

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088498.D
 Acq On : 10 Dec 2025 14:27
 Operator : JC\MD
 Sample : Q3814-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:08:17 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)

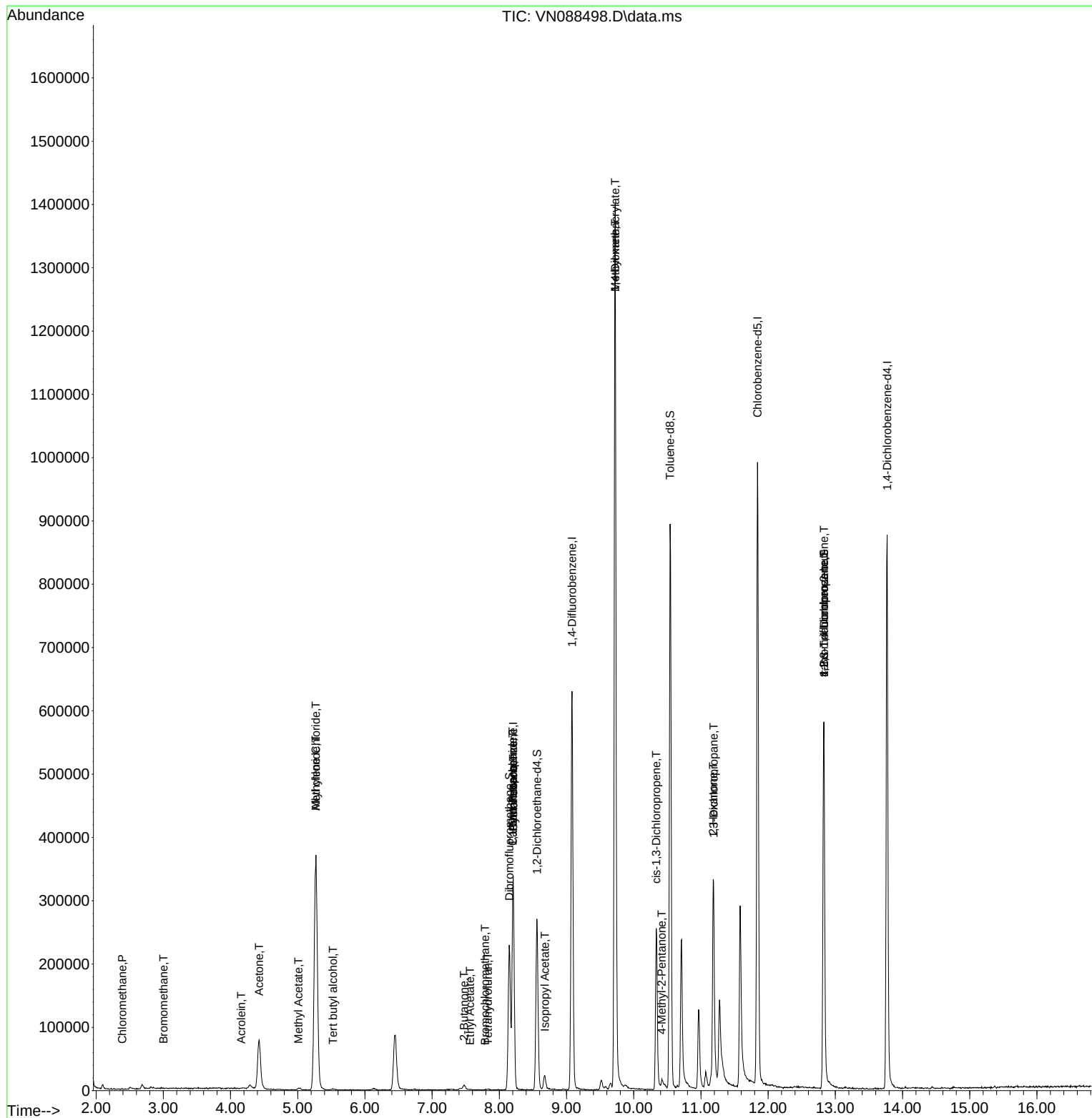
Internal Standards						
1) Pentafluorobenzene	8.206	168	209157	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	492790	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	515779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	224666	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	227197	57.663	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.320%			
35) Dibromofluoromethane	8.147	113	162099	47.467	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.940%			
50) Toluene-d8	10.541	98	582359	45.832	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.660%			
62) 4-Bromofluorobenzene	12.829	95	213858	49.052	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.100%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	1265	0.375	ug/l #	83
5) Bromomethane	3.001	94	437	0.265	ug/l #	54
11) Tert butyl alcohol	5.524	59	2350	3.736	ug/l #	72
13) Acrolein	4.159	56	185	0.307	ug/l #	1
14) Allyl chloride	5.271	41	11114	2.350	ug/l #	19
16) Acetone	4.424	43	161427	113.286	ug/l	95
18) Methyl Acetate	5.012	43	3744	0.883	ug/l #	87
20) Methylene Chloride	5.271	84	282396	92.629	ug/l	97
25) 2-Butanone	7.477	43	13646	5.957	ug/l	95
28) Bromochloromethane	7.789	49	648	0.227	ug/l #	80
29) Tetrahydrofuran	7.830	42	498	0.303	ug/l #	36
31) Cyclohexane	8.206	56	7129	1.376	ug/l #	36
36) 1,1-Dichloropropene	8.200	75	23719	4.500	ug/l #	51
37) Ethyl Acetate	7.565	43	1734	0.250	ug/l #	72
38) Carbon Tetrachloride	8.200	117	26143	4.983	ug/l #	16
43) Isopropyl Acetate	8.677	43	29279	2.765	ug/l #	92
48) Methyl methacrylate	9.724	41	141961	29.385	ug/l #	49
49) 1,4-Dioxane	9.724	88	243	3.955	ug/l #	1
51) 4-Methyl-2-Pentanone	10.418	43	7125	1.142	ug/l #	60
54) cis-1,3-Dichloropropene	10.335	75	42900	6.887	ug/l #	65
57) 1,3-Dichloropropane	11.188	76	3677	0.590	ug/l #	42
59) 2-Hexanone	11.182	43	69687	17.725	ug/l #	53
76) 1,2,3-Trichloropropane	12.829	75	123665	23.501	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	123665	66.671	ug/l #	1

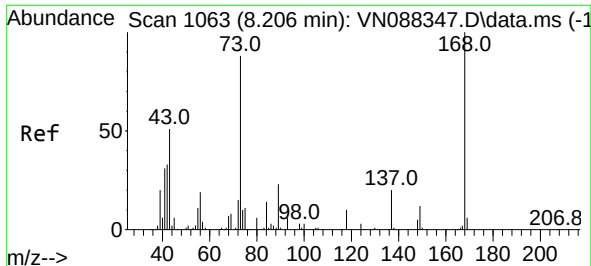
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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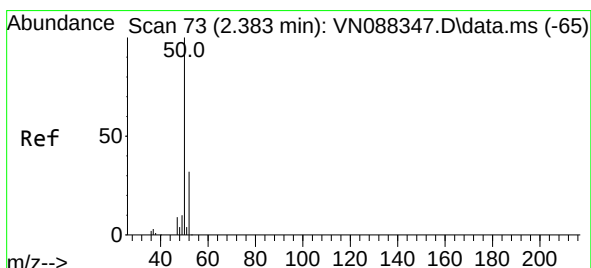
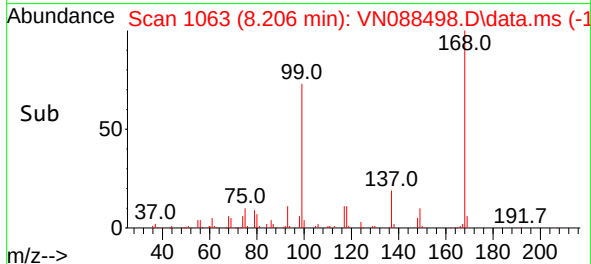
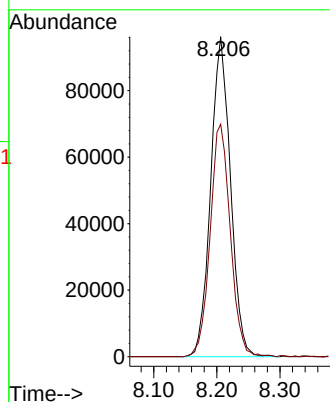
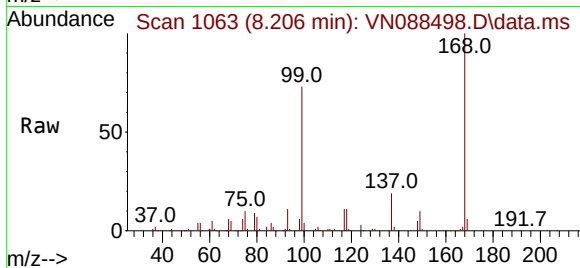




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

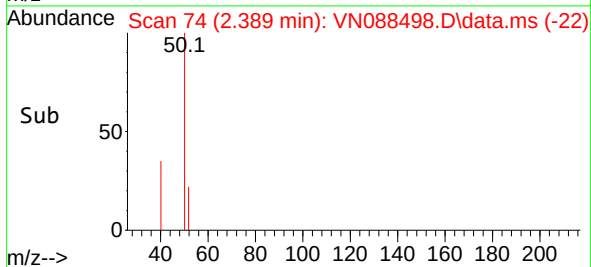
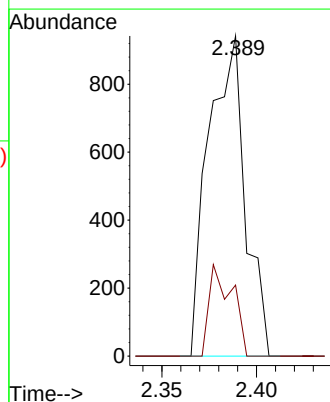
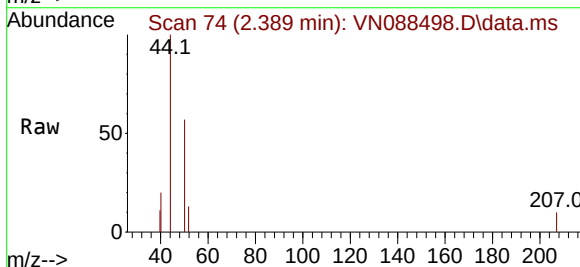
Instrument :
MSVOA_N
ClientSampleId :

