

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087534.D
 Acq On : 13 Aug 2025 14:51
 Operator : JC\MD
 Sample : Q2825-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:01:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	216531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	485832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	448077	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	202307	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	235695	64.151	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	128.300%#
35) Dibromofluoromethane	8.153	113	167663	50.030	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.060%
50) Toluene-d8	10.547	98	610733	51.089	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.180%
62) 4-Bromofluorobenzene	12.829	95	224955	50.934	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.860%

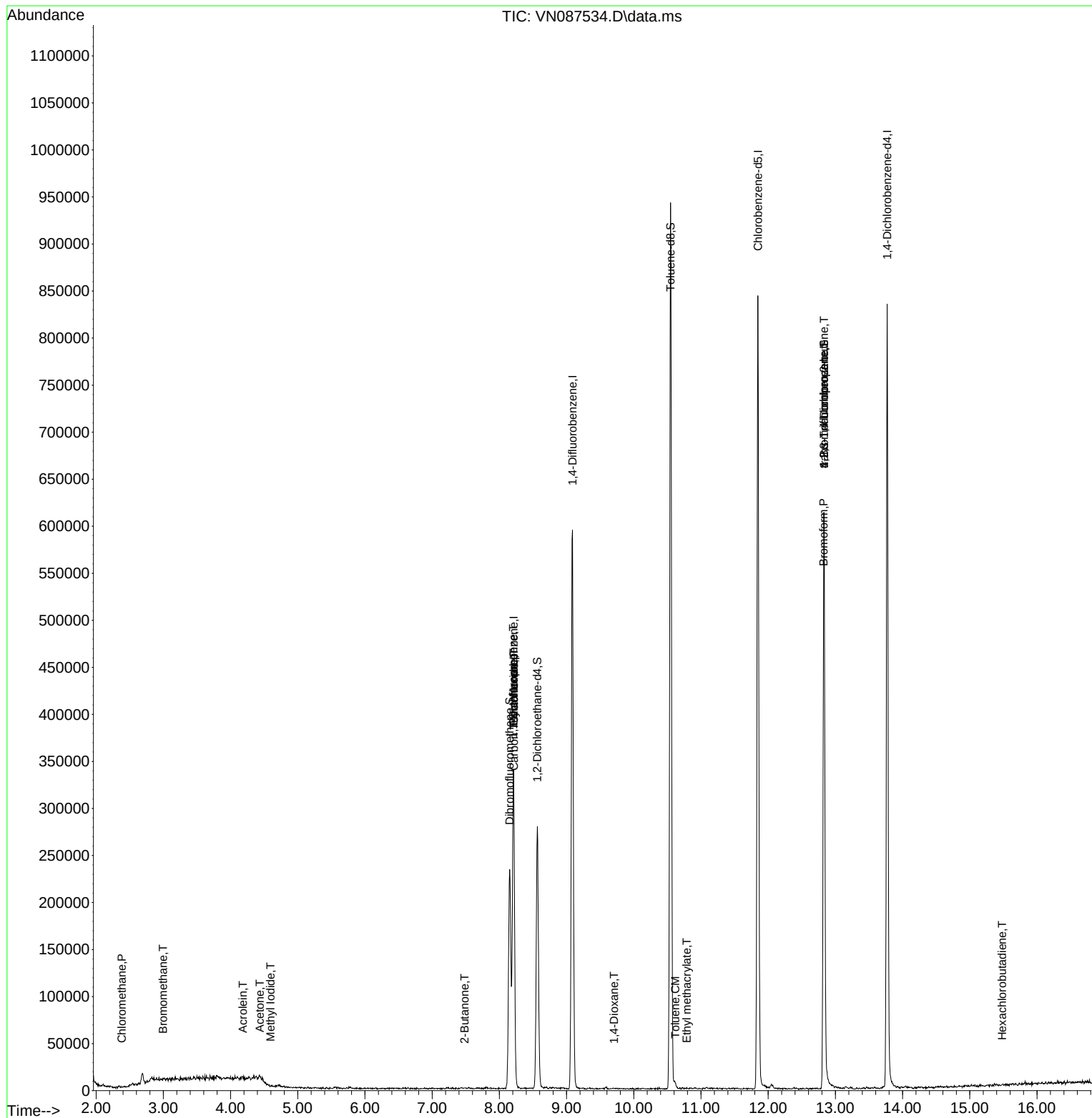
Target Compounds						Qvalue
3) Chloromethane	2.383	50	777	0.269	ug/l	92
5) Bromomethane	2.995	94	645	0.433	ug/l	97
10) Methyl Iodide	4.595	142	76	5.661	ug/l #	40
13) Acrolein	4.183	56	505	0.902	ug/l #	15
16) Acetone	4.436	43	4790	2.781	ug/l #	80
20) Methylene Chloride	5.265	84	139	Below Cal	#	4
25) 2-Butanone	7.483	43	913	0.343	ug/l #	51
31) Cyclohexane	8.212	56	7219	1.598	ug/l #	1
36) 1,1-Dichloropropene	8.206	75	22433	5.067	ug/l #	51
38) Carbon Tetrachloride	8.218	117	26105	5.352	ug/l #	12
49) 1,4-Dioxane	9.706	88	64	0.935	ug/l #	11
52) Toluene	10.618	92	2602	0.299	ug/l	96
56) Ethyl methacrylate	10.788	69	65	0.646	ug/l #	1
71) Bromoform	12.823	173	779	0.282	ug/l #	29
76) 1,2,3-Trichloropropane	12.829	75	130704	28.811	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	130704	78.832	ug/l #	8
94) Hexachlorobutadiene	15.482	225	354	0.264	ug/l #	48

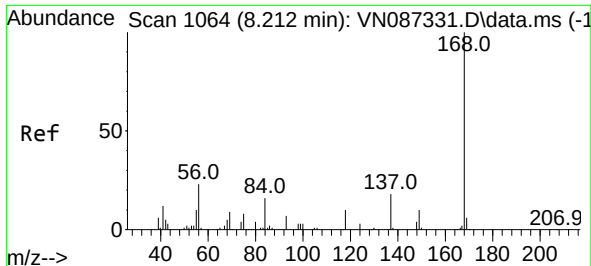
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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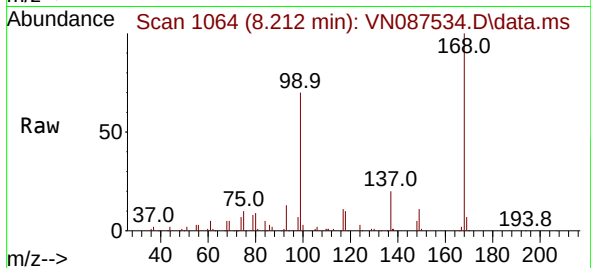
Quant Time: Aug 14 04:01:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
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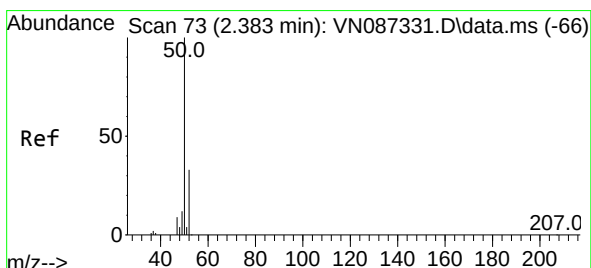
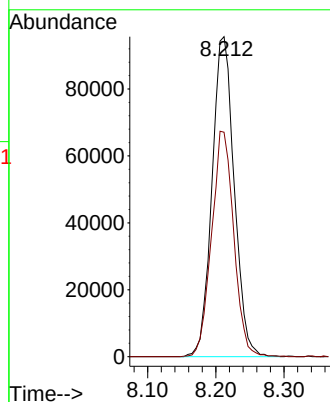
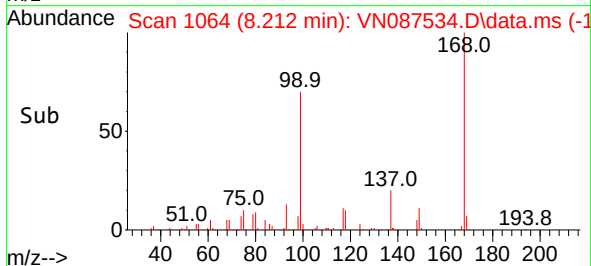


