

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050925\
 Data File : VN086567.D
 Acq On : 09 May 2025 17:20
 Operator : JC\MD
 Sample : Q1980-04DL2 100X
 Misc : 1.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3848DL2

Quant Time: May 09 23:31:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	217075	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	397488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	380054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	170213	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	142174	45.166	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.340%
35) Dibromofluoromethane	8.165	113	115437	62.574	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	125.140%#
50) Toluene-d8	10.565	98	498146	50.525	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.040%
62) 4-Bromofluorobenzene	12.847	95	185335	51.537	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.080%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1101	0.294	ug/l #	58
13) Acrolein	4.183	56	59	Below Cal	#	13
16) Acetone	4.436	43	2555	Below Cal		99
18) Methyl Acetate	5.030	43	1090	0.288	ug/l #	51
31) Cyclohexane	8.218	56	6372	1.249	ug/l #	42
36) 1,1-Dichloropropene	8.218	75	16650	4.519	ug/l #	50
38) Carbon Tetrachloride	8.224	117	21583	6.151	ug/l #	17
39) Methylcyclohexane	9.588	83	2324	0.531	ug/l #	90
43) Isopropyl Acetate	8.682	43	7607	Below Cal	#	55
48) Methyl methacrylate	9.600	41	1001	0.294	ug/l #	71
52) Toluene	10.629	92	243996	33.123	ug/l	99
53) t-1,3-Dichloropropene	10.623	75	2816	0.634	ug/l #	1
59) 2-Hexanone	11.165	43	729	0.247	ug/l #	23
60) Dibromochloromethane	11.094	129	945	0.325	ug/l #	11
64) Tetrachloroethene	11.100	164	954	0.326	ug/l #	86
67) Ethyl Benzene	11.959	91	35354	2.310	ug/l	100
68) m/p-Xylenes	12.065	106	55982	9.762	ug/l	100
69) o-Xylene	12.394	106	17428	3.073	ug/l	98
71) Bromoform	12.847	173	838	0.398	ug/l #	1
74) N-amyl acetate	12.476	43	1879	0.271	ug/l #	48
76) 1,2,3-Trichloropropane	12.847	75	92948	23.140	ug/l #	1
78) n-propylbenzene	13.029	91	6727	0.410	ug/l	98
79) 2-Chlorotoluene	13.094	91	2711	0.264	ug/l #	43
80) 1,3,5-Trimethylbenzene	13.170	105	5352	0.470	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.847	75	92948	55.574	ug/l #	10
83) tert-Butylbenzene	13.482	119	2196	0.222	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.476	105	19471	1.678	ug/l	99
85) sec-Butylbenzene	13.611	105	3099	0.226	ug/l	97
89) n-Butylbenzene	14.053	91	2258	0.226	ug/l #	84

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

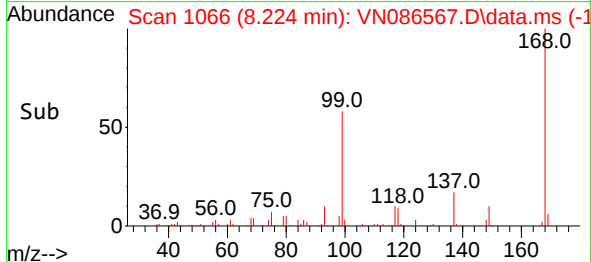
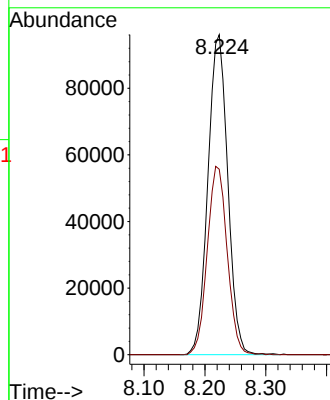
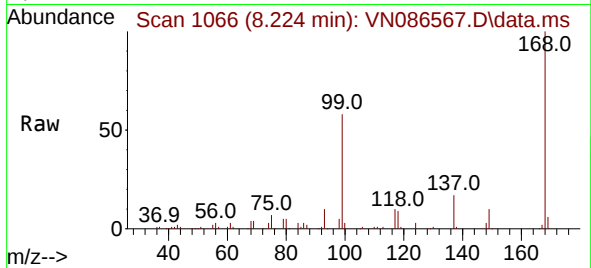




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

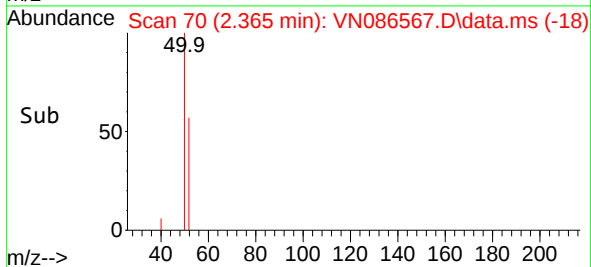
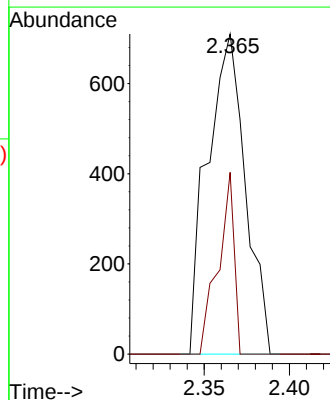
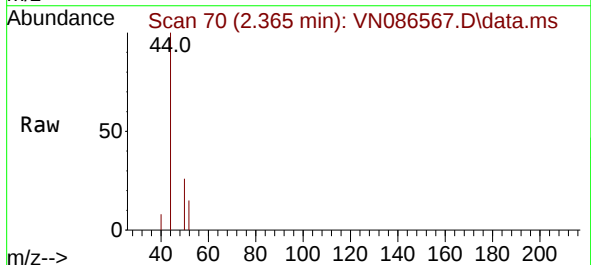
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

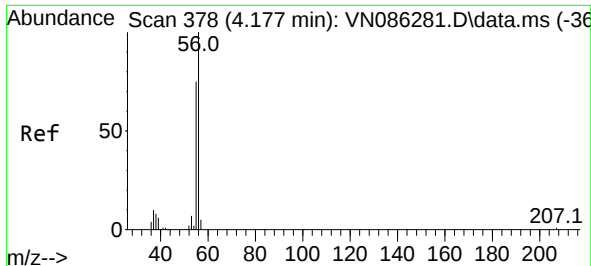
Tgt Ion:168 Resp: 217075
Ion Ratio Lower Upper
168 100
99 58.0 52.5 78.7



#3
Chloromethane
Concen: 0.294 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 50 Resp: 1101
Ion Ratio Lower Upper
50 100
52 56.8 26.5 39.7#

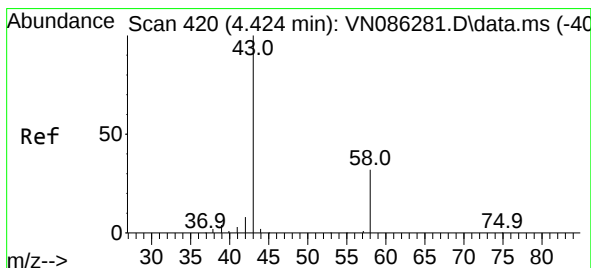
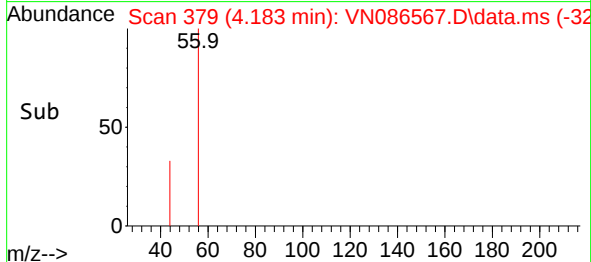
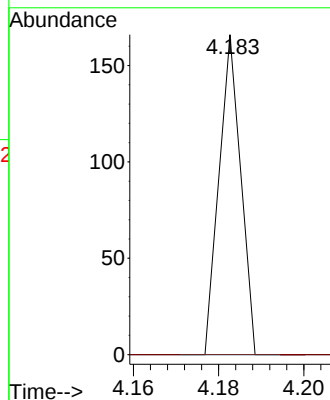
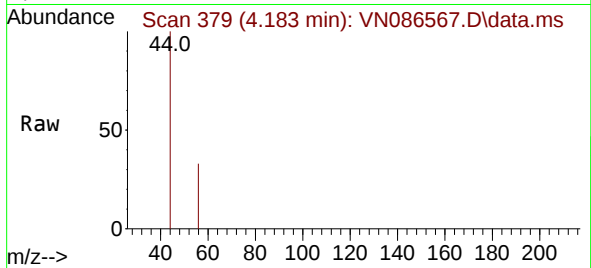




#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

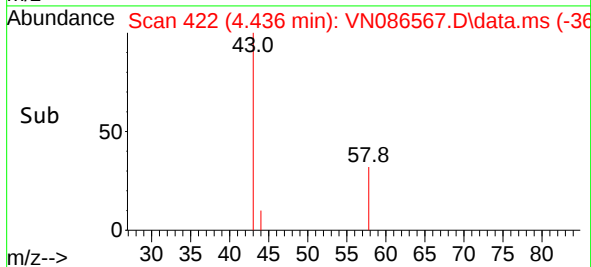
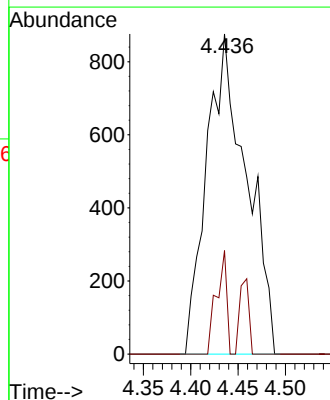
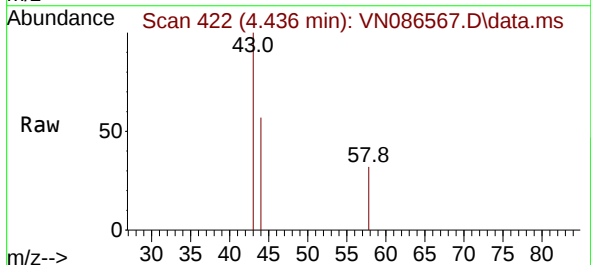
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

Tgt Ion: 56 Resp: 59
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#



#16
Acetone
Concen: Below Cal
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 43 Resp: 2555
Ion Ratio Lower Upper
43 100
58 32.3 25.3 37.9

