

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111125\
 Data File : VN088248.D
 Acq On : 11 Nov 2025 12:01
 Operator : JC\MD
 Sample : PB170463TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB170463TB

Quant Time: Nov 12 01:13:08 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)

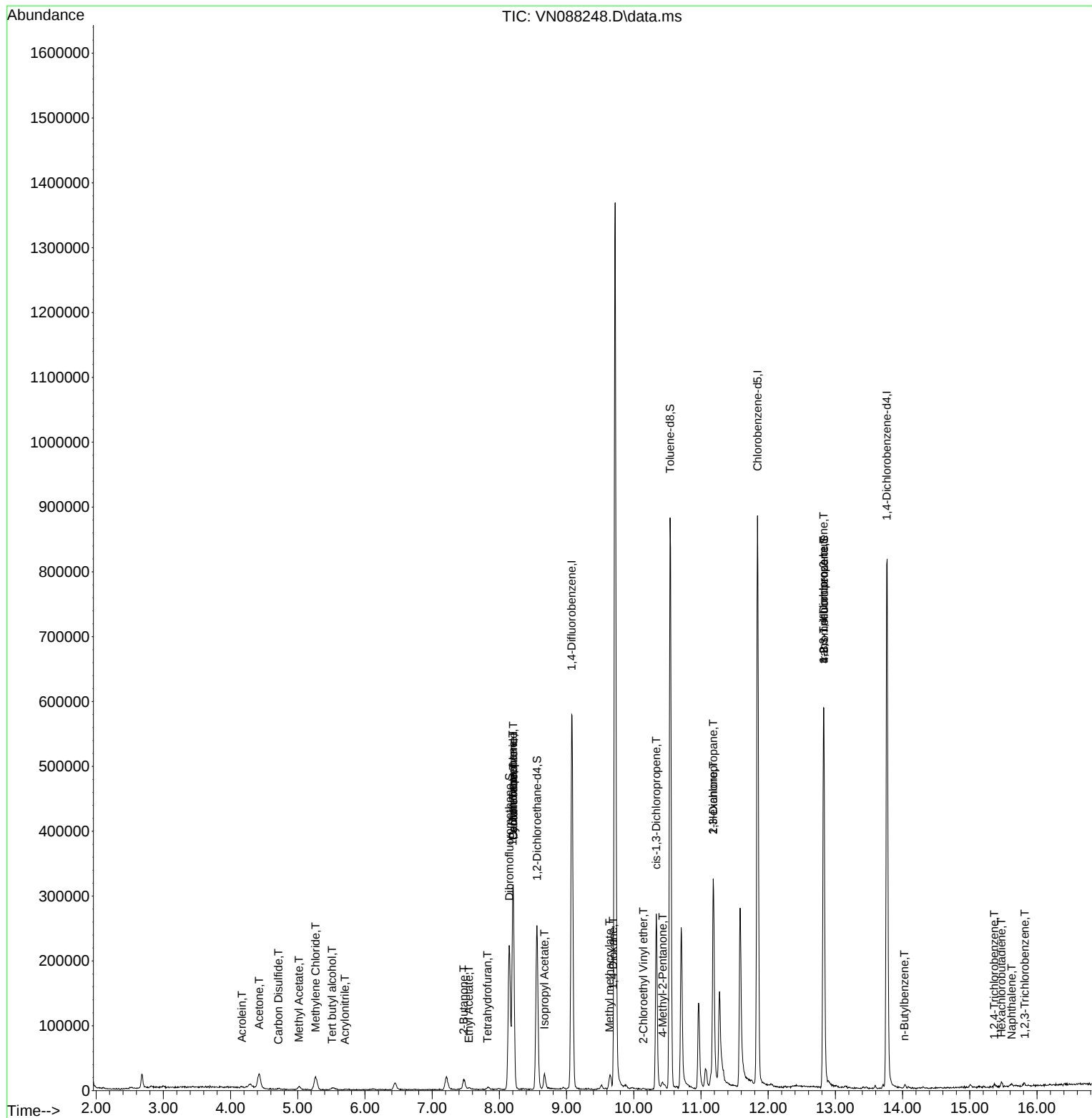
Internal Standards						
1) Pentafluorobenzene	8.206	168	211800	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	483671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	464719	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.764	152	215299	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	208975	57.059	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.120%			
35) Dibromofluoromethane	8.147	113	157643	48.516	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.040%			
50) Toluene-d8	10.541	98	582810	46.550	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.100%			
62) 4-Bromofluorobenzene	12.829	95	220104	49.778	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.560%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.512	59	4696	7.443	ug/l #	84
13) Acrolein	4.171	56	319	0.449	ug/l	85
15) Acrylonitrile	5.700	53	603	0.351	ug/l #	75
16) Acetone	4.424	43	47543	25.839	ug/l	97
17) Carbon Disulfide	4.712	76	2406	0.297	ug/l #	74
18) Methyl Acetate	5.018	43	9059	2.405	ug/l	98
20) Methylene Chloride	5.265	84	14624	4.735	ug/l	95
25) 2-Butanone	7.471	43	27500	11.341	ug/l	97
29) Tetrahydrofuran	7.824	42	2437	1.542	ug/l #	66
31) Cyclohexane	8.206	56	7107	1.386	ug/l #	1
36) 1,1-Dichloropropene	8.200	75	21820	4.599	ug/l #	51
37) Ethyl Acetate	7.547	43	4364	0.713	ug/l #	78
38) Carbon Tetrachloride	8.206	117	25313	5.166	ug/l #	14
43) Isopropyl Acetate	8.671	43	27166	2.888	ug/l #	92
48) Methyl methacrylate	9.641	41	4393	1.011	ug/l #	49
49) 1,4-Dioxane	9.694	88	146	2.703	ug/l #	13
51) 4-Methyl-2-Pentanone	10.429	43	13115	2.356	ug/l #	83
54) cis-1,3-Dichloropropene	10.335	75	48415	8.230	ug/l #	66
57) 1,3-Dichloropropane	11.182	76	3697	0.622	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.141	63	884	0.318	ug/l #	49
59) 2-Hexanone	11.182	43	77804	21.073	ug/l #	54
76) 1,2,3-Trichloropropane	12.823	75	127128	25.826	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	127128	72.044	ug/l #	1
89) n-Butylbenzene	14.029	91	3554	0.247	ug/l	93
93) 1,2,4-Trichlorobenzene	15.364	180	1334	0.320	ug/l	89
94) Hexachlorobutadiene	15.470	225	1194	0.768	ug/l	96
95) Naphthalene	15.623	128	4731	0.331	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.817	180	1952	0.488	ug/l	81

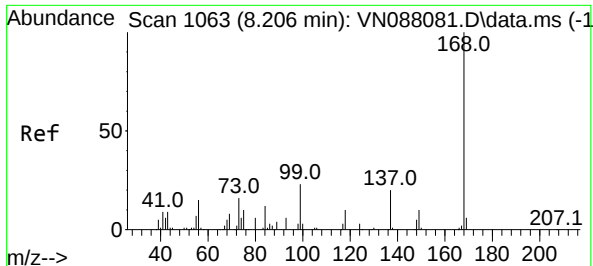
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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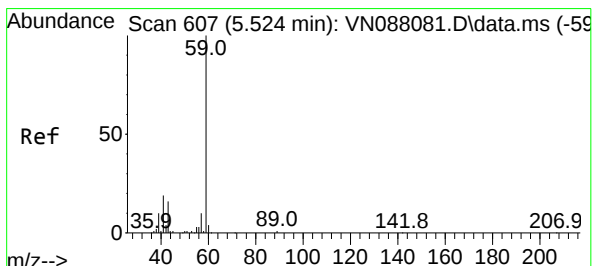
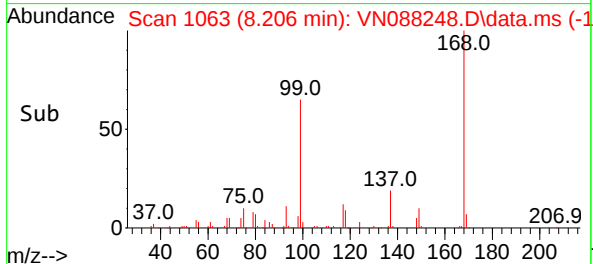
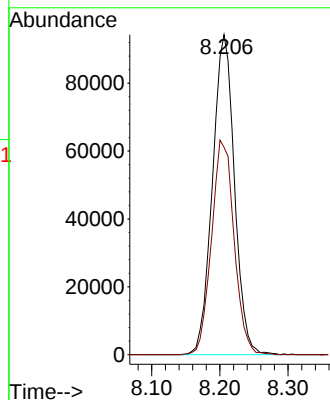
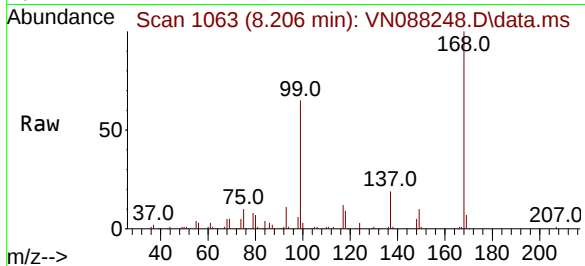




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

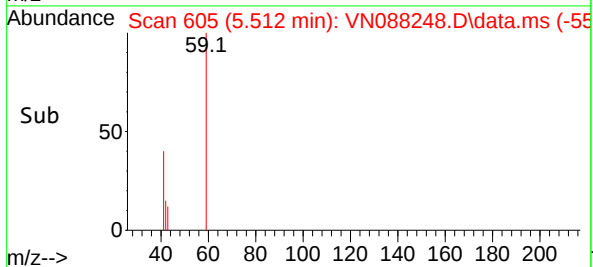
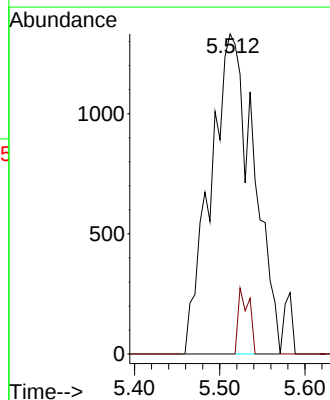
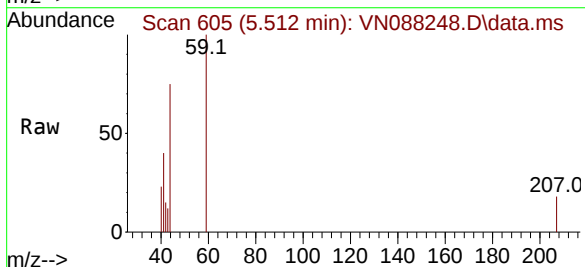
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

