

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088112.D
 Acq On : 27 Oct 2025 14:34
 Operator : JC\MD
 Sample : Q3439-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Quant Time: Oct 28 01:27:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

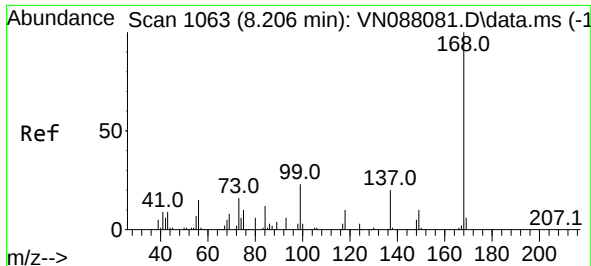
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	225260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	497798	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	483216	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	230785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	208073	53.418	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.840%	
35) Dibromofluoromethane	8.147	113	158374	47.357	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 94.720%	
50) Toluene-d8	10.547	98	583863	45.310	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 90.620%	
62) 4-Bromofluorobenzene	12.829	95	217995	47.902	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 95.800%	
Target Compounds						
					Qvalue	
5) Bromomethane	3.001	94	617	0.317	ug/l #	77
11) Tert butyl alcohol	5.536	59	1232	1.836	ug/l #	71
13) Acrolein	4.171	56	474	0.628	ug/l #	57
16) Acetone	4.424	43	32262	16.486	ug/l	97
18) Methyl Acetate	5.012	43	3248	0.811	ug/l #	74
20) Methylene Chloride	5.259	84	14444	5.442	ug/l	91
25) 2-Butanone	7.483	43	3931	1.524	ug/l #	87
29) Tetrahydrofuran	7.824	42	2295	1.366	ug/l #	64
31) Cyclohexane	8.200	56	7249	1.329	ug/l #	4
36) 1,1-Dichloropropene	8.200	75	20702	4.240	ug/l #	50
37) Ethyl Acetate	7.542	43	1270	0.202	ug/l #	72
38) Carbon Tetrachloride	8.206	117	26800	5.314	ug/l #	15
40) Benzene	8.594	78	8212	0.552	ug/l #	83
43) Isopropyl Acetate	8.677	43	30841	3.185	ug/l	94
45) 1,2-Dichloropropane	9.718	63	2054	0.547	ug/l #	43
48) Methyl methacrylate	9.724	41	151717	33.938	ug/l #	46
51) 4-Methyl-2-Pentanone	10.435	43	6494	1.134	ug/l	89
52) Toluene	10.612	92	2865	0.312	ug/l	99
54) cis-1,3-Dichloropropene	10.341	75	52489	8.669	ug/l #	66
57) 1,3-Dichloropropane	11.182	76	4435	0.725	ug/l #	42
59) 2-Hexanone	11.182	43	80243	21.117	ug/l #	48
76) 1,2,3-Trichloropropane	12.829	75	126022	23.884	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	126022	66.625	ug/l #	1
95) Naphthalene	15.623	128	4101	0.268	ug/l #	94

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

Quant Time: Oct 28 01:27:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

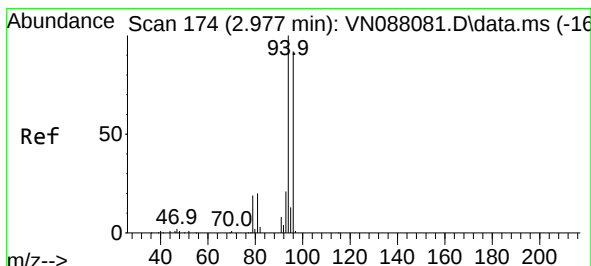
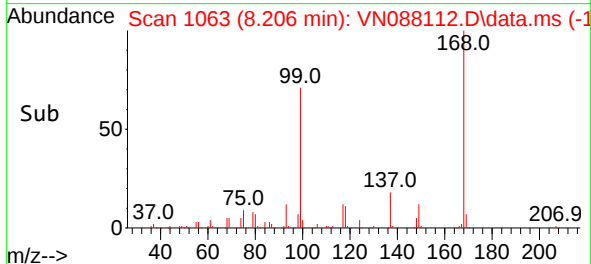
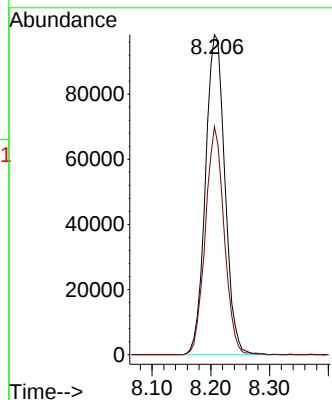
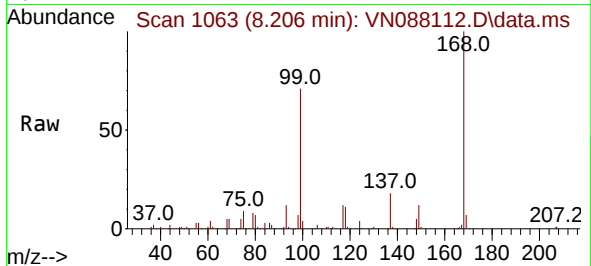




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

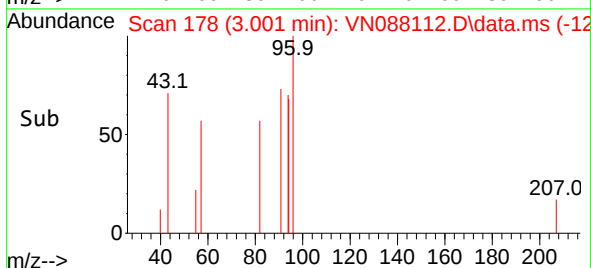
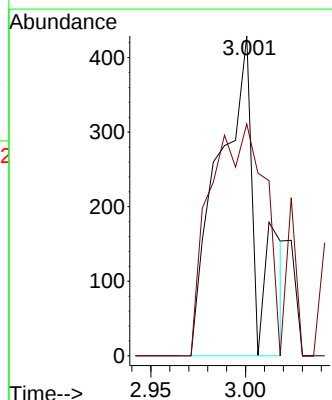
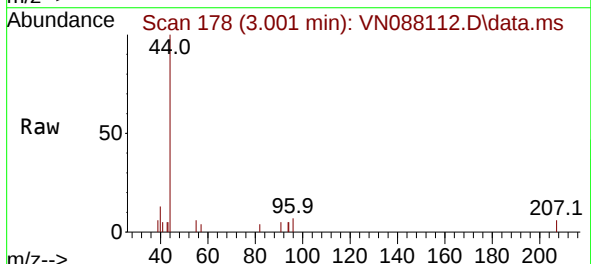
Instrument :
MSVOA_N
ClientSampleId :
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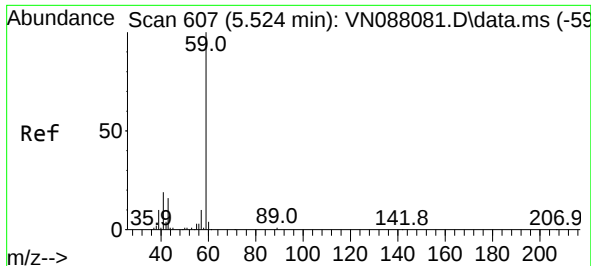
Tgt Ion:168 Resp: 225260
Ion Ratio Lower Upper
168 100
99 71.2 57.2 85.8



#5
Bromomethane
Concen: 0.317 ug/l
RT: 3.001 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 94 Resp: 617
Ion Ratio Lower Upper
94 100
96 72.5 75.4 113.2#

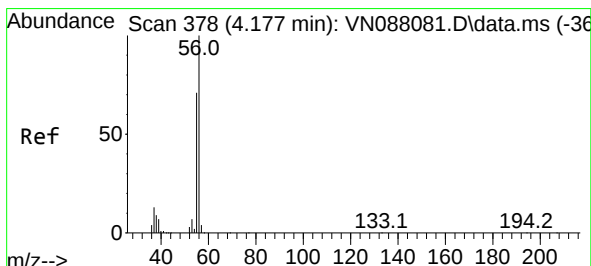
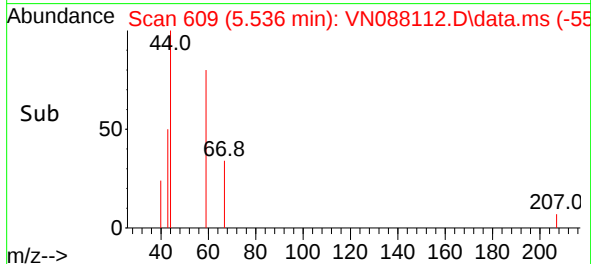
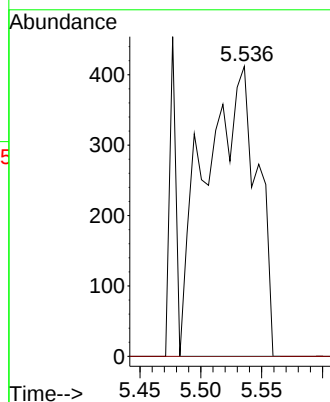
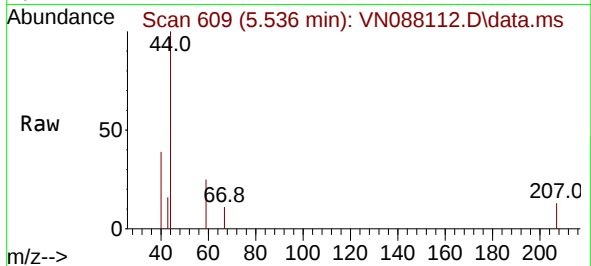