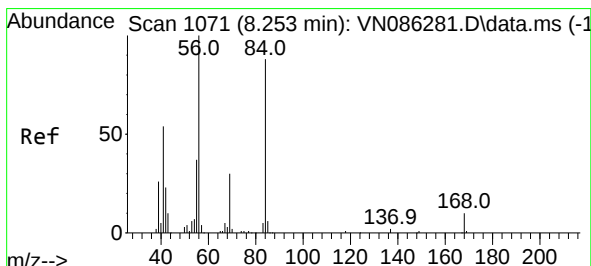
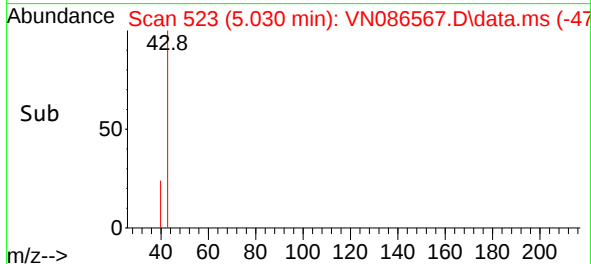
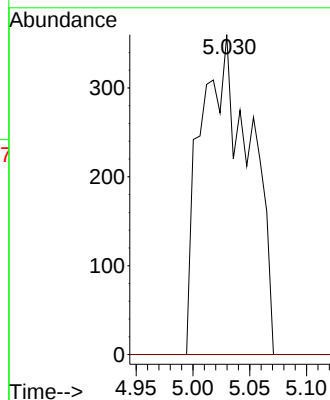
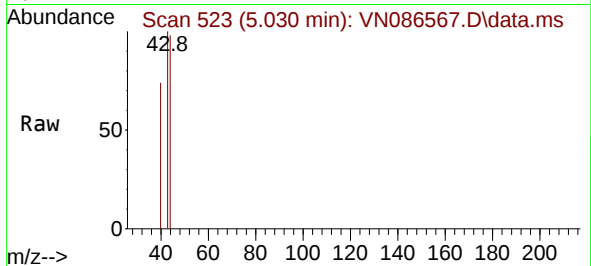




#18
Methyl Acetate
Concen: 0.288 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

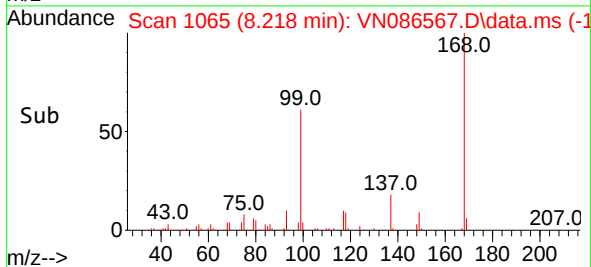
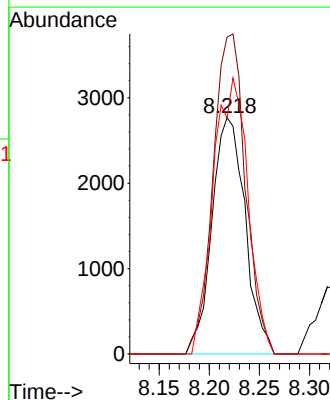
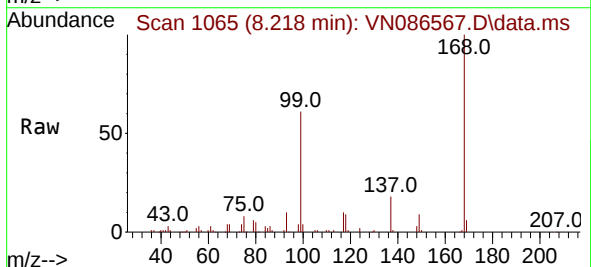
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

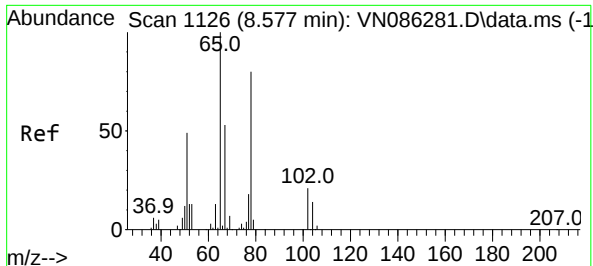
Tgt Ion: 43 Resp: 1090
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#31
Cyclohexane
Concen: 1.249 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 56 Resp: 6372
Ion Ratio Lower Upper
56 100
69 134.1 24.2 36.2#
84 99.7 70.3 105.5





#33

1,2-Dichloroethane-d4

Concen: 45.166 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086567.D

Acq: 09 May 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

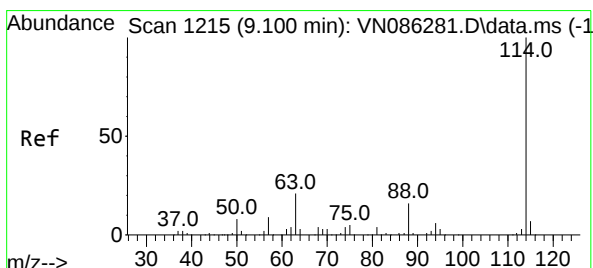
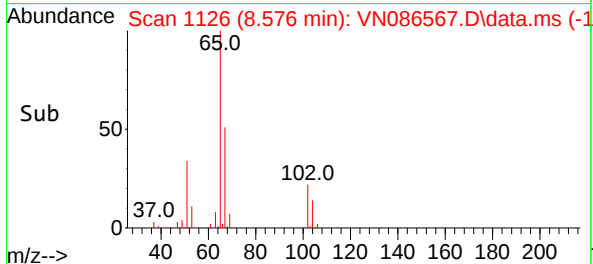
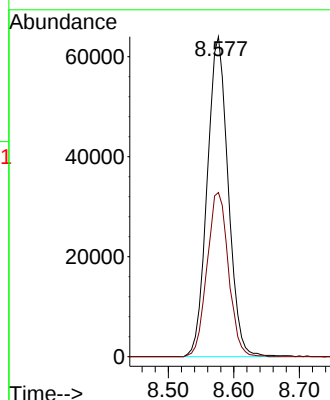
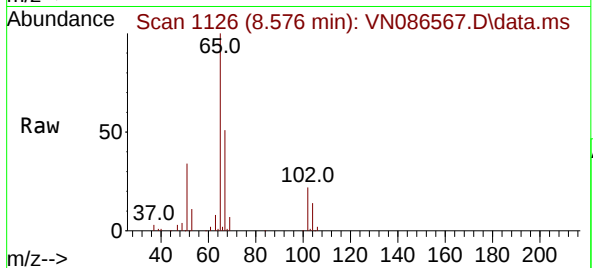
3848DL2

Tgt Ion: 65 Resp: 142174

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086567.D

Acq: 09 May 2025 17:20

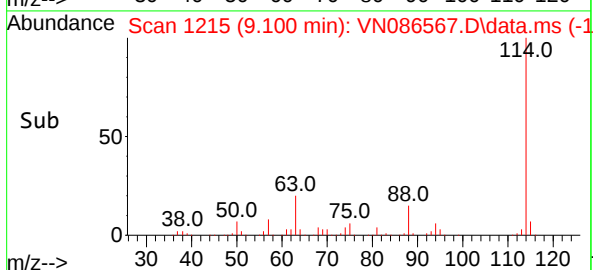
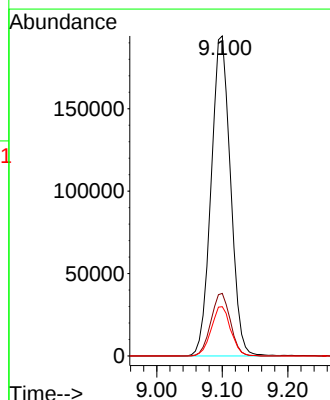
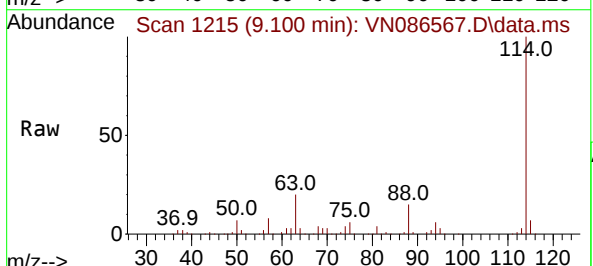
Tgt Ion: 114 Resp: 397488

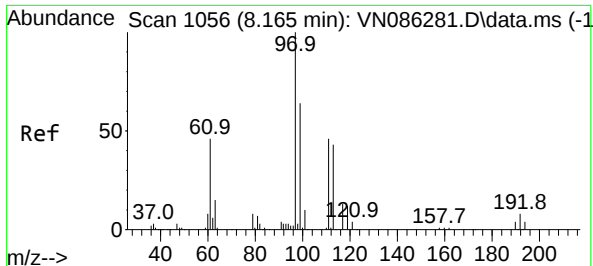
Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 15.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 62.574 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086567.D

Acq: 09 May 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

3848DL2

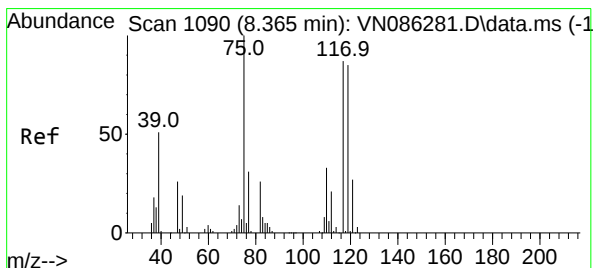
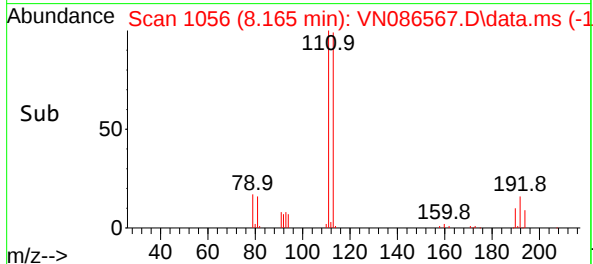
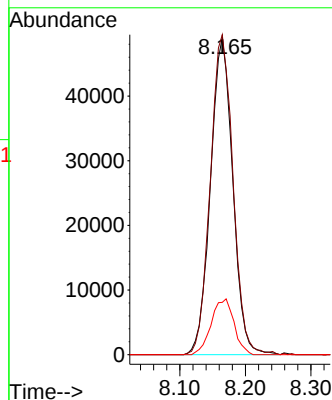
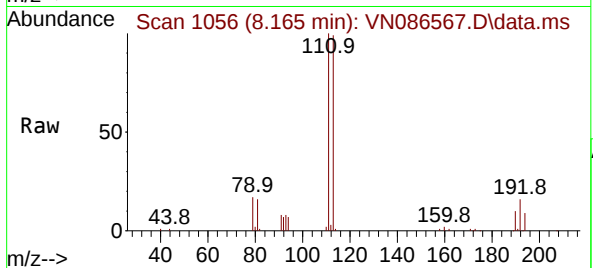
Tgt Ion:113 Resp: 115437

