

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088378.D
 Acq On : 01 Dec 2025 13:32
 Operator : JC\MD
 Sample : Q3716-03 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 02 00:13:23 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

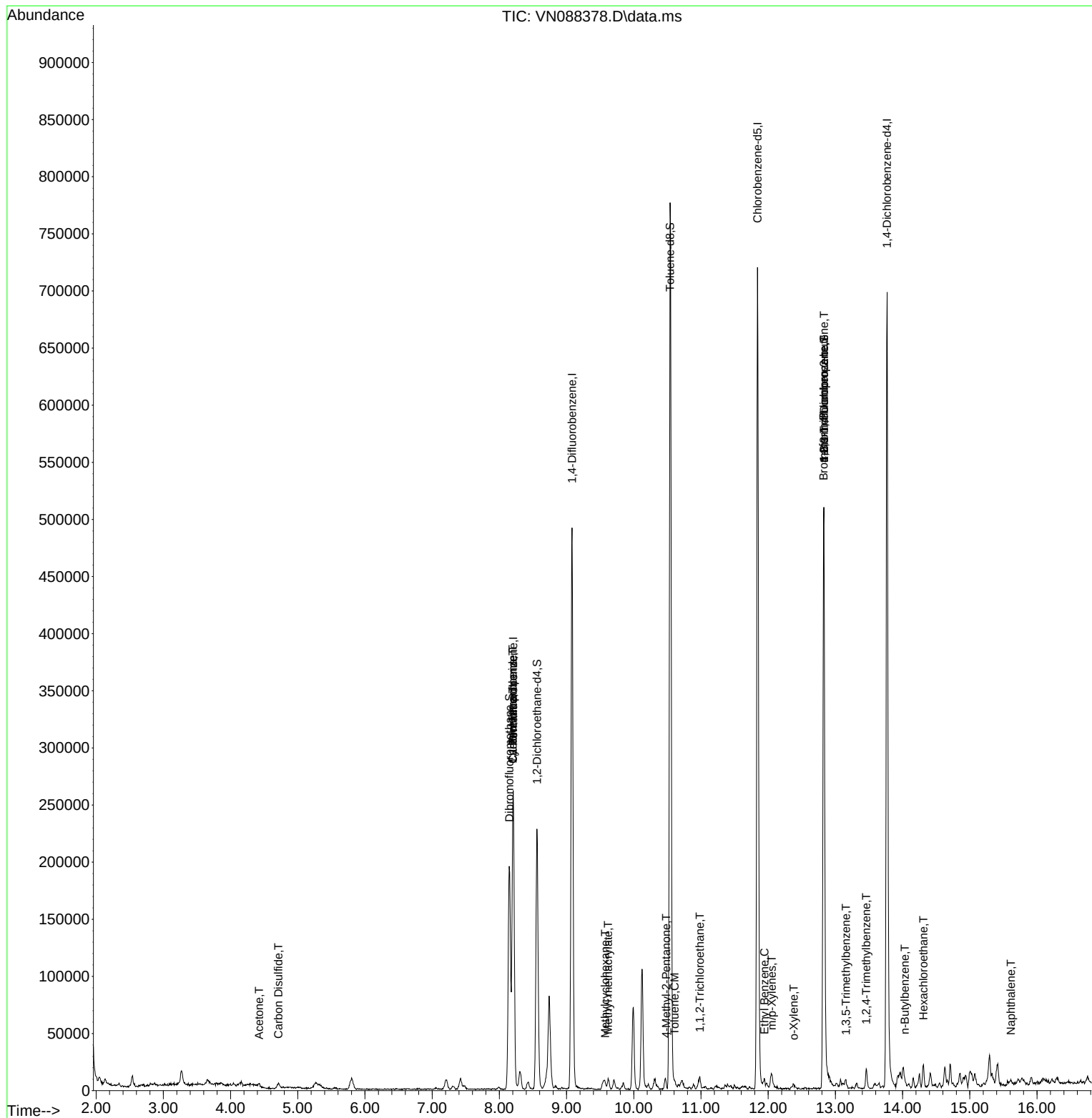
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	178970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	403564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	389624	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	188053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	189743	56.280	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 112.560%		
35) Dibromofluoromethane	8.147	113	142447	50.934	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.860%		
50) Toluene-d8	10.541	98	516518	49.637	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 99.280%		
62) 4-Bromofluorobenzene	12.829	95	188337	52.749	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 105.500%		
Target Compounds						Qvalue
16) Acetone	4.424	43	4154	3.407	ug/l #	77
17) Carbon Disulfide	4.712	76	3617	0.507	ug/l #	74
31) Cyclohexane	8.200	56	6404	1.444	ug/l #	59
36) 1,1-Dichloropropene	8.200	75	17460	4.045	ug/l #	52
38) Carbon Tetrachloride	8.200	117	20668	4.810	ug/l #	19
39) Methylcyclohexane	9.576	83	924	0.200	ug/l #	65
48) Methyl methacrylate	9.618	41	3014	0.762	ug/l #	40
51) 4-Methyl-2-Pentanone	10.482	43	1190	0.233	ug/l #	38
52) Toluene	10.606	92	2235	0.306	ug/l	84
55) 1,1,2-Trichloroethane	10.982	97	2725	0.963	ug/l #	19
67) Ethyl Benzene	11.947	91	3666	0.240	ug/l	93
68) m/p-Xylenes	12.053	106	4448	0.784	ug/l	96
69) o-Xylene	12.382	106	1262	0.233	ug/l	68
71) Bromoform	12.823	173	1341	0.620	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	110862	25.170	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.159	105	4832	0.419	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.829	75	110862	71.406	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.459	105	10569	0.923	ug/l	95
89) n-Butylbenzene	14.035	91	4153	0.371	ug/l #	67
90) Hexachloroethane	14.311	117	1716	0.814	ug/l #	20
95) Naphthalene	15.611	128	4025	0.335	ug/l #	84

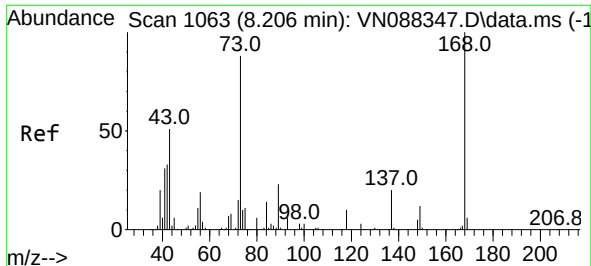
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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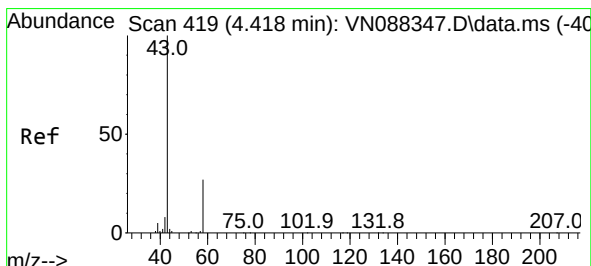
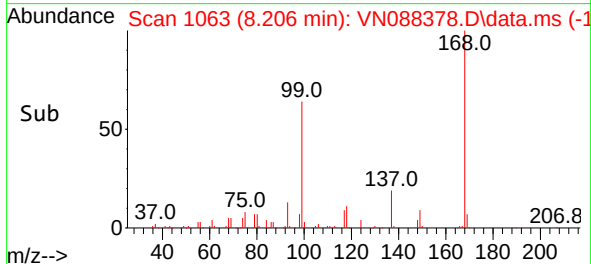
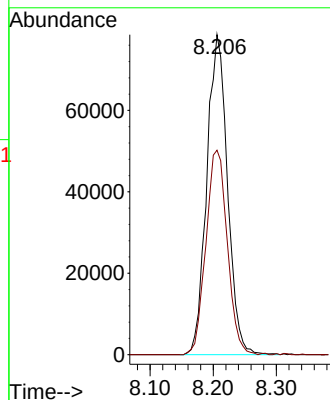
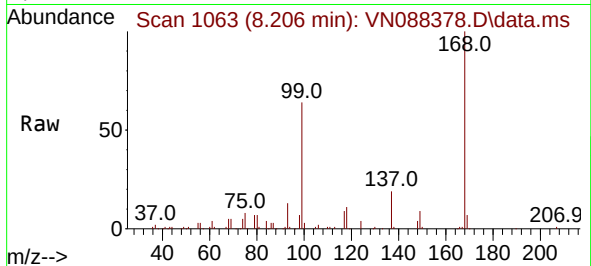




