

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088508.D
 Acq On : 10 Dec 2025 17:54
 Operator : JC\MD
 Sample : Q3826-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:13:17 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)

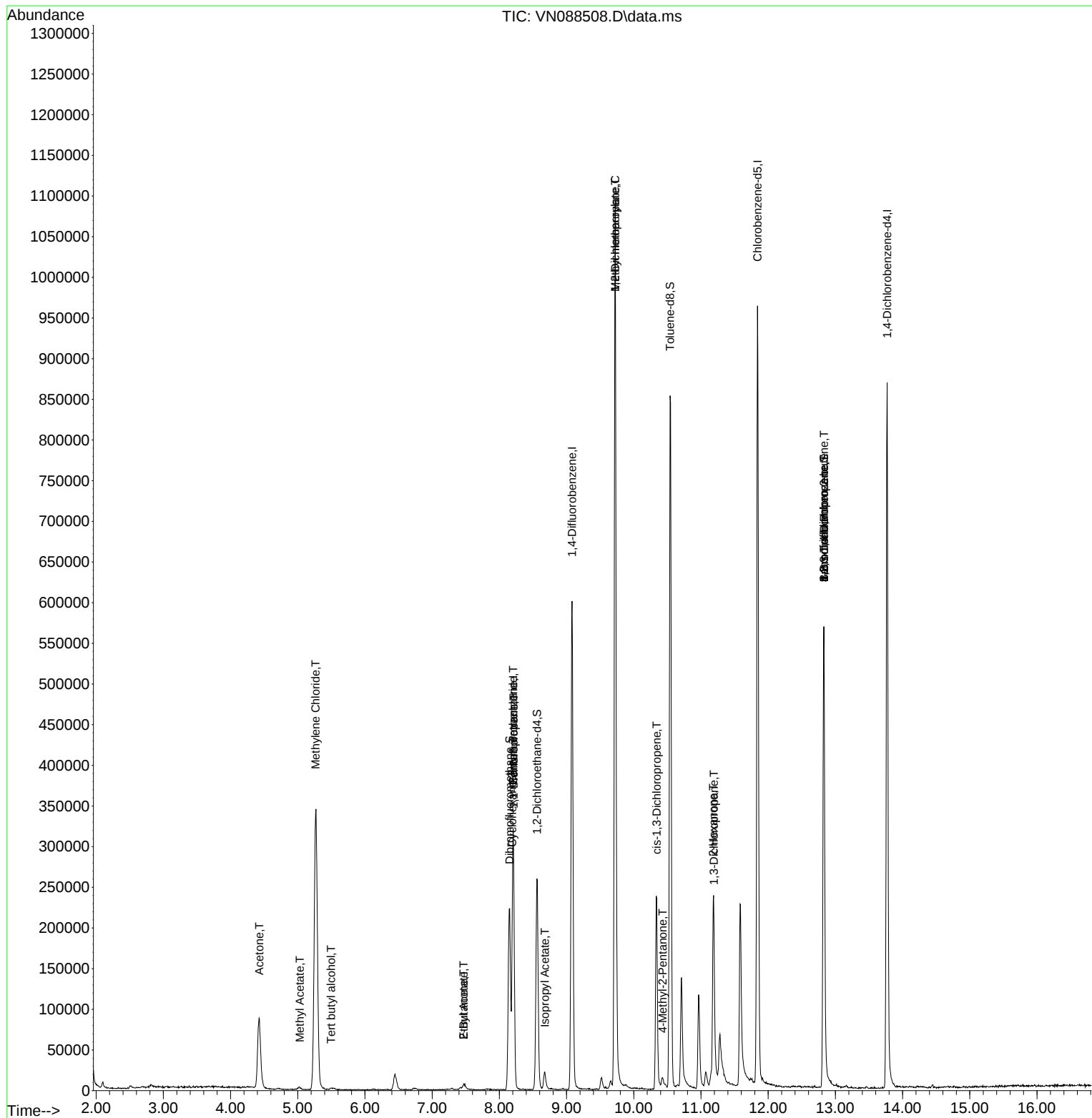
Internal Standards						
1) Pentafluorobenzene	8.206	168	201740	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	476029	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	503228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	226245	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	226107	59.496	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.000%			
35) Dibromofluoromethane	8.153	113	161998	49.107	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.220%			
50) Toluene-d8	10.541	98	571374	46.550	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.100%			
62) 4-Bromofluorobenzene	12.829	95	210265	49.926	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.860%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.494	59	2013	3.318	ug/l #	72
16) Acetone	4.430	43	180932	131.643	ug/l	95
18) Methyl Acetate	5.030	43	7081	1.731	ug/l #	88
20) Methylene Chloride	5.265	84	263791	89.707	ug/l	97
25) 2-Butanone	7.471	43	13603	6.156	ug/l #	88
31) Cyclohexane	8.194	56	6798	1.360	ug/l #	39
36) 1,1-Dichloropropene	8.212	75	22060	4.333	ug/l #	50
37) Ethyl Acetate	7.471	43	13603	2.032	ug/l #	73
38) Carbon Tetrachloride	8.206	117	25997	5.129	ug/l #	14
43) Isopropyl Acetate	8.676	43	27471	2.686	ug/l #	88
45) 1,2-Dichloropropane	9.723	63	1022	0.267	ug/l #	46
48) Methyl methacrylate	9.723	41	110739	23.729	ug/l #	48
51) 4-Methyl-2-Pentanone	10.429	43	8450	1.402	ug/l	98
54) cis-1,3-Dichloropropene	10.341	75	40647	6.755	ug/l #	69
57) 1,3-Dichloropropane	11.194	76	2726	0.453	ug/l #	42
59) 2-Hexanone	11.182	43	55763	14.683	ug/l #	51
71) Bromoform	12.829	173	1852	0.663	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	125687	23.719	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	125687	67.289	ug/l #	1

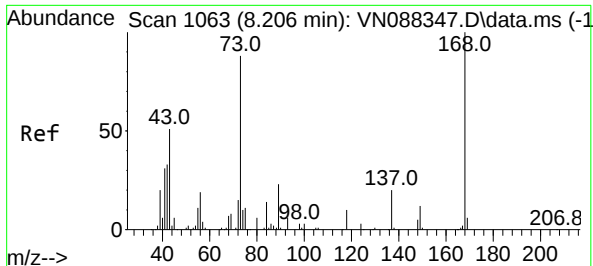
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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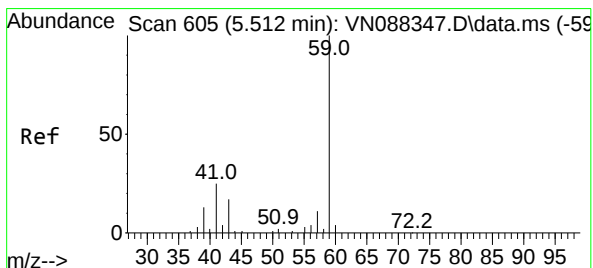
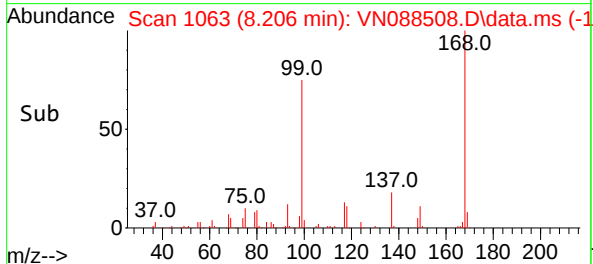
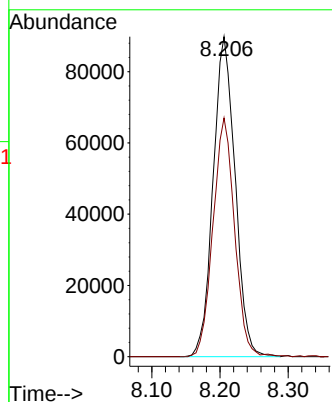
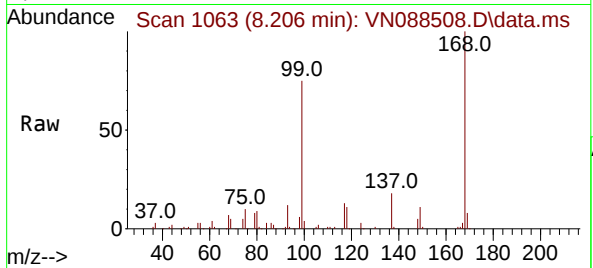