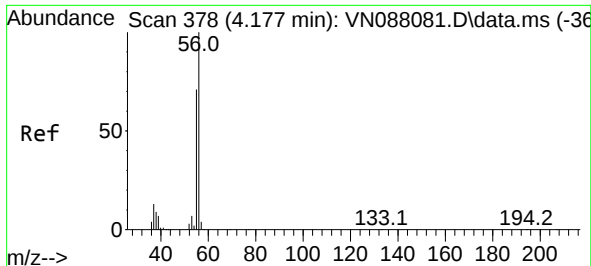
Tgt Ion:168 Resp: 211800
Ion Ratio Lower Upper
168 100
99 64.8 57.2 85.8



#11
Tert butyl alcohol
Concen: 7.443 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 59 Resp: 4696
Ion Ratio Lower Upper
59 100
57 5.2 9.0 13.4#

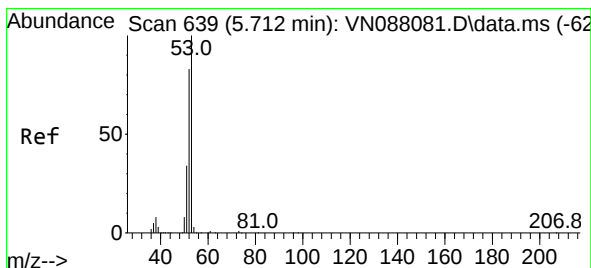
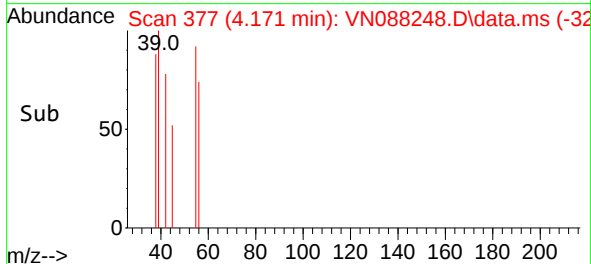
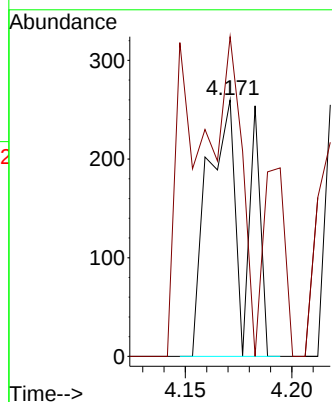
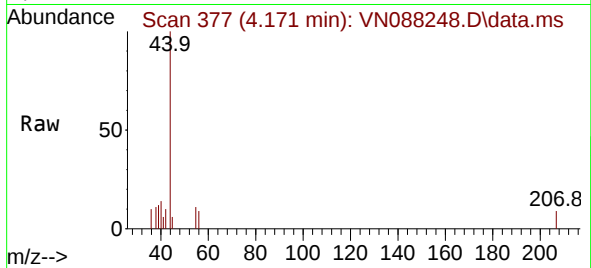




#13
Acrolein
Concen: 0.449 ug/l
RT: 4.171 min Scan# 319
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

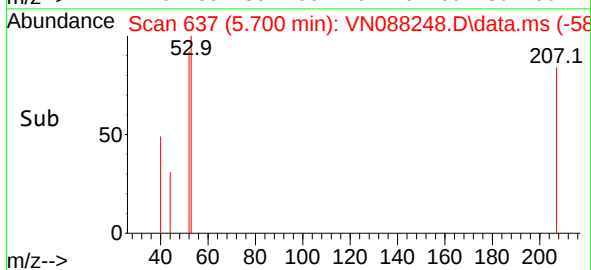
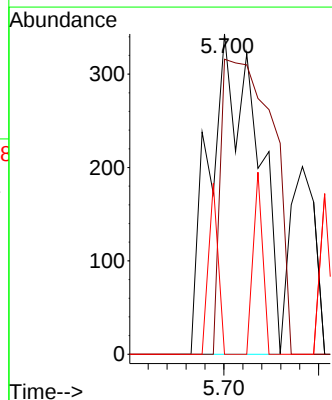
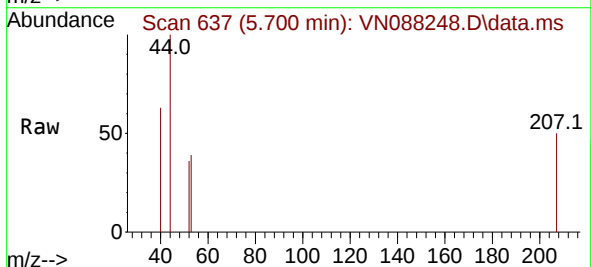
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

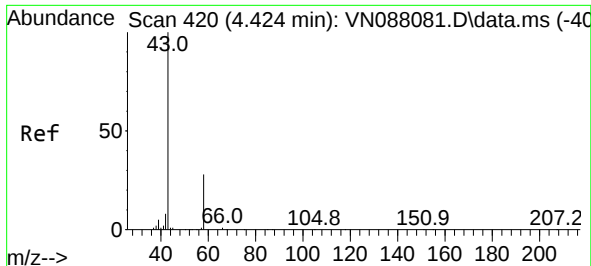
Tgt Ion: 56 Resp: 319
Ion Ratio Lower Upper
56 100
55 58.9 57.3 85.9



#15
Acrylonitrile
Concen: 0.351 ug/l
RT: 5.700 min Scan# 637
Delta R.T. -0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 53 Resp: 603
Ion Ratio Lower Upper
53 100
52 99.5 67.6 101.4
51 10.8 30.1 45.1#

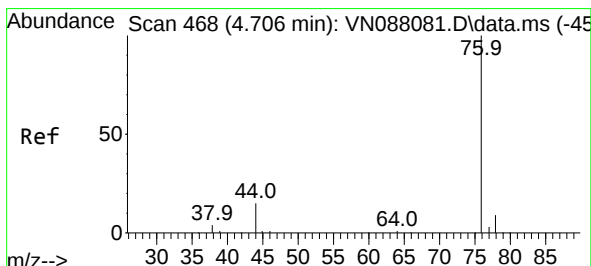
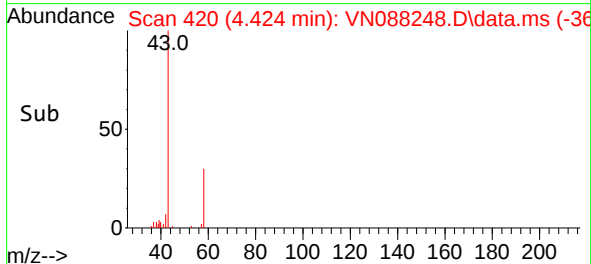
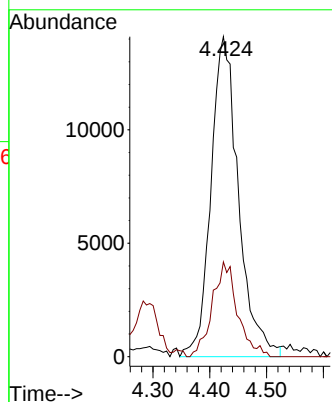
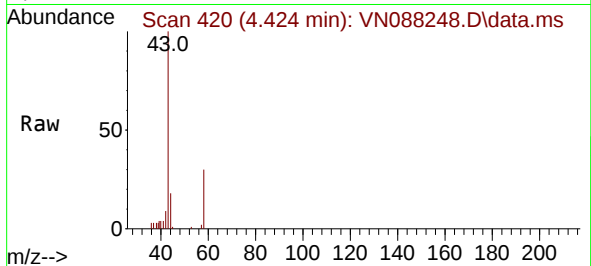




#16
Acetone
Concen: 25.839 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

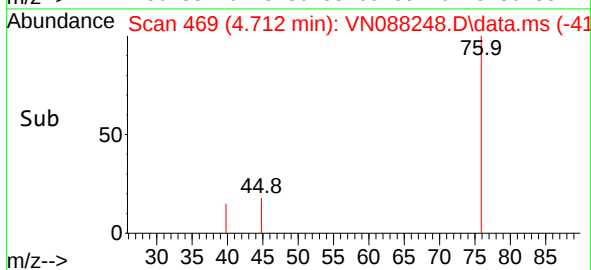
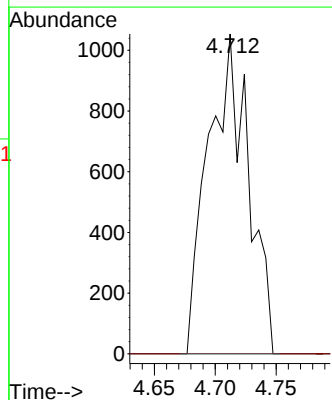
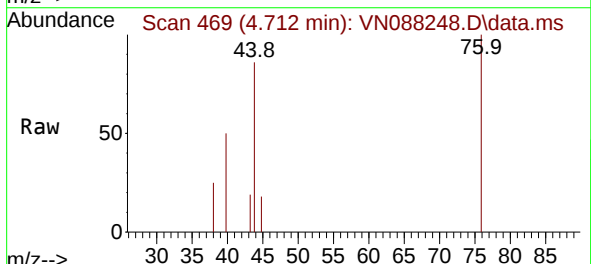
Instrument :
MSVOA_N
ClientSampleId :
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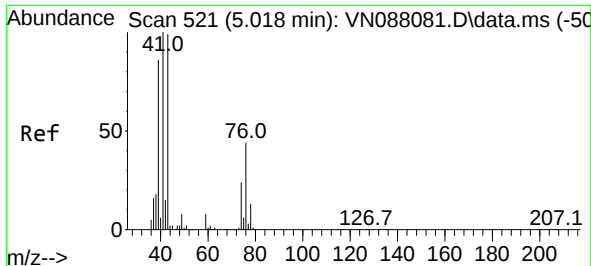
Tgt Ion: 43 Resp: 47543
Ion Ratio Lower Upper
43 100
58 29.6 22.6 33.8



#17
Carbon Disulfide
Concen: 0.297 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 76 Resp: 2406
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

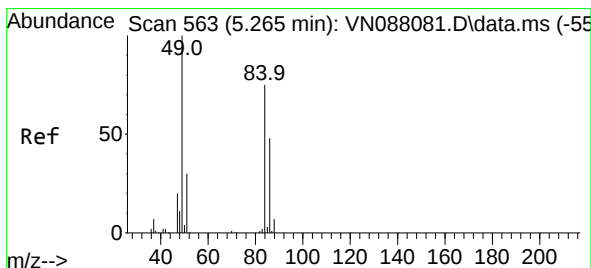
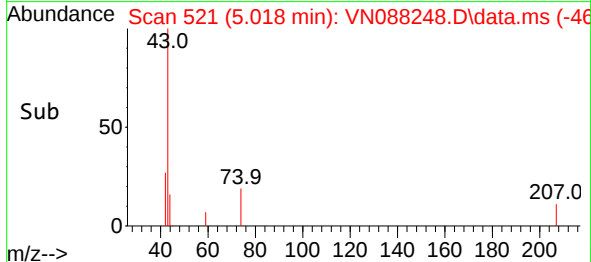
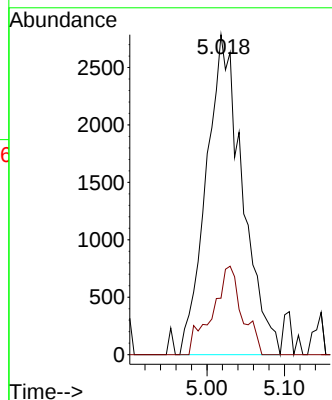
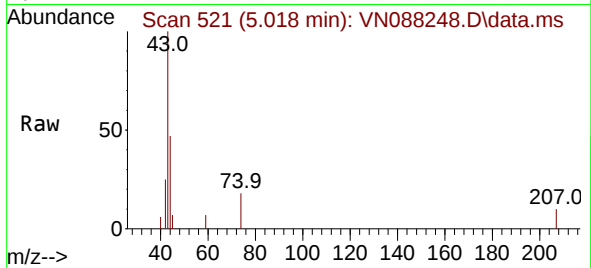




