

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122822\
 Data File : VN075997.D
 Acq On : 28 Dec 2022 14:09
 Operator : JC\MD
 Sample : N6212-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Dec 29 04:50:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

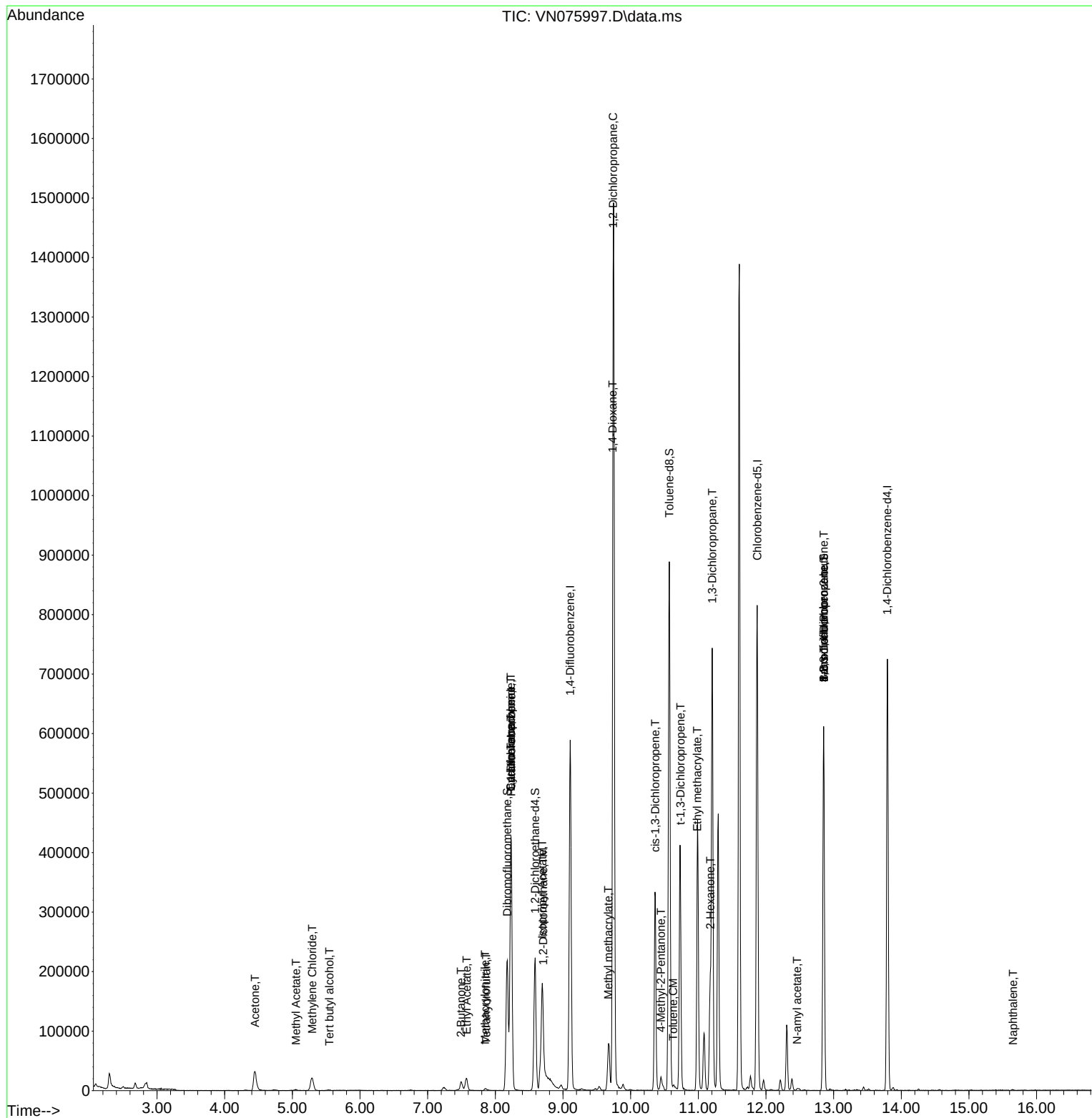
Internal Standards						
1) Pentafluorobenzene	8.236	168	333483	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	539808	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	492241	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	205631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	174943	48.220	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.440%		
35) Dibromofluoromethane	8.177	113	158586	47.439	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.880%		
50) Toluene-d8	10.571	98	630221	50.422	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.840%		
62) 4-Bromofluorobenzene	12.853	95	200776	48.499	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.000%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.548	59	1407	2.741	ug/l #	72
16) Acetone	4.448	43	62810	50.222	ug/l	96
18) Methyl Acetate	5.053	43	2714	0.734	ug/l #	72
20) Methylene Chloride	5.295	84	18238	4.873	ug/l	95
25) 2-Butanone	7.495	43	23487	13.413	ug/l	94
29) Tetrahydrofuran	7.865	42	2213	2.017	ug/l #	73
31) Cyclohexane	8.230	56	6084	1.171	ug/l #	6
36) 1,1-Dichloropropene	8.230	75	23694	5.336	ug/l #	50
37) Ethyl Acetate	7.577	43	31582	8.854	ug/l	98
38) Carbon Tetrachloride	8.230	117	33017	6.643	ug/l #	17
41) Methacrylonitrile	7.847	41	1236	0.667	ug/l #	34
42) 1,2-Dichloroethane	8.706	62	1256	0.276	ug/l #	72
43) Isopropyl Acetate	8.694	43	263931	44.855	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	1888	0.566	ug/l #	43
48) Methyl methacrylate	9.671	41	4667	1.761	ug/l #	36
49) 1,4-Dioxane	9.736	88	213	3.269	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	19499	5.480	ug/l #	75
52) Toluene	10.630	92	2757	0.309	ug/l	99
53) t-1,3-Dichloropropene	10.735	75	1148	0.242	ug/l #	49
54) cis-1,3-Dichloropropene	10.365	75	65315	12.531	ug/l #	63
56) Ethyl methacrylate	10.983	69	1478	0.318	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7788	1.356	ug/l #	42
59) 2-Hexanone	11.177	43	129709	49.983	ug/l #	20
71) Bromoform	12.853	173	1626	0.597	ug/l #	1
74) N-amyl acetate	12.459	43	2323	0.533	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	105391	25.426	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	105391	91.521	ug/l #	12
95) Naphthalene	15.653	128	1858	2.336	ug/l #	83