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.0

192 18.0 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.519 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086567.D

Acq: 09 May 2025 17:20

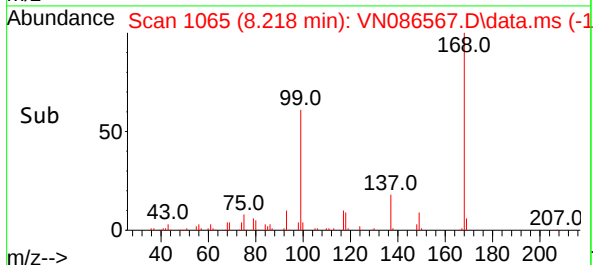
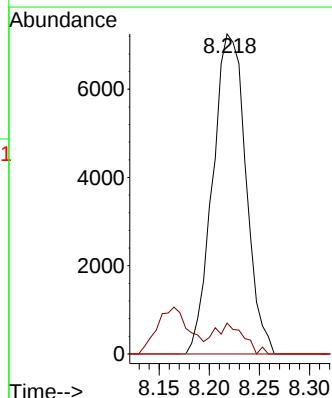
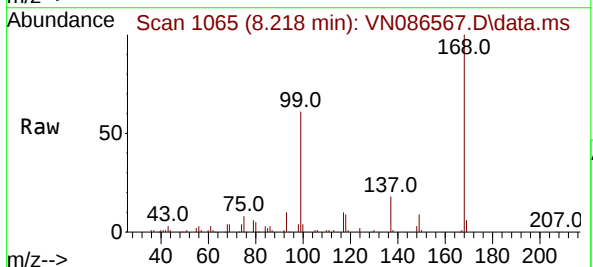
Tgt Ion: 75 Resp: 16650

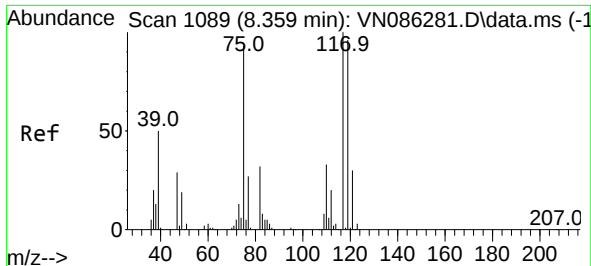
Ion Ratio Lower Upper

75 100

110 8.5 16.8 50.4#

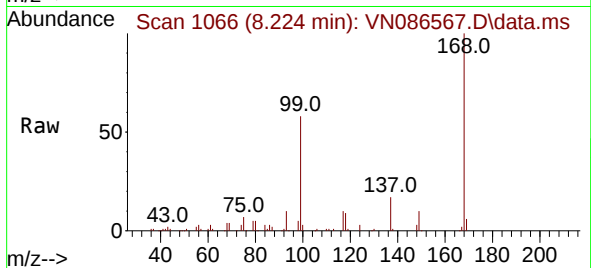
77 0.0 24.9 37.3#



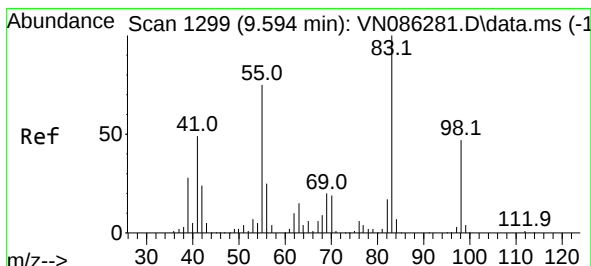
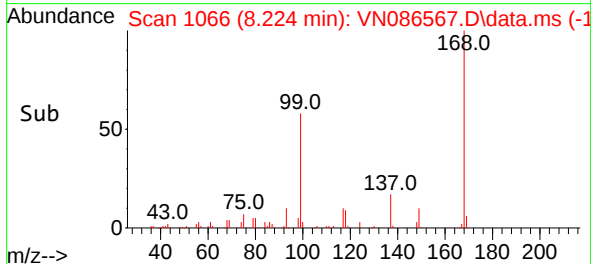
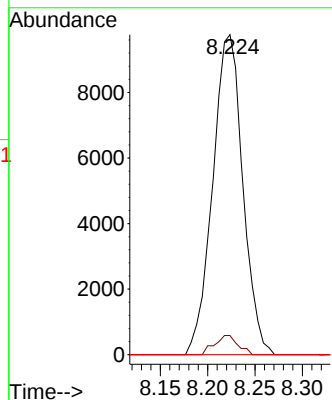


#38
Carbon Tetrachloride
Concen: 6.151 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Instrument :
MSVOA_N
ClientSampleId :
3848DL2

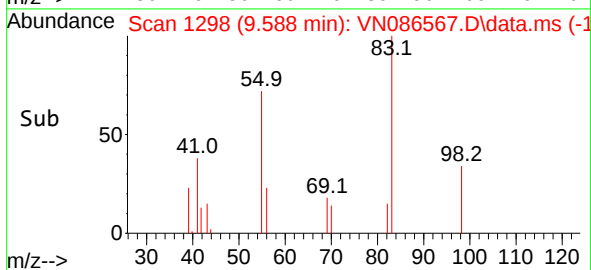
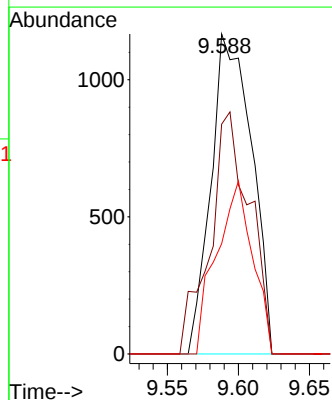
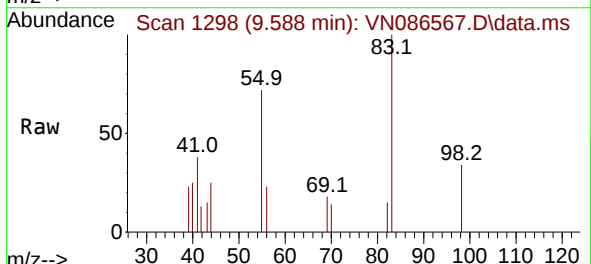


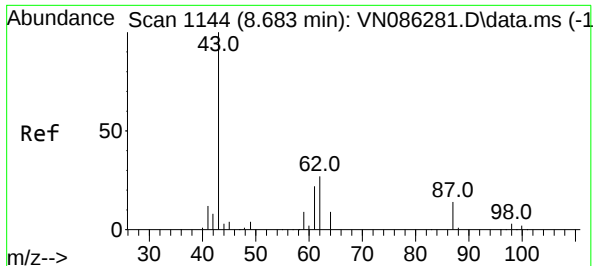
Tgt Ion:117 Resp: 21583
Ion Ratio Lower Upper
117 100
119 6.0 76.8 115.2#
121 0.0 23.8 35.8#



#39
Methylcyclohexane
Concen: 0.531 ug/l
RT: 9.588 min Scan# 1298
Delta R.T. -0.006 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 83 Resp: 2324
Ion Ratio Lower Upper
83 100
55 71.8 59.8 89.8
98 34.4 37.9 56.9#

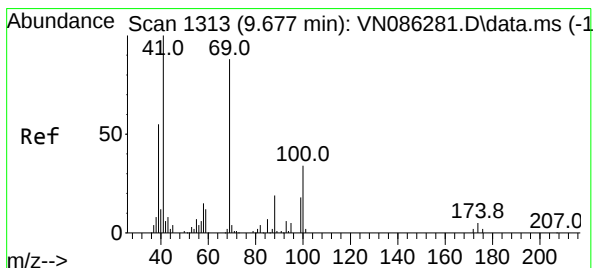
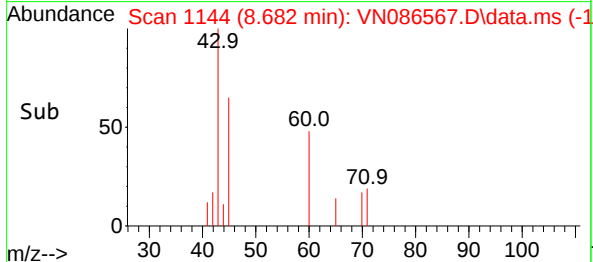
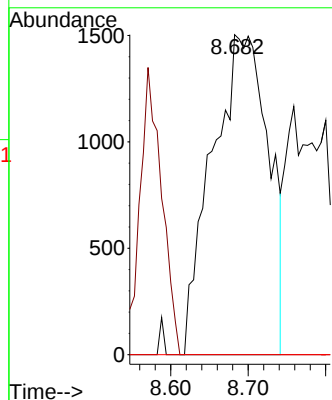
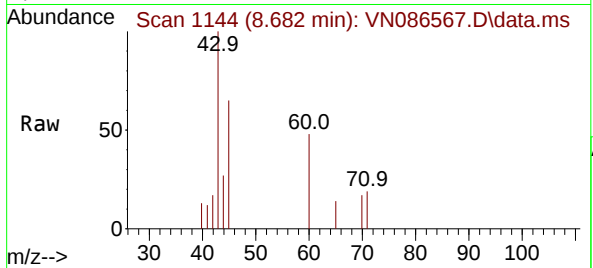