#18
Methyl Acetate
Concen: 2.405 ug/l
RT: 5.018 min Scan# 518
Delta R.T. 0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

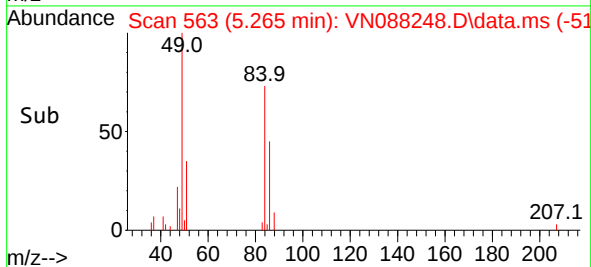
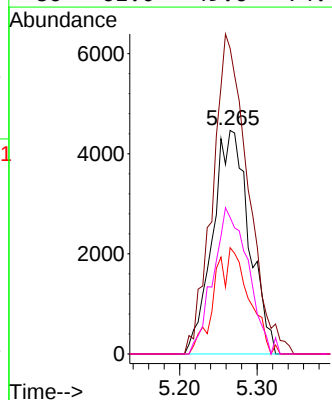
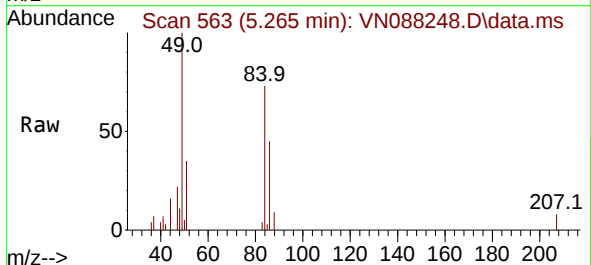
Instrument :
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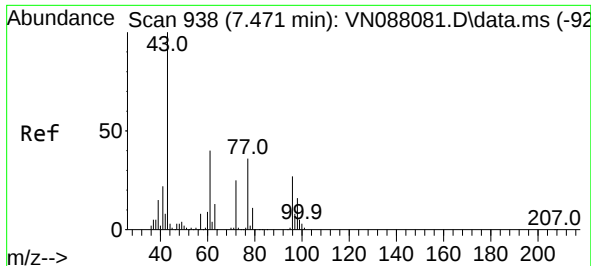
Tgt Ion: 43 Resp: 9059
Ion Ratio Lower Upper
43 100
74 22.7 17.6 26.4



#20
Methylene Chloride
Concen: 4.735 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 84 Resp: 14624
Ion Ratio Lower Upper
84 100
49 136.6 103.4 155.2
51 47.5 33.8 50.8
86 61.0 49.6 74.4

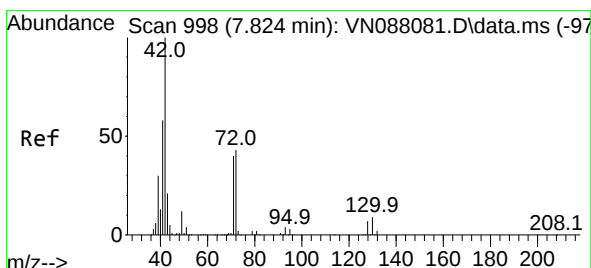
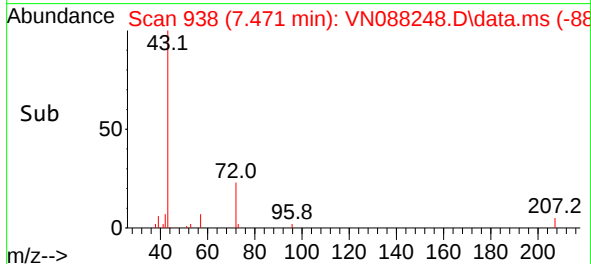
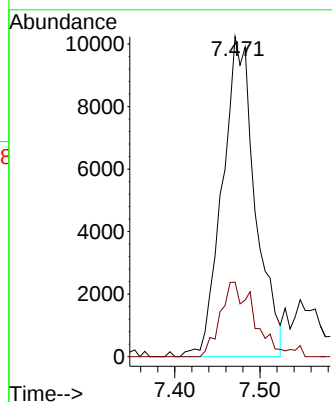
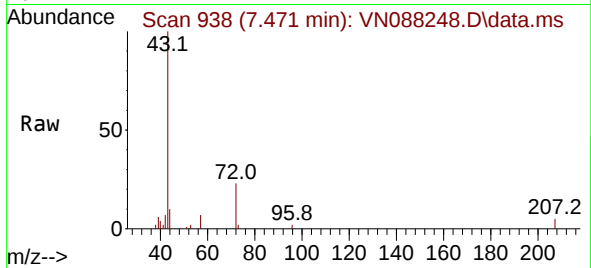




#25
2-Butanone
Concen: 11.341 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

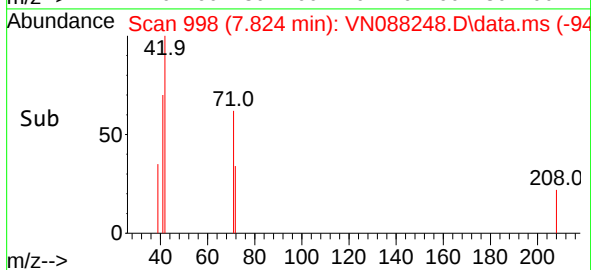
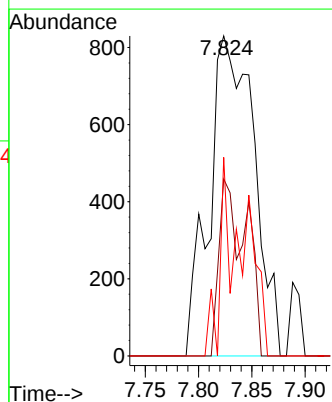
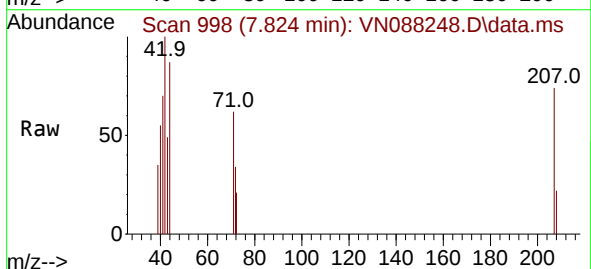
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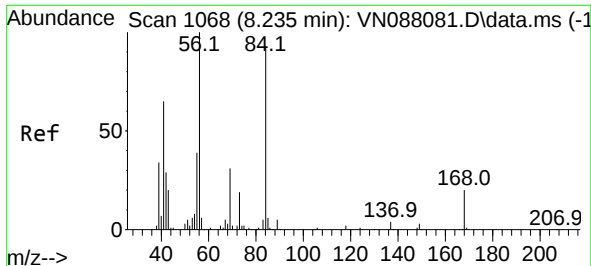
Tgt Ion: 43 Resp: 27500
Ion Ratio Lower Upper
43 100
72 23.3 19.9 29.9



#29
Tetrahydrofuran
Concen: 1.542 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 42 Resp: 2437
Ion Ratio Lower Upper
42 100
72 19.6 33.7 50.5#
71 20.1 31.9 47.9#

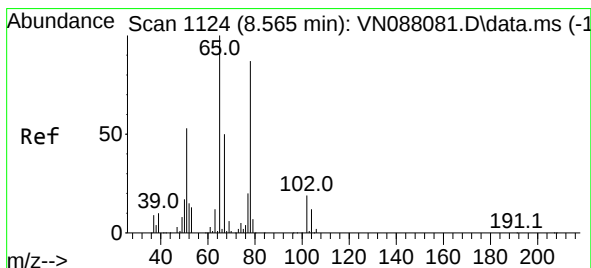
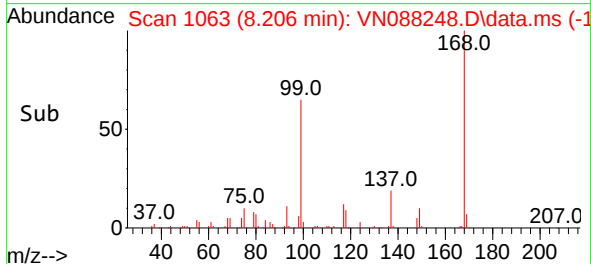
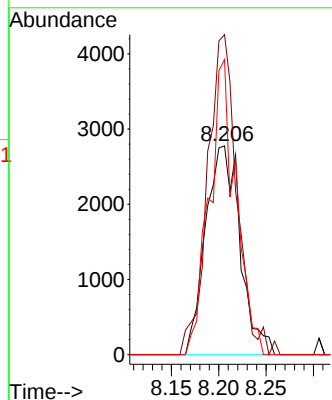
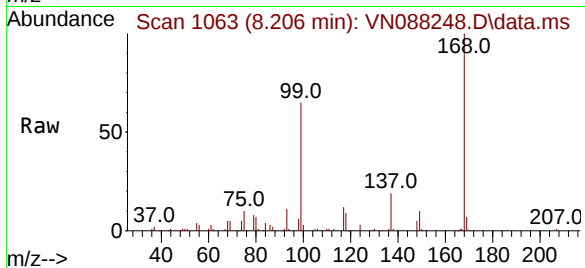




#31
Cyclohexane
Concen: 1.386 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

