

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088198.D
 Acq On : 06 Nov 2025 11:35
 Operator : JC\MD
 Sample : VN1106MBL01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106MBL01

Quant Time: Nov 07 02:15:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

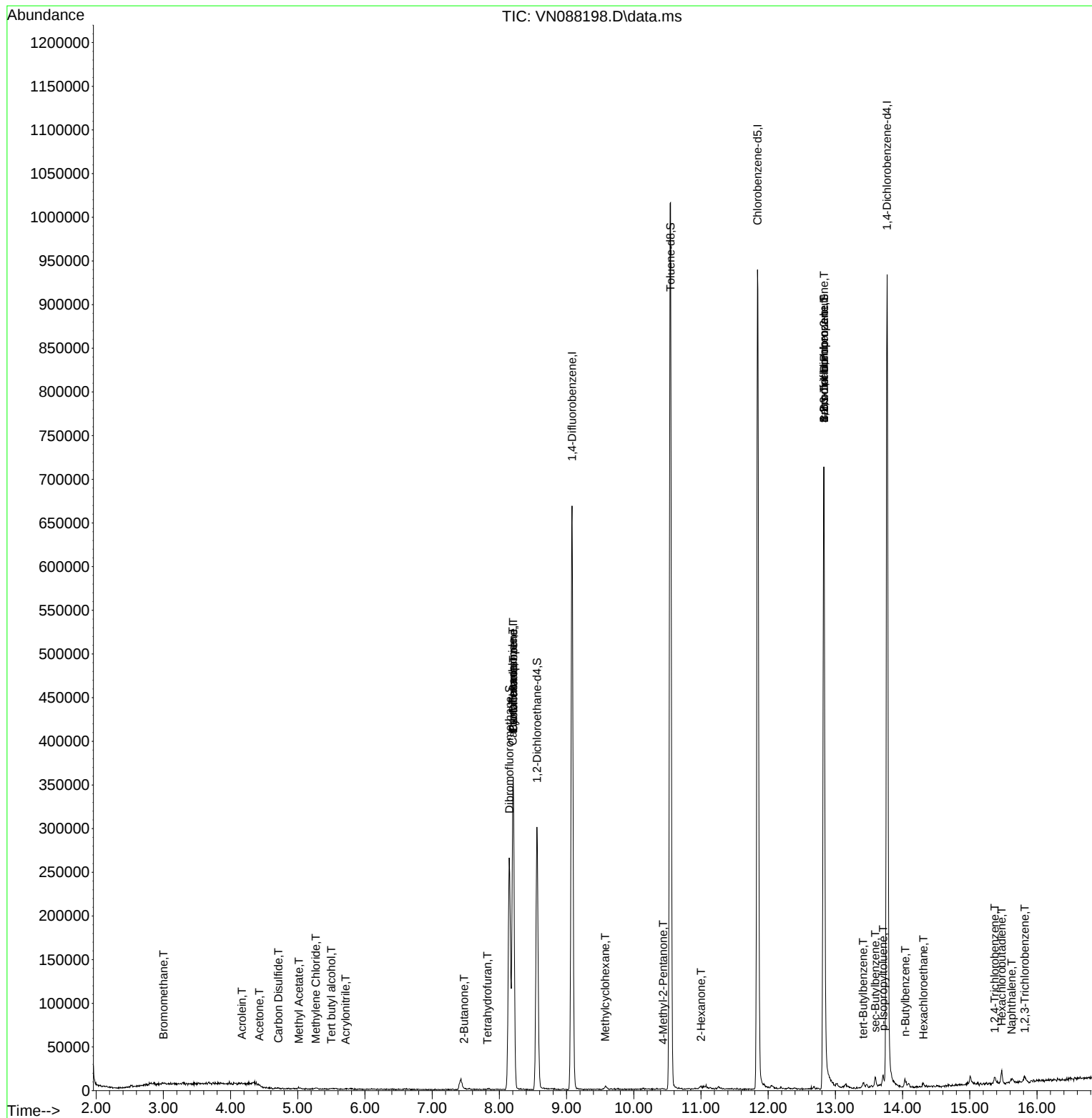
Internal Standards						
1) Pentafluorobenzene	8.206	168	245629	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	548638	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	523258	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	253408	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	249368	58.710	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.420%			
35) Dibromofluoromethane	8.147	113	188997	51.277	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.560%			
50) Toluene-d8	10.547	98	699189	49.232	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.460%			
62) 4-Bromofluorobenzene	12.829	95	275930	55.014	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.020%			
Target Compounds						Qvalue
5) Bromomethane	3.001	94	1159	0.546	ug/l #	55
11) Tert butyl alcohol	5.500	59	692	0.946	ug/l #	71
13) Acrolein	4.171	56	487	0.592	ug/l #	45
15) Acrylonitrile	5.712	53	905	0.454	ug/l #	58
16) Acetone	4.430	43	2146	1.006	ug/l #	47
17) Carbon Disulfide	4.712	76	2351	0.251	ug/l #	74
18) Methyl Acetate	5.018	43	2154	0.493	ug/l #	59
20) Methylene Chloride	5.271	84	776	0.217	ug/l #	76
25) 2-Butanone	7.477	43	870	0.309	ug/l #	50
29) Tetrahydrofuran	7.824	42	655	0.357	ug/l #	34
31) Cyclohexane	8.206	56	7763	1.306	ug/l #	15
36) 1,1-Dichloropropene	8.206	75	24469	4.547	ug/l #	52
38) Carbon Tetrachloride	8.200	117	28567	5.139	ug/l #	15
39) Methylcyclohexane	9.577	83	1644	0.238	ug/l	86
51) 4-Methyl-2-Pentanone	10.435	43	1563	0.248	ug/l #	65
59) 2-Hexanone	11.000	43	2906	0.694	ug/l	92
71) Bromoform	12.829	173	1660	0.571	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	155692	26.873	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	155692	74.962	ug/l #	1
83) tert-Butylbenzene	13.412	119	4450	0.307	ug/l	86
85) sec-Butylbenzene	13.594	105	6824	0.320	ug/l	96
86) p-Isopropyltoluene	13.712	119	5717	0.335	ug/l	92
89) n-Butylbenzene	14.041	91	6418	0.379	ug/l	99
90) Hexachloroethane	14.312	117	1119	0.338	ug/l	78
93) 1,2,4-Trichlorobenzene	15.370	180	1383	0.282	ug/l #	18
94) Hexachlorobutadiene	15.476	225	2156	1.179	ug/l	89
95) Naphthalene	15.623	128	5895	0.350	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.817	180	2651	0.563	ug/l	88

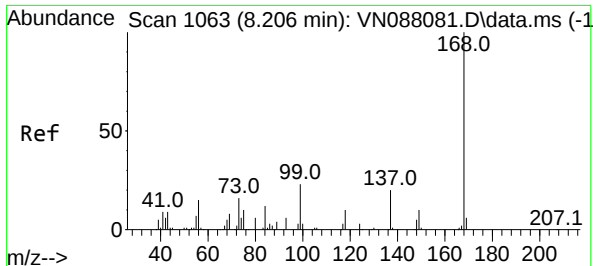
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN088198.D
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Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

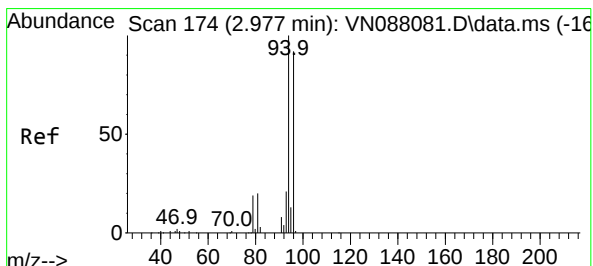
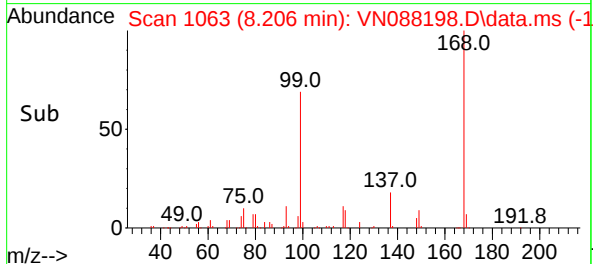
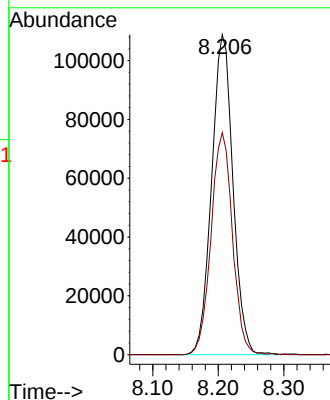
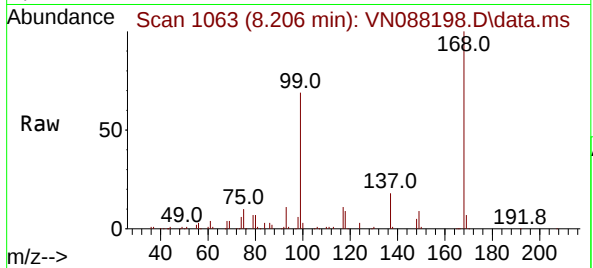




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

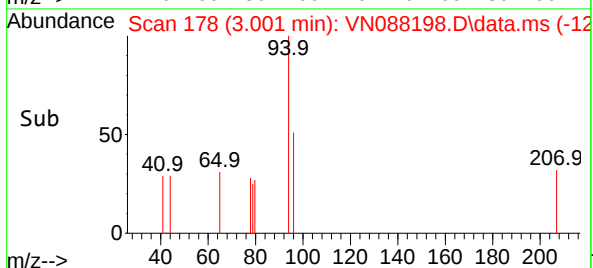
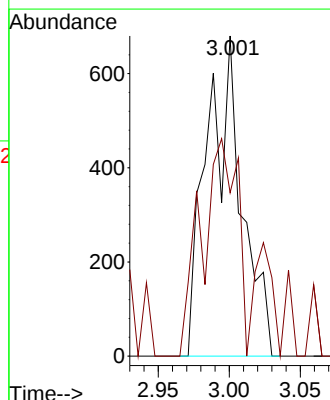
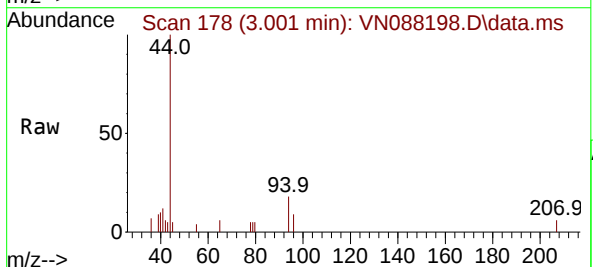
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