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

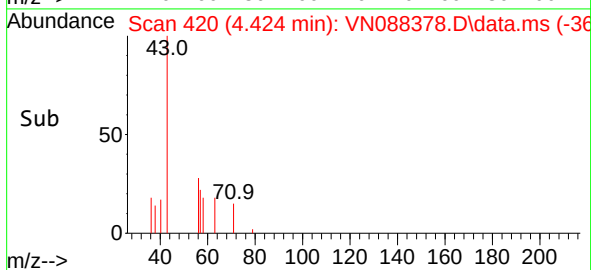
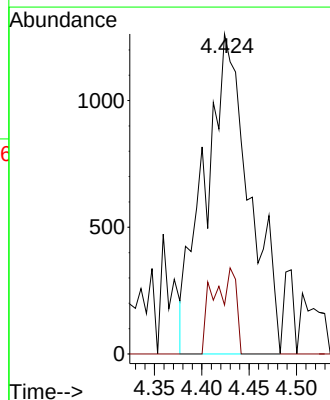
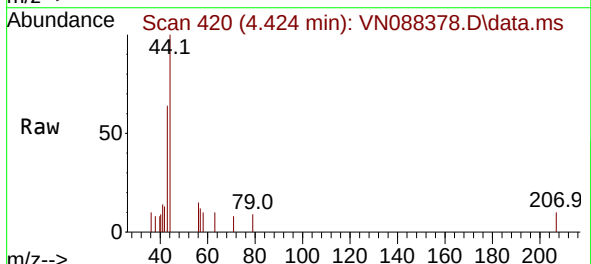
Instrument :
MSVOA_N
ClientSampleId :

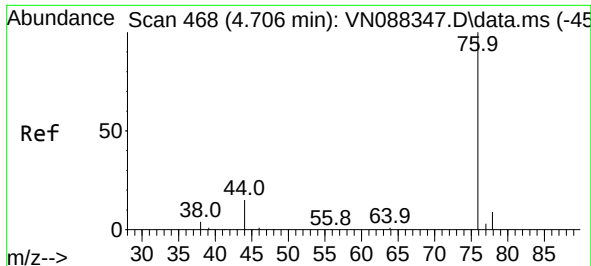
Tgt Ion:168 Resp: 178970
Ion Ratio Lower Upper
168 100
99 63.9 57.1 85.7



#16
Acetone
Concen: 3.407 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

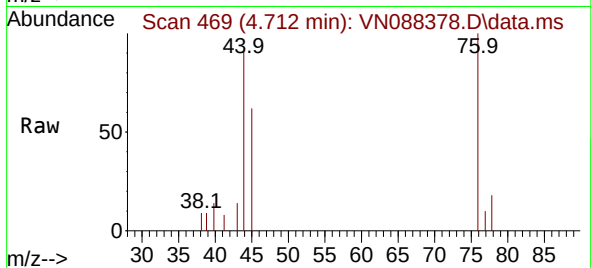
Tgt Ion: 43 Resp: 4154
Ion Ratio Lower Upper
43 100
58 15.3 21.7 32.5#



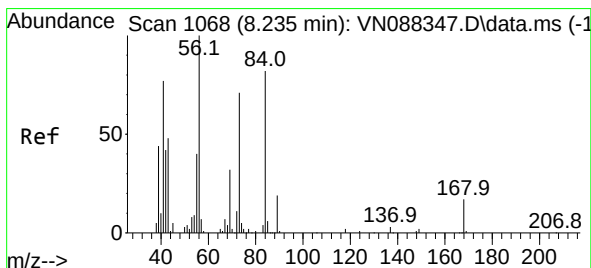
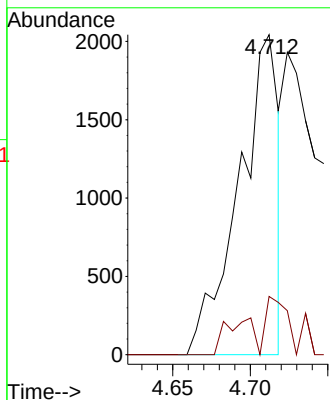
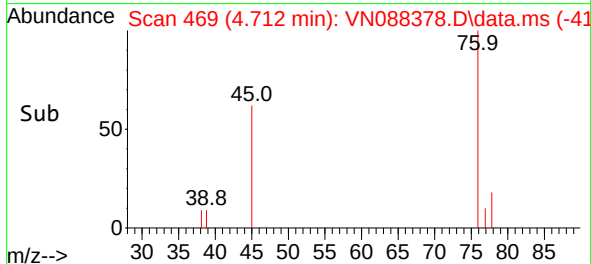


#17
Carbon Disulfide
Concen: 0.507 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

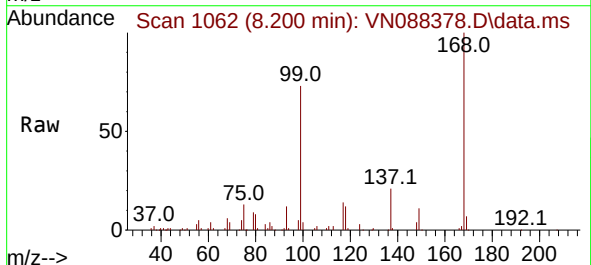
Instrument :
MSVOA_N
ClientSampleId :



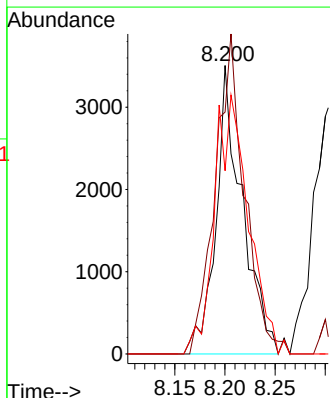
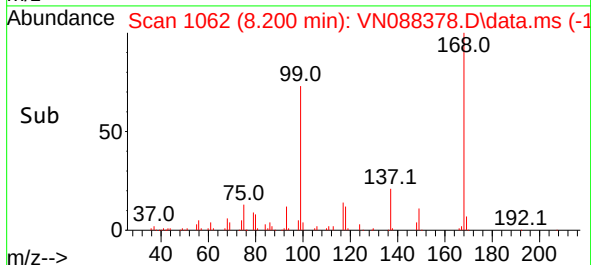
Tgt Ion: 76 Resp: 3617
Ion Ratio Lower Upper
76 100
78 18.2 7.0 10.4#

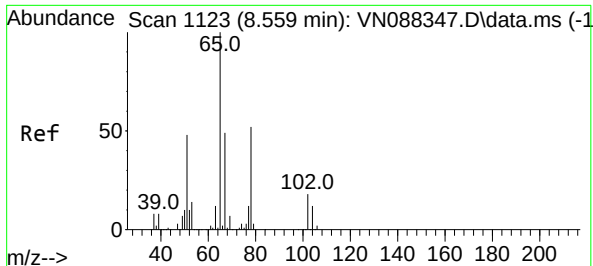


#31
Cyclohexane
Concen: 1.444 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32



Tgt Ion: 56 Resp: 6404
Ion Ratio Lower Upper
56 100
69 83.9 25.3 37.9#
84 63.5 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 56.280 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088378.D

Acq: 01 Dec 2025 13:32

Instrument :

MSVOA_N

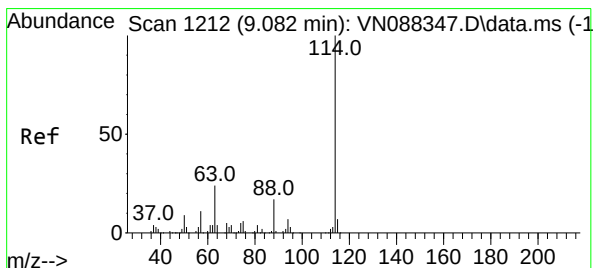
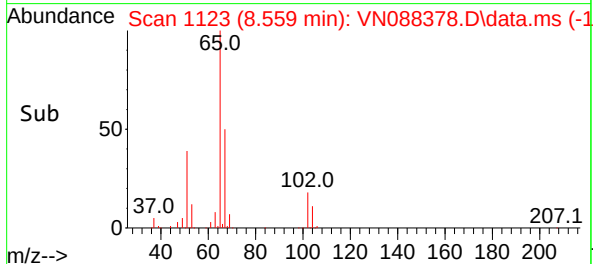
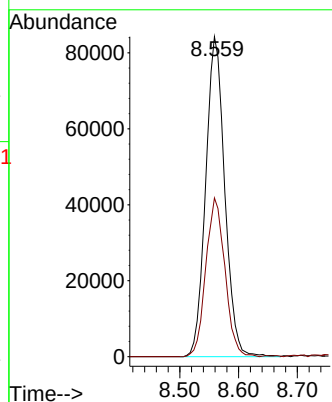
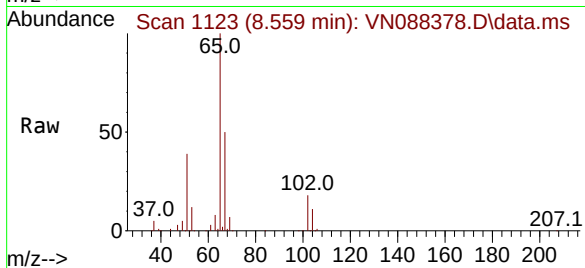
ClientSampleId :

