

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088502.D
 Acq On : 10 Dec 2025 15:50
 Operator : JC\MD
 Sample : Q3814-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:10:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

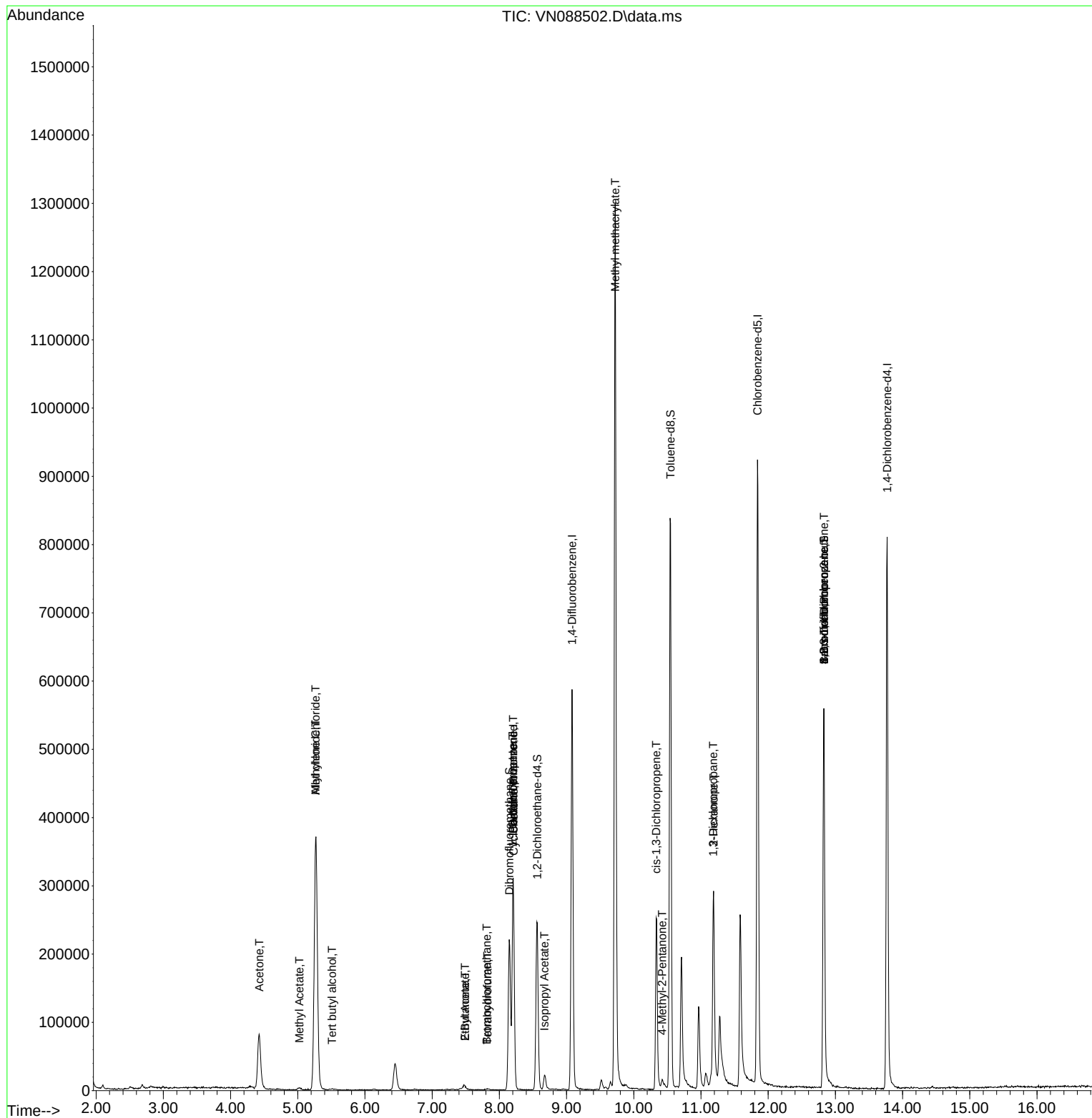
Internal Standards						
1) Pentafluorobenzene	8.206	168	193875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	449020	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	489656	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	212090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	215256	58.938	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.880%			
35) Dibromofluoromethane	8.147	113	154015	49.496	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.000%			
50) Toluene-d8	10.547	98	552252	47.699	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.400%			
62) 4-Bromofluorobenzene	12.829	95	197806	49.793	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.580%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.512	59	2107	3.613	ug/l #	72
14) Allyl chloride	5.265	41	9994	2.280	ug/l #	19
16) Acetone	4.430	43	165069	124.973	ug/l	99
18) Methyl Acetate	5.024	43	6690	1.702	ug/l #	81
20) Methylene Chloride	5.265	84	278826	98.667	ug/l	95
25) 2-Butanone	7.488	43	14066	6.624	ug/l #	86
28) Bromochloromethane	7.812	49	687	0.260	ug/l #	75
29) Tetrahydrofuran	7.824	42	315	0.207	ug/l #	83
31) Cyclohexane	8.212	56	6580	1.370	ug/l #	53
36) 1,1-Dichloropropene	8.200	75	22179	4.618	ug/l #	51
37) Ethyl Acetate	7.488	43	14066	2.228	ug/l #	72
38) Carbon Tetrachloride	8.206	117	23400	4.895	ug/l #	18
43) Isopropyl Acetate	8.671	43	28926	2.998	ug/l #	89
48) Methyl methacrylate	9.724	41	131841	29.950	ug/l #	48
51) 4-Methyl-2-Pentanone	10.423	43	13988	2.460	ug/l #	84
54) cis-1,3-Dichloropropene	10.335	75	41922	7.386	ug/l #	71
57) 1,3-Dichloropropane	11.182	76	3173	0.559	ug/l #	45
59) 2-Hexanone	11.188	43	63418	17.703	ug/l #	54
71) Bromoform	12.829	173	1983	0.730	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	121357	24.430	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	121357	69.307	ug/l #	1

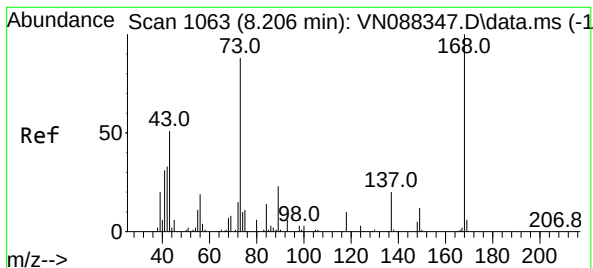
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

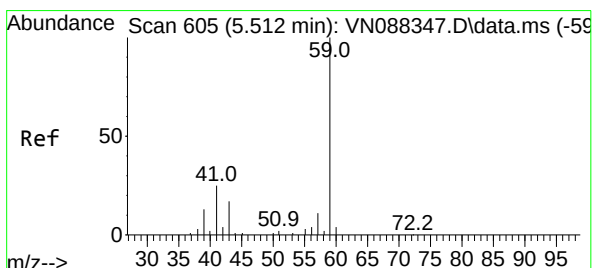
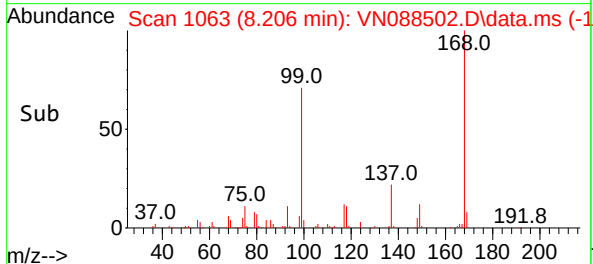
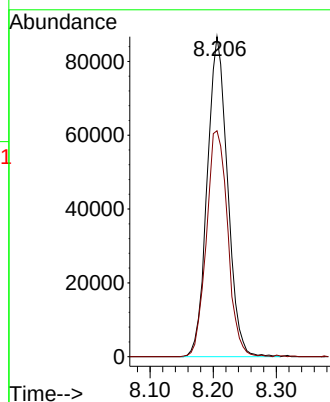
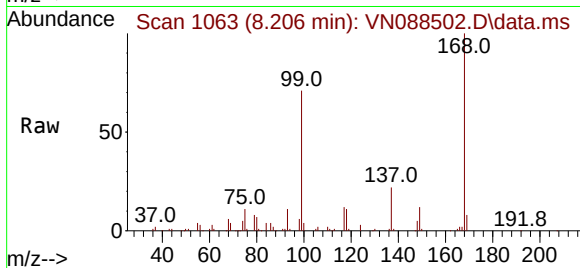




