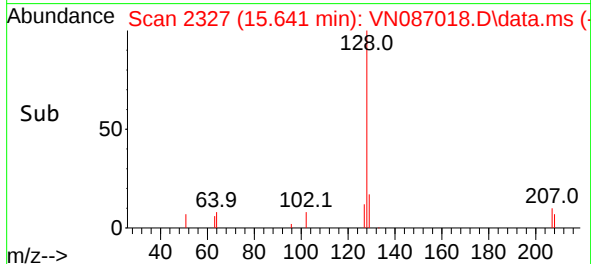
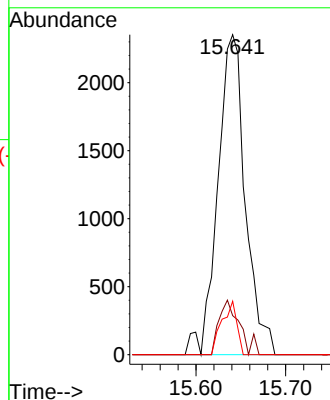
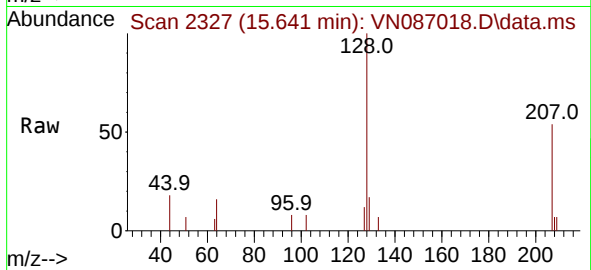
Tgt Ion:128 Resp: 5027

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 9.1 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.387 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN087018.D

Acq: 16 Jun 2025 10:22

Tgt Ion:180 Resp: 1207

Ion Ratio Lower Upper

180 100

182 82.4 47.0 141.0

145 34.2 16.6 49.8