Tgt Ion: 65 Resp: 189743

Ion Ratio Lower Upper

65 100

67 49.7 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: VN088378.D

Acq: 01 Dec 2025 13:32

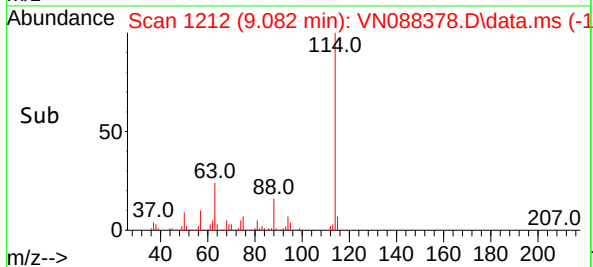
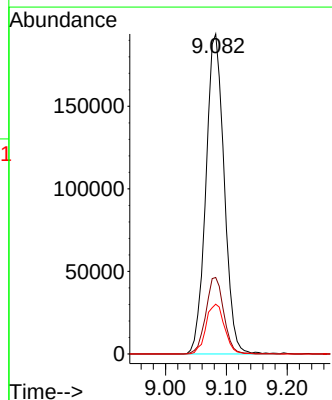
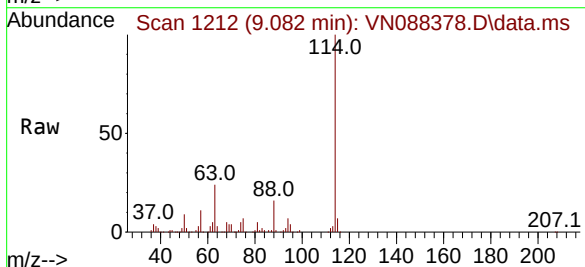
Tgt Ion: 114 Resp: 403564

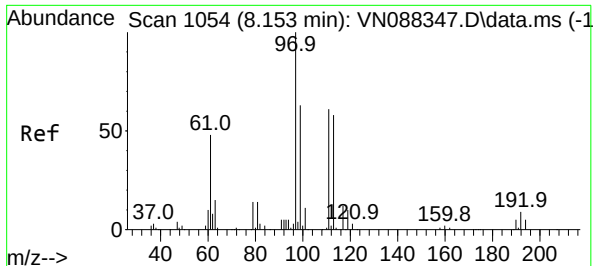
Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.0

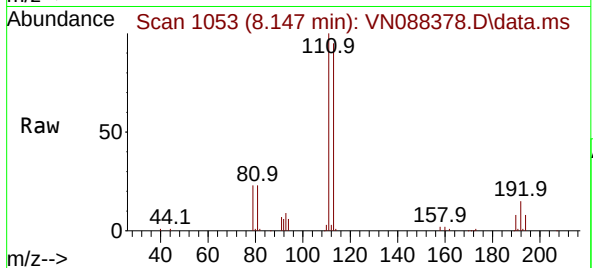
88 15.5 0.0 34.0



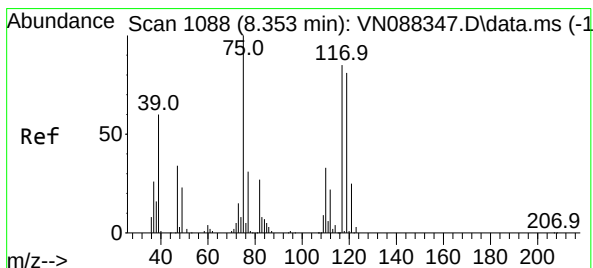
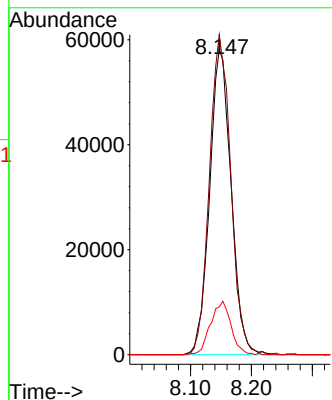
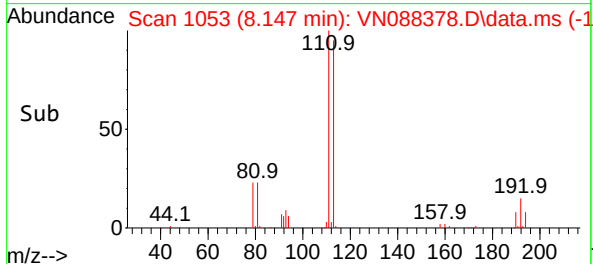


#35
Dibromofluoromethane
Concen: 50.934 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

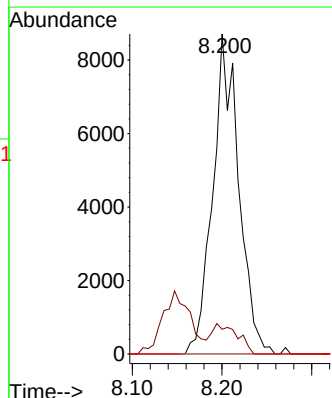
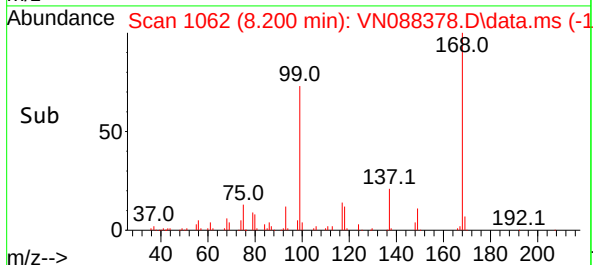
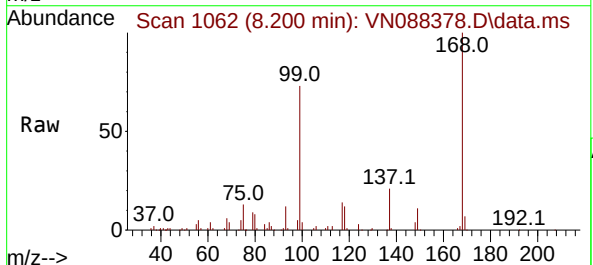


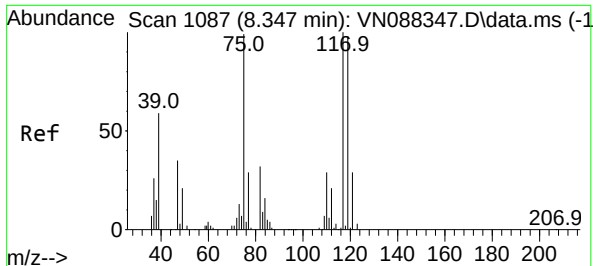
Tgt Ion:113 Resp: 142447
Ion Ratio Lower Upper
113 100
111 104.4 82.5 123.7
192 16.7 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.045 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

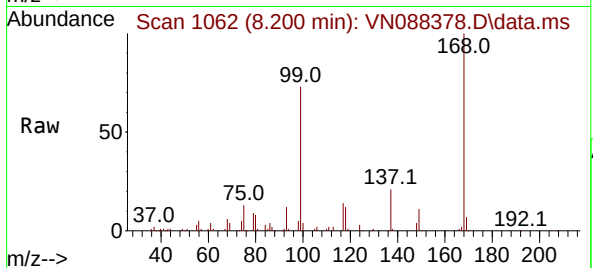
Tgt Ion: 75 Resp: 17460
Ion Ratio Lower Upper
75 100
110 9.3 15.8 47.4#
77 0.0 24.2 36.2#



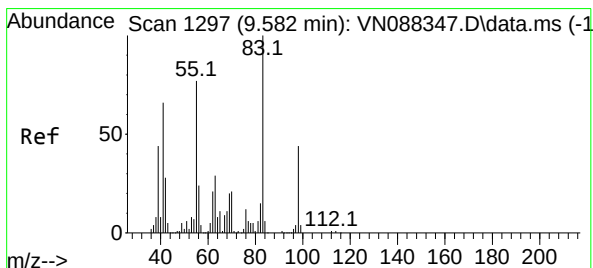
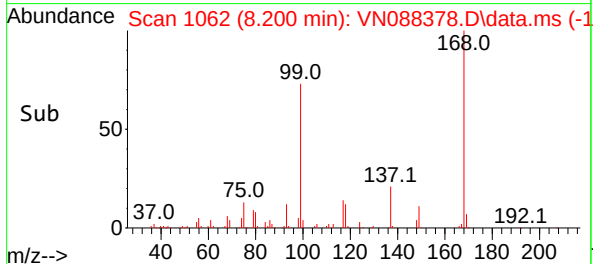
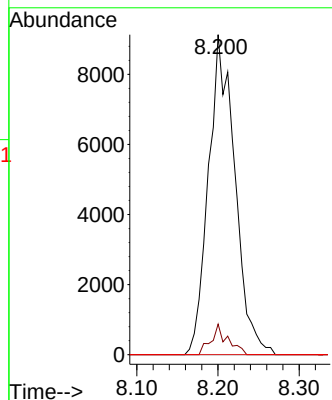


#38
Carbon Tetrachloride
Concen: 4.810 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.147 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