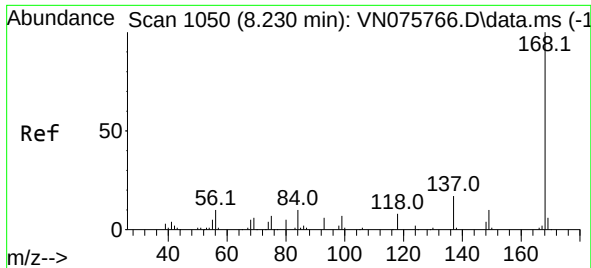
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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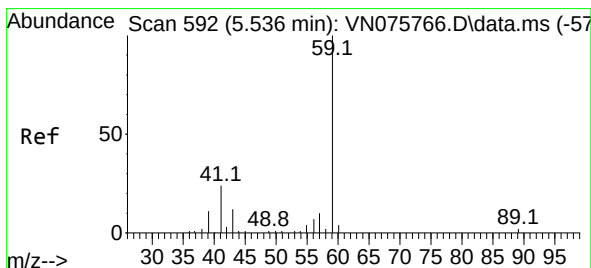
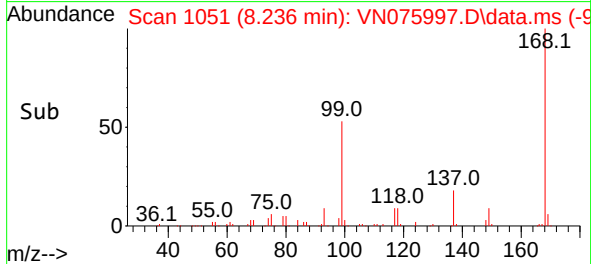
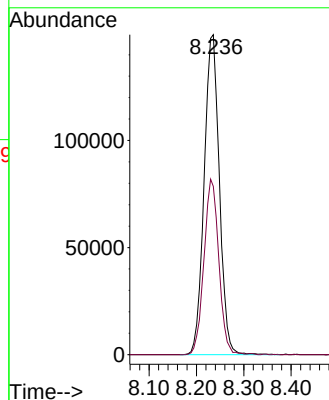
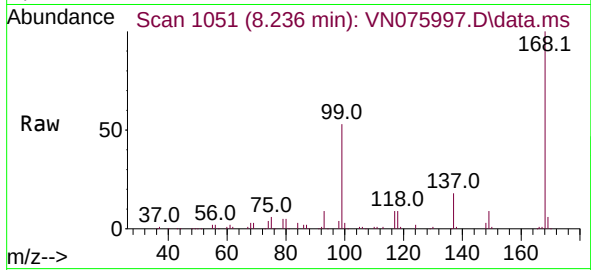




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. 0.006 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