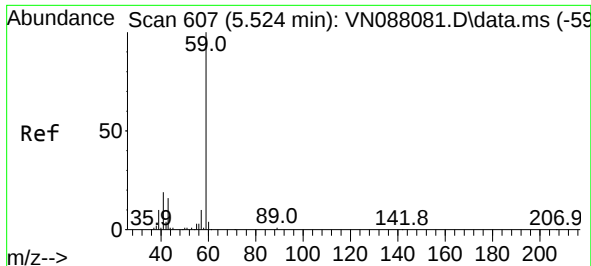
Tgt Ion:168 Resp: 245629
Ion Ratio Lower Upper
168 100
99 69.3 57.2 85.8



#5
Bromomethane
Concen: 0.546 ug/l
RT: 3.001 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 94 Resp: 1159
Ion Ratio Lower Upper
94 100
96 51.0 75.4 113.2#

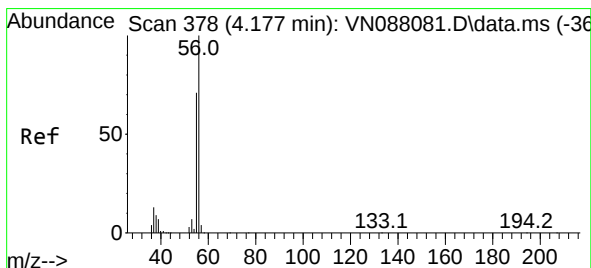
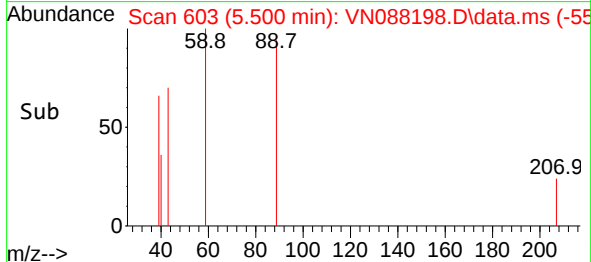
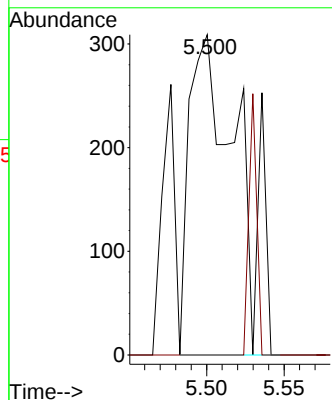
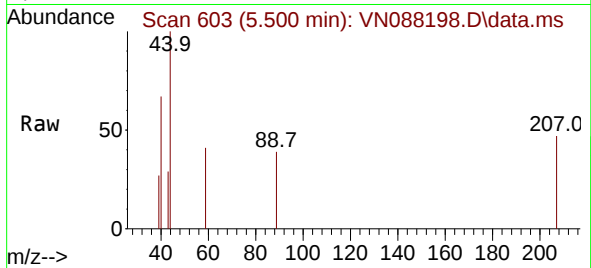




#11
Tert butyl alcohol
Concen: 0.946 ug/l
RT: 5.500 min Scan# 607
Delta R.T. -0.018 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

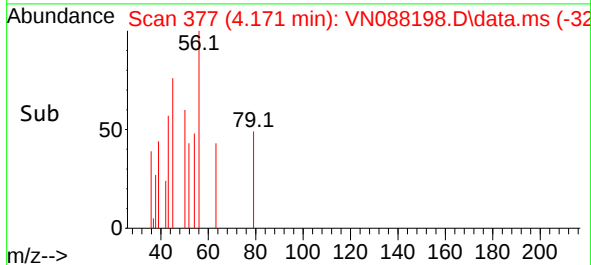
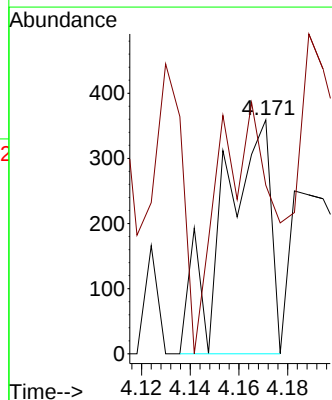
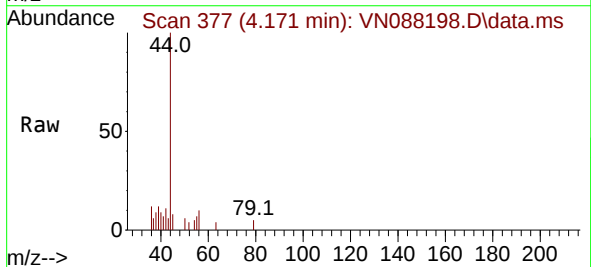
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

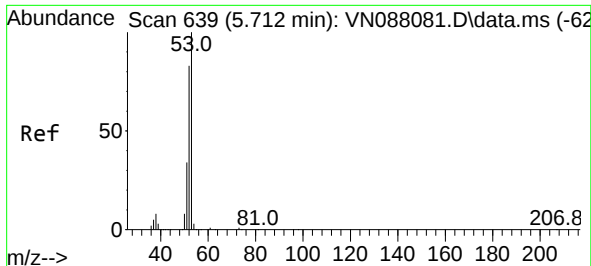
Tgt Ion: 59 Resp: 692
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.592 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

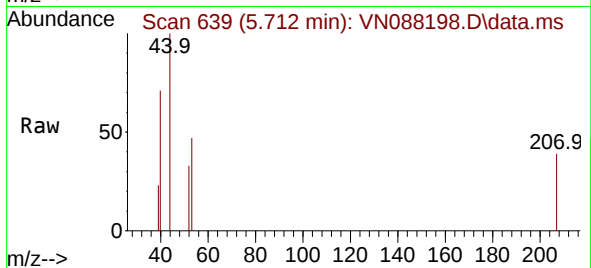
Tgt Ion: 56 Resp: 487
Ion Ratio Lower Upper
56 100
55 117.7 57.3 85.9#



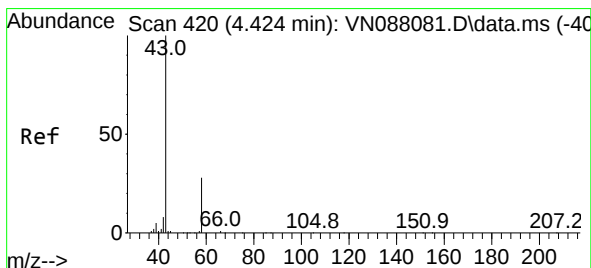
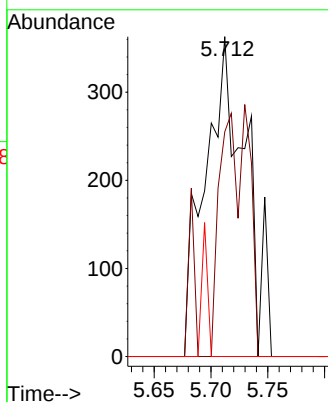
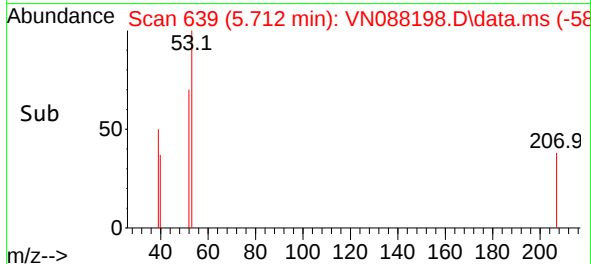


#15
Acrylonitrile
Concen: 0.454 ug/l
RT: 5.712 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

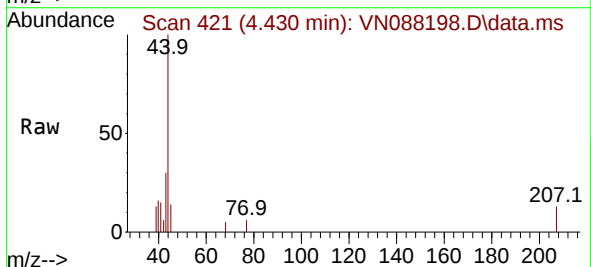
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01



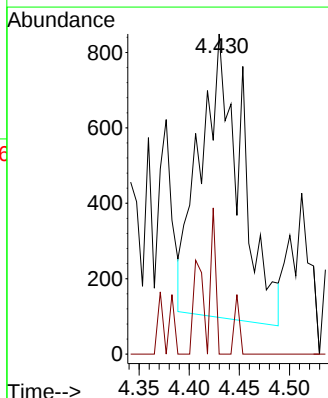
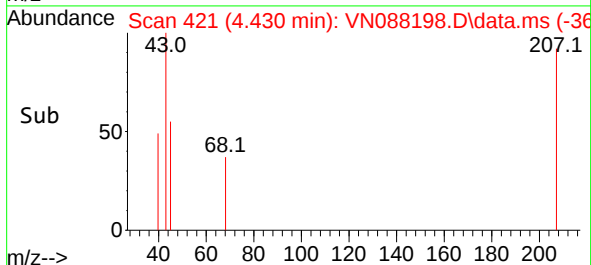
Tgt Ion: 53 Resp: 905
Ion Ratio Lower Upper
53 100
52 54.0 67.6 101.4#
51 0.0 30.1 45.1#

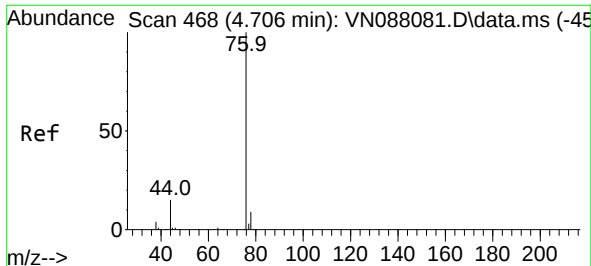


#16
Acetone
Concen: 1.006 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35



Tgt Ion: 43 Resp: 2146
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#

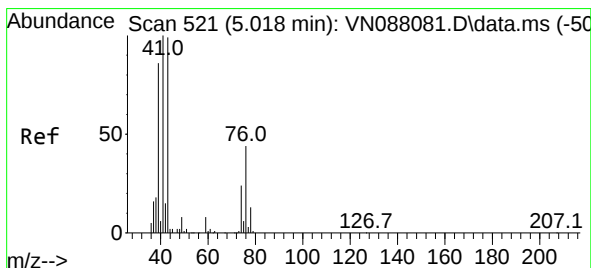
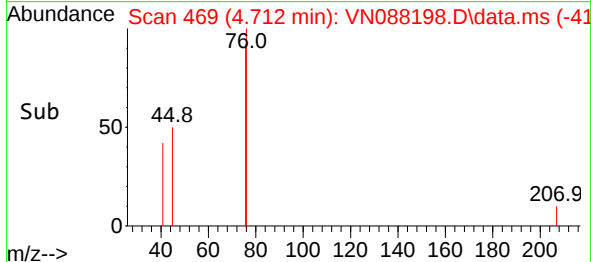
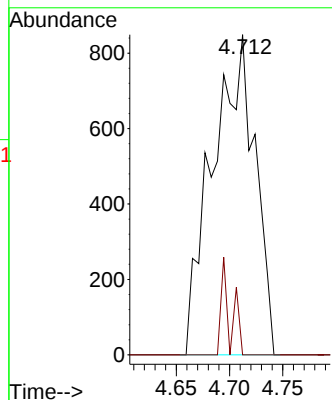
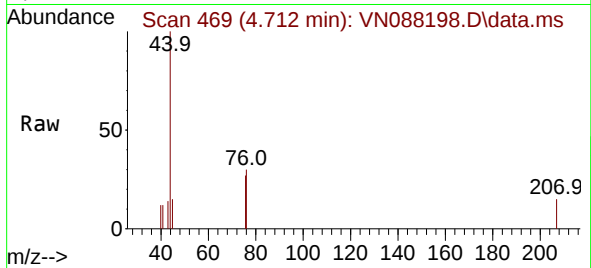