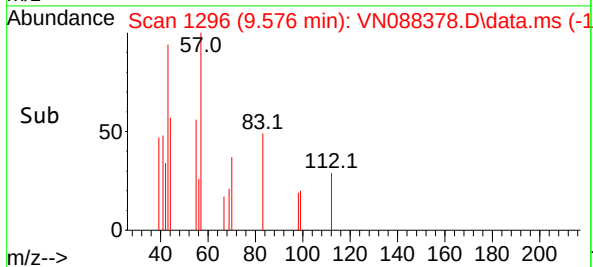
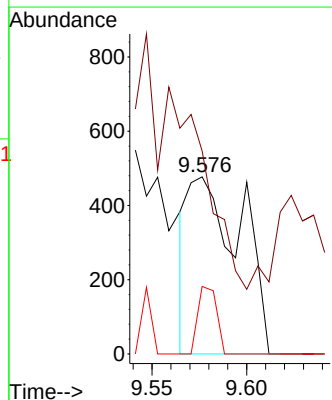
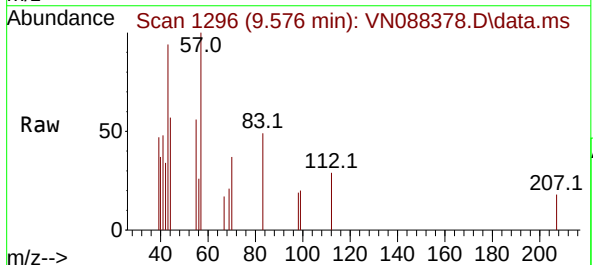


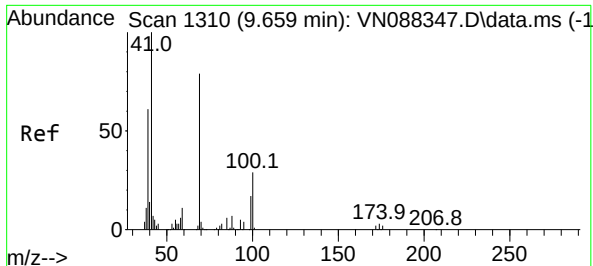
Tgt Ion:117 Resp: 20668
Ion Ratio Lower Upper
117 100
119 9.6 78.2 117.4#
121 0.0 23.4 35.2#



#39
Methylcyclohexane
Concen: 0.200 ug/l
RT: 9.576 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Tgt Ion: 83 Resp: 924
Ion Ratio Lower Upper
83 100
55 34.6 61.6 92.4#
98 38.2 35.3 52.9





#48

Methyl methacrylate

Concen: 0.762 ug/l

RT: 9.618 min Scan# 11

Delta R.T. -0.041 min

Lab File: VN088378.D

Acq: 01 Dec 2025 13:32

Instrument :

MSVOA_N

ClientSampleId :

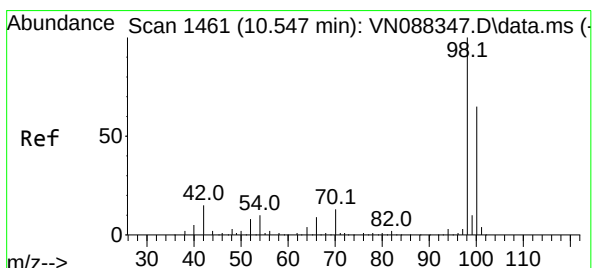
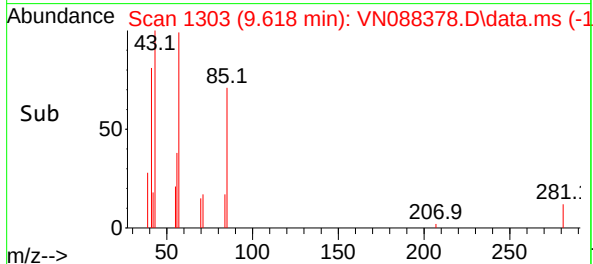
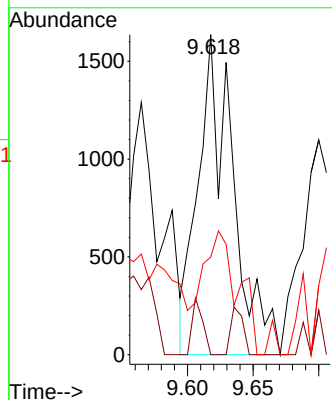
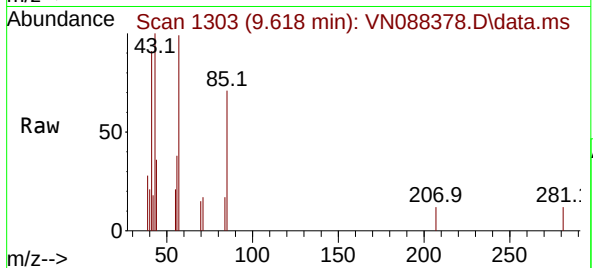
Tgt Ion: 41 Resp: 3014

Ion Ratio Lower Upper

41 100

69 5.2 62.4 93.6#

39 40.3 52.6 79.0#



#50

Toluene-d8

Concen: 49.637 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088378.D

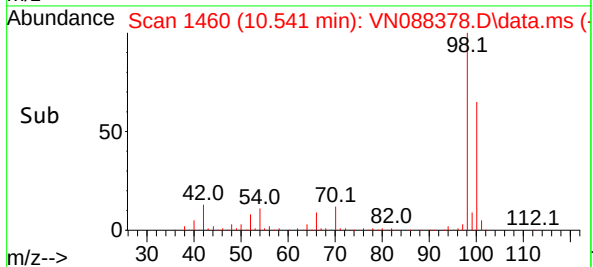
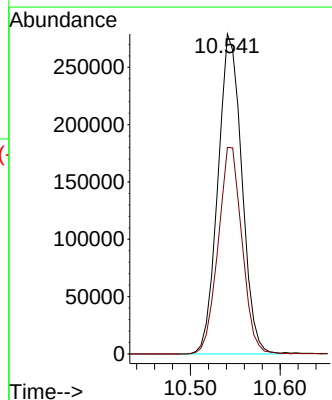
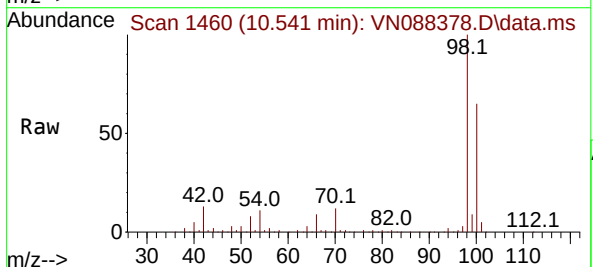
Acq: 01 Dec 2025 13:32

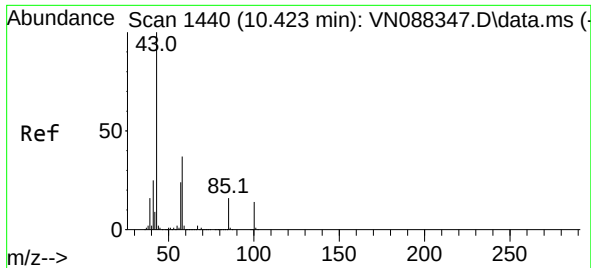
Tgt Ion: 98 Resp: 516518

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2

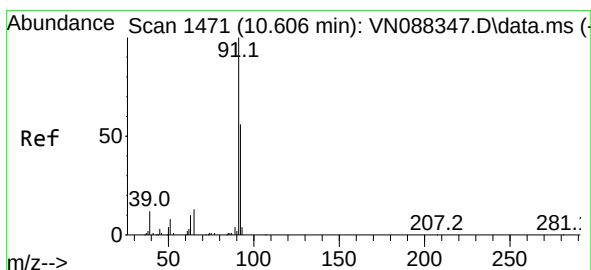
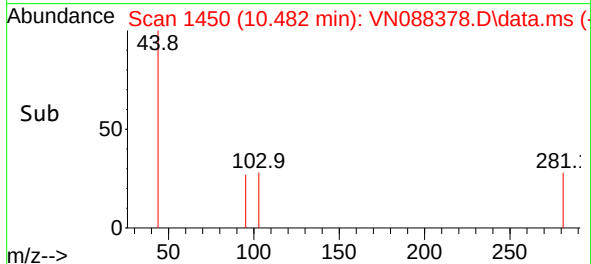
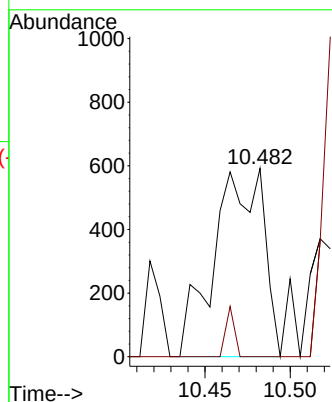
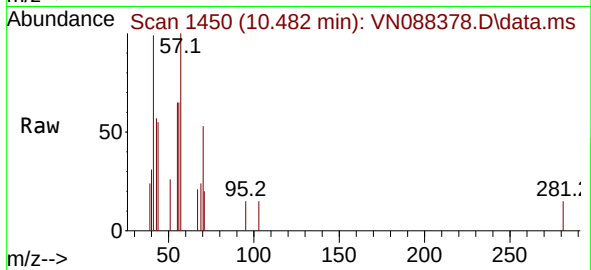