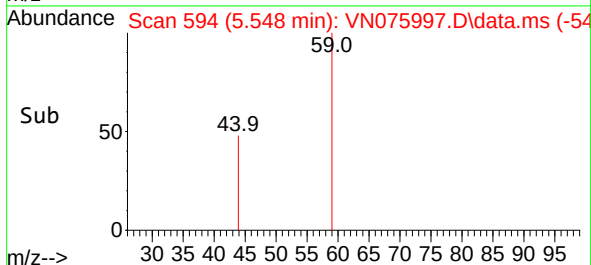
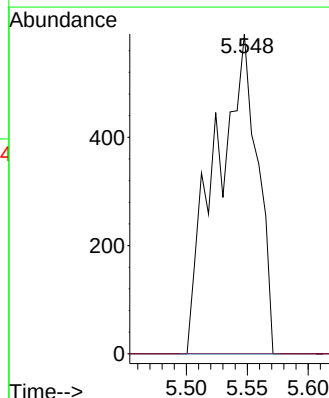
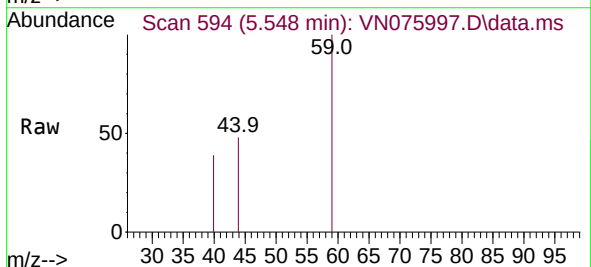
Instrument :
MSVOA_N
ClientSampleId :
TP-1

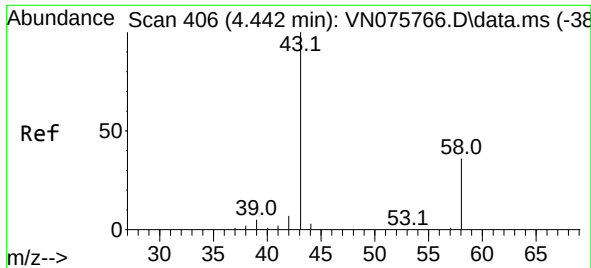
Tgt Ion:168 Resp: 333483
Ion Ratio Lower Upper
168 100
99 52.6 44.2 66.4



#11
Tert butyl alcohol
Concen: 2.741 ug/l
RT: 5.548 min Scan# 594
Delta R.T. 0.012 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 59 Resp: 1407
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 50.222 ug/l

RT: 4.448 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

Instrument :

MSVOA_N

ClientSampleId :

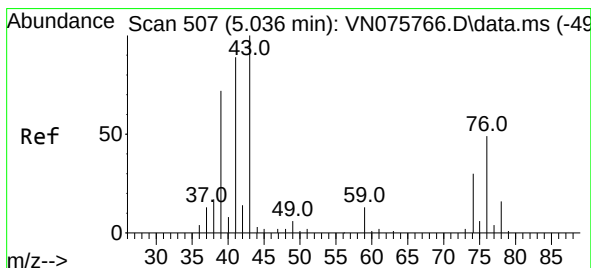
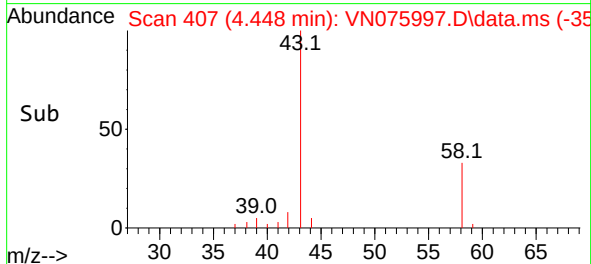
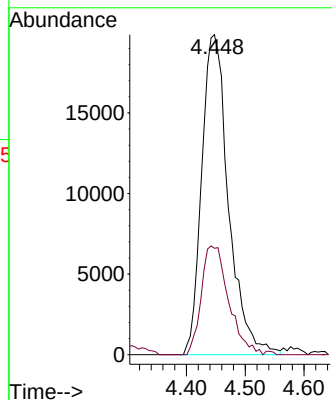
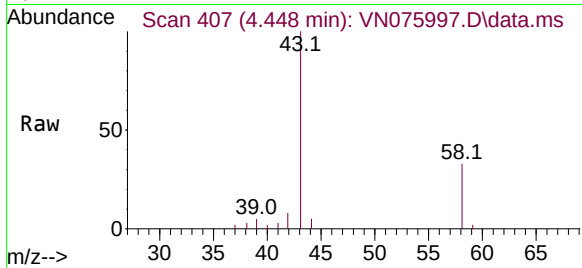
TP-1