#17
Carbon Disulfide
Concen: 0.251 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

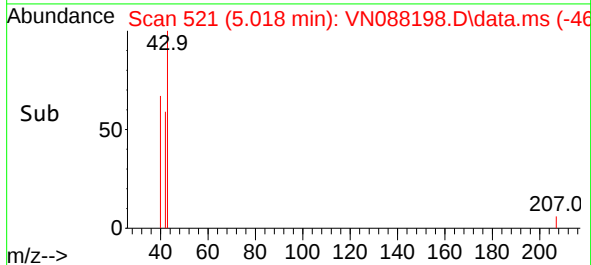
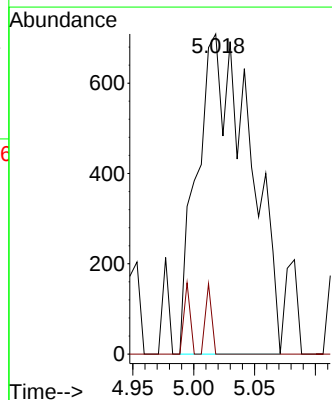
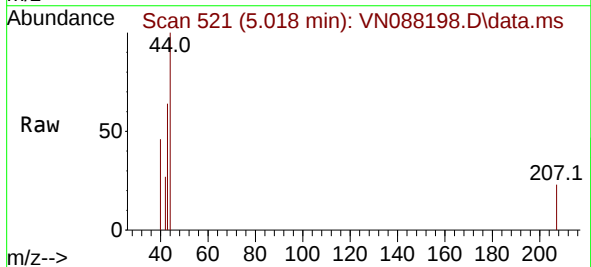
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

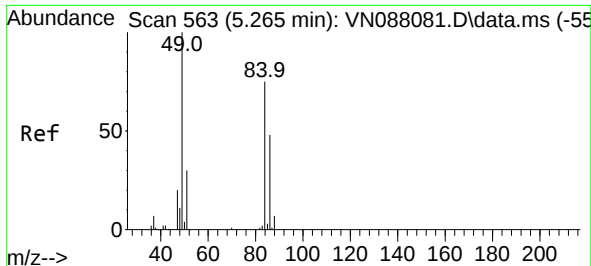
Tgt Ion: 76 Resp: 2351
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.493 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

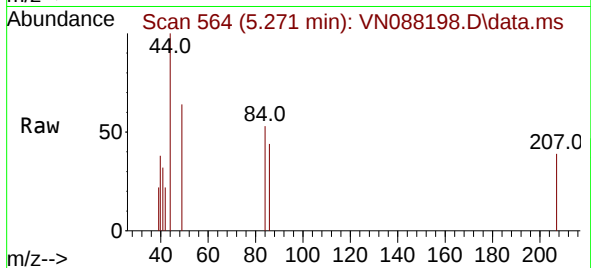
Tgt Ion: 43 Resp: 2154
Ion Ratio Lower Upper
43 100
74 2.6 17.6 26.4#



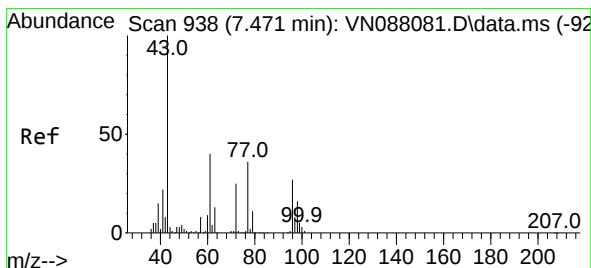
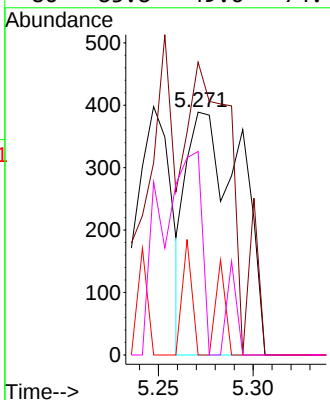
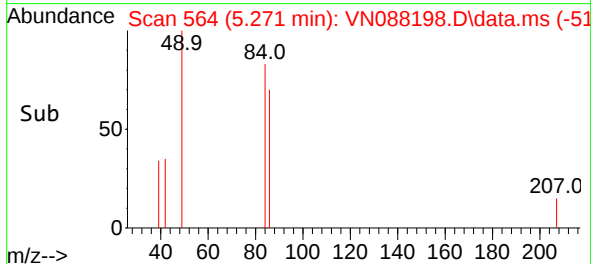


#20
Methylene Chloride
Concen: 0.217 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

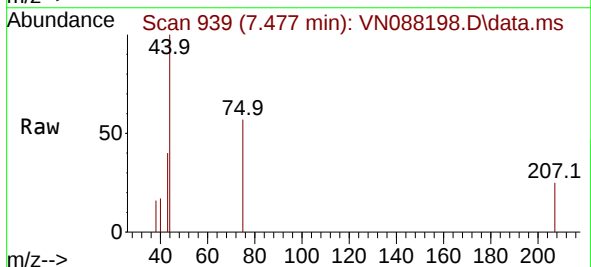
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01



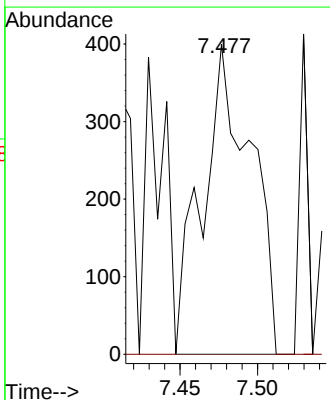
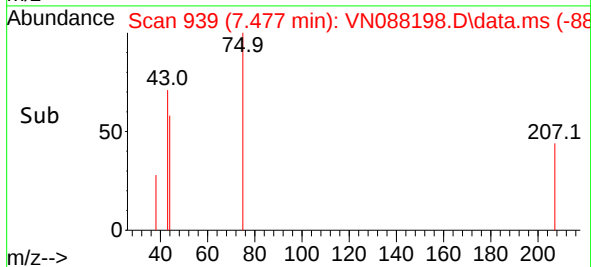
Tgt Ion: 84 Resp: 776
Ion Ratio Lower Upper
84 100
49 120.6 103.4 155.2
51 0.0 33.8 50.8#
86 83.8 49.6 74.4#

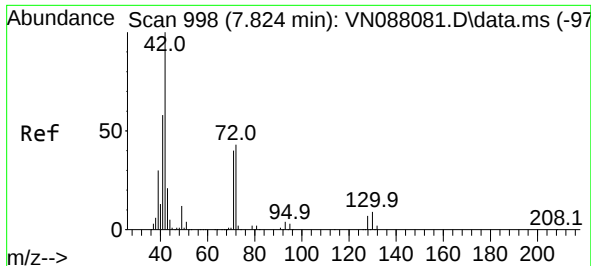


#25
2-Butanone
Concen: 0.309 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35



Tgt Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

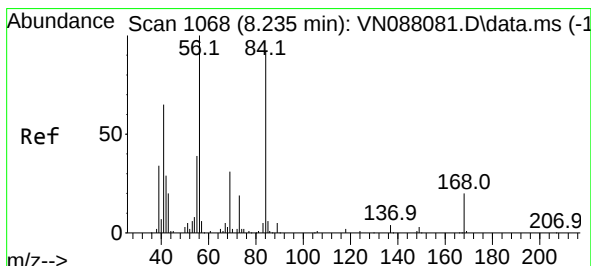
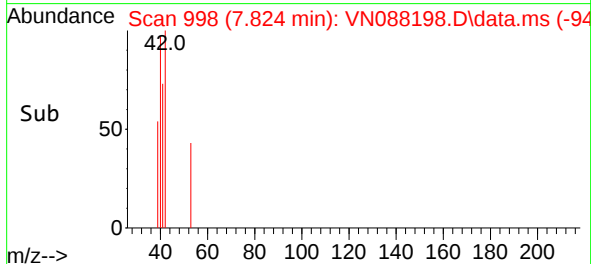
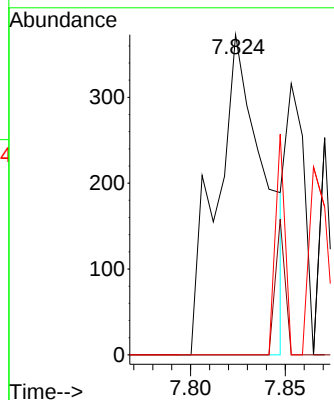
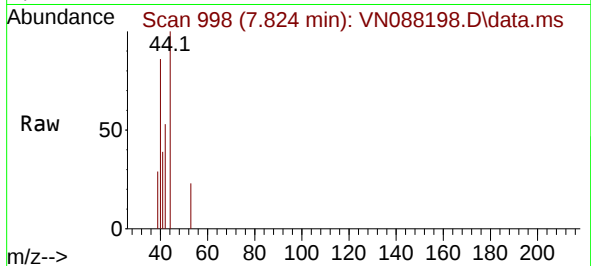




#29
Tetrahydrofuran
Concen: 0.357 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

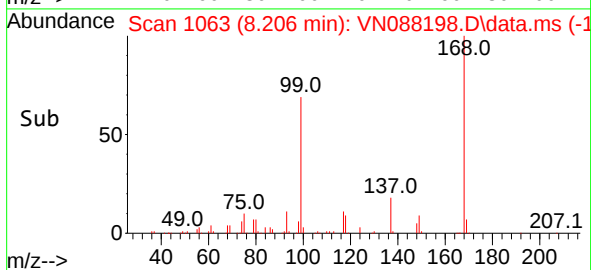
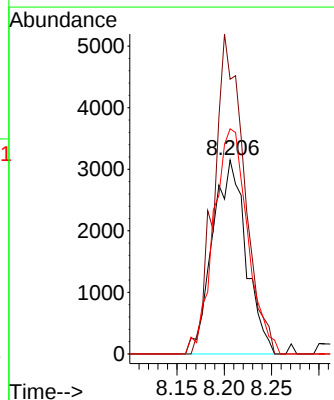
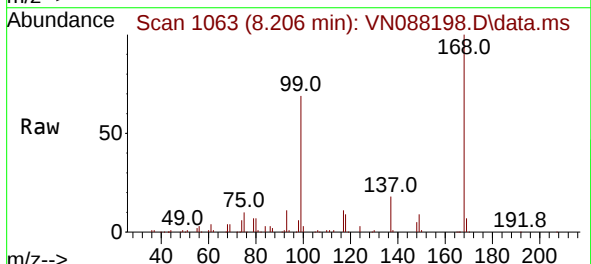
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