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :

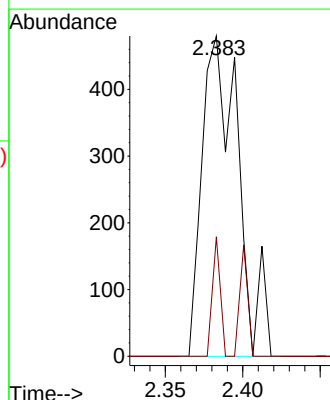
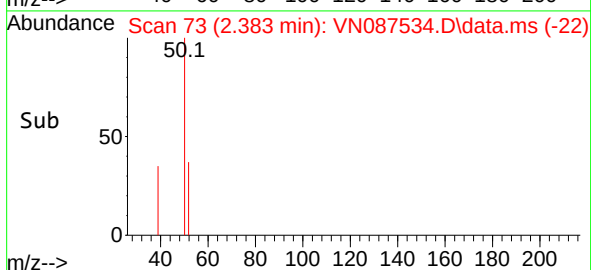
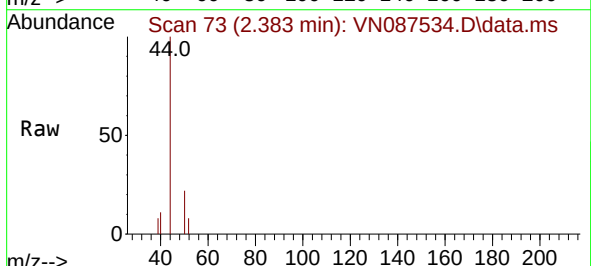


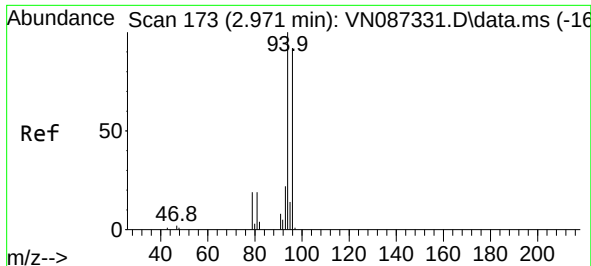
Tgt Ion:168 Resp: 216531
Ion Ratio Lower Upper
168 100
99 70.1 47.9 71.9



#3
Chloromethane
Concen: 0.269 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Tgt Ion: 50 Resp: 777
Ion Ratio Lower Upper
50 100
52 37.3 26.3 39.5

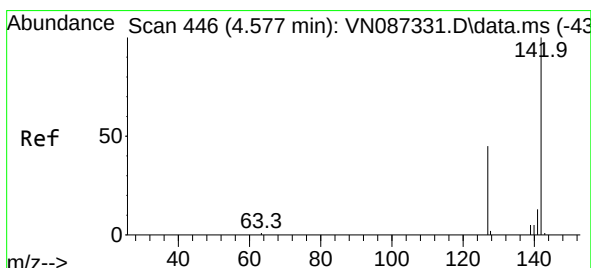
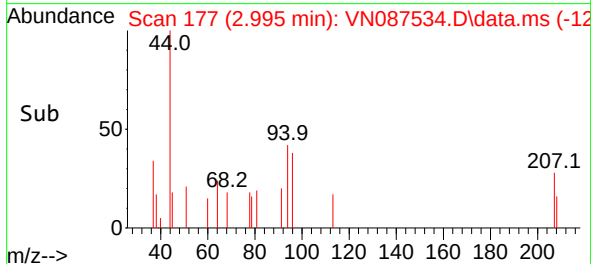
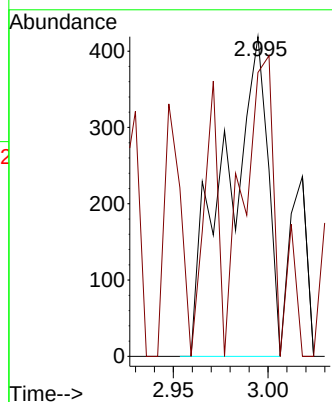
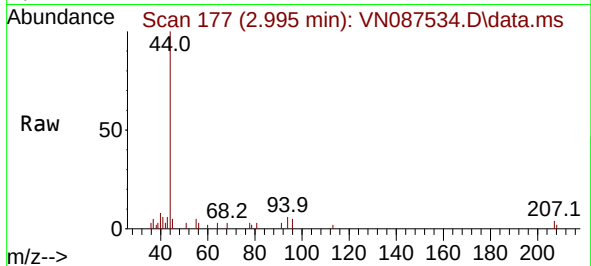




#5
Bromomethane
Concen: 0.433 ug/l
RT: 2.995 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

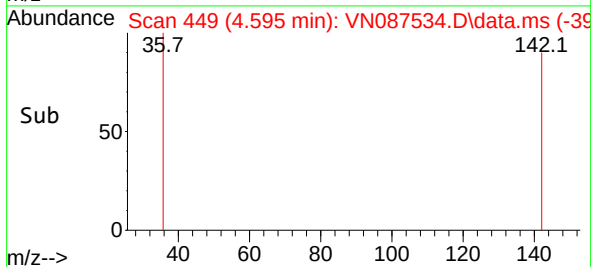
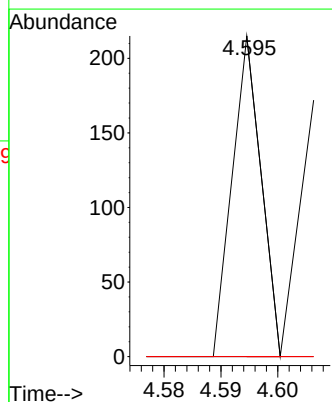
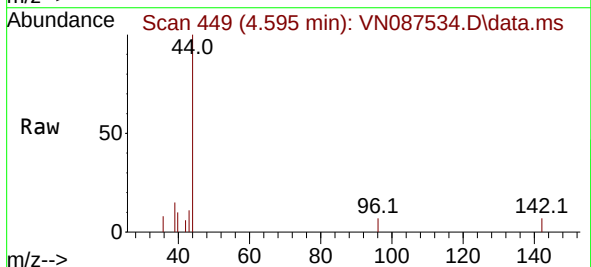
Instrument :
MSVOA_N
ClientSampleId :

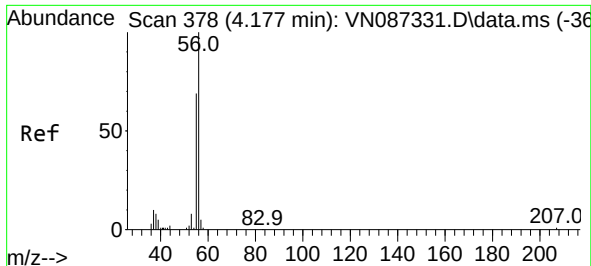
Tgt Ion: 94 Resp: 645
Ion Ratio Lower Upper
94 100
96 88.8 73.4 110.2



#10
Methyl Iodide
Concen: 5.661 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.018 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Tgt Ion:142 Resp: 76
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#