#11
Tert butyl alcohol
Concen: 1.836 ug/l
RT: 5.536 min Scan# 607
Delta R.T. 0.018 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

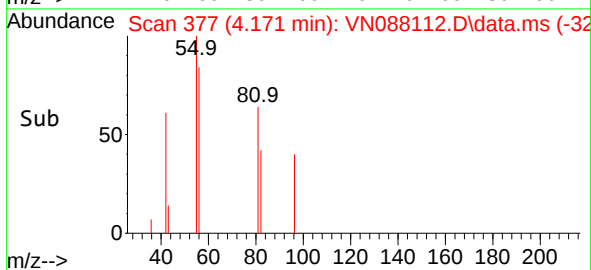
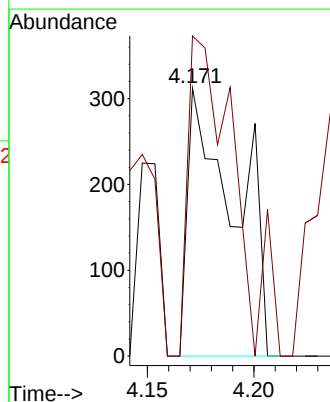
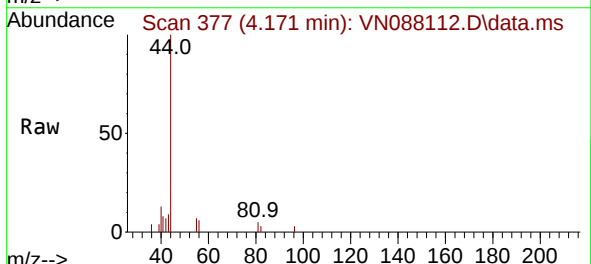
Instrument :
MSVOA_N
ClientSampleId :
TP-9

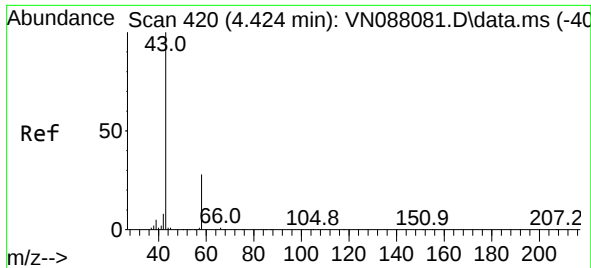
Tgt Ion: 59 Resp: 1232
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.628 ug/l
RT: 4.171 min Scan# 377
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 56 Resp: 474
Ion Ratio Lower Upper
56 100
55 107.4 57.3 85.9#

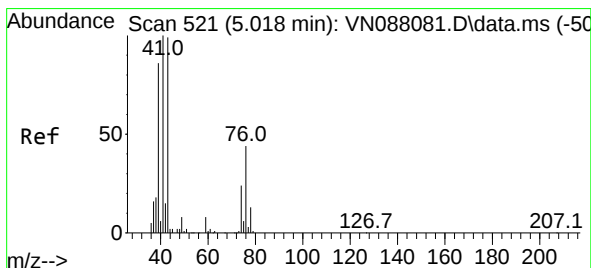
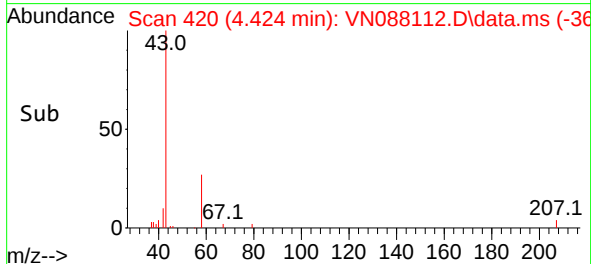
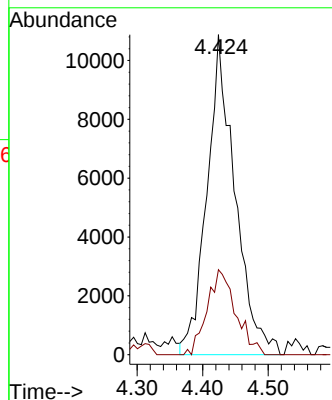
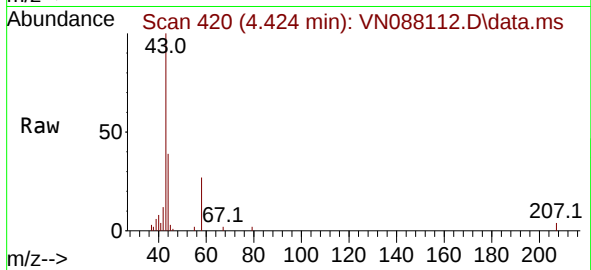




#16
Acetone
Concen: 16.486 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

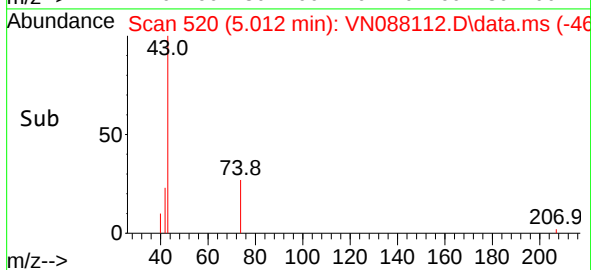
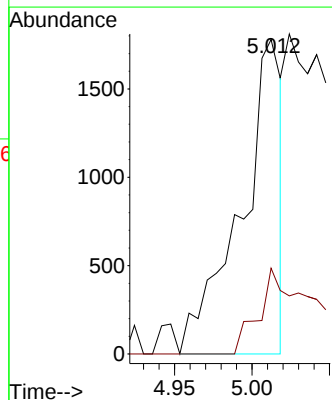
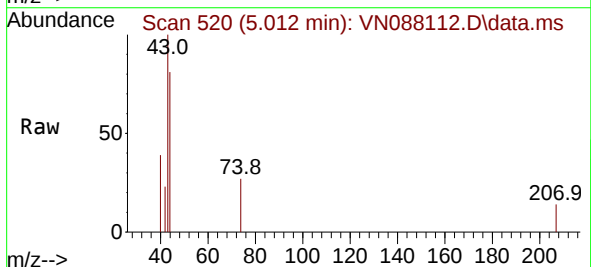
Instrument :
MSVOA_N
ClientSampleId :
TP-9

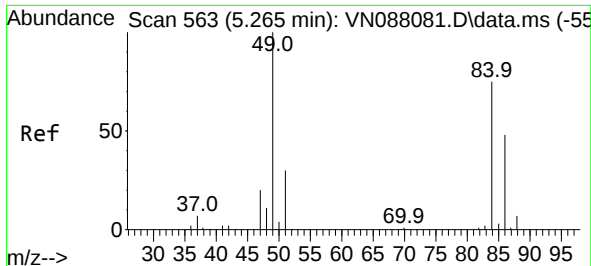
Tgt Ion: 43 Resp: 32262
Ion Ratio Lower Upper
43 100
58 26.6 22.6 33.8



#18
Methyl Acetate
Concen: 0.811 ug/l
RT: 5.012 min Scan# 520
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 43 Resp: 3248
Ion Ratio Lower Upper
43 100
74 34.5 17.6 26.4#

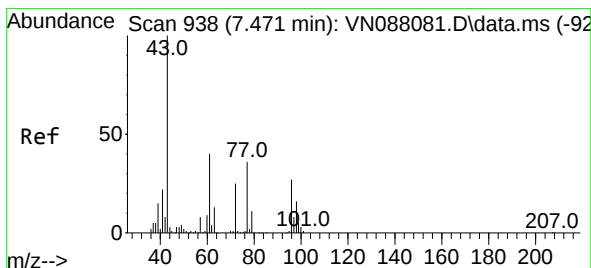
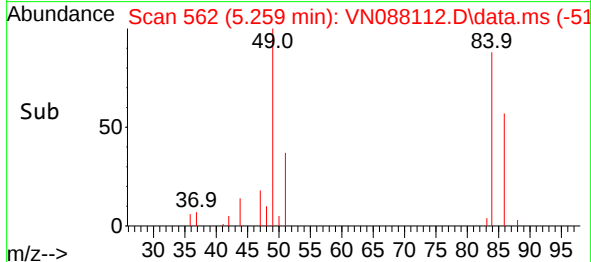
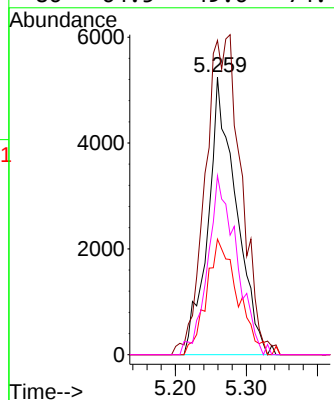
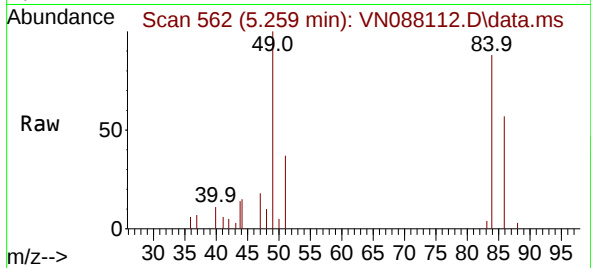




