

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091025\
 Data File : VN087788.D
 Acq On : 10 Sep 2025 17:53
 Operator : JC\MD
 Sample : PB169608TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB169608TB

Quant Time: Sep 11 02:08:44 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

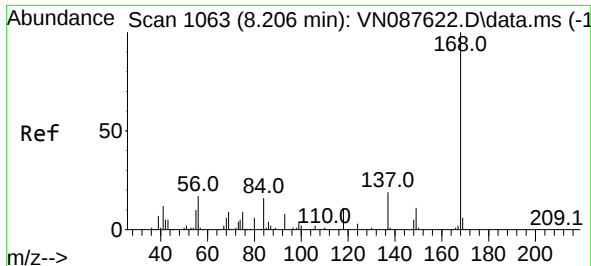
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.212	168	186462	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	416757	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	411964	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	192306	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	197830	51.783	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.560%			
35) Dibromofluoromethane	8.153	113	155274	51.604	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.200%			
50) Toluene-d8	10.547	98	558526	49.594	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.180%			
62) 4-Bromofluorobenzene	12.829	95	194410	48.540	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.080%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	2755	4.154	ug/l #	76
13) Acrolein	4.201	56	262	0.321	ug/l #	52
16) Acetone	4.418	43	74480	35.813	ug/l	99
18) Methyl Acetate	5.024	43	37078	8.515	ug/l	97
20) Methylene Chloride	5.259	84	23693	6.804	ug/l	96
25) 2-Butanone	7.471	43	18470	6.750	ug/l	100
29) Tetrahydrofuran	7.818	42	559	0.317	ug/l #	54
31) Cyclohexane	8.200	56	5534	1.152	ug/l #	55
36) 1,1-Dichloropropene	8.212	75	16808	3.641	ug/l #	51
37) Ethyl Acetate	7.553	43	24464	3.878	ug/l	96
38) Carbon Tetrachloride	8.200	117	21701	4.761	ug/l #	15
40) Benzene	8.594	78	2845	0.201	ug/l #	55
43) Isopropyl Acetate	8.671	43	16673	1.693	ug/l #	92
45) 1,2-Dichloropropane	9.730	63	1856	0.497	ug/l #	43
48) Methyl methacrylate	9.724	41	145409	31.215	ug/l #	46
49) 1,4-Dioxane	9.730	88	64	1.060	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	10790	1.816	ug/l	89
52) Toluene	10.606	92	1845	0.210	ug/l	95
54) cis-1,3-Dichloropropene	10.341	75	71623	12.244	ug/l #	64
57) 1,3-Dichloropropane	11.188	76	4103	0.683	ug/l #	45
59) 2-Hexanone	11.188	43	86586	23.057	ug/l #	51
76) 1,2,3-Trichloropropane	12.823	75	108423	24.042	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	108423	63.649	ug/l #	1
95) Naphthalene	15.617	128	12766	0.877	ug/l #	92

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

Quant Time: Sep 11 02:08:44 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

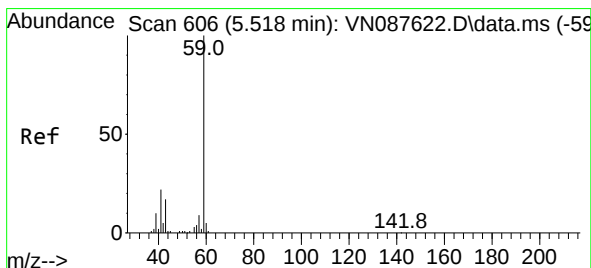
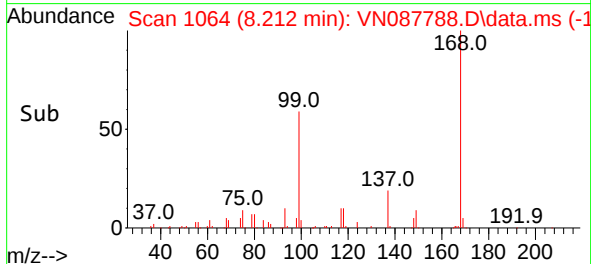
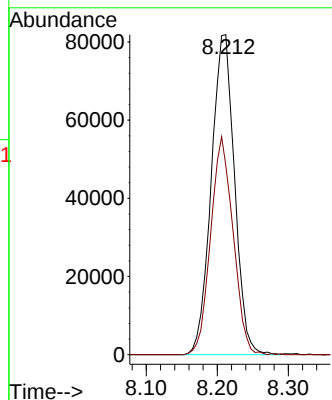
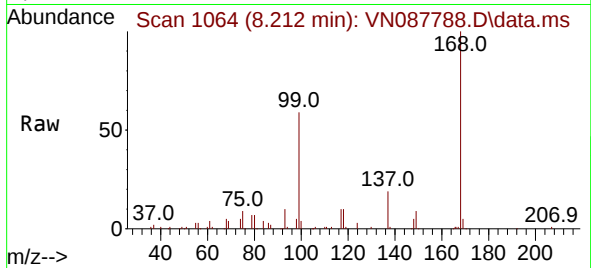




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

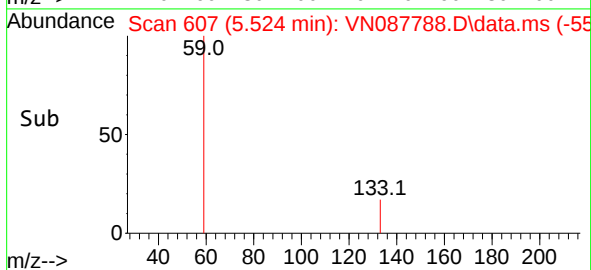
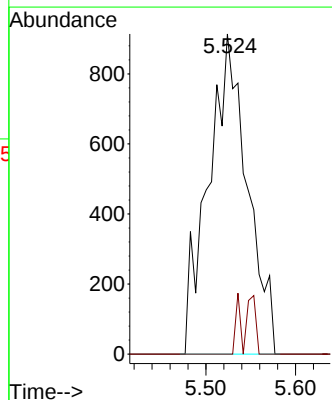
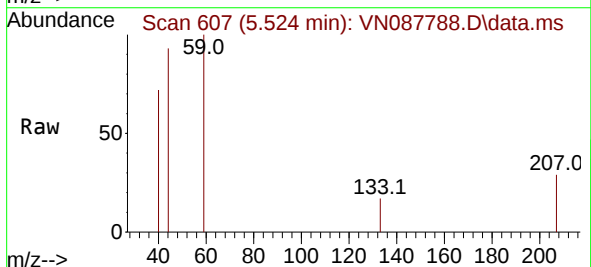
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

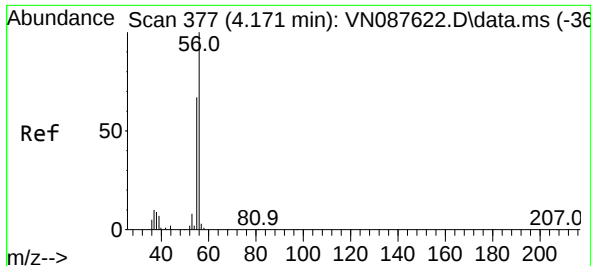
Tgt Ion:168 Resp: 186462
Ion Ratio Lower Upper
168 100
99 59.1 57.2 85.8



#11
Tert butyl alcohol
Concen: 4.154 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 59 Resp: 2755
Ion Ratio Lower Upper
59 100
57 2.2 9.0 13.4#

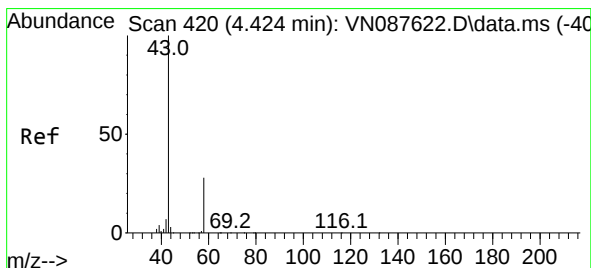
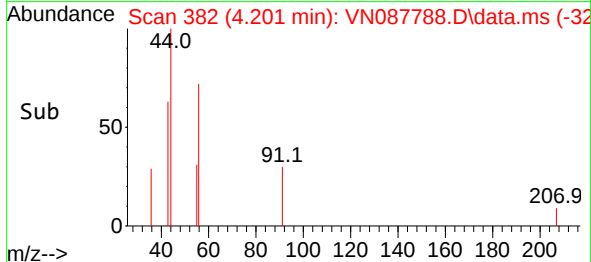
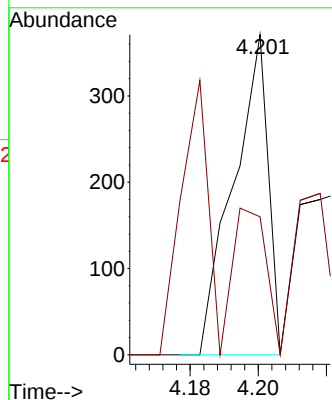
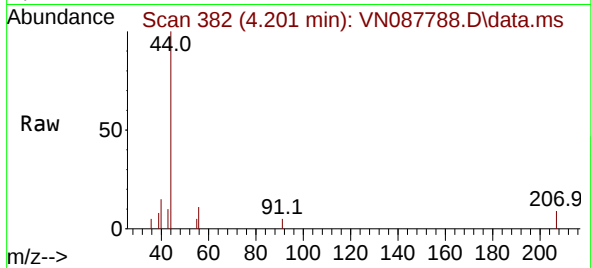