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

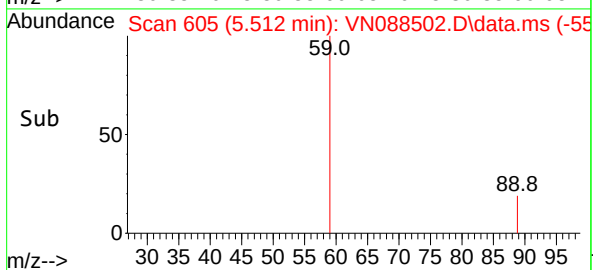
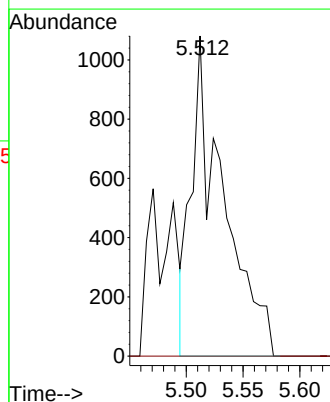
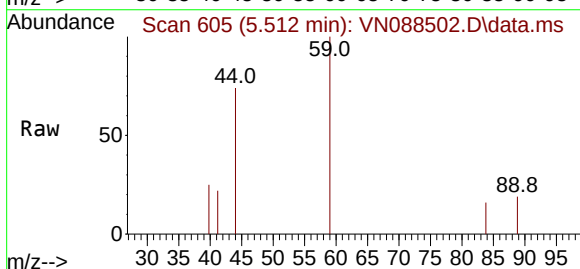
Instrument :
MSVOA_N
ClientSampleId :

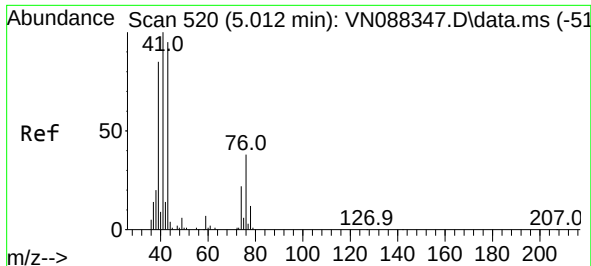
Tgt Ion:168 Resp: 193875
Ion Ratio Lower Upper
168 100
99 70.6 57.1 85.7



#11
Tert butyl alcohol
Concen: 3.613 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

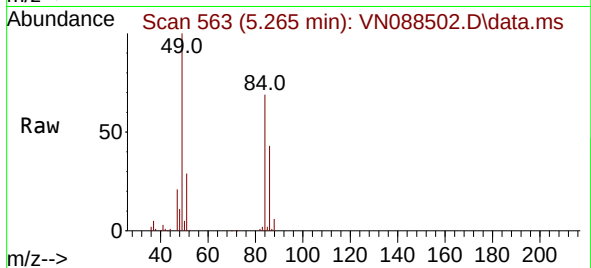
Tgt Ion: 59 Resp: 2107
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



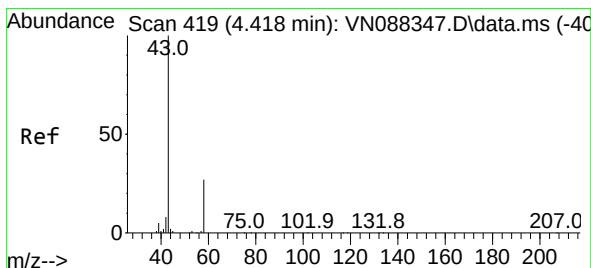
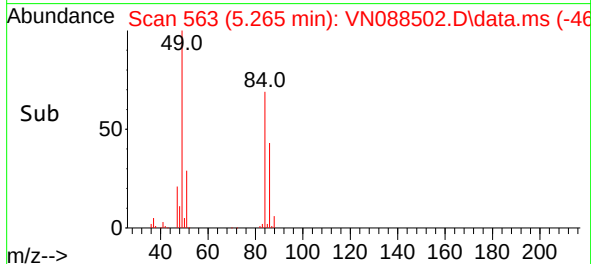
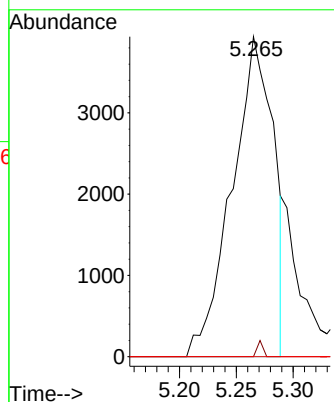


#14
Allyl chloride
Concen: 2.280 ug/l
RT: 5.265 min Scan# 50
Delta R.T. 0.253 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Instrument :
MSVOA_N
ClientSampleId :

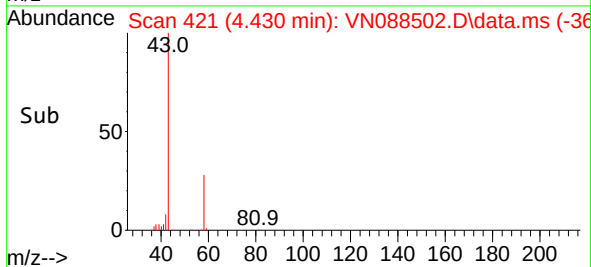
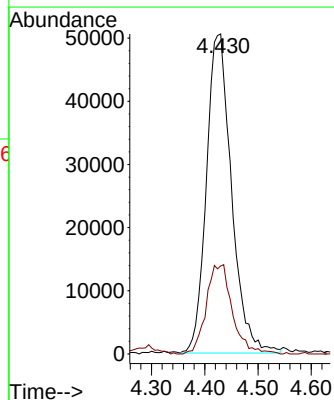
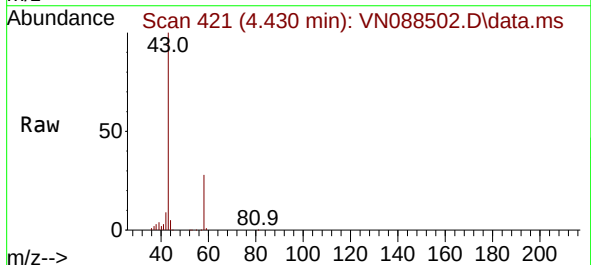


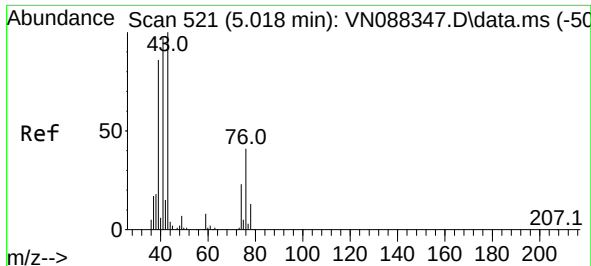
Tgt Ion: 41 Resp: 9994
Ion Ratio Lower Upper
41 100
39 0.7 64.7 97.1#
76 0.0 29.1 43.7#



#16
Acetone
Concen: 124.973 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

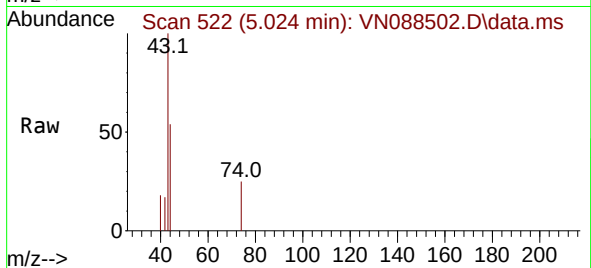
Tgt Ion: 43 Resp: 165069
Ion Ratio Lower Upper
43 100
58 27.6 21.7 32.5



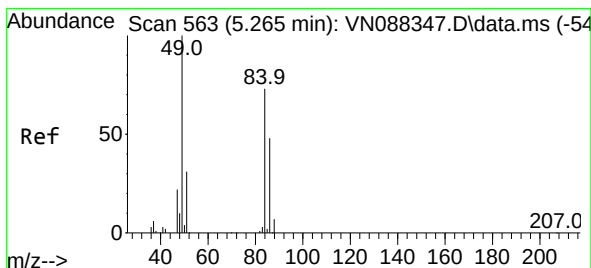
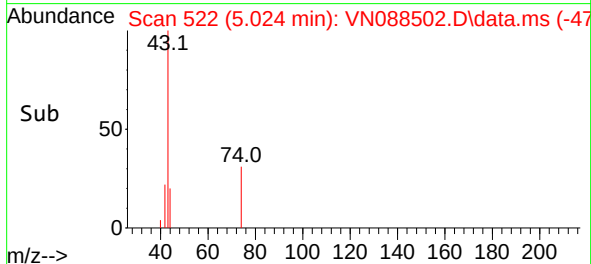
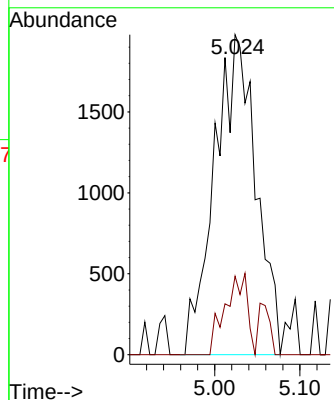


#18
Methyl Acetate
Concen: 1.702 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Instrument :
MSVOA_N
ClientSampleId :