#20
Methylene Chloride
Concen: 5.442 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

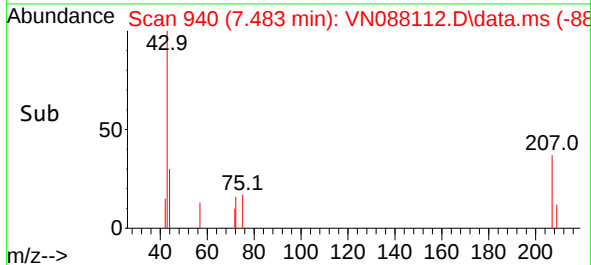
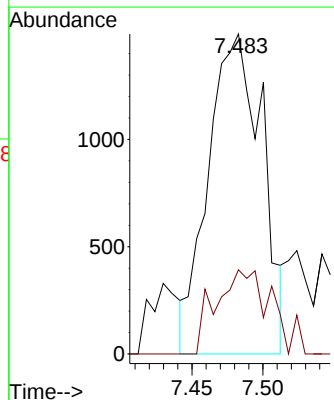
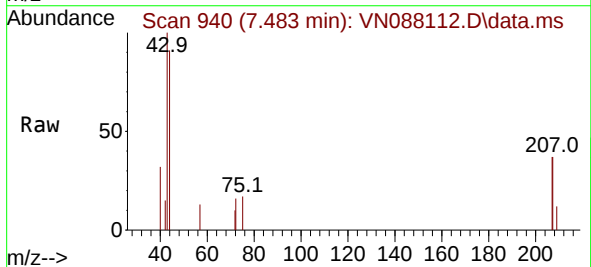
Instrument :
MSVOA_N
ClientSampleId :
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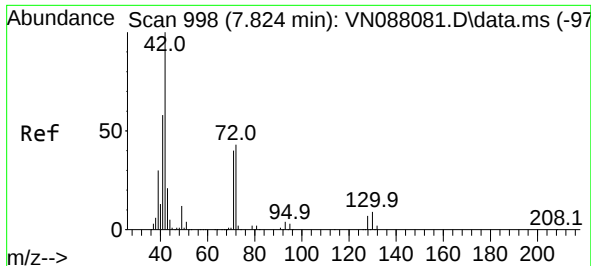
Tgt Ion: 84	Resp: 14444		
Ion	Ratio	Lower	Upper
84	100		
49	113.3	103.4	155.2
51	41.6	33.8	50.8
86	64.5	49.6	74.4



#25
2-Butanone
Concen: 1.524 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 43	Resp: 3931		
Ion Ratio	Lower	Upper	
43 100			
72 31.5	19.9	29.9#	





#29

Tetrahydrofuran

Concen: 1.366 ug/l

RT: 7.824 min Scan# 998

Delta R.T. 0.000 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

Instrument :

MSVOA_N

ClientSampleId :

TP-9

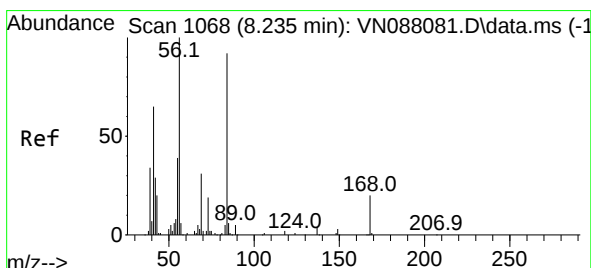
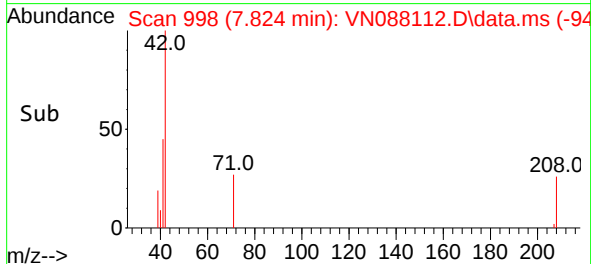
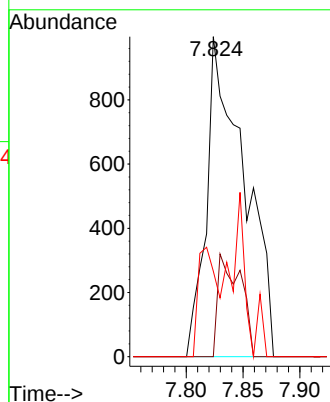
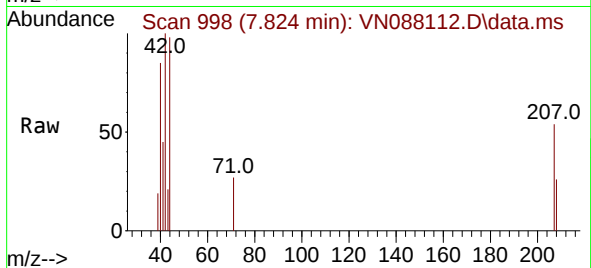
Tgt Ion: 42 Resp: 2295

Ion Ratio Lower Upper

42 100

72 19.3 33.7 50.5#

71 17.1 31.9 47.9#



#31

Cyclohexane

Concen: 1.329 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.035 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

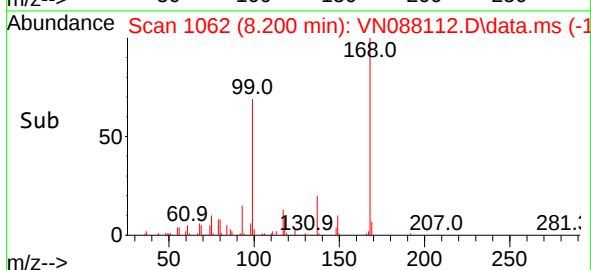
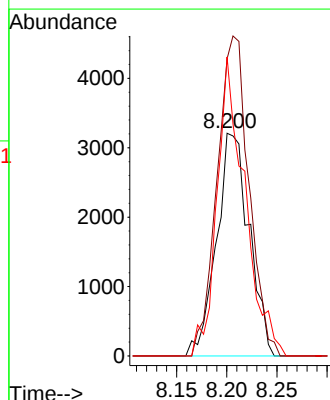
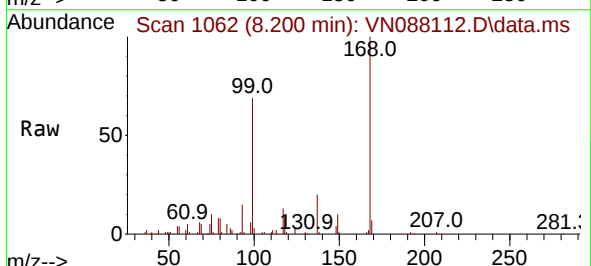
Tgt Ion: 56 Resp: 7249

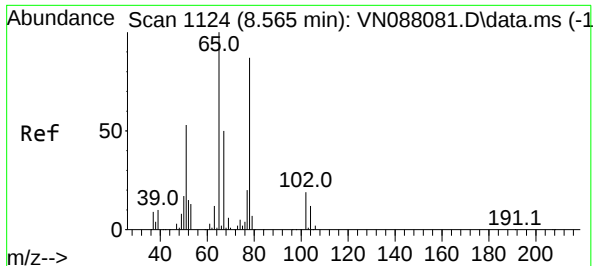
Ion Ratio Lower Upper

56 100

69 133.4 23.7 35.5#

84 134.3 64.7 97.1#

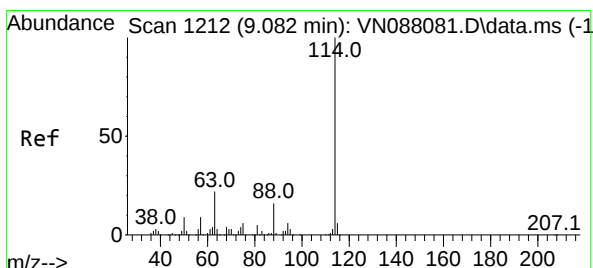
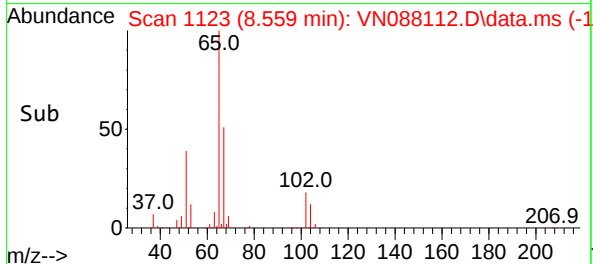
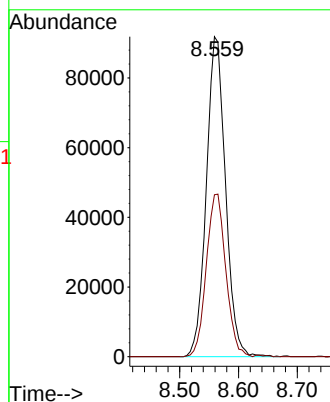
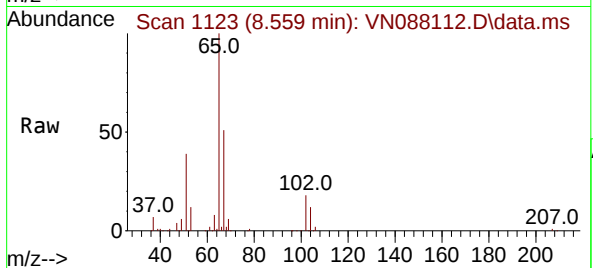