#13
Acrolein
Concen: 0.321 ug/l
RT: 4.201 min Scan# 311
Delta R.T. 0.029 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

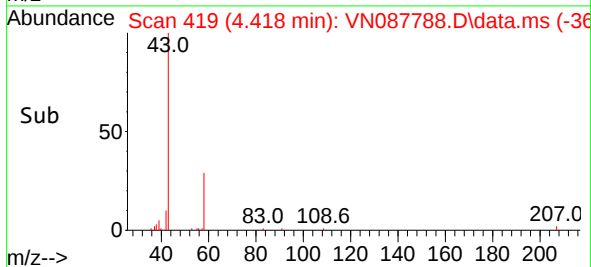
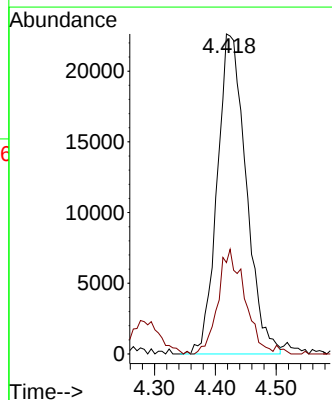
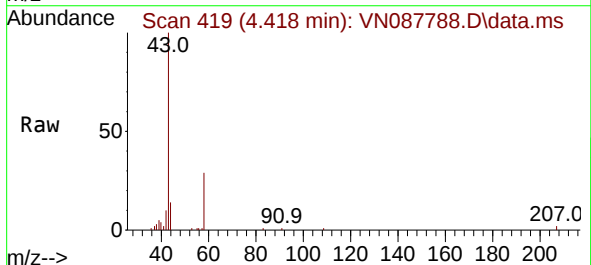
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

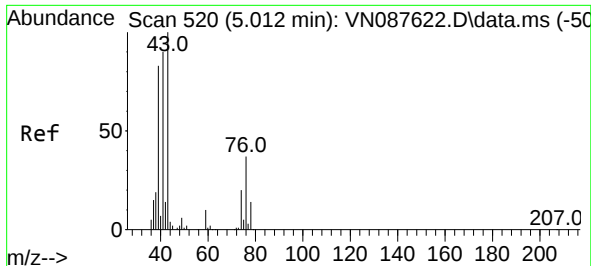
Tgt Ion: 56 Resp: 262
Ion Ratio Lower Upper
56 100
55 111.5 57.3 85.9#



#16
Acetone
Concen: 35.813 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 43 Resp: 74480
Ion Ratio Lower Upper
43 100
58 27.7 22.6 33.8

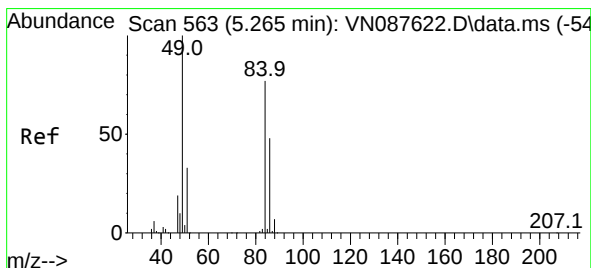
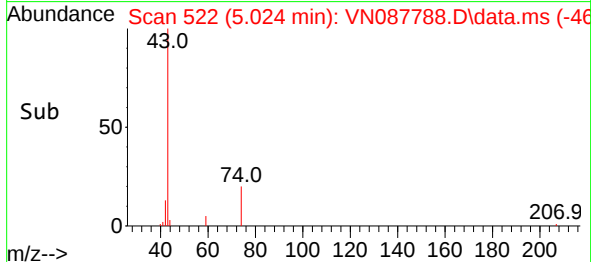
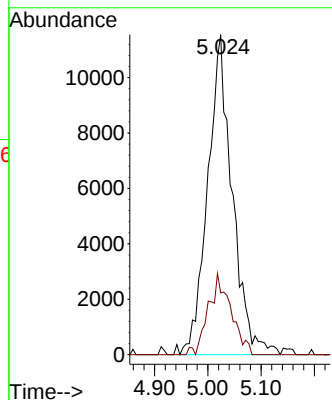
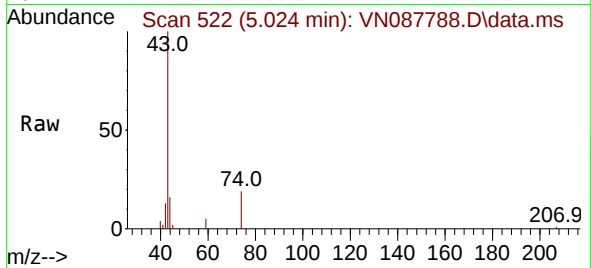




#18
Methyl Acetate
Concen: 8.515 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

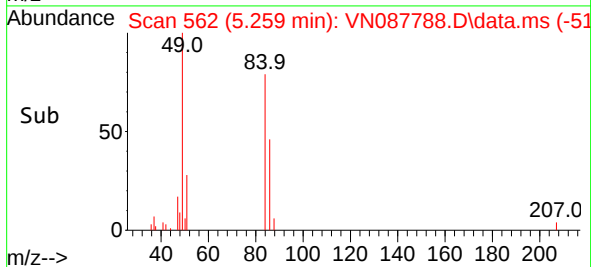
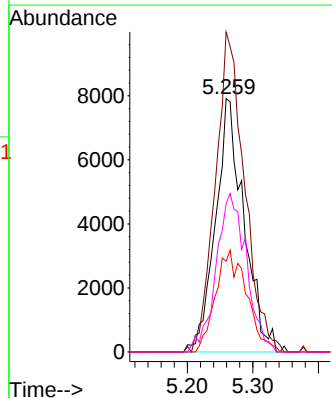
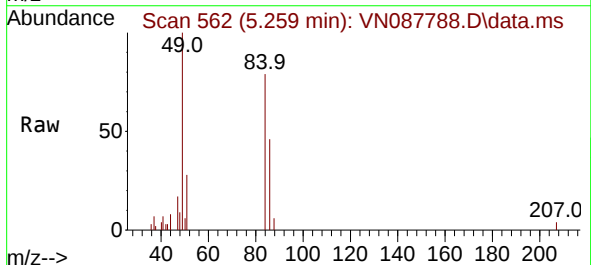
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

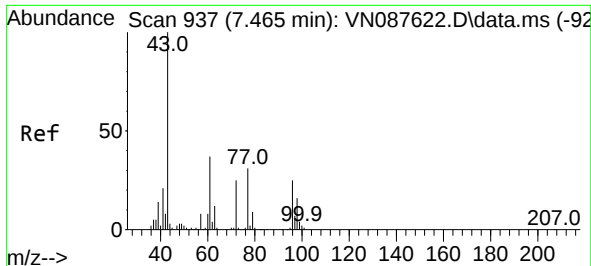
Tgt Ion: 43 Resp: 37078
Ion Ratio Lower Upper
43 100
74 23.3 17.6 26.4



#20
Methylene Chloride
Concen: 6.804 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 84 Resp: 23693
Ion Ratio Lower Upper
84 100
49 126.4 103.4 155.2
51 35.8 33.8 50.8
86 58.5 49.6 74.4

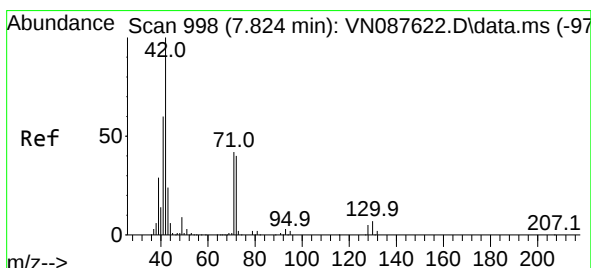
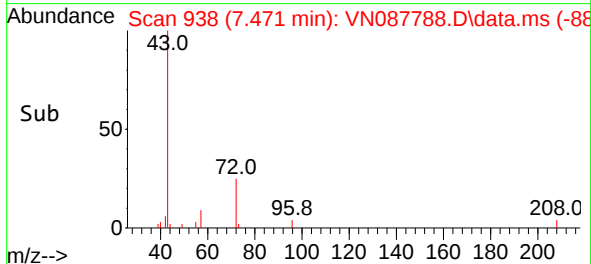
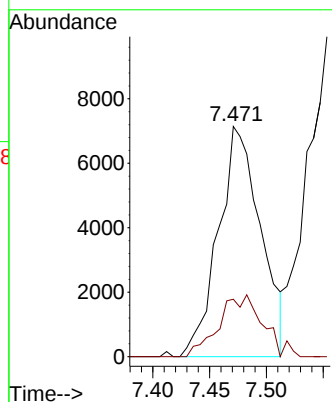
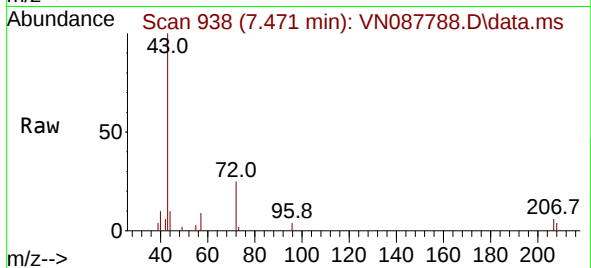