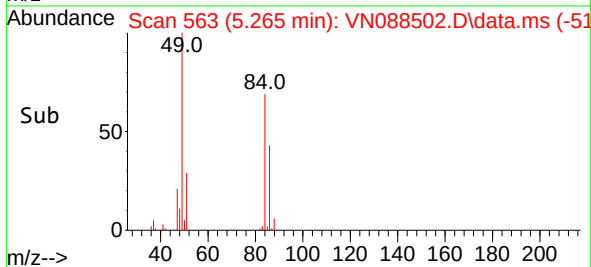
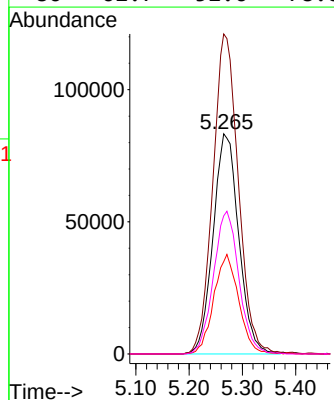
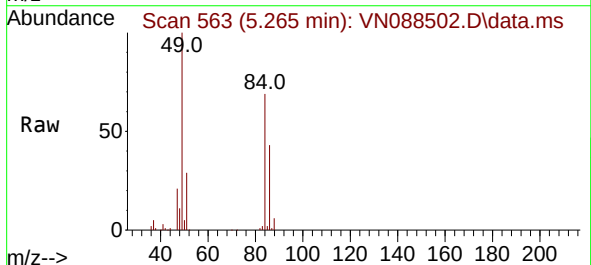


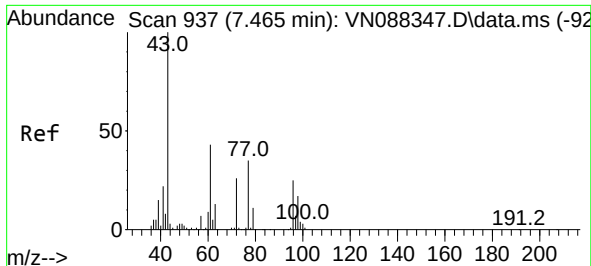
Tgt Ion: 43 Resp: 6690
Ion Ratio Lower Upper
43 100
74 13.5 17.9 26.9#



#20
Methylene Chloride
Concen: 98.667 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Tgt Ion: 84 Resp: 278826
Ion Ratio Lower Upper
84 100
49 145.4 110.2 165.2
51 41.9 34.1 51.1
86 62.7 52.6 78.8

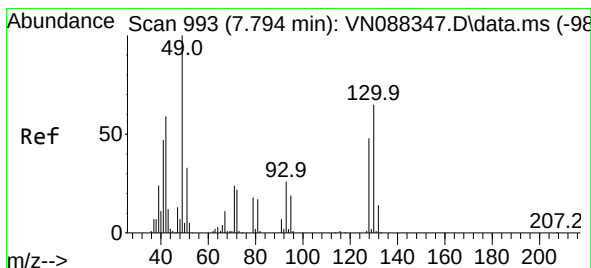
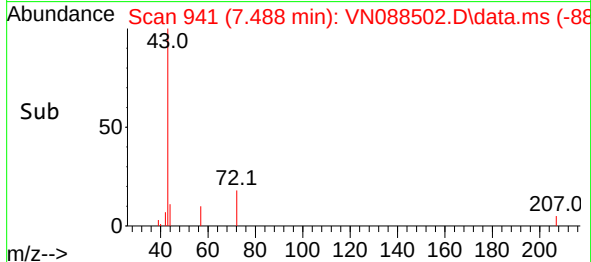
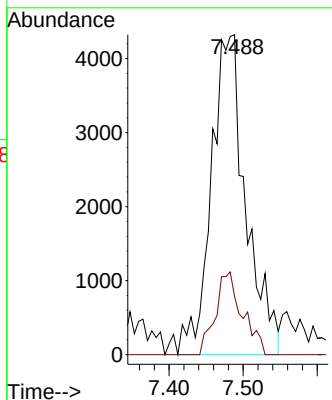
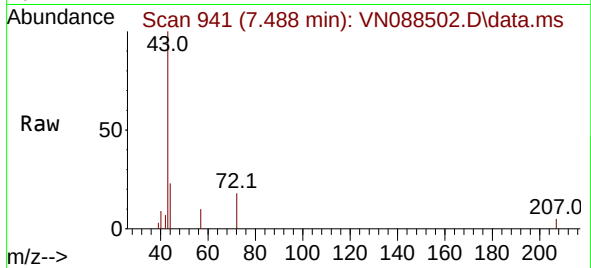




#25
2-Butanone
Concen: 6.624 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.024 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

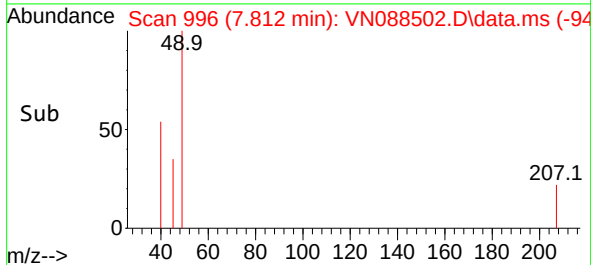
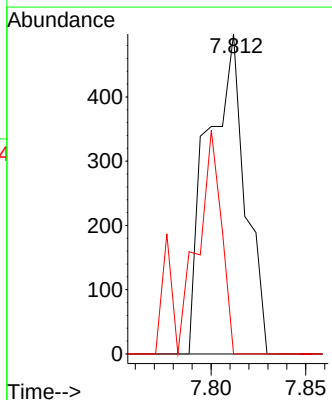
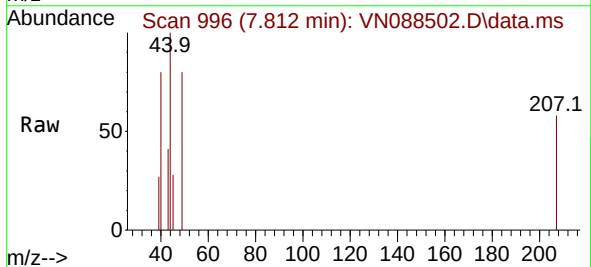
Instrument :
MSVOA_N
ClientSampleId :

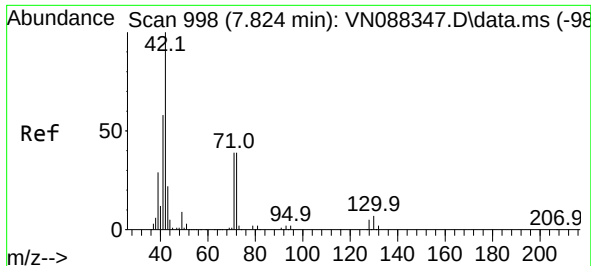
Tgt Ion: 43 Resp: 14066
Ion Ratio Lower Upper
43 100
72 18.3 20.5 30.7#



#28
Bromochloromethane
Concen: 0.260 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.018 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

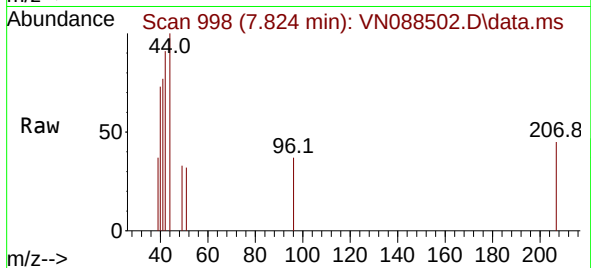
Tgt Ion: 49 Resp: 687
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 43.7 51.1 76.7#



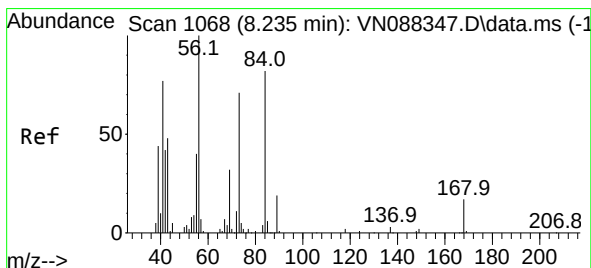
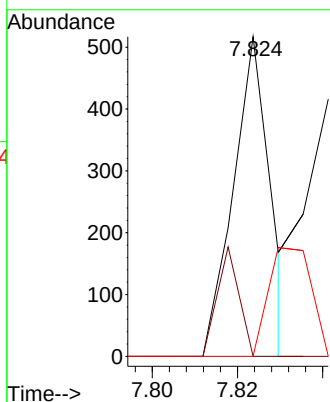
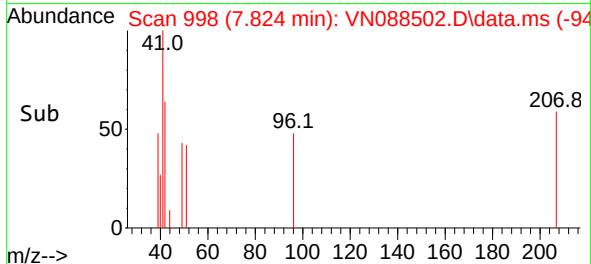