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

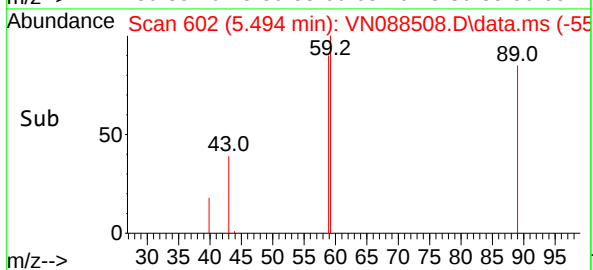
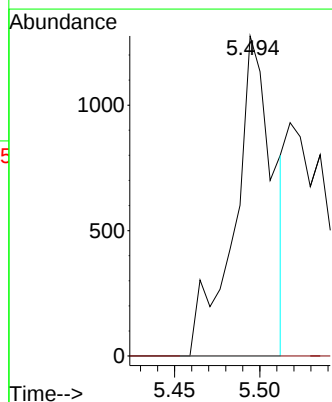
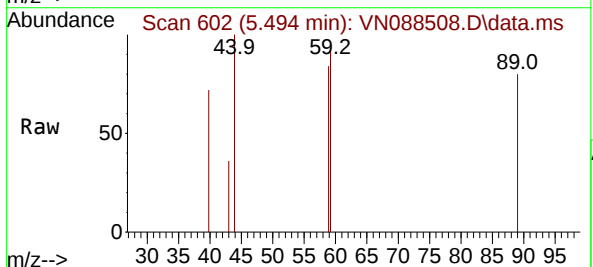
Instrument :
MSVOA_N
ClientSampleId :

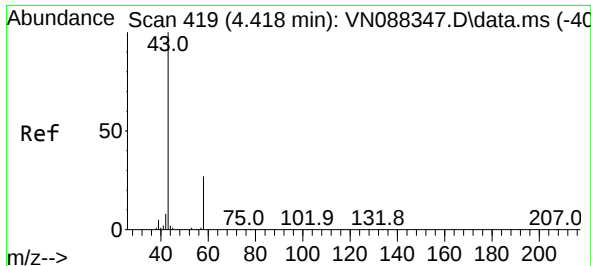
Tgt Ion:168 Resp: 201740
Ion Ratio Lower Upper
168 100
99 74.6 57.1 85.7



#11
Tert butyl alcohol
Concen: 3.318 ug/l
RT: 5.494 min Scan# 602
Delta R.T. -0.018 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Tgt Ion: 59 Resp: 2013
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

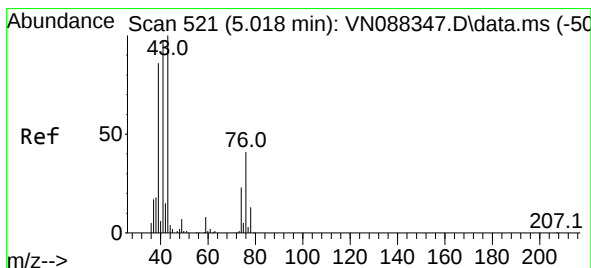
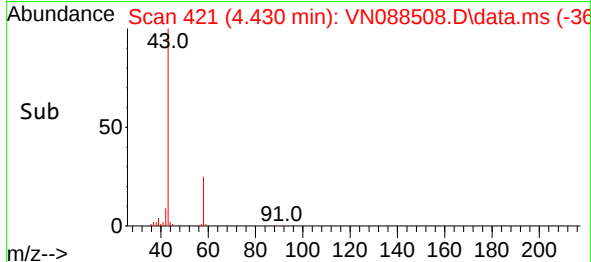
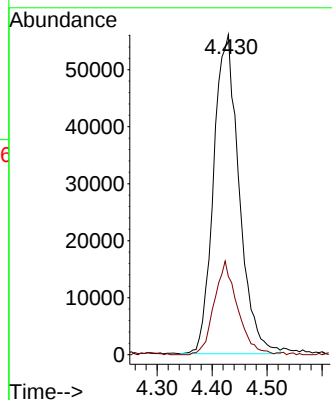
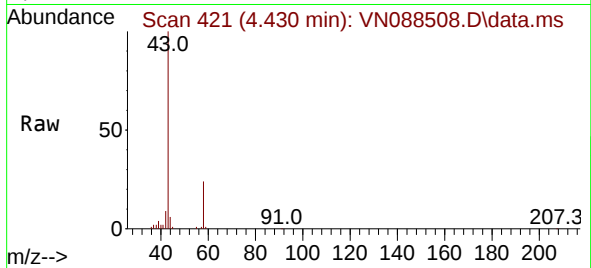




#16
Acetone
Concen: 131.643 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

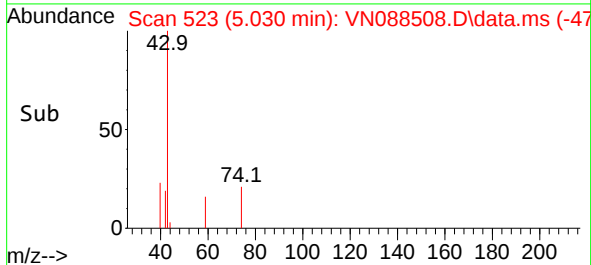
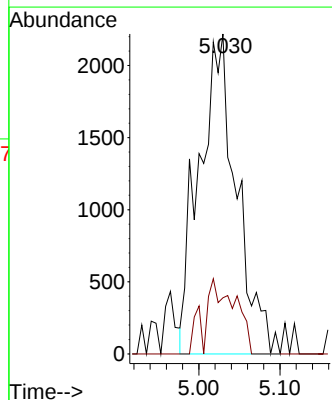
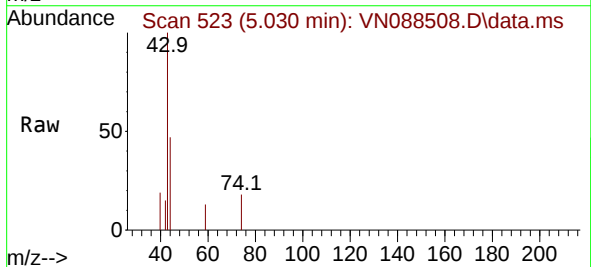
Instrument :
MSVOA_N
ClientSampleId :

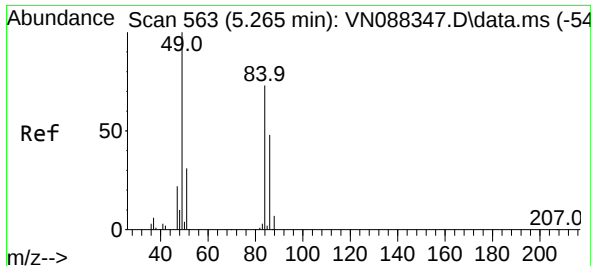
Tgt Ion: 43 Resp: 180932
Ion Ratio Lower Upper
43 100
58 24.5 21.7 32.5



#18
Methyl Acetate
Concen: 1.731 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

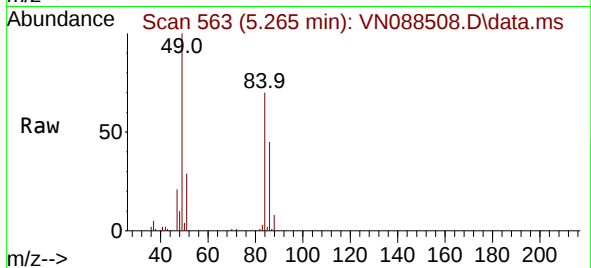
Tgt Ion: 43 Resp: 7081
Ion Ratio Lower Upper
43 100
74 16.5 17.9 26.9#



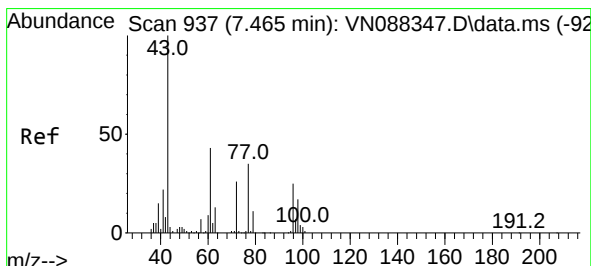
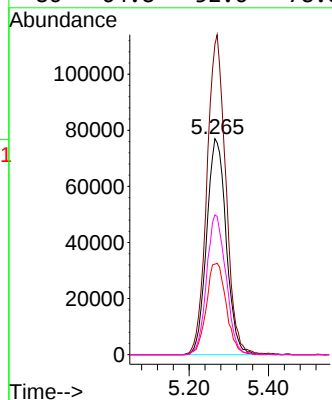
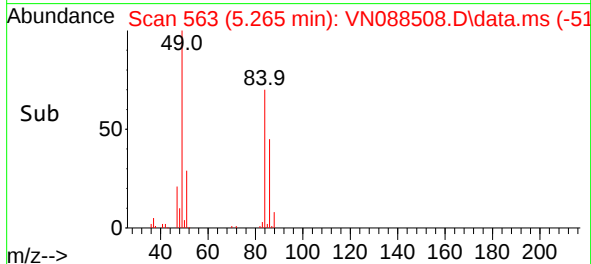