#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

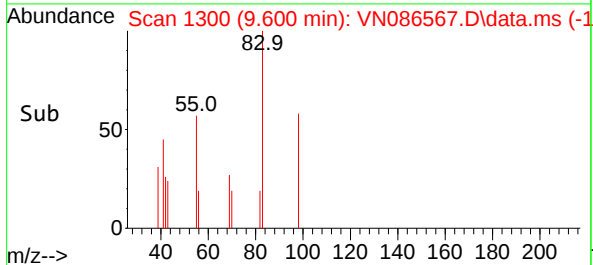
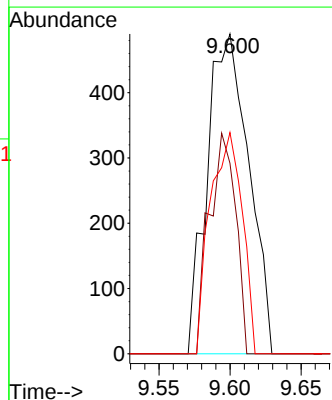
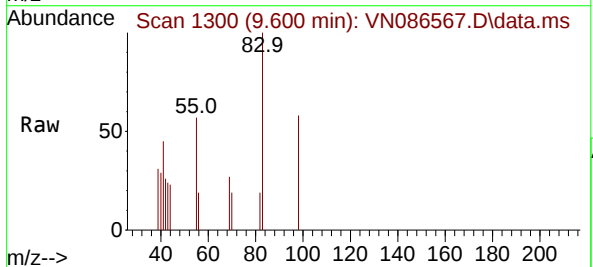
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

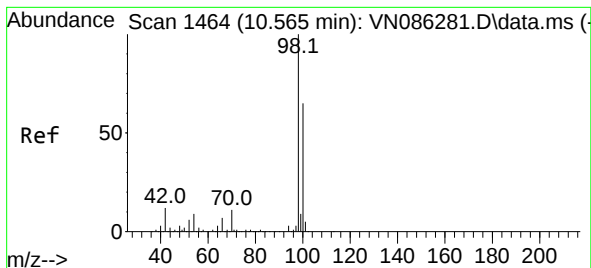
Tgt Ion: 43 Resp: 7607
Ion Ratio Lower Upper
43 100
61 0.0 20.5 30.7#
87 0.0 10.5 15.7#



#48
Methyl methacrylate
Concen: 0.294 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.077 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 41 Resp: 1001
Ion Ratio Lower Upper
41 100
69 43.9 68.2 102.2#
39 53.0 45.2 67.8

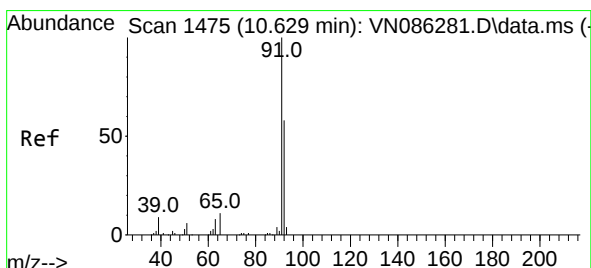
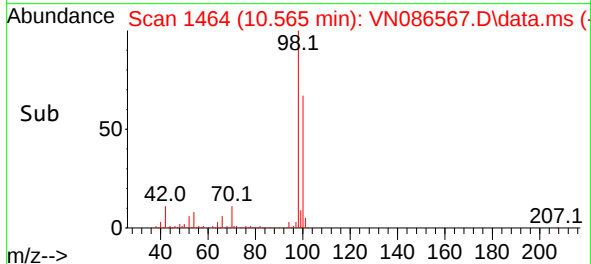
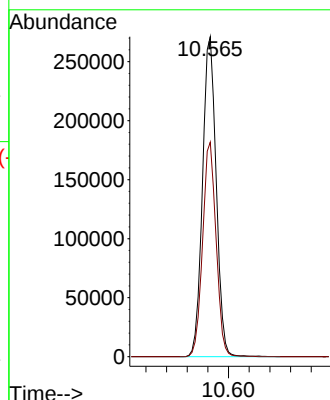
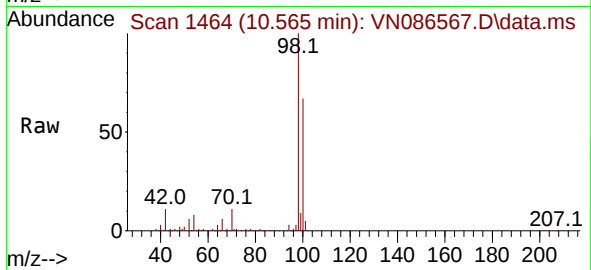




#50
Toluene-d8
Concen: 50.525 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

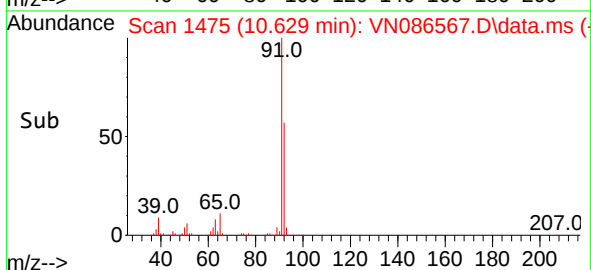
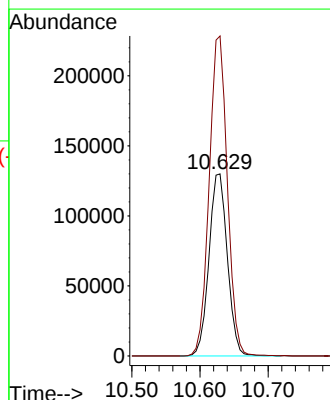
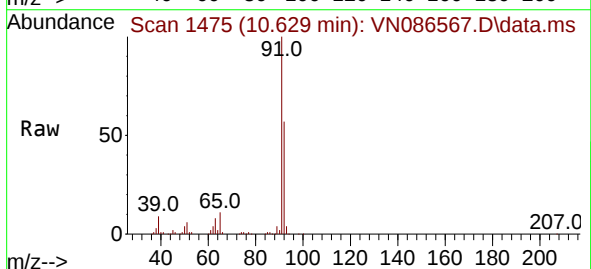
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

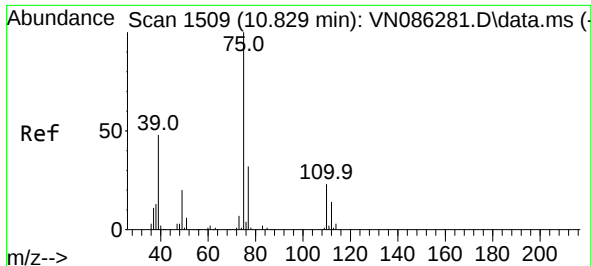
Tgt Ion: 98 Resp: 498146
Ion Ratio Lower Upper
98 100
100 66.0 52.5 78.7



#52
Toluene
Concen: 33.123 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 92 Resp: 243996
Ion Ratio Lower Upper
92 100
91 173.6 137.3 205.9

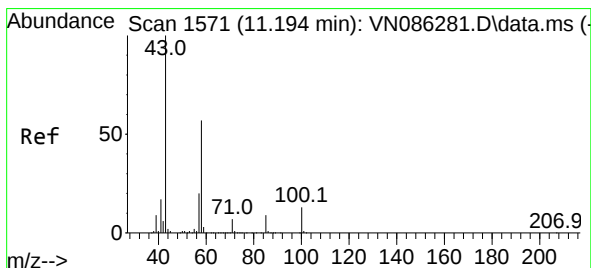
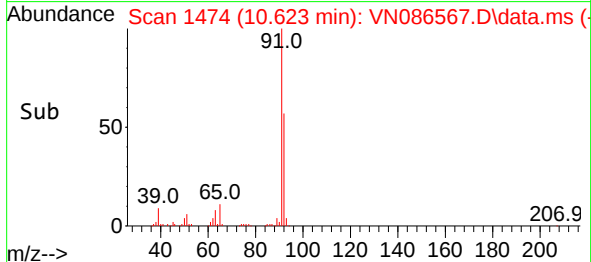
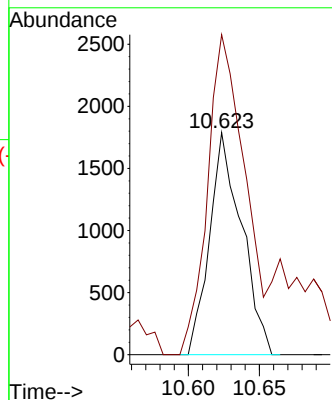
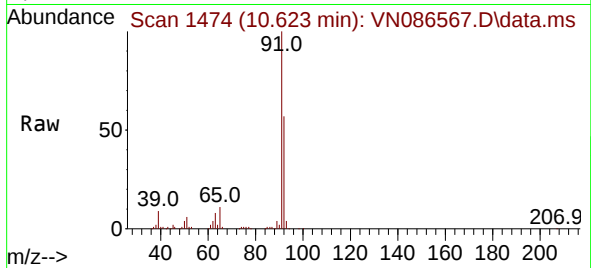




#53
t-1,3-Dichloropropene
Concen: 0.634 ug/l
RT: 10.623 min Scan# 14
Delta R.T. -0.206 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

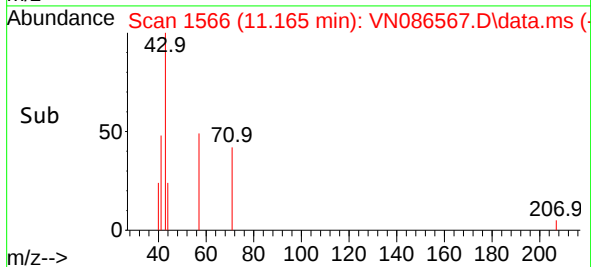
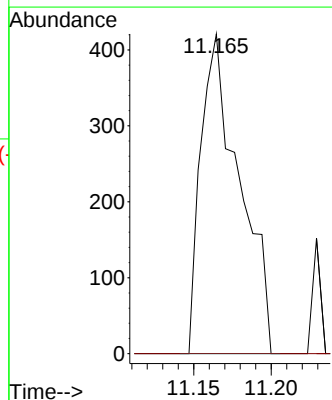
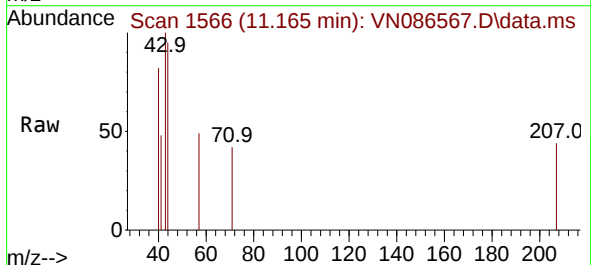
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

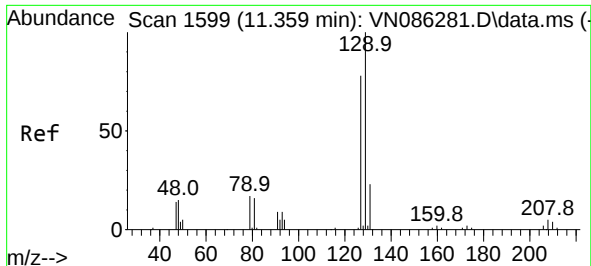
Tgt Ion: 75 Resp: 2816
Ion Ratio Lower Upper
75 100
77 144.0 25.4 38.0#