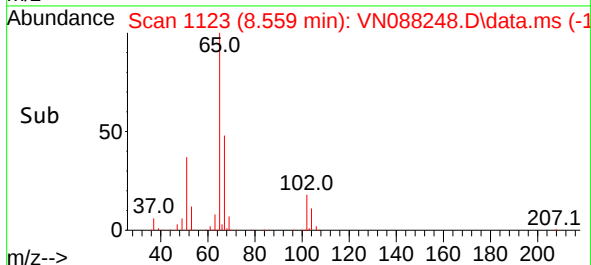
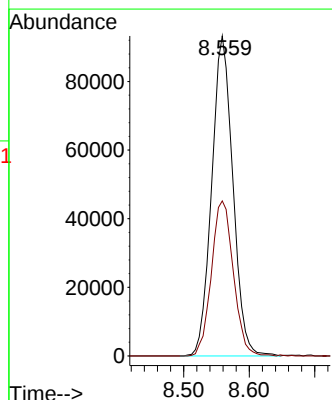
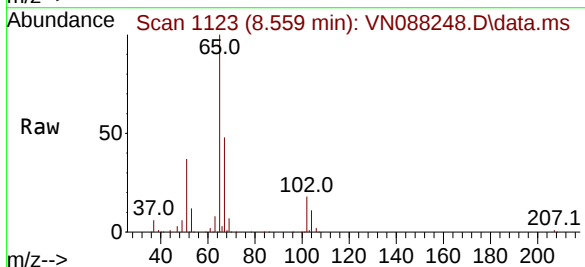
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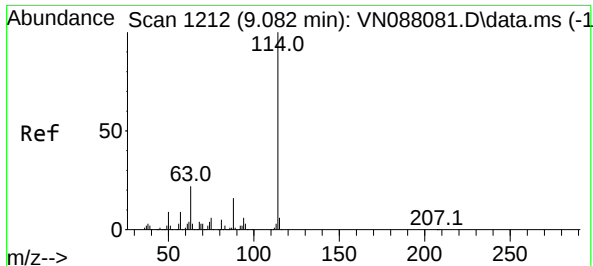
Tgt Ion: 56 Resp: 7107
Ion Ratio Lower Upper
56 100
69 153.3 23.7 35.5#
84 141.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 57.059 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 65 Resp: 208975
Ion Ratio Lower Upper
65 100
67 50.3 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN088248.D

Acq: 11 Nov 2025 12:01

Instrument :

MSVOA_N

ClientSampleId :

PB170463TB

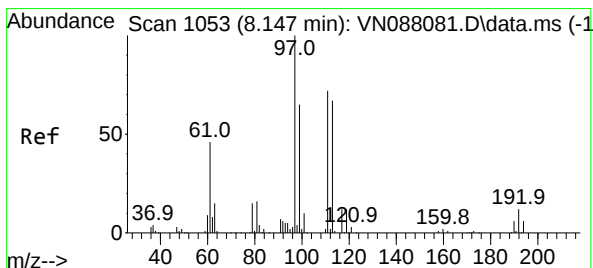
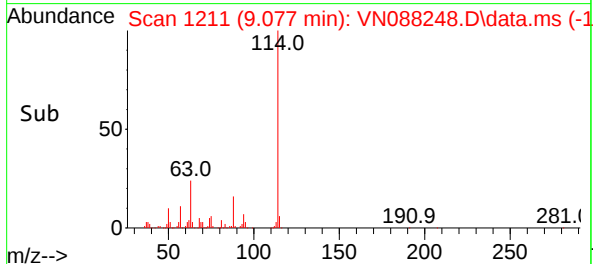
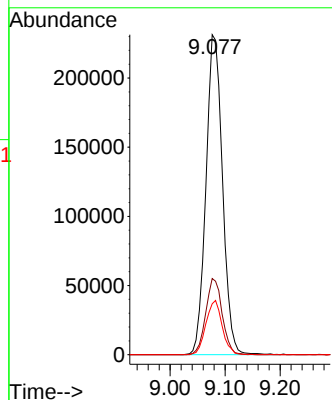
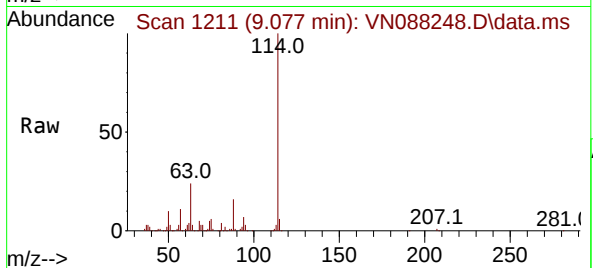
Tgt Ion:114 Resp: 483671

Ion Ratio Lower Upper

114 100

63 23.8 0.0 45.2

88 15.9 0.0 33.4



#35

Dibromofluoromethane

Concen: 48.516 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088248.D

Acq: 11 Nov 2025 12:01

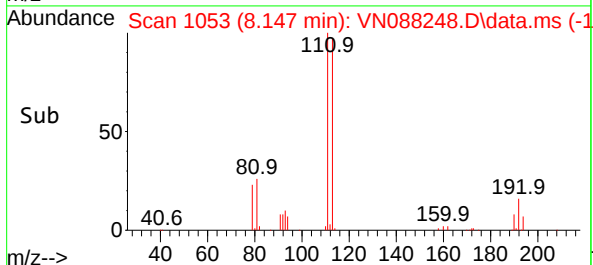
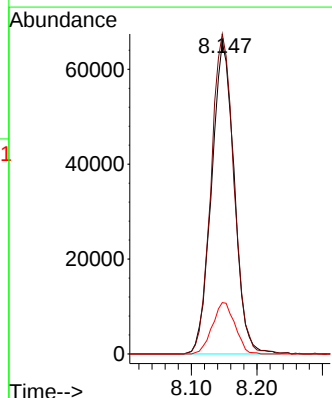
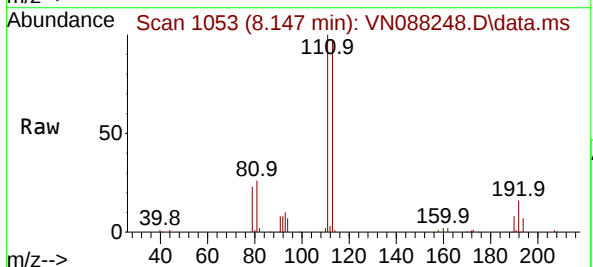
Tgt Ion:113 Resp: 157643

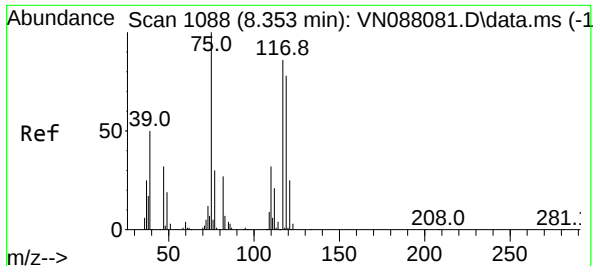
Ion Ratio Lower Upper

113 100

111 103.5 82.8 124.2

192 16.4 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.599 ug/l

RT: 8.200 min Scan# 1

Delta R.T. -0.153 min

Lab File: VN088248.D

Acq: 11 Nov 2025 12:01

Instrument :

MSVOA_N

ClientSampleId :

PB170463TB

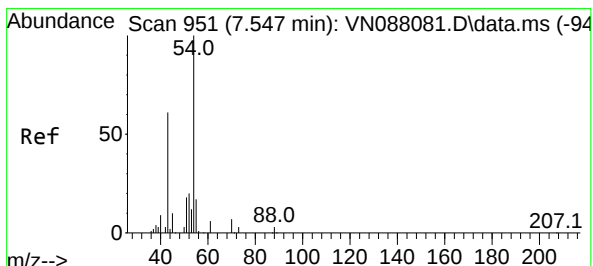
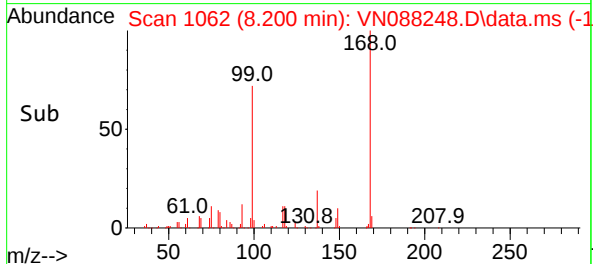
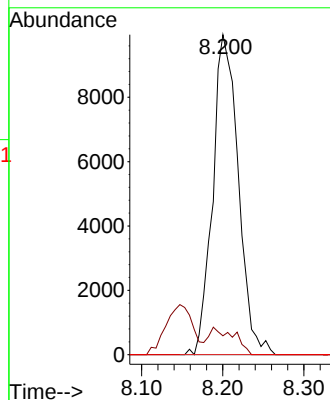
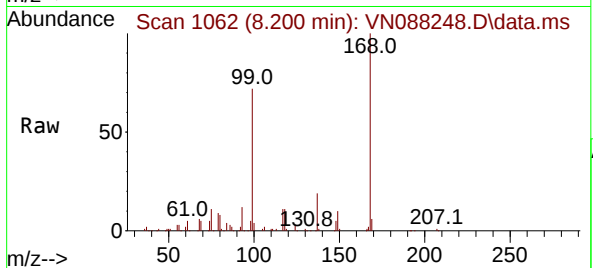
Tgt Ion: 75 Resp: 21820

Ion Ratio Lower Upper

75 100

110 8.4 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.713 ug/l

RT: 7.547 min Scan# 951

Delta R.T. -0.000 min

Lab File: VN088248.D

Acq: 11 Nov 2025 12:01

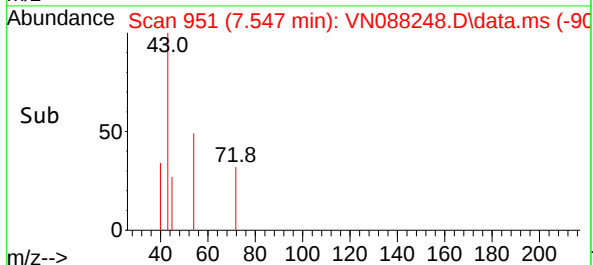
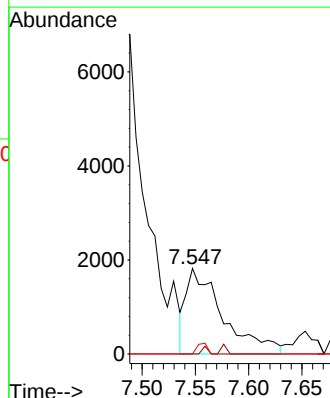
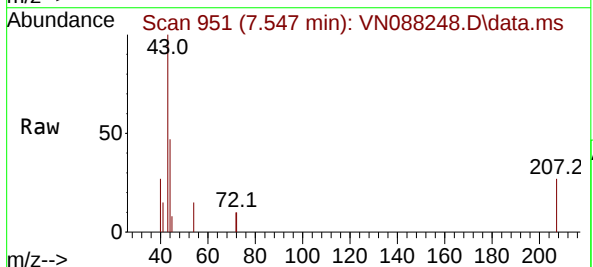
Tgt Ion: 43 Resp: 4364