#51
4-Methyl-2-Pentanone
Concen: 0.233 ug/l
RT: 10.482 min Scan# 1440
Delta R.T. 0.059 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

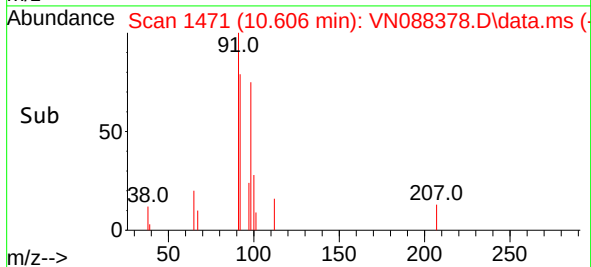
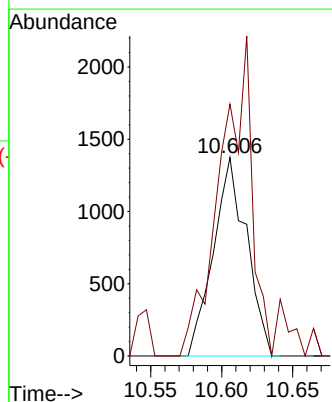
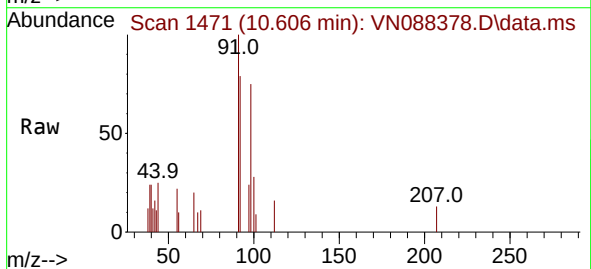
Instrument :
MSVOA_N
ClientSampleId :

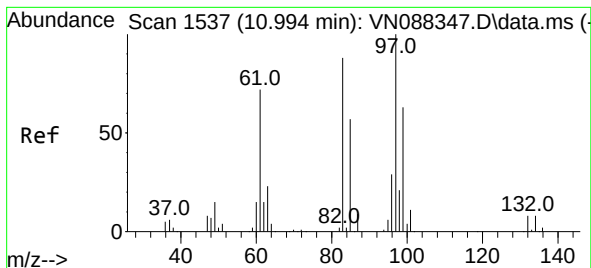
Tgt Ion: 43 Resp: 1190
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#



#52
Toluene
Concen: 0.306 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

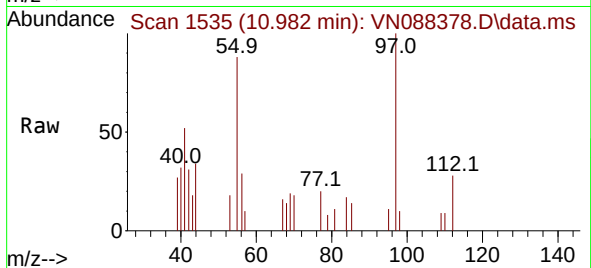
Tgt Ion: 92 Resp: 2235
Ion Ratio Lower Upper
92 100
91 152.9 140.2 210.2



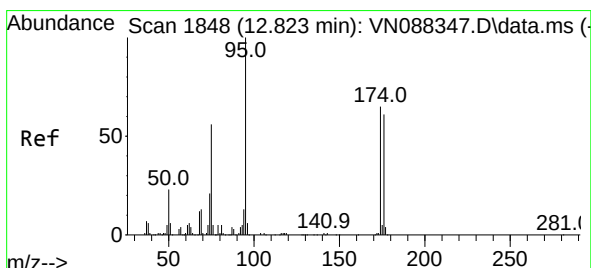
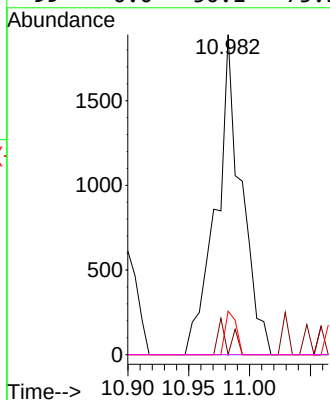
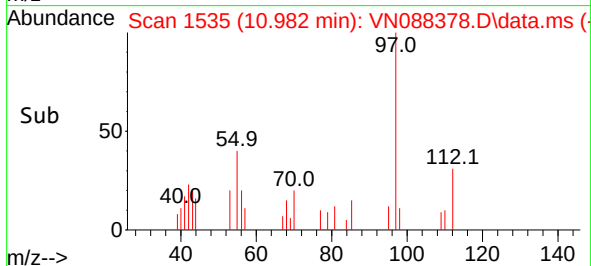


#55
 1,1,2-Trichloroethane
 Concen: 0.963 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. -0.012 min
 Lab File: VN088378.D
 Acq: 01 Dec 2025 13:32

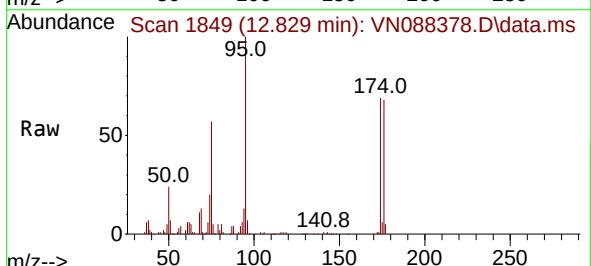
Instrument :
 MSVOA_N
 ClientSampleId :



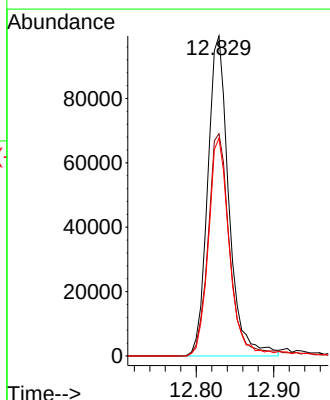
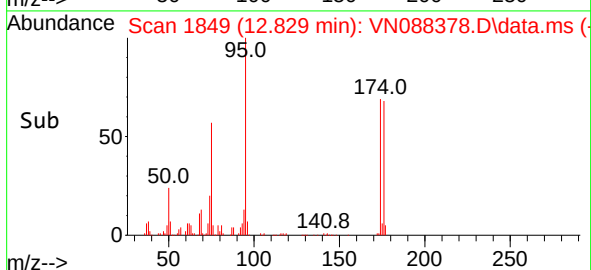
Tgt Ion: 97	Resp: 2725
Ion Ratio	Lower Upper
97 100	
83 0.0	70.4 105.6#
85 13.6	45.4 68.2#
99 0.0	50.1 75.1#

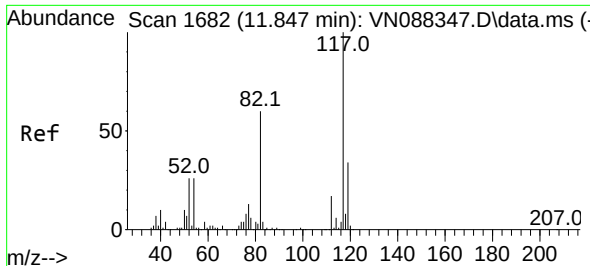


#62
 4-Bromofluorobenzene
 Concen: 52.749 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.006 min
 Lab File: VN088378.D
 Acq: 01 Dec 2025 13:32



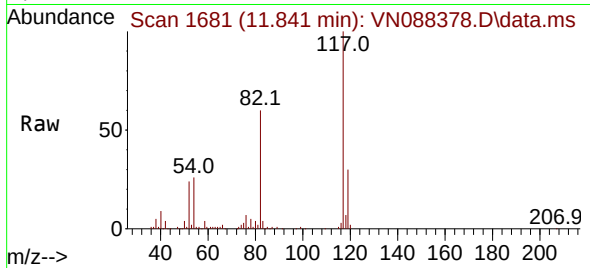
Tgt Ion: 95	Resp: 188337
Ion Ratio	Lower Upper
95 100	
174 72.1	0.0 139.0
176 67.3	0.0 132.4



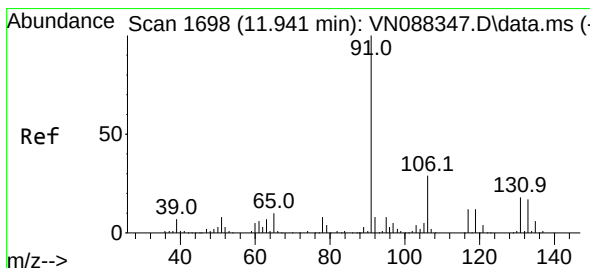
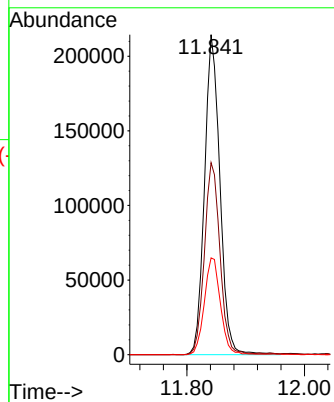
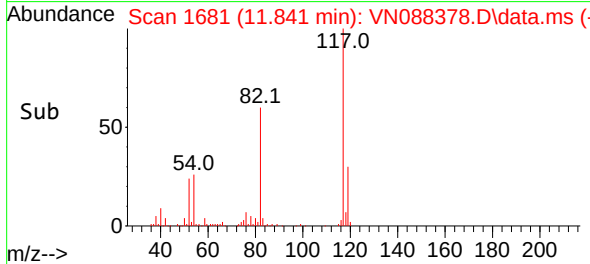