#33
1,2-Dichloroethane-d4
Concen: 53.418 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

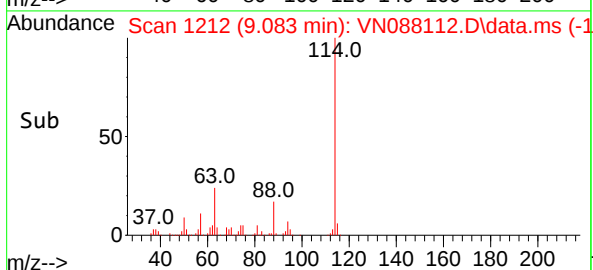
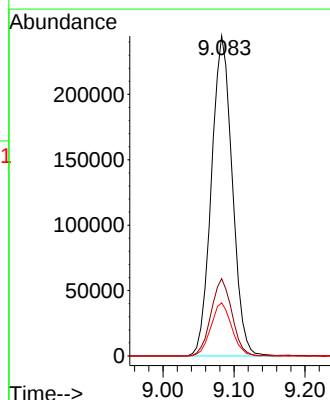
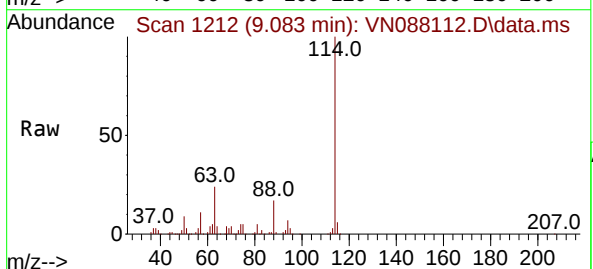
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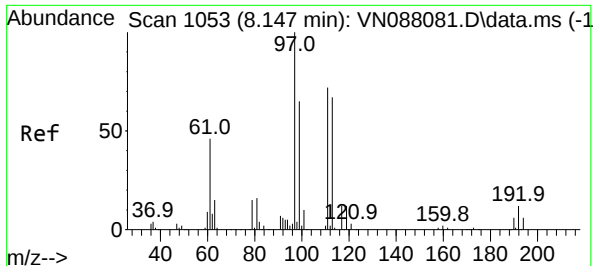
Tgt Ion: 65 Resp: 208073
Ion Ratio Lower Upper
65 100
67 51.7 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion:114 Resp: 497798
Ion Ratio Lower Upper
114 100
63 24.2 0.0 45.2
88 16.6 0.0 33.4

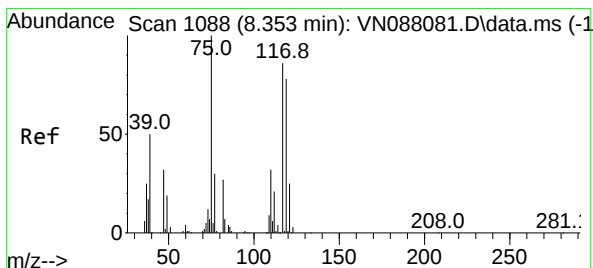
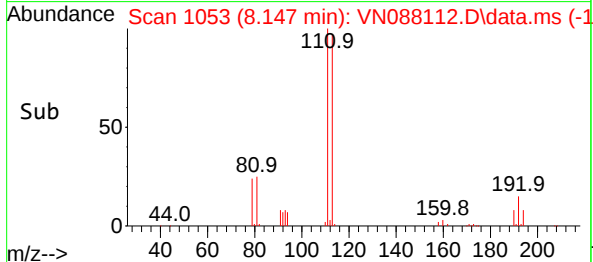
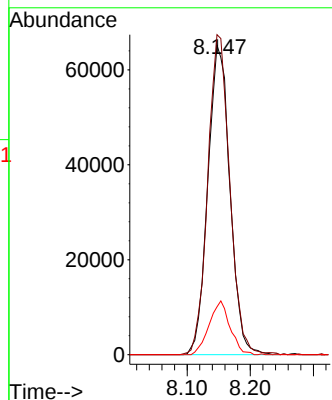
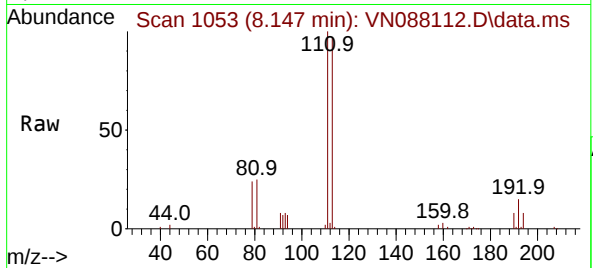




#35
Dibromofluoromethane
Concen: 47.357 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

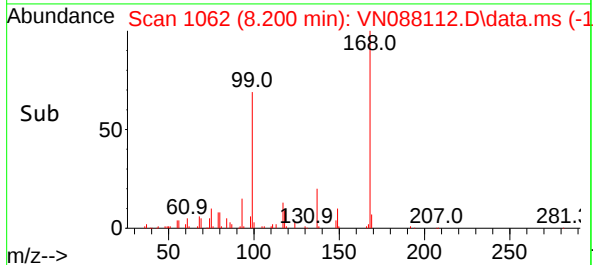
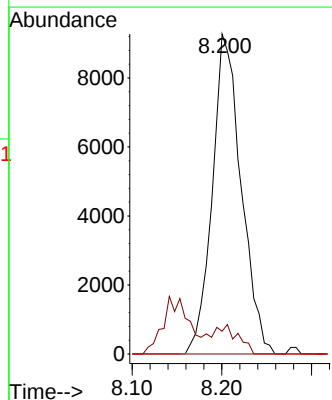
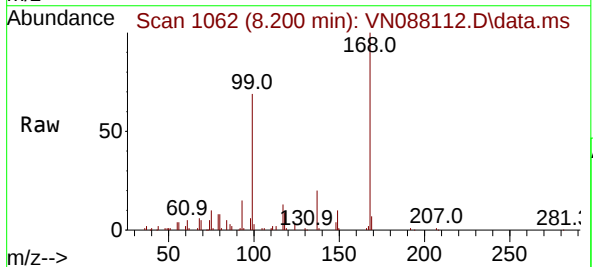
Instrument :
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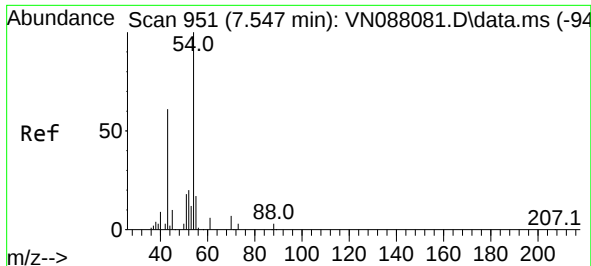
Tgt Ion:113 Resp: 158374
Ion Ratio Lower Upper
113 100
111 102.9 82.8 124.2
192 16.4 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.240 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 75 Resp: 20702
Ion Ratio Lower Upper
75 100
110 6.8 15.9 47.6#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.202 ug/l

RT: 7.542 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

Instrument :

MSVOA_N

ClientSampleId :

TP-9

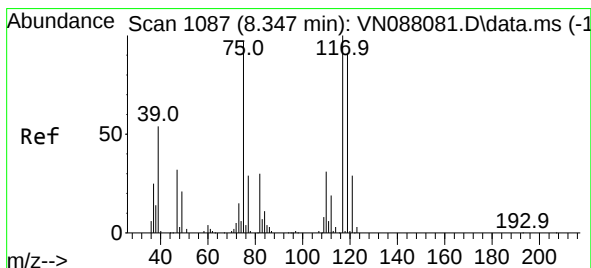
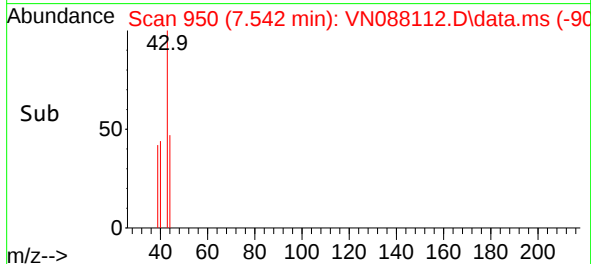
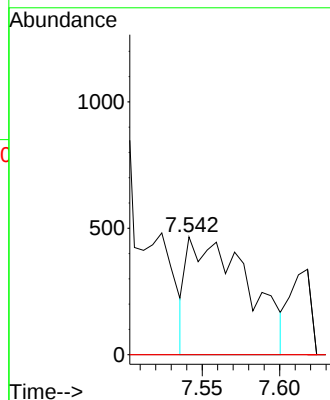
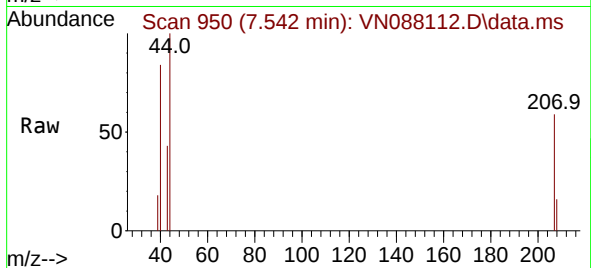
Tgt Ion: 43 Resp: 1270