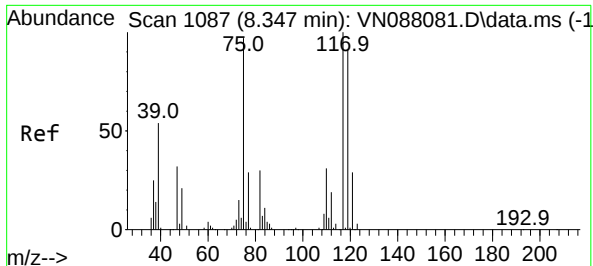
Ion Ratio Lower Upper

43 100

61 1.3 9.3 13.9#

70 3.5 7.0 10.6#

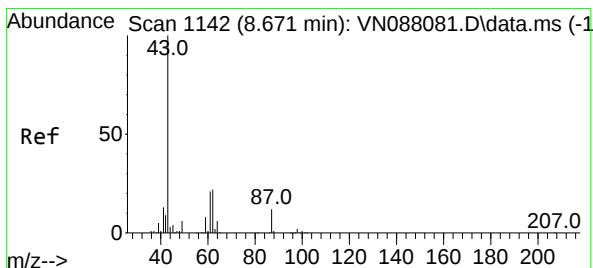
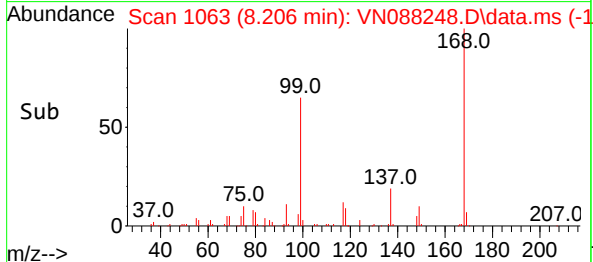
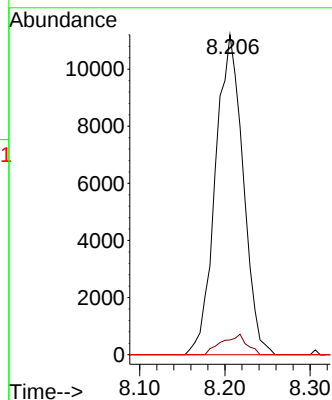
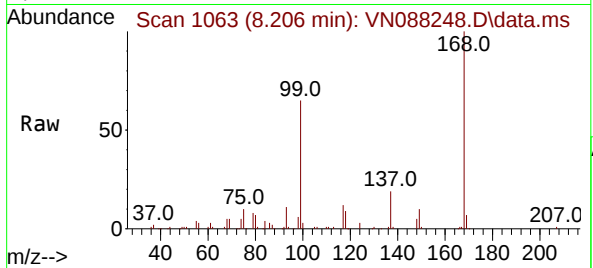




#38
Carbon Tetrachloride
Concen: 5.166 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

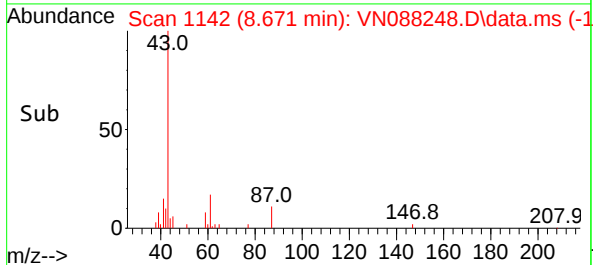
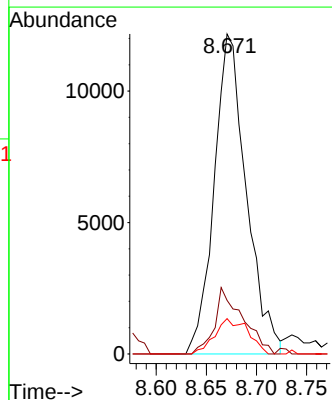
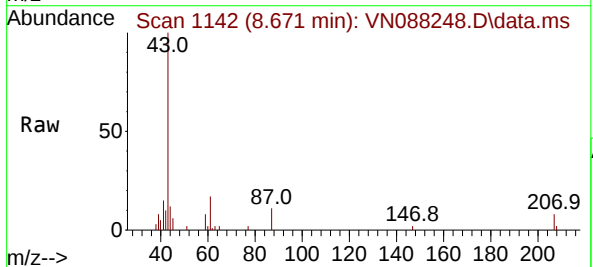
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

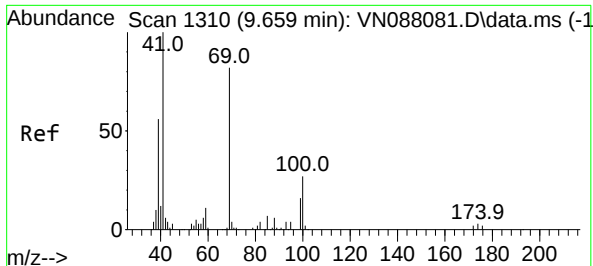
Tgt Ion:117 Resp: 25313
Ion Ratio Lower Upper
117 100
119 4.6 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.888 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 43 Resp: 27166
Ion Ratio Lower Upper
43 100
61 18.2 18.8 28.2#
87 11.3 9.6 14.4

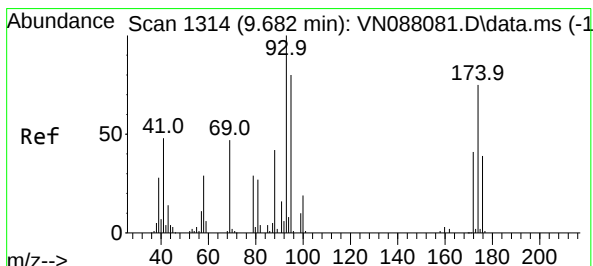
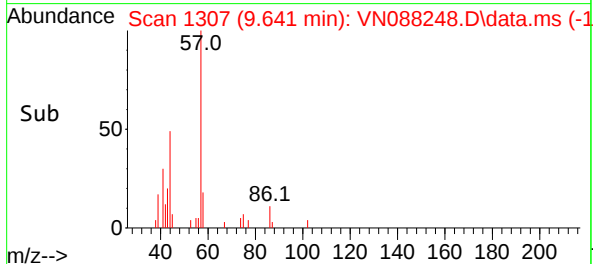
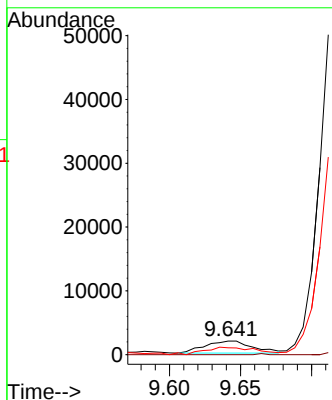
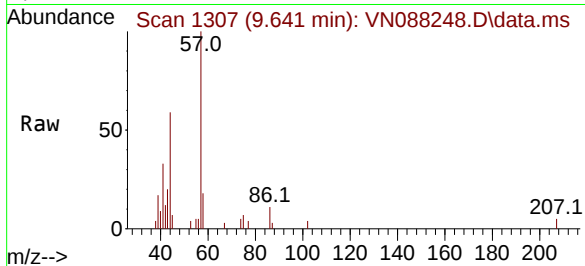




#48
Methyl methacrylate
Concen: 1.011 ug/l
RT: 9.641 min Scan# 1310
Delta R.T. -0.024 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

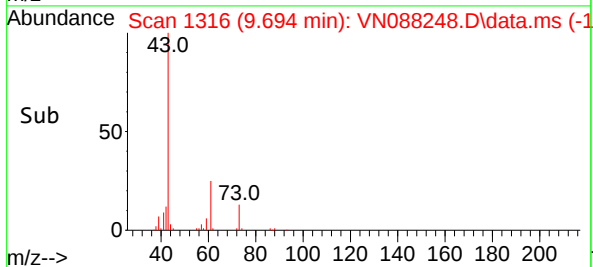
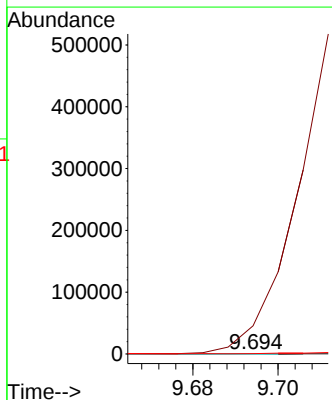
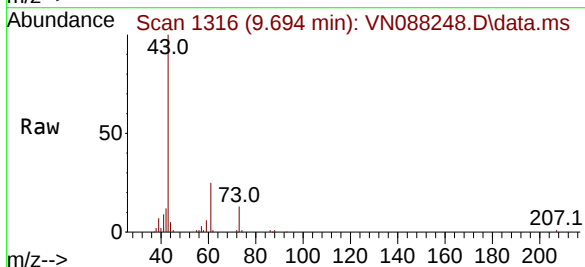
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

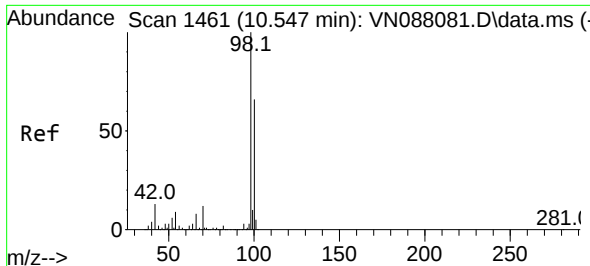
Tgt Ion: 41 Resp: 4393
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 69.3 52.9 79.3



#49
1,4-Dioxane
Concen: 2.703 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.012 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 88 Resp: 146
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 57.9 86.9#

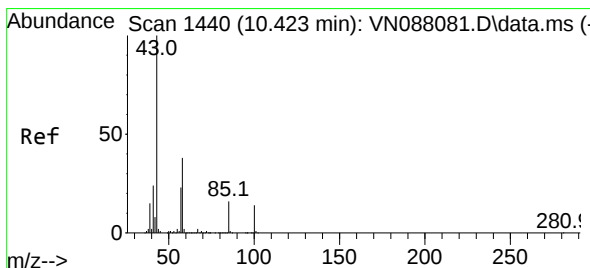
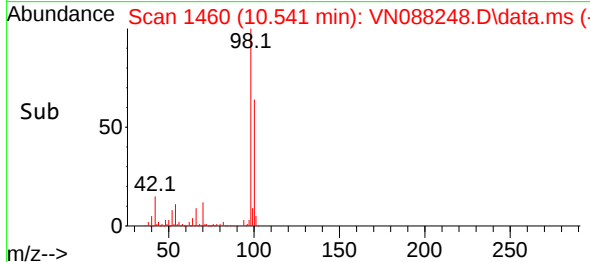
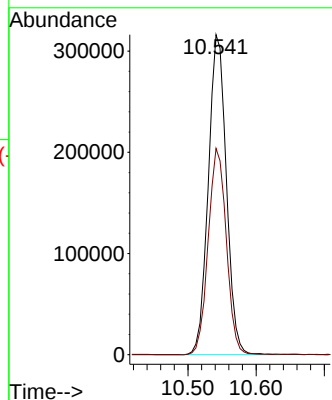
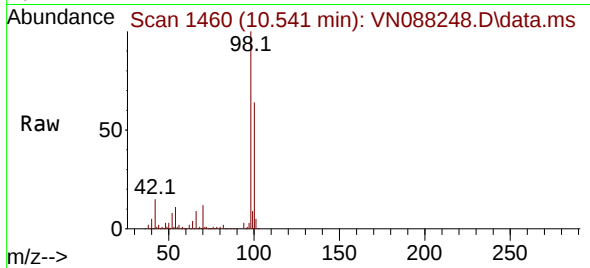