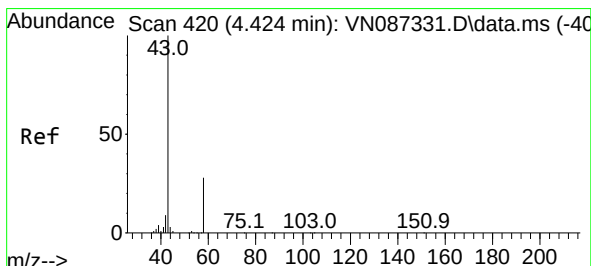
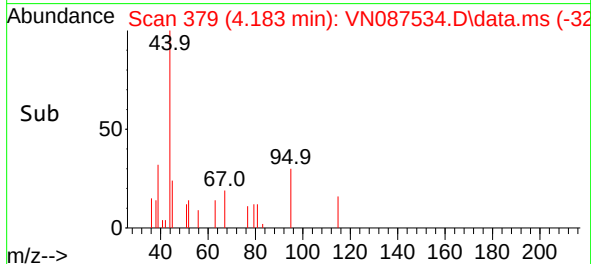
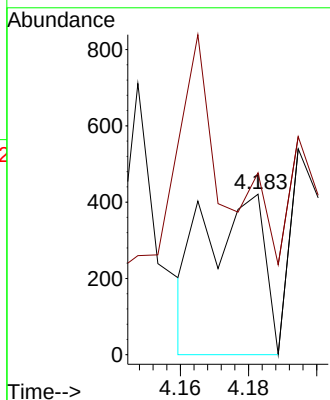
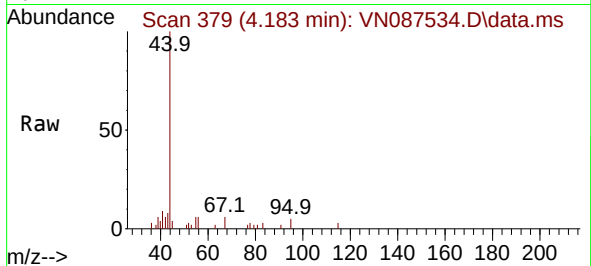




#13
Acrolein
Concen: 0.902 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

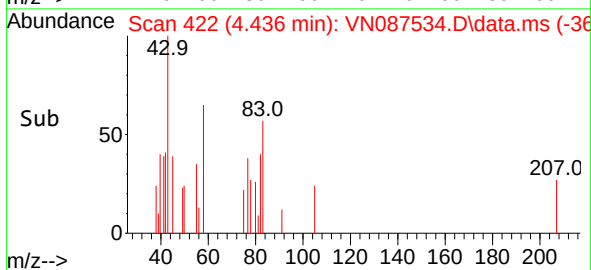
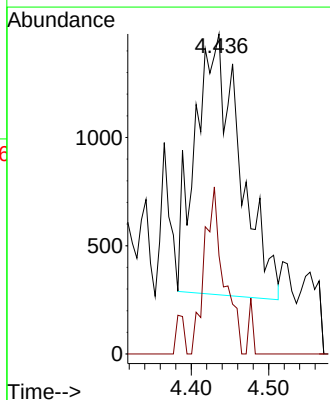
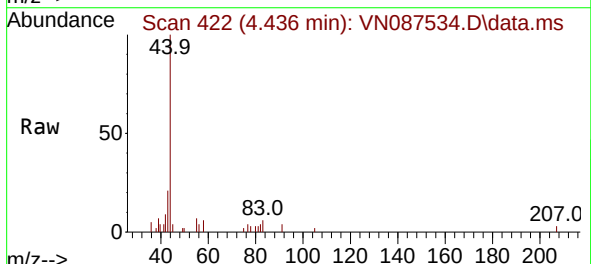
Instrument :
MSVOA_N
ClientSampleId :

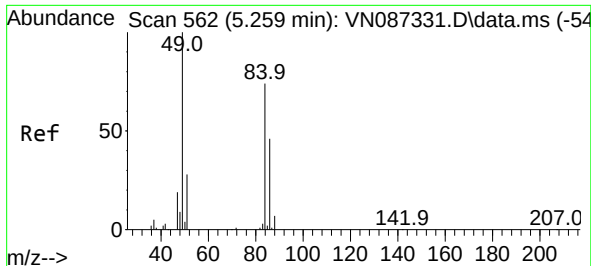
Tgt Ion: 56 Resp: 505
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#16
Acetone
Concen: 2.781 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

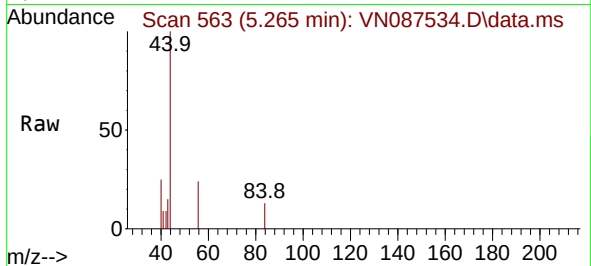
Tgt Ion: 43 Resp: 4790
Ion Ratio Lower Upper
43 100
58 38.3 22.3 33.5#



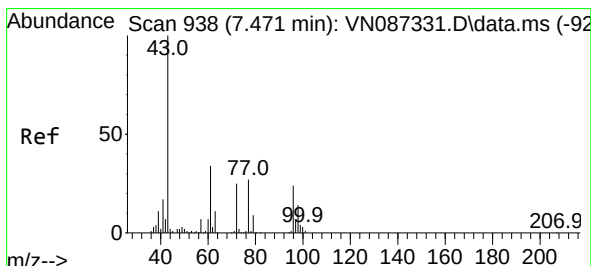
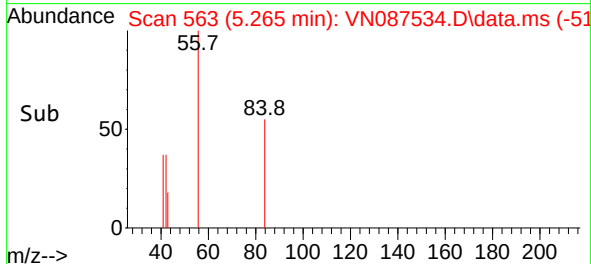
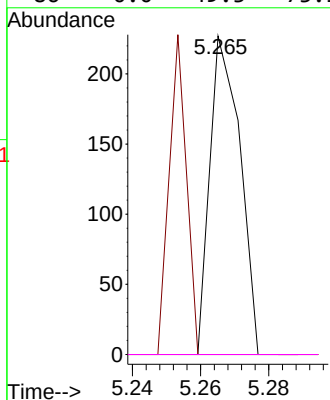


#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :

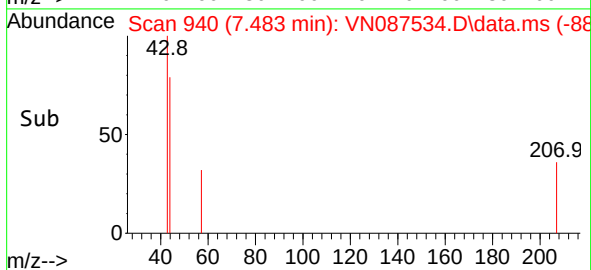
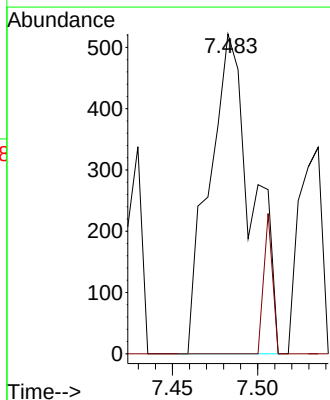
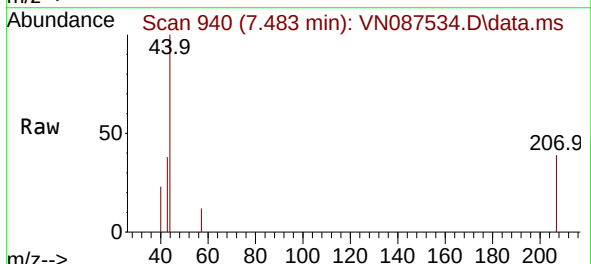