Tgt Ion: 43 Resp: 62810

Ion Ratio Lower Upper

43 100

58 33.2 28.6 43.0



#18

Methyl Acetate

Concen: 0.734 ug/l

RT: 5.053 min Scan# 510

Delta R.T. 0.018 min

Lab File: VN075997.D

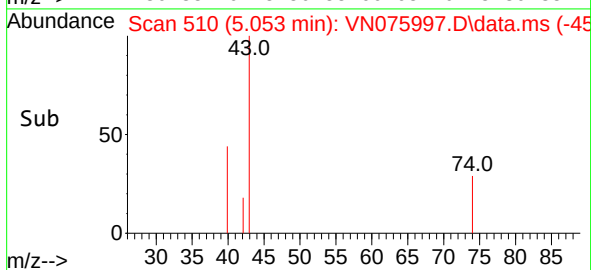
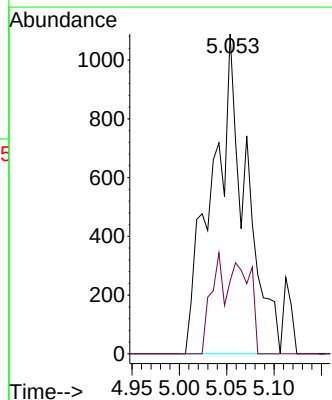
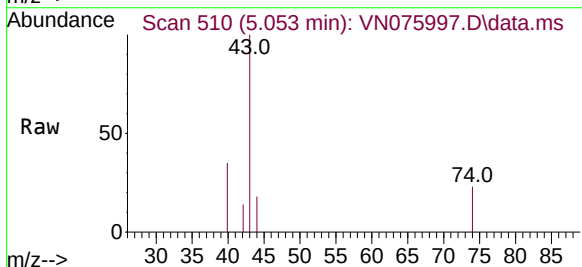
Acq: 28 Dec 2022 14:09

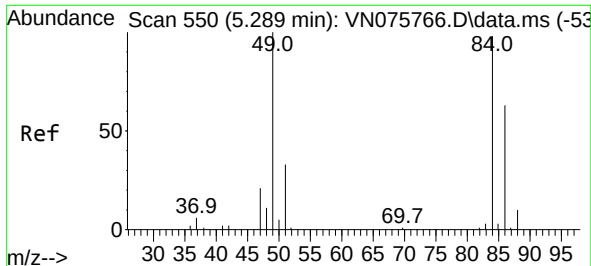
Tgt Ion: 43 Resp: 2714

Ion Ratio Lower Upper

43 100

74 14.7 23.6 35.4#

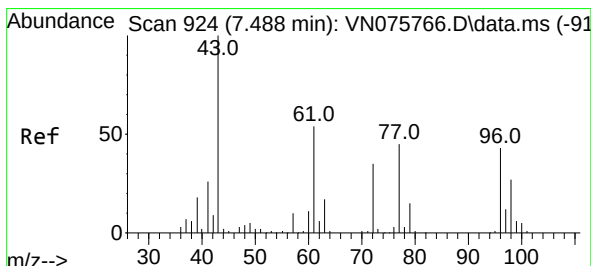
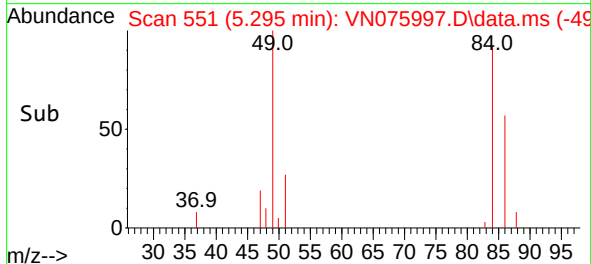
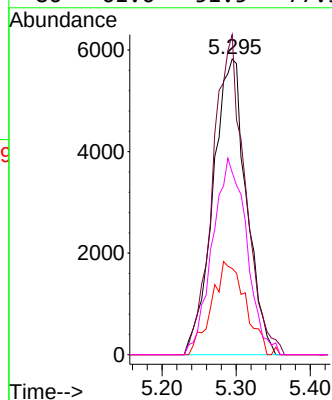
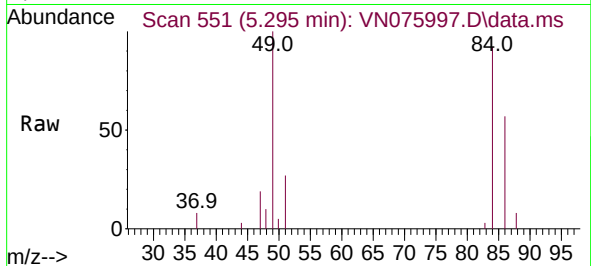




#20
Methylene Chloride
Concen: 4.873 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

