

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091825\
 Data File : VN087890.D
 Acq On : 18 Sep 2025 12:45
 Operator : JC\MD
 Sample : PB169730TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 19 03:05:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

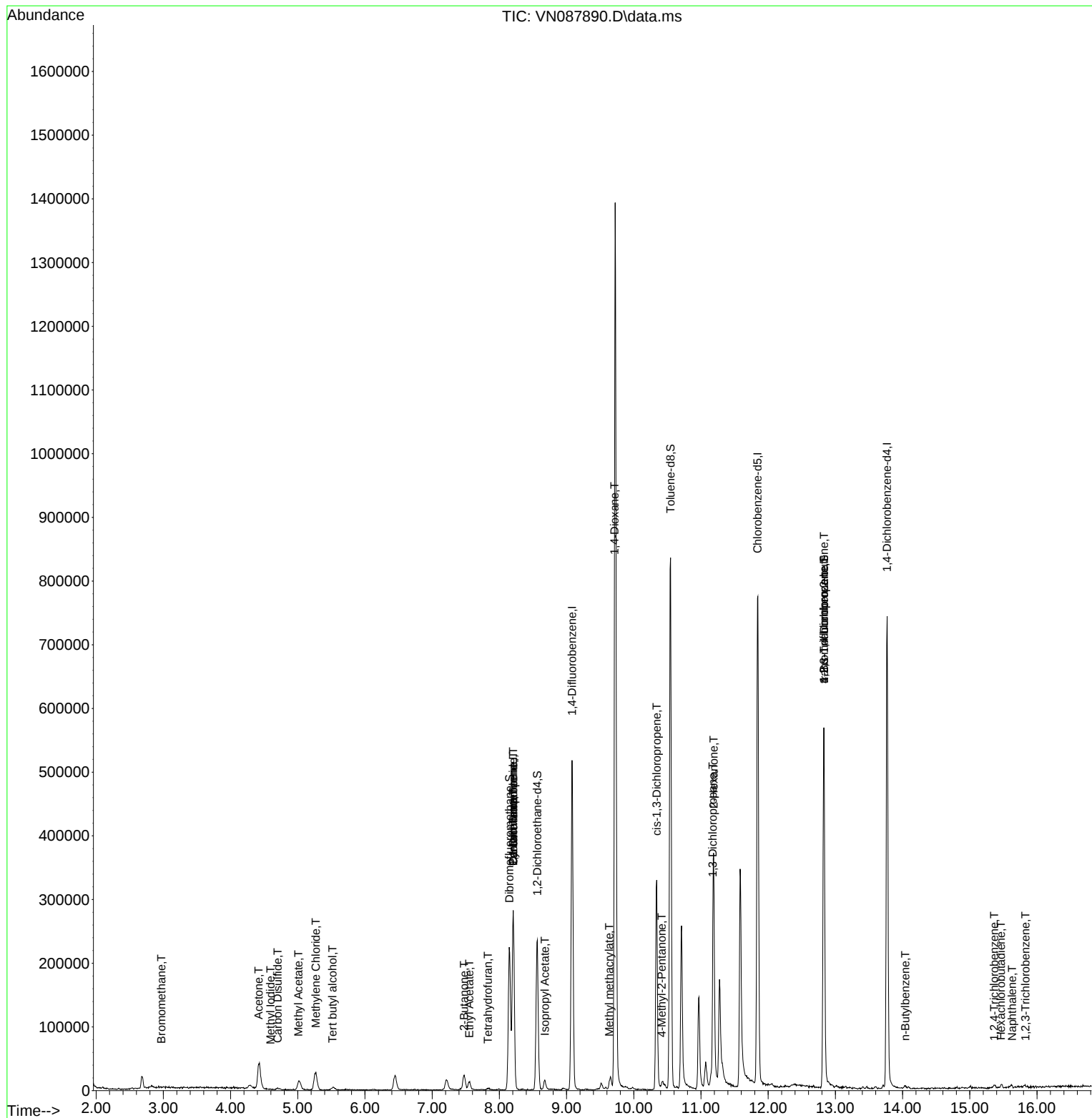
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	193250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	427700	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	451921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	206161	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	192432	48.600	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.200%
35) Dibromofluoromethane	8.147	113	160578	52.001	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.000%
50) Toluene-d8	10.547	98	563286	48.737	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.480%
62) 4-Bromofluorobenzene	12.829	95	195567	47.580	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.160%
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	389	0.231	ug/l #	3
10) Methyl Iodide	4.595	142	1165	7.307	ug/l #	38
11) Tert butyl alcohol	5.518	59	6611	9.618	ug/l	100
16) Acetone	4.418	43	79559	36.911	ug/l	98
17) Carbon Disulfide	4.700	76	3384	0.441	ug/l #	74
18) Methyl Acetate	5.012	43	31213	6.916	ug/l	94
20) Methylene Chloride	5.271	84	21782	5.892	ug/l #	94
25) 2-Butanone	7.477	43	38590	13.609	ug/l	100
29) Tetrahydrofuran	7.830	42	1349	0.739	ug/l #	49
31) Cyclohexane	8.206	56	5700	1.145	ug/l #	15
36) 1,1-Dichloropropene	8.206	75	18007	3.801	ug/l #	50
37) Ethyl Acetate	7.553	43	17740	2.740	ug/l #	94
38) Carbon Tetrachloride	8.206	117	21722	4.644	ug/l #	14
43) Isopropyl Acetate	8.677	43	16242	1.607	ug/l #	94
48) Methyl methacrylate	9.635	41	4439	0.929	ug/l #	13
49) 1,4-Dioxane	9.712	88	444	7.166	ug/l #	1
51) 4-Methyl-2-Pentanone	10.418	43	6169	1.012	ug/l #	60
54) cis-1,3-Dichloropropene	10.341	75	59256	9.870	ug/l #	64
57) 1,3-Dichloropropane	11.177	76	4343	0.704	ug/l #	42
59) 2-Hexanone	11.188	43	80035	20.768	ug/l #	56
76) 1,2,3-Trichloropropane	12.829	75	112368	23.243	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	112368	61.532	ug/l #	1
89) n-Butylbenzene	14.041	91	2883	0.201	ug/l	96
93) 1,2,4-Trichlorobenzene	15.364	180	1586	0.360	ug/l #	60
94) Hexachlorobutadiene	15.464	225	997	0.635	ug/l	93
95) Naphthalene	15.629	128	4562	0.292	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.829	180	1291	0.300	ug/l #	15

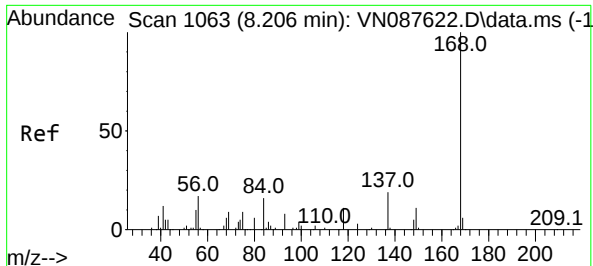
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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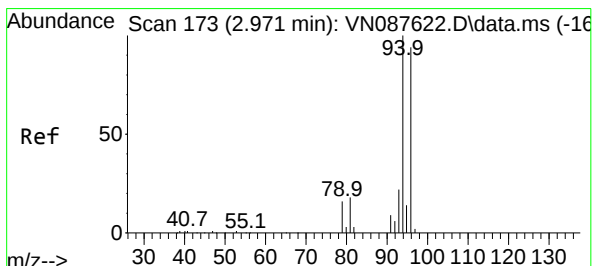
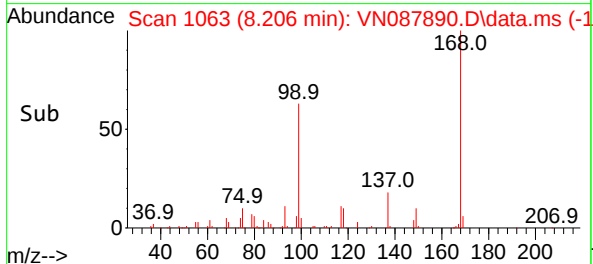
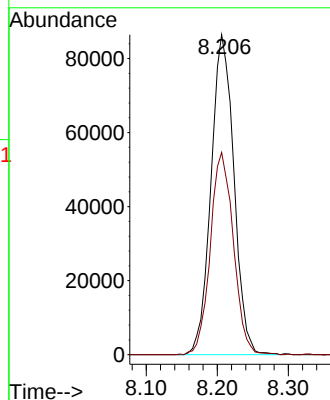
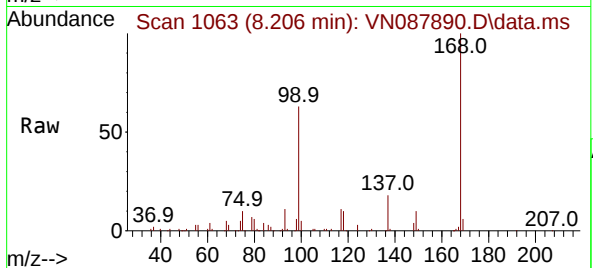




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

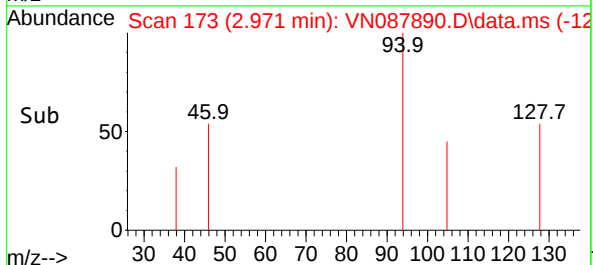
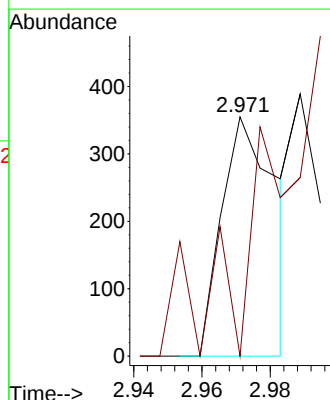
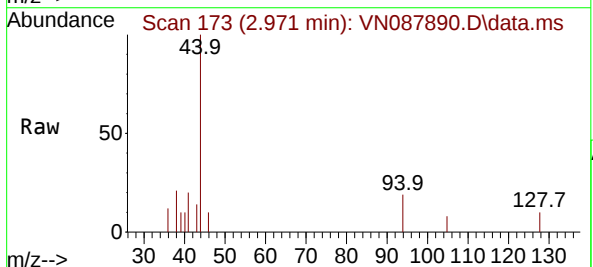
Instrument :
MSVOA_N
ClientSampleId :