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

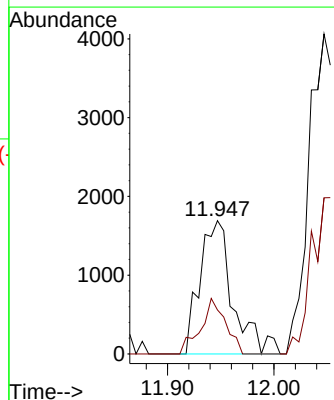
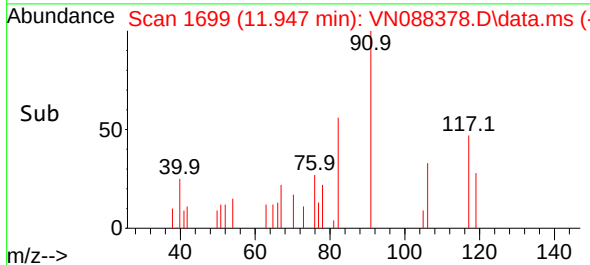
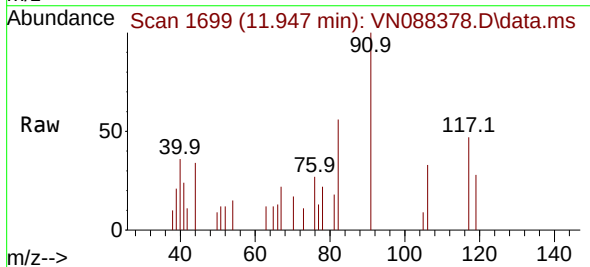


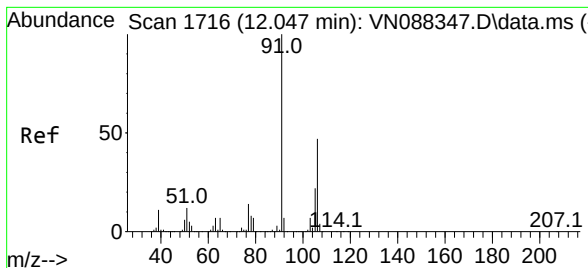
Tgt Ion:117 Resp: 389624
Ion Ratio Lower Upper
117 100
82 60.0 47.8 71.8
119 30.2 26.9 40.3



#67
Ethyl Benzene
Concen: 0.240 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Tgt Ion: 91 Resp: 3666
Ion Ratio Lower Upper
91 100
106 33.0 23.6 35.4

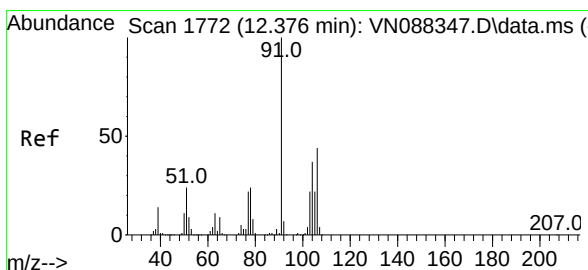
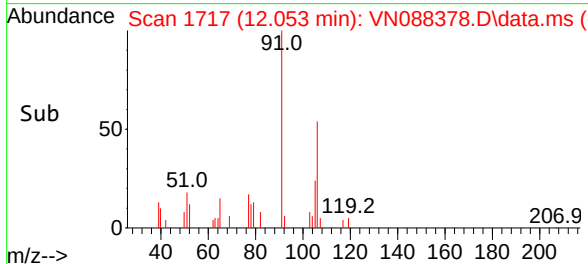
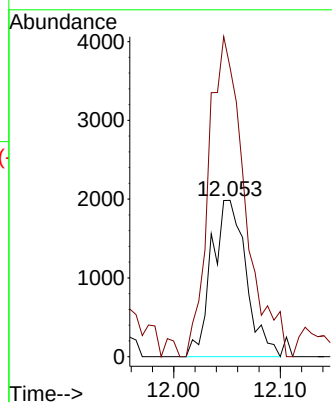
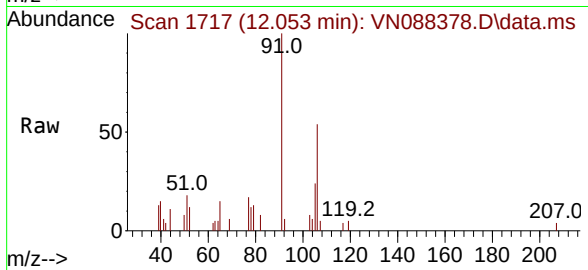




#68
m/p-Xylenes
Concen: 0.784 ug/l
RT: 12.053 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

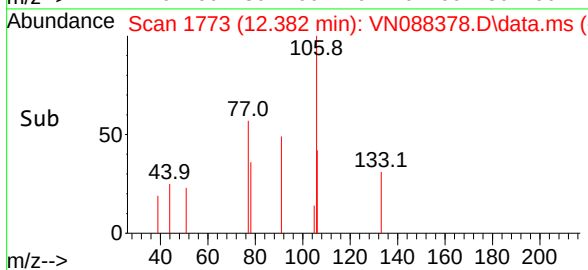
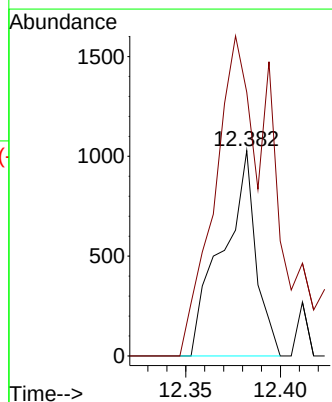
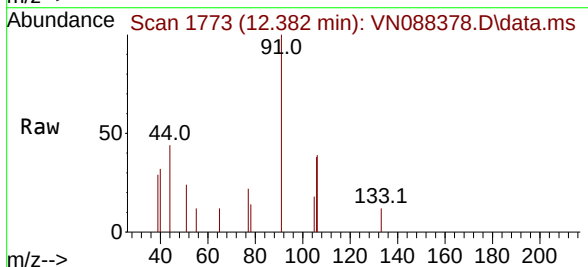
Instrument :
MSVOA_N
ClientSampleId :

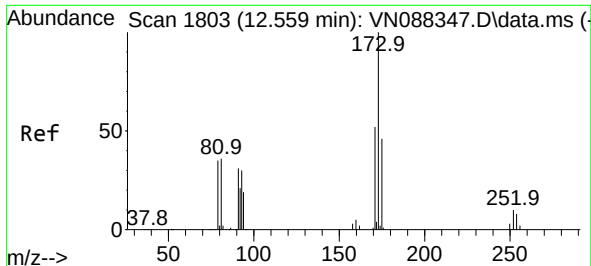
Tgt Ion:106 Resp: 4448
Ion Ratio Lower Upper
106 100
91 215.3 167.8 251.6



#69
o-Xylene
Concen: 0.233 ug/l
RT: 12.382 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Tgt Ion:106 Resp: 1262
Ion Ratio Lower Upper
106 100
91 277.7 112.9 338.7

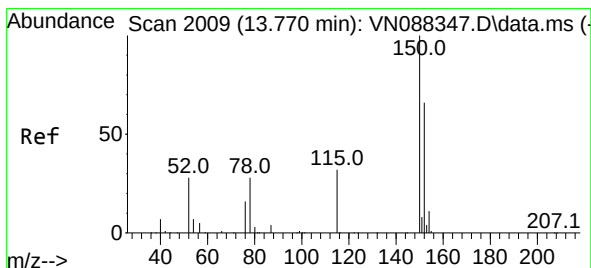
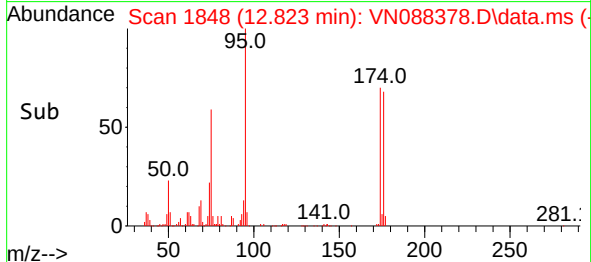
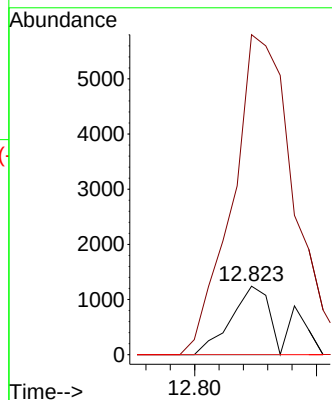
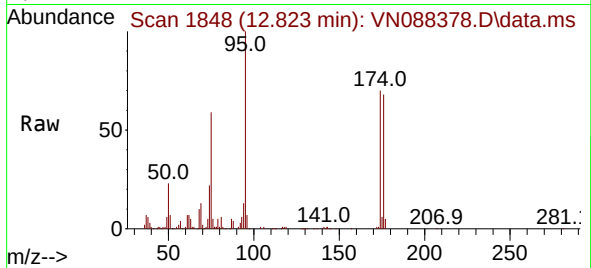