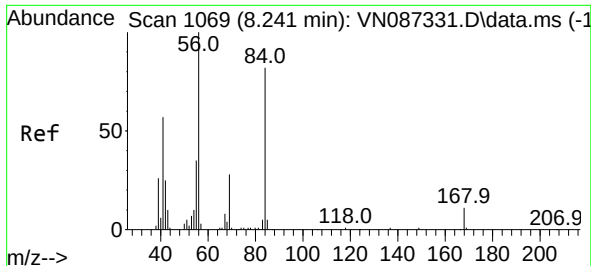
Tgt Ion:	84	Resp:	139
Ion	Ratio	Lower	Upper
84	100		
49	0.0	107.5	161.3#
51	0.0	30.2	45.2#
86	0.0	49.3	73.9#



#25
2-Butanone
Concen: 0.343 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

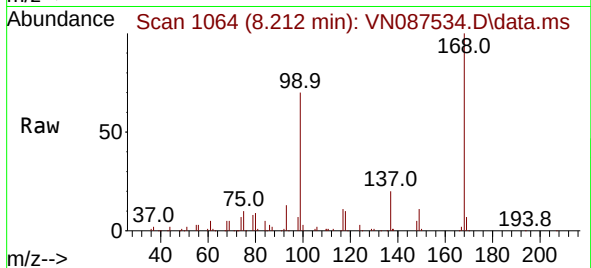
Tgt Ion:	43	Resp:	913
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.6	29.4#



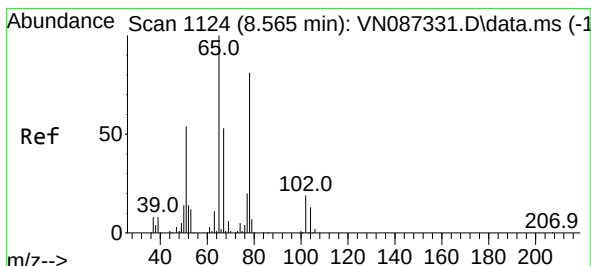
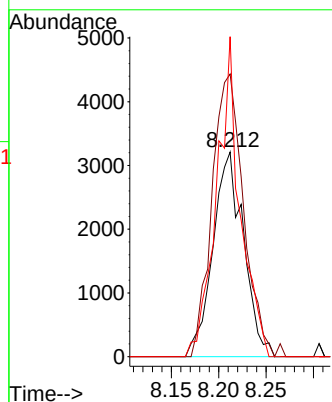
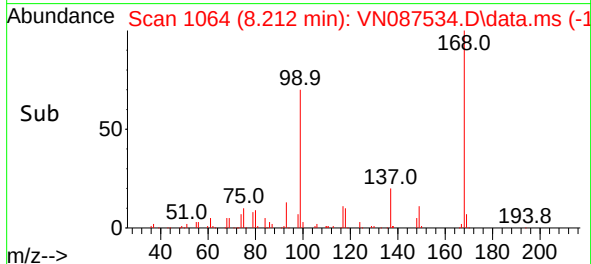


#31
Cyclohexane
Concen: 1.598 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :

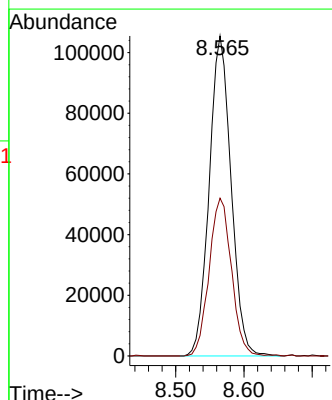
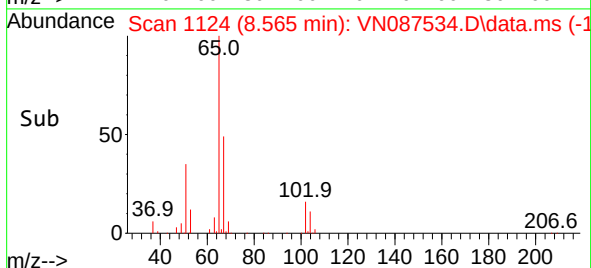
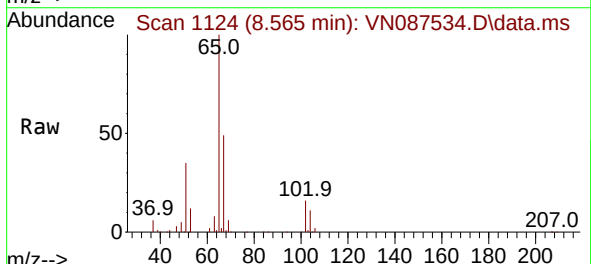


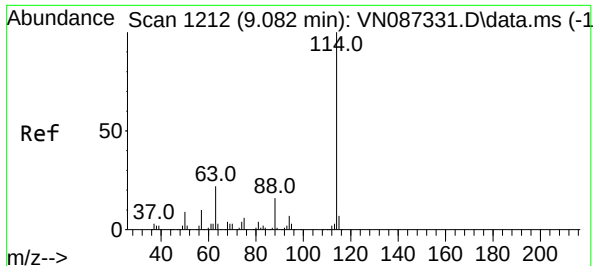
Tgt Ion: 56 Resp: 7219
Ion Ratio Lower Upper
56 100
69 138.1 22.7 34.1#
84 163.6 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 64.151 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Tgt Ion: 65 Resp: 235695
Ion Ratio Lower Upper
65 100
67 50.3 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087534.D

Acq: 13 Aug 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

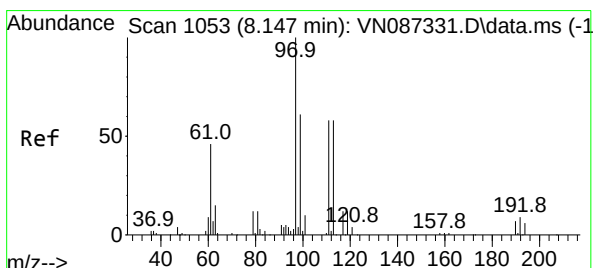
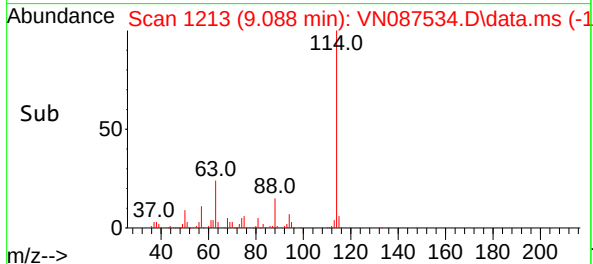
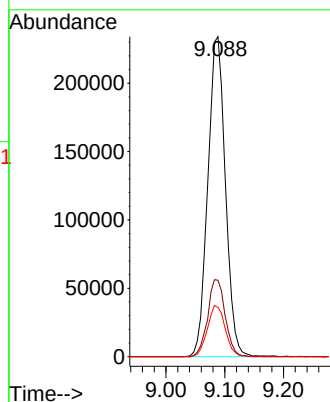
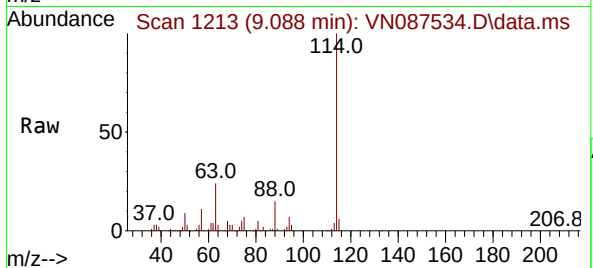
Tgt Ion:114 Resp: 485832