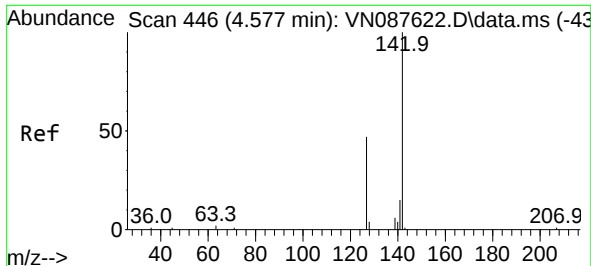
Tgt Ion:168 Resp: 193250
Ion Ratio Lower Upper
168 100
99 63.2 57.2 85.8



#5
Bromomethane
Concen: 0.231 ug/l
RT: 2.971 min Scan# 173
Delta R.T. -0.000 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

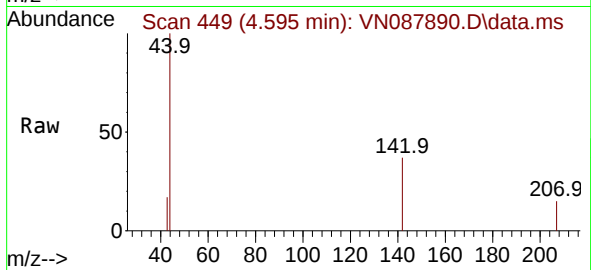
Tgt Ion: 94 Resp: 389
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#



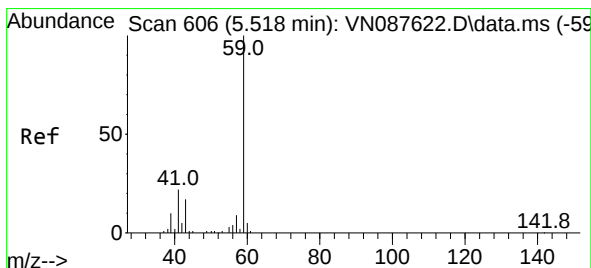
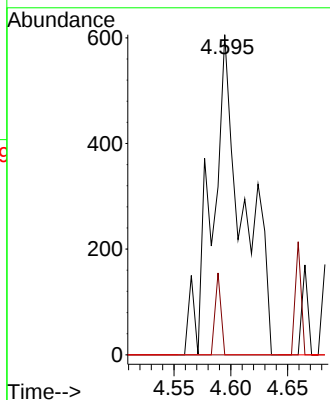
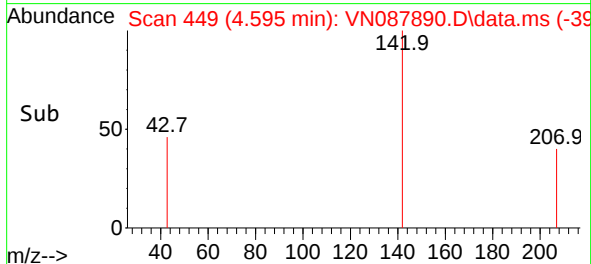


#10
Methyl Iodide
Concen: 7.307 ug/l
RT: 4.595 min Scan# 446
Delta R.T. 0.018 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :

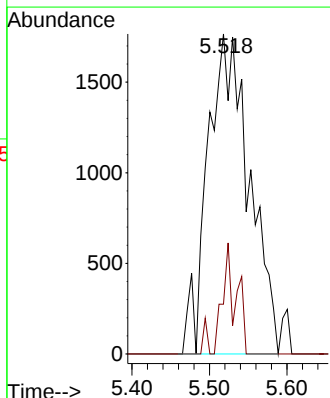
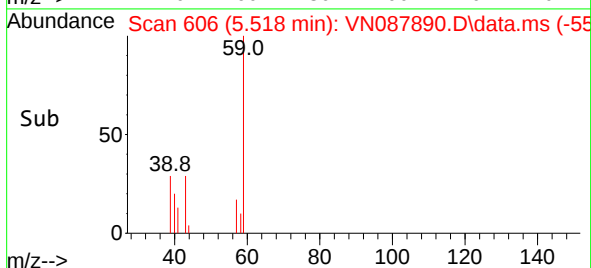
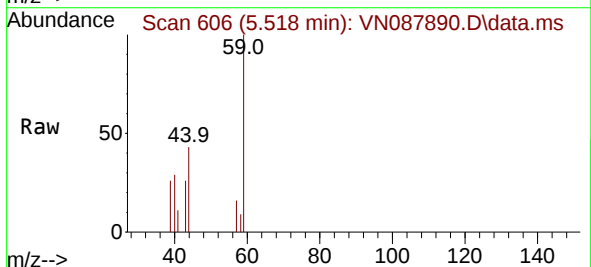


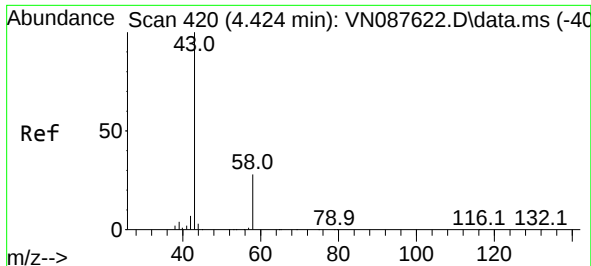
Tgt Ion:142 Resp: 1165
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 9.618 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Tgt Ion: 59 Resp: 6611
Ion Ratio Lower Upper
59 100
57 11.2 9.0 13.4

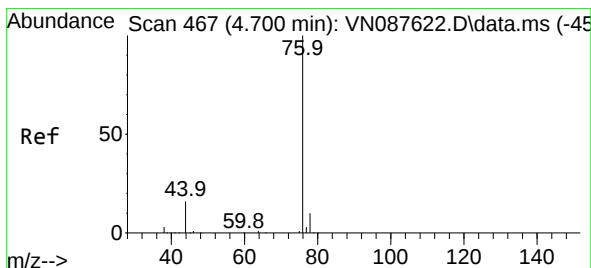
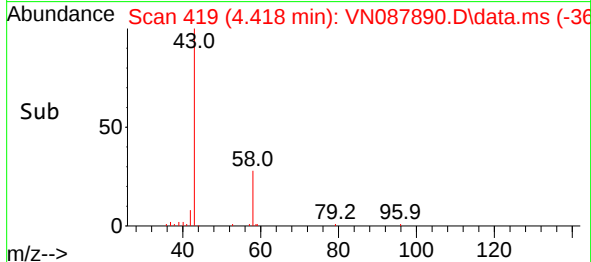
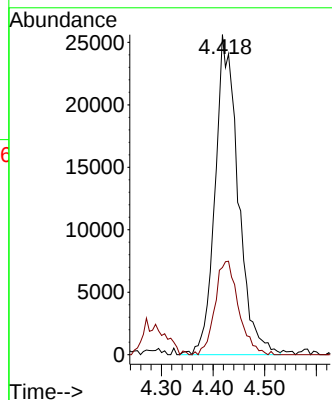
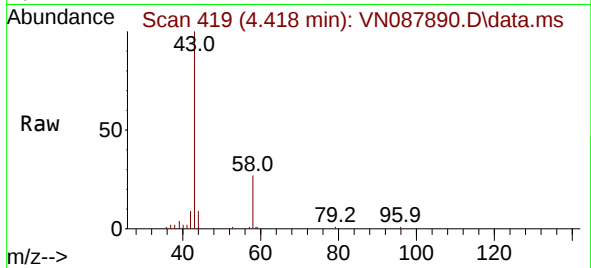




#16
Acetone
Concen: 36.911 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

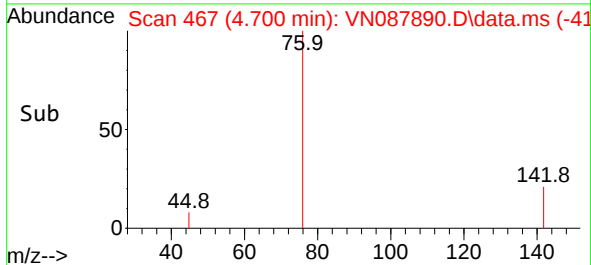
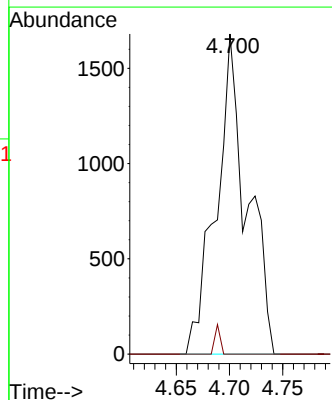
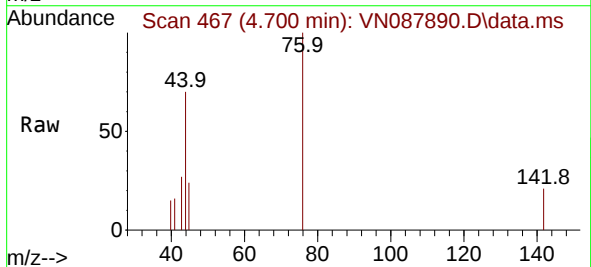
Instrument :
MSVOA_N
ClientSampleId :

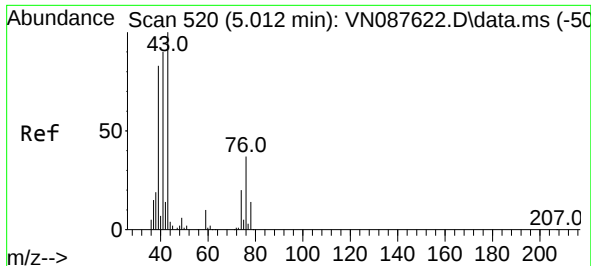
Tgt Ion: 43 Resp: 79559
Ion Ratio Lower Upper
43 100
58 27.3 22.6 33.8



#17
Carbon Disulfide
Concen: 0.441 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Tgt Ion: 76 Resp: 3384
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#





#18

Methyl Acetate

Concen: 6.916 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.000 min MSVOA_N

Lab File: VN087890.D

Acq: 18 Sep 2025 12:45

Instrument :