#71
Bromoform
Concen: 0.620 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

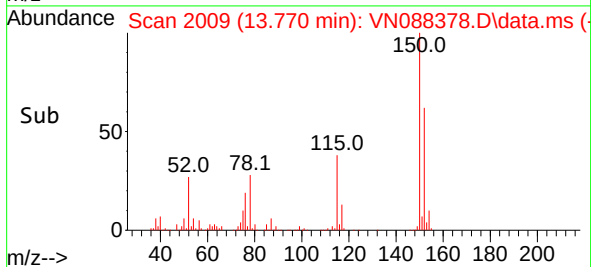
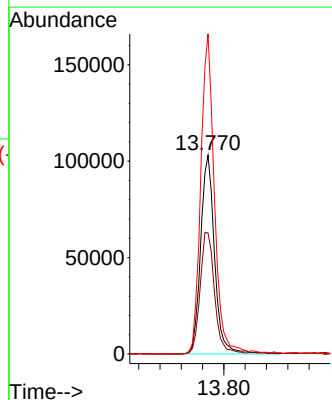
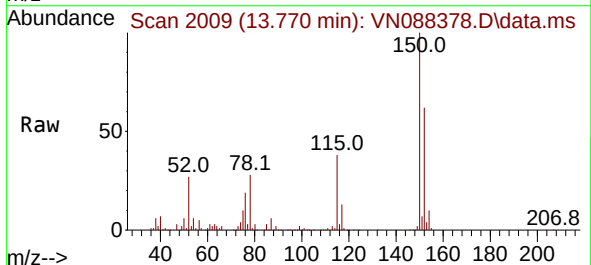
Instrument :
MSVOA_N
ClientSampleId :

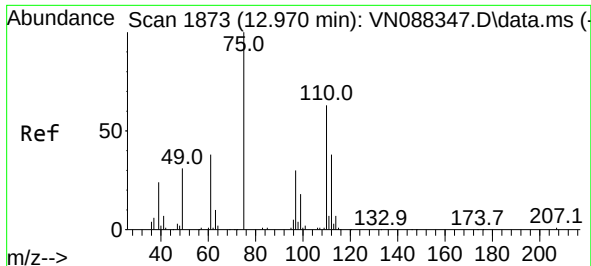
Tgt Ion:173 Resp: 1341
Ion Ratio Lower Upper
173 100
175 607.8 23.9 71.8#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Tgt Ion:152 Resp: 188053
Ion Ratio Lower Upper
152 100
115 63.0 33.0 98.9
150 157.5 0.0 349.0

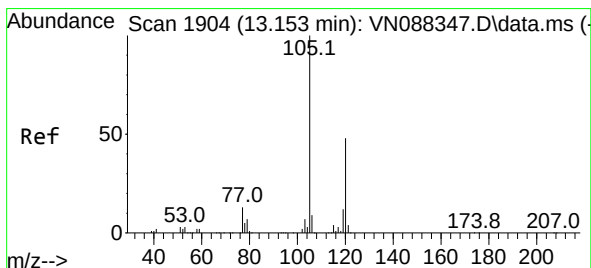
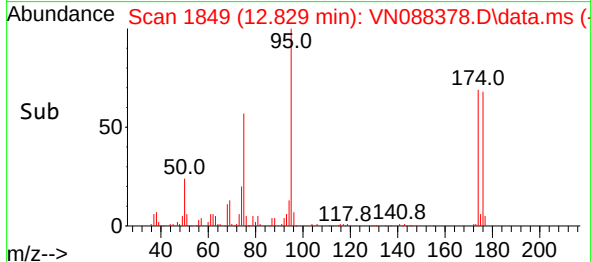
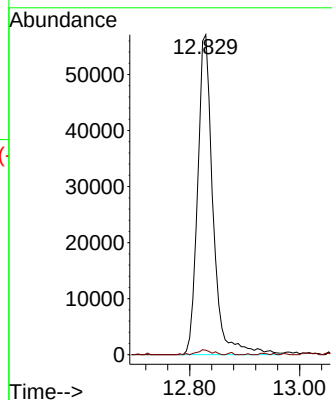
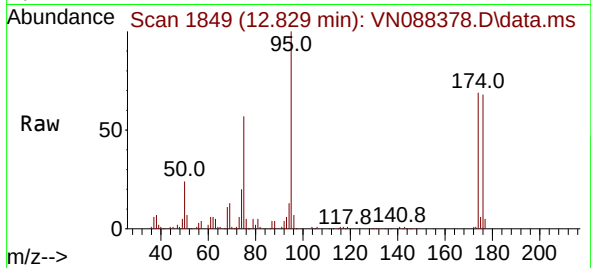




#76
1,2,3-Trichloropropane
Concen: 25.170 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

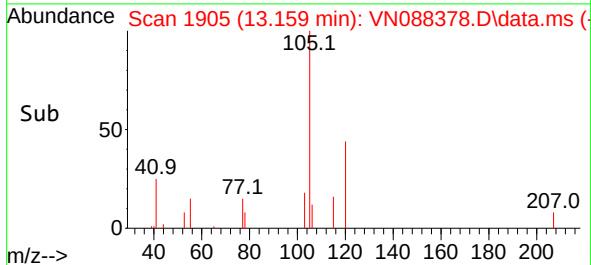
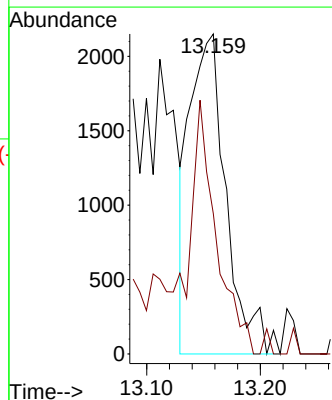
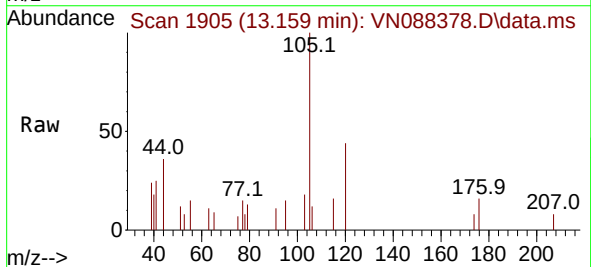
Instrument :
MSVOA_N
ClientSampleId :

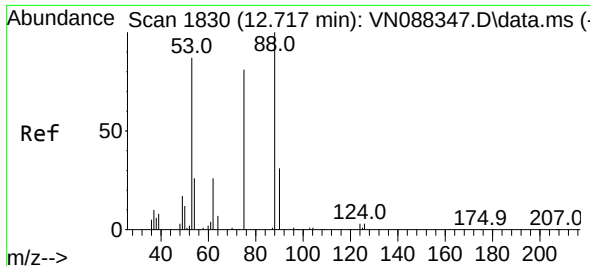
Tgt Ion: 75 Resp: 110862
Ion Ratio Lower Upper
75 100
77 1.4 87.2 261.6#



#80
1,3,5-Trimethylbenzene
Concen: 0.419 ug/l
RT: 13.159 min Scan# 1905
Delta R.T. 0.006 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

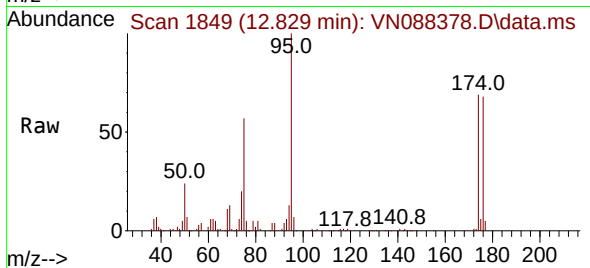
Tgt Ion: 105 Resp: 4832
Ion Ratio Lower Upper
105 100
120 55.7 23.8 71.5