#20
Methylene Chloride
Concen: 89.707 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

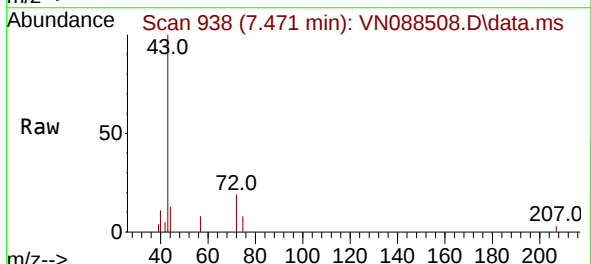
Instrument :
MSVOA_N
ClientSampleId :



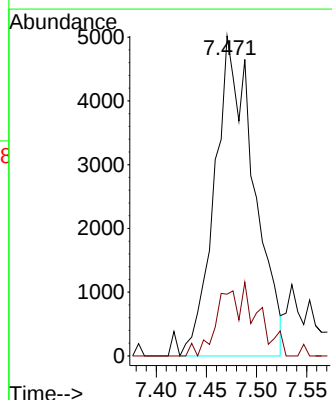
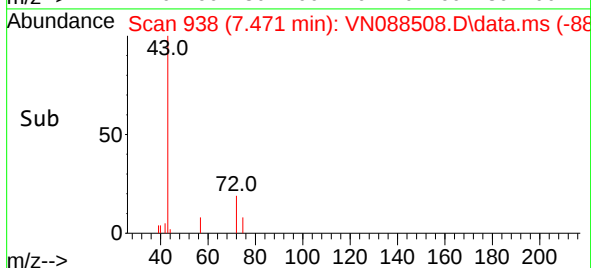
Tgt Ion: 84 Resp: 263791
Ion Ratio Lower Upper
84 100
49 143.6 110.2 165.2
51 41.9 34.1 51.1
86 64.8 52.6 78.8

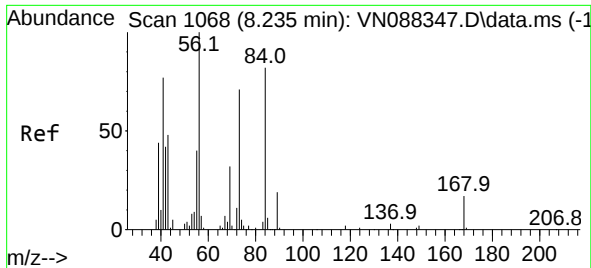


#25
2-Butanone
Concen: 6.156 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54



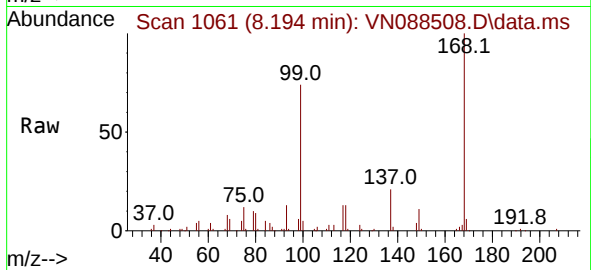
Tgt Ion: 43 Resp: 13603
Ion Ratio Lower Upper
43 100
72 19.3 20.5 30.7#



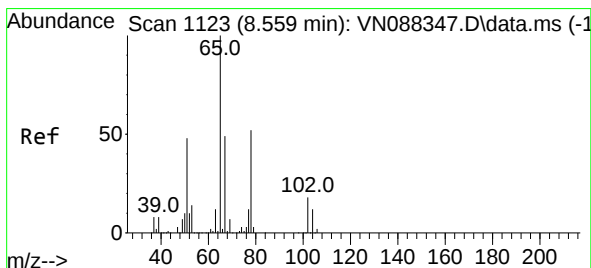
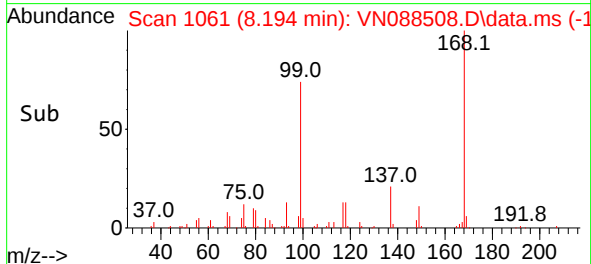
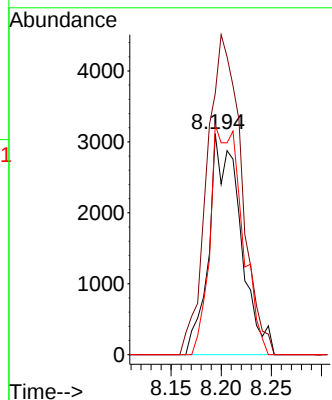


#31
Cyclohexane
Concen: 1.360 ug/l
RT: 8.194 min Scan# 1061
Delta R.T. -0.041 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :

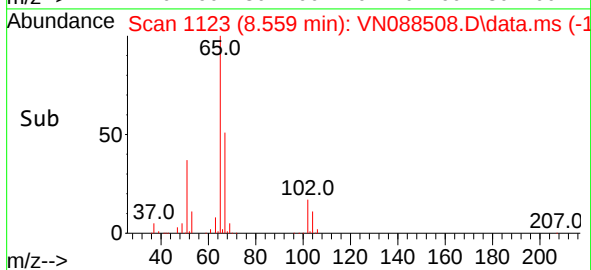
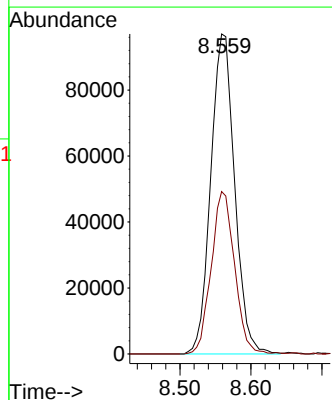
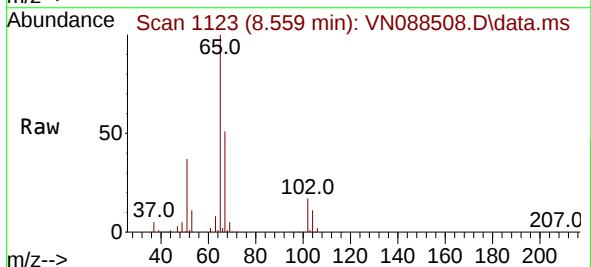


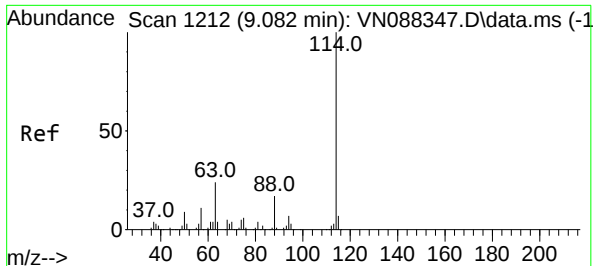
Tgt Ion: 56 Resp: 6798
Ion Ratio Lower Upper
56 100
69 118.2 25.3 37.9#
84 104.0 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 59.496 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Tgt Ion: 65 Resp: 226107
Ion Ratio Lower Upper
65 100
67 49.6 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088508.D

Acq: 10 Dec 2025 17:54

Instrument :

MSVOA_N

ClientSampleId :