MSVOA_N

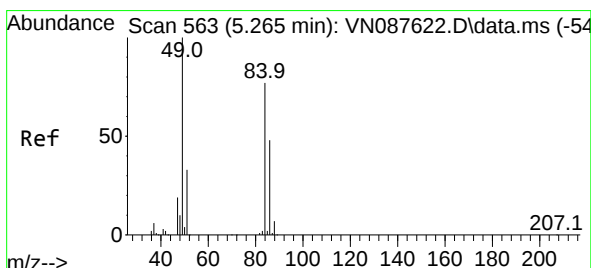
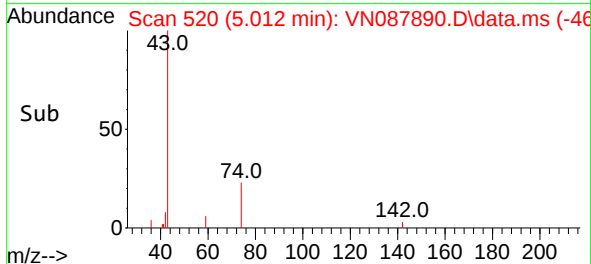
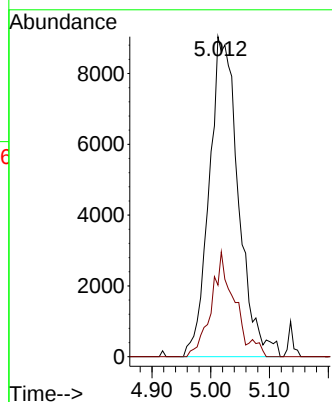
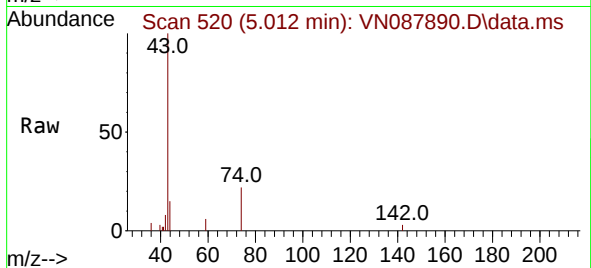
ClientSampleId :

Tgt Ion: 43 Resp: 31213

Ion Ratio Lower Upper

43 100

74 24.8 17.6 26.4



#20

Methylene Chloride

Concen: 5.892 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN087890.D

Acq: 18 Sep 2025 12:45

Tgt Ion: 84 Resp: 21782

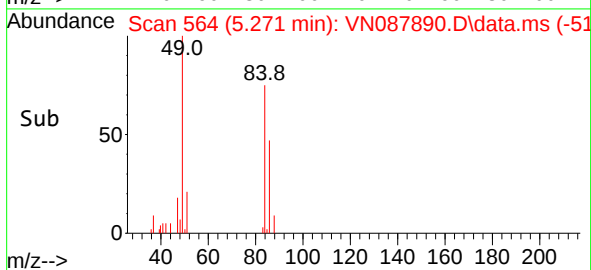
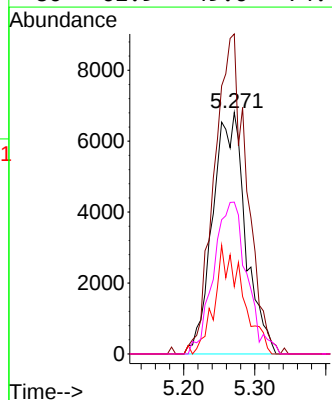
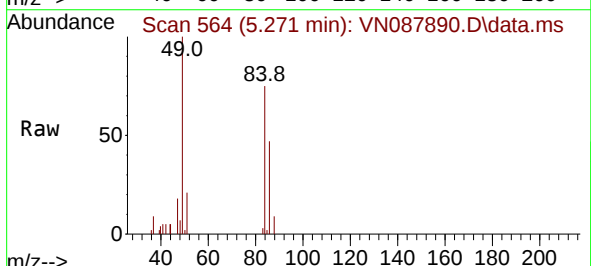
Ion Ratio Lower Upper

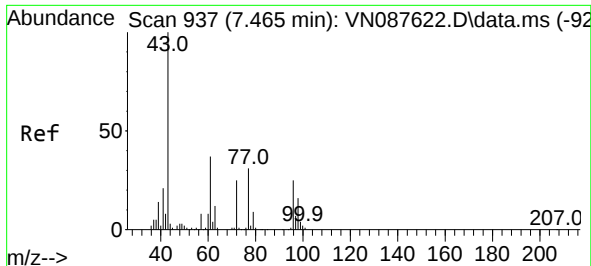
84 100

49 132.5 103.4 155.2

51 27.9 33.8 50.8#

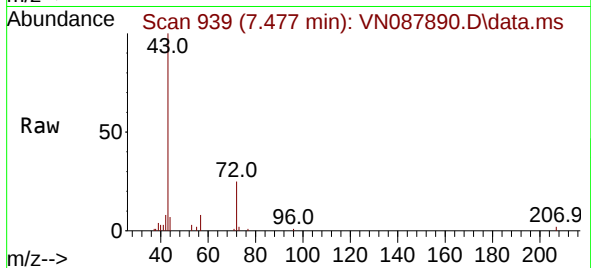
86 62.9 49.6 74.4



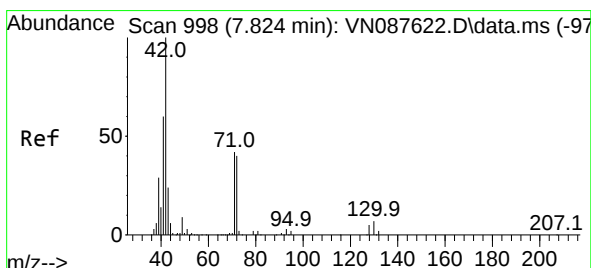
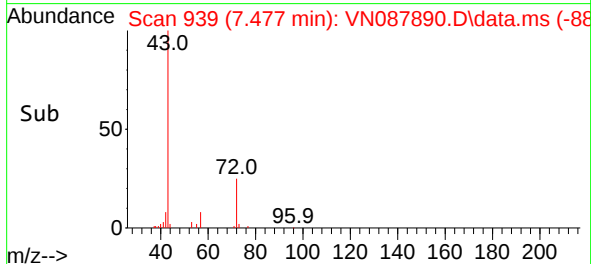
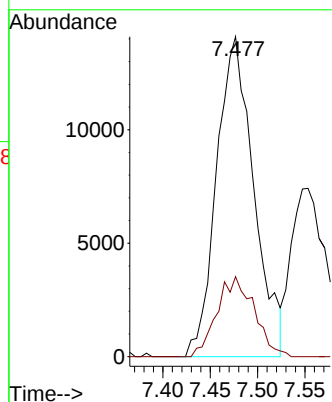


#25
2-Butanone
Concen: 13.609 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Instrument :
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ClientSampleId :

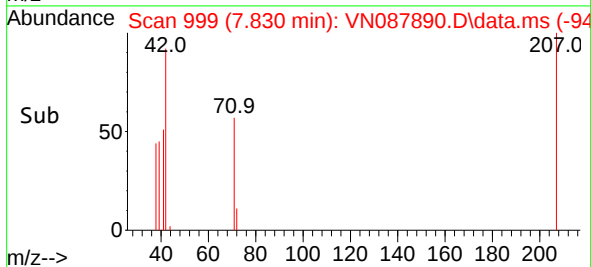
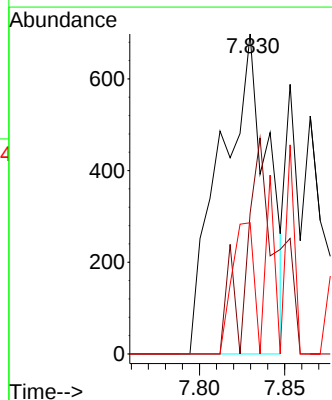
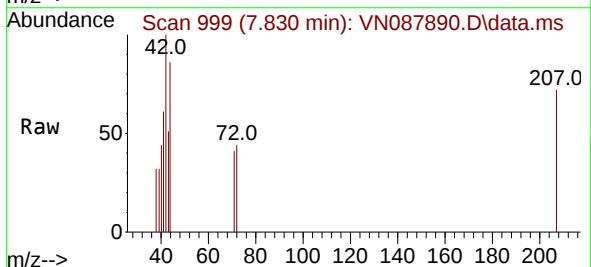


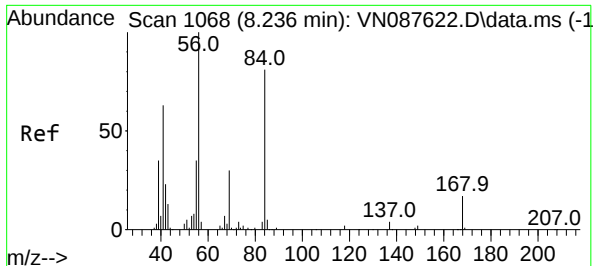
Tgt Ion: 43 Resp: 38590
Ion Ratio Lower Upper
43 100
72 25.0 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.739 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

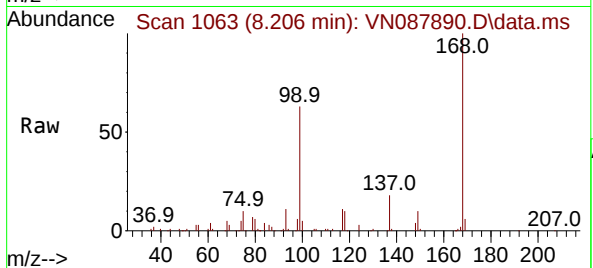
Tgt Ion: 42 Resp: 1349
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 18.8 31.9 47.9#



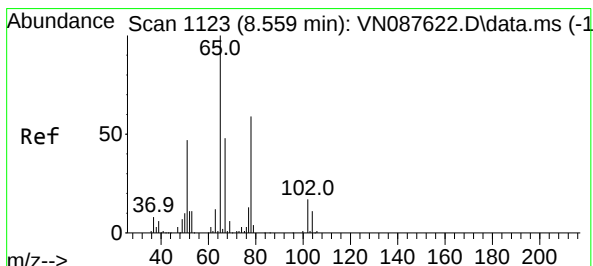
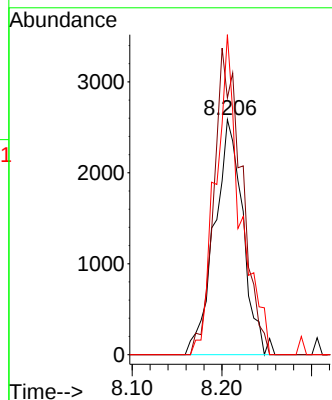
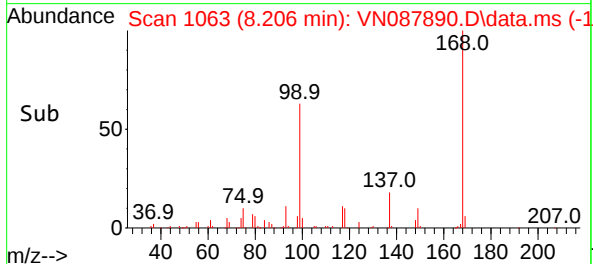


#31
Cyclohexane
Concen: 1.145 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :