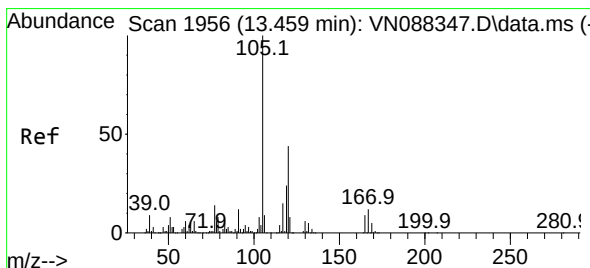
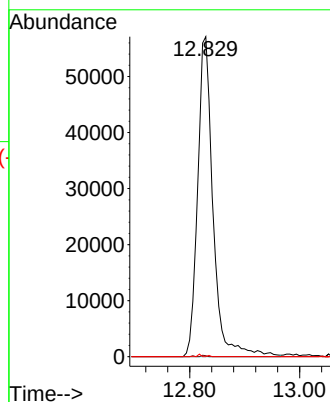
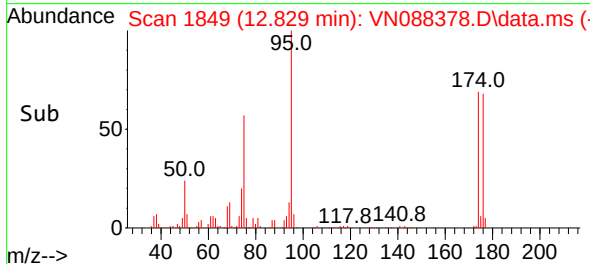


#81
trans-1,4-Dichloro-2-butene
Concen: 71.406 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

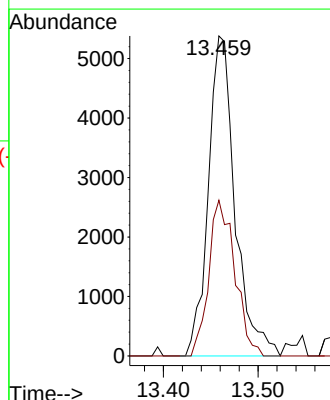
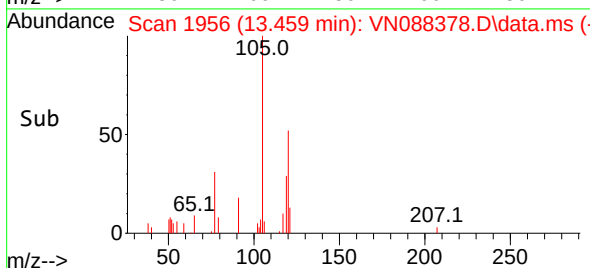
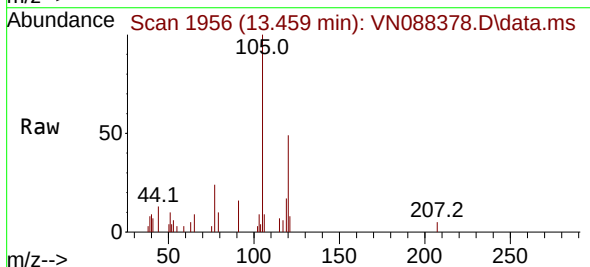


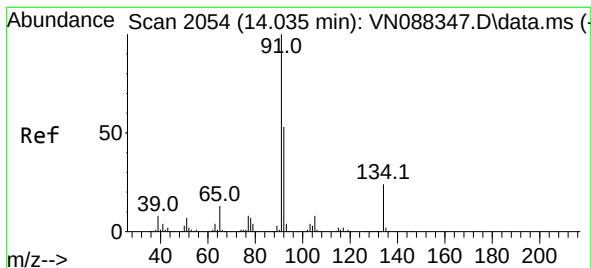
Tgt Ion: 75 Resp: 110862
Ion Ratio Lower Upper
75 100
53 0.1 92.2 138.4#
89 0.1 0.0 0.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.923 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088378.D
Acq: 01 Dec 2025 13:32

Tgt Ion: 105 Resp: 10569
Ion Ratio Lower Upper
105 100
120 47.6 22.1 66.1





#89

n-Butylbenzene

Concen: 0.371 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN088378.D

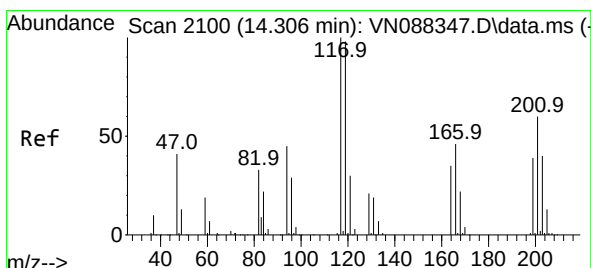
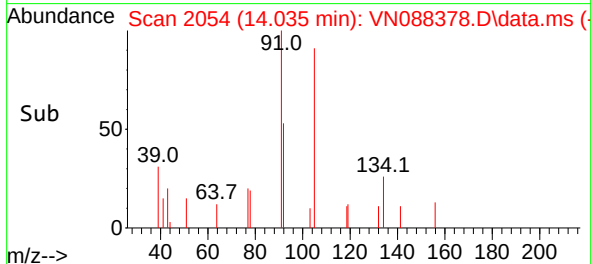
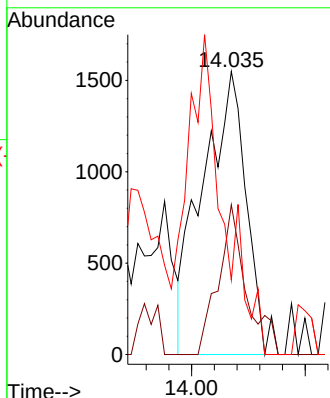
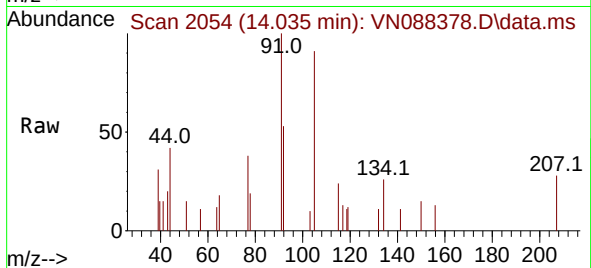
Acq: 01 Dec 2025 13:32

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	91	Resp:	4153
Ion	Ratio	Lower	Upper
91	100		
92	33.8	26.1	78.3
134	0.0	11.7	35.1



#90

Hexachloroethane

Concen: 0.814 ug/l

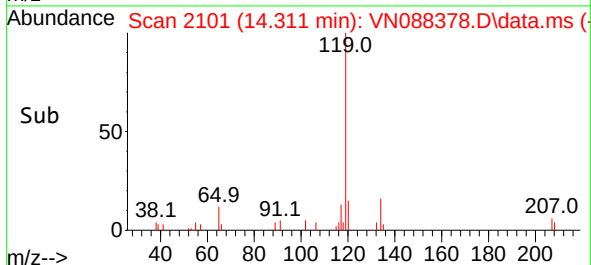
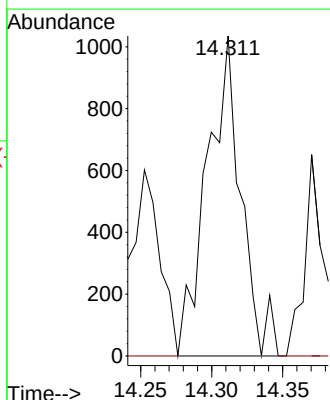
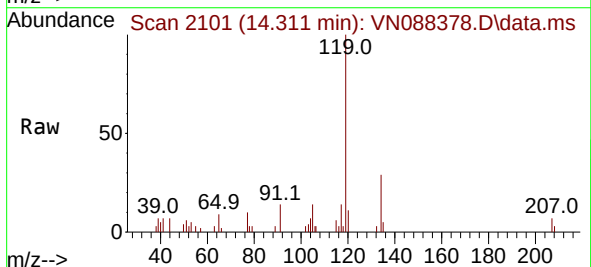
RT: 14.311 min Scan# 2101

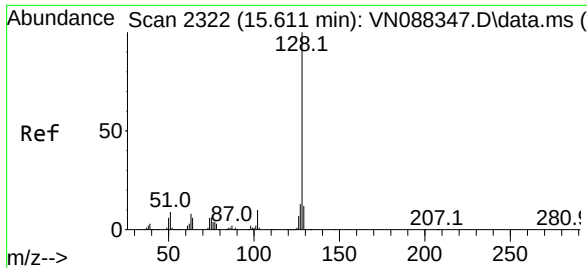
Delta R.T. 0.006 min

Lab File: VN088378.D

Acq: 01 Dec 2025 13:32

Tgt Ion:	117	Resp:	1716
Ion	Ratio	Lower	Upper
117	100		
201	0.0	30.3	90.9





#95

Naphthalene

Concen: 0.335 ug/l

RT: 15.611 min Scan# 21

Delta R.T. 0.000 min

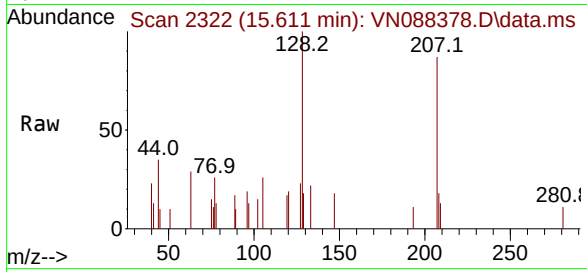
Lab File: VN088378.D

Acq: 01 Dec 2025 13:32

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 4025

Ion Ratio Lower Upper

128 100

127 4.7 10.4 15.6#

129 7.1 9.0 13.6#