Ion Ratio Lower Upper

114 100

63 23.9 0.0 44.6

88 15.4 0.0 32.8



#35

Dibromofluoromethane

Concen: 50.030 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087534.D

Acq: 13 Aug 2025 14:51

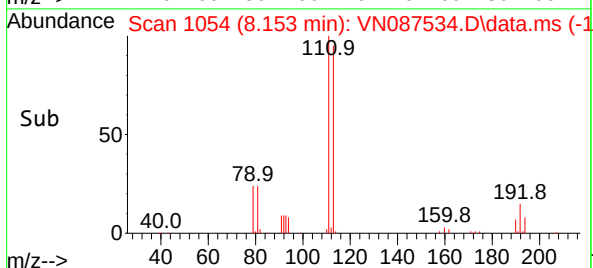
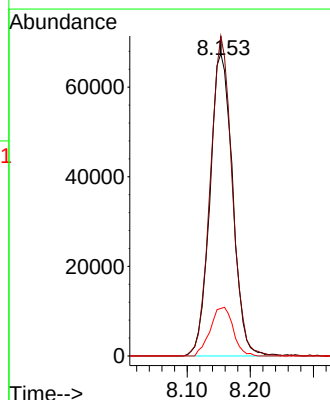
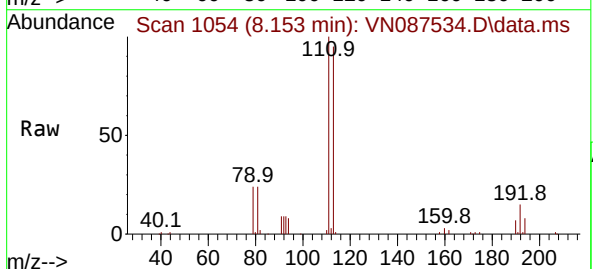
Tgt Ion:113 Resp: 167663

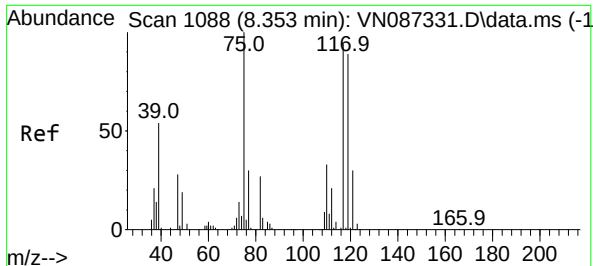
Ion Ratio Lower Upper

113 100

111 102.6 82.5 123.7

192 16.3 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.067 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087534.D

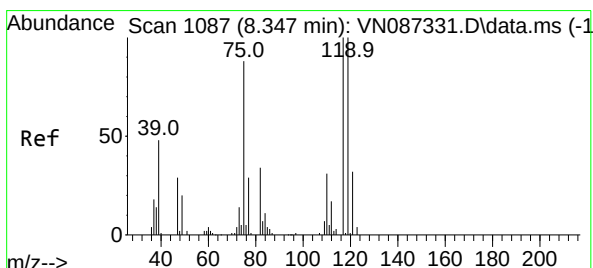
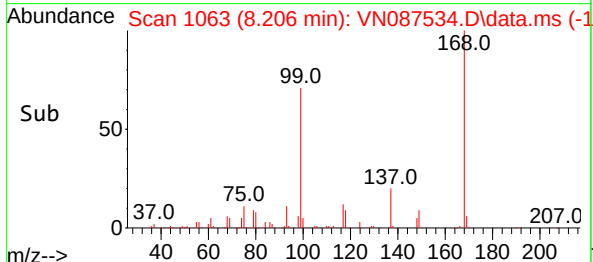
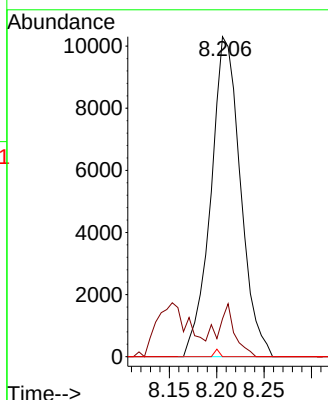
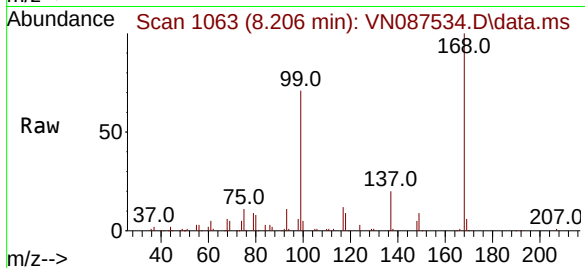
Acq: 13 Aug 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	22433
Ion Ratio	Lower	Upper	
75	100		
110	9.8	16.7	50.1#
77	0.4	25.2	37.8#



#38

Carbon Tetrachloride

Concen: 5.352 ug/l

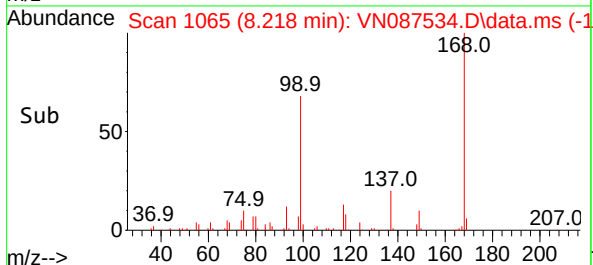
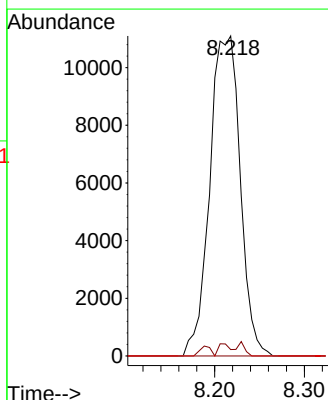
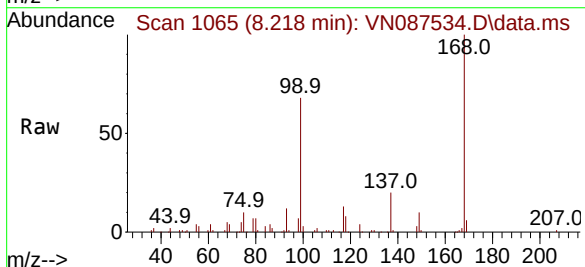
RT: 8.218 min Scan# 1065

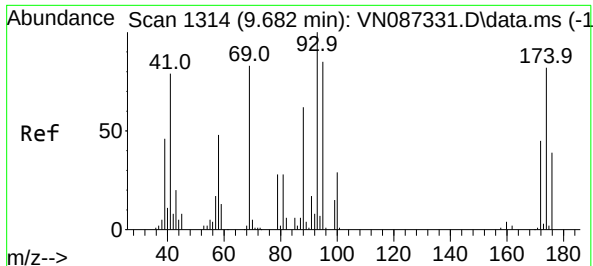
Delta R.T. -0.129 min

Lab File: VN087534.D

Acq: 13 Aug 2025 14:51

Tgt Ion:	117	Resp:	26105
Ion Ratio	Lower	Upper	
117	100		
119	2.0	80.2	120.2#
121	0.0	25.4	38.2#