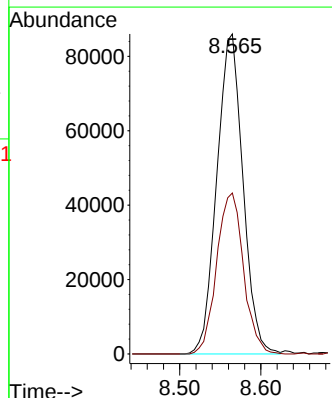
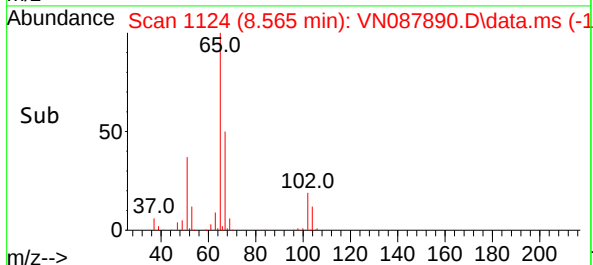
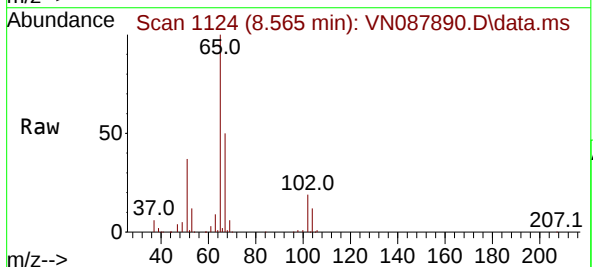


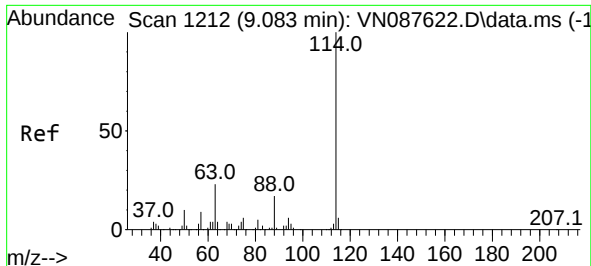
Tgt Ion: 56 Resp: 5700
Ion Ratio Lower Upper
56 100
69 109.2 23.7 35.5#
84 136.1 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 48.600 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

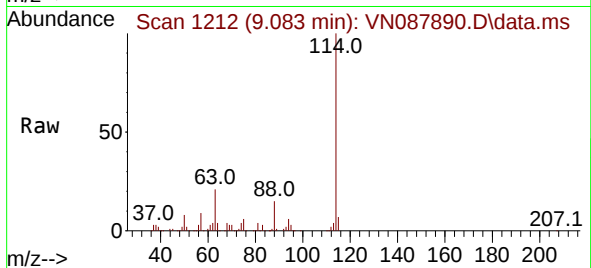
Tgt Ion: 65 Resp: 192432
Ion Ratio Lower Upper
65 100
67 51.6 0.0 100.0



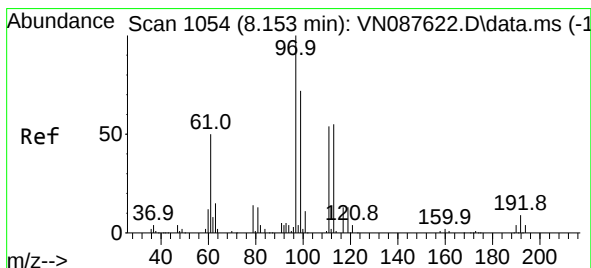
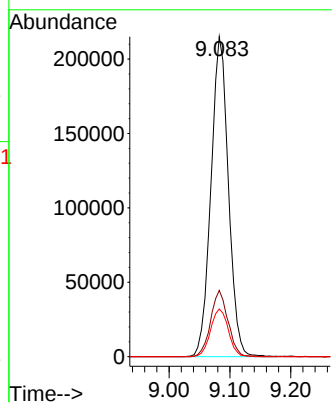
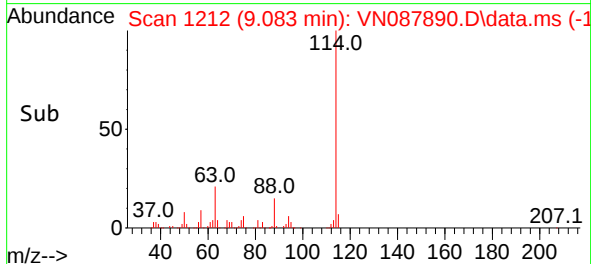


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :

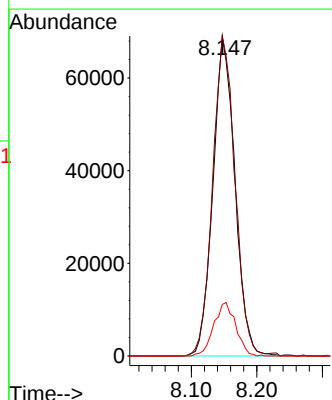
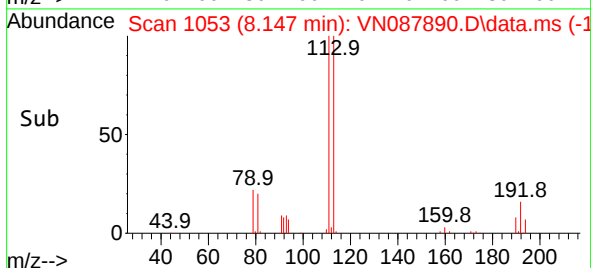
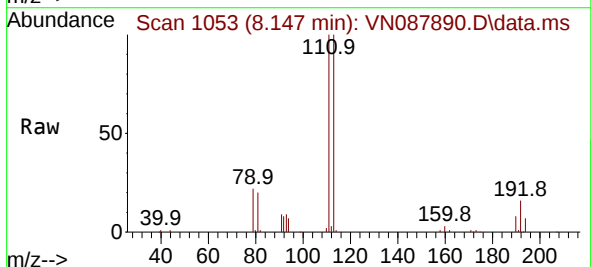


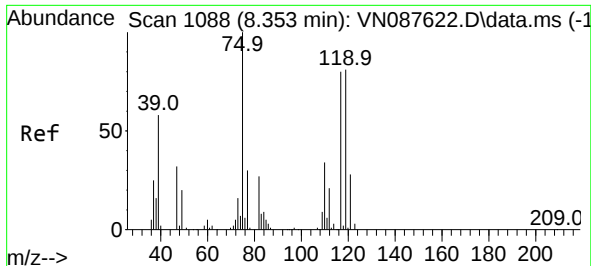
Tgt Ion:114 Resp: 427700
Ion Ratio Lower Upper
114 100
63 20.7 0.0 45.2
88 14.9 0.0 33.4



#35
Dibromofluoromethane
Concen: 52.001 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

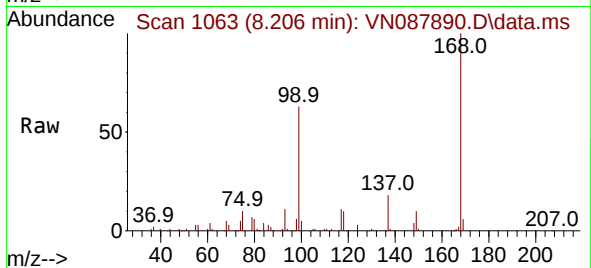
Tgt Ion:113 Resp: 160578
Ion Ratio Lower Upper
113 100
111 101.6 82.8 124.2
192 16.8 12.8 19.2



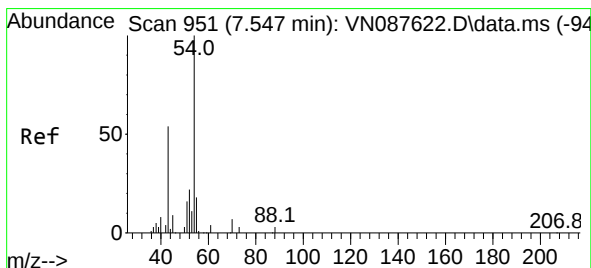
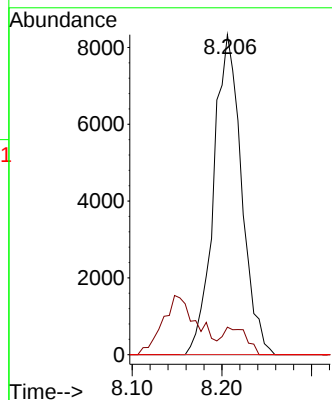
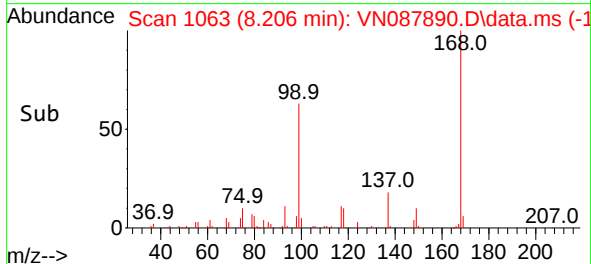


#36
1,1-Dichloropropene
Concen: 3.801 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :

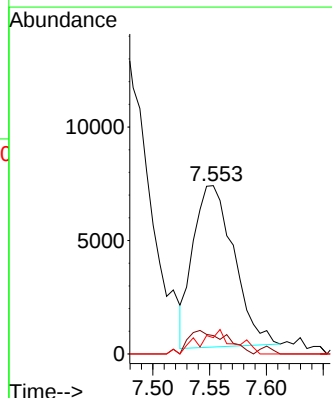
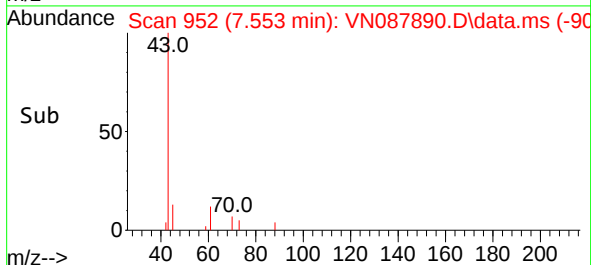
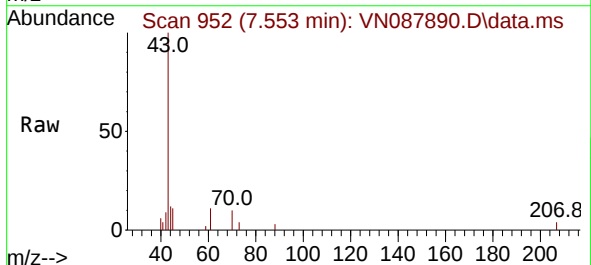


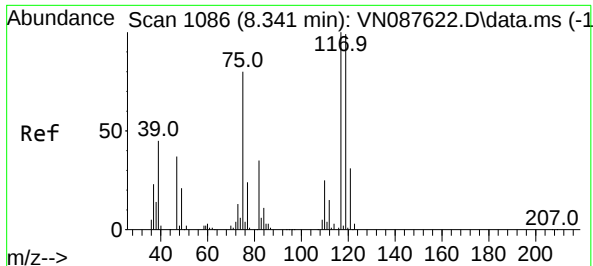
Tgt Ion: 75 Resp: 18007
Ion Ratio Lower Upper
75 100
110 7.3 15.9 47.6#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 2.740 ug/l
RT: 7.553 min Scan# 952
Delta R.T. 0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