#50
Toluene-d8
Concen: 46.550 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

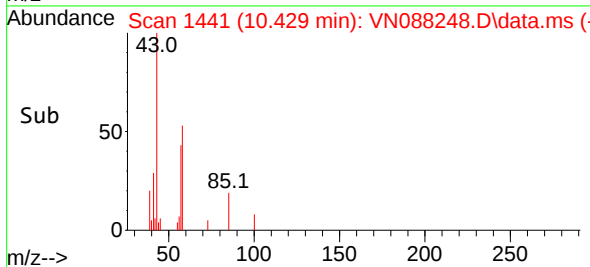
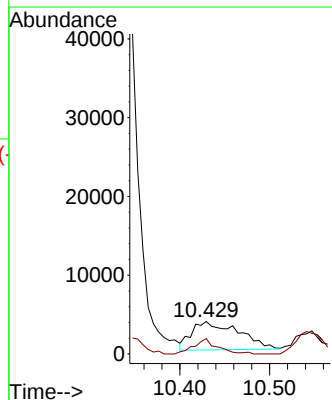
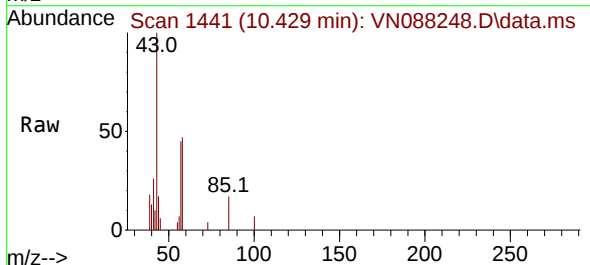
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

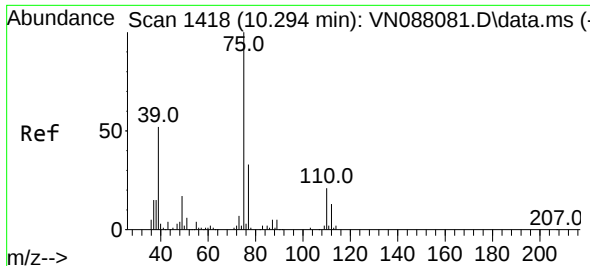
Tgt Ion: 98 Resp: 582810
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 2.356 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 43 Resp: 13115
Ion Ratio Lower Upper
43 100
58 27.0 29.6 44.4#

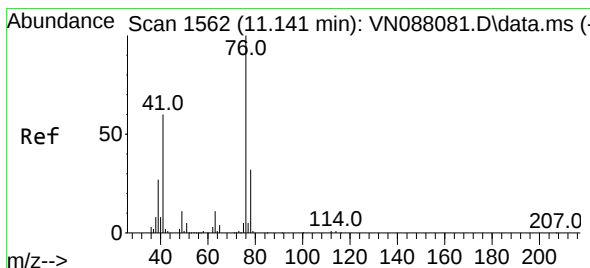
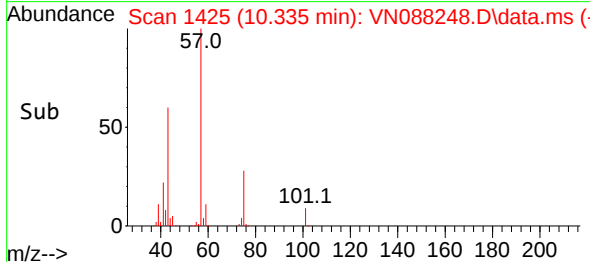
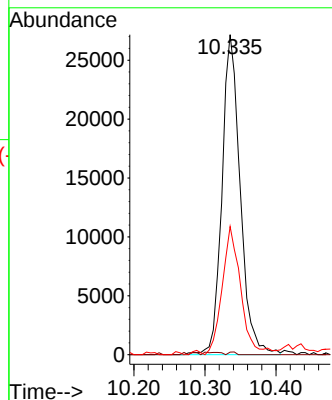
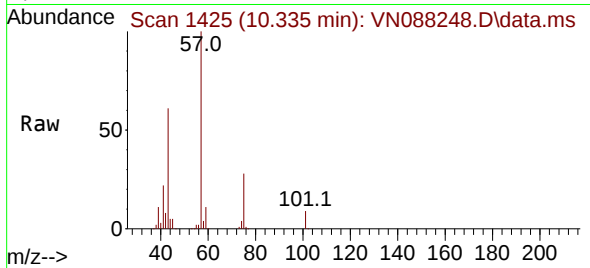




#54
 cis-1,3-Dichloropropene
 Concen: 8.230 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN088248.D
 Acq: 11 Nov 2025 12:01

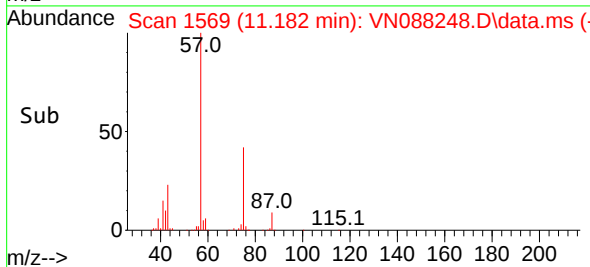
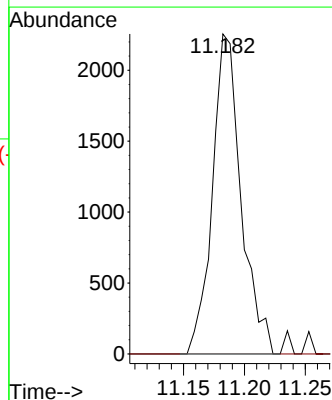
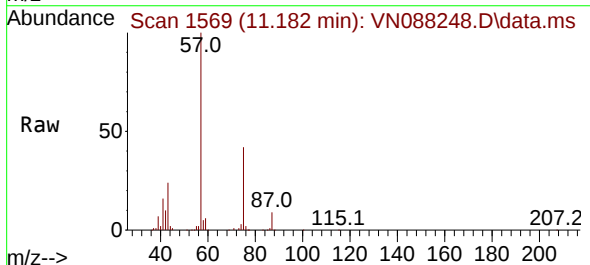
Instrument :
 MSVOA_N
 ClientSampleId :
 PB170463TB

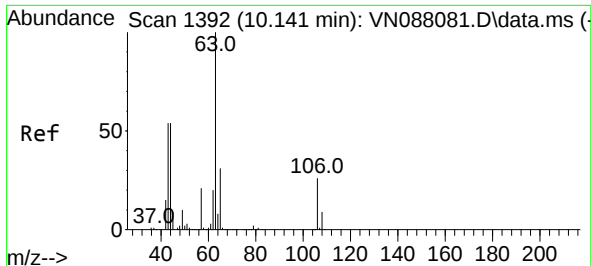
Tgt Ion: 75 Resp: 48415
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.6 37.0#
 39 39.4 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.622 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN088248.D
 Acq: 11 Nov 2025 12:01

Tgt Ion: 76 Resp: 3697
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

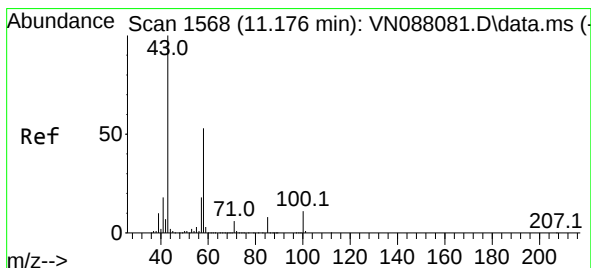
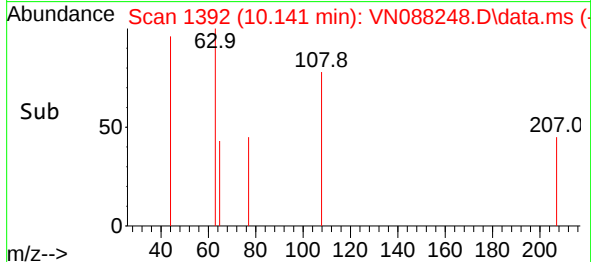
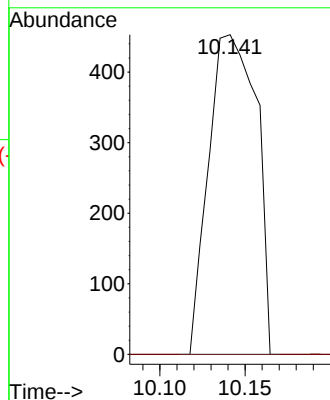
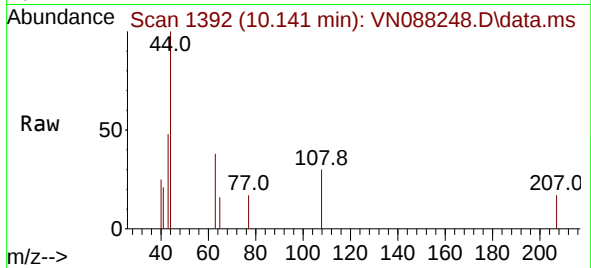




#58
2-Chloroethyl Vinyl ether
Concen: 0.318 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

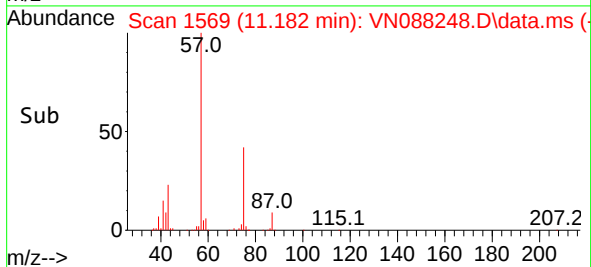
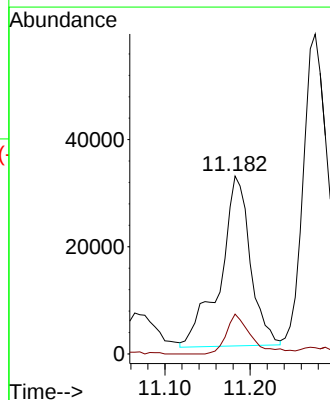
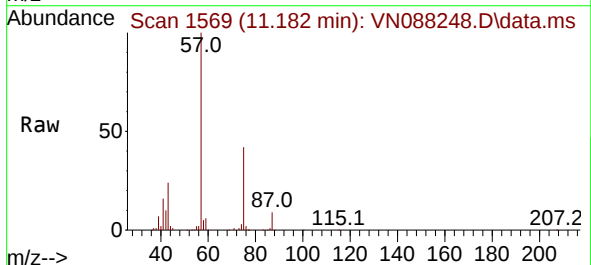
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