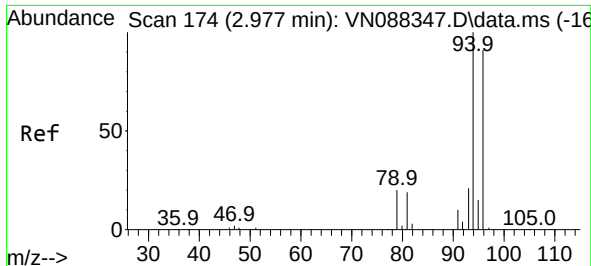
Tgt Ion:168 Resp: 209157
Ion Ratio Lower Upper
168 100
99 72.6 57.1 85.7



#3
Chloromethane
Concen: 0.375 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion: 50 Resp: 1265
Ion Ratio Lower Upper
50 100
52 22.2 25.2 37.8#

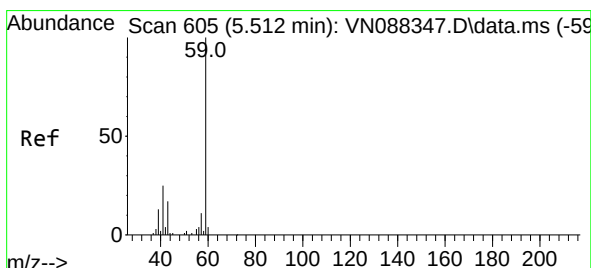
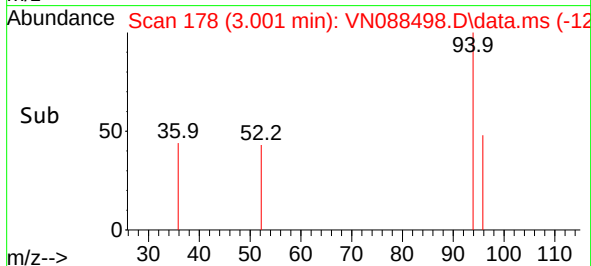
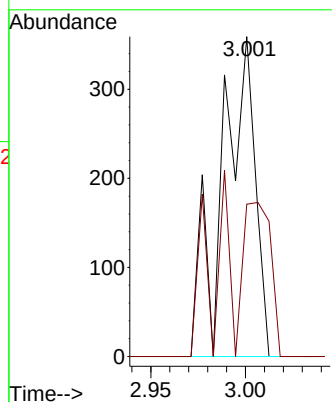
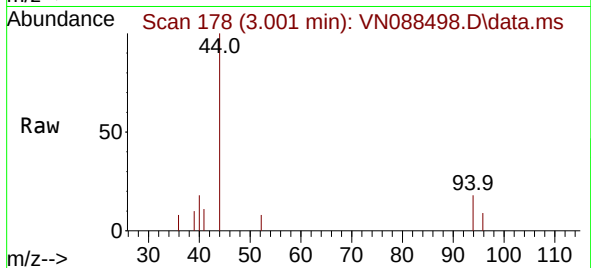




#5
Bromomethane
Concen: 0.265 ug/l
RT: 3.001 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

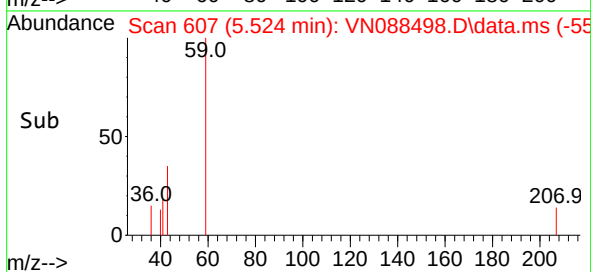
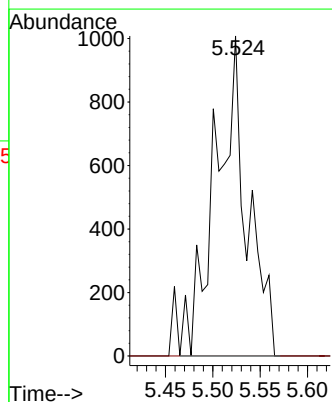
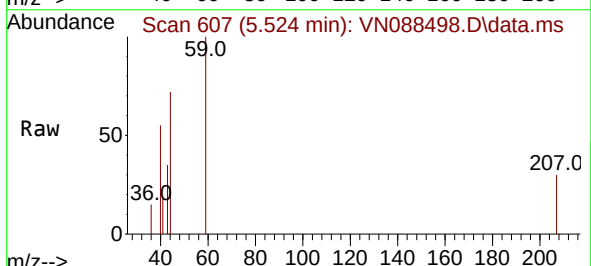
Instrument :
MSVOA_N
ClientSampleId :

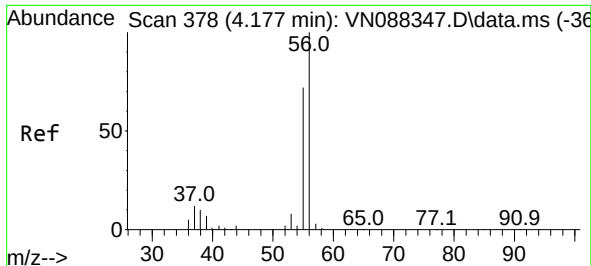
Tgt Ion: 94 Resp: 437
Ion Ratio Lower Upper
94 100
96 47.6 73.2 109.8#



#11
Tert butyl alcohol
Concen: 3.736 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion: 59 Resp: 2350
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.307 ug/l

RT: 4.159 min Scan# 31

Delta R.T. -0.017 min

Lab File: VN088498.D

Acq: 10 Dec 2025 14:27

Instrument :

MSVOA_N

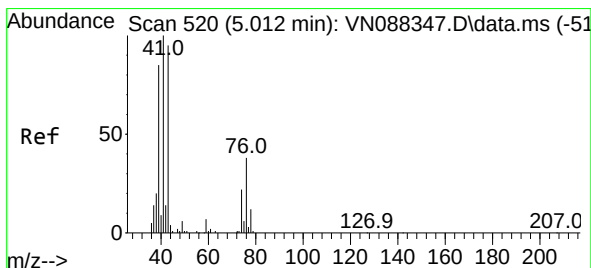
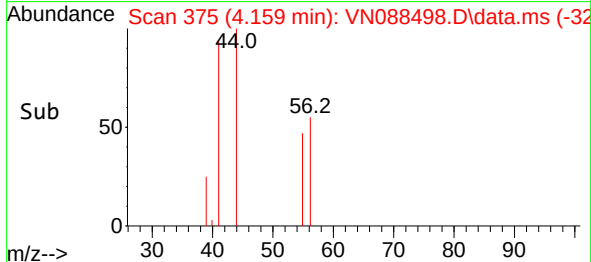
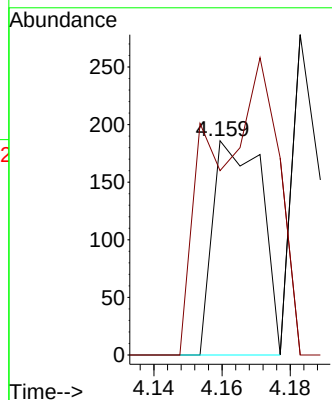
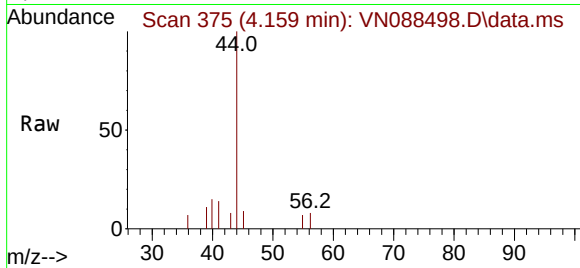
ClientSampleId :

Tgt Ion: 56 Resp: 185

Ion Ratio Lower Upper

56 100

55 184.9 56.3 84.5#



#14

Allyl chloride

Concen: 2.350 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.259 min

Lab File: VN088498.D

Acq: 10 Dec 2025 14:27

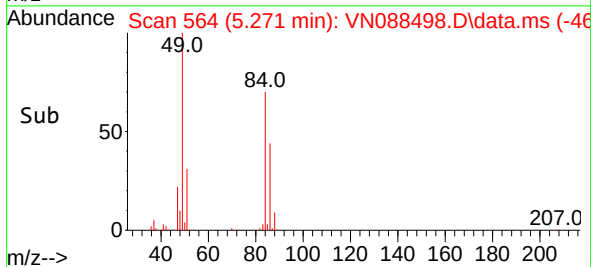
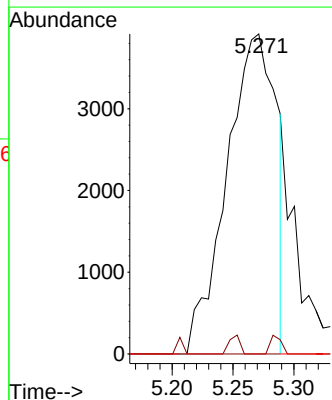
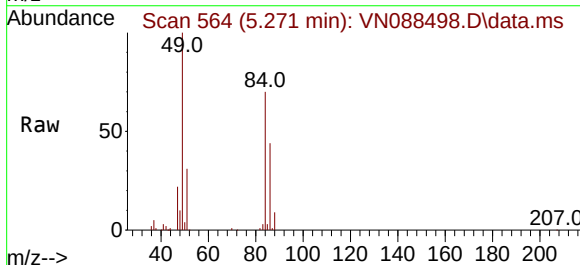
Tgt Ion: 41 Resp: 11114