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 5.314 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

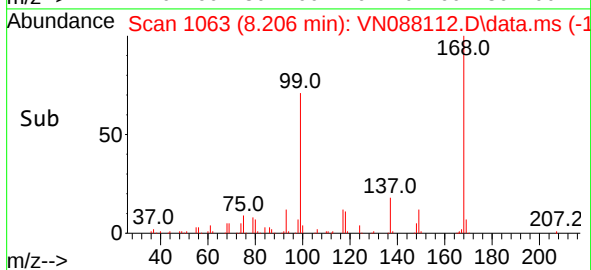
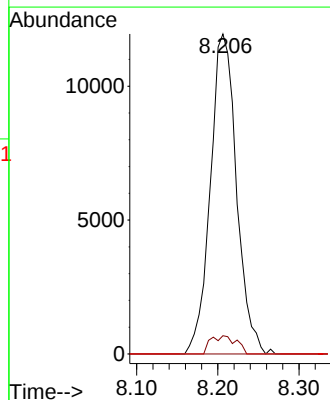
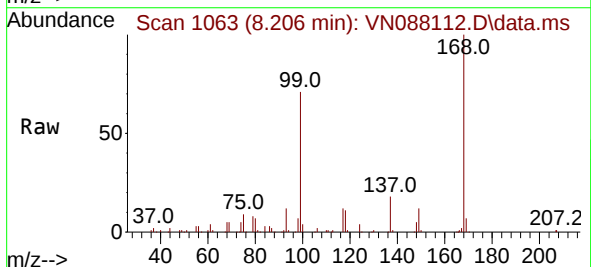
Tgt Ion: 117 Resp: 26800

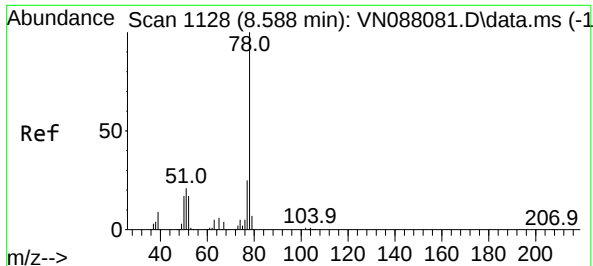
Ion Ratio Lower Upper

117 100

119 5.7 79.0 118.6#

121 0.0 25.0 37.6#

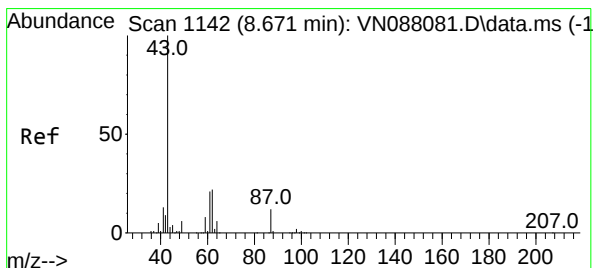
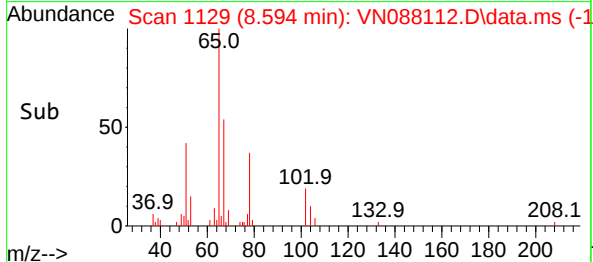
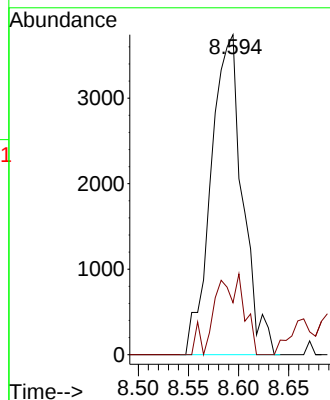
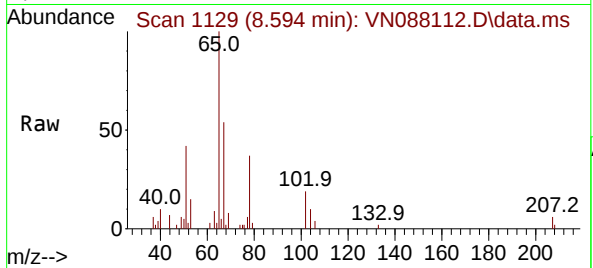




#40
Benzene
Concen: 0.552 ug/l
RT: 8.594 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

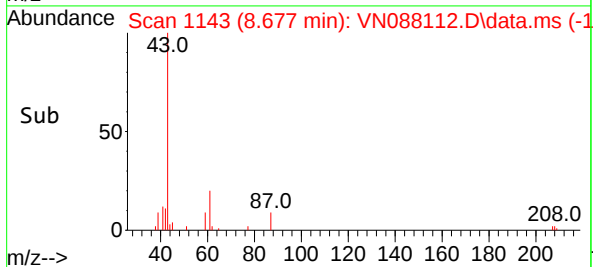
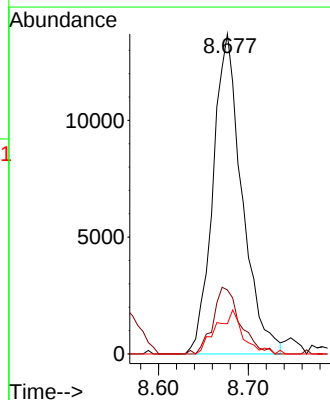
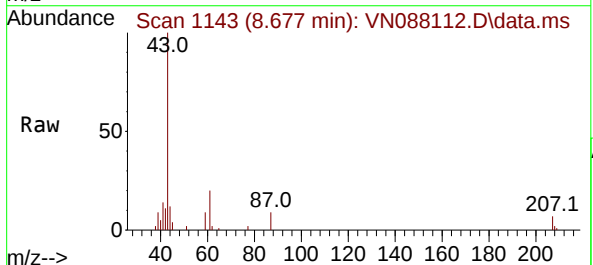
Instrument :
MSVOA_N
ClientSampleId :
TP-9

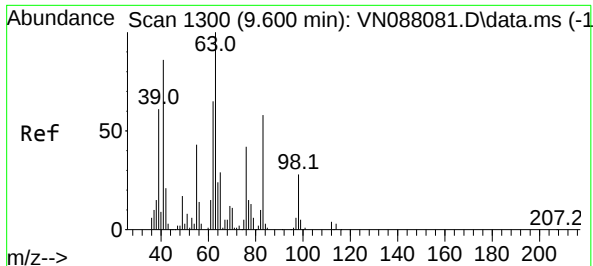
Tgt Ion: 78 Resp: 8212
Ion Ratio Lower Upper
78 100
77 16.2 19.7 29.5#



#43
Isopropyl Acetate
Concen: 3.185 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 43 Resp: 30841
Ion Ratio Lower Upper
43 100
61 19.4 18.8 28.2
87 12.7 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.547 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. 0.118 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

Instrument :

MSVOA_N

ClientSampleId :

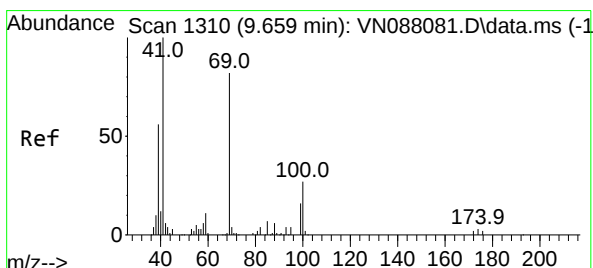
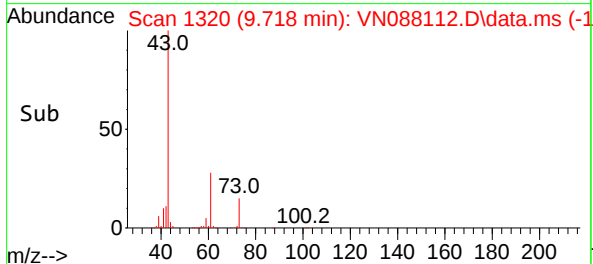
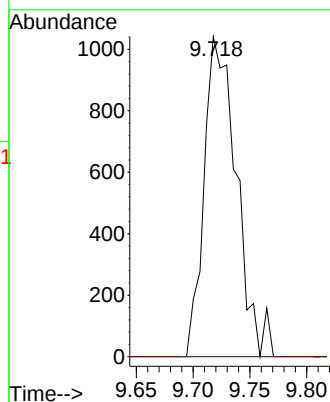
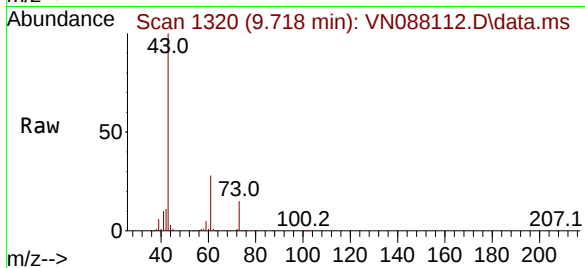
TP-9