#59
2-Hexanone
Concen: 0.247 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.030 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
58 0.0 28.3 85.0#

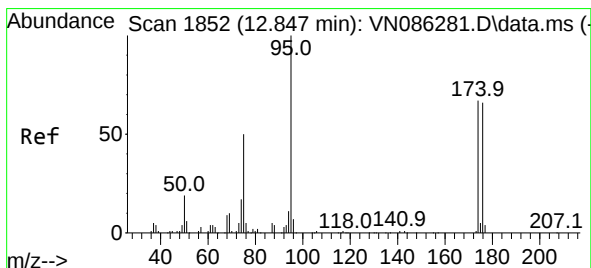
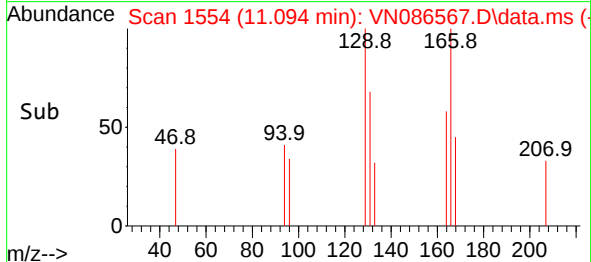
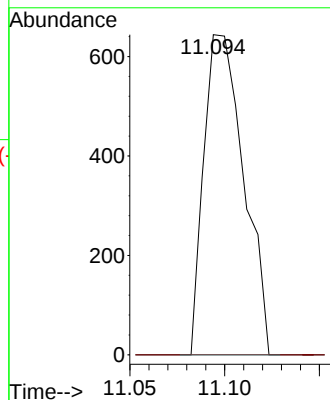
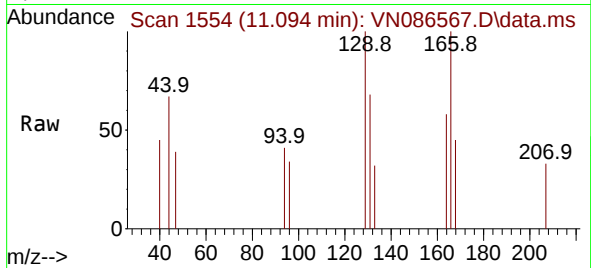




#60
Dibromochloromethane
Concen: 0.325 ug/l
RT: 11.094 min Scan# 11
Delta R.T. -0.265 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

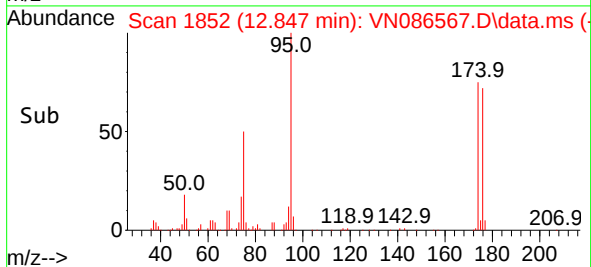
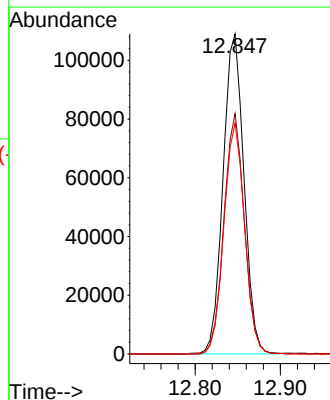
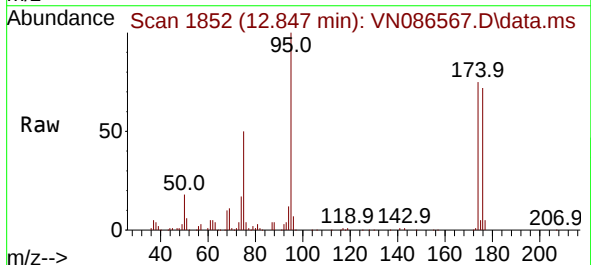
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

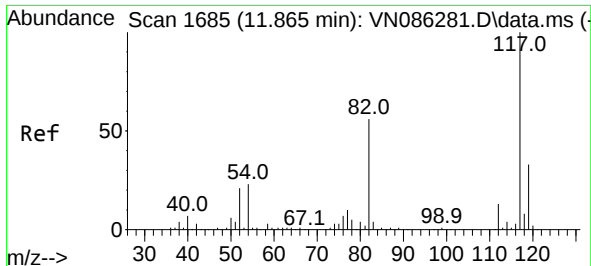
Tgt Ion:129 Resp: 945
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#



#62
4-Bromofluorobenzene
Concen: 51.537 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 95 Resp: 185335
Ion Ratio Lower Upper
95 100
174 73.5 0.0 133.4
176 71.3 0.0 129.2

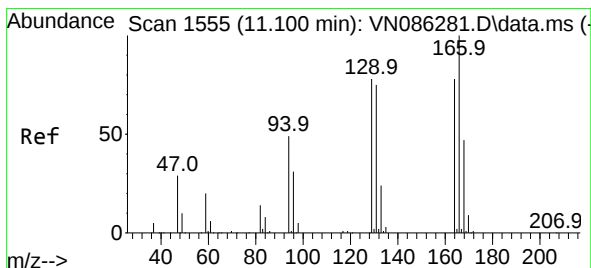
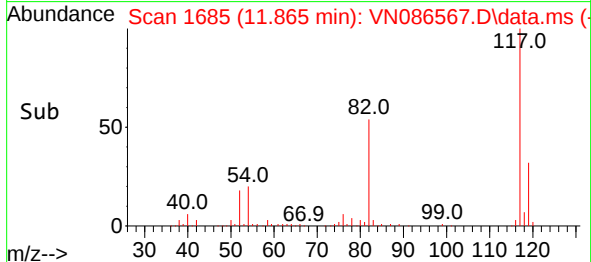
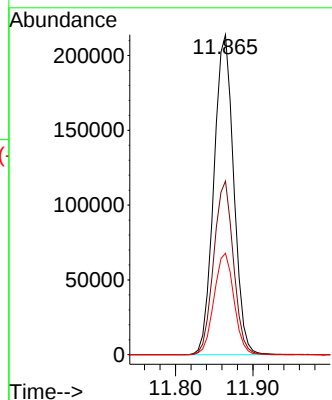
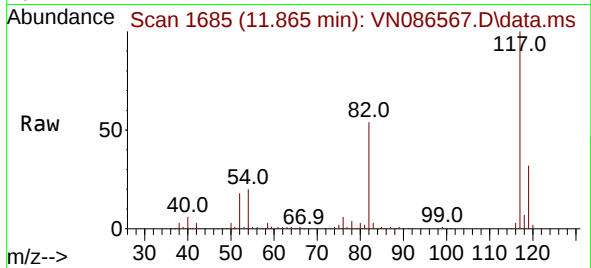




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

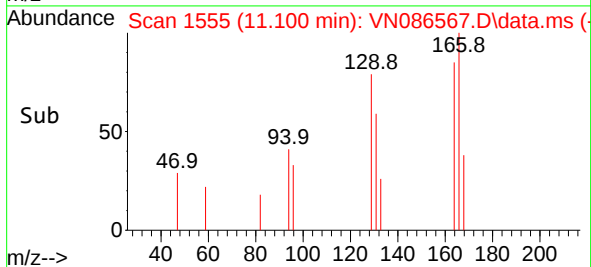
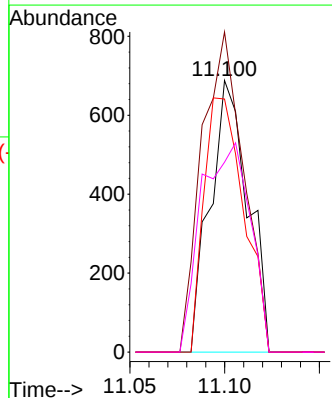
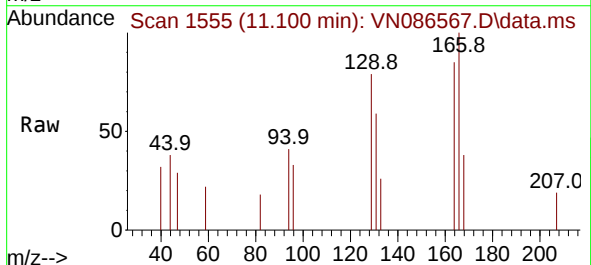
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

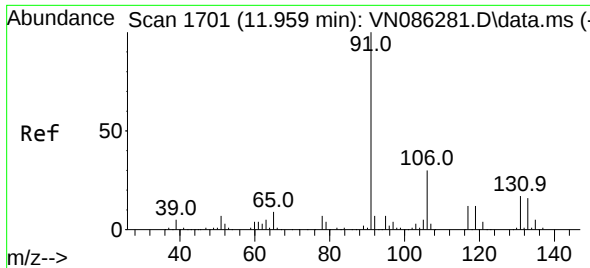
Tgt Ion:117 Resp: 380054
Ion Ratio Lower Upper
117 100
82 54.3 44.7 67.1
119 31.7 26.4 39.6



#64
Tetrachloroethene
Concen: 0.326 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion:164 Resp: 954
Ion Ratio Lower Upper
164 100
166 117.9 103.0 154.4
129 93.2 80.1 120.1
131 69.9 77.2 115.8#