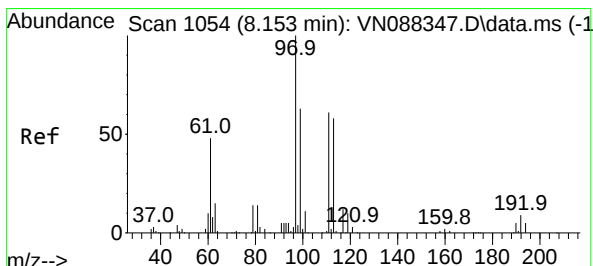
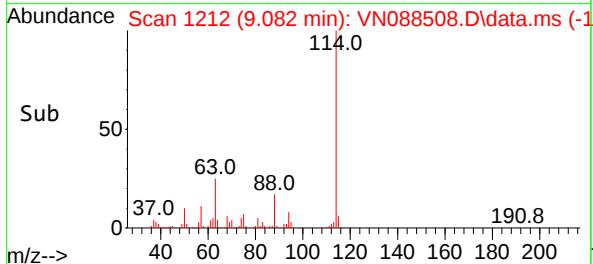
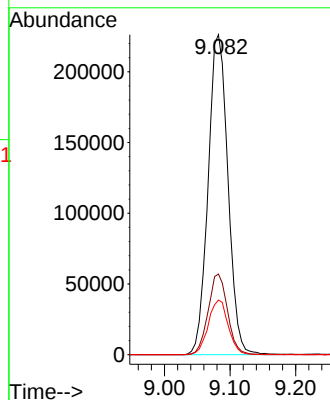
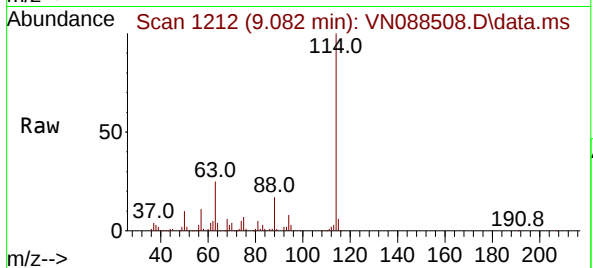
Tgt Ion:114 Resp: 476029

Ion Ratio Lower Upper

114 100

63 25.2 0.0 49.0

88 17.0 0.0 34.0



#35

Dibromofluoromethane

Concen: 49.107 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088508.D

Acq: 10 Dec 2025 17:54

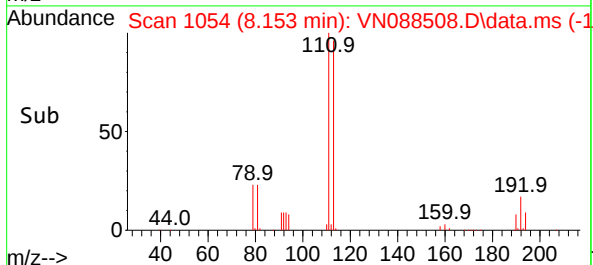
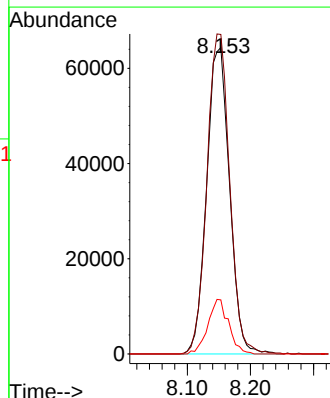
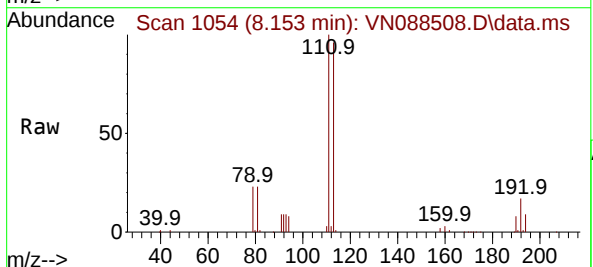
Tgt Ion:113 Resp: 161998

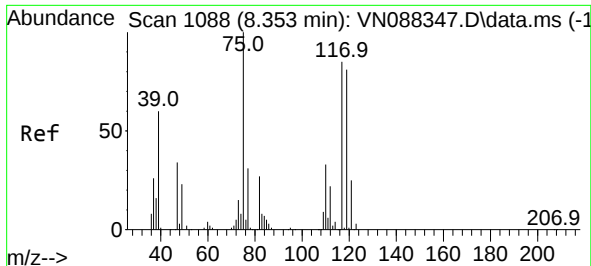
Ion Ratio Lower Upper

113 100

111 103.8 82.5 123.7

192 16.1 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.333 ug/l

RT: 8.212 min Scan# 1

Delta R.T. -0.141 min

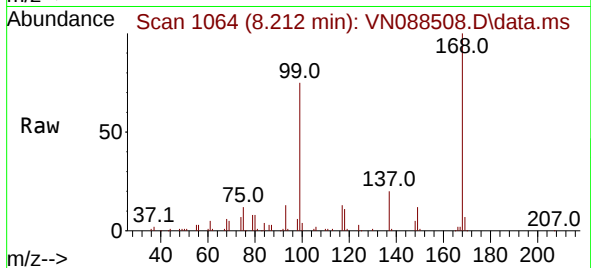
Lab File: VN088508.D

Acq: 10 Dec 2025 17:54

Instrument :

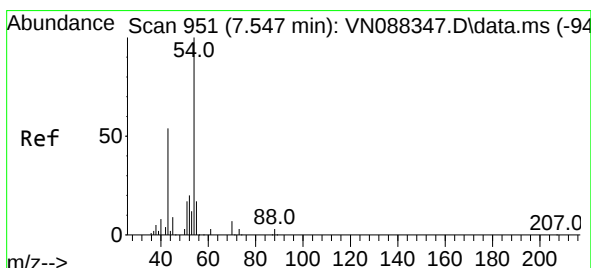
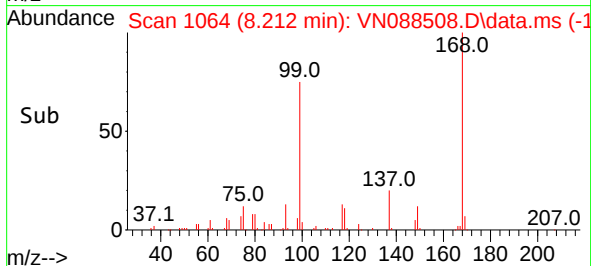
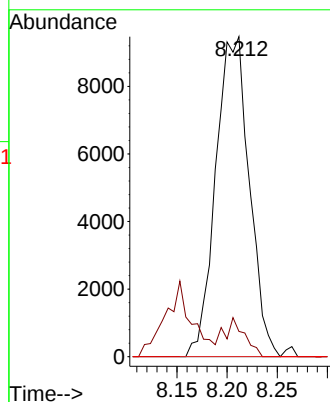
MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 22060

Ion	Ratio	Lower	Upper
75	100		
110	7.4	15.8	47.4#
77	0.0	24.2	36.2#



#37

Ethyl Acetate

Concen: 2.032 ug/l

RT: 7.471 min Scan# 938

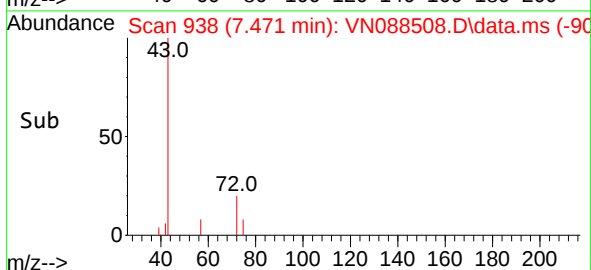
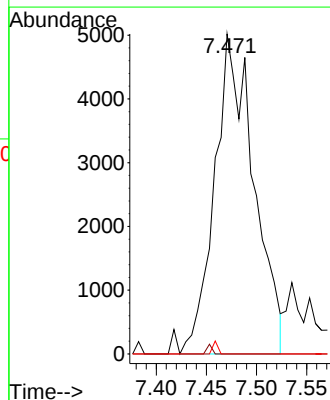
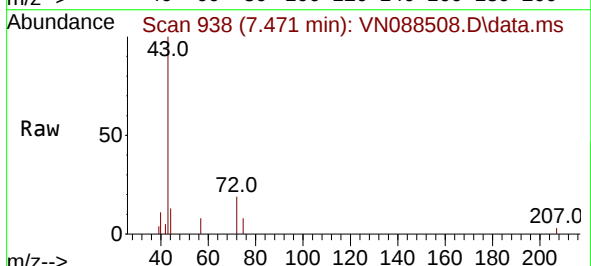
Delta R.T. -0.077 min