#29
Tetrahydrofuran
Concen: 0.207 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.000 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

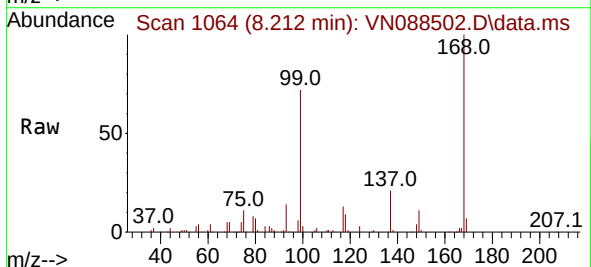
Instrument :
MSVOA_N
ClientSampleId :



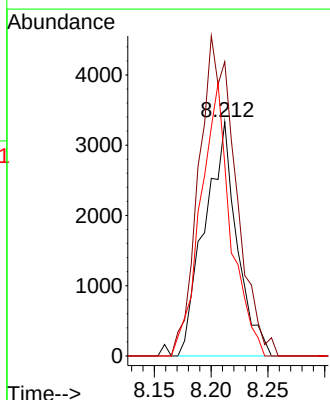
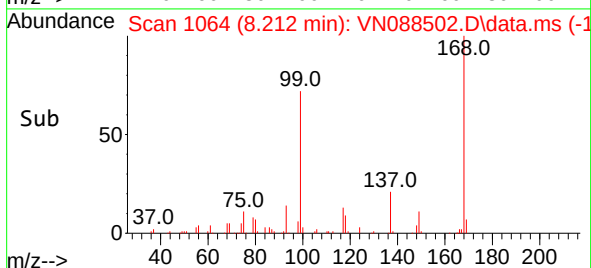
Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
72 19.7 32.2 48.4#
71 38.7 31.1 46.7

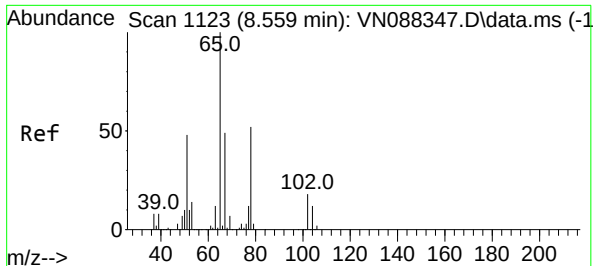


#31
Cyclohexane
Concen: 1.370 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.023 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50



Tgt Ion: 56 Resp: 6580
Ion Ratio Lower Upper
56 100
69 125.7 25.3 37.9#
84 81.9 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 58.938 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN088502.D

Acq: 10 Dec 2025 15:50

Instrument :

MSVOA_N

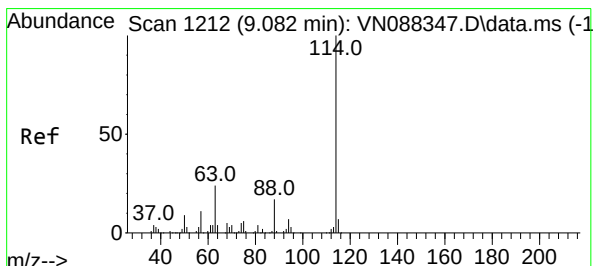
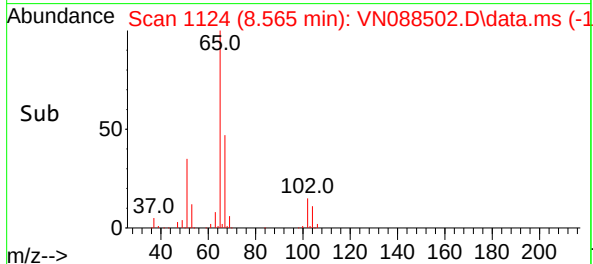
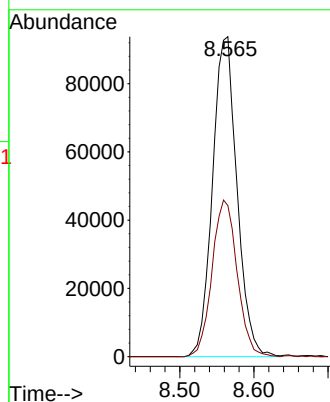
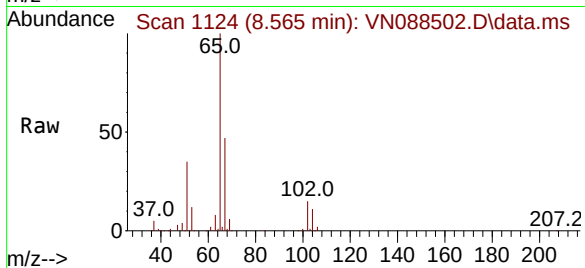
ClientSampleId :

Tgt Ion: 65 Resp: 215256

Ion Ratio Lower Upper

65 100

67 50.2 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088502.D

Acq: 10 Dec 2025 15:50

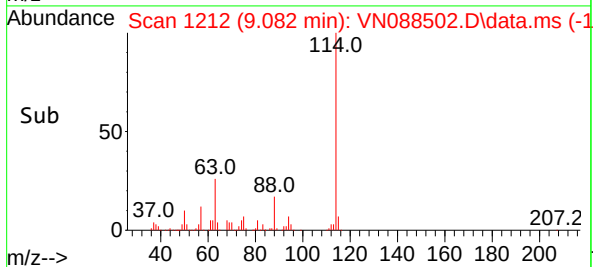
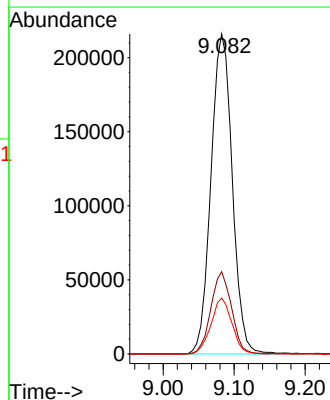
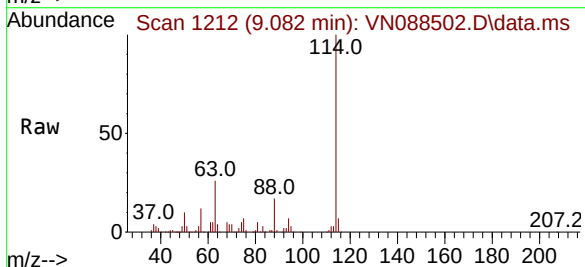
Tgt Ion: 114 Resp: 449020

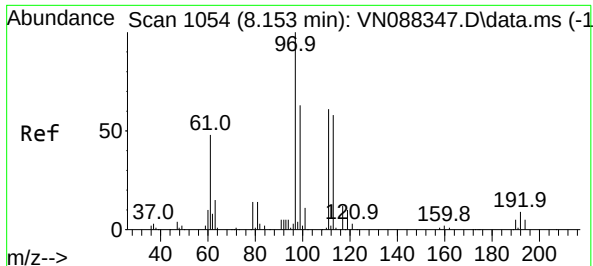
Ion Ratio Lower Upper

114 100

63 25.7 0.0 49.0

88 17.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 49.496 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088502.D

Acq: 10 Dec 2025 15:50

Instrument :

MSVOA_N

ClientSampleId :

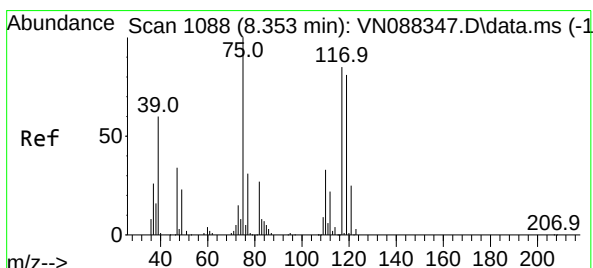
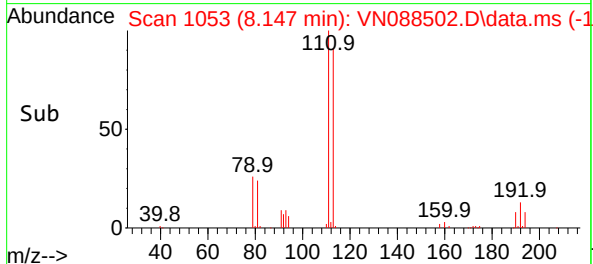
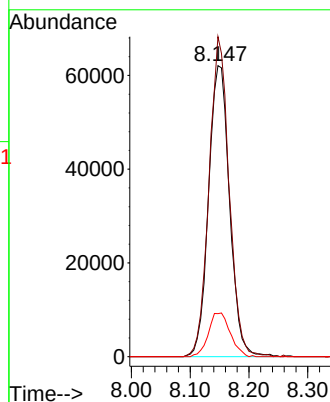
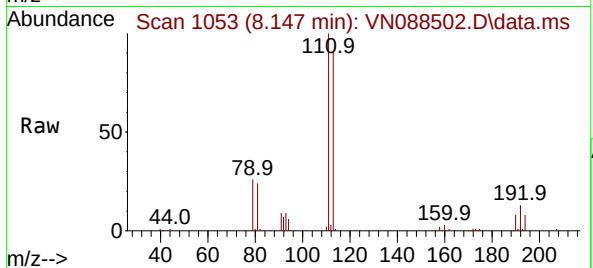
Tgt Ion:113 Resp: 154015