#49

1,4-Dioxane

Concen: 0.935 ug/l

RT: 9.706 min Scan# 1

Delta R.T. 0.024 min

Lab File: VN087534.D

Acq: 13 Aug 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

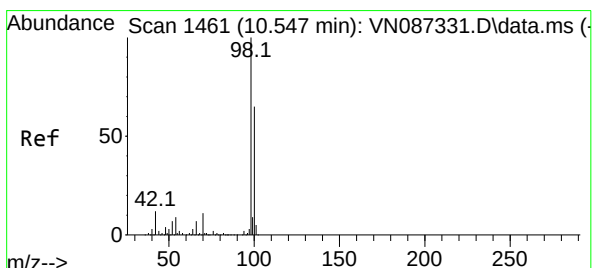
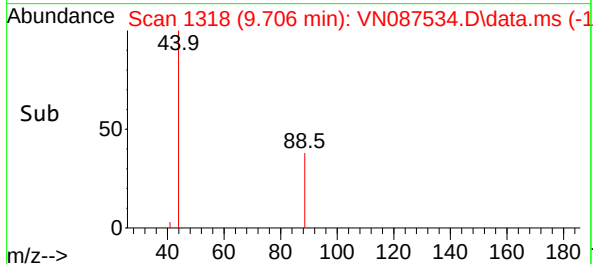
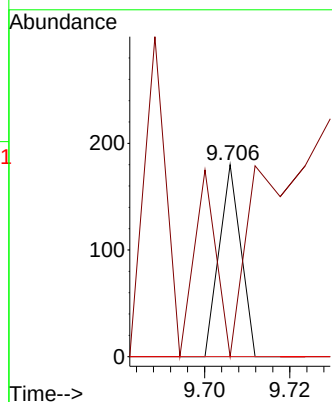
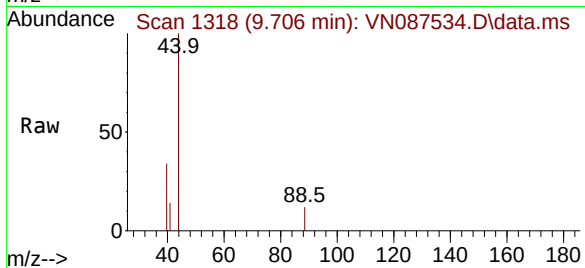
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 262.5 0.0 0.0#

58 0.0 61.1 91.7#



#50

Toluene-d8

Concen: 51.089 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087534.D

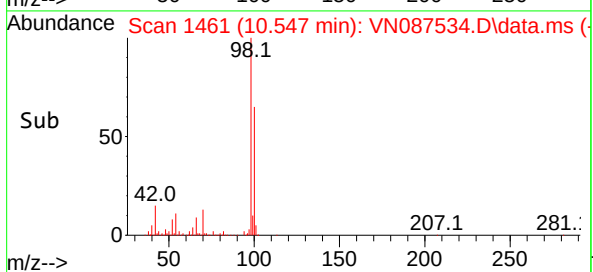
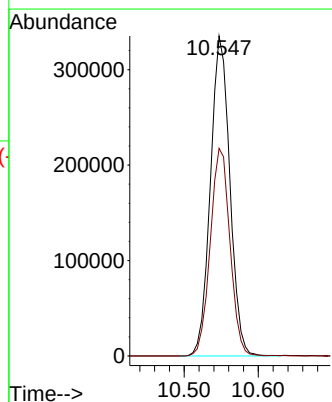
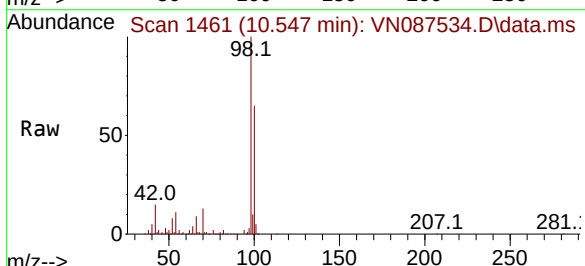
Acq: 13 Aug 2025 14:51

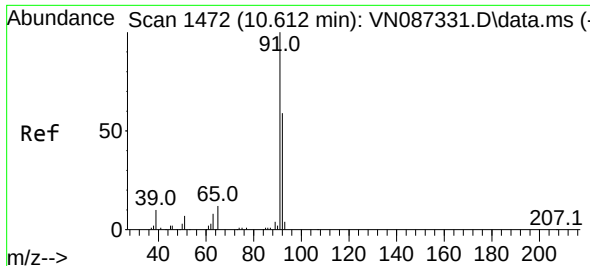
Tgt Ion: 98 Resp: 610733

Ion Ratio Lower Upper

98 100

100 65.8 52.1 78.1

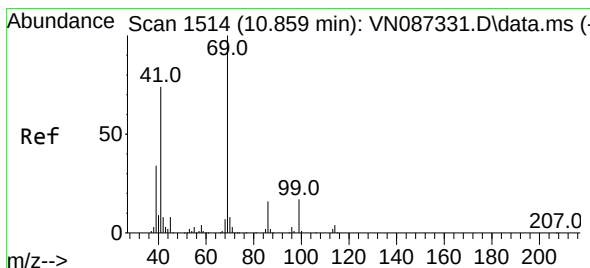
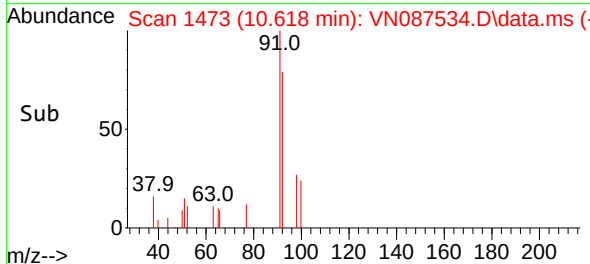
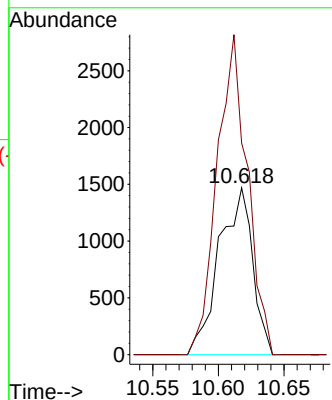
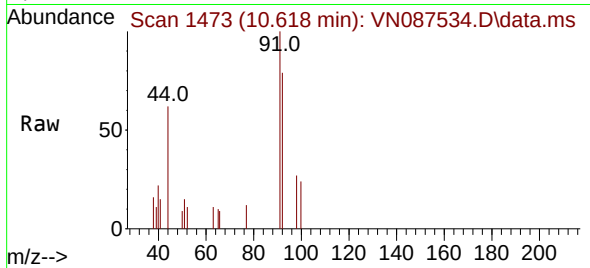




#52
Toluene
Concen: 0.299 ug/l
RT: 10.618 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

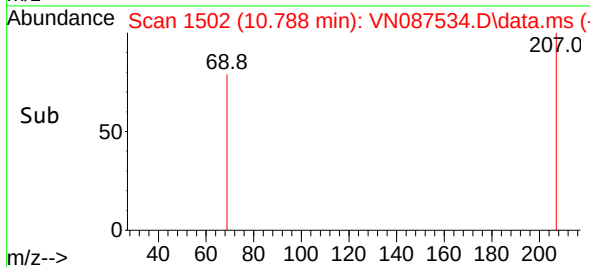
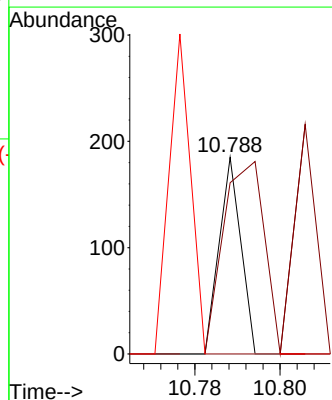
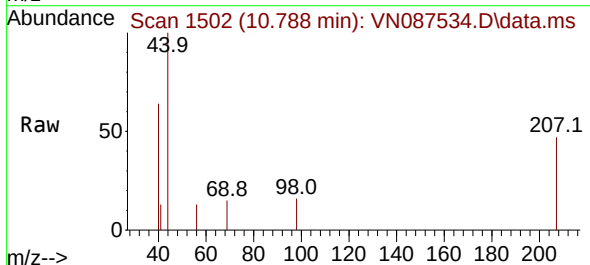
Instrument :
MSVOA_N
ClientSampleId :