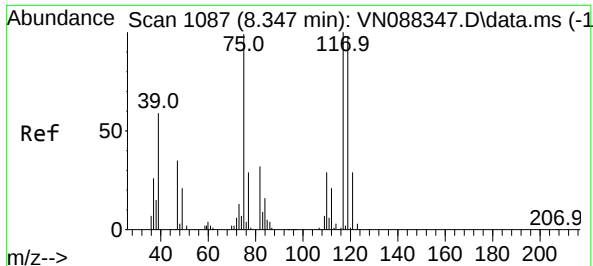
Lab File: VN088508.D

Acq: 10 Dec 2025 17:54

Tgt Ion: 43 Resp: 13603

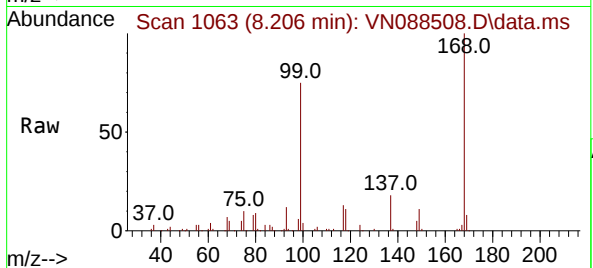
Ion	Ratio	Lower	Upper
43	100		
61	0.4	9.5	14.3#
70	0.5	7.1	10.7#



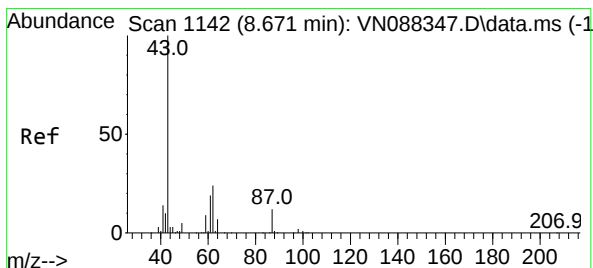
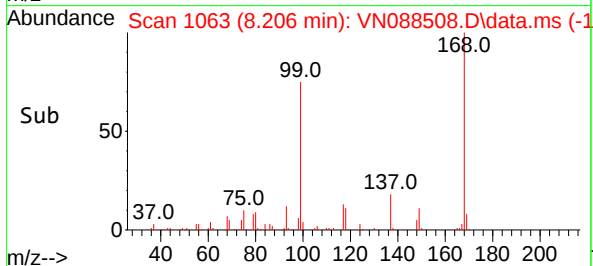
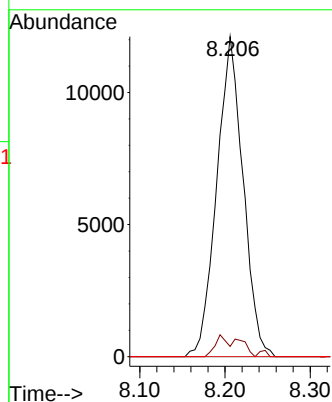


#38
Carbon Tetrachloride
Concen: 5.129 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.141 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :

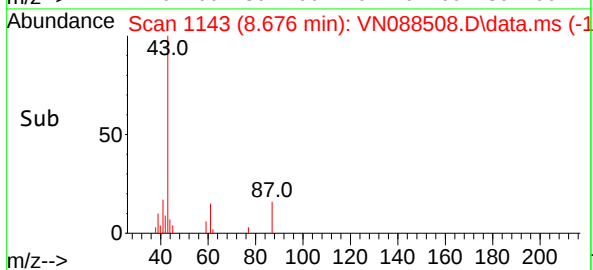
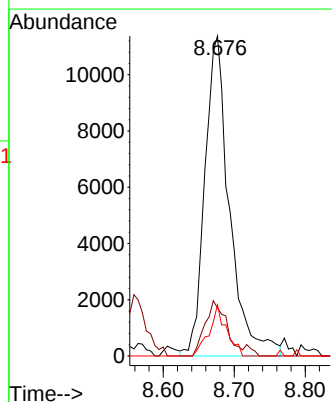
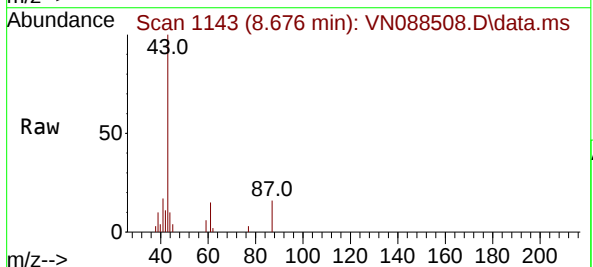


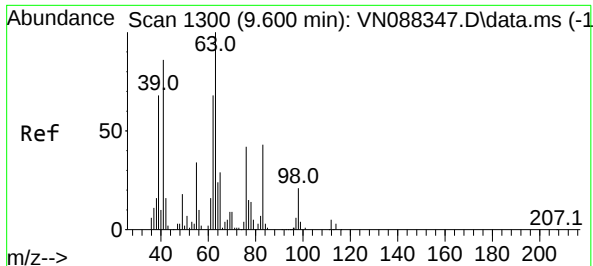
Tgt Ion:117 Resp: 25997
Ion Ratio Lower Upper
117 100
119 3.2 78.2 117.4#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 2.686 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Tgt Ion: 43 Resp: 27471
Ion Ratio Lower Upper
43 100
61 15.0 18.7 28.1#
87 11.2 9.1 13.7

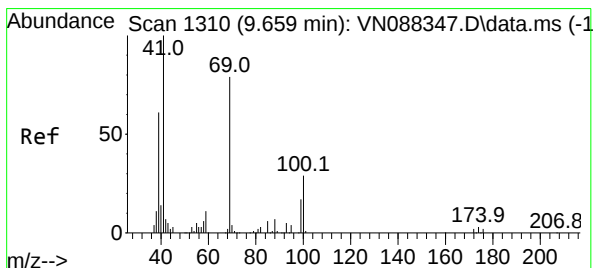
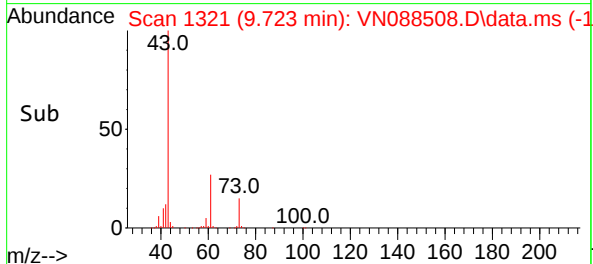
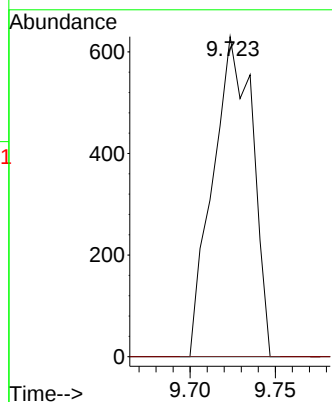
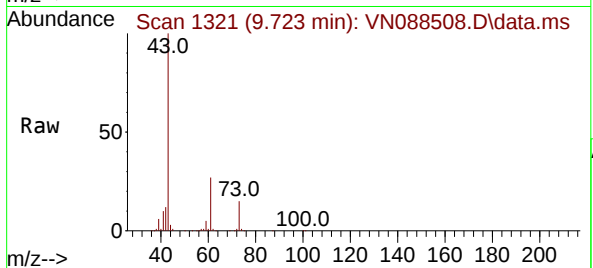




#45
1,2-Dichloropropane
Concen: 0.267 ug/l
RT: 9.723 min Scan# 1321
Delta R.T. 0.123 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

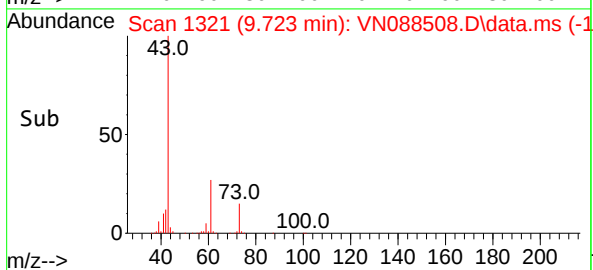
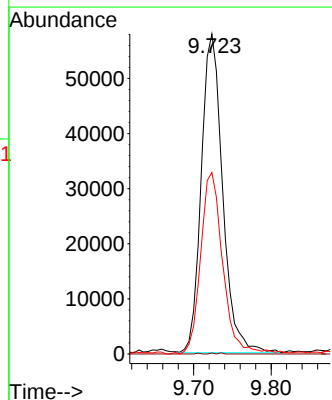
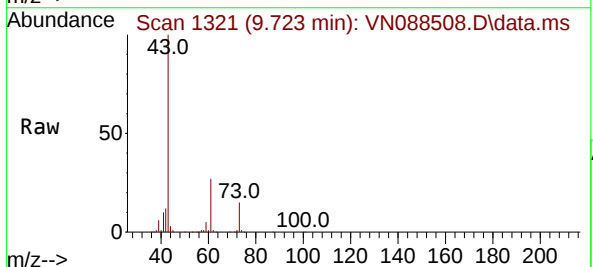
Instrument :
MSVOA_N
ClientSampleId :