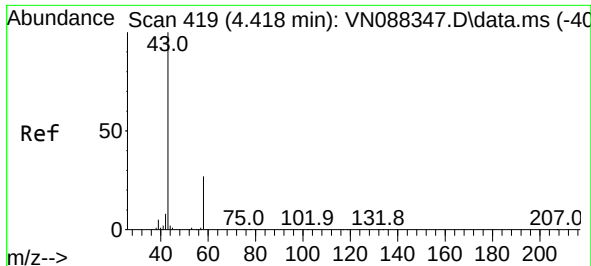
Ion Ratio Lower Upper

41 100

39 1.3 64.7 97.1#

76 0.0 29.1 43.7#

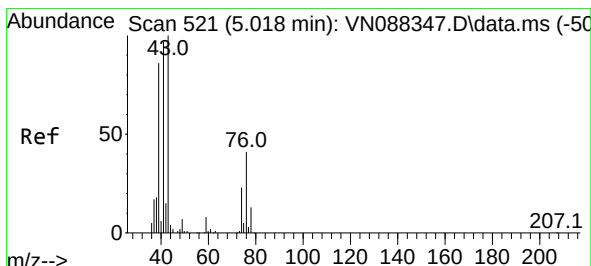
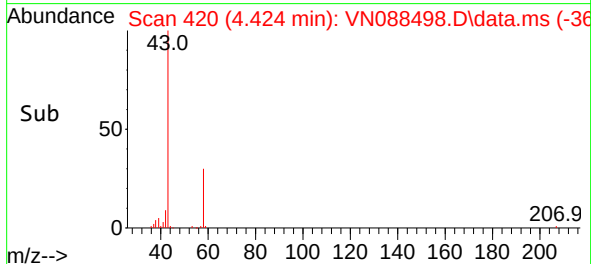
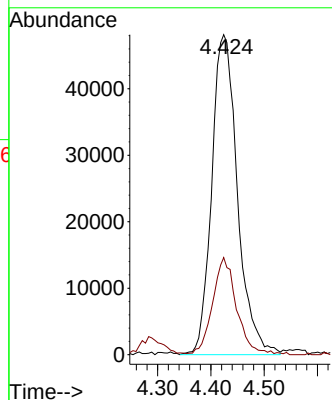
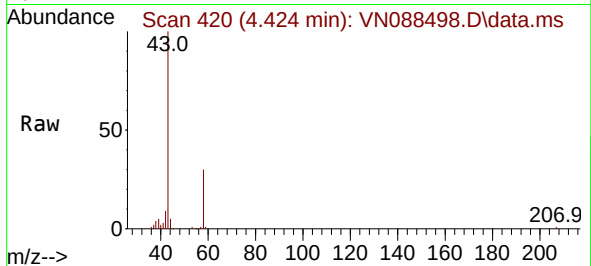




#16
Acetone
Concen: 113.286 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

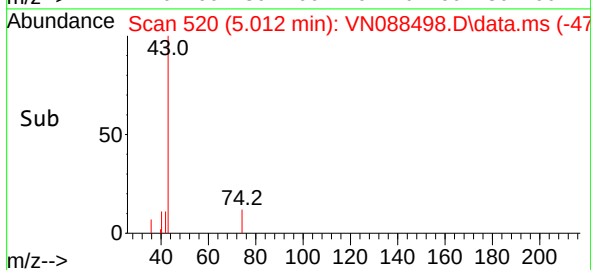
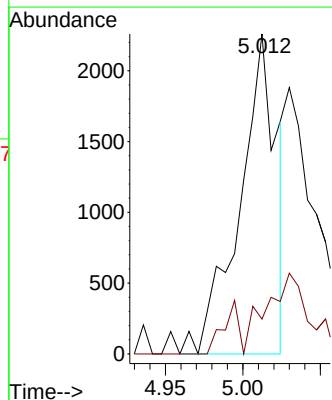
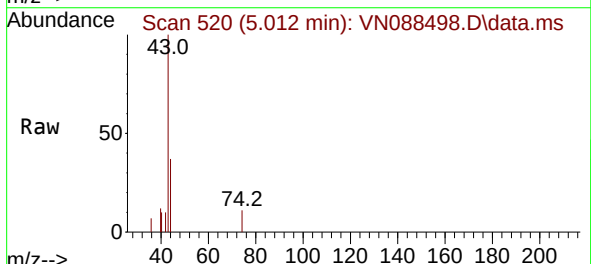
Instrument :
MSVOA_N
ClientSampleId :

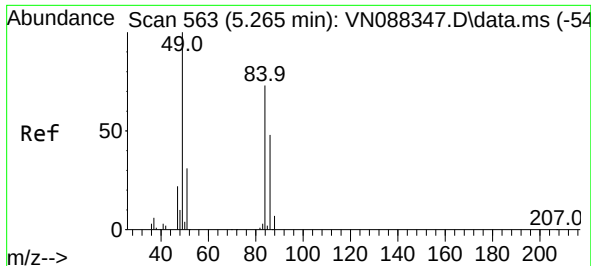
Tgt Ion: 43 Resp: 161427
Ion Ratio Lower Upper
43 100
58 29.8 21.7 32.5



#18
Methyl Acetate
Concen: 0.883 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

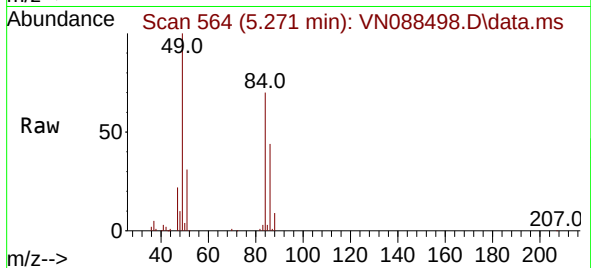
Tgt Ion: 43 Resp: 3744
Ion Ratio Lower Upper
43 100
74 28.7 17.9 26.9#



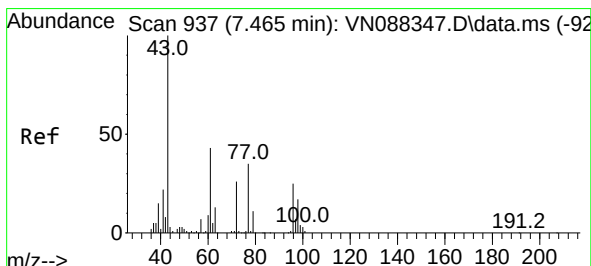
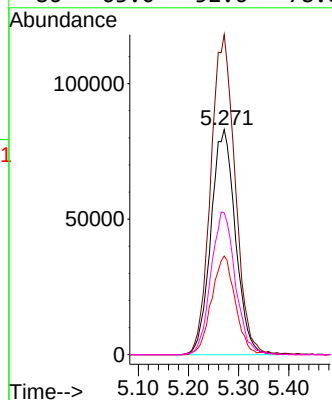
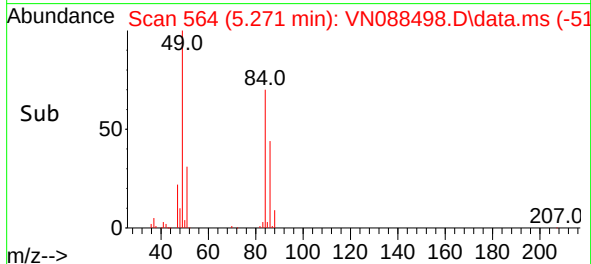


#20
Methylene Chloride
Concen: 92.629 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Instrument :
MSVOA_N
ClientSampleId :

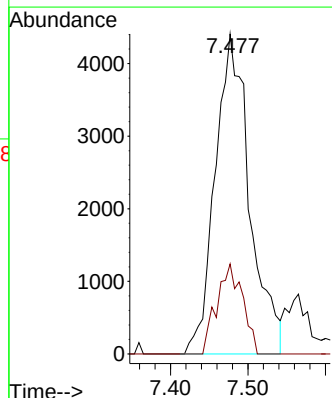
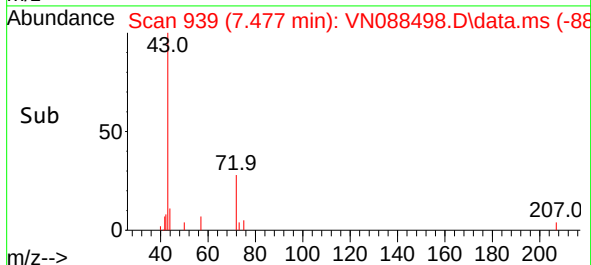
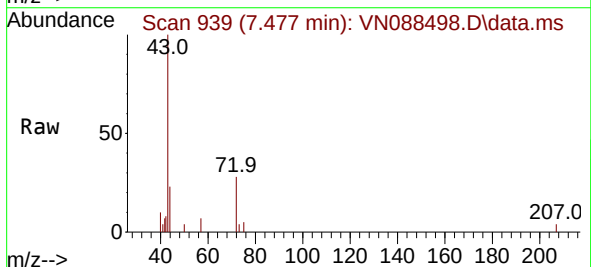


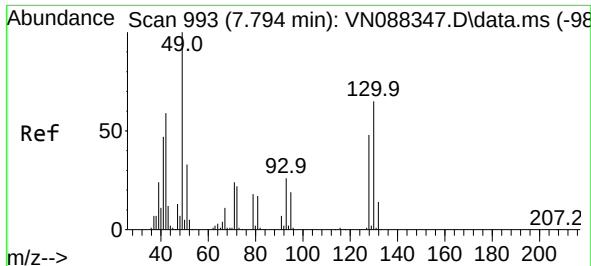
Tgt Ion: 84 Resp: 282396
Ion Ratio Lower Upper
84 100
49 142.1 110.2 165.2
51 43.9 34.1 51.1
86 63.0 52.6 78.8