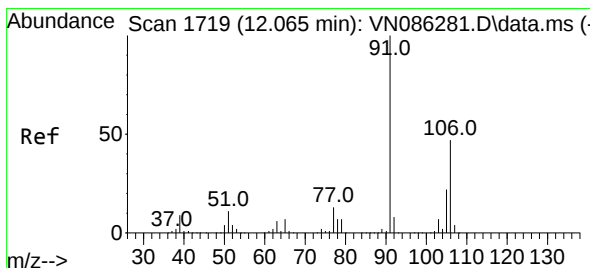
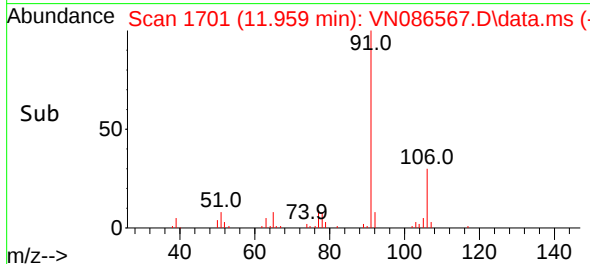
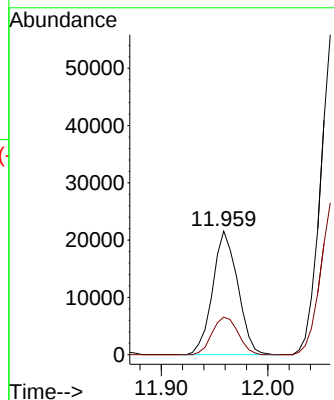
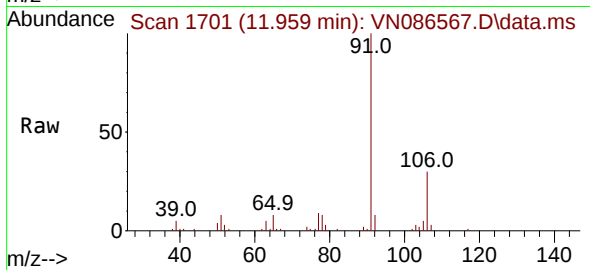




#67
Ethyl Benzene
Concen: 2.310 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

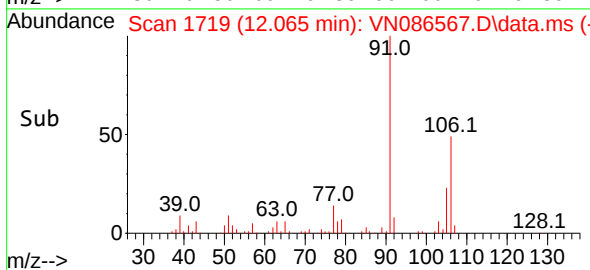
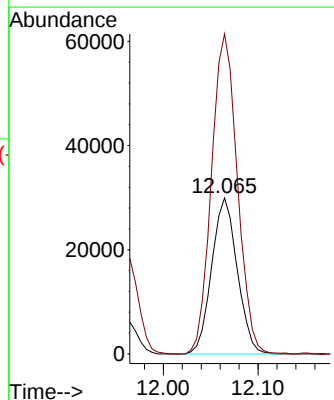
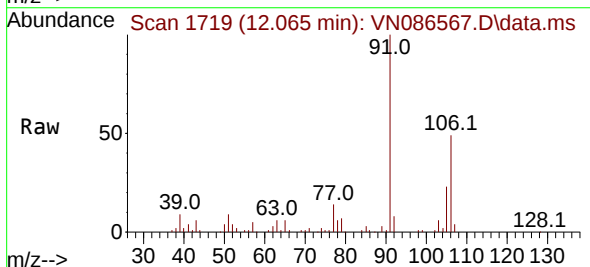
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

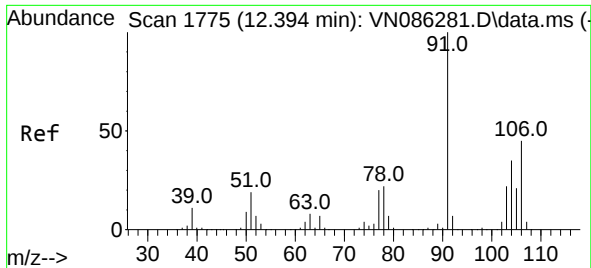
Tgt Ion: 91 Resp: 35354
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5



#68
m/p-Xylenes
Concen: 9.762 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 106 Resp: 55982
Ion Ratio Lower Upper
106 100
91 208.2 166.5 249.7

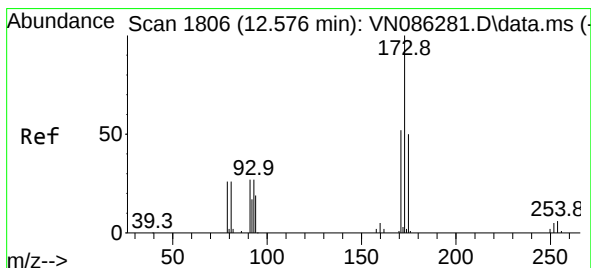
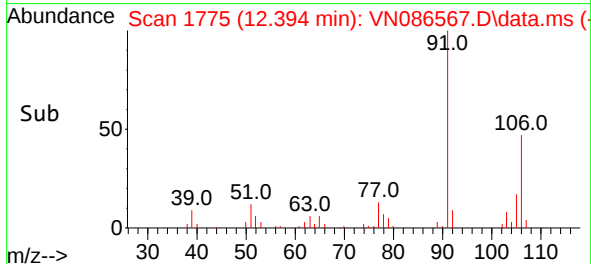
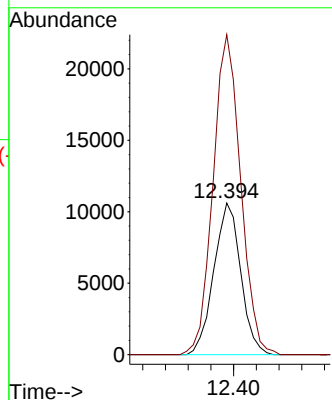
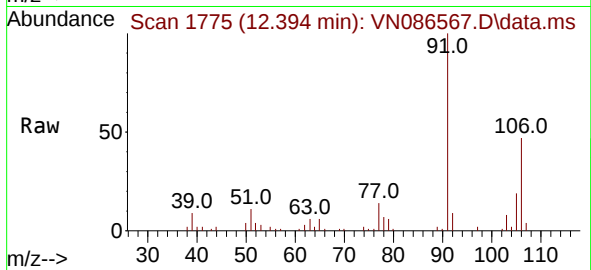




#69
o-Xylene
Concen: 3.073 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

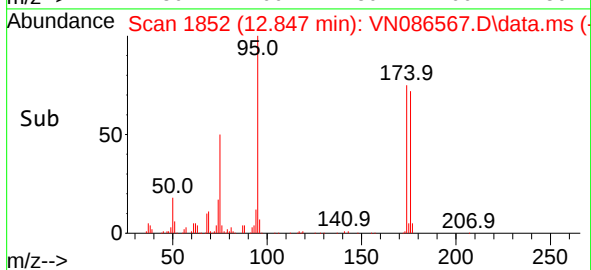
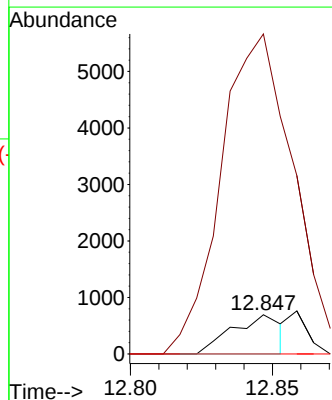
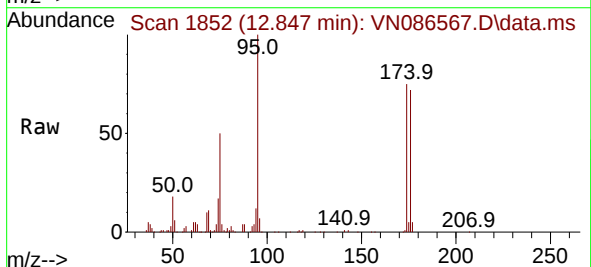
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

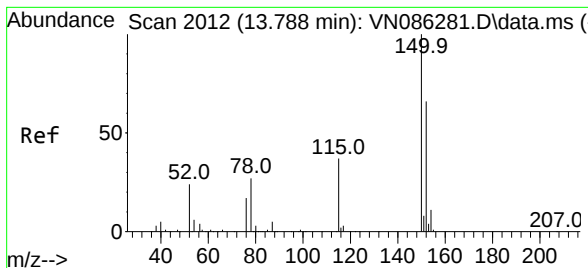
Tgt Ion:106 Resp: 17428
Ion Ratio Lower Upper
106 100
91 216.7 109.7 329.0



#71
Bromoform
Concen: 0.398 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion:173 Resp: 838
Ion Ratio Lower Upper
173 100
175 976.0 24.6 73.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN086567.D

Acq: 09 May 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

3848DL2

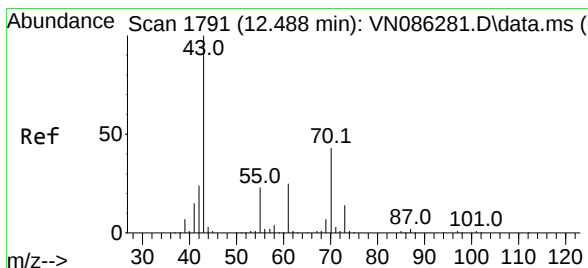
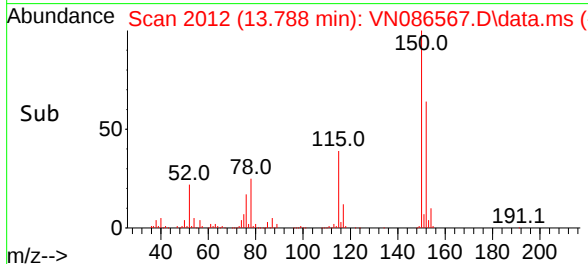
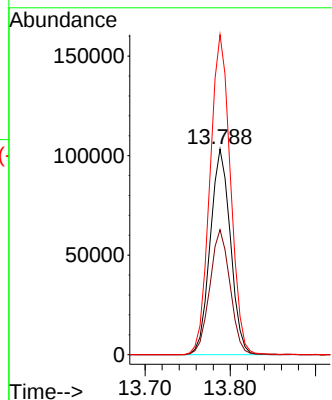
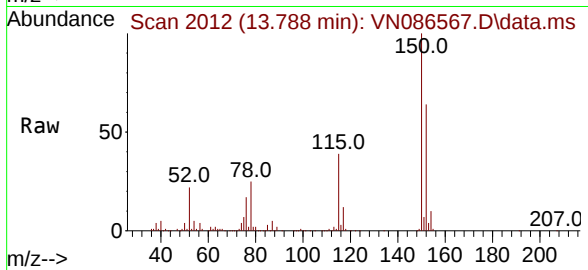
Tgt Ion:152 Resp: 170213