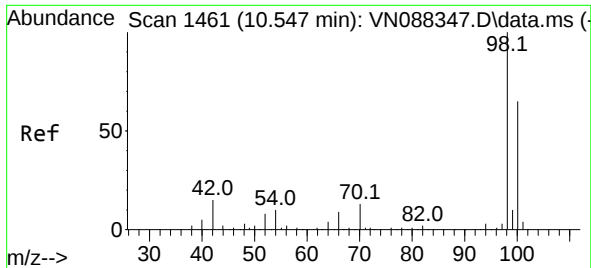
Tgt Ion: 63 Resp: 1022
Ion Ratio Lower Upper
63 100
65 0.0 23.0 34.4#



#48
Methyl methacrylate
Concen: 23.729 ug/l
RT: 9.723 min Scan# 1321
Delta R.T. 0.065 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Tgt Ion: 41 Resp: 110739
Ion Ratio Lower Upper
41 100
69 0.1 62.4 93.6#
39 59.1 52.6 79.0

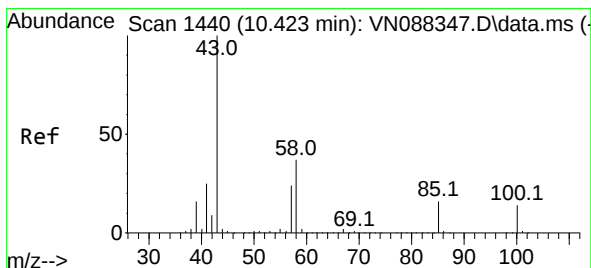
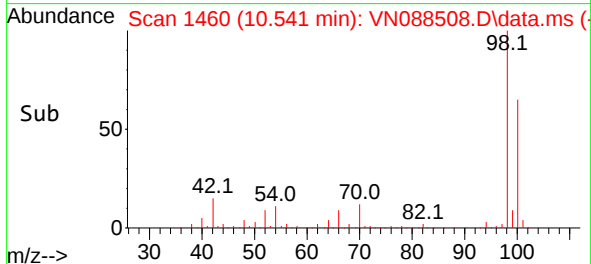
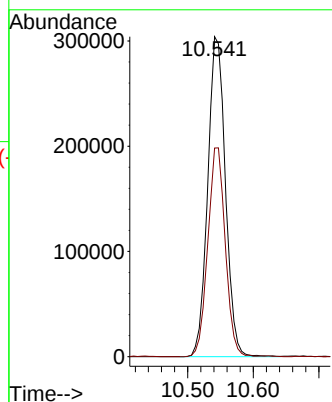
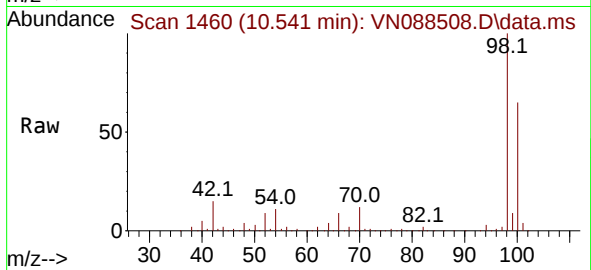




#50
Toluene-d8
Concen: 46.550 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

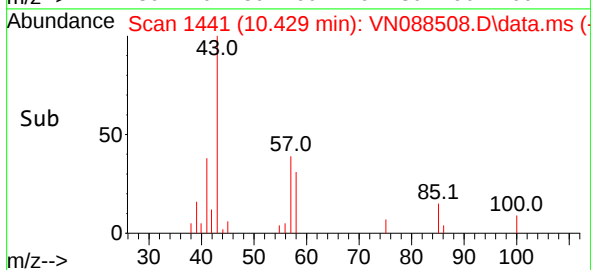
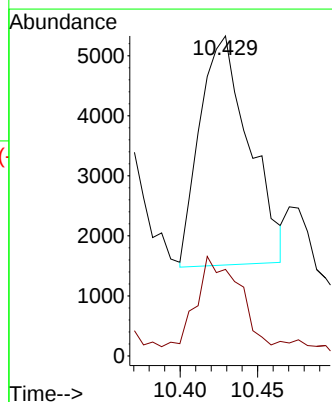
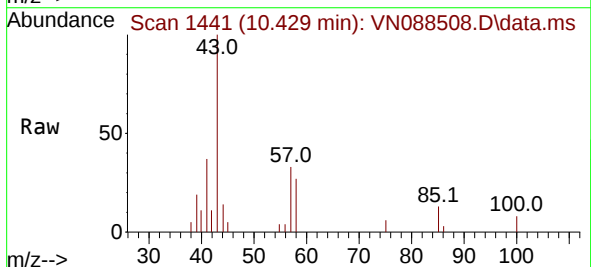
Instrument :
MSVOA_N
ClientSampleId :

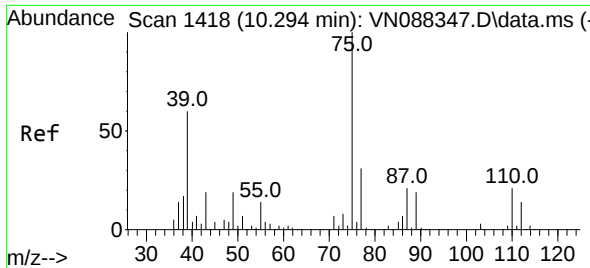
Tgt Ion: 98 Resp: 571374
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.402 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Tgt Ion: 43 Resp: 8450
Ion Ratio Lower Upper
43 100
58 35.1 29.1 43.7

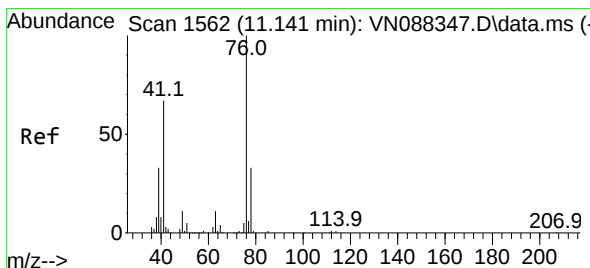
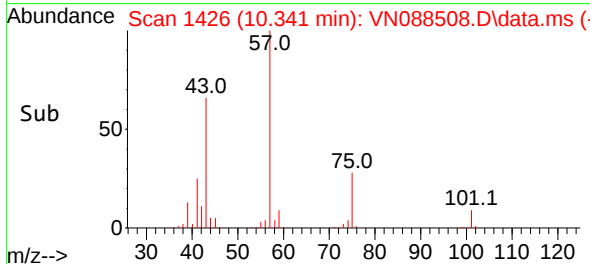
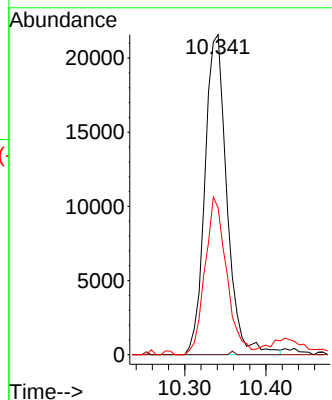
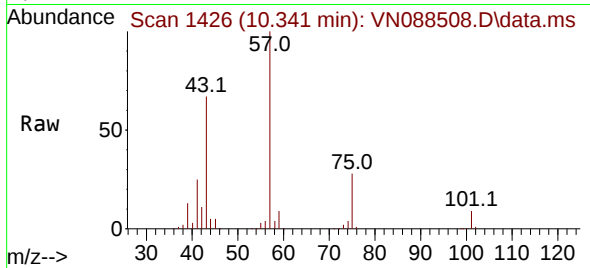




#54
 cis-1,3-Dichloropropene
 Concen: 6.755 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN088508.D
 Acq: 10 Dec 2025 17:54