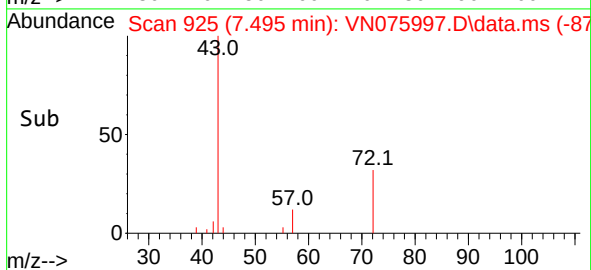
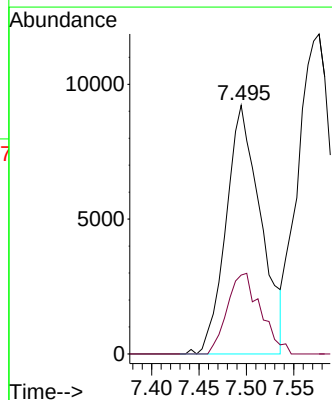
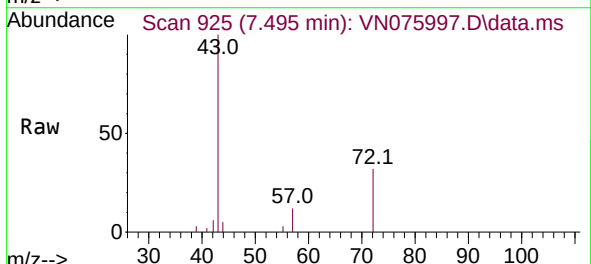
Instrument :
MSVOA_N
ClientSampleId :
TP-1

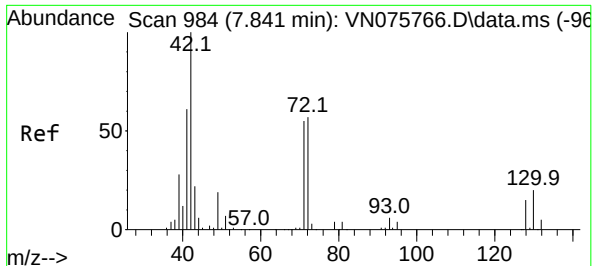
Tgt Ion: 84	Resp: 18238		
Ion	Ratio	Lower	Upper
84	100		
49	108.2	81.8	122.6
51	29.2	26.7	40.1
86	61.6	51.5	77.3



#25
2-Butanone
Concen: 13.413 ug/l
RT: 7.495 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 43	Resp: 23487
Ion Ratio	Lower Upper
43 100	
72 31.7	28.0 42.0





#29

Tetrahydrofuran

Concen: 2.017 ug/l

RT: 7.865 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

Instrument :

MSVOA_N

ClientSampleId :

TP-1

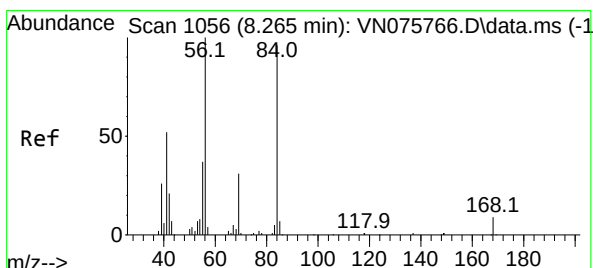
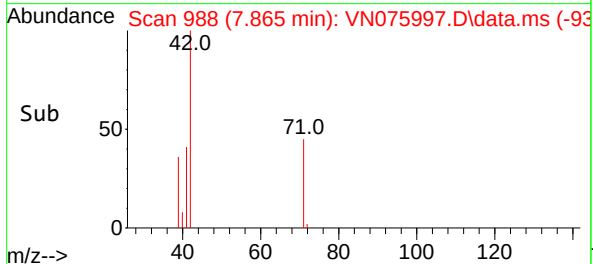
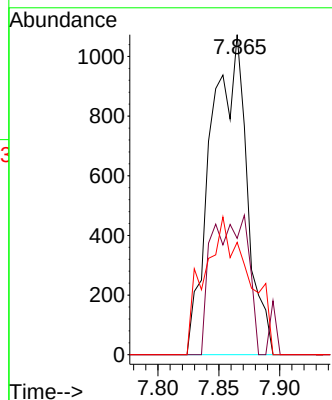
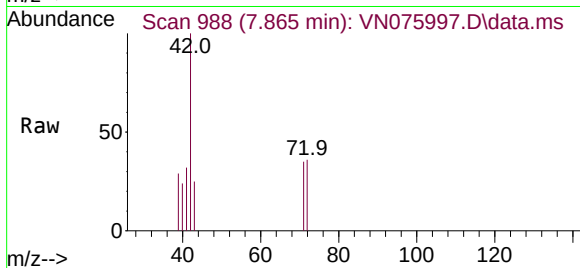
Tgt Ion: 42 Resp: 2213