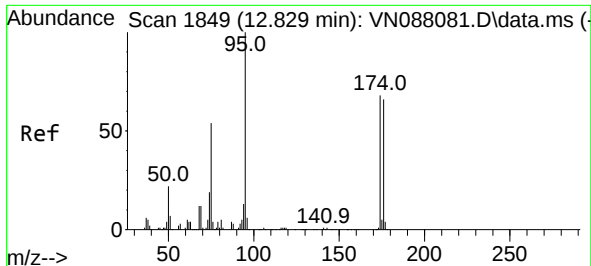
Tgt Ion: 63 Resp: 884
Ion Ratio Lower Upper
63 100
106 0.0 21.1 31.7#



#59
2-Hexanone
Concen: 21.073 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 43 Resp: 77804
Ion Ratio Lower Upper
43 100
58 19.6 25.9 77.8#

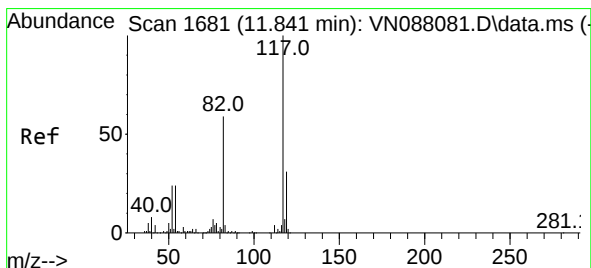
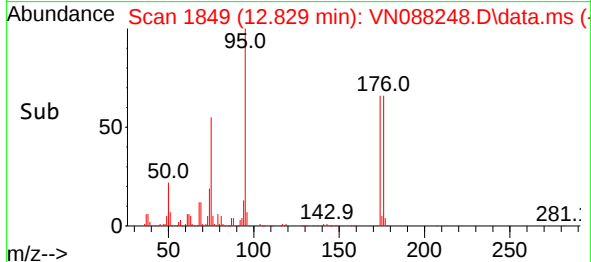
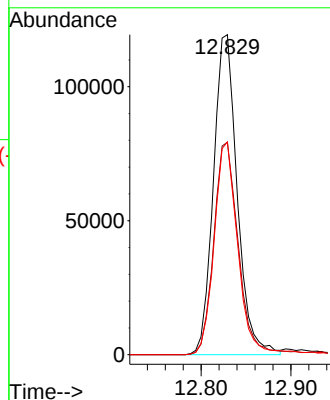
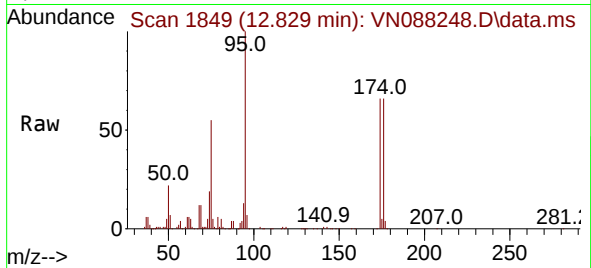




#62
4-Bromofluorobenzene
Concen: 49.778 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

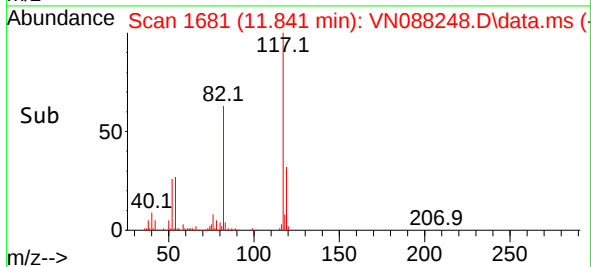
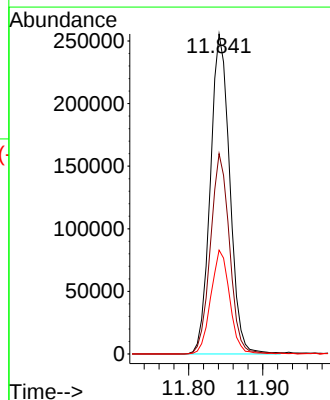
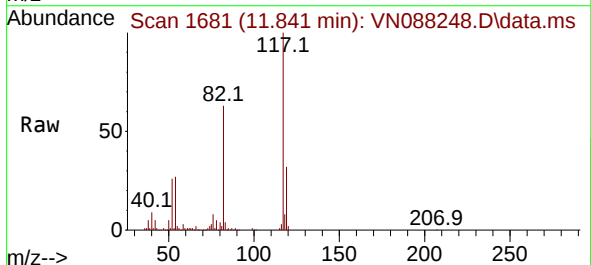
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

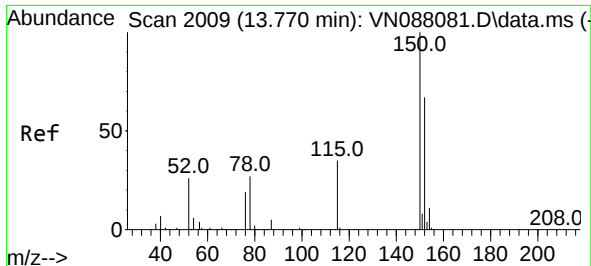
Tgt Ion: 95 Resp: 220104
Ion Ratio Lower Upper
95 100
174 68.5 0.0 138.4
176 66.7 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 117 Resp: 464719
Ion Ratio Lower Upper
117 100
82 62.6 47.4 71.2
119 32.4 24.3 36.5

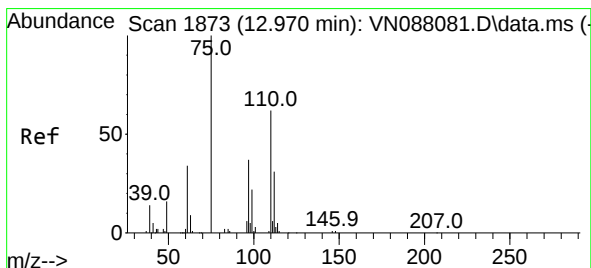
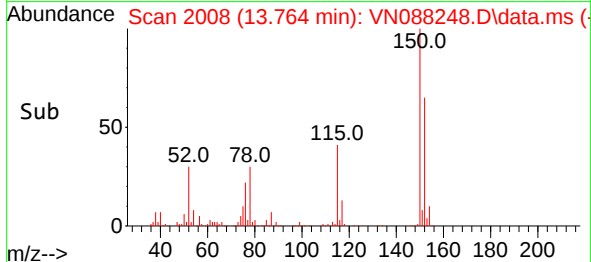
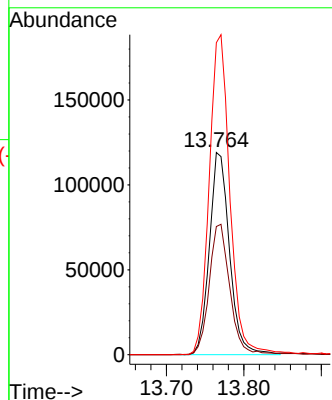
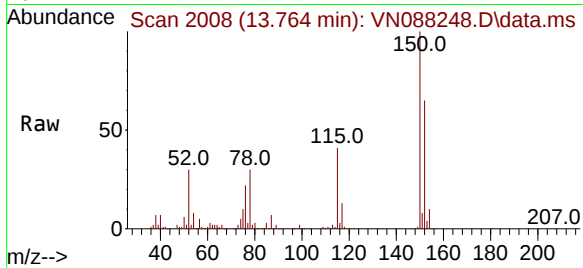




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.764 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

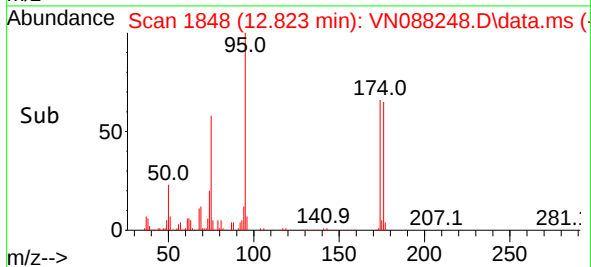
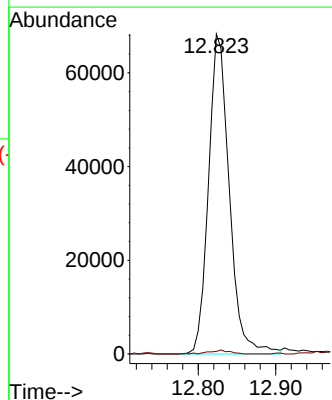
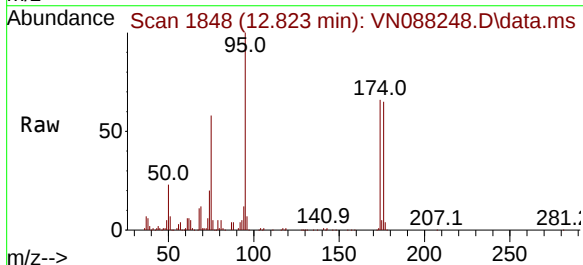
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

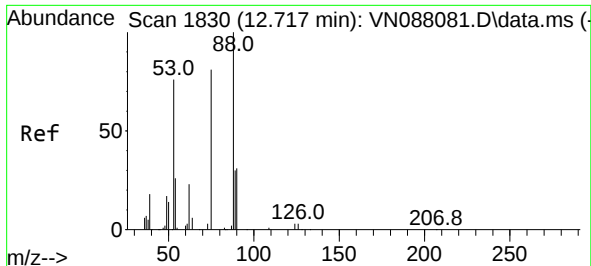
Tgt Ion:152 Resp: 215299
Ion Ratio Lower Upper
152 100
115 65.9 32.3 96.8
150 162.5 0.0 351.0



#76
1,2,3-Trichloropropane
Concen: 25.826 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 75 Resp: 127128
Ion Ratio Lower Upper
75 100
77 1.2 89.1 267.4#

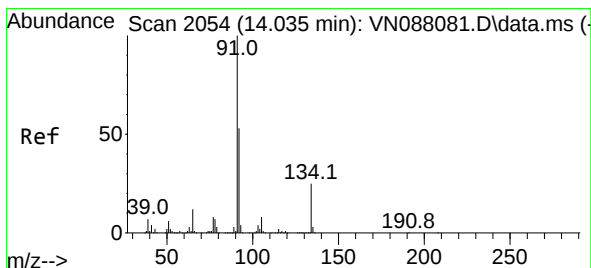
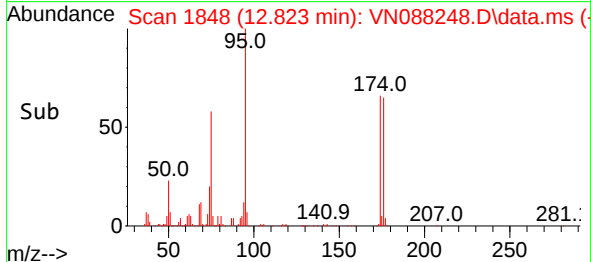
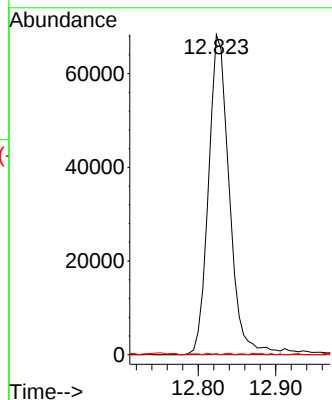
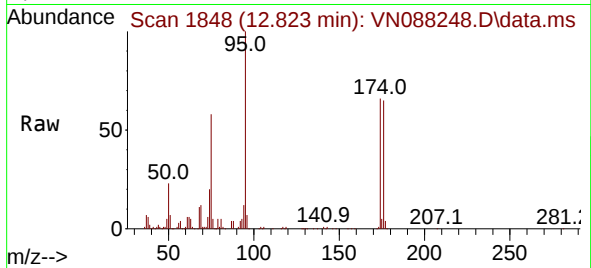