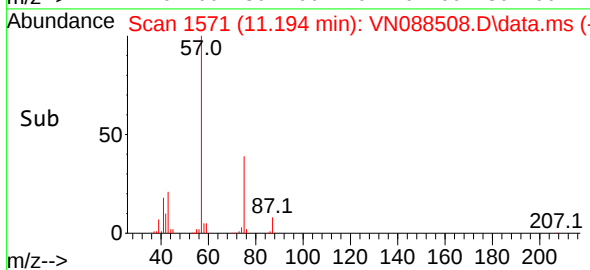
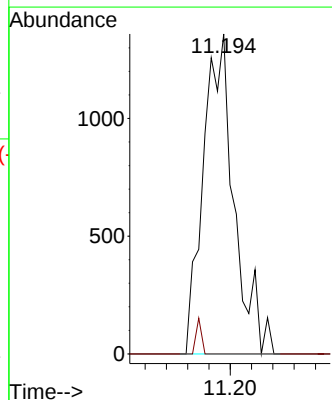
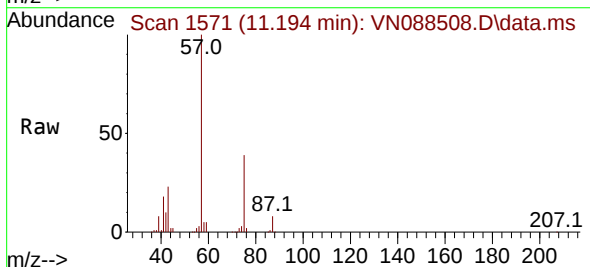
Instrument :
 MSVOA_N
 ClientSampleId :

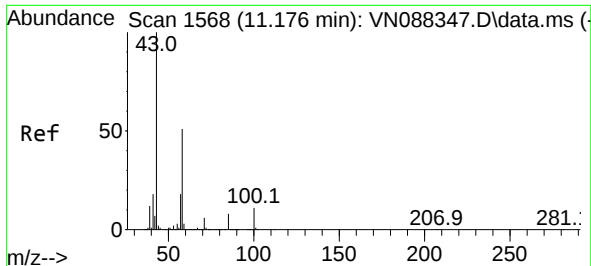
Tgt Ion: 75 Resp: 40647
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.5 36.7#
 39 46.0 48.3 72.5#



#57
 1,3-Dichloropropane
 Concen: 0.453 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.053 min
 Lab File: VN088508.D
 Acq: 10 Dec 2025 17:54

Tgt Ion: 76 Resp: 2726
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

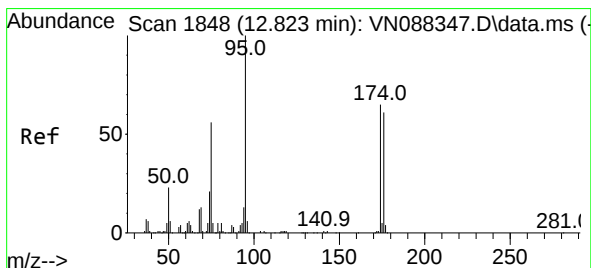
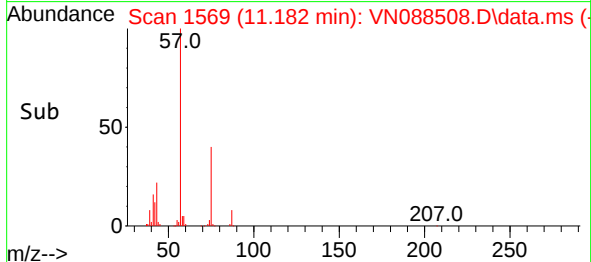
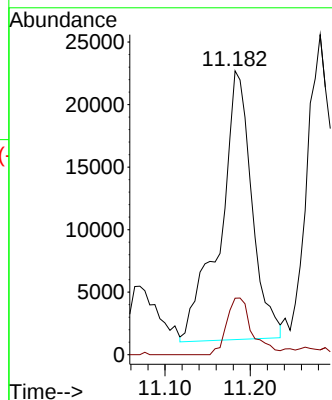
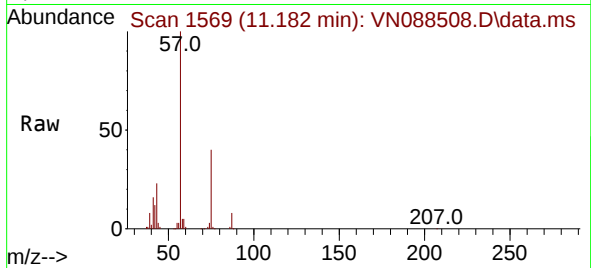




#59
2-Hexanone
Concen: 14.683 ug/l
RT: 11.182 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

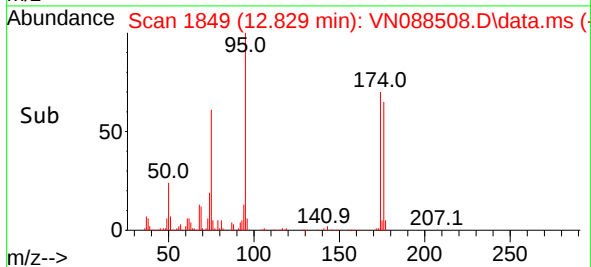
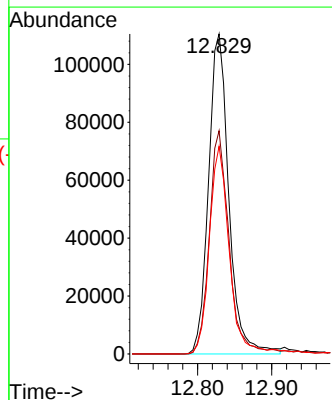
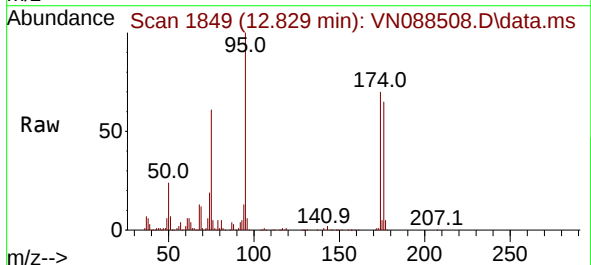
Instrument :
MSVOA_N
ClientSampleId :

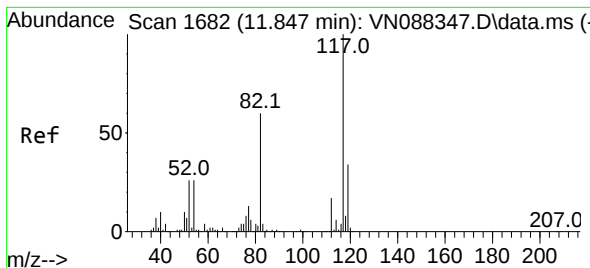
Tgt Ion: 43 Resp: 55763
Ion Ratio Lower Upper
43 100
58 16.8 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 49.926 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Tgt Ion: 95 Resp: 210265
Ion Ratio Lower Upper
95 100
174 68.7 0.0 139.0
176 64.5 0.0 132.4

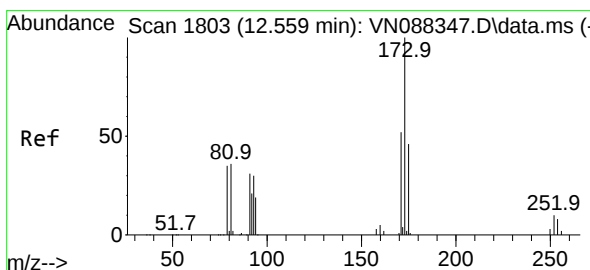
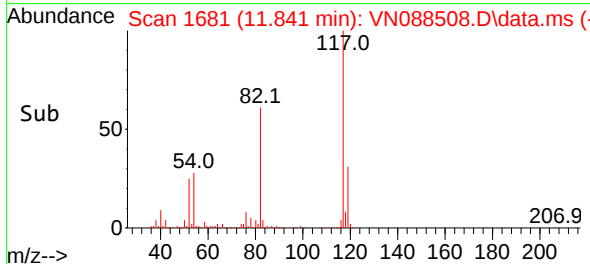
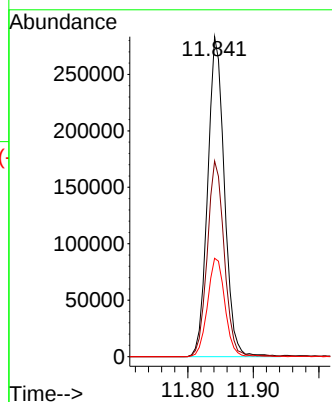
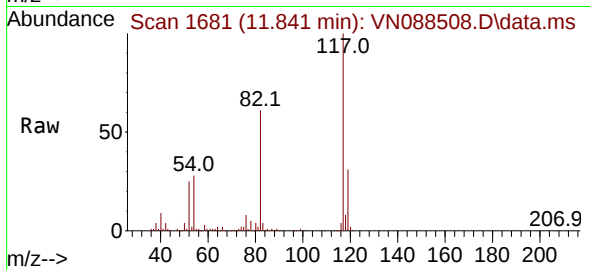