Ion Ratio Lower Upper

42 100

72 18.8 44.5 66.7#

71 52.6 41.0 61.6



#31

Cyclohexane

Concen: 1.171 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

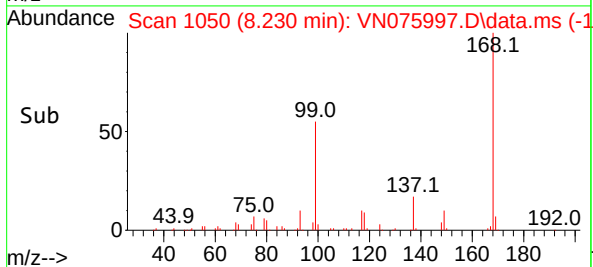
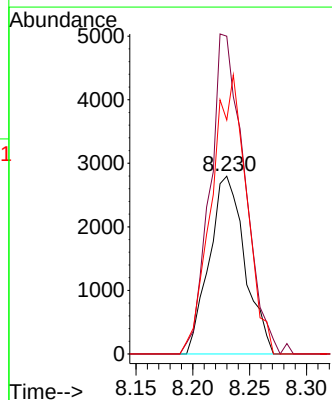
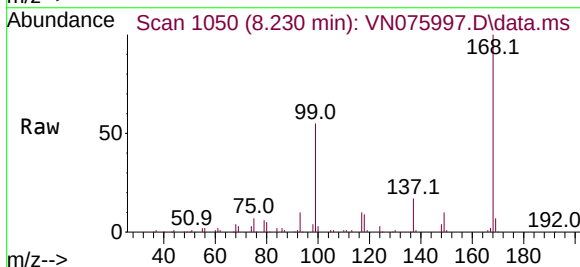
Tgt Ion: 56 Resp: 6084

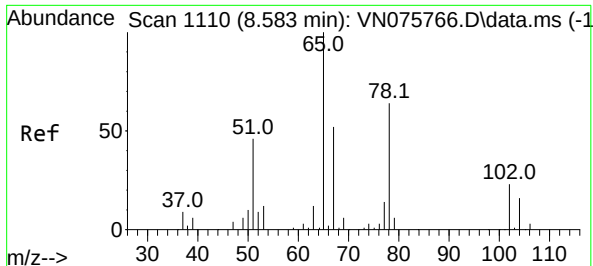
Ion Ratio Lower Upper

56 100

69 178.7 24.7 37.1#

84 131.6 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 48.220 ug/l

RT: 8.589 min Scan# 1110

Delta R.T. 0.006 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

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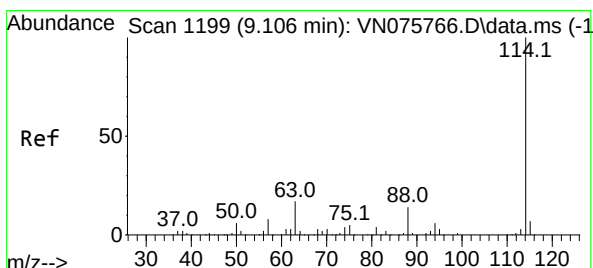
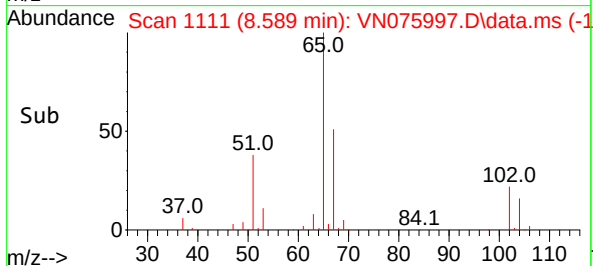
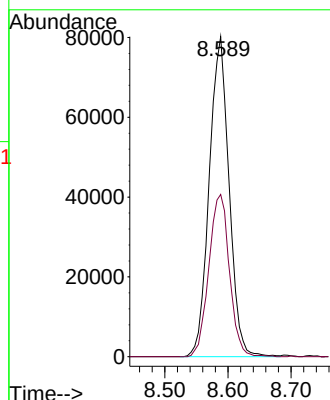
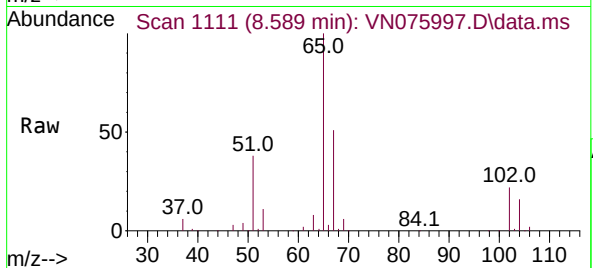
TP-1