#25
2-Butanone
Concen: 5.957 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

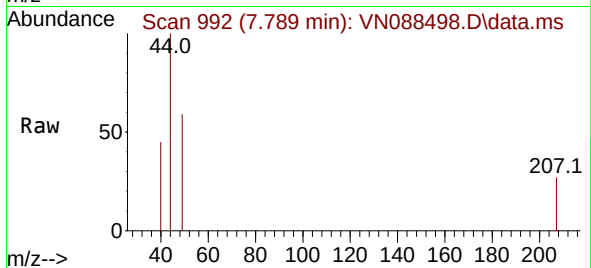
Tgt Ion: 43 Resp: 13646
Ion Ratio Lower Upper
43 100
72 28.2 20.5 30.7



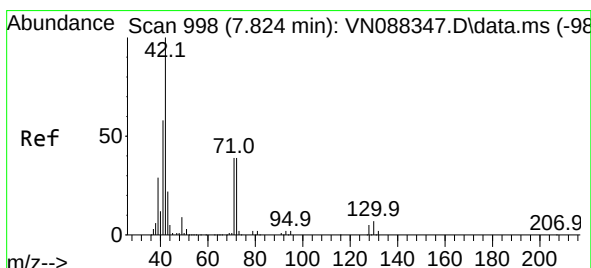
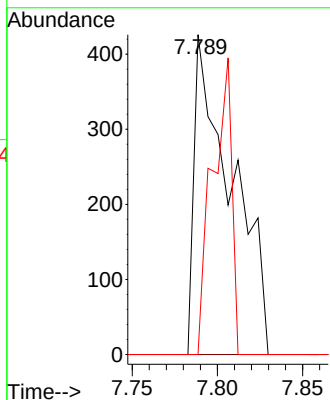
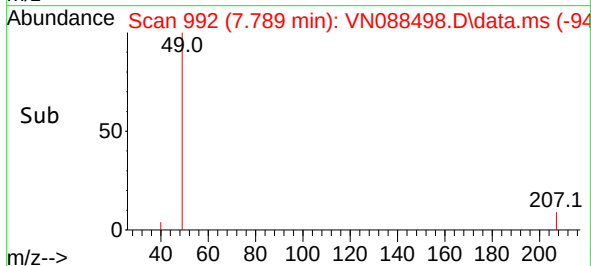


#28
Bromochloromethane
Concen: 0.227 ug/l
RT: 7.789 min Scan# 992
Delta R.T. -0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

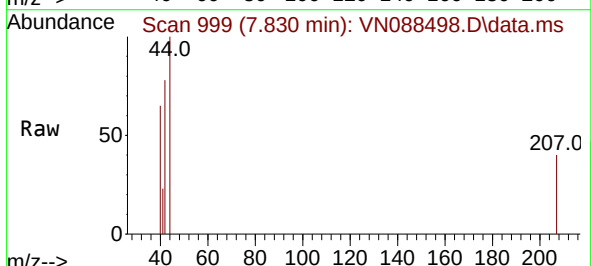
Instrument :
MSVOA_N
ClientSampleId :



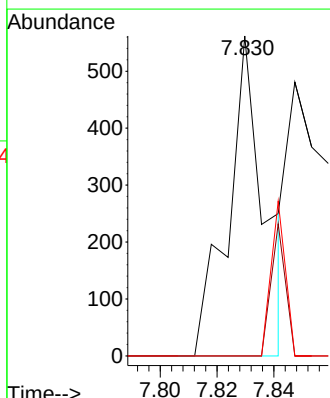
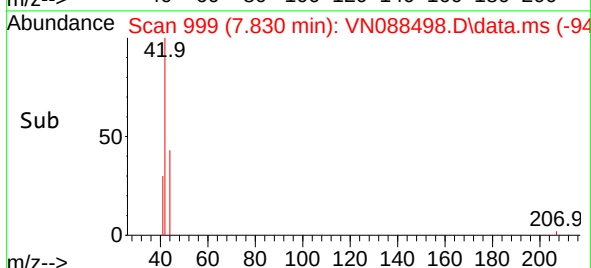
Tgt Ion: 49 Resp: 648
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 48.1 51.1 76.7#

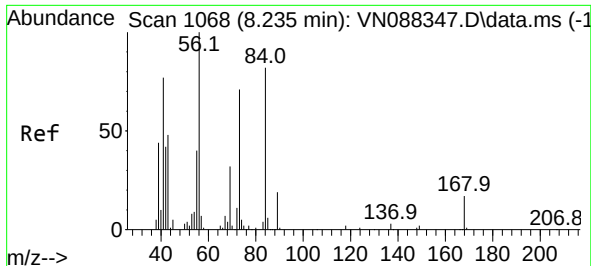


#29
Tetrahydrofuran
Concen: 0.303 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27



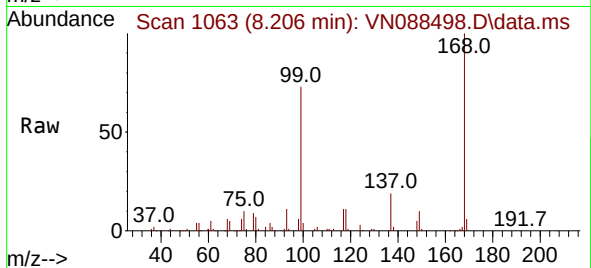
Tgt Ion: 42 Resp: 498
Ion Ratio Lower Upper
42 100
72 0.0 32.2 48.4#
71 0.0 31.1 46.7#



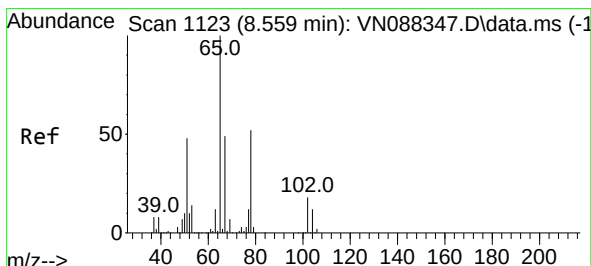
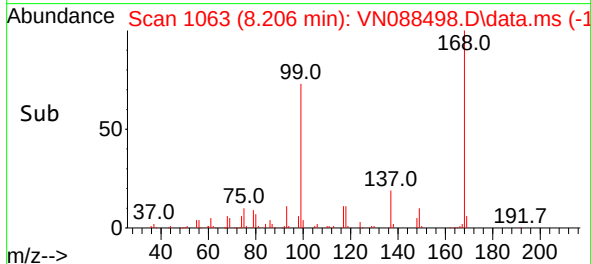
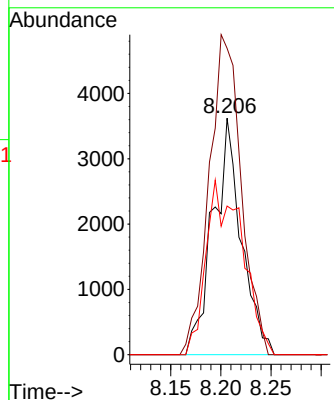


#31
Cyclohexane
Concen: 1.376 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Instrument :
MSVOA_N
ClientSampleId :

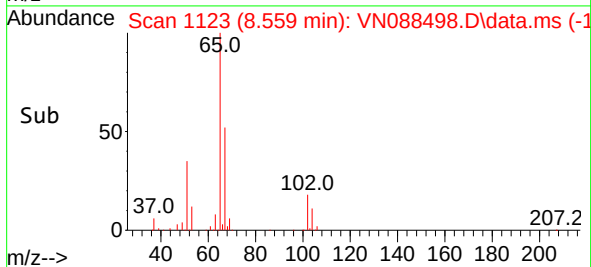
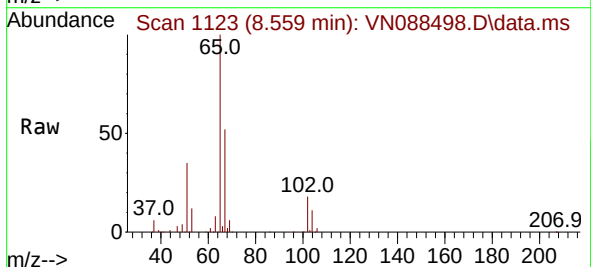
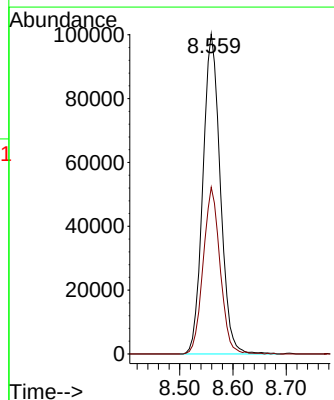


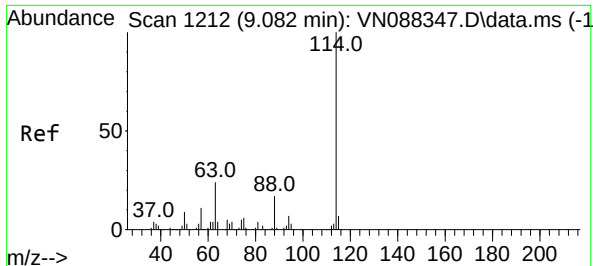
Tgt Ion: 56 Resp: 7129
Ion Ratio Lower Upper
56 100
69 124.4 25.3 37.9#
84 60.3 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 57.663 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