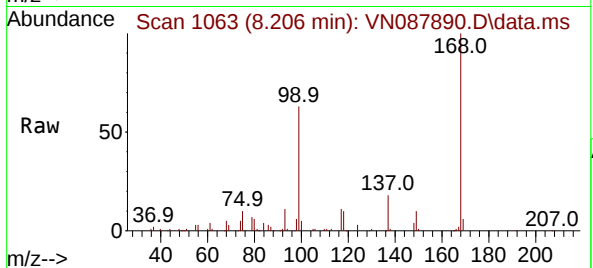
Tgt Ion: 43 Resp: 17740
Ion Ratio Lower Upper
43 100
61 14.0 9.3 13.9#
70 11.0 7.0 10.6#



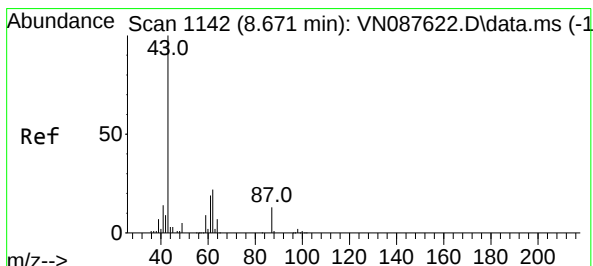
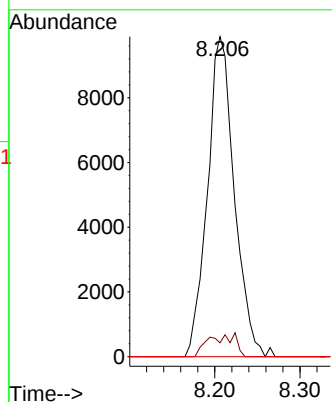
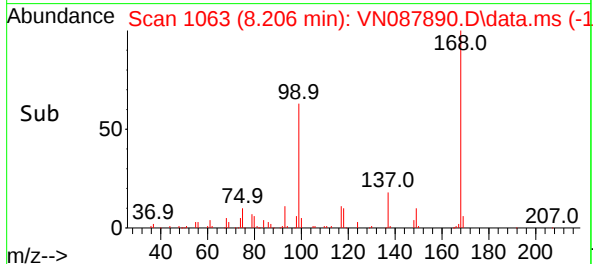


#38
Carbon Tetrachloride
Concen: 4.644 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :

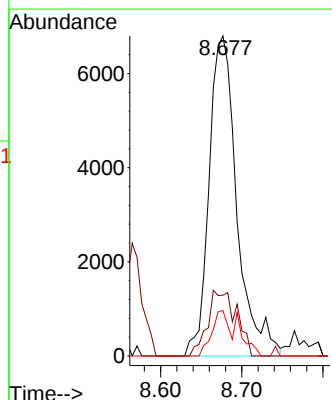
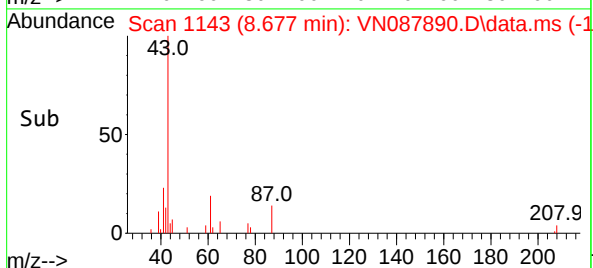
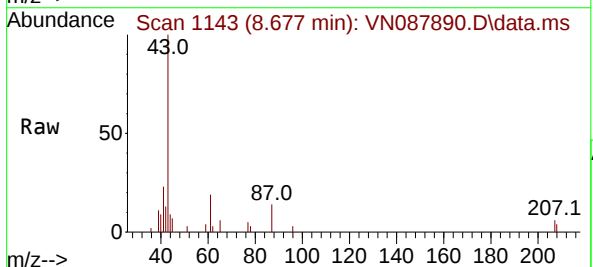


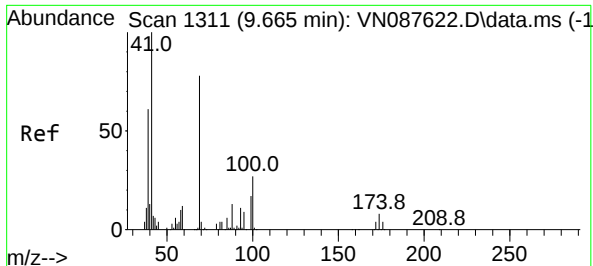
Tgt Ion:117 Resp: 21722
Ion Ratio Lower Upper
117 100
119 4.4 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 1.607 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Tgt Ion: 43 Resp: 16242
Ion Ratio Lower Upper
43 100
61 21.2 18.8 28.2
87 8.7 9.6 14.4#





#48

Methyl methacrylate

Concen: 0.929 ug/l

RT: 9.635 min Scan# 1306

Delta R.T. -0.029 min

Lab File: VN087890.D

Acq: 18 Sep 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

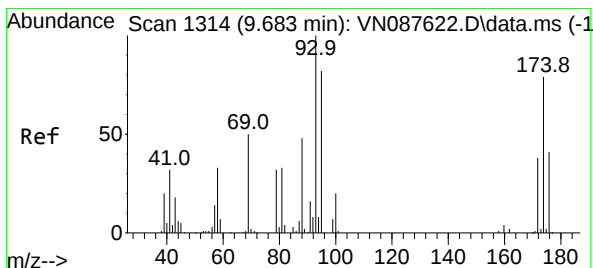
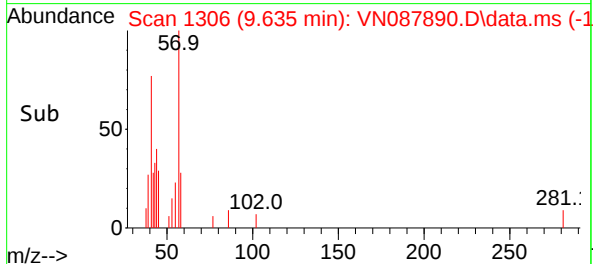
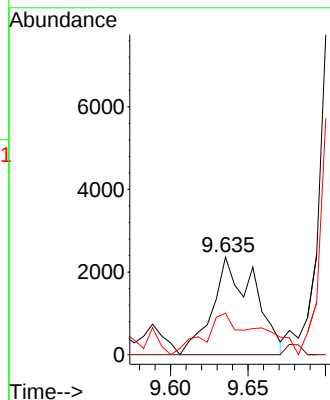
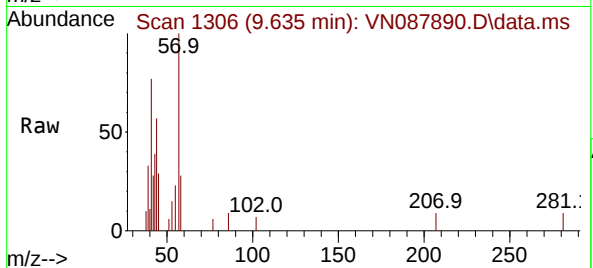
Tgt Ion: 41 Resp: 4439

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 0.0 52.9 79.3#



#49

1,4-Dioxane

Concen: 7.166 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.029 min

Lab File: VN087890.D

Acq: 18 Sep 2025 12:45

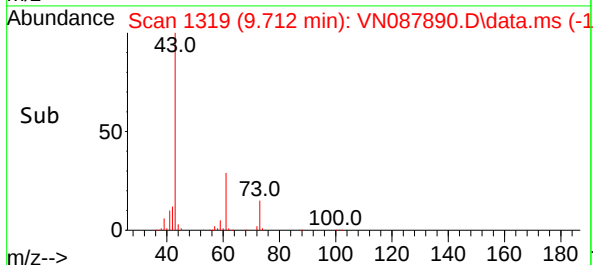
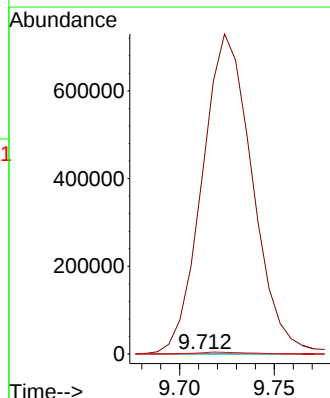
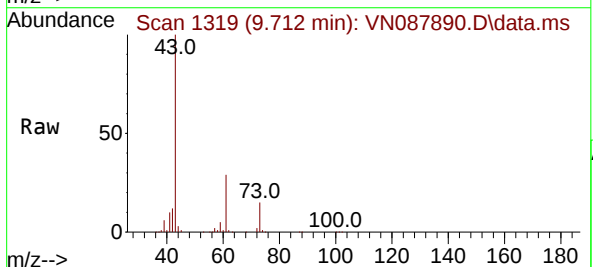
Tgt Ion: 88 Resp: 444

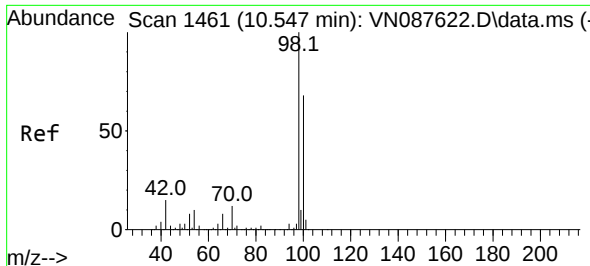
Ion Ratio Lower Upper

88 100

43 307971.8 0.0 0.0#

58 1761.5 57.9 86.9#

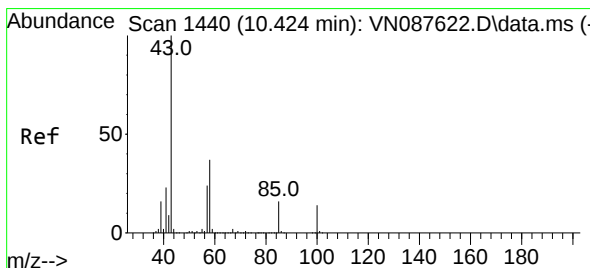
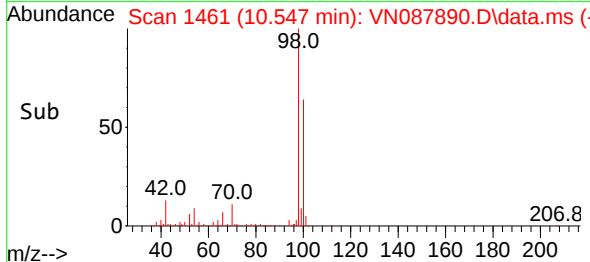
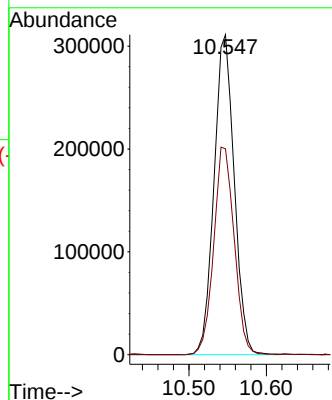
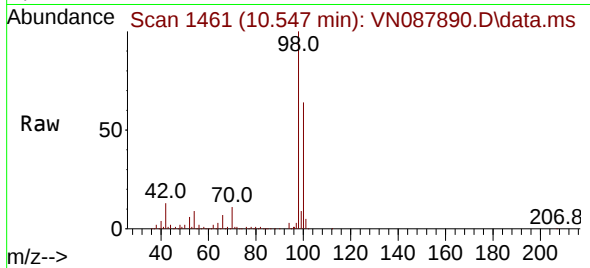