Tgt Ion: 63 Resp: 2054

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 33.938 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

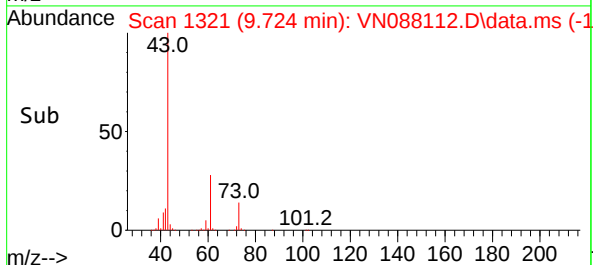
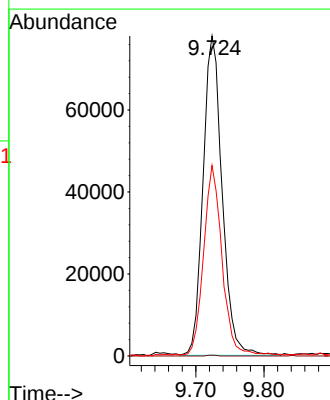
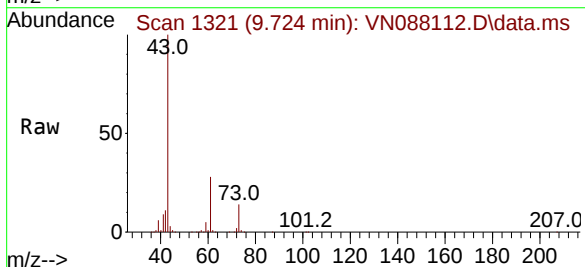
Tgt Ion: 41 Resp: 151717

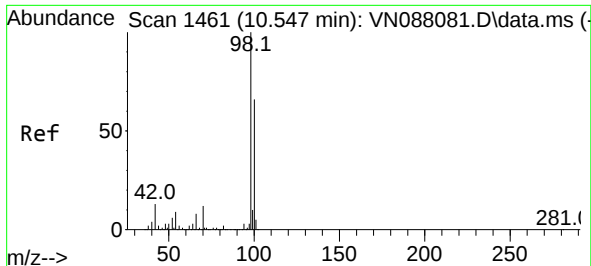
Ion Ratio Lower Upper

41 100

69 0.1 62.7 94.1#

39 56.8 52.9 79.3

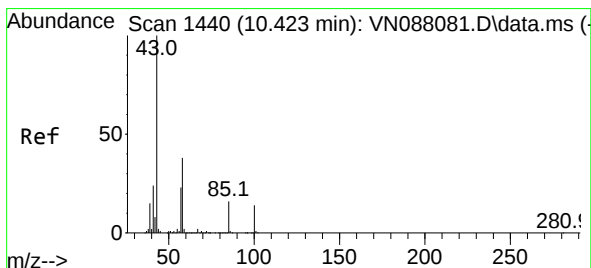
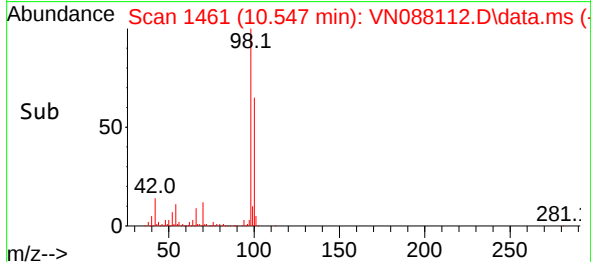
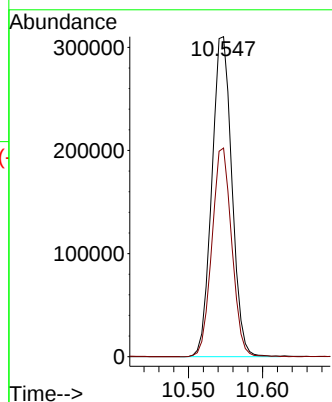
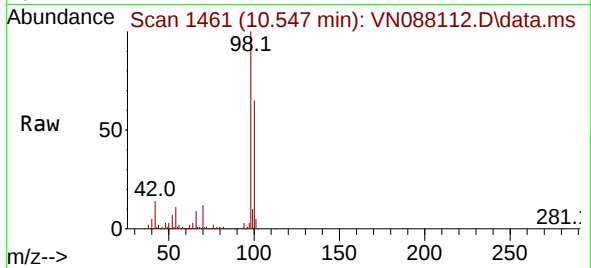




#50
Toluene-d8
Concen: 45.310 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

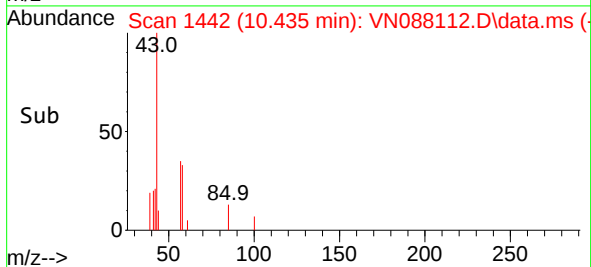
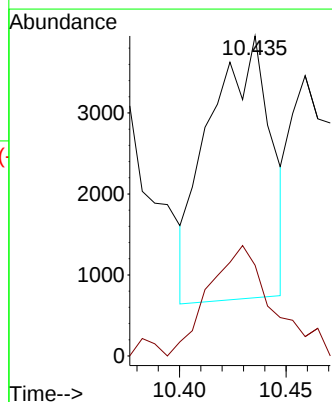
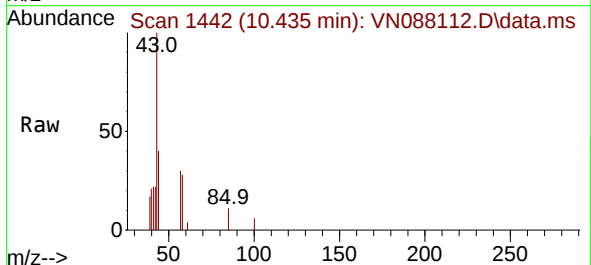
Instrument :
MSVOA_N
ClientSampleId :
TP-9

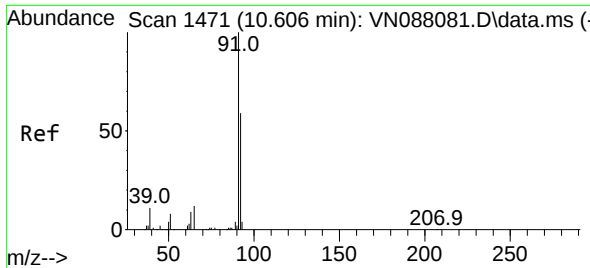
Tgt Ion: 98 Resp: 583863
Ion Ratio Lower Upper
98 100
100 64.5 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.134 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 43 Resp: 6494
Ion Ratio Lower Upper
43 100
58 43.7 29.6 44.4

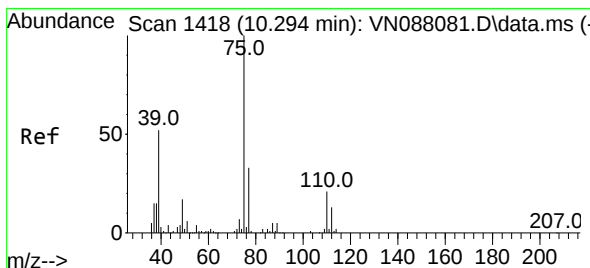
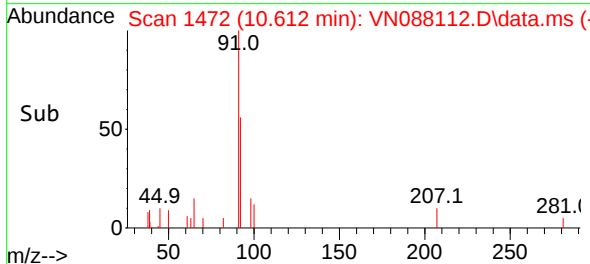
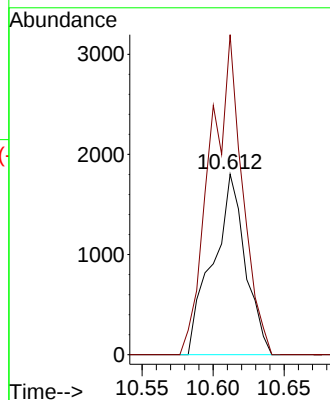
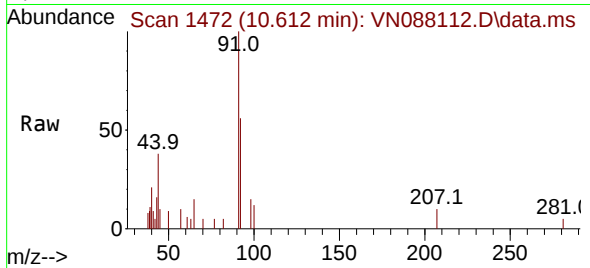




#52
Toluene
Concen: 0.312 ug/l
RT: 10.612 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