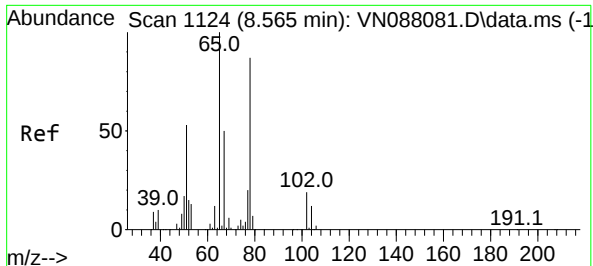
Tgt Ion: 42	Resp:	655
Ion Ratio	Lower	Upper
42	100	
72	0.0	33.7 50.5#
71	0.0	31.9 47.9#



#31
Cyclohexane
Concen: 1.306 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 56	Resp:	7763
Ion Ratio	Lower	Upper
56	100	
69	141.7	23.7 35.5#
84	116.1	64.7 97.1#

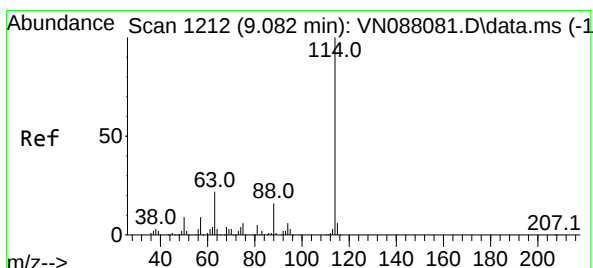
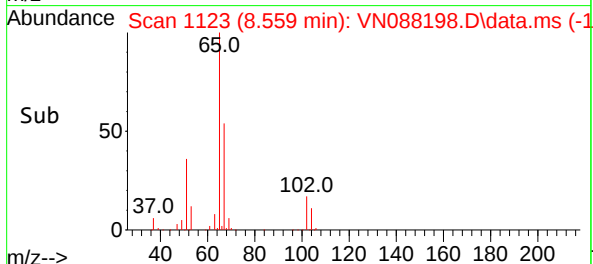
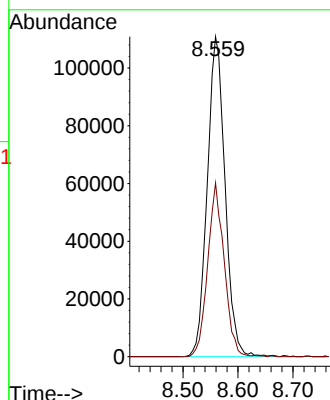
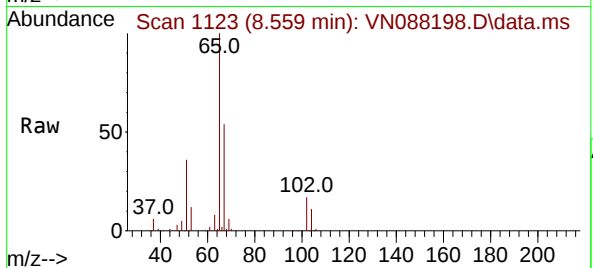




#33
1,2-Dichloroethane-d4
Concen: 58.710 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

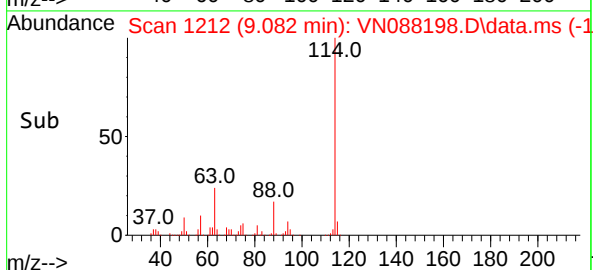
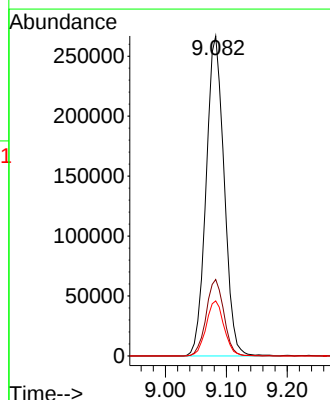
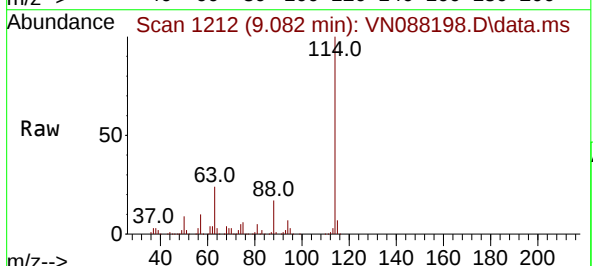
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

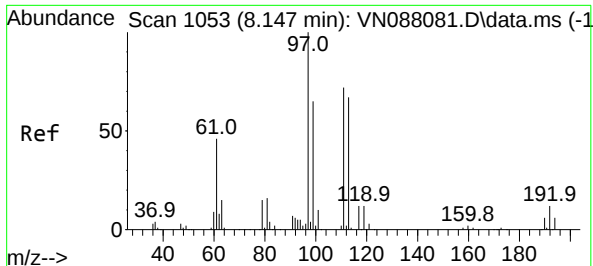
Tgt Ion: 65 Resp: 249368
Ion Ratio Lower Upper
65 100
67 50.3 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 114 Resp: 548638
Ion Ratio Lower Upper
114 100
63 23.9 0.0 45.2
88 17.2 0.0 33.4

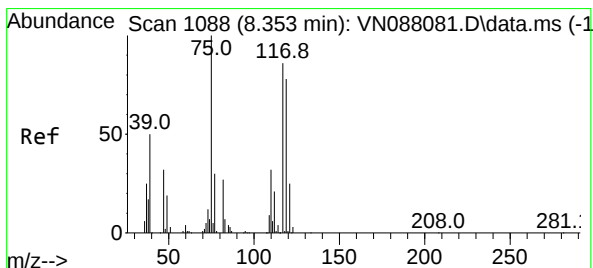
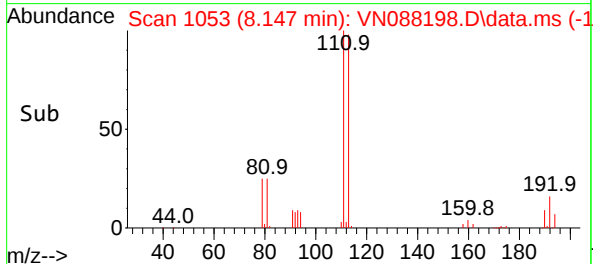
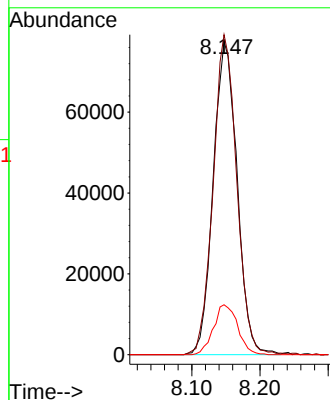
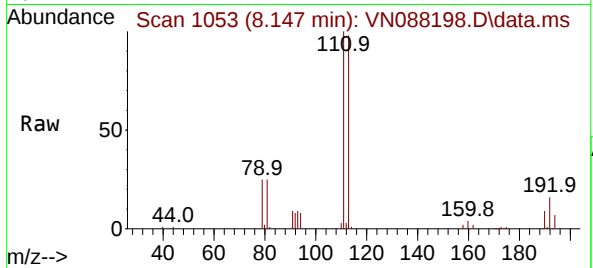




#35
Dibromofluoromethane
Concen: 51.277 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

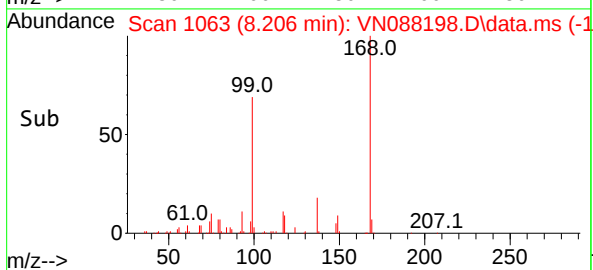
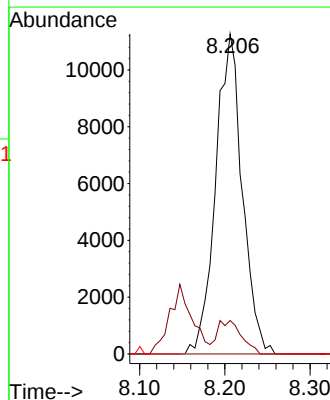
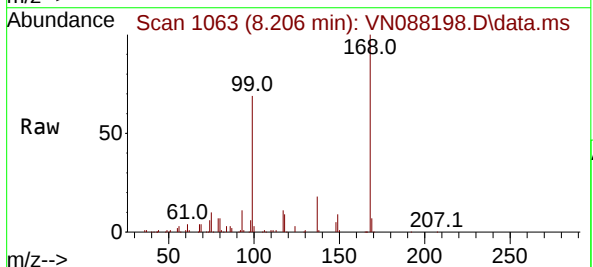
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

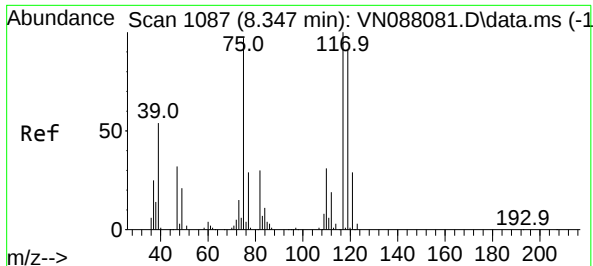
Tgt Ion:113 Resp: 188997
Ion Ratio Lower Upper
113 100
111 100.8 82.8 124.2
192 16.1 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.547 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 75 Resp: 24469
Ion Ratio Lower Upper
75 100
110 9.4 15.9 47.6#
77 0.0 24.4 36.6#