Ion Ratio Lower Upper

152 100

115 61.0 31.9 95.9

150 158.1 0.0 352.0



#74

N-ethyl acetate

Concen: 0.271 ug/l

RT: 12.476 min Scan# 1789

Delta R.T. -0.012 min

Lab File: VN086567.D

Acq: 09 May 2025 17:20

Tgt Ion: 43 Resp: 1879

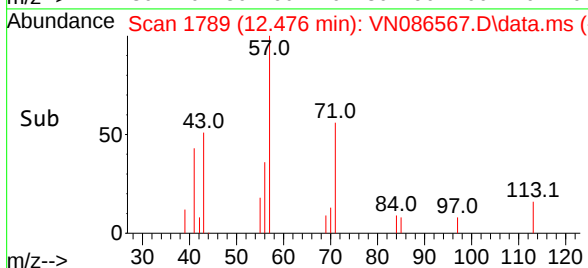
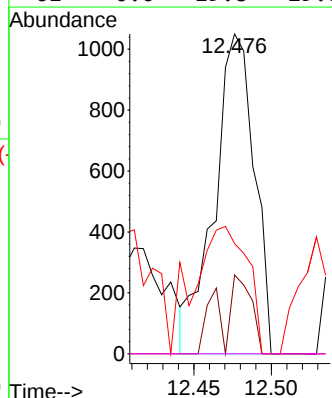
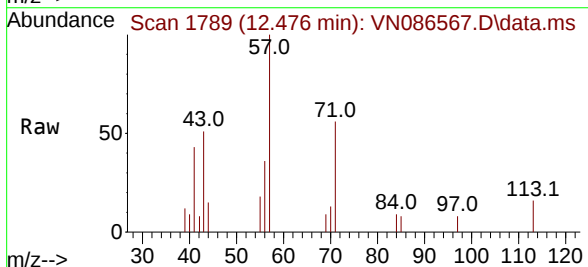
Ion Ratio Lower Upper

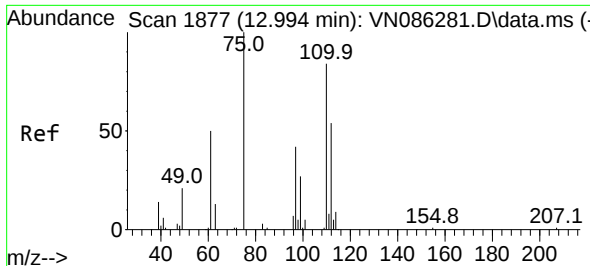
43 100

70 12.3 35.0 52.4#

55 53.1 19.0 28.4#

61 0.0 19.8 29.8#

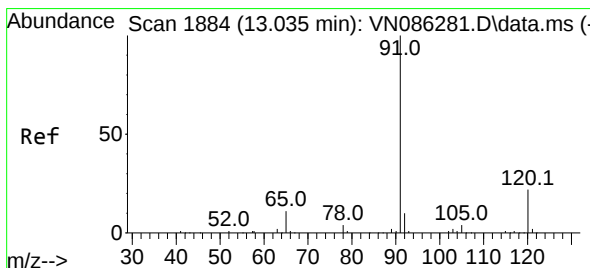
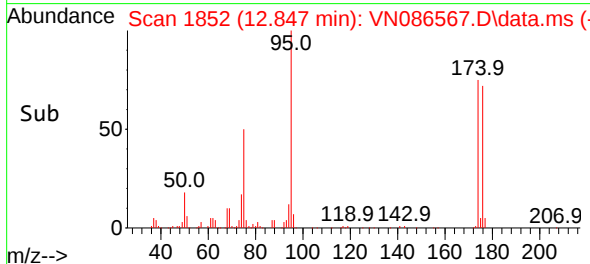
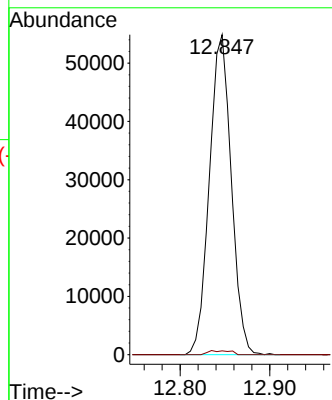
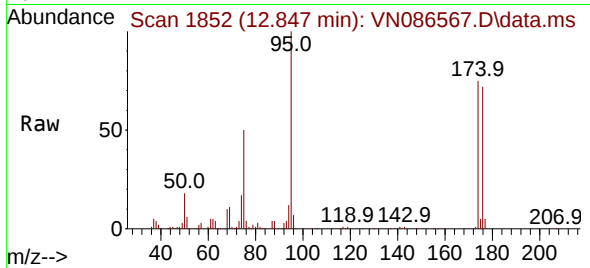




#76
1,2,3-Trichloropropane
Concen: 23.140 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

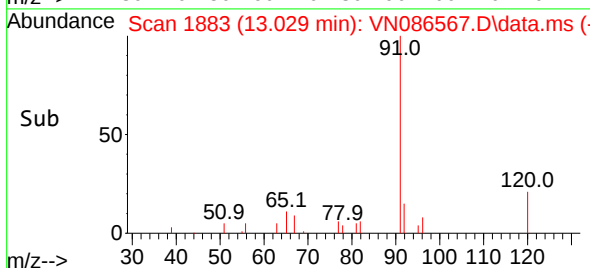
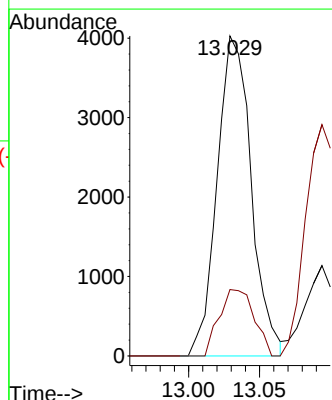
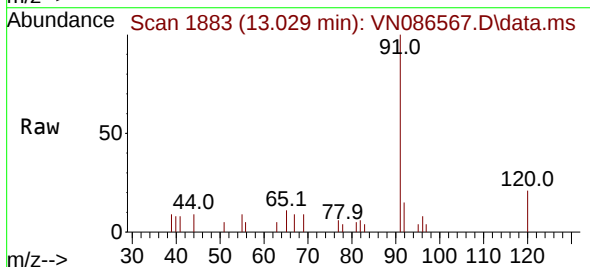
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

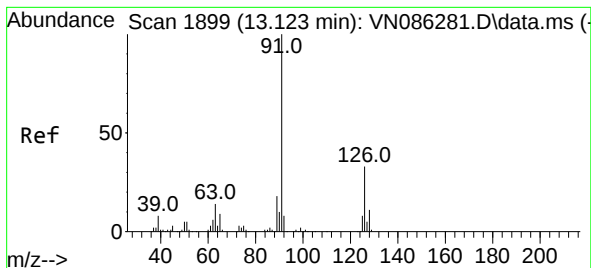
Tgt Ion: 75 Resp: 92948
Ion Ratio Lower Upper
75 100
77 1.3 98.8 296.4#



#78
n-propylbenzene
Concen: 0.410 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 91 Resp: 6727
Ion Ratio Lower Upper
91 100
120 21.2 11.1 33.3

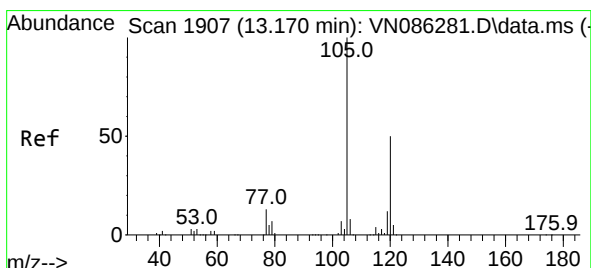
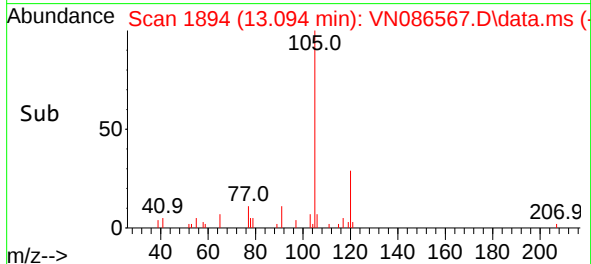
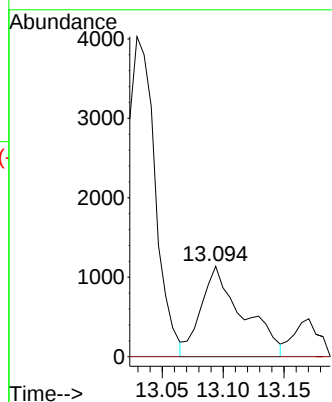
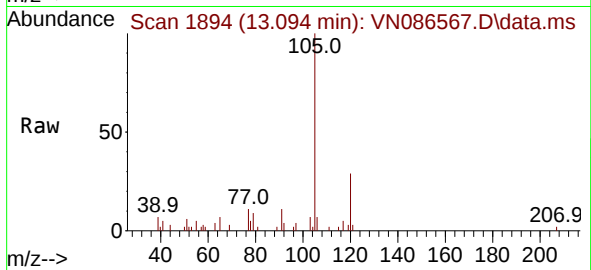




#79
2-Chlorotoluene
Concen: 0.264 ug/l
RT: 13.094 min Scan# 1899
Delta R.T. -0.030 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

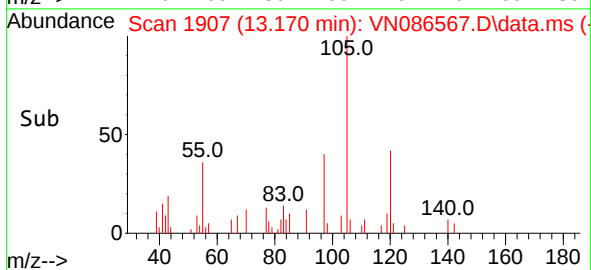
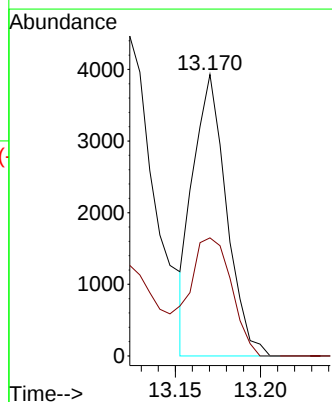
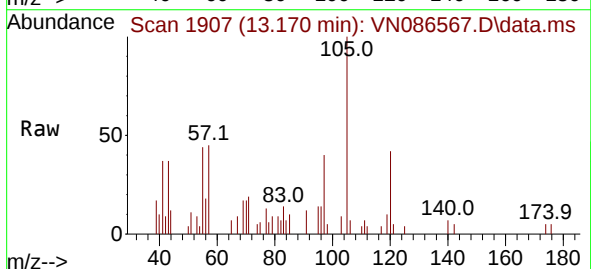
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