Tgt Ion: 65 Resp: 174943

Ion Ratio Lower Upper

65 100

67 52.7 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

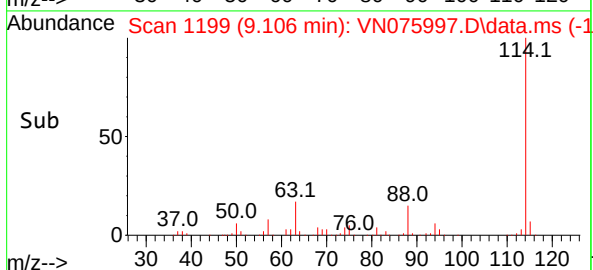
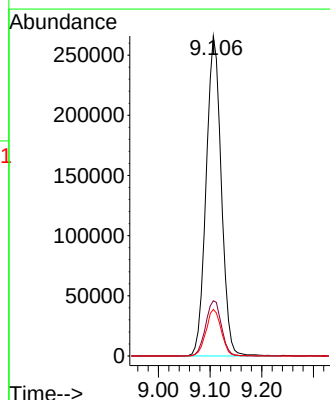
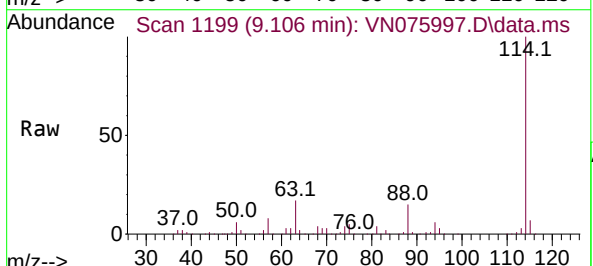
Tgt Ion: 114 Resp: 539808

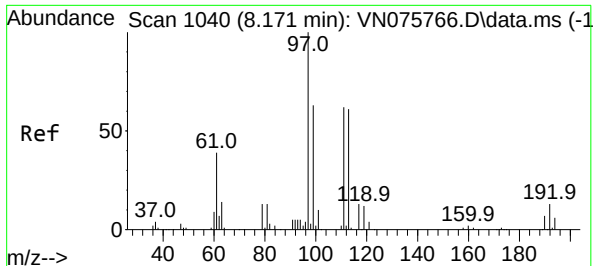
Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.4

88 14.6 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.439 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

Instrument :

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ClientSampleId :

TP-1

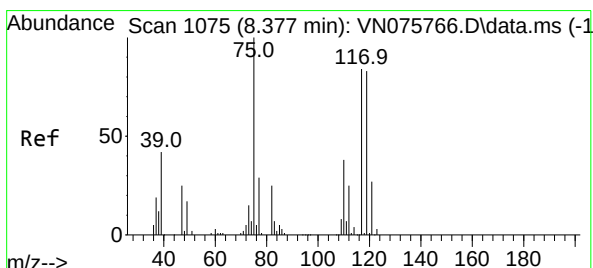
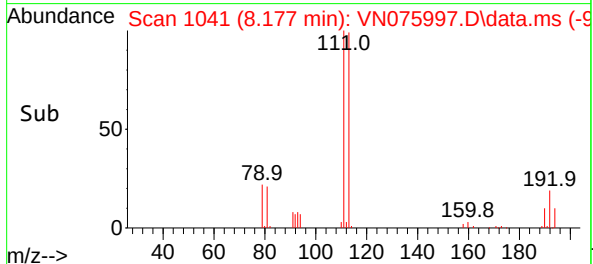
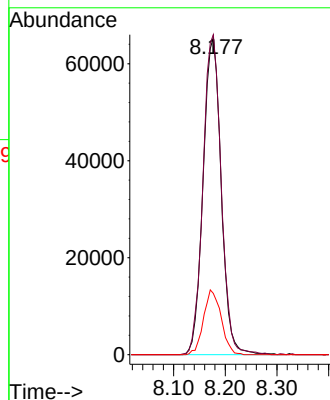
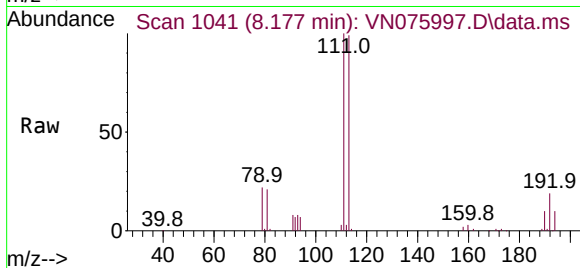
Tgt Ion:113 Resp: 158586