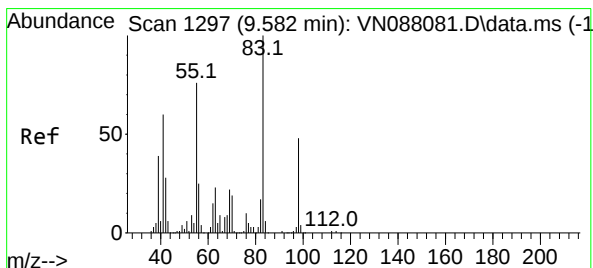
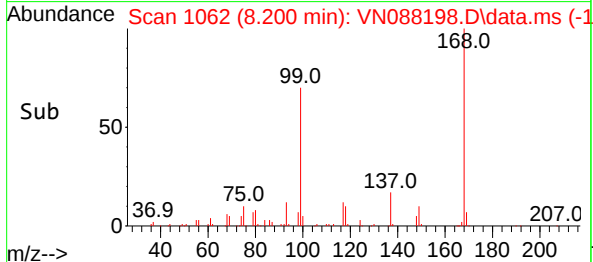
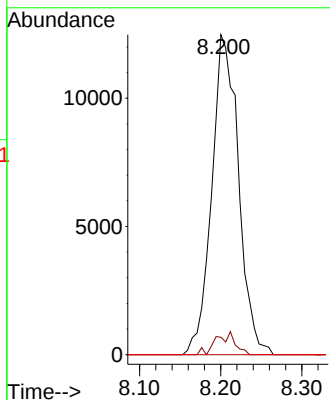
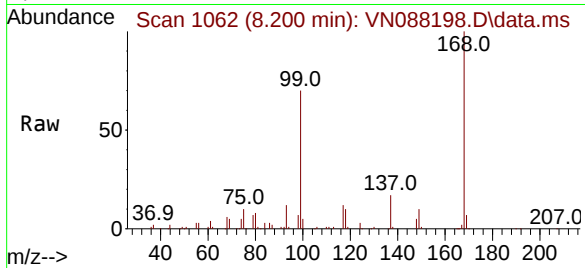




#38
Carbon Tetrachloride
Concen: 5.139 ug/l
RT: 8.200 min Scan# 110
Delta R.T. -0.141 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

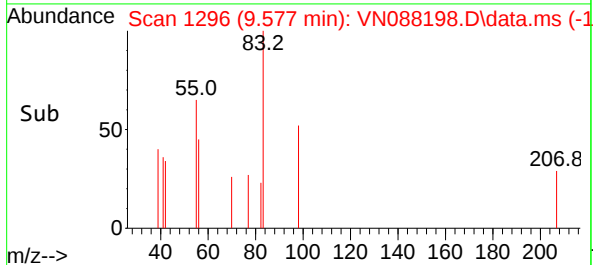
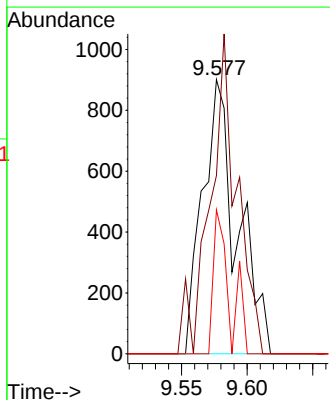
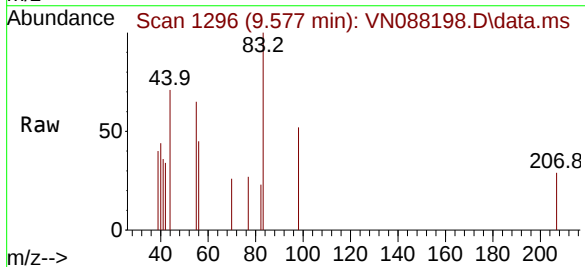
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

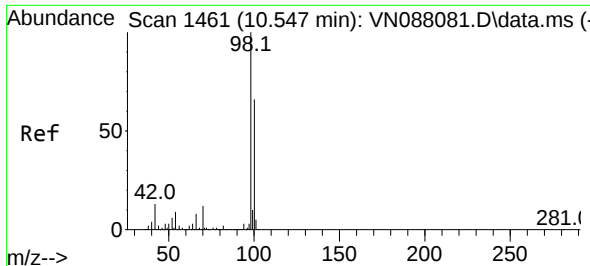
Tgt Ion:117 Resp: 28567
Ion Ratio Lower Upper
117 100
119 5.5 79.0 118.6#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 0.238 ug/l
RT: 9.577 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 83 Resp: 1644
Ion Ratio Lower Upper
83 100
55 65.0 64.6 96.8
98 52.5 38.4 57.6

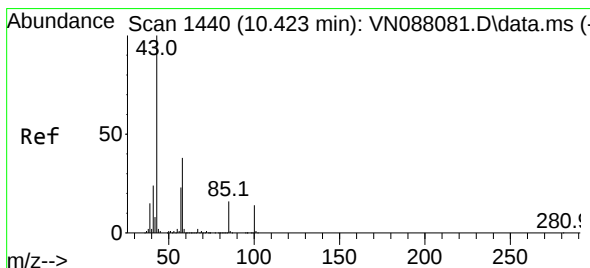
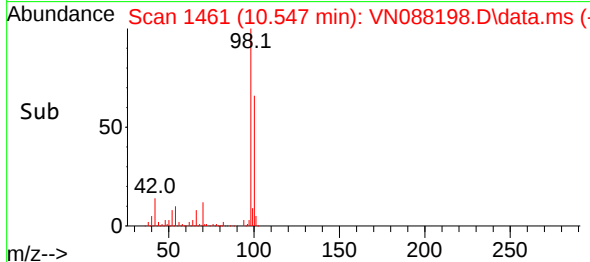
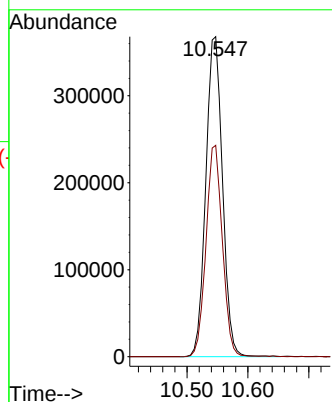
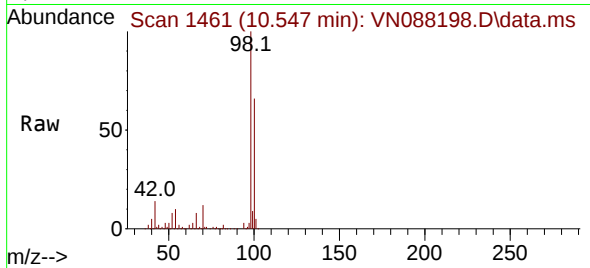




#50
Toluene-d8
Concen: 49.232 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

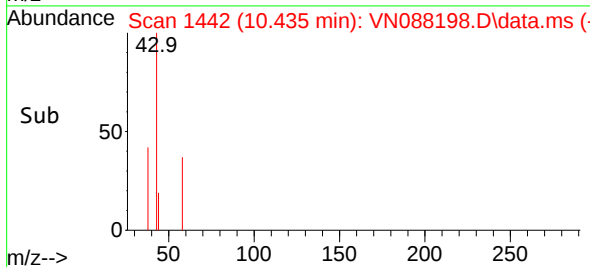
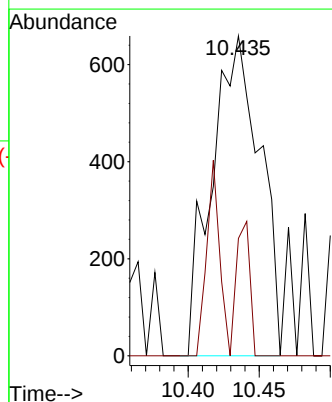
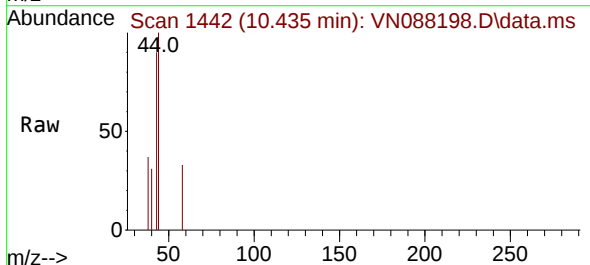
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

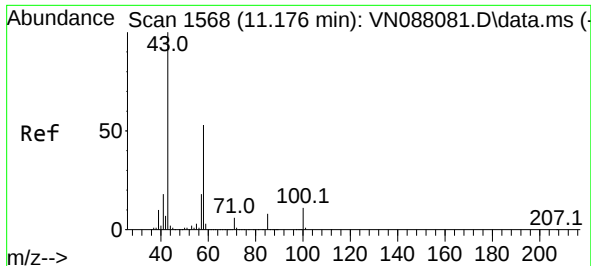
Tgt Ion: 98 Resp: 699189
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.248 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 43 Resp: 1563
Ion Ratio Lower Upper
43 100
58 16.4 29.6 44.4#

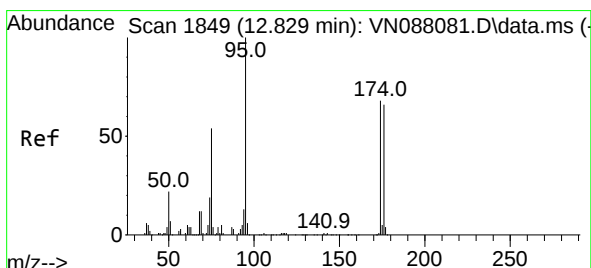
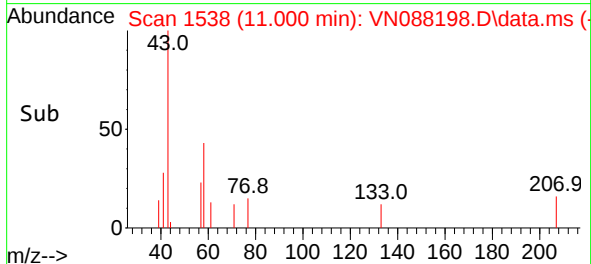
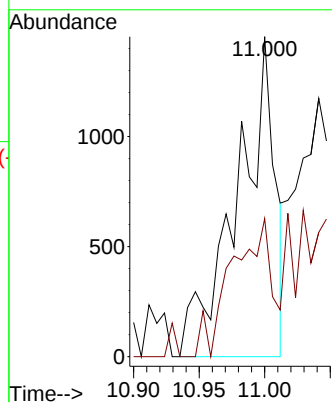
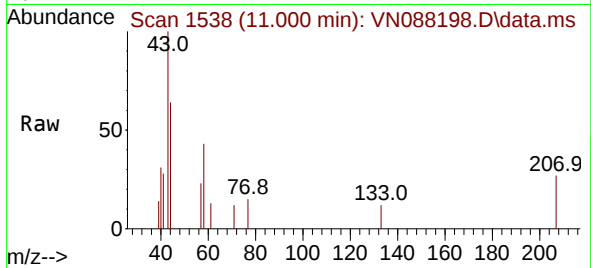




#59
2-Hexanone
Concen: 0.694 ug/l
RT: 11.000 min Scan# 11
Delta R.T. -0.177 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