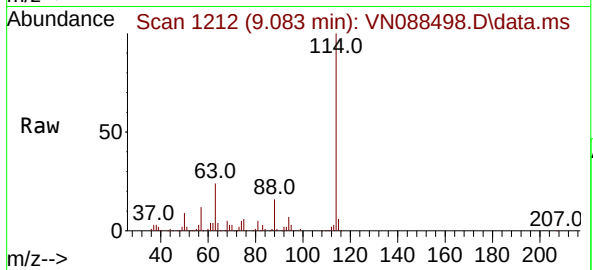
Tgt Ion: 65 Resp: 227197
Ion Ratio Lower Upper
65 100
67 50.7 0.0 100.8



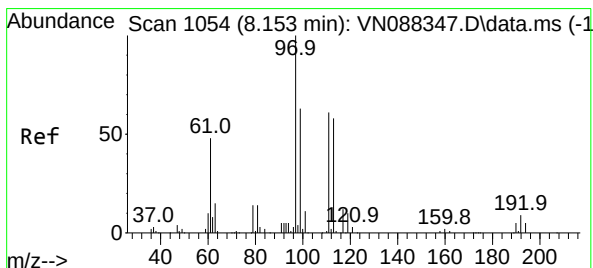
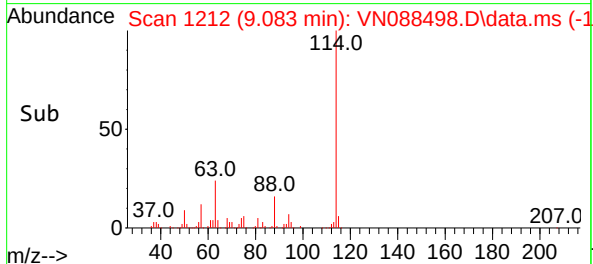
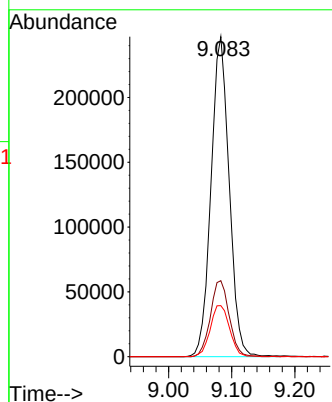


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Instrument :
MSVOA_N
ClientSampleId :

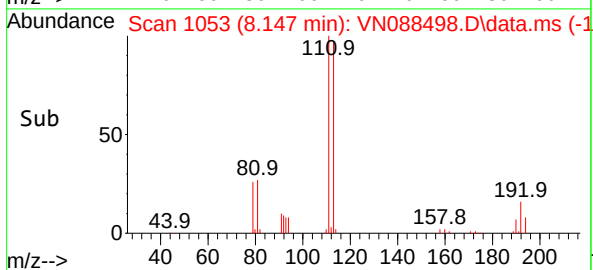
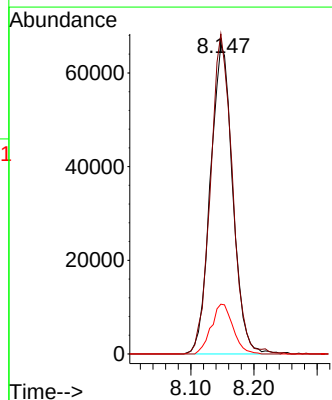
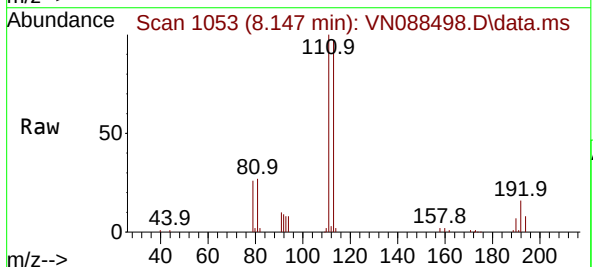


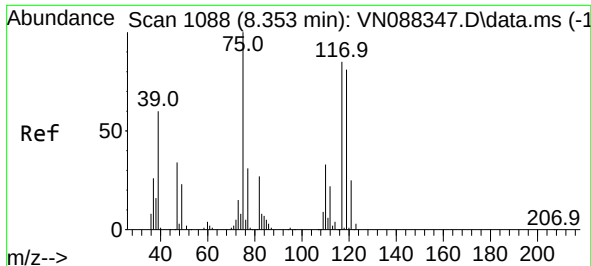
Tgt Ion:114 Resp: 492790
Ion Ratio Lower Upper
114 100
63 23.8 0.0 49.0
88 16.0 0.0 34.0



#35
Dibromofluoromethane
Concen: 47.467 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion:113 Resp: 162099
Ion Ratio Lower Upper
113 100
111 101.4 82.5 123.7
192 15.7 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.500 ug/l

RT: 8.200 min Scan# 1

Delta R.T. -0.153 min

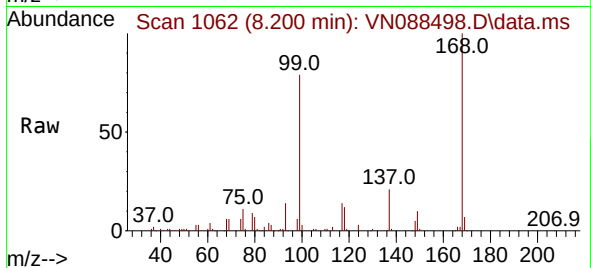
Lab File: VN088498.D

Acq: 10 Dec 2025 14:27

Instrument :

MSVOA_N

ClientSampleId :



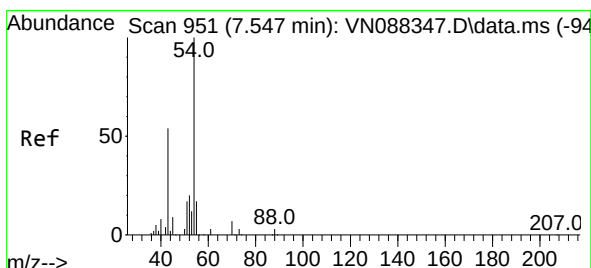
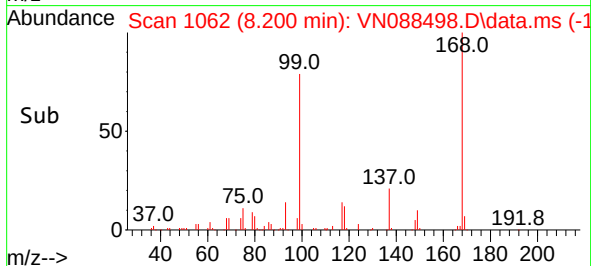
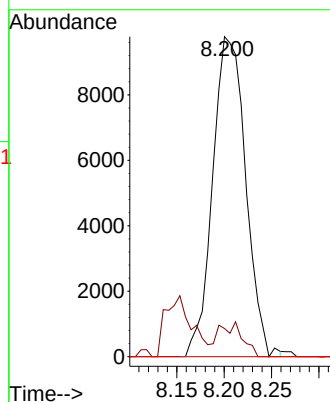
Tgt Ion: 75 Resp: 23719

Ion Ratio Lower Upper

75 100

110 7.9 15.8 47.4#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.250 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.018 min

Lab File: VN088498.D

Acq: 10 Dec 2025 14:27

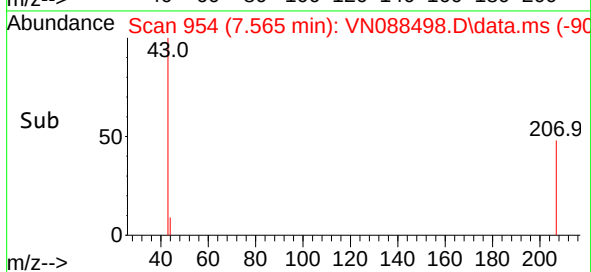
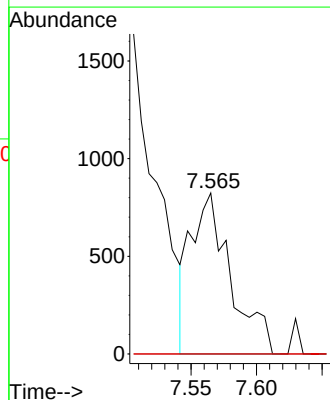
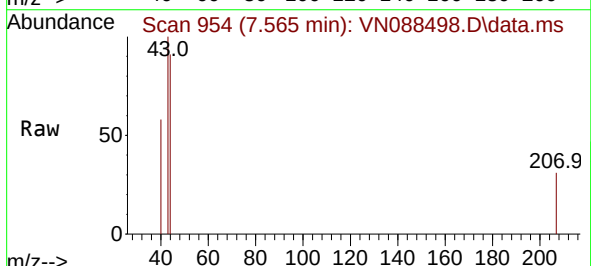
Tgt Ion: 43 Resp: 1734

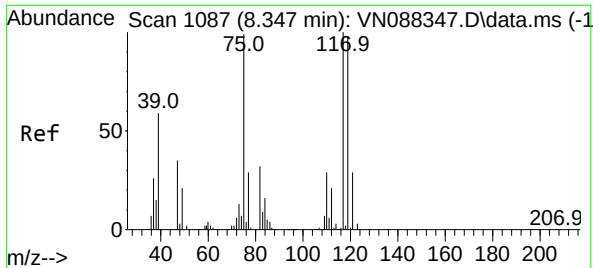
Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