Ion Ratio Lower Upper

113 100

111 105.2 82.5 123.7

192 15.7 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.618 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088502.D

Acq: 10 Dec 2025 15:50

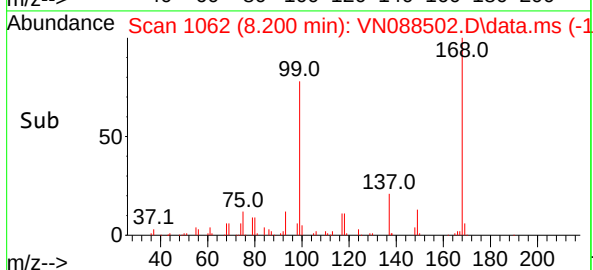
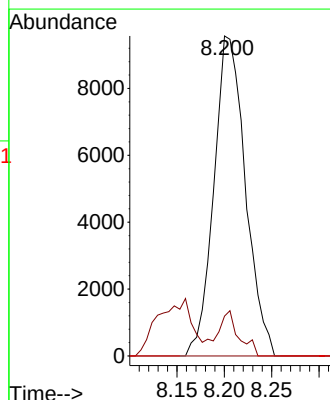
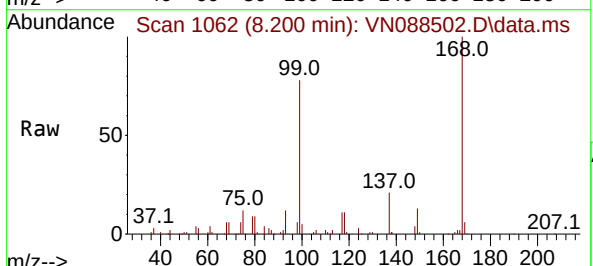
Tgt Ion: 75 Resp: 22179

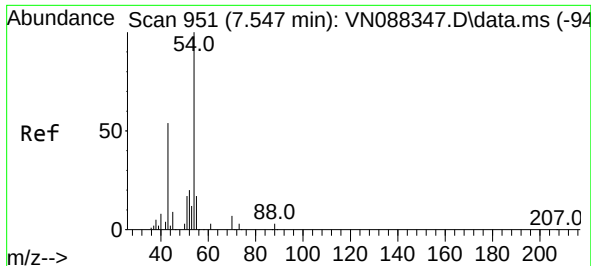
Ion Ratio Lower Upper

75 100

110 8.3 15.8 47.4#

77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 2.228 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.059 min

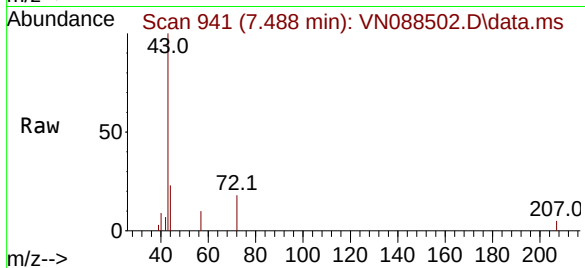
Lab File: VN088502.D

Acq: 10 Dec 2025 15:50

Instrument :

MSVOA_N

ClientSampleId :



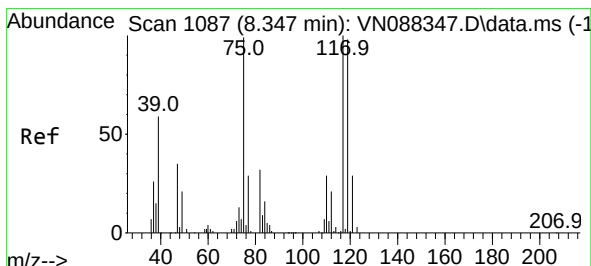
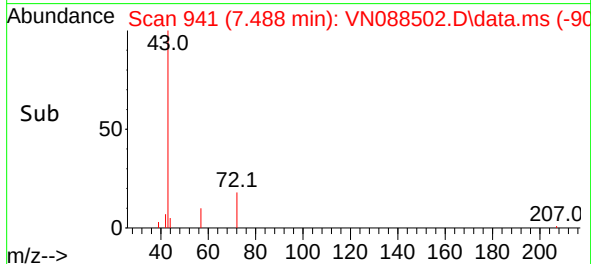
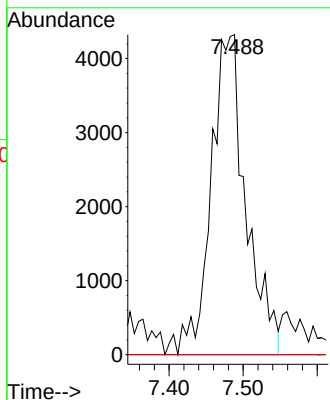
Tgt Ion: 43 Resp: 14066

Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.895 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088502.D

Acq: 10 Dec 2025 15:50

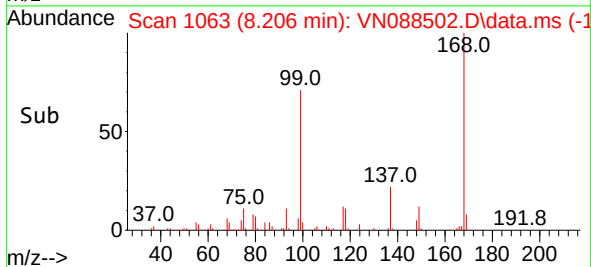
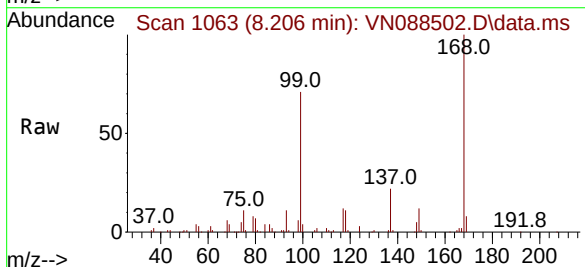
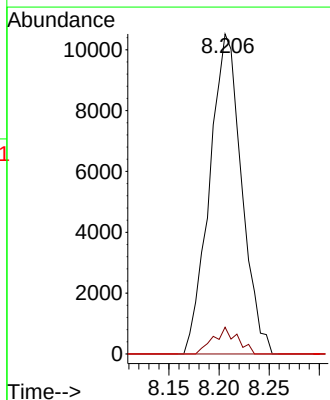
Tgt Ion: 117 Resp: 23400

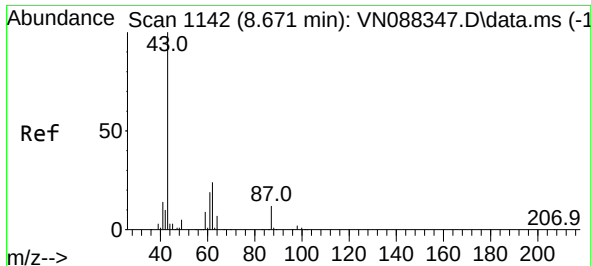
Ion Ratio Lower Upper

117 100

119 8.3 78.2 117.4#

121 0.0 23.4 35.2#

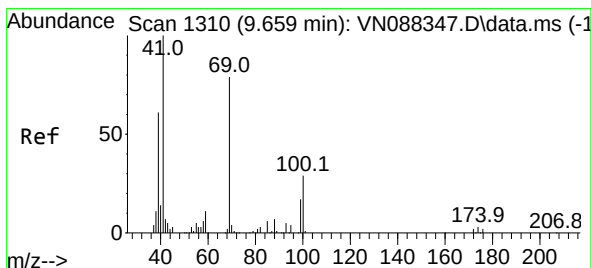
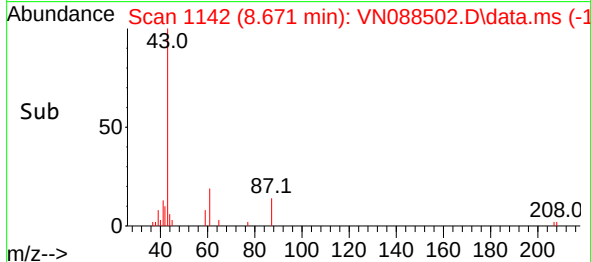
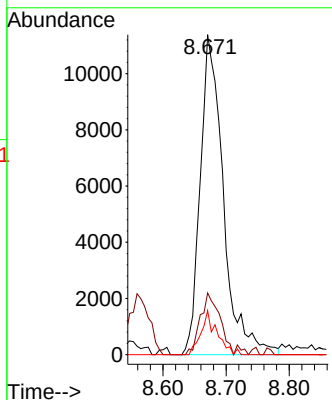
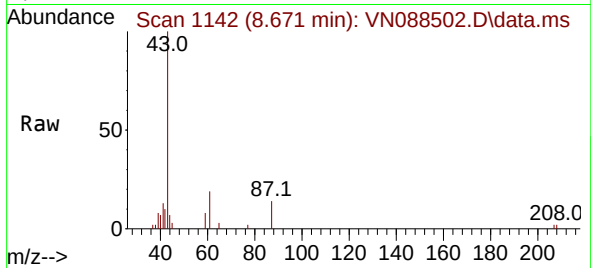