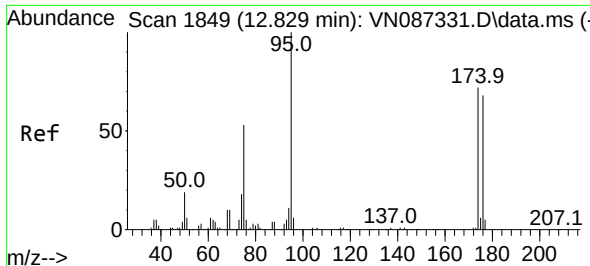
Tgt Ion: 92 Resp: 2602
Ion Ratio Lower Upper
92 100
91 174.6 135.1 202.7



#56
Ethyl methacrylate
Concen: 0.646 ug/l
RT: 10.788 min Scan# 1502
Delta R.T. -0.071 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Tgt Ion: 69 Resp: 65
Ion Ratio Lower Upper
69 100
41 186.2 55.1 82.7#
39 163.1 27.9 41.9#

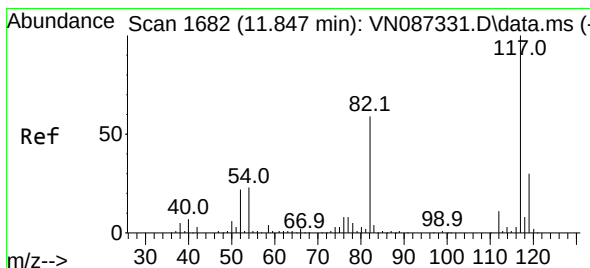
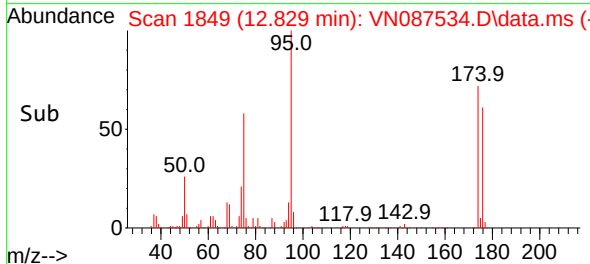
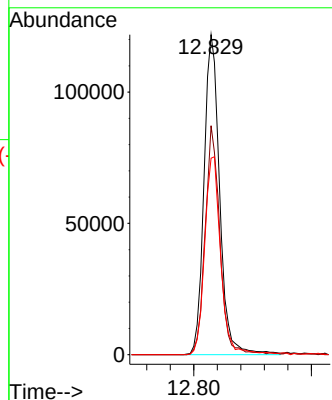
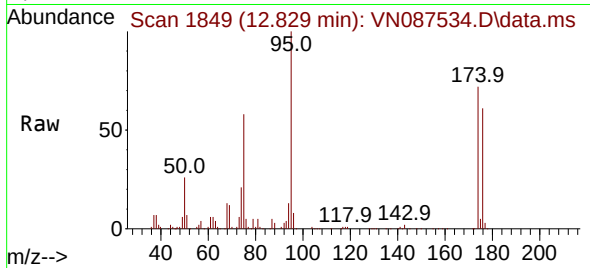




#62
4-Bromofluorobenzene
Concen: 50.934 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

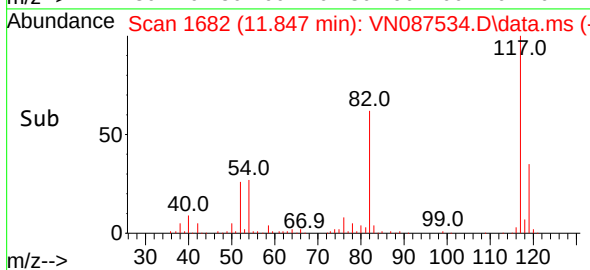
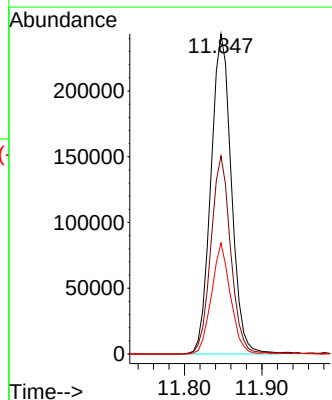
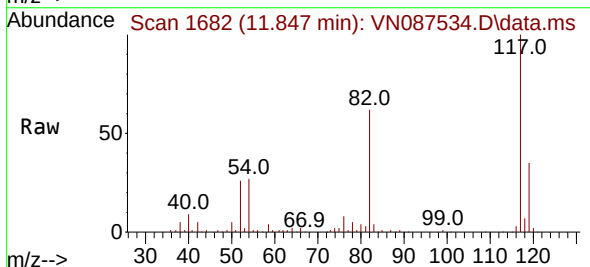
Instrument :
MSVOA_N
ClientSampleId :

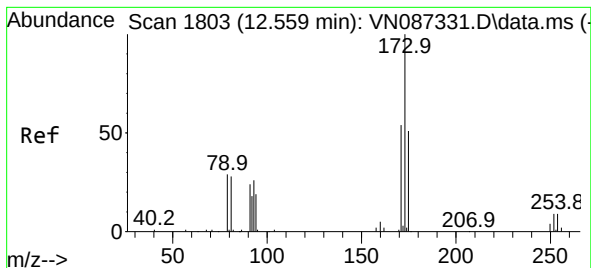
Tgt Ion: 95 Resp: 224955
Ion Ratio Lower Upper
95 100
174 66.9 0.0 149.4
176 63.5 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

Tgt Ion: 117 Resp: 448077
Ion Ratio Lower Upper
117 100
82 61.9 47.4 71.2
119 34.7 23.8 35.8





#71

Bromoform

Concen: 0.282 ug/l

RT: 12.823 min Scan# 1803

Delta R.T. 0.265 min

Lab File: VN087534.D

Acq: 13 Aug 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

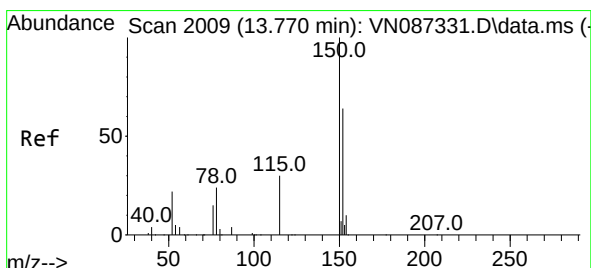
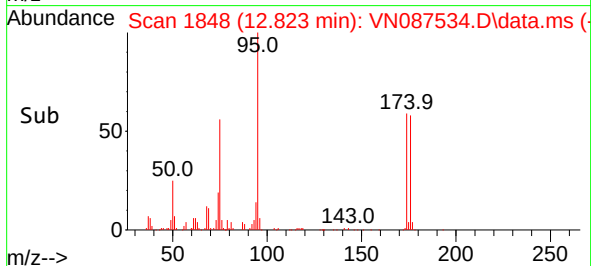
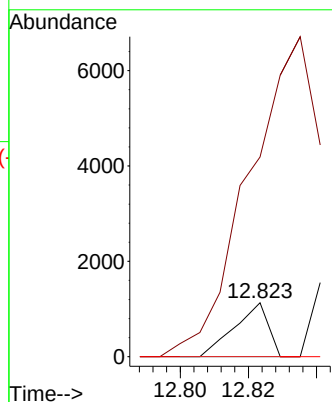
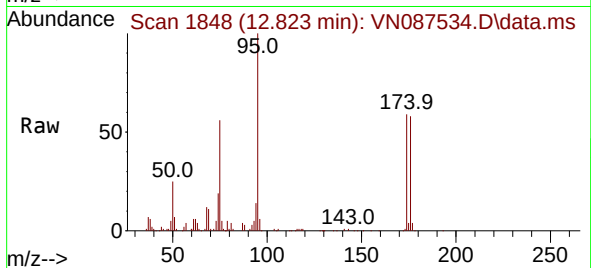
Tgt Ion:173 Resp: 779