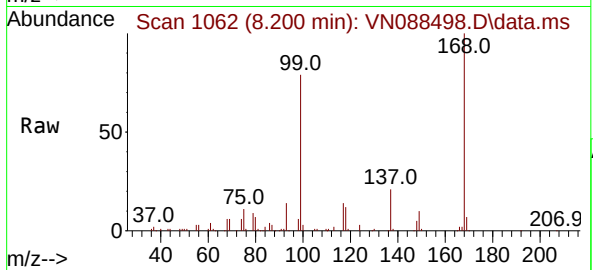
70 0.0 7.1 10.7#



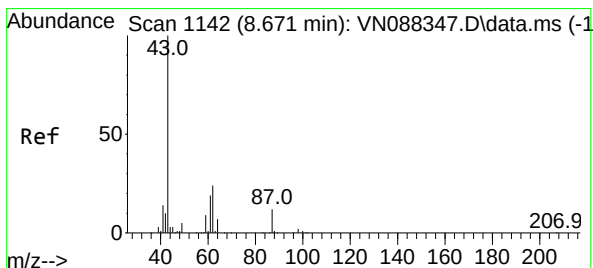
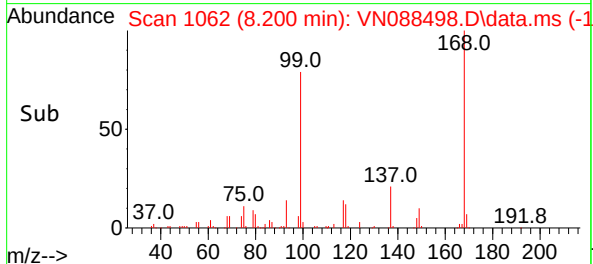
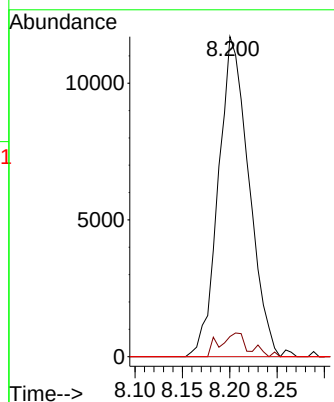


#38
Carbon Tetrachloride
Concen: 4.983 ug/l
RT: 8.200 min Scan# 110
Delta R.T. -0.147 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Instrument :
MSVOA_N
ClientSampleId :

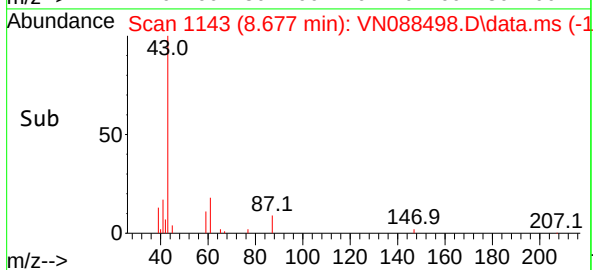
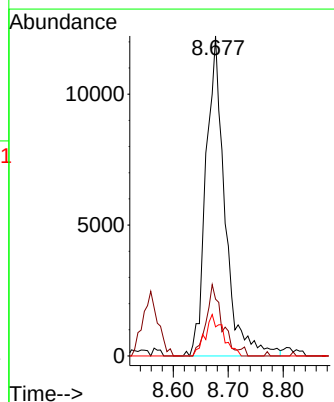
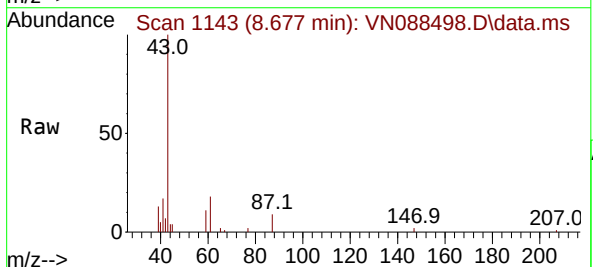


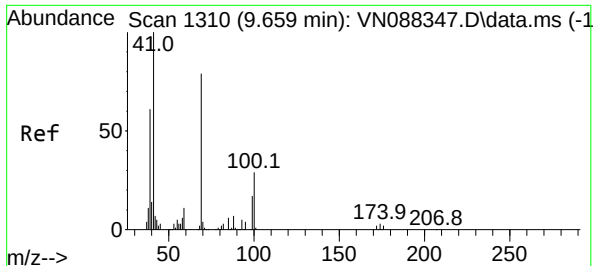
Tgt Ion: 117 Resp: 26143
Ion Ratio Lower Upper
117 100
119 6.3 78.2 117.4#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 2.765 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion: 43 Resp: 29279
Ion Ratio Lower Upper
43 100
61 18.2 18.7 28.1#
87 12.2 9.1 13.7

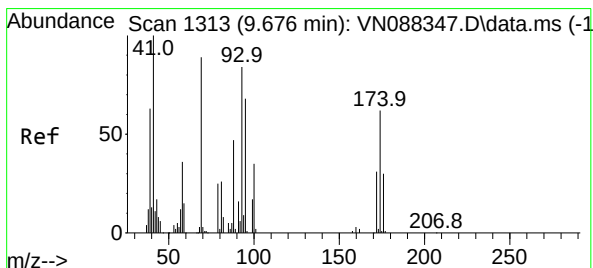
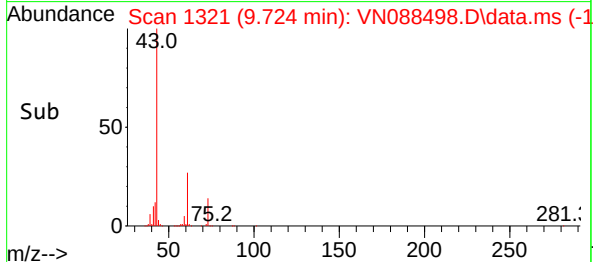
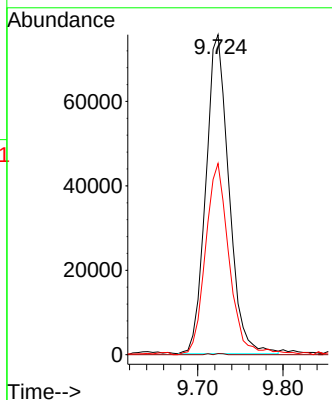
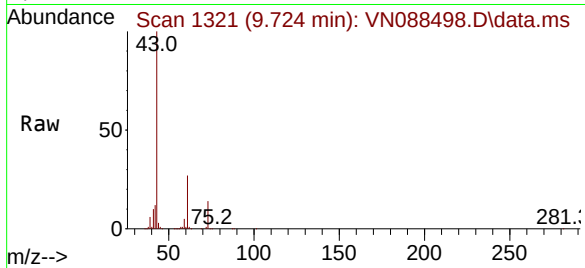




#48
Methyl methacrylate
Concen: 29.385 ug/l
RT: 9.724 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

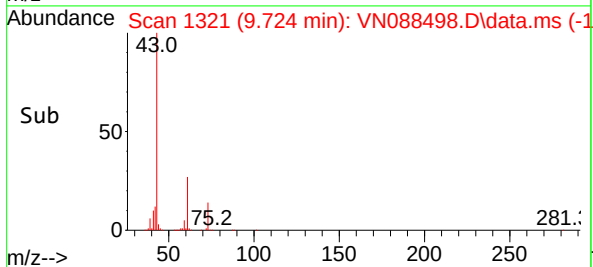
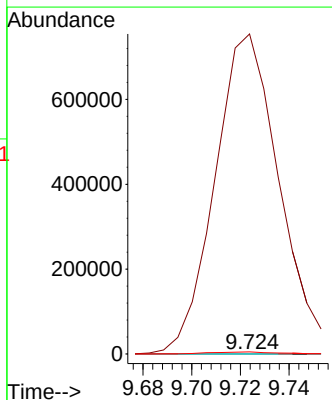
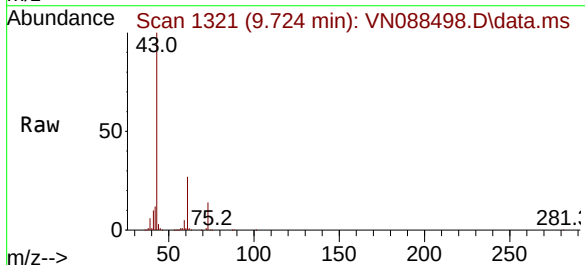
Instrument :
MSVOA_N
ClientSampleId :

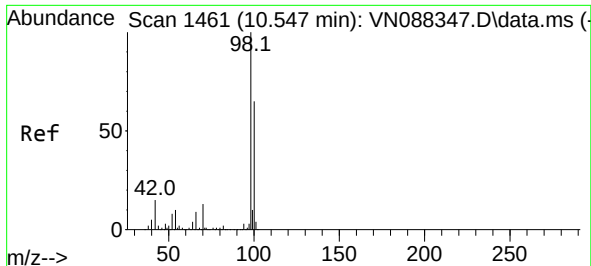
Tgt Ion: 41 Resp: 141961
Ion Ratio Lower Upper
41 100
69 0.2 62.4 93.6#
39 62.0 52.6 79.0



#49
1,4-Dioxane
Concen: 3.955 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.047 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion: 88 Resp: 243
Ion Ratio Lower Upper
88 100
43 585309.5 0.0 0.0#
58 3965.4 62.0 93.0#

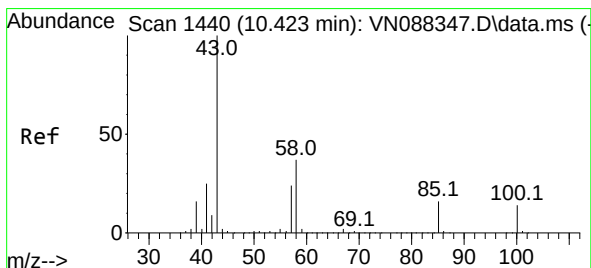
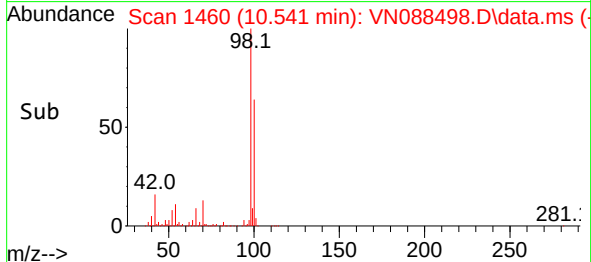
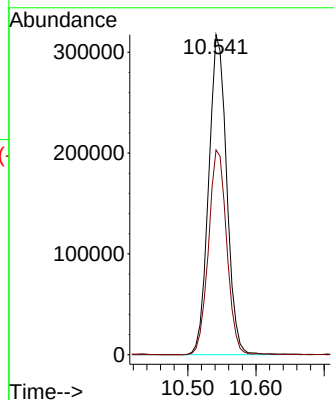
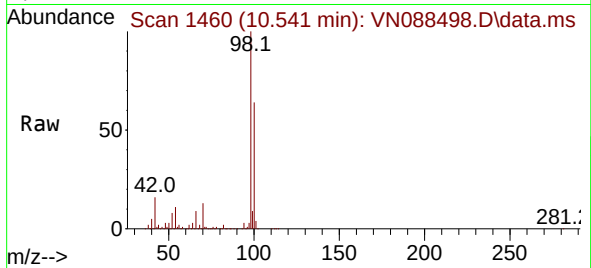