#43
Isopropyl Acetate
Concen: 2.998 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

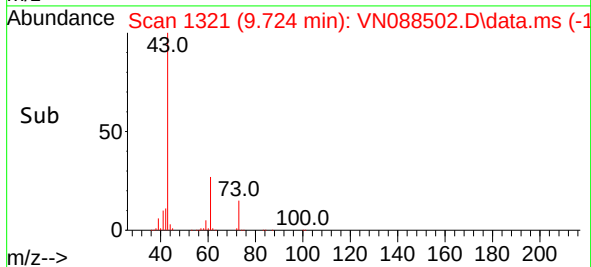
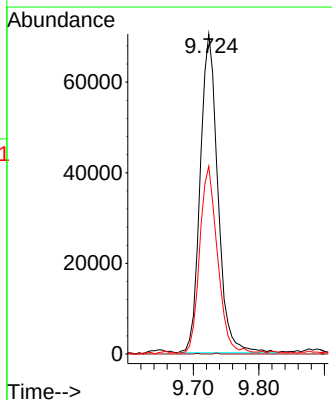
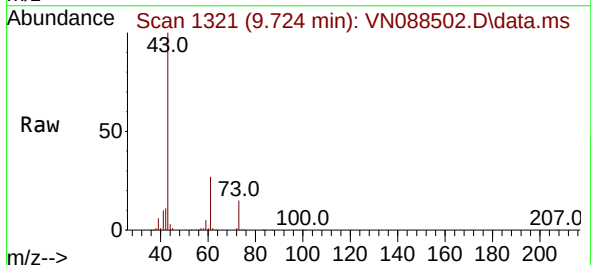
Instrument :
MSVOA_N
ClientSampleId :

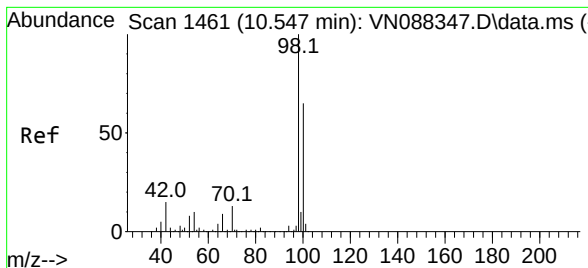
Tgt Ion: 43 Resp: 28926
Ion Ratio Lower Upper
43 100
61 16.3 18.7 28.1#
87 9.5 9.1 13.7



#48
Methyl methacrylate
Concen: 29.950 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.065 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Tgt Ion: 41 Resp: 131841
Ion Ratio Lower Upper
41 100
69 0.1 62.4 93.6#
39 59.1 52.6 79.0

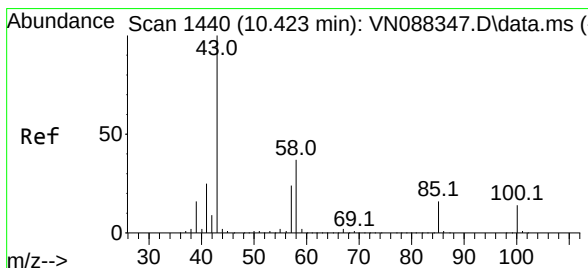
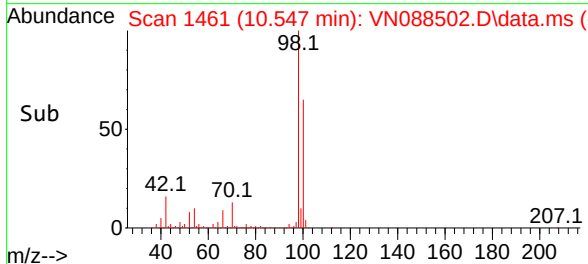
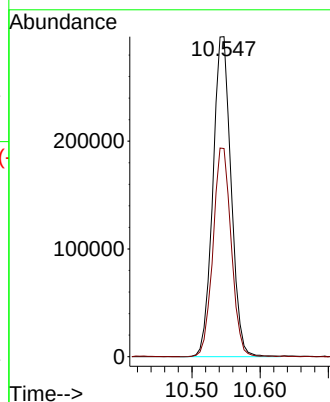
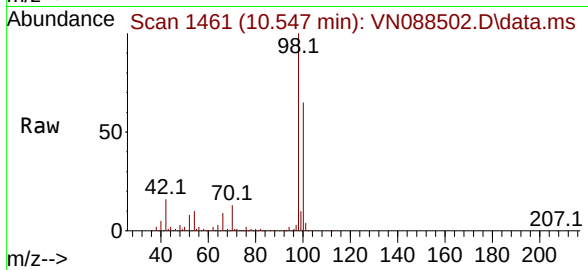




#50
Toluene-d8
Concen: 47.699 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

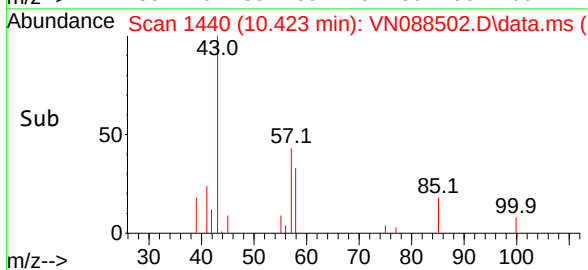
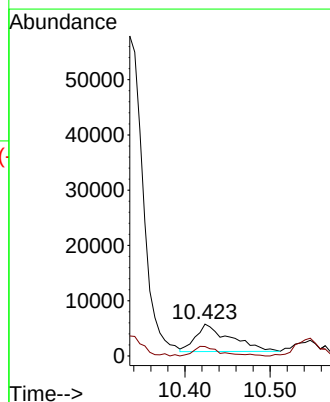
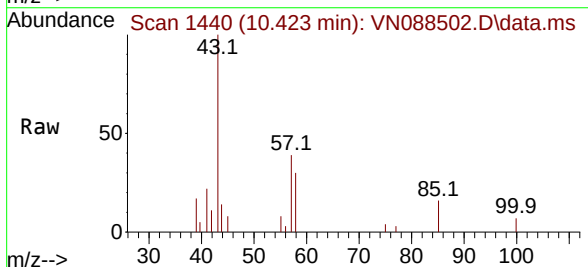
Instrument :
MSVOA_N
ClientSampleId :

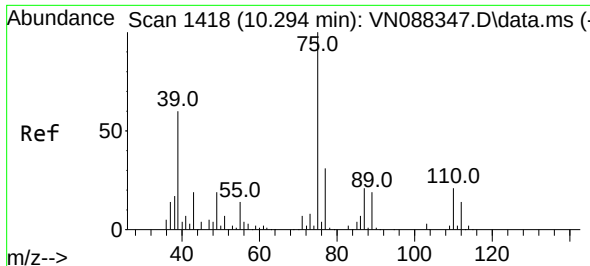
Tgt Ion: 98 Resp: 552252
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 2.460 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Tgt Ion: 43 Resp: 13988
Ion Ratio Lower Upper
43 100
58 26.9 29.1 43.7#

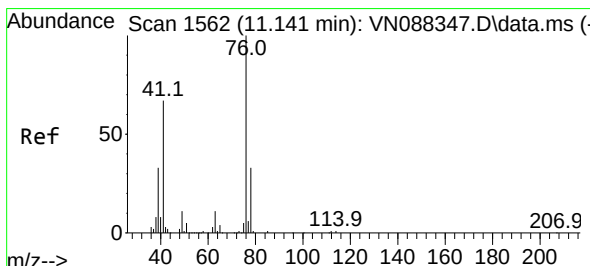
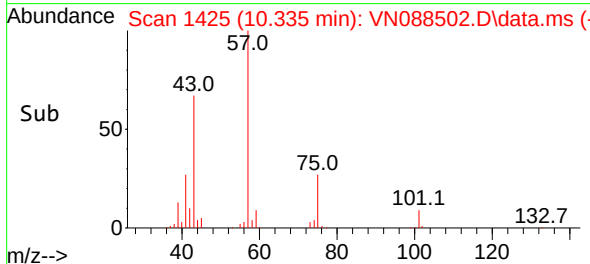
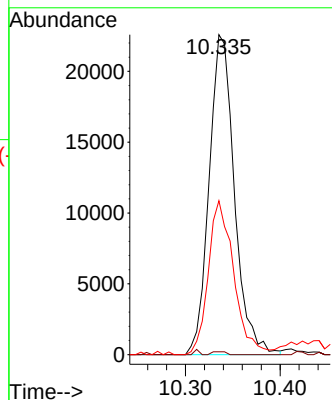
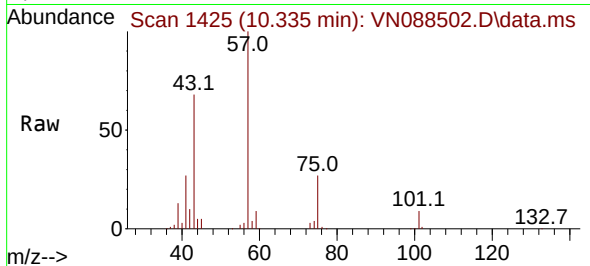