#25
2-Butanone
Concen: 6.750 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

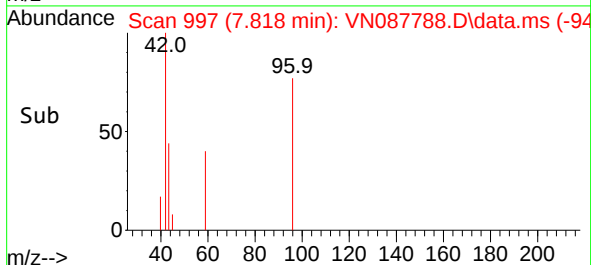
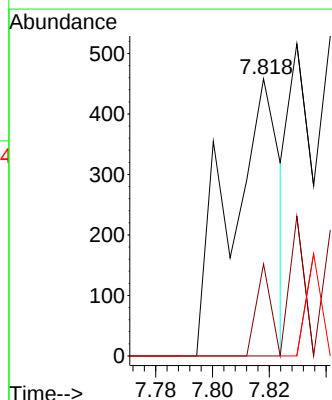
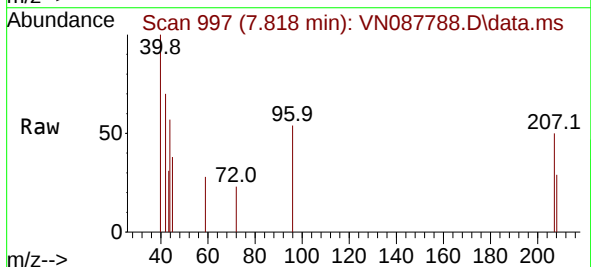
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

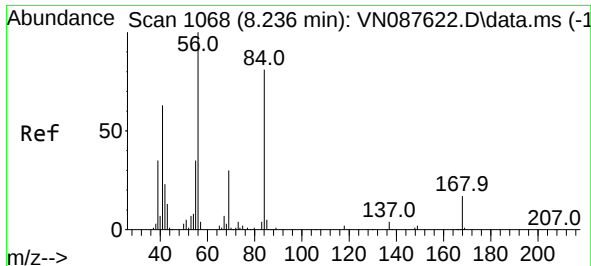
Tgt Ion: 43 Resp: 18470
Ion Ratio Lower Upper
43 100
72 25.0 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.317 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 42 Resp: 559
Ion Ratio Lower Upper
42 100
72 24.2 33.7 50.5#
71 0.0 31.9 47.9#

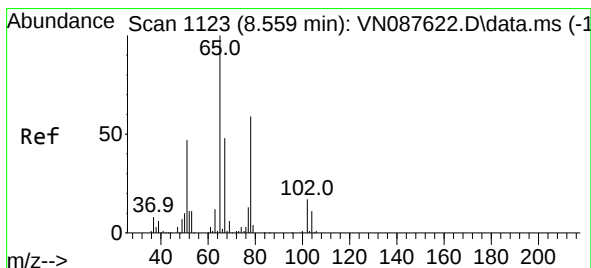
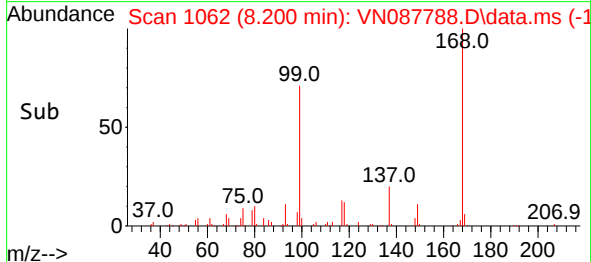
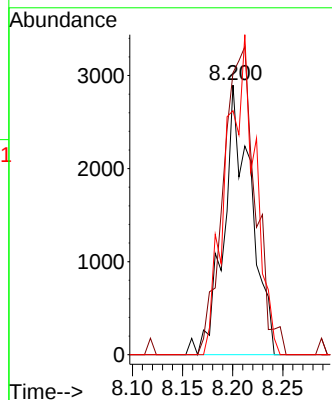
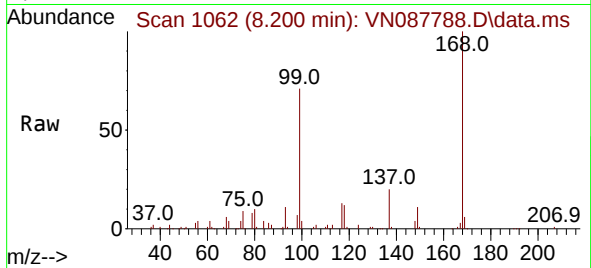




#31
Cyclohexane
Concen: 1.152 ug/l
RT: 8.200 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

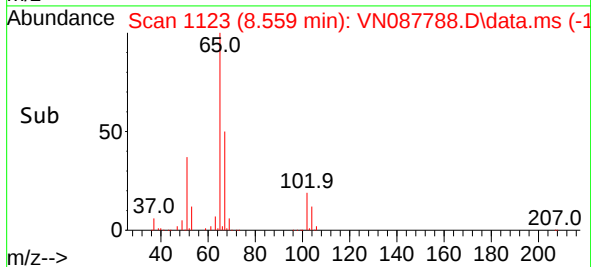
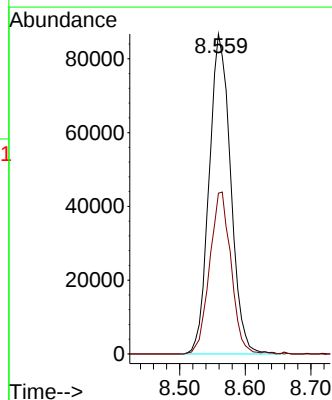
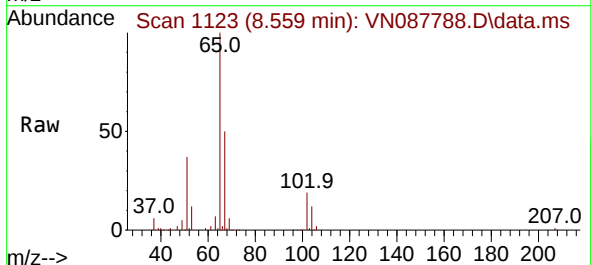
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

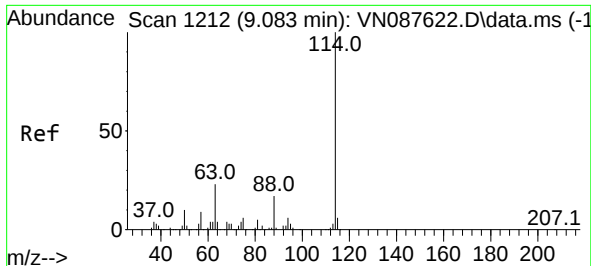
Tgt Ion: 56 Resp: 5534
Ion Ratio Lower Upper
56 100
69 104.5 23.7 35.5#
84 90.5 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 51.783 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 65 Resp: 197830
Ion Ratio Lower Upper
65 100
67 50.3 0.0 100.0

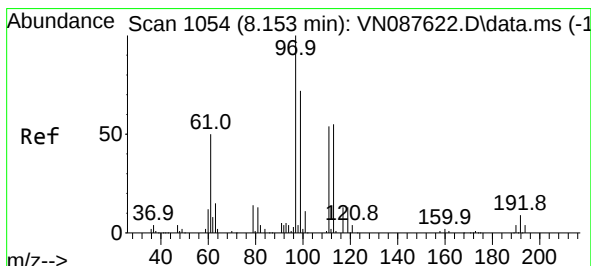
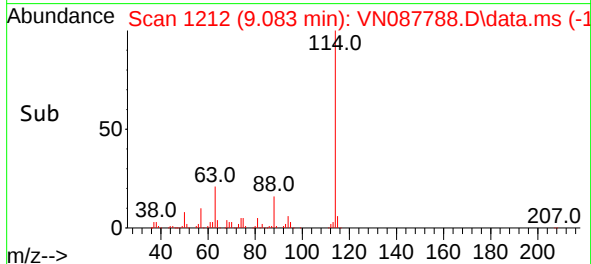
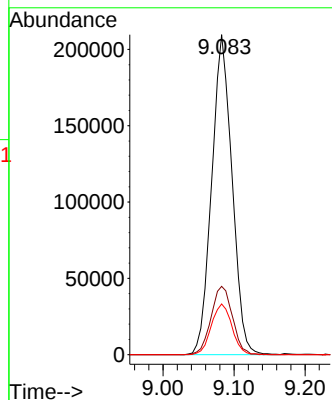
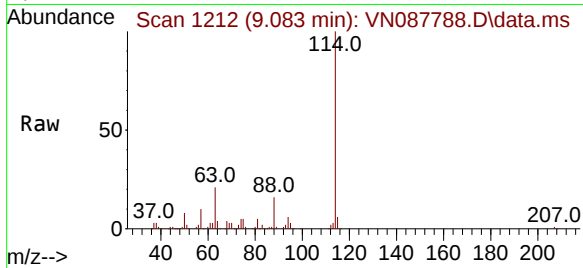