#50
Toluene-d8
Concen: 45.832 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

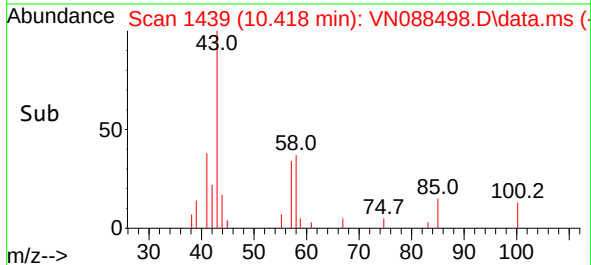
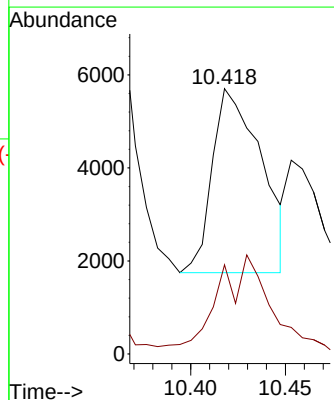
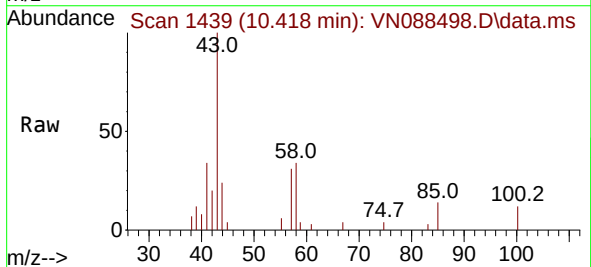
Instrument :
MSVOA_N
ClientSampleId :

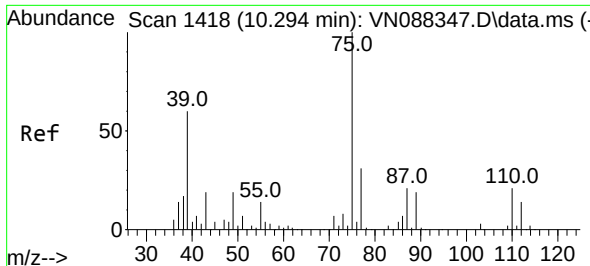
Tgt Ion: 98 Resp: 582359
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.142 ug/l
RT: 10.418 min Scan# 1439
Delta R.T. -0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion: 43 Resp: 7125
Ion Ratio Lower Upper
43 100
58 60.2 29.1 43.7#

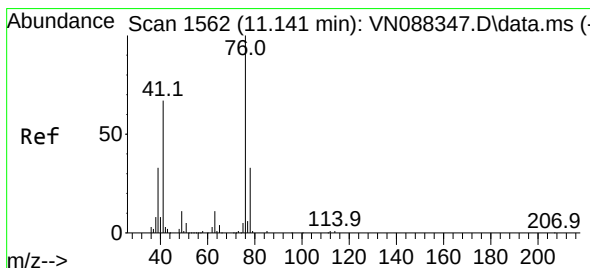
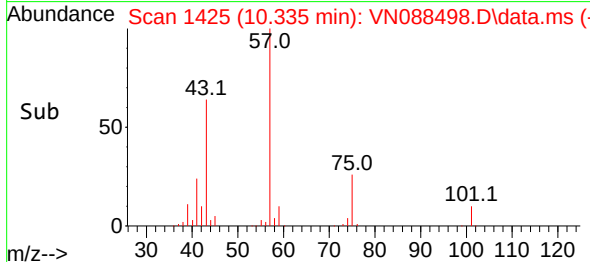
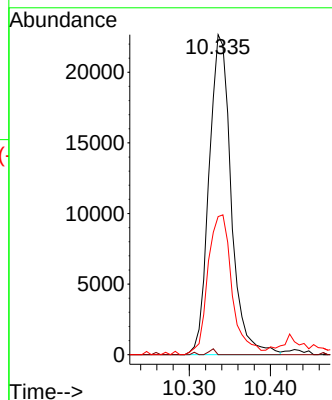
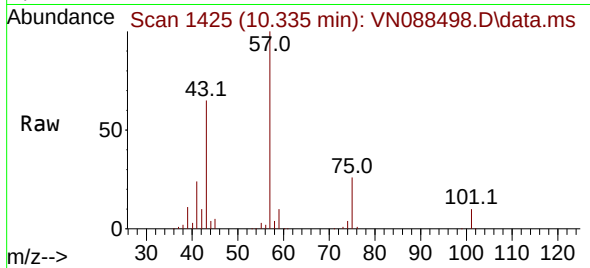




#54
cis-1,3-Dichloropropene
Concen: 6.887 ug/l
RT: 10.335 min Scan# 1418
Delta R.T. 0.041 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

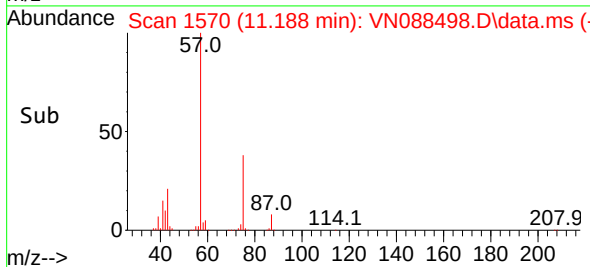
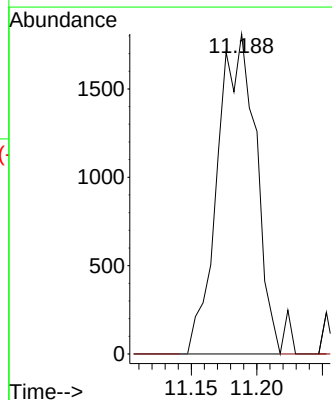
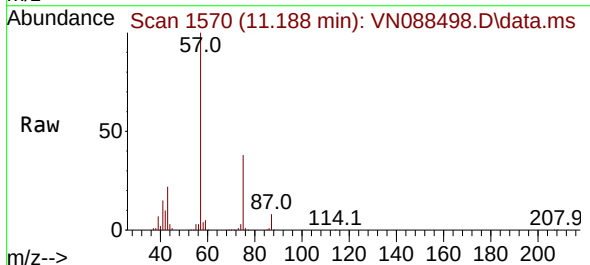
Instrument :
MSVOA_N
ClientSampleId :

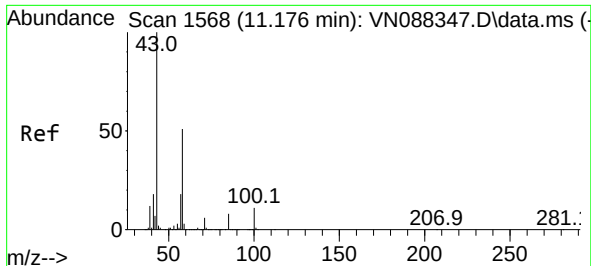
Tgt Ion: 75 Resp: 42900
Ion Ratio Lower Upper
75 100
77 0.0 24.5 36.7#
39 41.6 48.3 72.5#



#57
1,3-Dichloropropane
Concen: 0.590 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.047 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion: 76 Resp: 3677
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

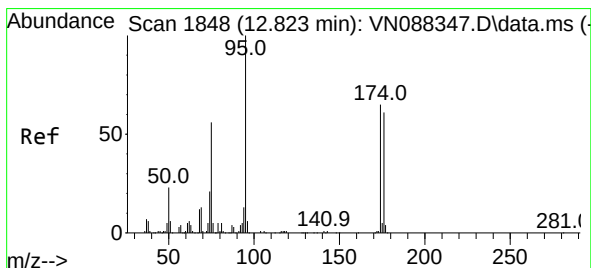
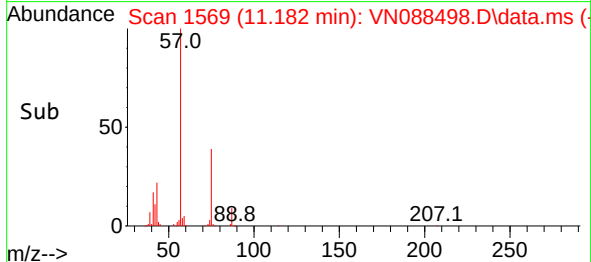
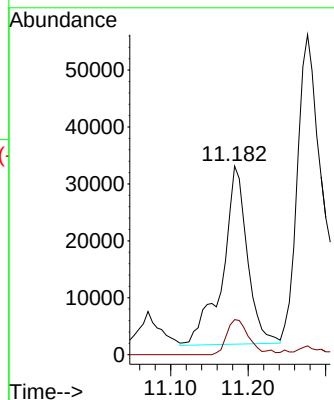
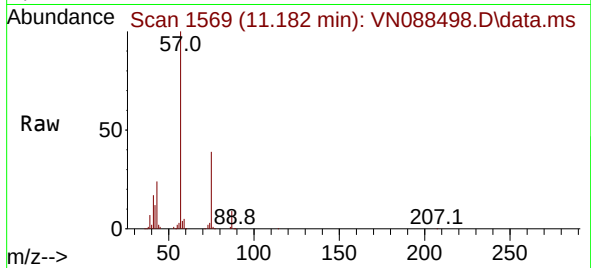