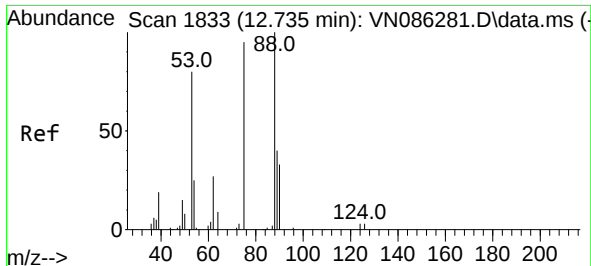
Tgt Ion: 91 Resp: 2711
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.2#



#80
1,3,5-Trimethylbenzene
Concen: 0.470 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 105 Resp: 5352
Ion Ratio Lower Upper
105 100
120 53.4 24.5 73.5

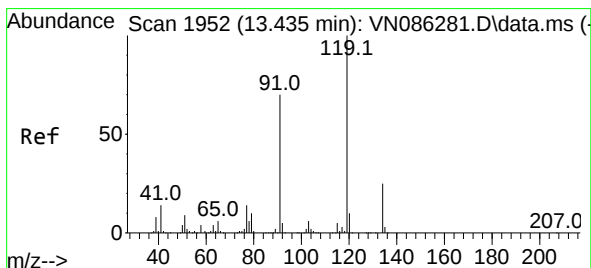
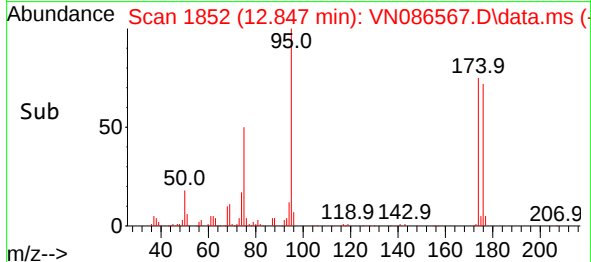
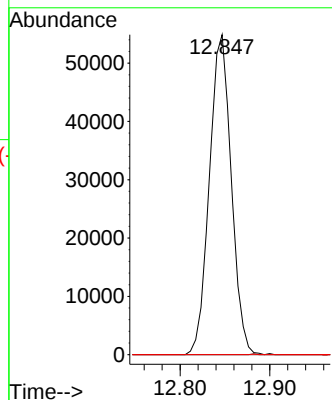
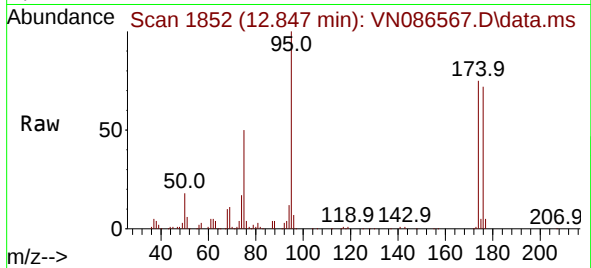




#81
trans-1,4-Dichloro-2-butene
Concen: 55.574 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

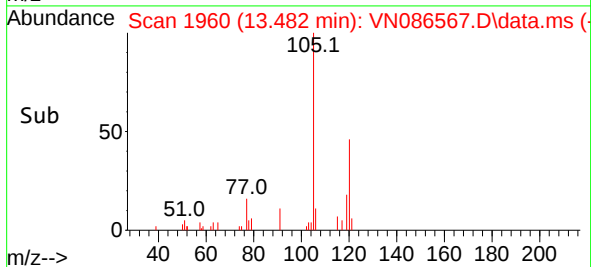
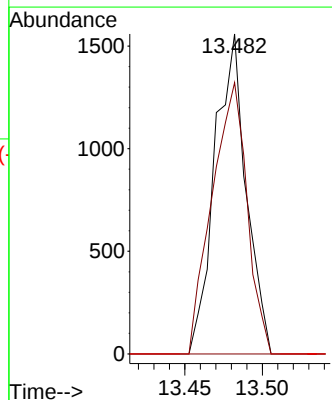
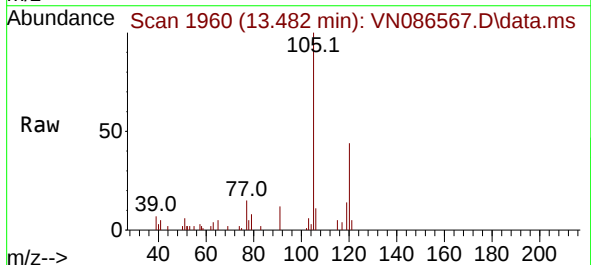
Instrument :
MSVOA_N
ClientSampleId :
3848DL2

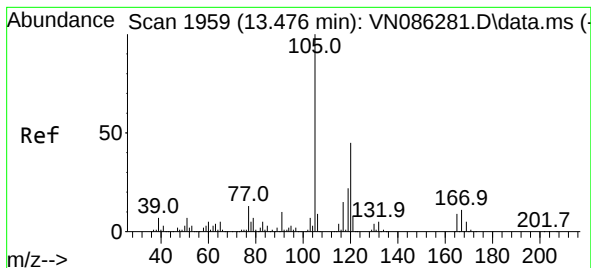
Tgt Ion: 75 Resp: 92948
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#83
tert-Butylbenzene
Concen: 0.222 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.047 min
Lab File: VN086567.D
Acq: 09 May 2025 17:20

Tgt Ion: 119 Resp: 2196
Ion Ratio Lower Upper
119 100
91 94.4 34.4 103.3
134 0.0 13.0 39.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.678 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086567.D

Acq: 09 May 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

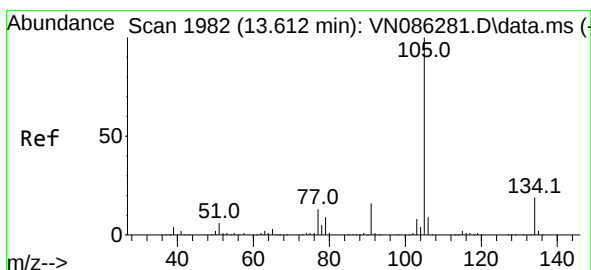
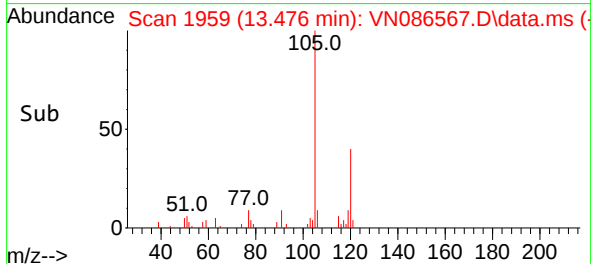
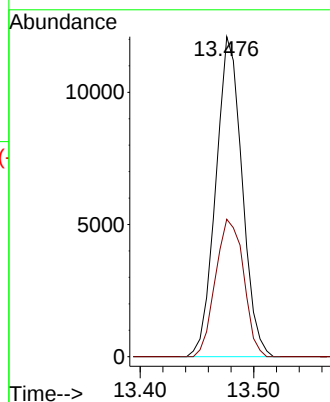
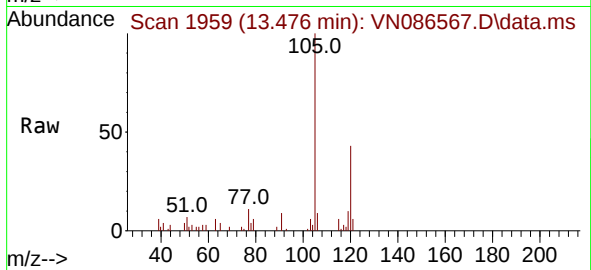
3848DL2

Tgt Ion:105 Resp: 19471

Ion Ratio Lower Upper

105 100

120 45.8 22.4 67.3



#85

sec-Butylbenzene

Concen: 0.226 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086567.D

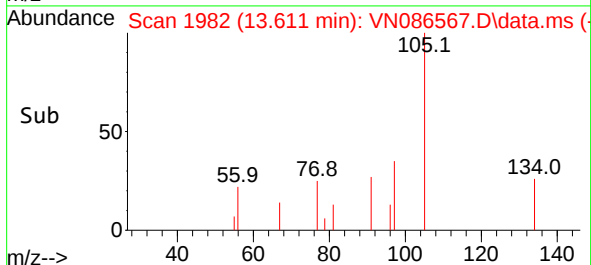
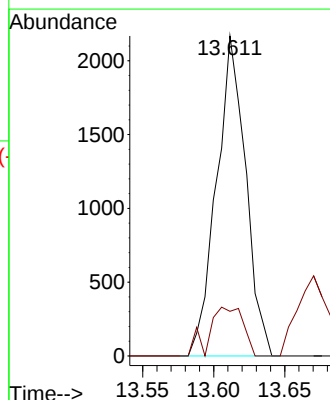
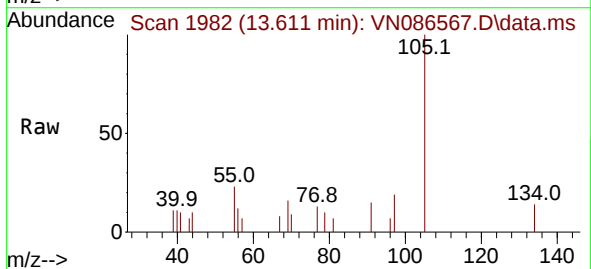
Acq: 09 May 2025 17:20

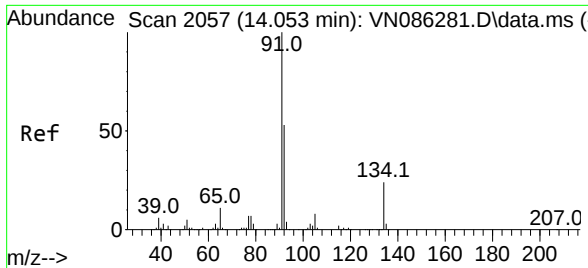
Tgt Ion:105 Resp: 3099

Ion Ratio Lower Upper

105 100

134 17.8 9.7 29.1





#89
 n-Butylbenzene
 Concen: 0.226 ug/l
 RT: 14.053 min Scan# 2057
 Delta R.T. -0.000 min
 Lab File: VN086567.D
 Acq: 09 May 2025 17:20

Instrument :
 MSVOA_N
 ClientSampleId :
 3848DL2

Tgt Ion:	91	Resp:	2258
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.8	80.4
134	0.0	12.2	36.6#