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

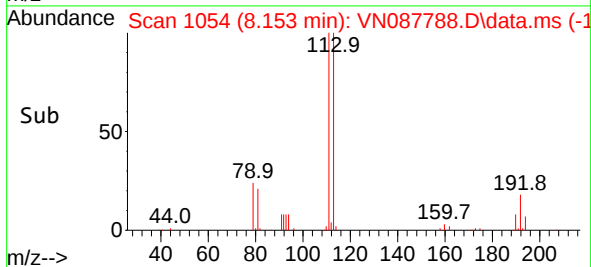
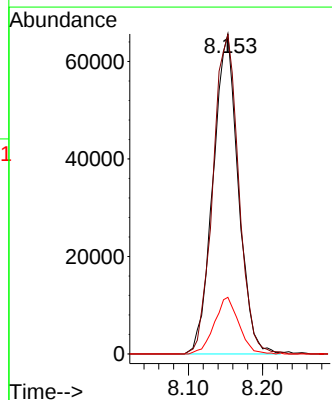
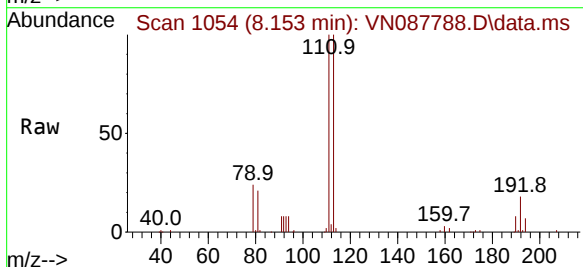
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

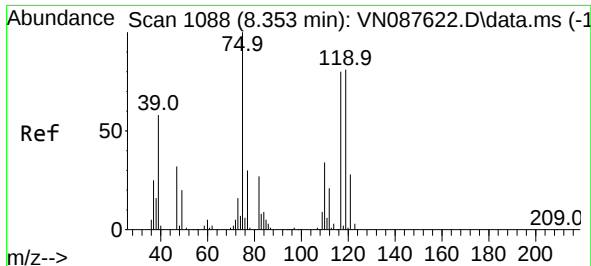
Tgt Ion:114 Resp: 416757
Ion Ratio Lower Upper
114 100
63 21.3 0.0 45.2
88 15.8 0.0 33.4



#35
Dibromofluoromethane
Concen: 51.604 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion:113 Resp: 155274
Ion Ratio Lower Upper
113 100
111 101.8 82.8 124.2
192 17.2 12.8 19.2

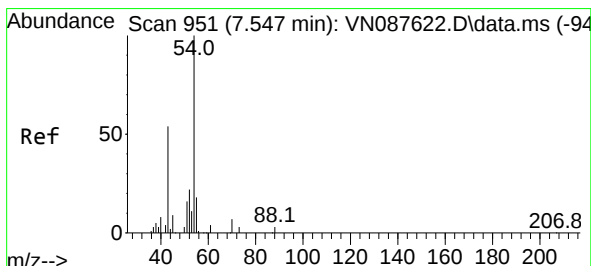
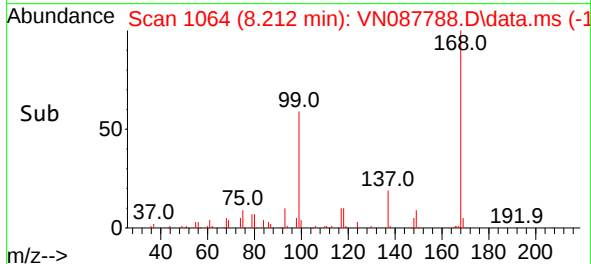
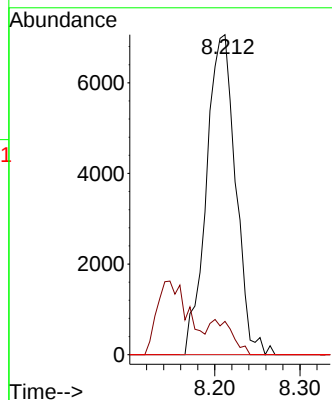
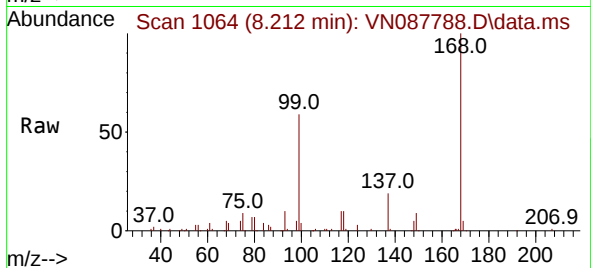




#36
1,1-Dichloropropene
Concen: 3.641 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.141 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

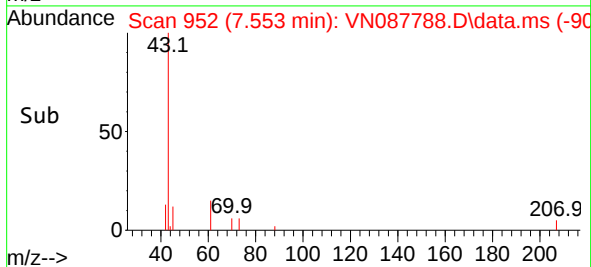
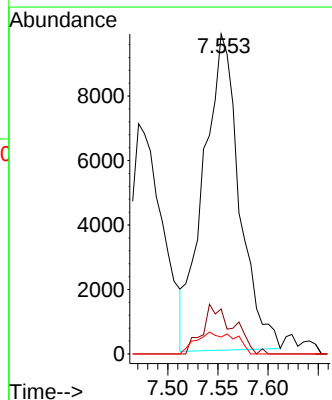
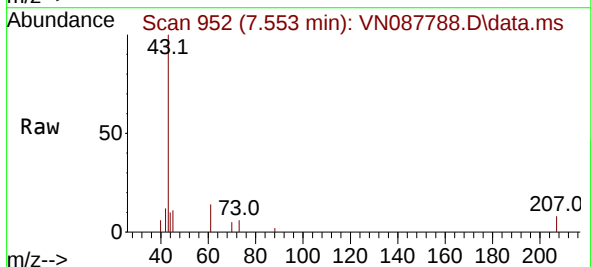
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

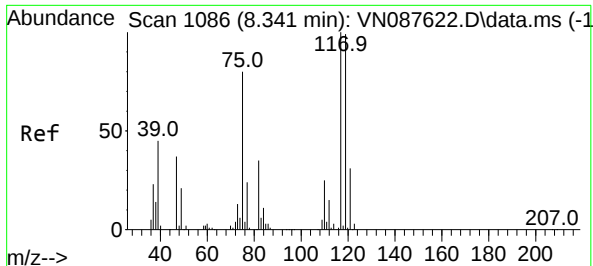
Tgt Ion: 75 Resp: 16808
Ion Ratio Lower Upper
75 100
110 8.6 15.9 47.6#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 3.878 ug/l
RT: 7.553 min Scan# 952
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 43 Resp: 24464
Ion Ratio Lower Upper
43 100
61 13.5 9.3 13.9
70 7.5 7.0 10.6

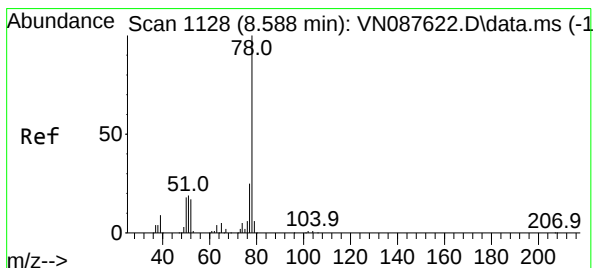
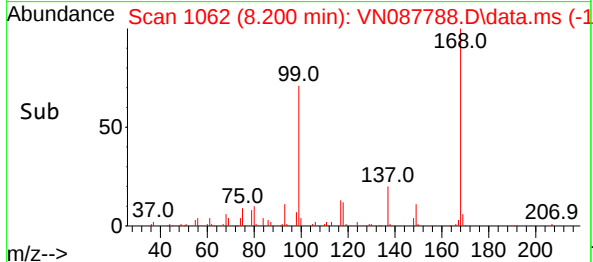
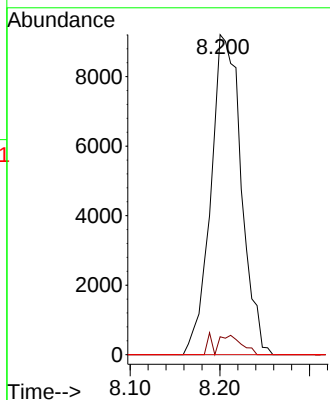
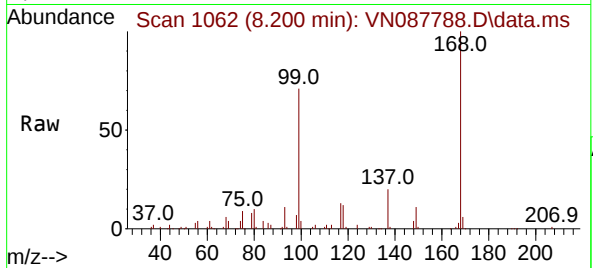




#38
Carbon Tetrachloride
Concen: 4.761 ug/l
RT: 8.200 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