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

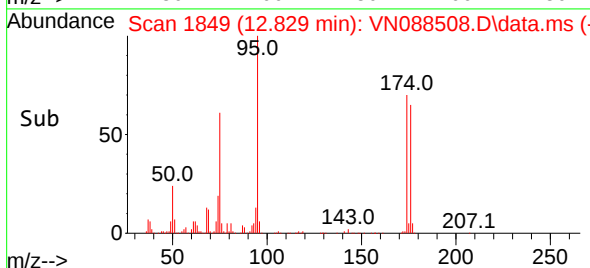
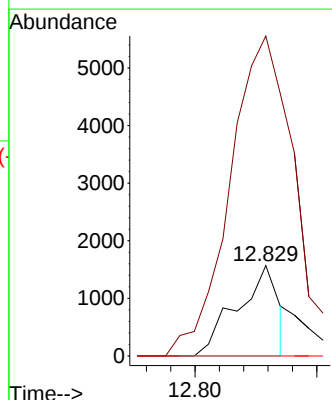
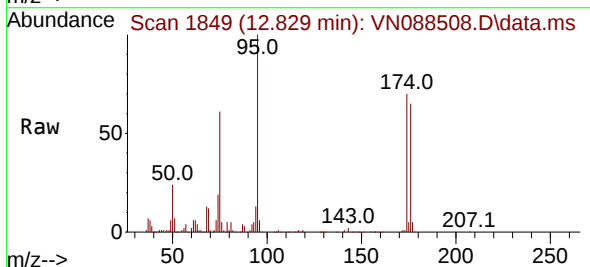
Instrument :
MSVOA_N
ClientSampleId :

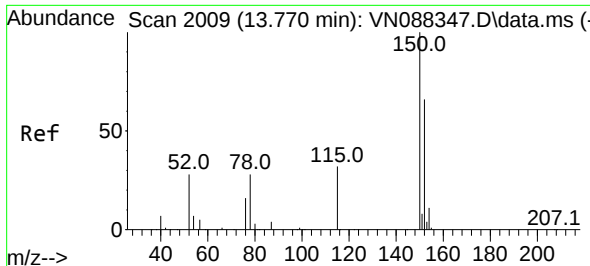
Tgt Ion:117 Resp: 503228
Ion Ratio Lower Upper
117 100
82 61.2 47.8 71.8
119 30.8 26.9 40.3



#71
Bromoform
Concen: 0.663 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

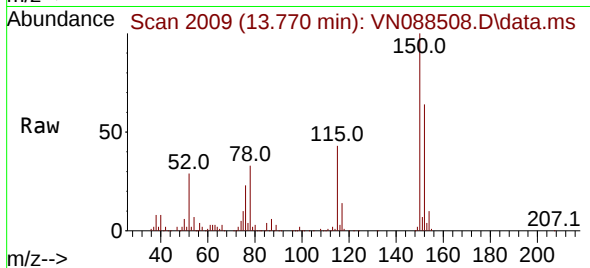
Tgt Ion:173 Resp: 1852
Ion Ratio Lower Upper
173 100
175 440.7 23.9 71.8#
254 0.0 0.1 0.1#



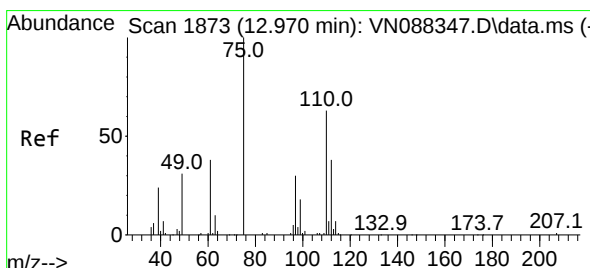
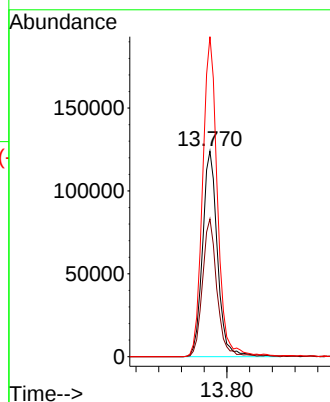
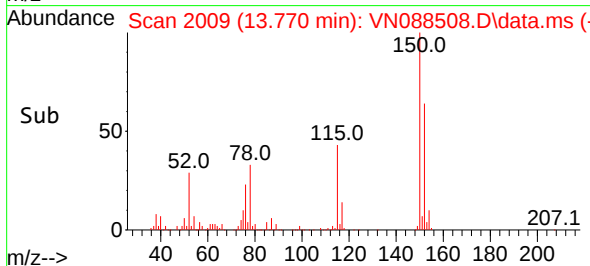


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :

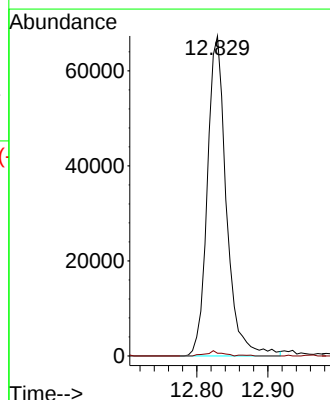
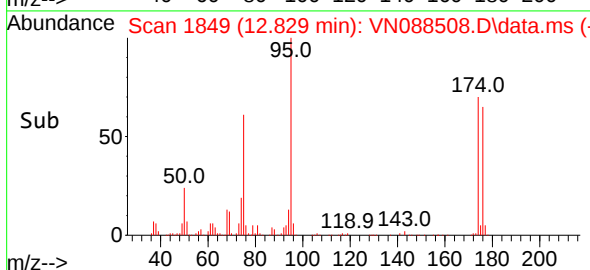
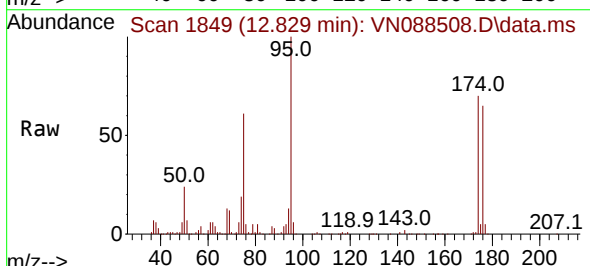


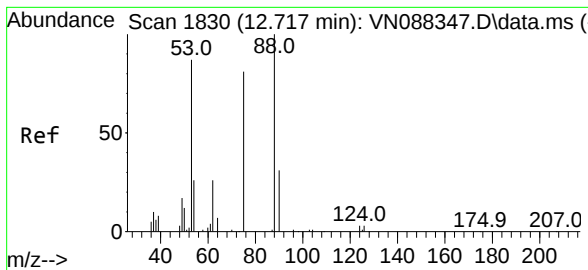
Tgt Ion:152 Resp: 226245
Ion Ratio Lower Upper
152 100
115 65.0 33.0 98.9
150 153.1 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 23.719 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088508.D
Acq: 10 Dec 2025 17:54

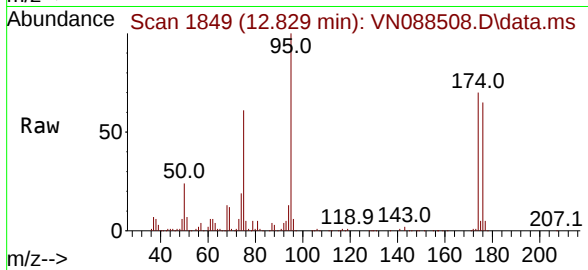
Tgt Ion: 75 Resp: 125687
Ion Ratio Lower Upper
75 100
77 1.3 87.2 261.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.289 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088508.D
 Acq: 10 Dec 2025 17:54

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 125687
 Ion Ratio Lower Upper
 75 100
 53 0.4 92.2 138.4#
 89 0.4 0.0 0.0#