#54
 cis-1,3-Dichloropropene
 Concen: 7.386 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN088502.D
 Acq: 10 Dec 2025 15:50

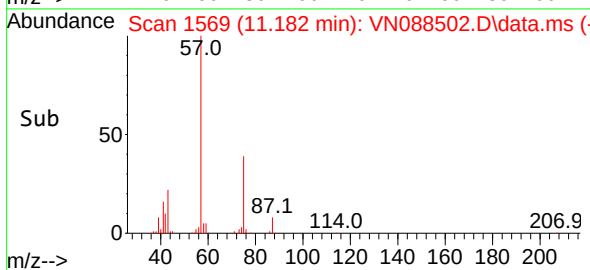
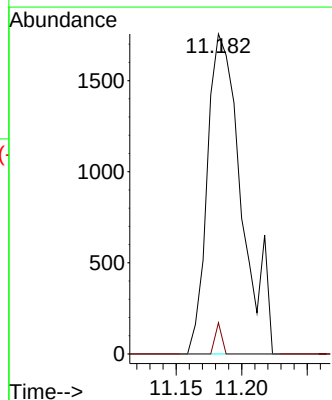
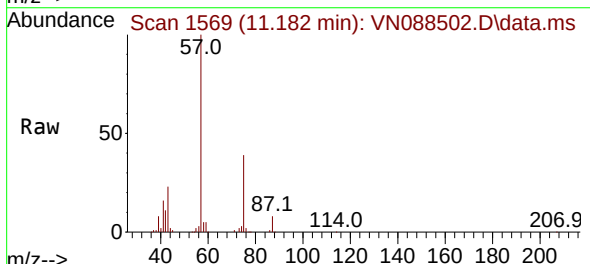
Instrument :
 MSVOA_N
 ClientSampleId :

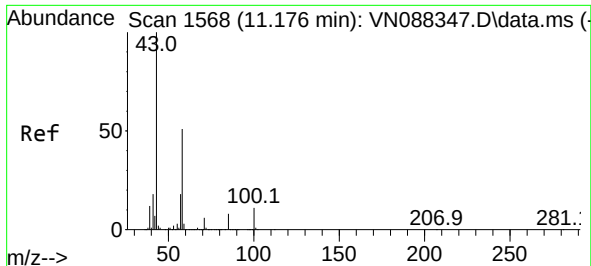
Tgt Ion: 75 Resp: 41922
 Ion Ratio Lower Upper
 75 100
 77 0.9 24.5 36.7#
 39 48.1 48.3 72.5#



#57
 1,3-Dichloropropane
 Concen: 0.559 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN088502.D
 Acq: 10 Dec 2025 15:50

Tgt Ion: 76 Resp: 3173
 Ion Ratio Lower Upper
 76 100
 78 1.9 26.2 39.4#

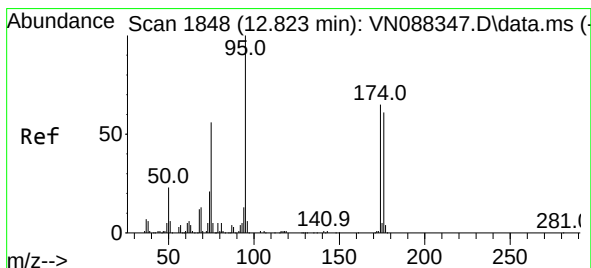
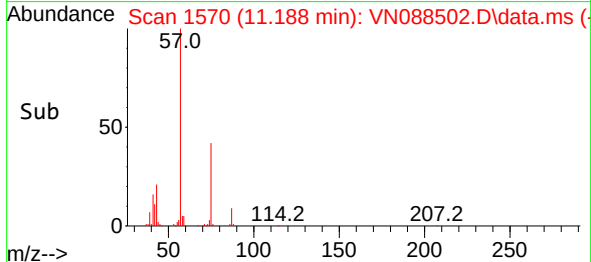
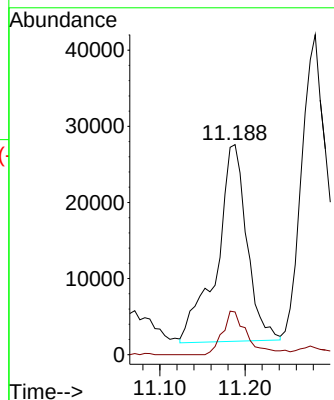
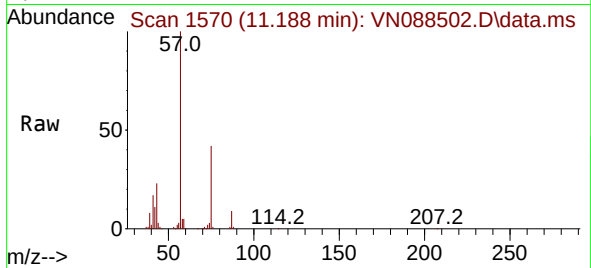




#59
2-Hexanone
Concen: 17.703 ug/l
RT: 11.188 min Scan# 1118
Delta R.T. 0.012 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

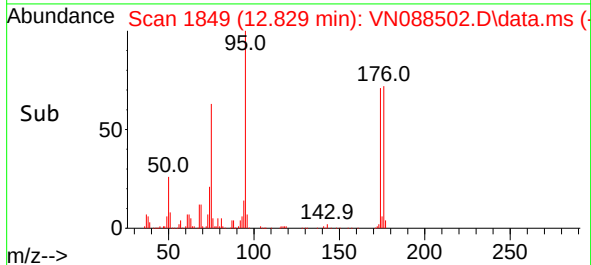
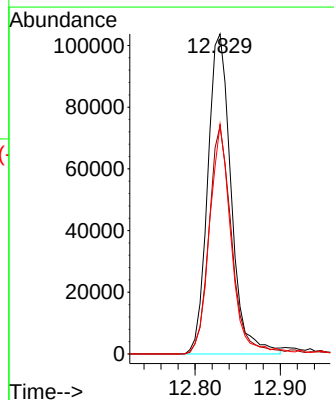
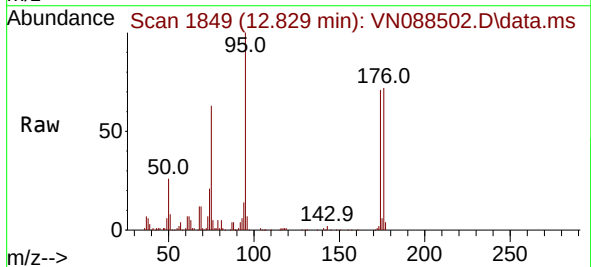
Instrument :
MSVOA_N
ClientSampleId :

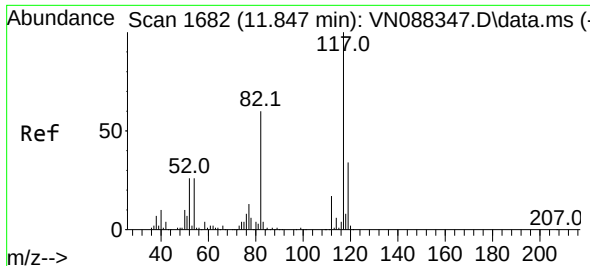
Tgt Ion: 43 Resp: 63418
Ion Ratio Lower Upper
43 100
58 18.4 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 49.793 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

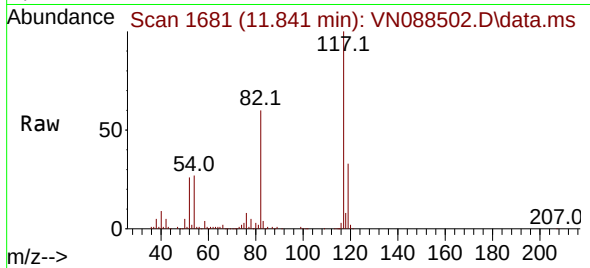
Tgt Ion: 95 Resp: 197806
Ion Ratio Lower Upper
95 100
174 69.0 0.0 139.0
176 66.6 0.0 132.4