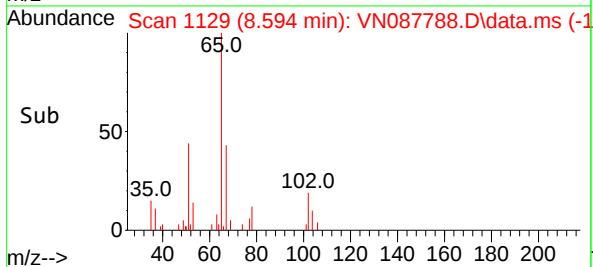
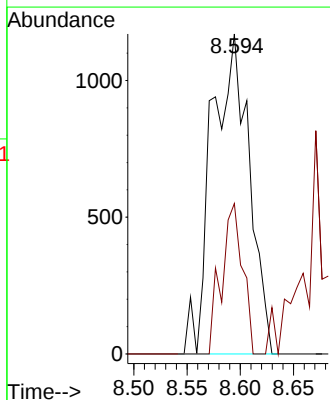
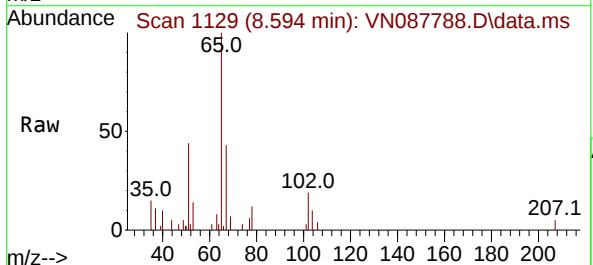
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

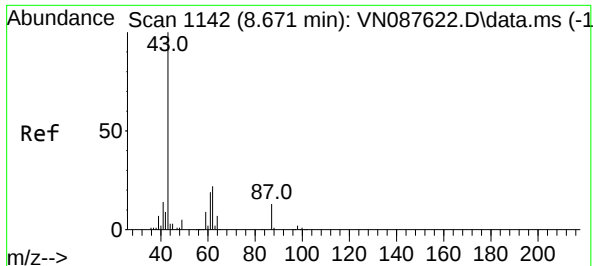
Tgt Ion:117 Resp: 21701
Ion Ratio Lower Upper
117 100
119 5.6 79.0 118.6#
121 0.0 25.0 37.6#



#40
Benzene
Concen: 0.201 ug/l
RT: 8.594 min Scan# 1129
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 78 Resp: 2845
Ion Ratio Lower Upper
78 100
77 47.0 19.7 29.5#

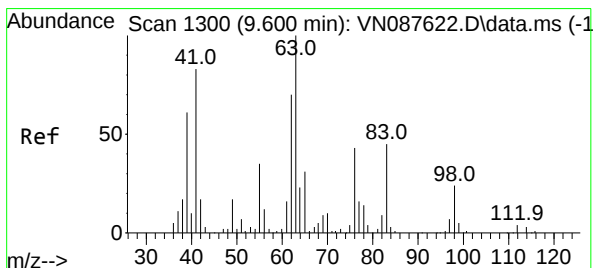
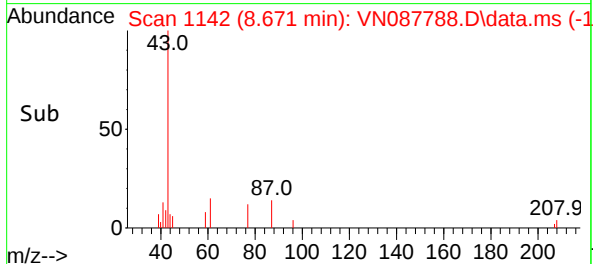
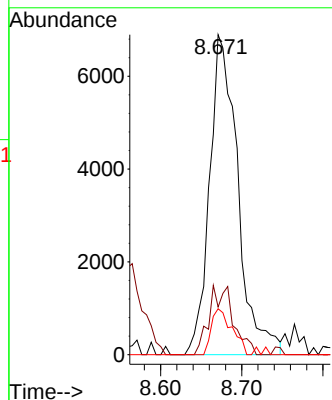
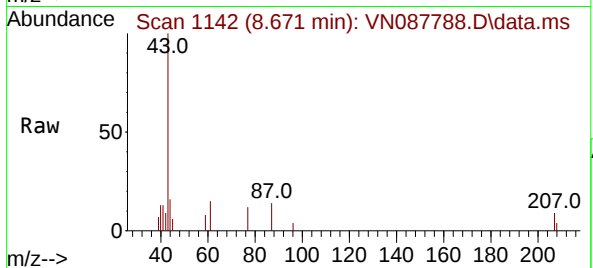




#43
Isopropyl Acetate
Concen: 1.693 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

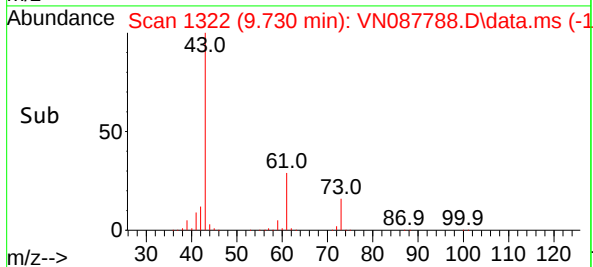
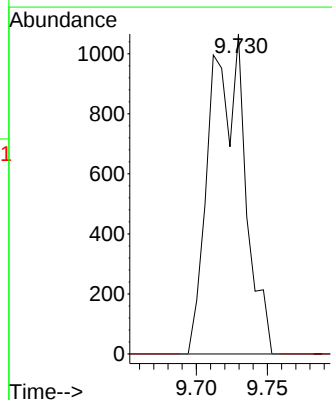
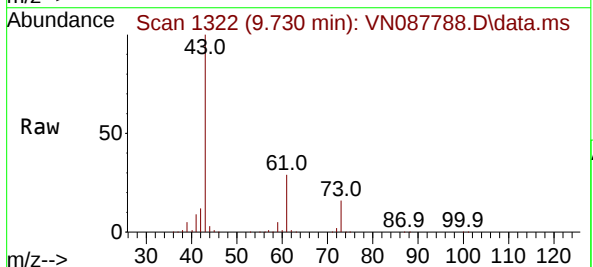
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

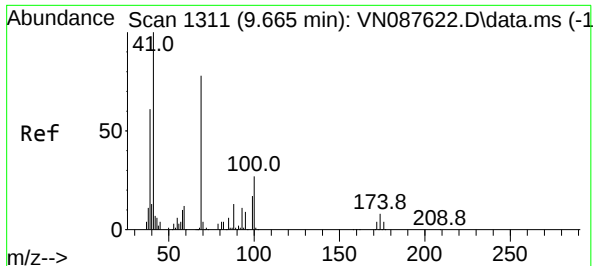
Tgt Ion: 43 Resp: 16673
Ion Ratio Lower Upper
43 100
61 18.6 18.8 28.2#
87 10.4 9.6 14.4



#45
1,2-Dichloropropane
Concen: 0.497 ug/l
RT: 9.730 min Scan# 1322
Delta R.T. 0.129 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 63 Resp: 1856
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 31.215 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087788.D

Acq: 10 Sep 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB169608TB

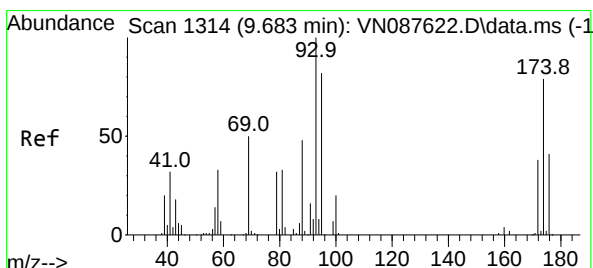
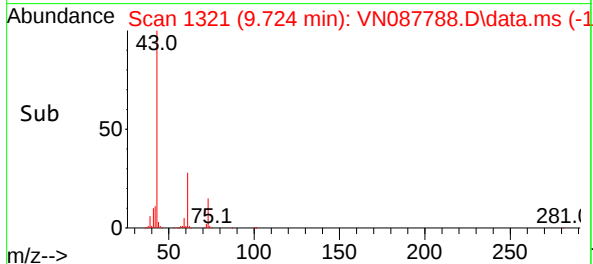
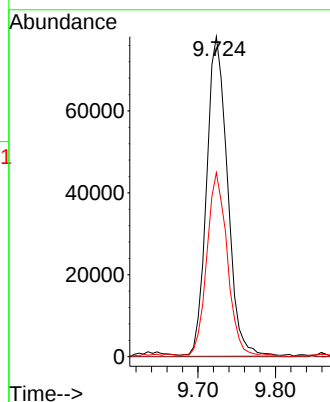
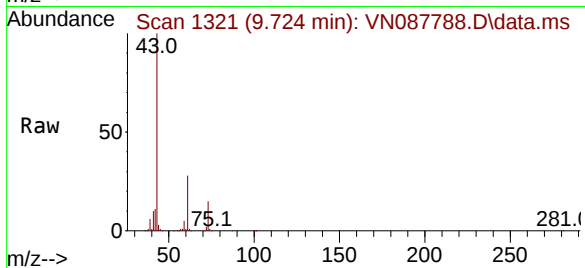
Tgt Ion: 41 Resp: 145409