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087534.D

Acq: 13 Aug 2025 14:51

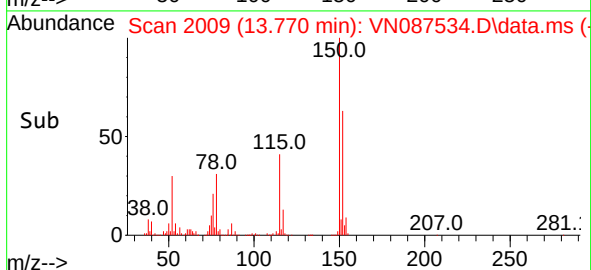
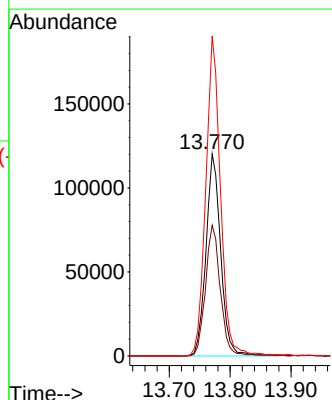
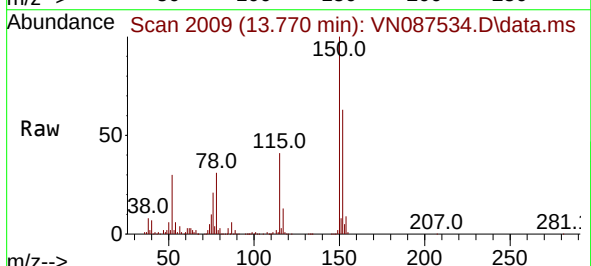
Tgt Ion:152 Resp: 202307

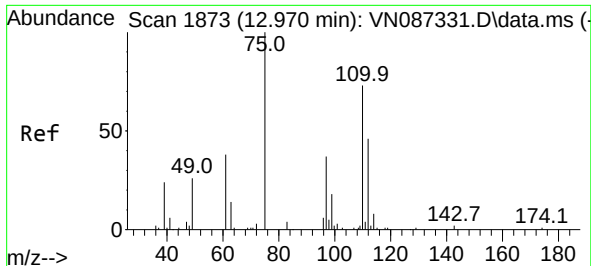
Ion Ratio Lower Upper

152 100

115 65.4 31.1 93.5

150 158.2 0.0 349.0

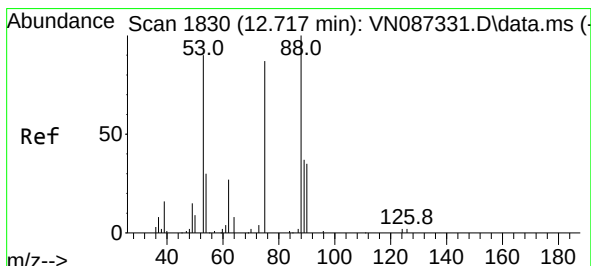
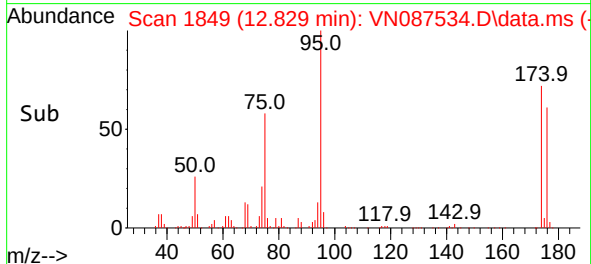
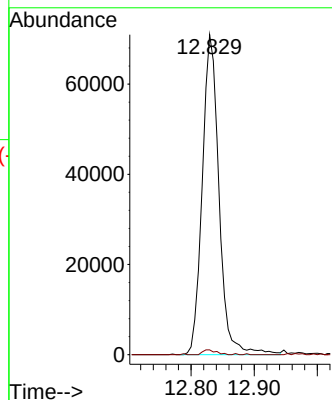
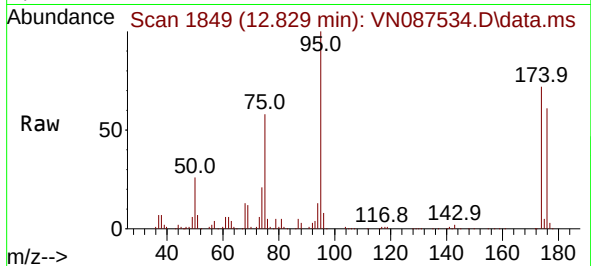




#76
1,2,3-Trichloropropane
Concen: 28.811 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

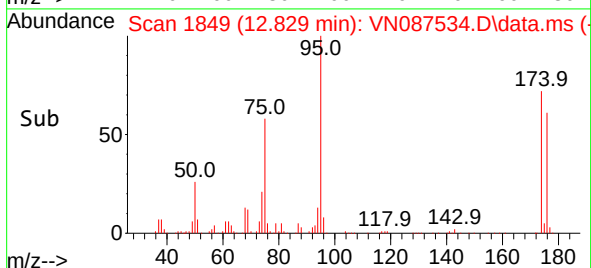
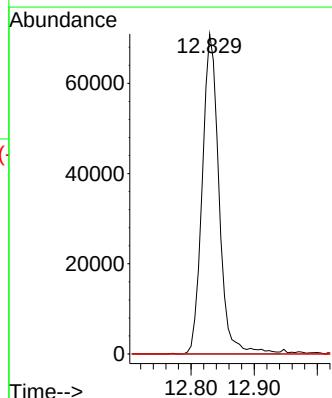
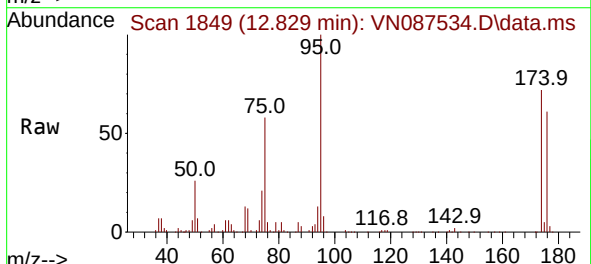
Instrument :
MSVOA_N
ClientSampleId :

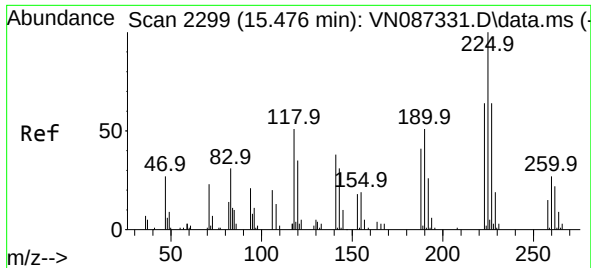
Tgt Ion: 75 Resp: 130704
Ion Ratio Lower Upper
75 100
77 1.2 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.832 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087534.D
Acq: 13 Aug 2025 14:51

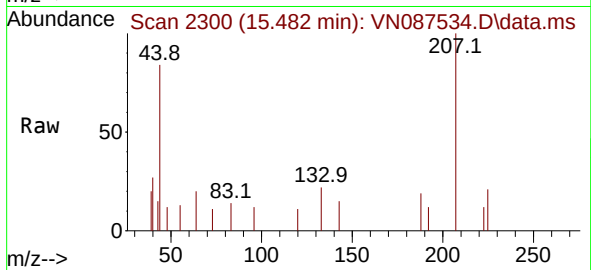
Tgt Ion: 75 Resp: 130704
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.0 38.4 57.6#





#94
 Hexachlorobutadiene
 Concen: 0.264 ug/l
 RT: 15.482 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN087534.D
 Acq: 13 Aug 2025 14:51

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	225	Resp:	354
Ion	Ratio	Lower	Upper
225	100		
223	44.9	32.1	96.3
227	0.0	31.3	93.9#