#50
Toluene-d8
Concen: 48.737 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

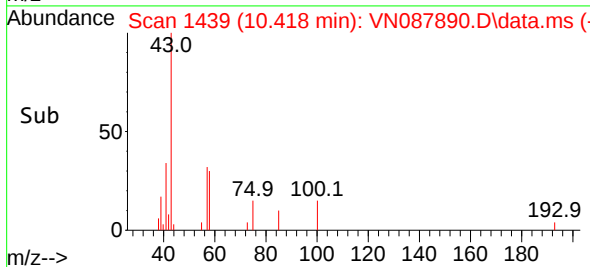
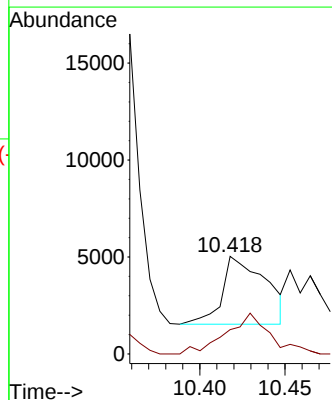
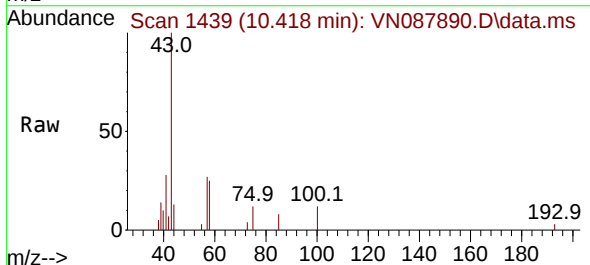
Instrument :
MSVOA_N
ClientSampleId :

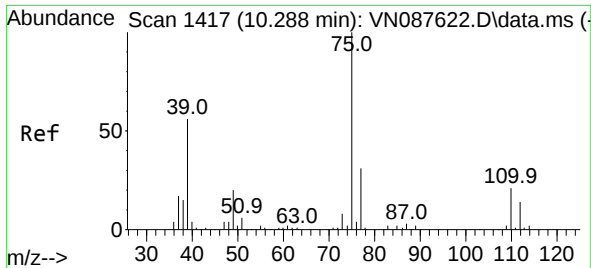
Tgt Ion: 98 Resp: 563286
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.012 ug/l
RT: 10.418 min Scan# 1439
Delta R.T. -0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Tgt Ion: 43 Resp: 6169
Ion Ratio Lower Upper
43 100
58 60.9 29.6 44.4#

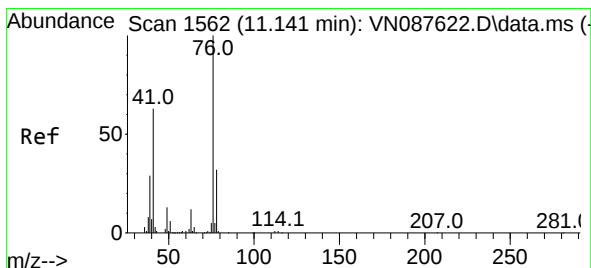
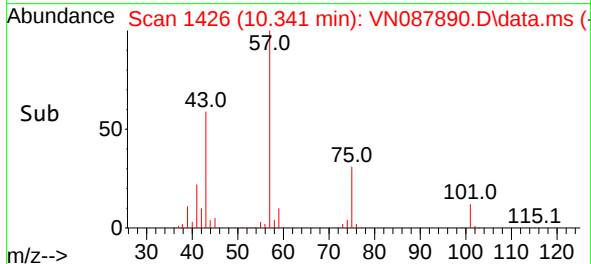
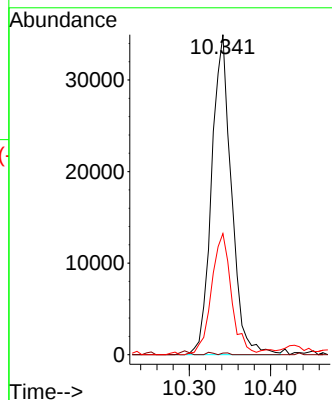
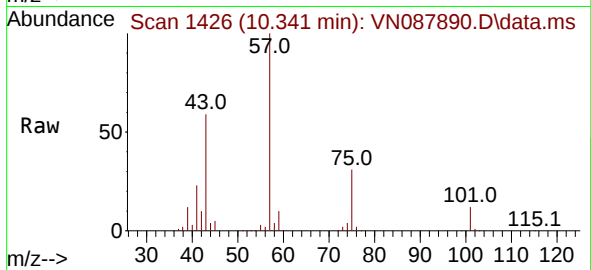




#54
 cis-1,3-Dichloropropene
 Concen: 9.870 ug/l
 RT: 10.341 min Scan# 1417
 Delta R.T. 0.053 min
 Lab File: VN087890.D
 Acq: 18 Sep 2025 12:45

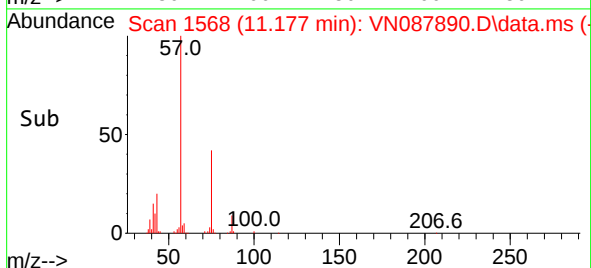
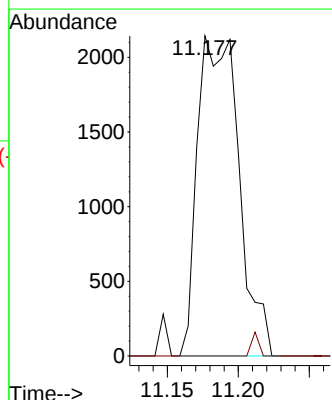
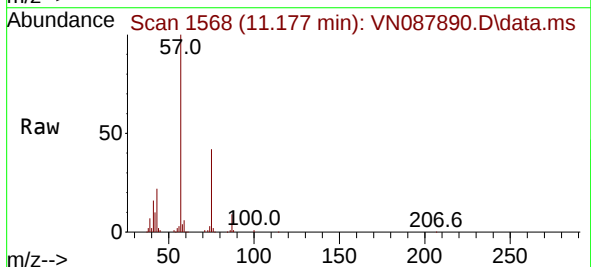
Instrument :
 MSVOA_N
 ClientSampleId :

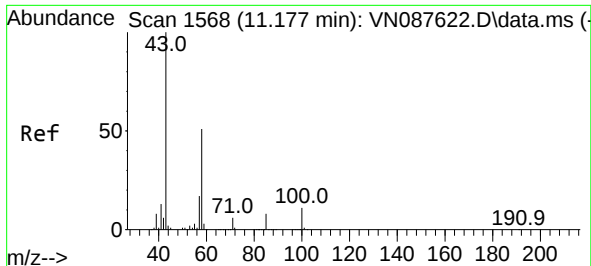
Tgt Ion: 75 Resp: 59256
 Ion Ratio Lower Upper
 75 100
 77 0.5 24.6 37.0#
 39 37.8 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.704 ug/l
 RT: 11.177 min Scan# 1568
 Delta R.T. 0.035 min
 Lab File: VN087890.D
 Acq: 18 Sep 2025 12:45

Tgt Ion: 76 Resp: 4343
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

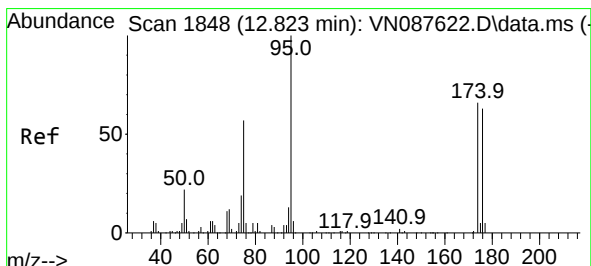
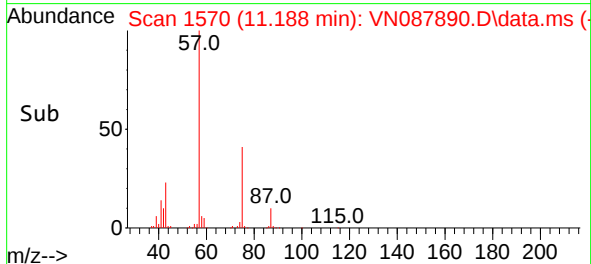
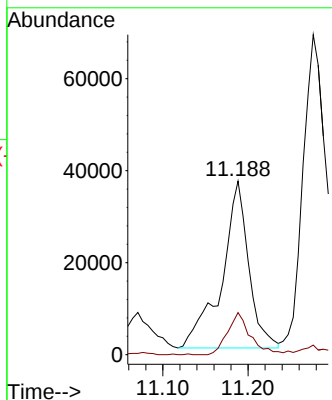
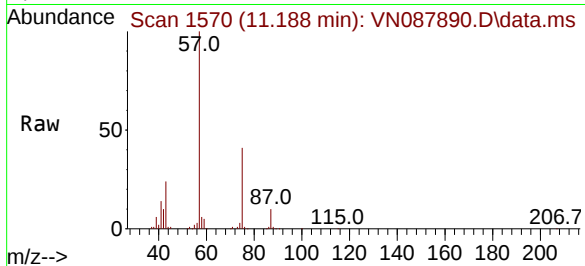




#59
2-Hexanone
Concen: 20.768 ug/l
RT: 11.188 min Scan# 111
Delta R.T. 0.012 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