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 57.4 52.9 79.3



#49

1,4-Dioxane

Concen: 1.060 ug/l

RT: 9.730 min Scan# 1322

Delta R.T. 0.047 min

Lab File: VN087788.D

Acq: 10 Sep 2025 17:53

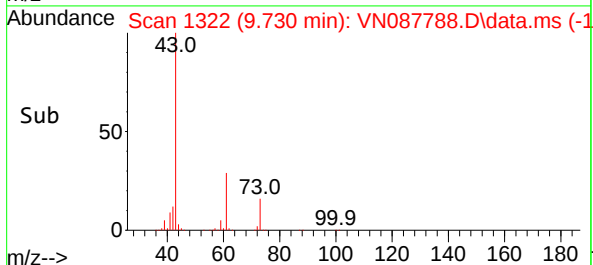
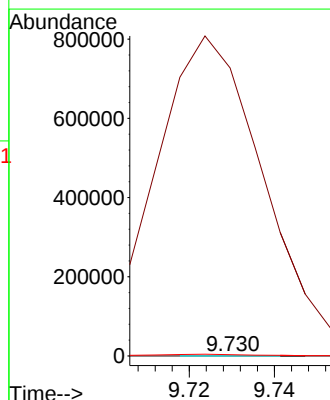
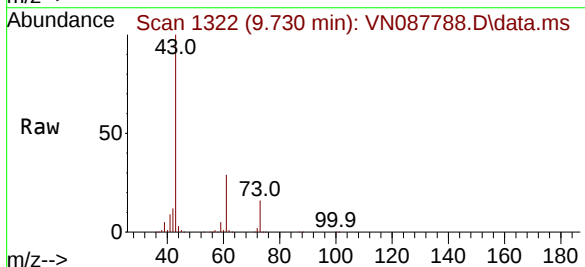
Tgt Ion: 88 Resp: 64

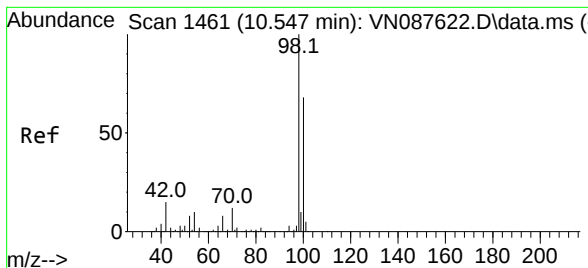
Ion Ratio Lower Upper

88 100

43 2332250.0 0.0 0.0#

58 12340.6 57.9 86.9#

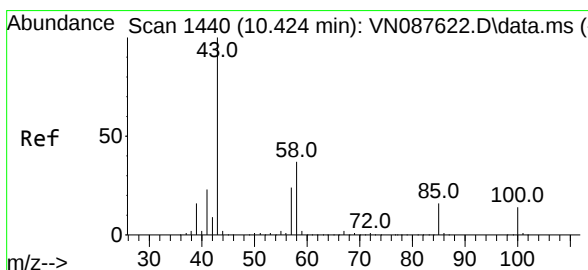
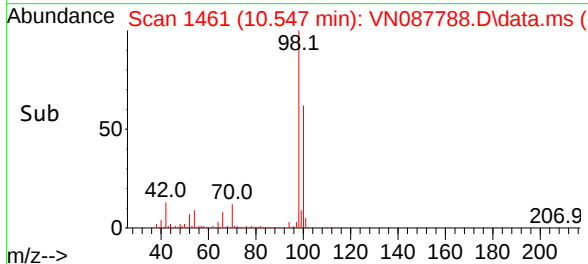
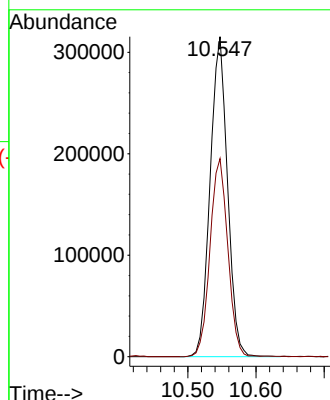
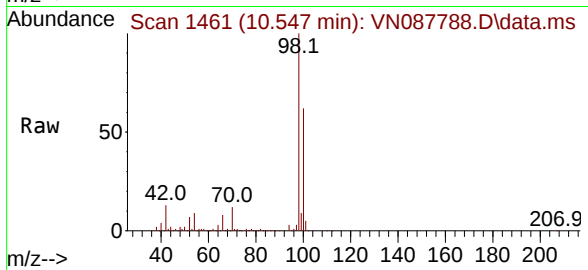




#50
Toluene-d8
Concen: 49.594 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

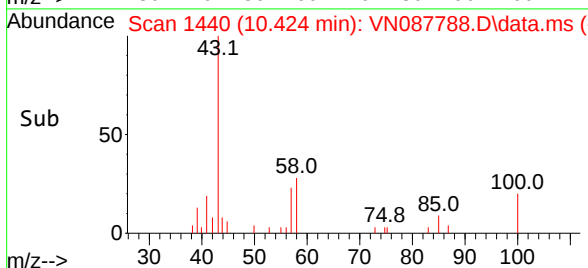
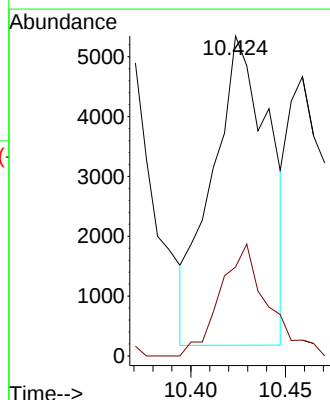
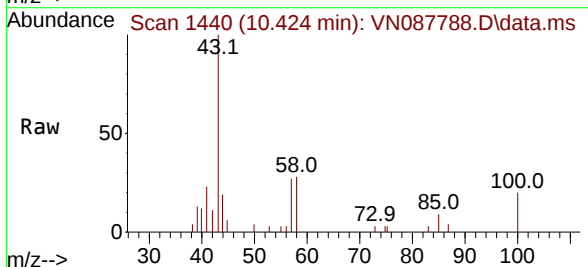
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

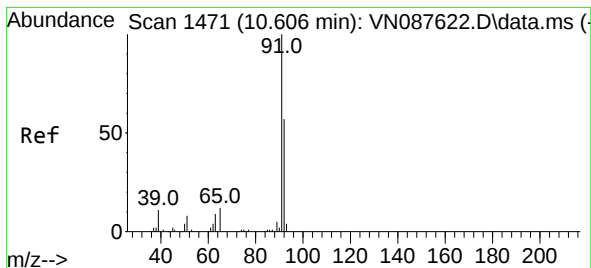
Tgt Ion: 98 Resp: 558526
Ion Ratio Lower Upper
98 100
100 63.6 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.816 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 43 Resp: 10790
Ion Ratio Lower Upper
43 100
58 30.2 29.6 44.4





#52

Toluene

Concen: 0.210 ug/l

RT: 10.606 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VN087788.D

Acq: 10 Sep 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

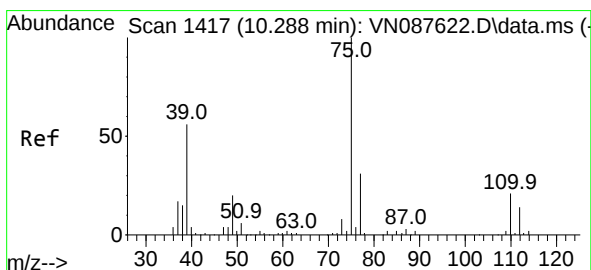
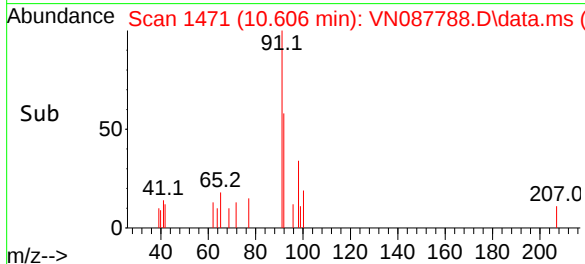
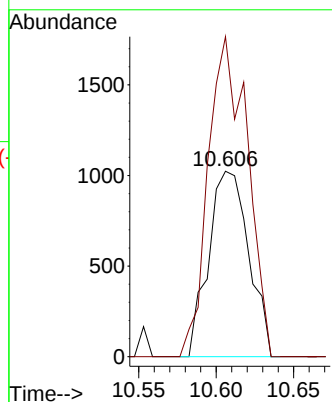
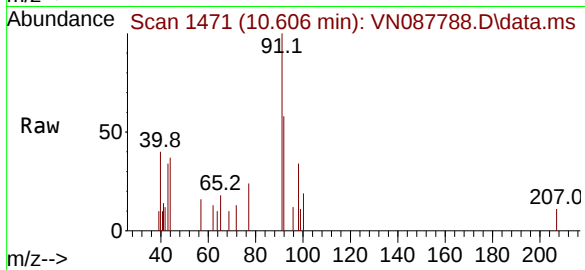
PB169608TB