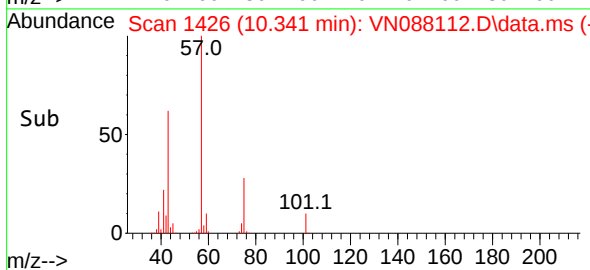
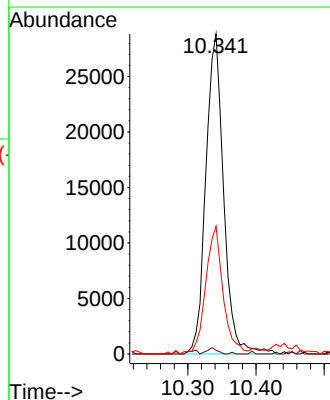
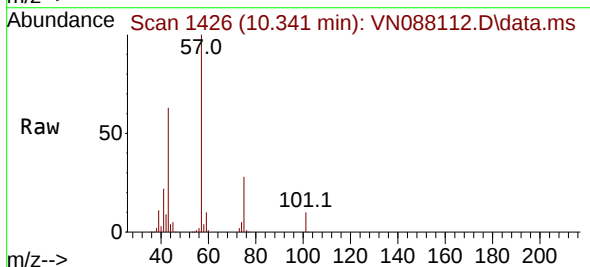
Instrument :
MSVOA_N
ClientSampleId :
TP-9

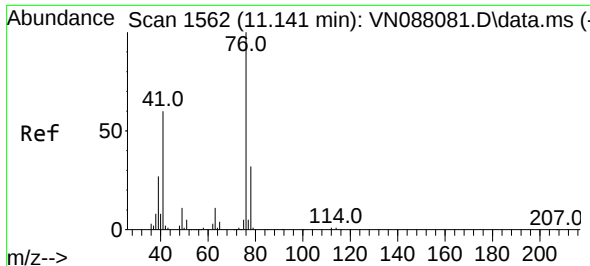
Tgt Ion: 92 Resp: 2865
Ion Ratio Lower Upper
92 100
91 176.9 140.4 210.6



#54
cis-1,3-Dichloropropene
Concen: 8.669 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 75 Resp: 52489
Ion Ratio Lower Upper
75 100
77 1.2 24.6 37.0#
39 39.9 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.725 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

Instrument :

MSVOA_N

ClientSampleId :

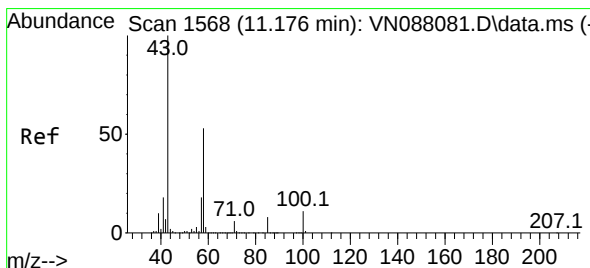
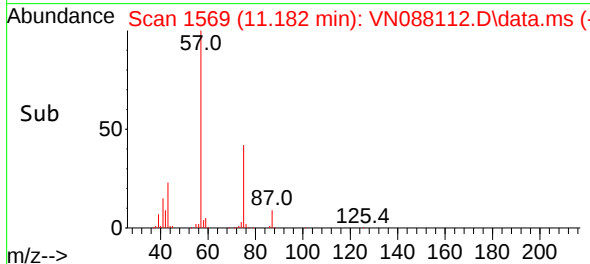
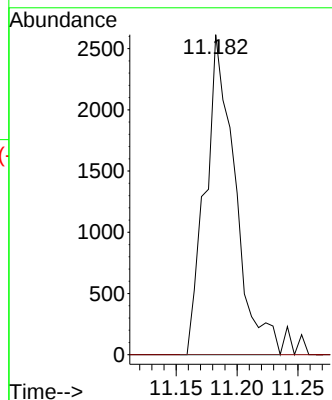
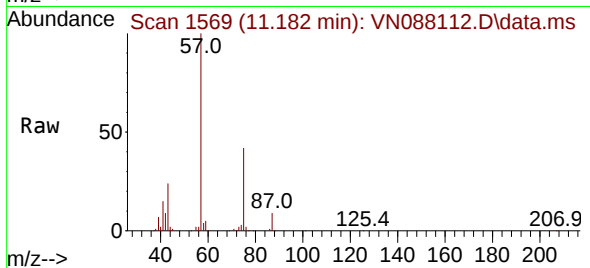
TP-9

Tgt Ion: 76 Resp: 4435

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 21.117 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088112.D

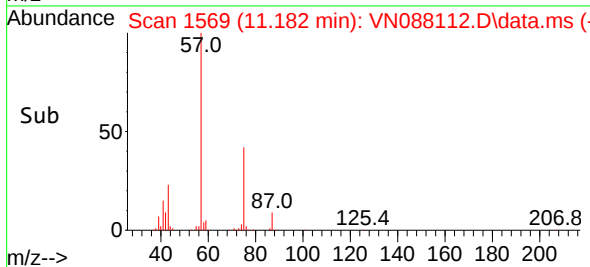
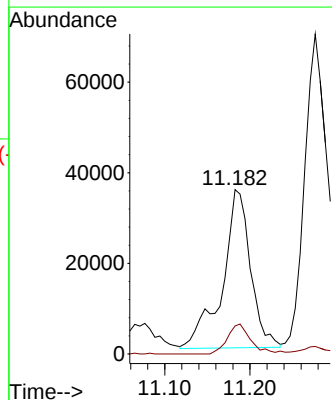
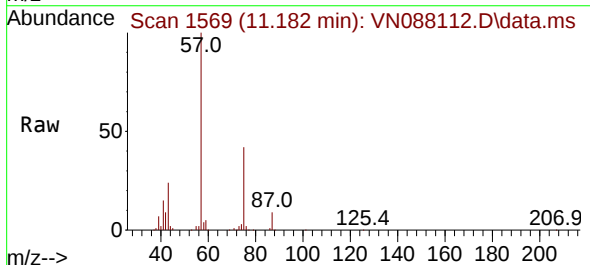
Acq: 27 Oct 2025 14:34

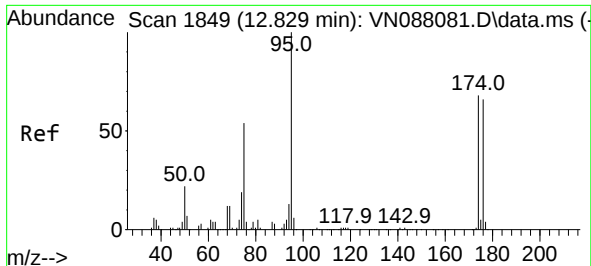
Tgt Ion: 43 Resp: 80243

Ion Ratio Lower Upper

43 100

58 15.5 25.9 77.8#

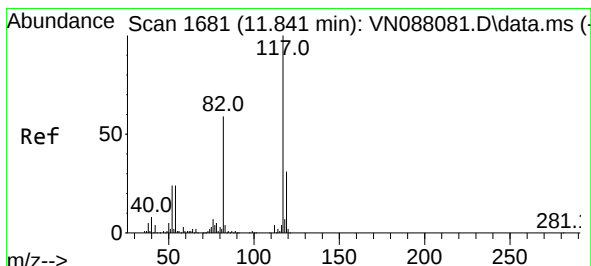
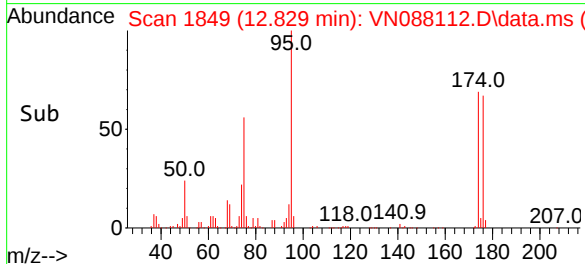
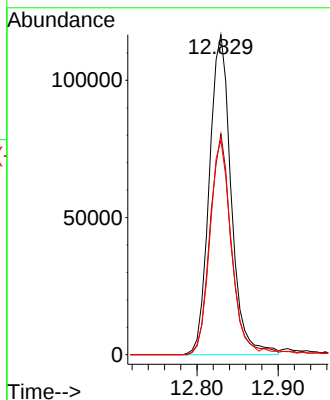
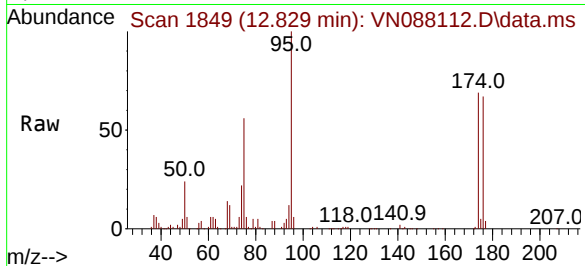




#62
4-Bromofluorobenzene
Concen: 47.902 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