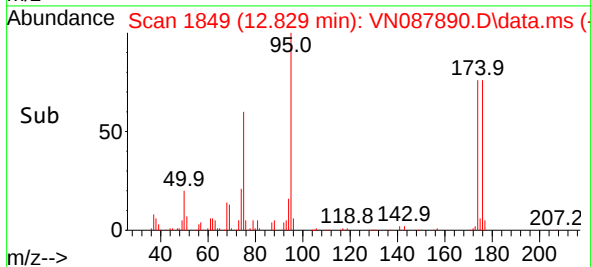
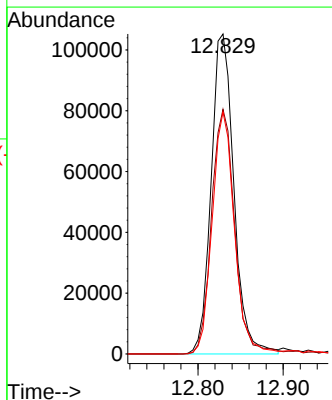
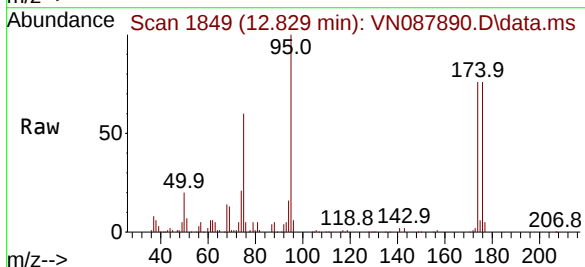
Instrument :
MSVOA_N
ClientSampleId :

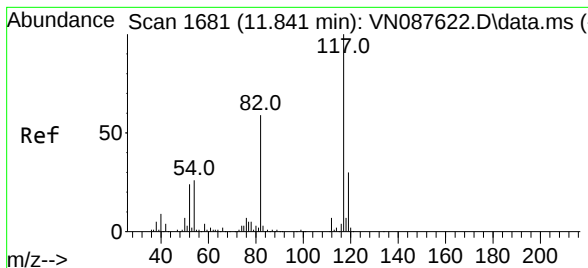
Tgt Ion: 43 Resp: 80035
Ion Ratio Lower Upper
43 100
58 21.3 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 47.580 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Tgt Ion: 95 Resp: 195567
Ion Ratio Lower Upper
95 100
174 77.5 0.0 138.4
176 74.0 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.000 min

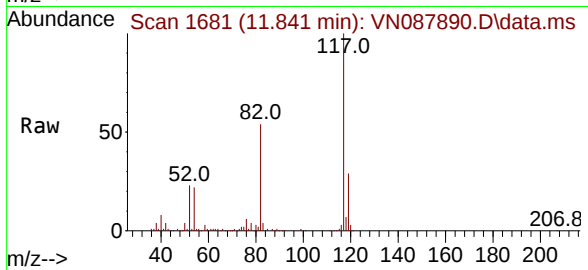
Lab File: VN087890.D

Acq: 18 Sep 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :



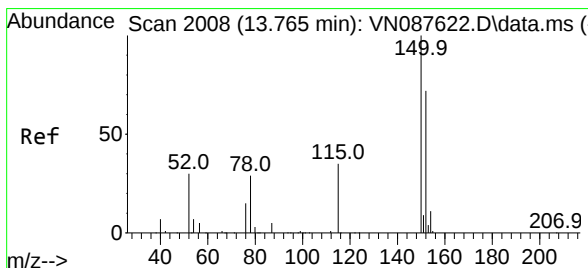
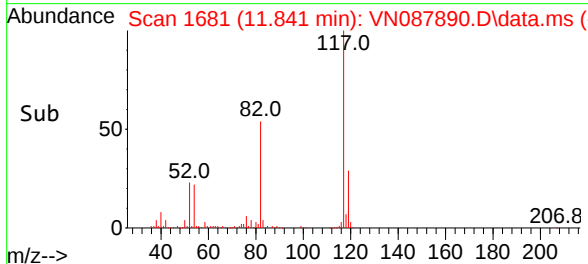
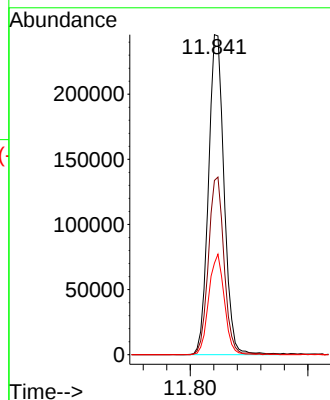
Tgt Ion:117 Resp: 451921

Ion Ratio Lower Upper

117 100

82 54.5 47.4 71.2

119 28.6 24.3 36.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN087890.D

Acq: 18 Sep 2025 12:45

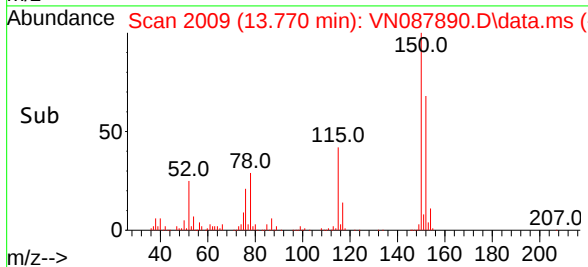
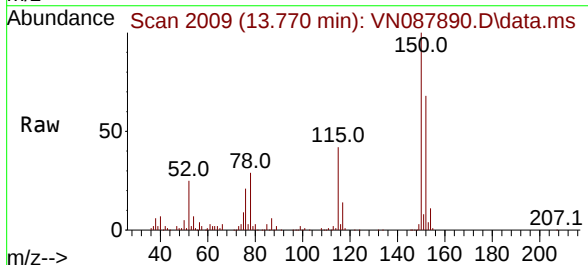
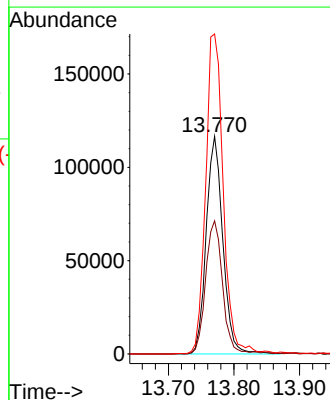
Tgt Ion:152 Resp: 206161

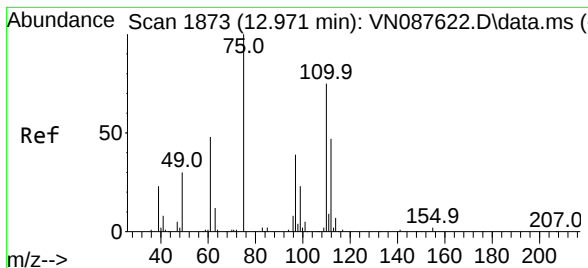
Ion Ratio Lower Upper

152 100

115 62.6 32.3 96.8

150 154.7 0.0 351.0

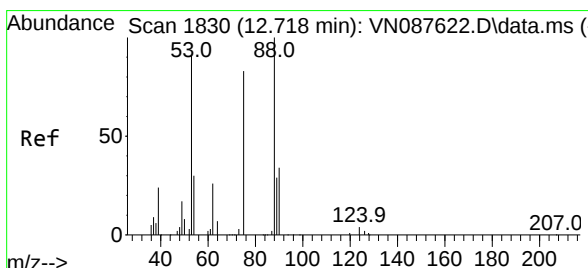
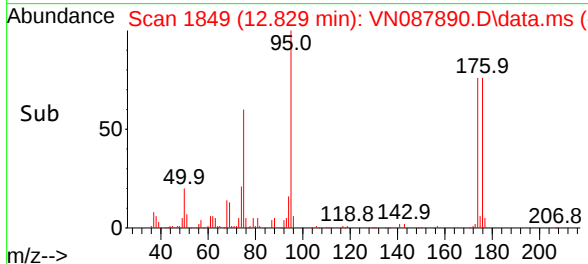
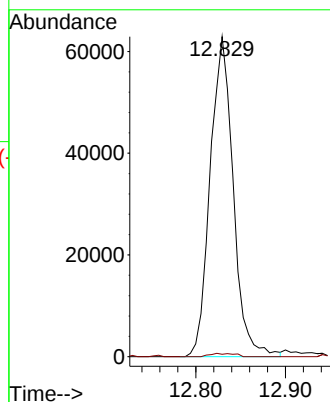
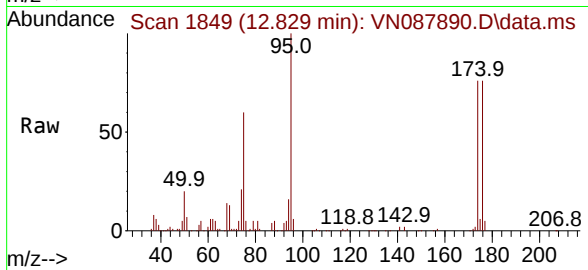




#76
1,2,3-Trichloropropane
Concen: 23.243 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

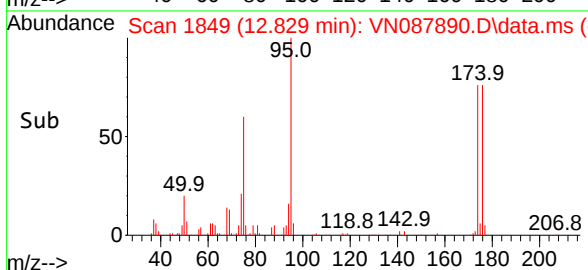
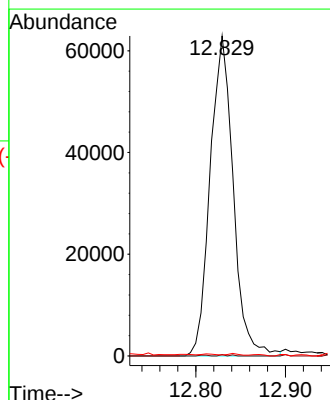
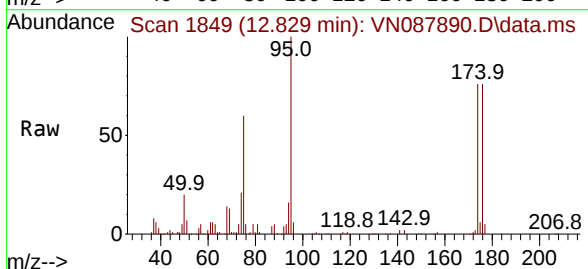
Instrument :
MSVOA_N
ClientSampleId :