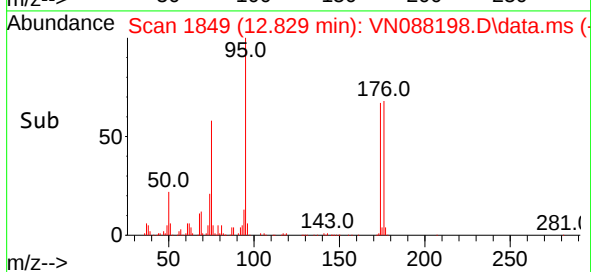
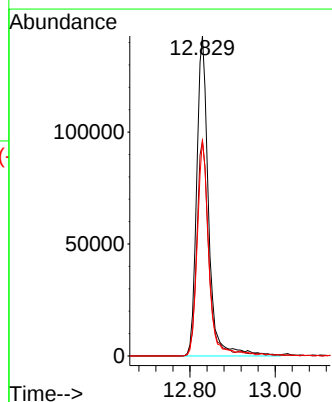
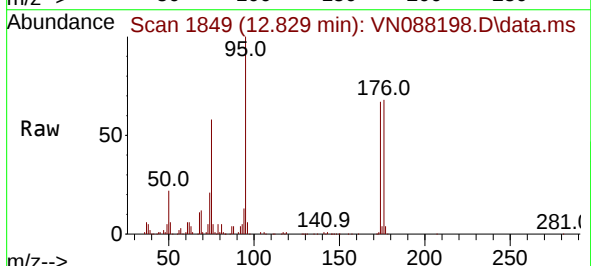
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

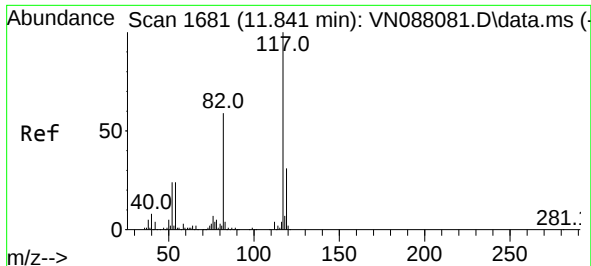
Tgt Ion: 43 Resp: 2906
Ion Ratio Lower Upper
43 100
58 46.0 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 55.014 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 95 Resp: 275930
Ion Ratio Lower Upper
95 100
174 66.6 0.0 138.4
176 64.4 0.0 132.6

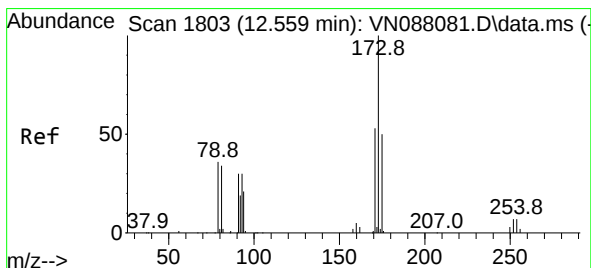
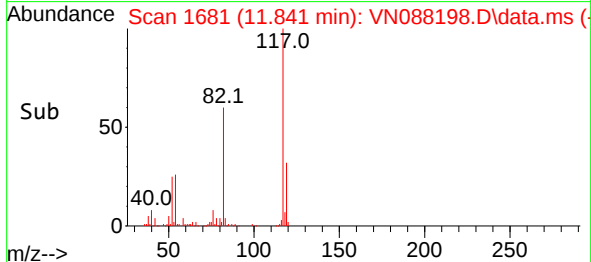
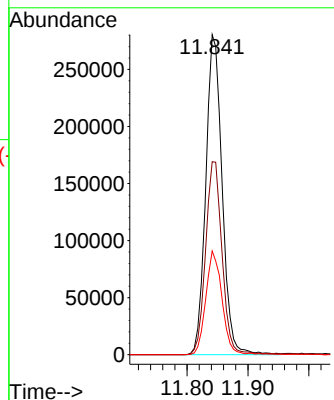
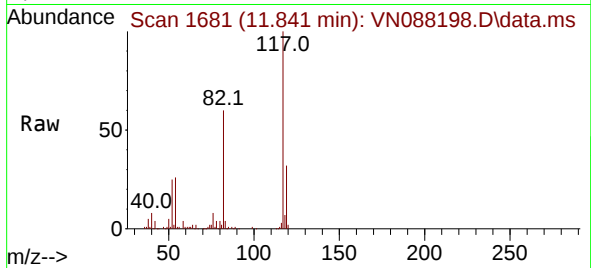




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

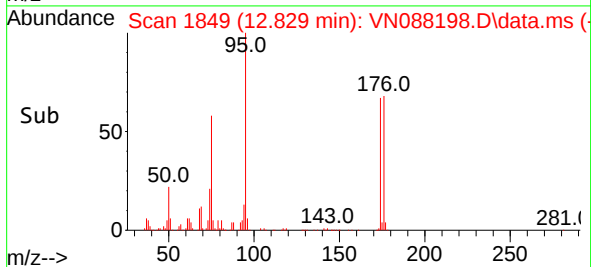
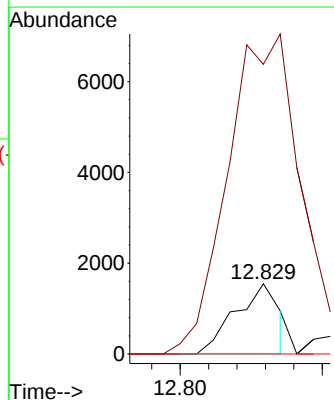
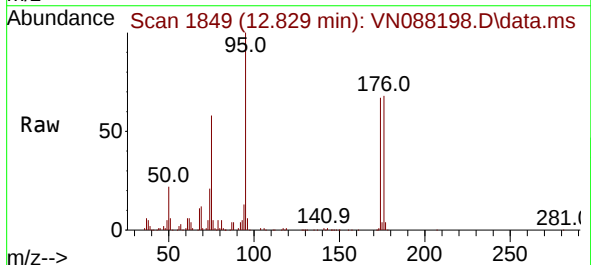
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

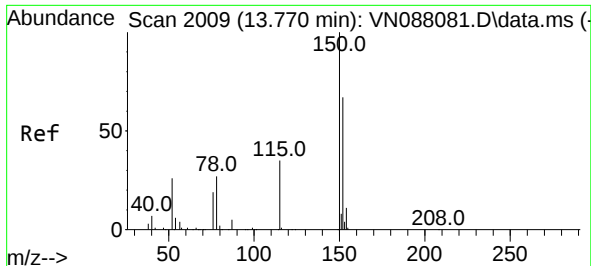
Tgt Ion:117 Resp: 523258
Ion Ratio Lower Upper
117 100
82 60.3 47.4 71.2
119 32.4 24.3 36.5



#71
Bromoform
Concen: 0.571 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion:173 Resp: 1660
Ion Ratio Lower Upper
173 100
175 438.6 24.9 74.6#
254 0.0 0.1 0.1#

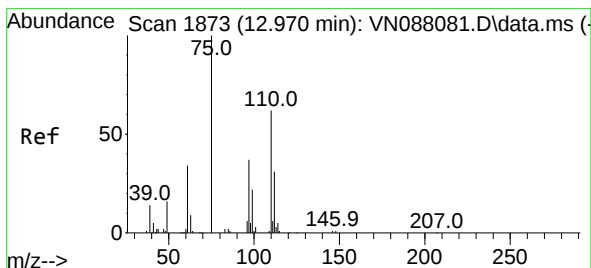
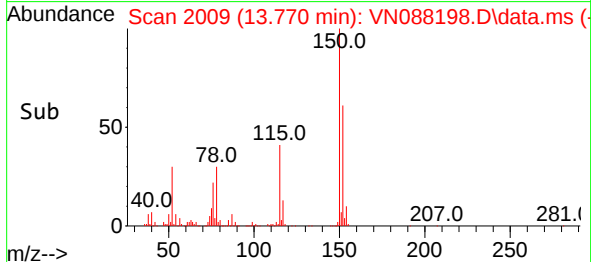
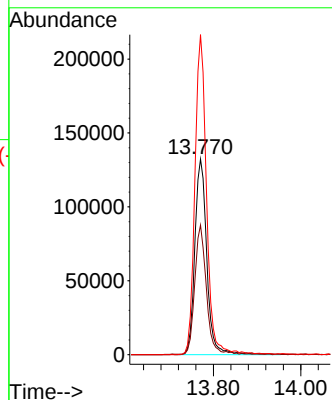
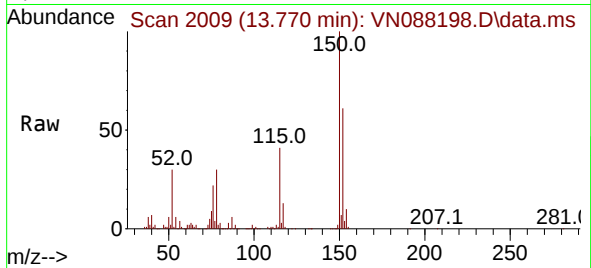




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088198.D
 Acq: 06 Nov 2025 11:35

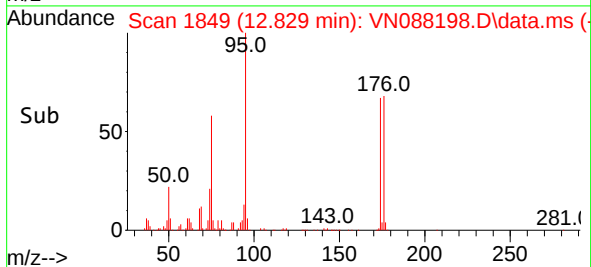
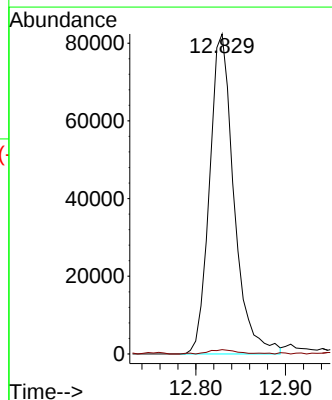
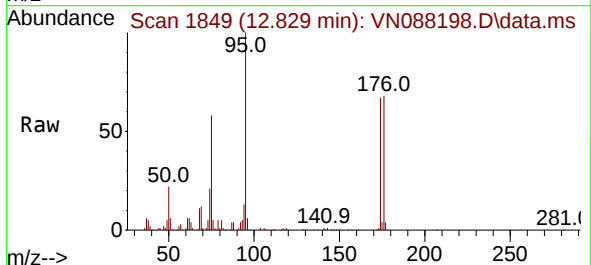
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106MBL01

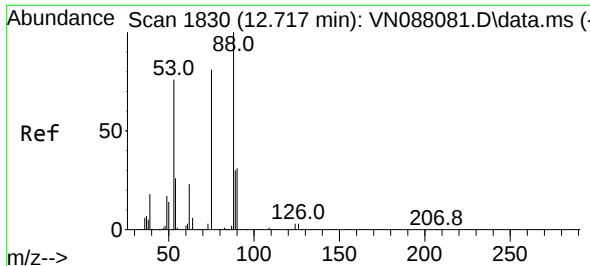
Tgt Ion:152 Resp: 253408
 Ion Ratio Lower Upper
 152 100
 115 63.7 32.3 96.8
 150 158.6 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 26.873 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088198.D
 Acq: 06 Nov 2025 11:35