Tgt Ion: 92 Resp: 1845

Ion Ratio Lower Upper

92 100

91 168.4 140.4 210.6



#54

cis-1,3-Dichloropropene

Concen: 12.244 ug/l

RT: 10.341 min Scan# 1426

Delta R.T. 0.053 min

Lab File: VN087788.D

Acq: 10 Sep 2025 17:53

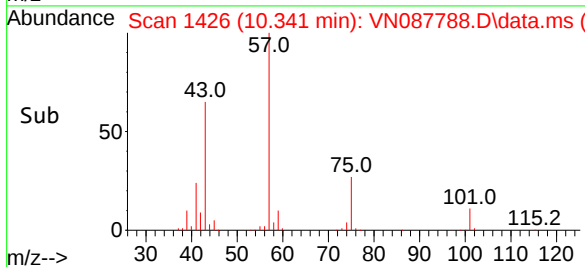
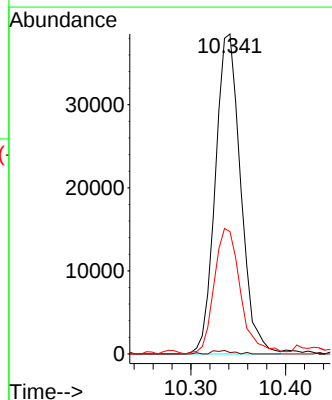
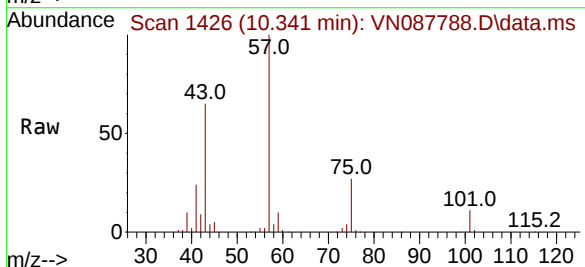
Tgt Ion: 75 Resp: 71623

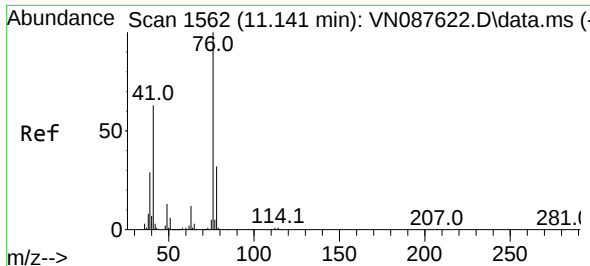
Ion Ratio Lower Upper

75 100

77 0.5 24.6 37.0#

39 37.8 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.683 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087788.D

Acq: 10 Sep 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

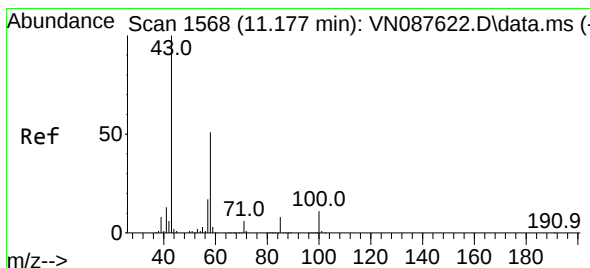
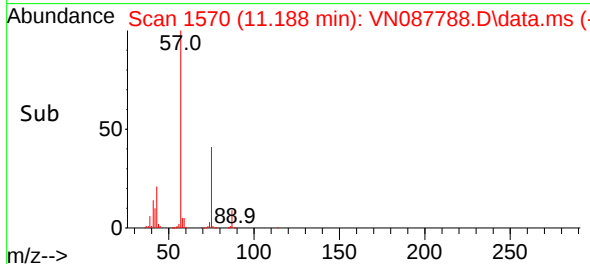
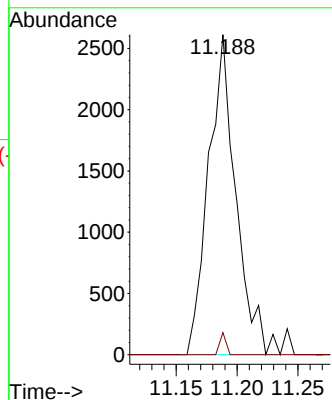
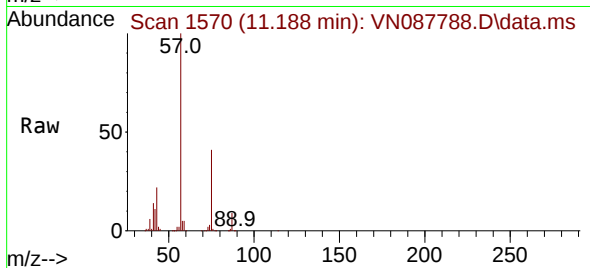
PB169608TB

Tgt Ion: 76 Resp: 4103

Ion Ratio Lower Upper

76 100

78 1.6 26.2 39.4#



#59

2-Hexanone

Concen: 23.057 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN087788.D

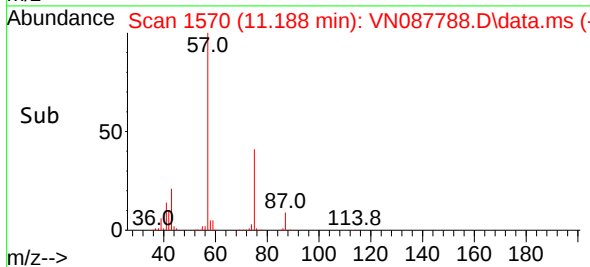
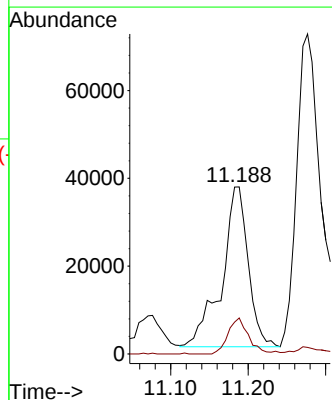
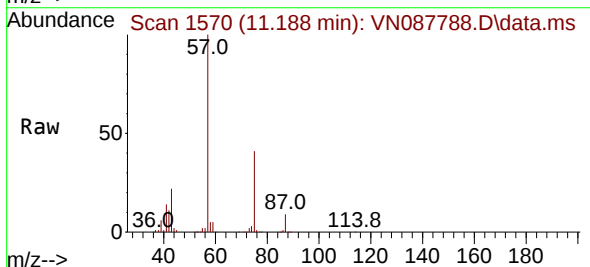
Acq: 10 Sep 2025 17:53

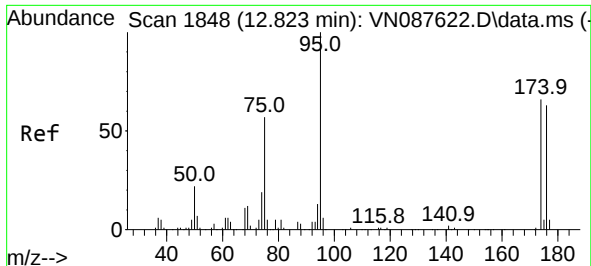
Tgt Ion: 43 Resp: 86586

Ion Ratio Lower Upper

43 100

58 17.3 25.9 77.8#

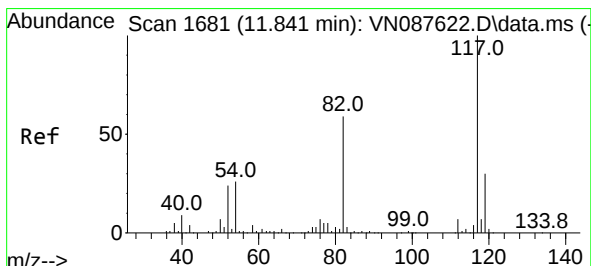
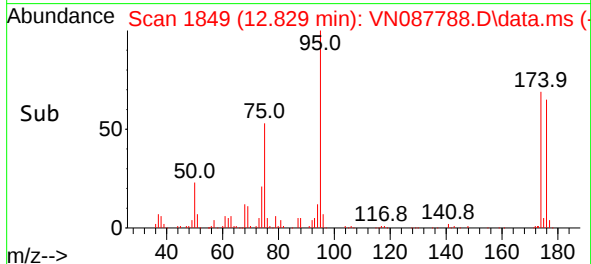
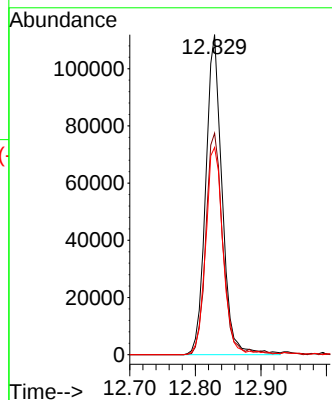
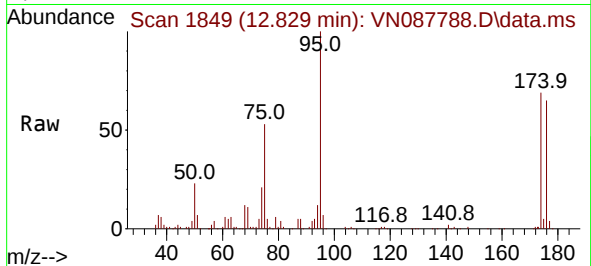




#62
4-Bromofluorobenzene
Concen: 48.540 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