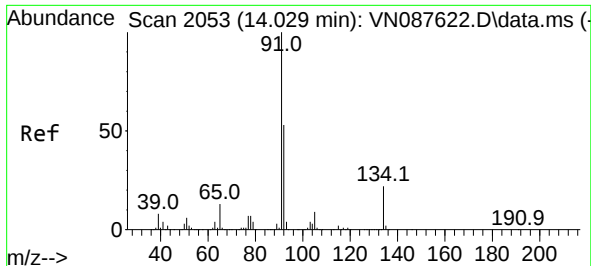
Tgt Ion: 75 Resp: 112368
Ion Ratio Lower Upper
75 100
77 1.1 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.532 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Tgt Ion: 75 Resp: 112368
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.2 35.6 53.4#

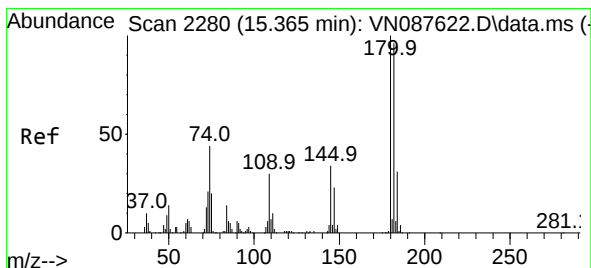
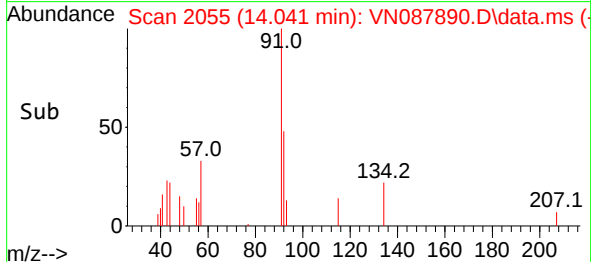
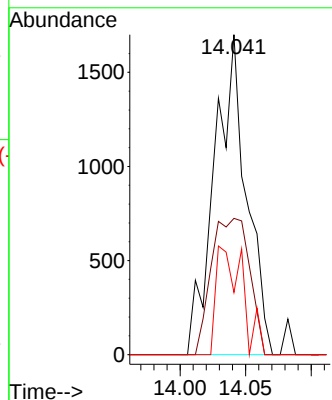
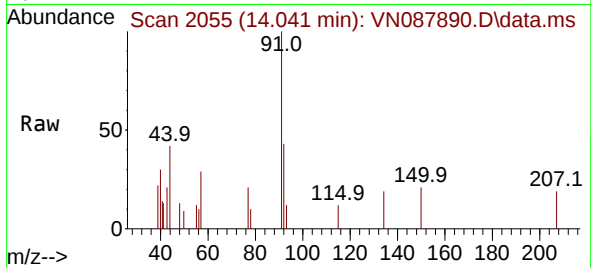




#89
n-Butylbenzene
Concen: 0.201 ug/l
RT: 14.041 min Scan# 2055
Delta R.T. 0.012 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

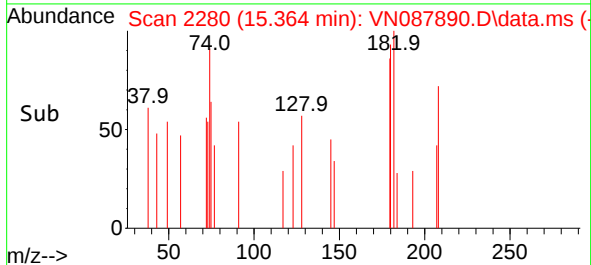
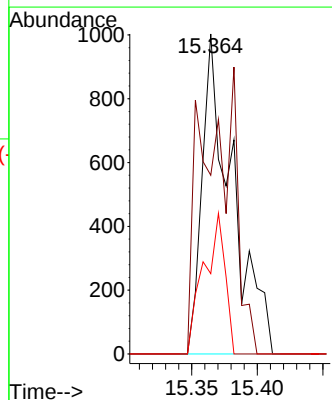
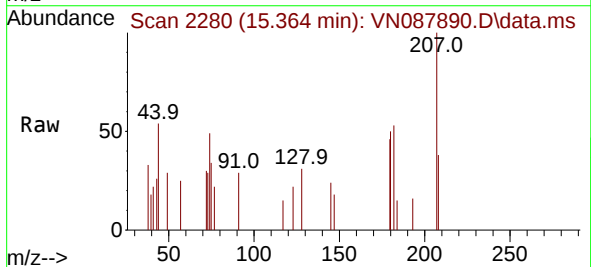
Instrument :
MSVOA_N
ClientSampleId :

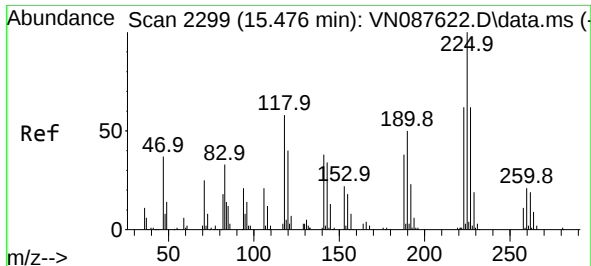
Tgt Ion: 91 Resp: 2883
Ion Ratio Lower Upper
91 100
92 51.1 25.9 77.8
134 27.7 11.7 35.0



#93
1,2,4-Trichlorobenzene
Concen: 0.360 ug/l
RT: 15.364 min Scan# 2280
Delta R.T. -0.000 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

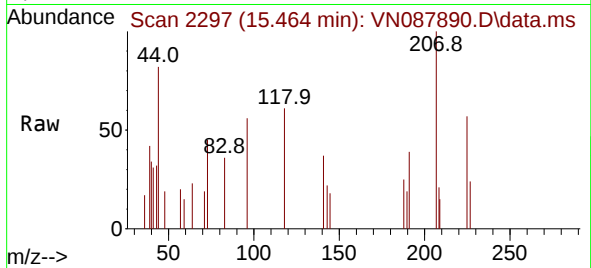
Tgt Ion: 180 Resp: 1586
Ion Ratio Lower Upper
180 100
182 43.6 47.6 142.9#
145 31.4 16.5 49.5



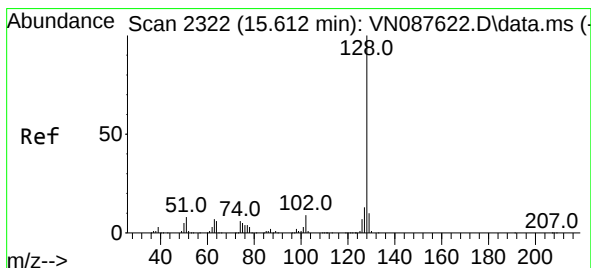
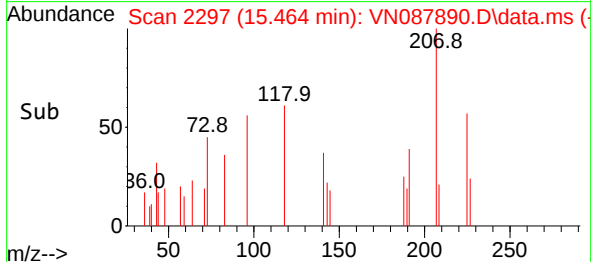
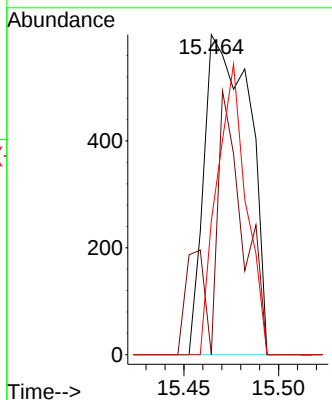


#94
Hexachlorobutadiene
Concen: 0.635 ug/l
RT: 15.464 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :

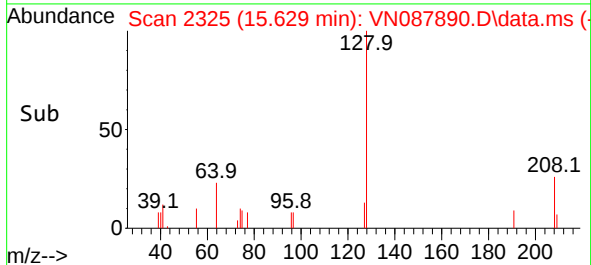
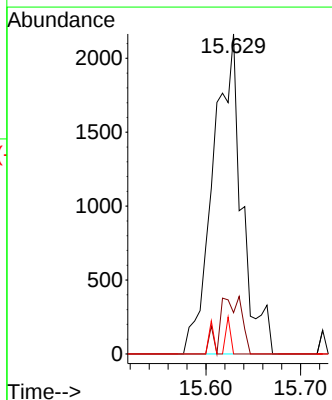
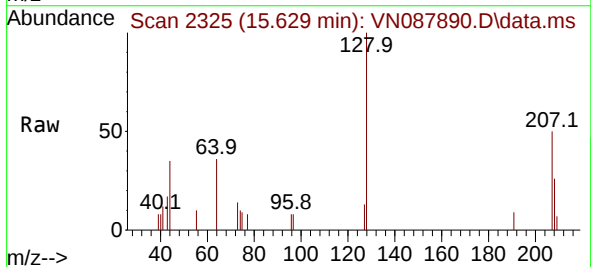


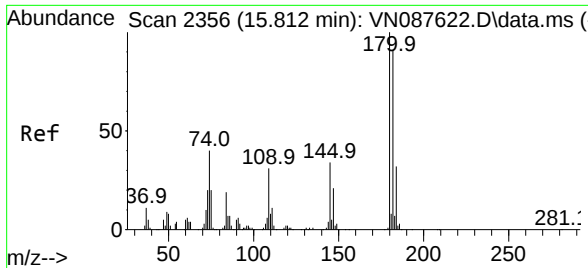
Tgt Ion:	225	Resp:	997
Ion	Ratio	Lower	Upper
225	100		
223	58.5	32.0	96.2
227	59.3	32.1	96.5



#95
Naphthalene
Concen: 0.292 ug/l
RT: 15.629 min Scan# 2325
Delta R.T. 0.018 min
Lab File: VN087890.D
Acq: 18 Sep 2025 12:45

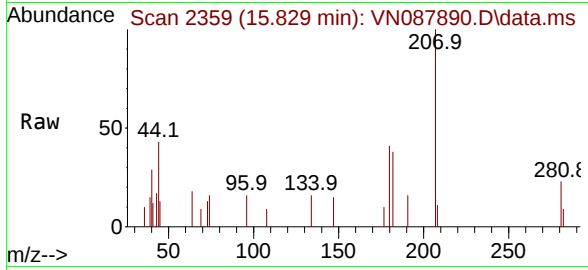
Tgt Ion:	128	Resp:	4562
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	15.8
129	1.9	8.6	12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.300 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VN087890.D
 Acq: 18 Sep 2025 12:45

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1291
Ion Ratio	Lower	Upper	
180	100		
182	0.0	46.8	140.3#
145	4.2	17.3	52.0#