#59
2-Hexanone
Concen: 17.725 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

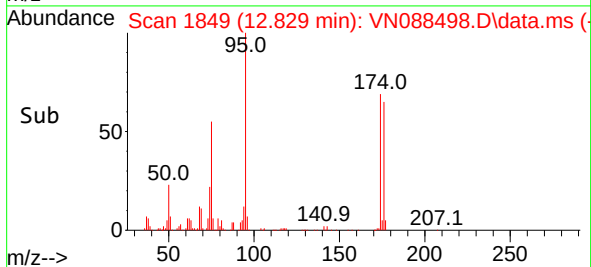
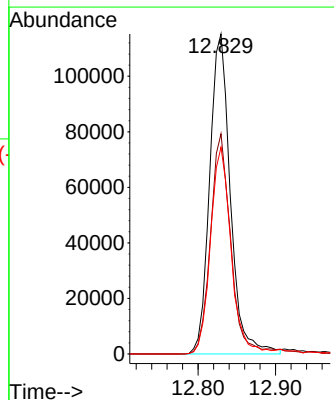
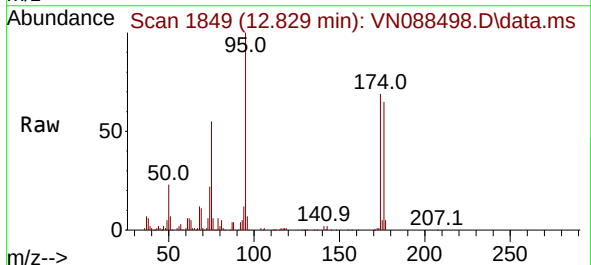
Instrument :
MSVOA_N
ClientSampleId :

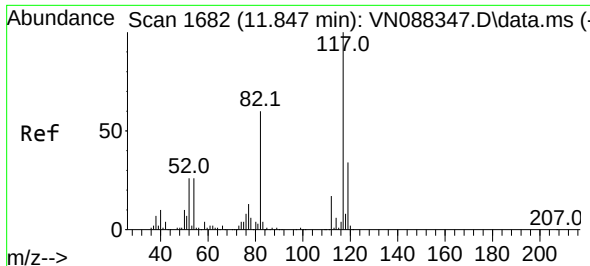
Tgt Ion: 43 Resp: 69687
Ion Ratio Lower Upper
43 100
58 17.9 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 49.052 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

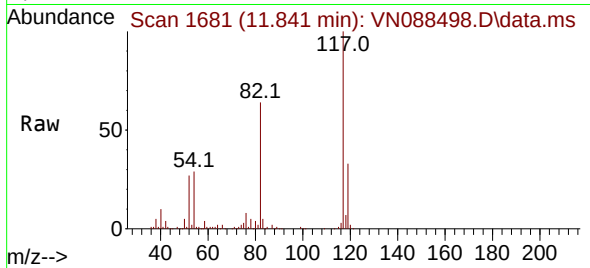
Tgt Ion: 95 Resp: 213858
Ion Ratio Lower Upper
95 100
174 68.2 0.0 139.0
176 64.1 0.0 132.4



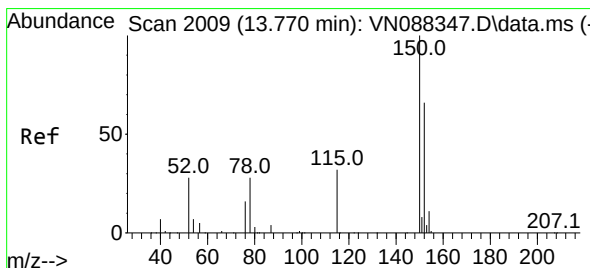
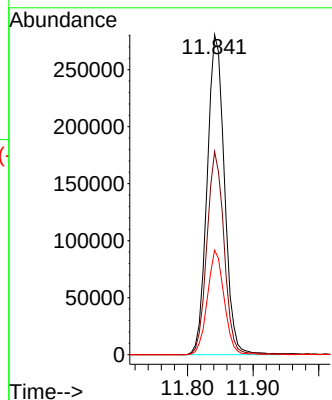
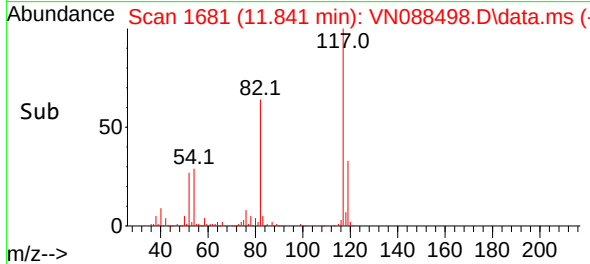


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

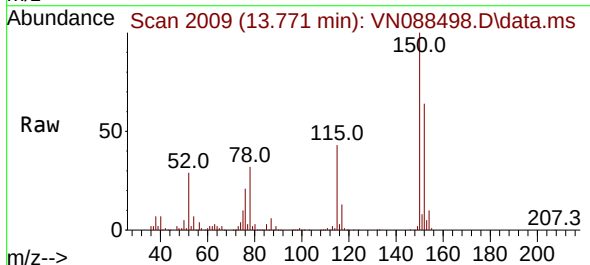
Instrument :
MSVOA_N
ClientSampleId :



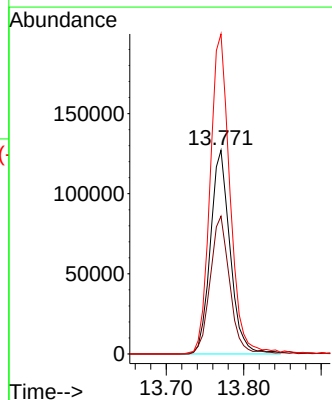
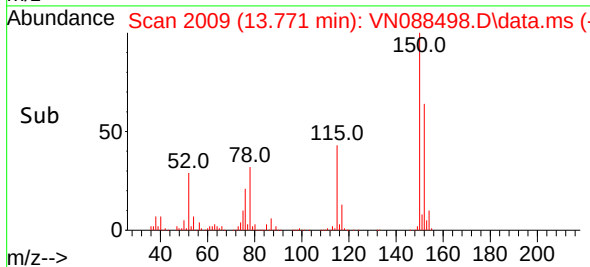
Tgt Ion:117 Resp: 515779
Ion Ratio Lower Upper
117 100
82 63.5 47.8 71.8
119 32.7 26.9 40.3

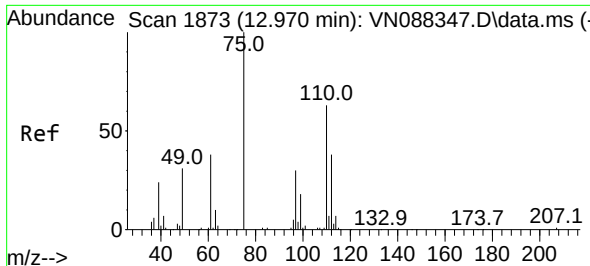


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27



Tgt Ion:152 Resp: 224666
Ion Ratio Lower Upper
152 100
115 67.4 33.0 98.9
150 159.0 0.0 349.0

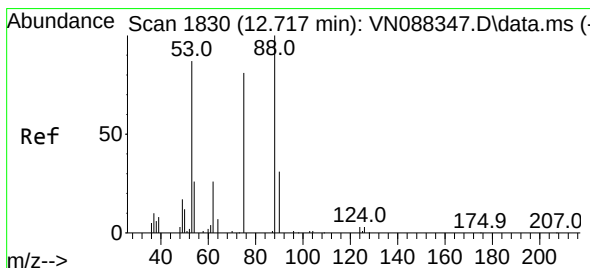
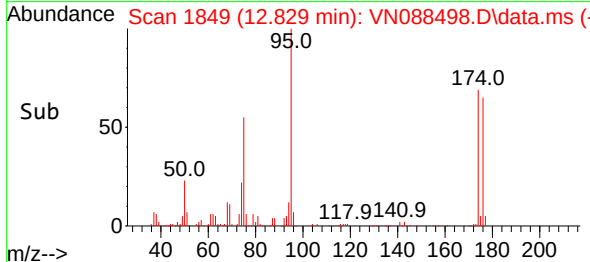
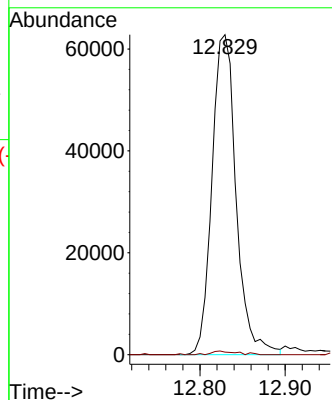
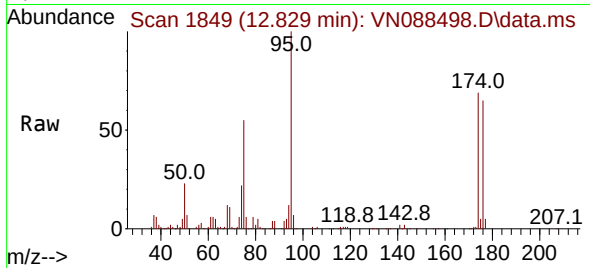




#76
1,2,3-Trichloropropane
Concen: 23.501 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 123665
Ion Ratio Lower Upper
75 100
77 1.0 87.2 261.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.671 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088498.D
Acq: 10 Dec 2025 14:27

Tgt Ion: 75 Resp: 123665
Ion Ratio Lower Upper
75 100
53 0.0 92.2 138.4#
89 0.2 0.0 0.0#