Tgt Ion: 75 Resp: 155692
 Ion Ratio Lower Upper
 75 100
 77 1.6 89.1 267.4#

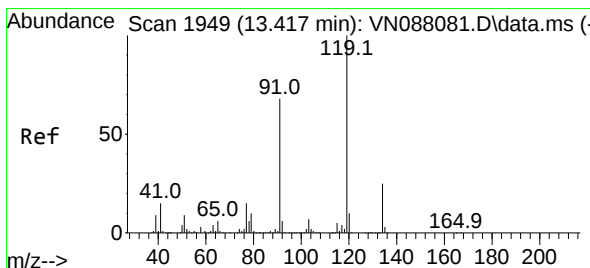
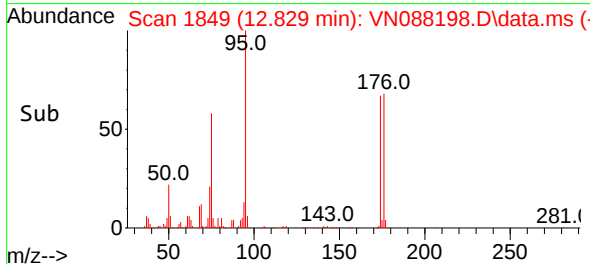
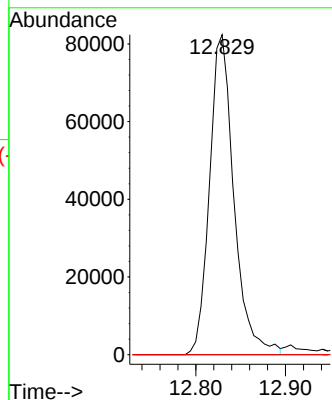
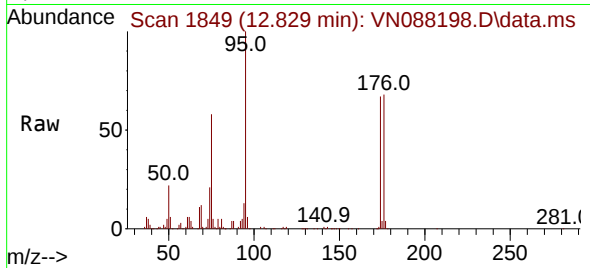




#81
trans-1,4-Dichloro-2-butene
Concen: 74.962 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

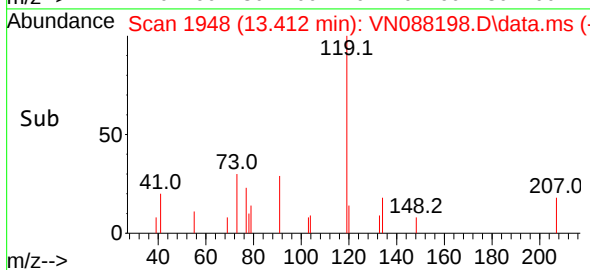
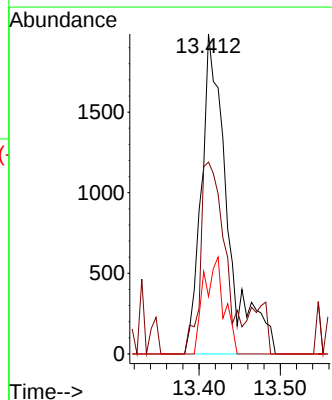
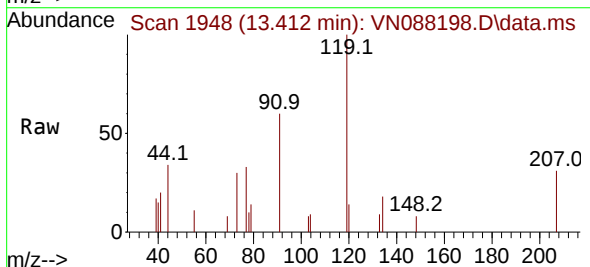
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

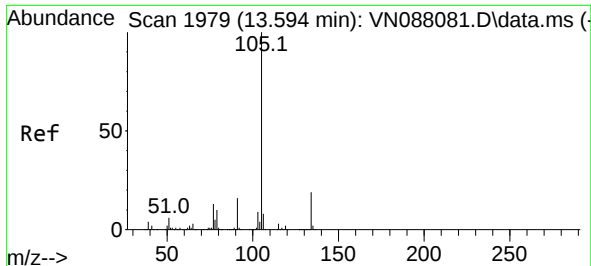
Tgt Ion: 75 Resp: 155692
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#83
tert-Butylbenzene
Concen: 0.307 ug/l
RT: 13.412 min Scan# 1948
Delta R.T. -0.006 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 119 Resp: 4450
Ion Ratio Lower Upper
119 100
91 55.8 35.0 105.0
134 23.3 12.6 37.8

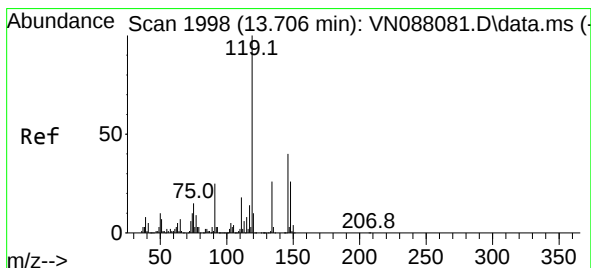
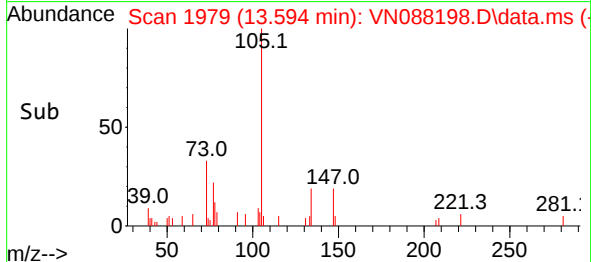
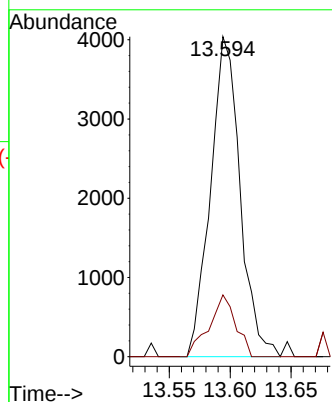
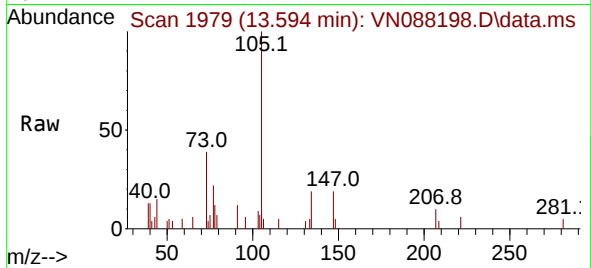




#85
 sec-Butylbenzene
 Concen: 0.320 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VN088198.D
 Acq: 06 Nov 2025 11:35

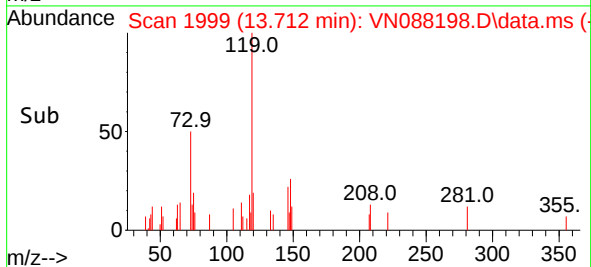
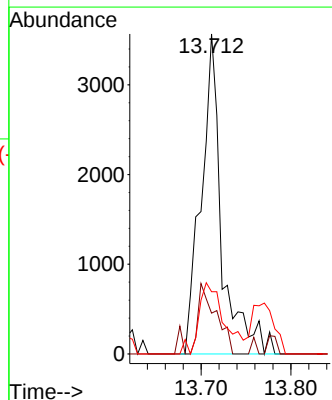
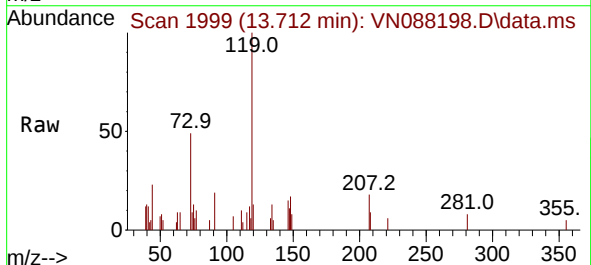
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106MBL01

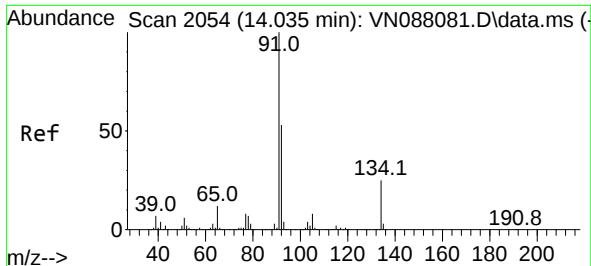
Tgt Ion:105 Resp: 6824
 Ion Ratio Lower Upper
 105 100
 134 17.3 9.6 28.6



#86
 p-Isopropyltoluene
 Concen: 0.335 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.006 min
 Lab File: VN088198.D
 Acq: 06 Nov 2025 11:35

Tgt Ion:119 Resp: 5717
 Ion Ratio Lower Upper
 119 100
 134 19.1 12.7 38.0
 91 27.0 12.5 37.5

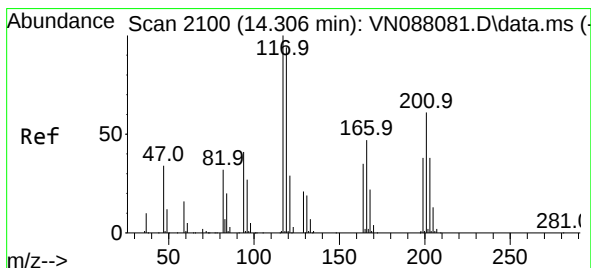
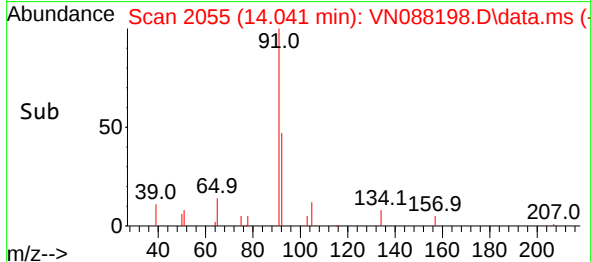
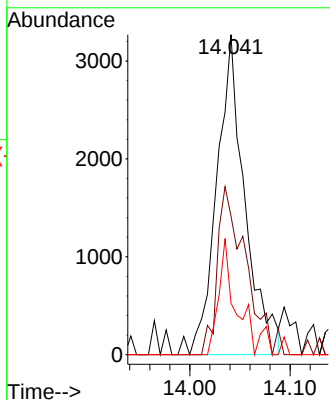
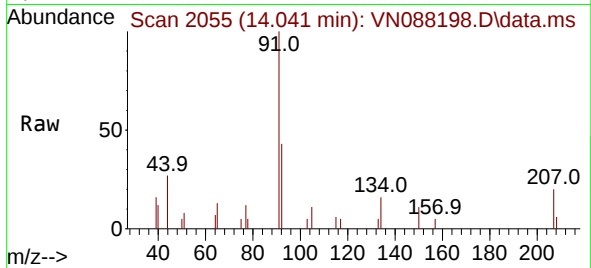