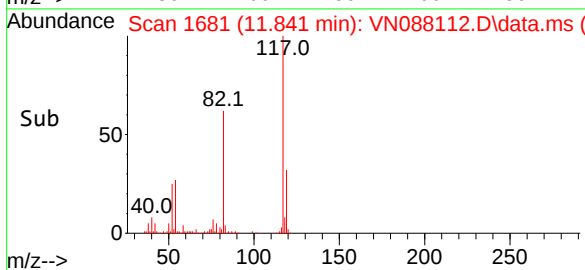
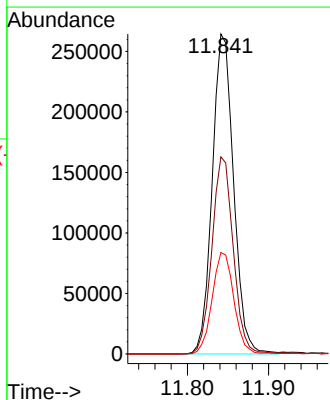
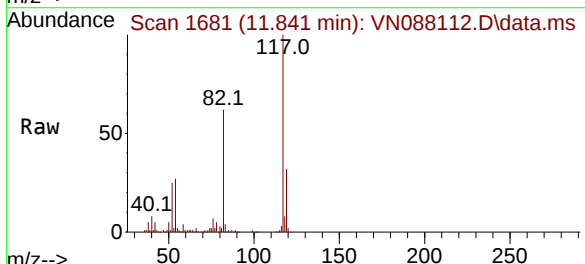
Instrument :
MSVOA_N
ClientSampleId :
TP-9

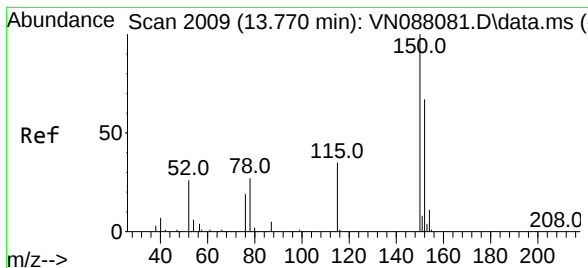
Tgt Ion: 95 Resp: 217995
Ion Ratio Lower Upper
95 100
174 67.8 0.0 138.4
176 66.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 117 Resp: 483216
Ion Ratio Lower Upper
117 100
82 61.6 47.4 71.2
119 31.7 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088112.D

Acq: 27 Oct 2025 14:34

Instrument :

MSVOA_N

ClientSampleId :

TP-9

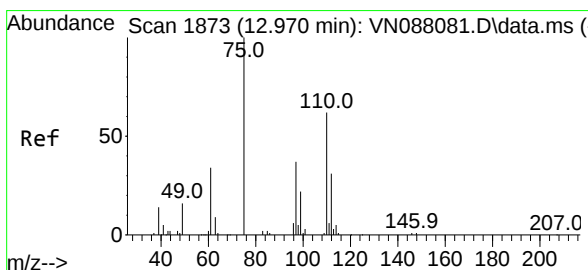
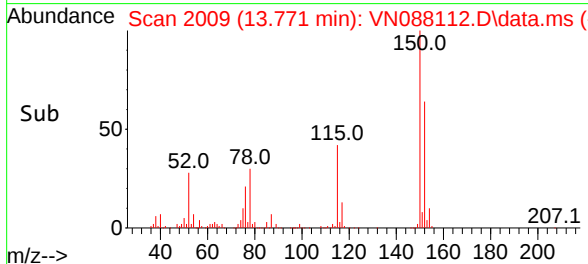
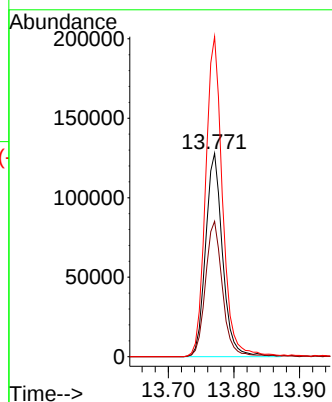
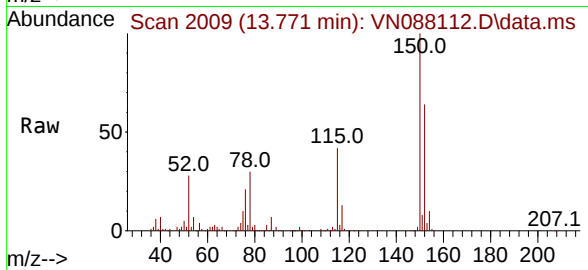
Tgt Ion:152 Resp: 230785

Ion Ratio Lower Upper

152 100

115 67.1 32.3 96.8

150 156.5 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 23.884 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088112.D

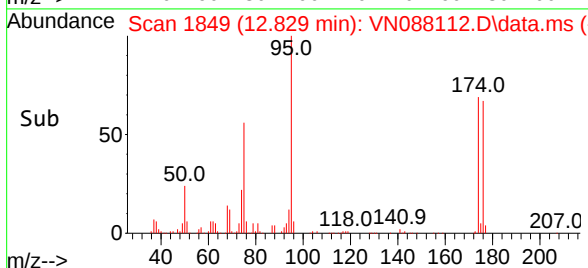
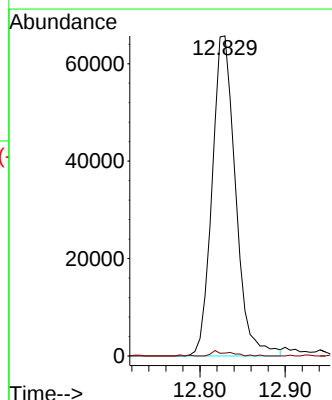
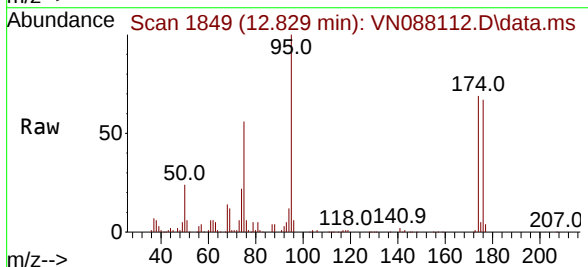
Acq: 27 Oct 2025 14:34

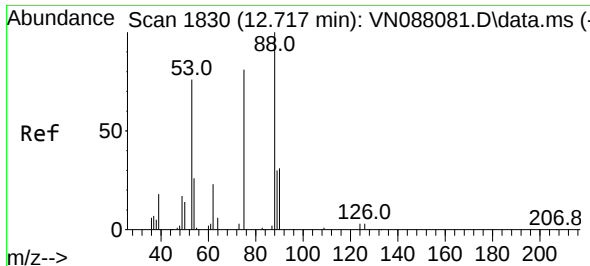
Tgt Ion: 75 Resp: 126022

Ion Ratio Lower Upper

75 100

77 1.3 89.1 267.4#

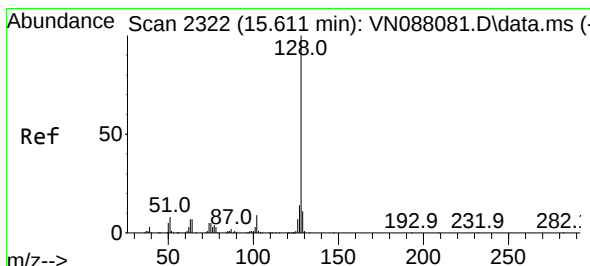
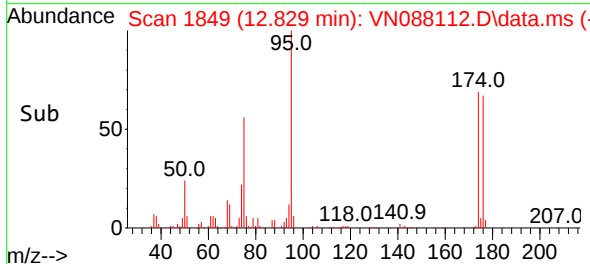
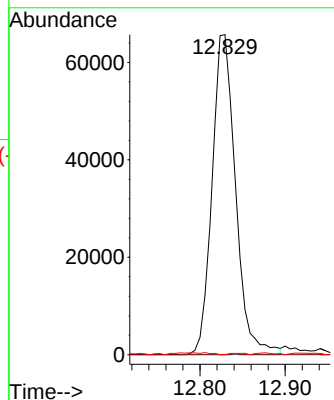
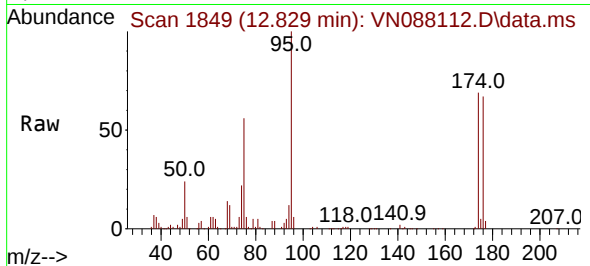




#81
trans-1,4-Dichloro-2-butene
Concen: 66.625 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Instrument :
MSVOA_N
ClientSampleId :
TP-9

Tgt Ion: 75 Resp: 126022
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.3 35.6 53.4#



#95
Naphthalene
Concen: 0.268 ug/l
RT: 15.623 min Scan# 2324
Delta R.T. 0.012 min
Lab File: VN088112.D
Acq: 27 Oct 2025 14:34

Tgt Ion: 128 Resp: 4101
Ion Ratio Lower Upper
128 100
127 9.3 10.6 15.8#
129 10.3 8.6 12.8