#81
trans-1,4-Dichloro-2-butene
Concen: 72.044 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

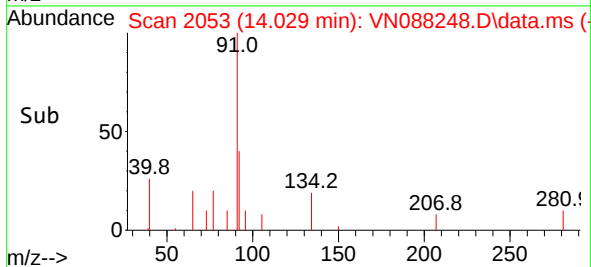
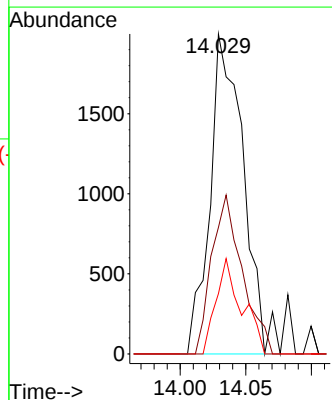
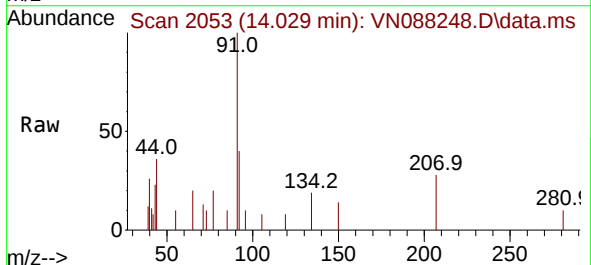
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

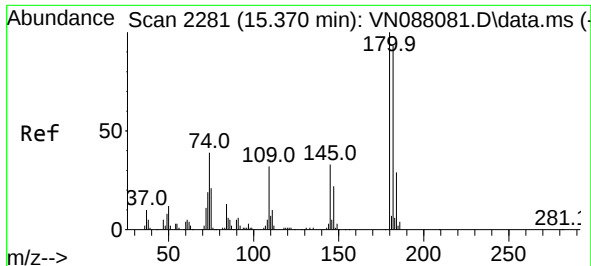
Tgt Ion: 75 Resp: 127128
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.1 35.6 53.4#



#89
n-Butylbenzene
Concen: 0.247 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion: 91 Resp: 3554
Ion Ratio Lower Upper
91 100
92 45.4 25.9 77.8
134 22.8 11.7 35.0

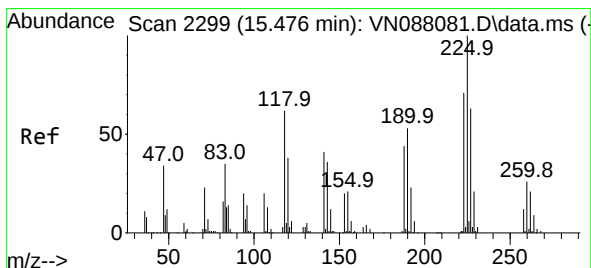
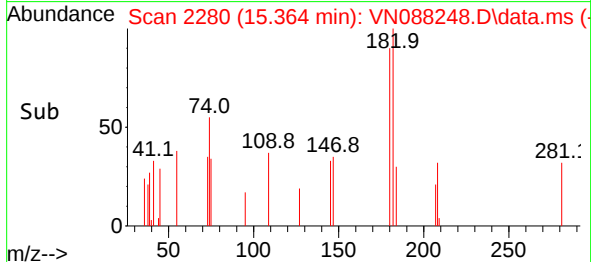
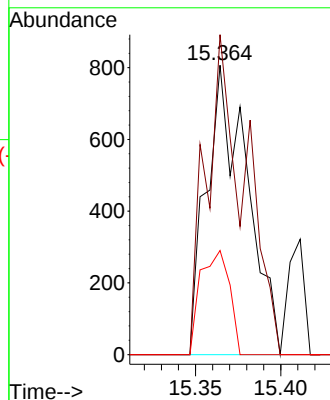
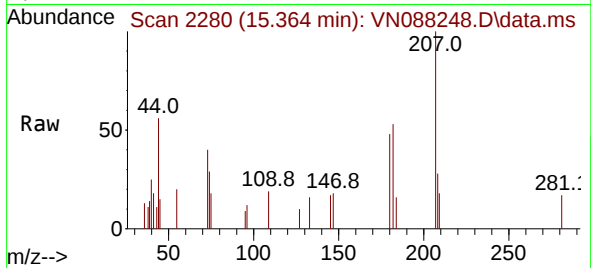




#93
1,2,4-Trichlorobenzene
Concen: 0.320 ug/l
RT: 15.364 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

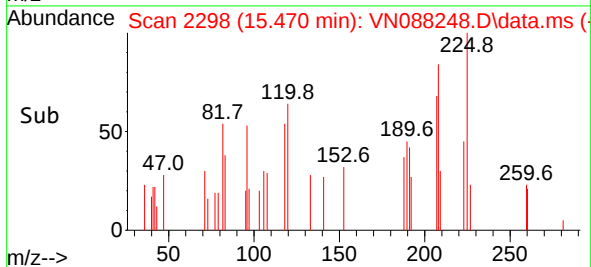
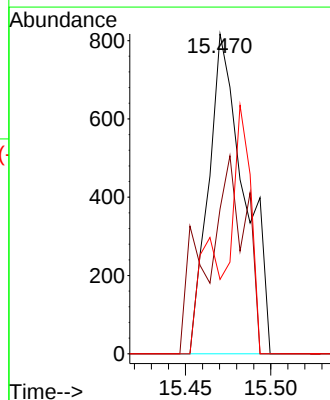
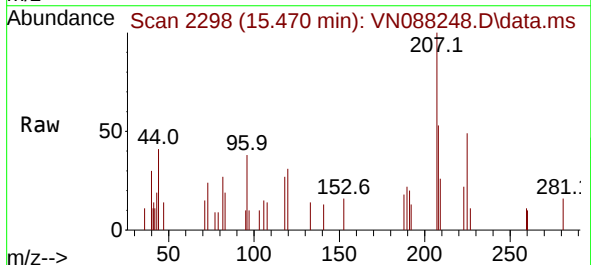
Instrument :
MSVOA_N
ClientSampleId :
PB170463TB

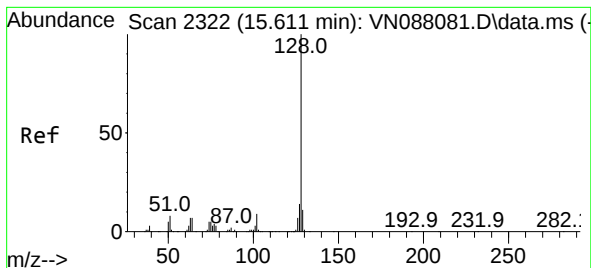
Tgt Ion:180 Resp: 1334
Ion Ratio Lower Upper
180 100
182 105.4 47.6 142.9
145 25.6 16.5 49.5



#94
Hexachlorobutadiene
Concen: 0.768 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088248.D
Acq: 11 Nov 2025 12:01

Tgt Ion:225 Resp: 1194
Ion Ratio Lower Upper
225 100
223 67.4 32.0 96.2
227 61.1 32.1 96.5





#95

Naphthalene

Concen: 0.331 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN088248.D

Acq: 11 Nov 2025 12:01

Instrument :

MSVOA_N

ClientSampleId :

PB170463TB

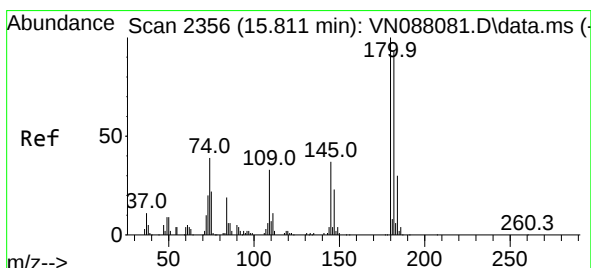
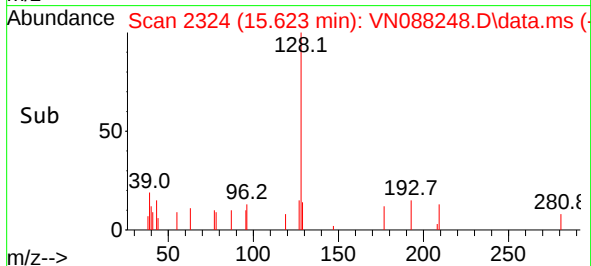
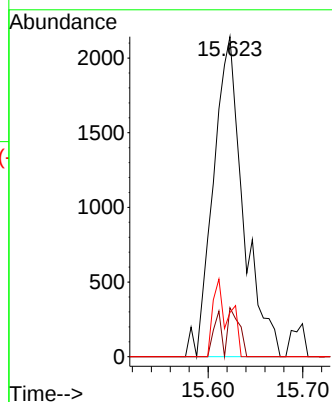
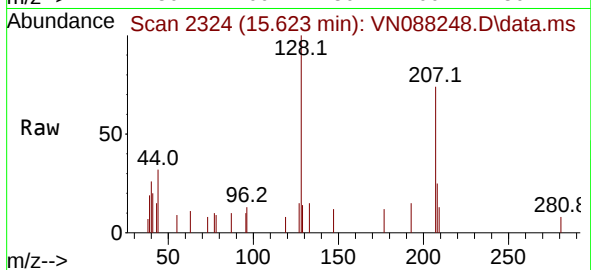
Tgt Ion:128 Resp: 4731

Ion Ratio Lower Upper

128 100

127 5.8 10.6 15.8#

129 0.0 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 0.488 ug/l

RT: 15.817 min Scan# 2357

Delta R.T. 0.006 min

Lab File: VN088248.D

Acq: 11 Nov 2025 12:01

Tgt Ion:180 Resp: 1952

Ion Ratio Lower Upper

180 100

182 70.6 46.8 140.3

145 39.3 17.3 52.0