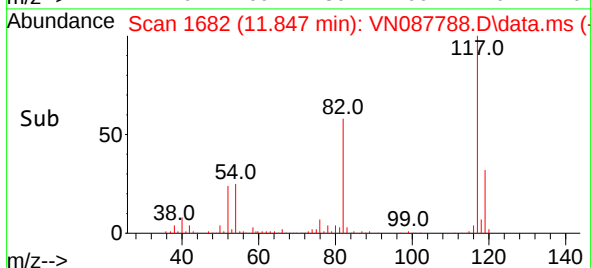
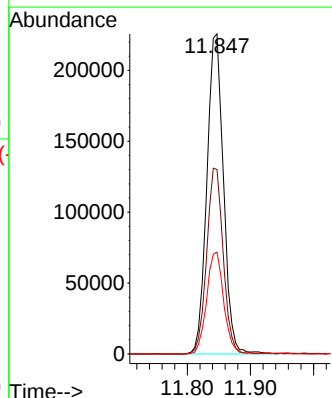
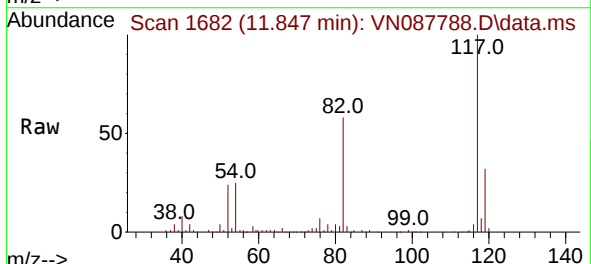
Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

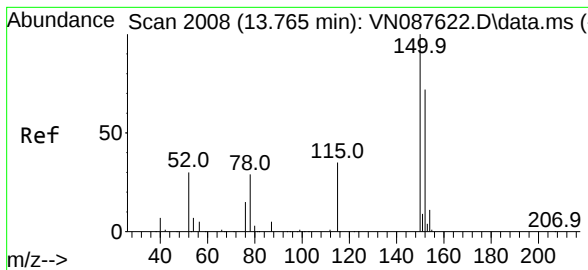
Tgt Ion: 95 Resp: 194410
Ion Ratio Lower Upper
95 100
174 71.8 0.0 138.4
176 69.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion: 117 Resp: 411964
Ion Ratio Lower Upper
117 100
82 57.6 47.4 71.2
119 31.8 24.3 36.5

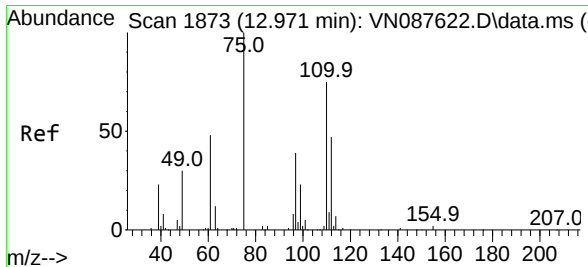
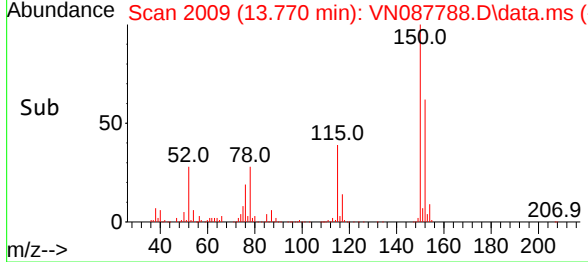
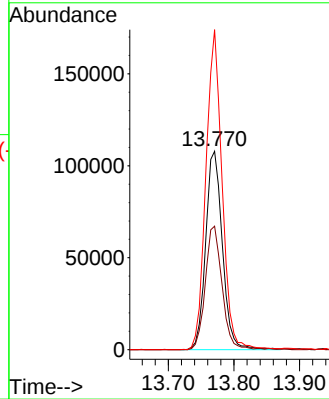
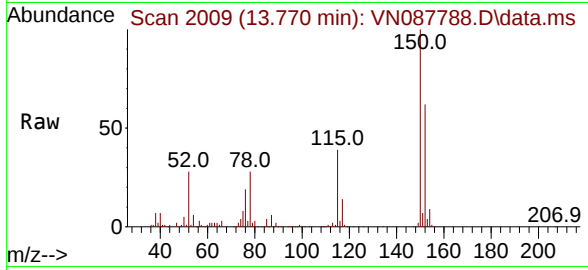




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN087788.D
 Acq: 10 Sep 2025 17:53

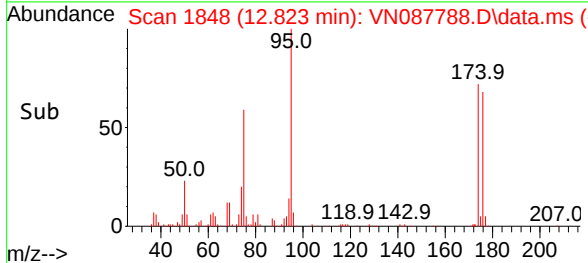
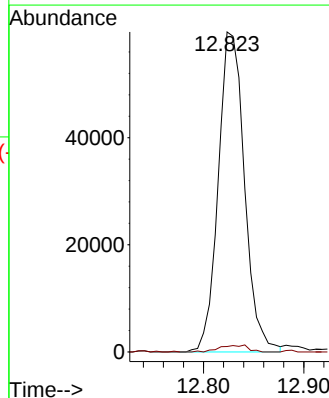
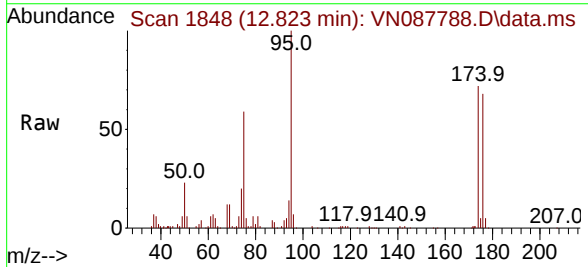
Instrument :
 MSVOA_N
 ClientSampleId :
 PB169608TB

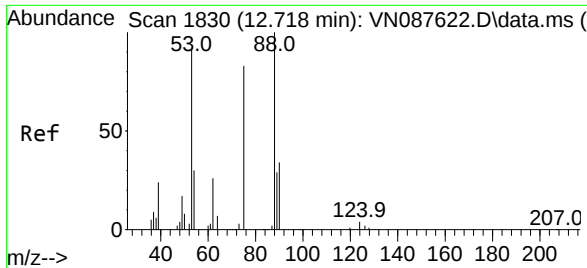
Tgt Ion:152 Resp: 192306
 Ion Ratio Lower Upper
 152 100
 115 62.0 32.3 96.8
 150 155.7 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 24.042 ug/l
 RT: 12.823 min Scan# 1848
 Delta R.T. -0.147 min
 Lab File: VN087788.D
 Acq: 10 Sep 2025 17:53

Tgt Ion: 75 Resp: 108423
 Ion Ratio Lower Upper
 75 100
 77 2.3 89.1 267.4#

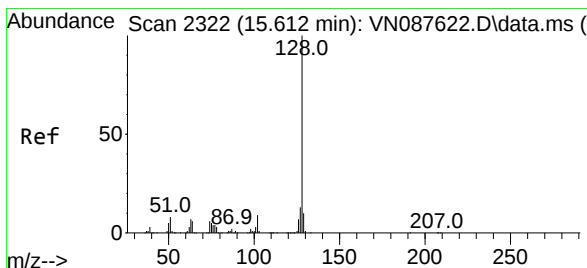
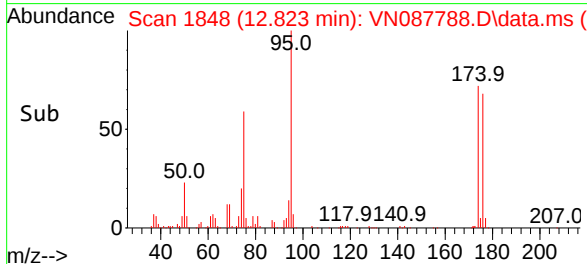
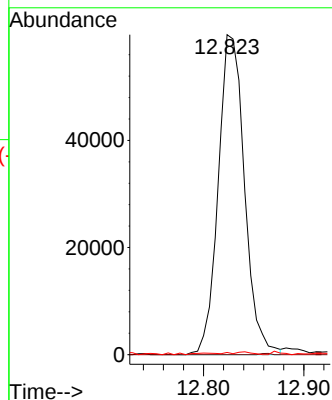
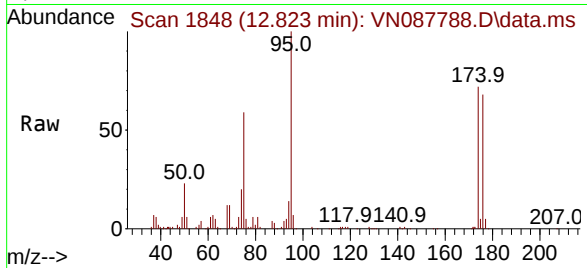




#81
trans-1,4-Dichloro-2-butene
Concen: 63.649 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Instrument :
MSVOA_N
ClientSampleId :
PB169608TB

Tgt Ion: 75 Resp: 108423
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.7 35.6 53.4#



#95
Naphthalene
Concen: 0.877 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN087788.D
Acq: 10 Sep 2025 17:53

Tgt Ion:128 Resp: 12766
Ion Ratio Lower Upper
128 100
127 17.3 10.6 15.8#
129 8.7 8.6 12.8