#89
n-Butylbenzene
Concen: 0.379 ug/l
RT: 14.041 min Scan# 2055
Delta R.T. 0.012 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

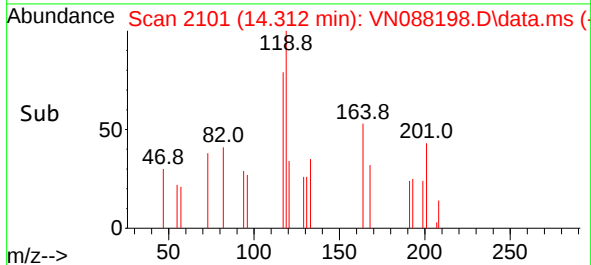
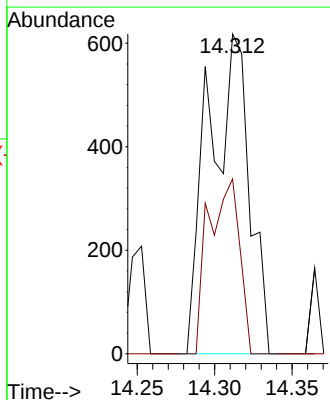
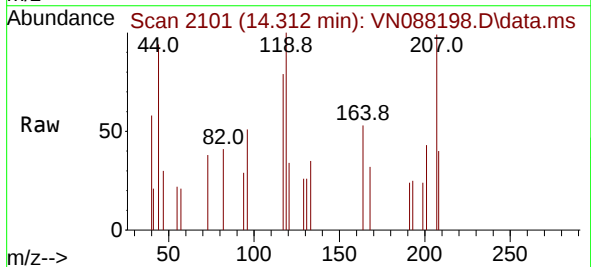
Instrument :
MSVOA_N
ClientSampleId :
VN1106MBL01

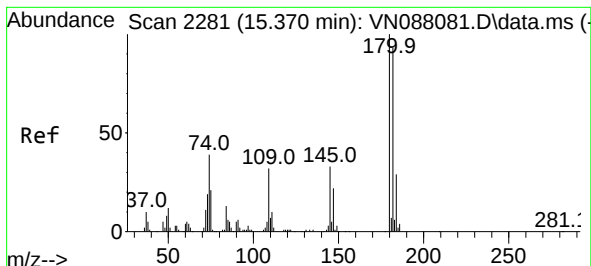
Tgt Ion: 91	Resp: 6418
Ion Ratio	Lower Upper
91	100
92	52.7 25.9 77.8
134	24.0 11.7 35.0



#90
Hexachloroethane
Concen: 0.338 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. -0.000 min
Lab File: VN088198.D
Acq: 06 Nov 2025 11:35

Tgt Ion: 117	Resp: 1119
Ion Ratio	Lower Upper
117	100
201	42.0 29.1 87.4





#93

1,2,4-Trichlorobenzene

Concen: 0.282 ug/l

RT: 15.370 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN088198.D

Acq: 06 Nov 2025 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN1106MBL01

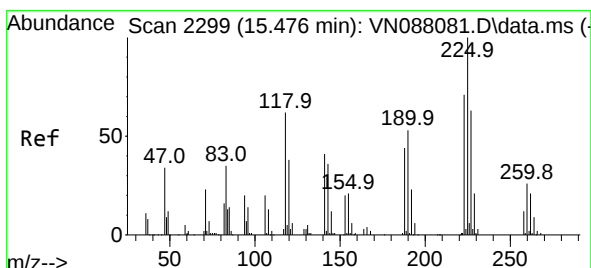
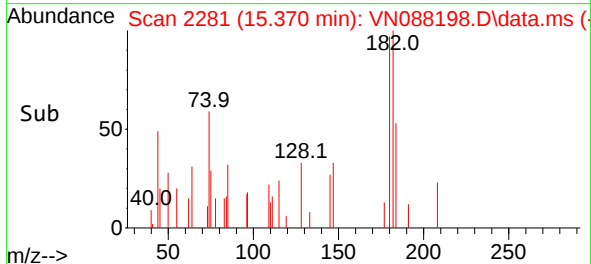
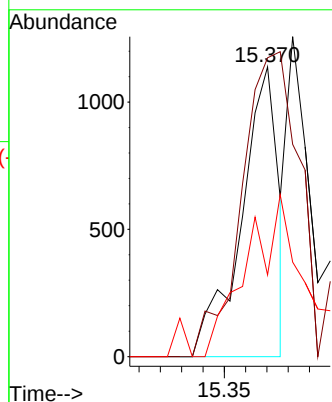
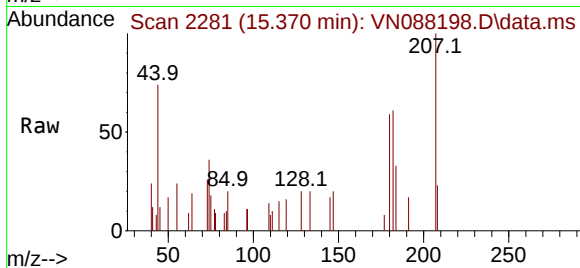
Tgt Ion:180 Resp: 1383

Ion Ratio Lower Upper

180 100

182 173.2 47.6 142.9#

145 82.1 16.5 49.5#



#94

Hexachlorobutadiene

Concen: 1.179 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VN088198.D

Acq: 06 Nov 2025 11:35

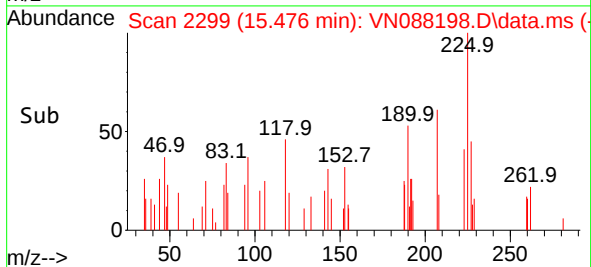
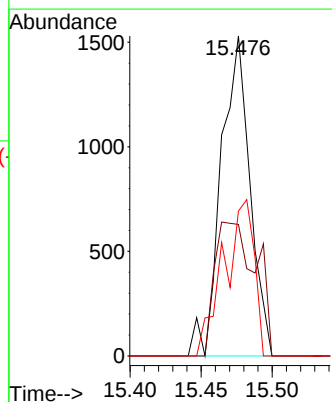
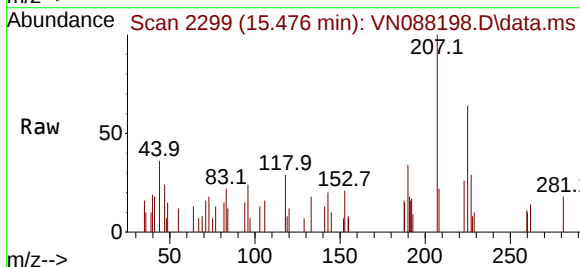
Tgt Ion:225 Resp: 2156

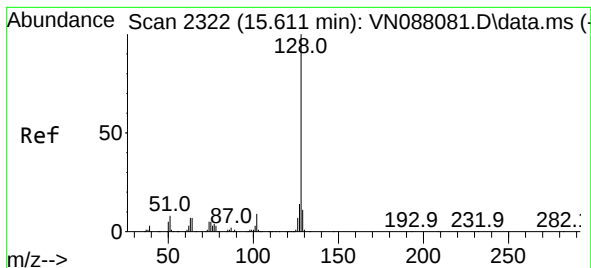
Ion Ratio Lower Upper

225 100

223 59.7 32.0 96.2

227 51.6 32.1 96.5





#95

Naphthalene

Concen: 0.350 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN088198.D

Acq: 06 Nov 2025 11:35

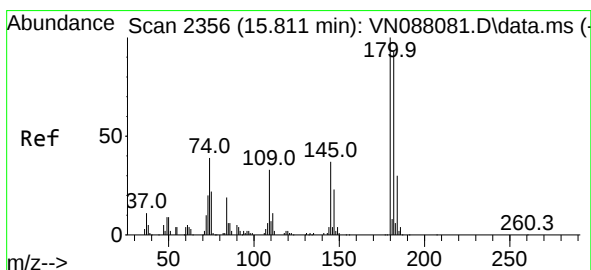
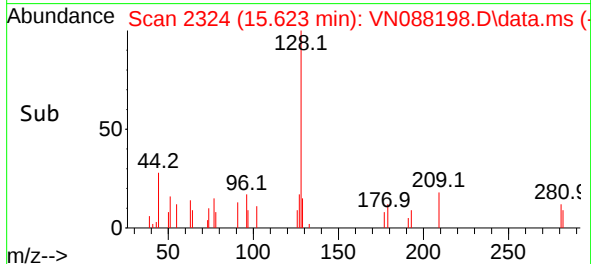
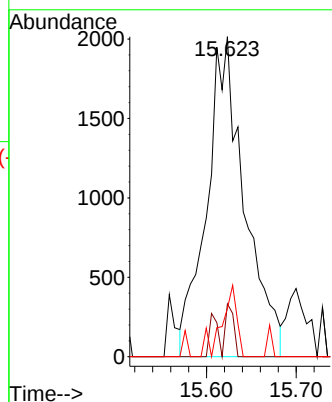
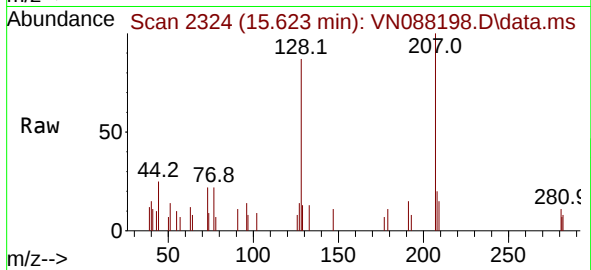
Instrument :

MSVOA_N

ClientSampleId :

VN1106MBL01

Tgt Ion:128	Resp:	5895
Ion Ratio	Lower	Upper
128	100	
127	3.6	10.6 15.8#
129	9.1	8.6 12.8



#96

1,2,3-Trichlorobenzene

Concen: 0.563 ug/l

RT: 15.817 min Scan# 2357

Delta R.T. 0.006 min

Lab File: VN088198.D

Acq: 06 Nov 2025 11:35

Tgt Ion:180	Resp:	2651
Ion Ratio	Lower	Upper
180	100	
182	81.0	46.8 140.3
145	29.0	17.3 52.0