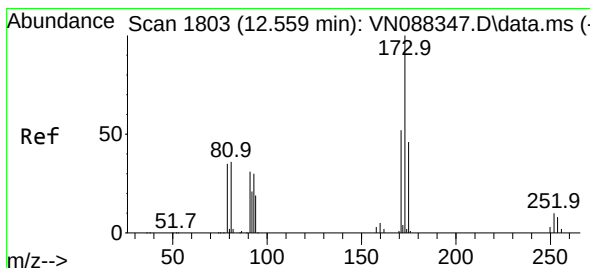
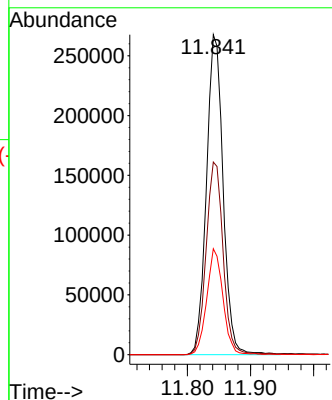
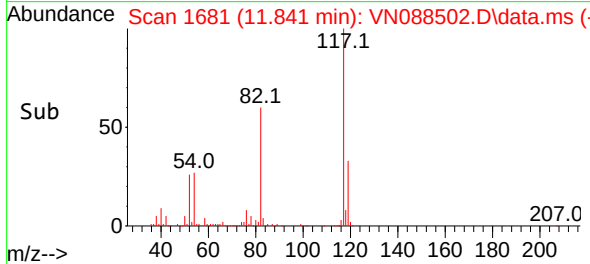


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Instrument :
MSVOA_N
ClientSampleId :

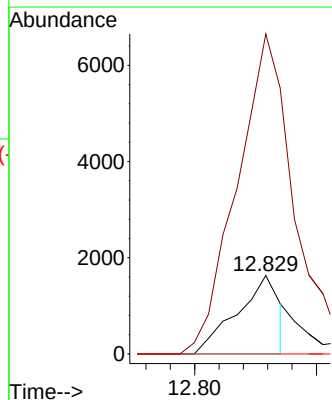
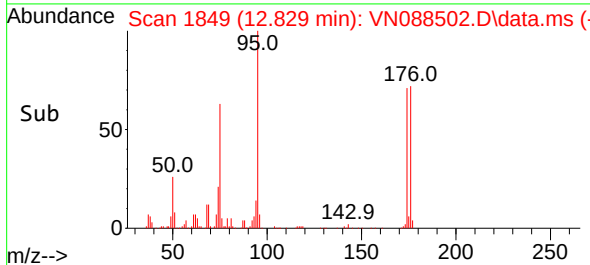
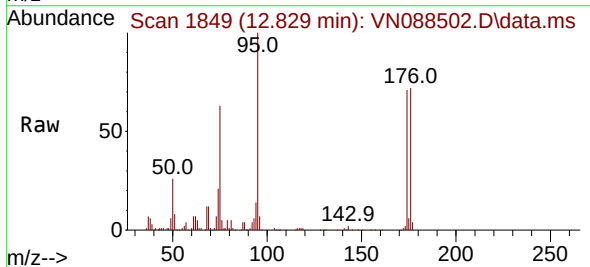


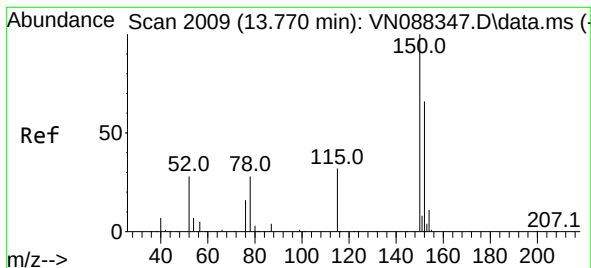
Tgt Ion:117 Resp: 489656
Ion Ratio Lower Upper
117 100
82 60.2 47.8 71.8
119 33.1 26.9 40.3



#71
Bromoform
Concen: 0.730 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Tgt Ion:173 Resp: 1983
Ion Ratio Lower Upper
173 100
175 430.5 23.9 71.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

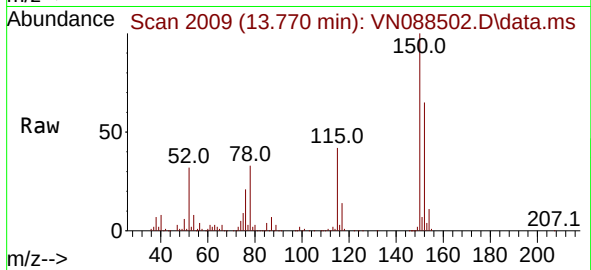
Lab File: VN088502.D

Acq: 10 Dec 2025 15:50

Instrument :

MSVOA_N

ClientSampleId :



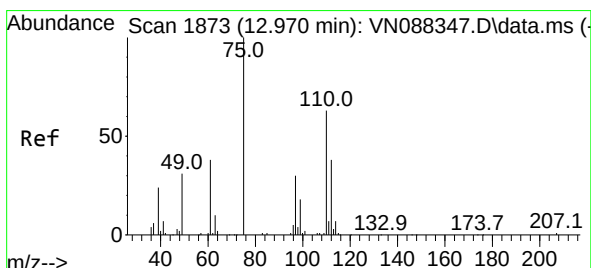
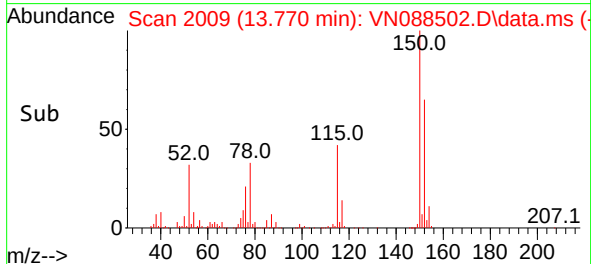
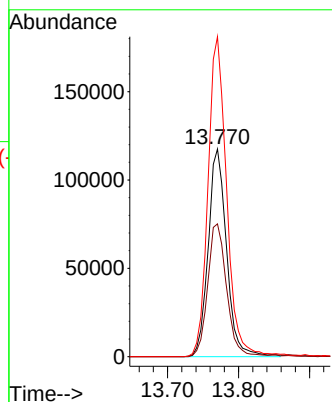
Tgt Ion:152 Resp: 212090

Ion Ratio Lower Upper

152 100

115 65.6 33.0 98.9

150 156.1 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 24.430 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088502.D

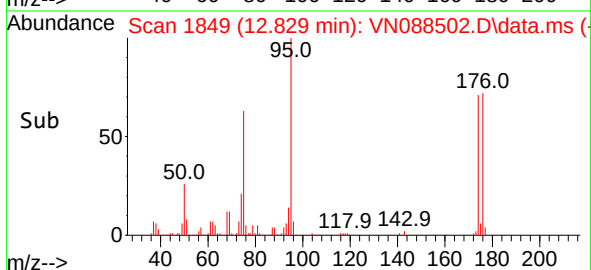
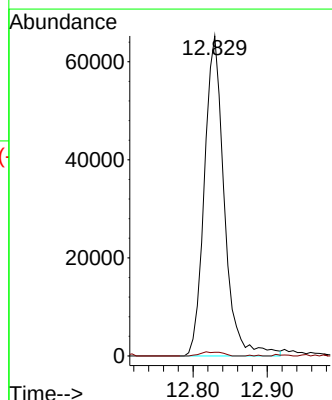
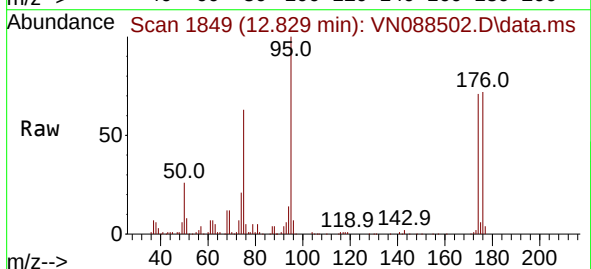
Acq: 10 Dec 2025 15:50

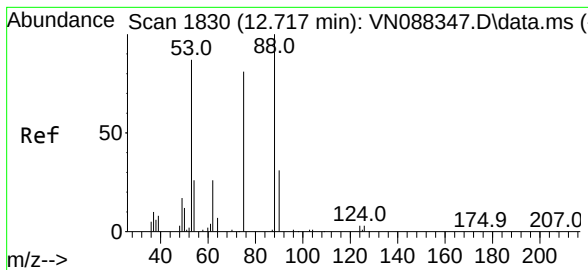
Tgt Ion: 75 Resp: 121357

Ion Ratio Lower Upper

75 100

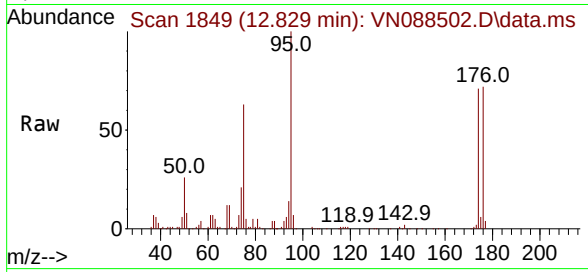
77 1.4 87.2 261.6#





#81
trans-1,4-Dichloro-2-butene
Concen: 69.307 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN088502.D
Acq: 10 Dec 2025 15:50

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.2	92.2	138.4#
89	0.5	0.0	0.0#