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.2

192 20.0 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.336 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

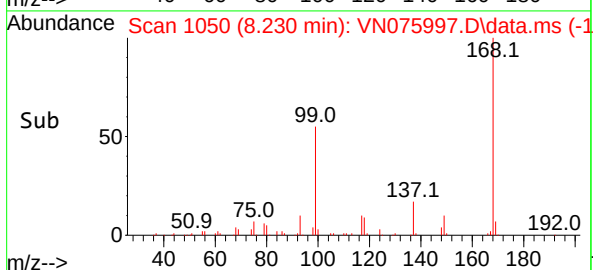
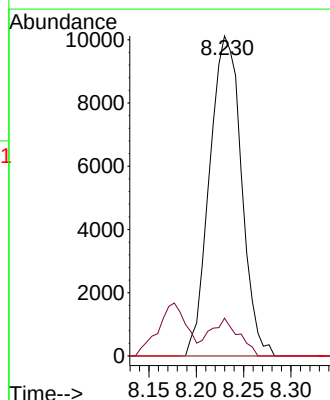
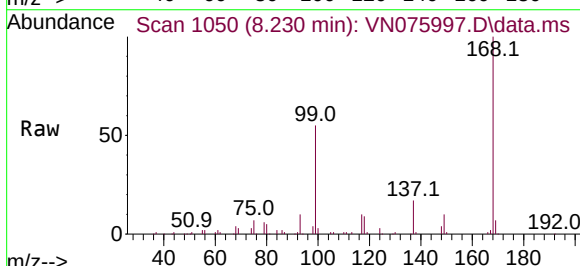
Tgt Ion: 75 Resp: 23694

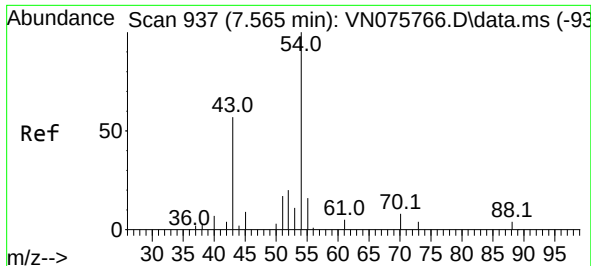
Ion Ratio Lower Upper

75 100

110 10.8 18.8 56.4#

77 0.0 24.1 36.1#

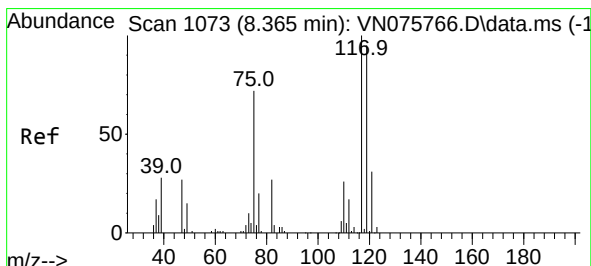
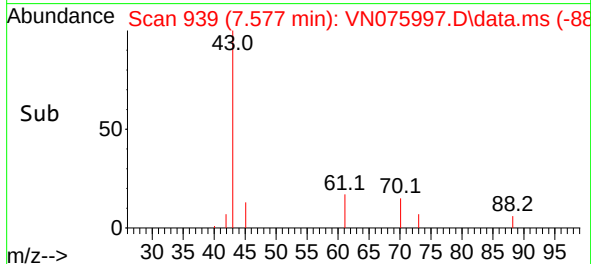
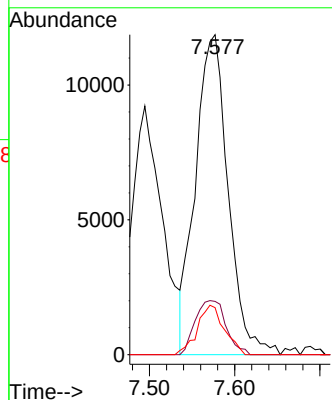
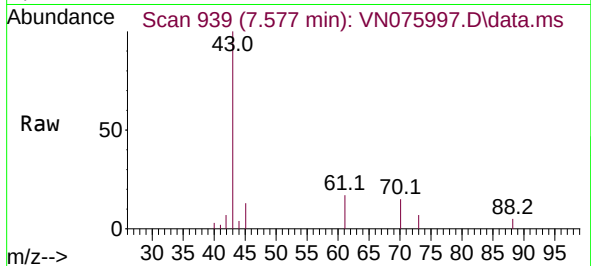




#37
Ethyl Acetate
Concen: 8.854 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

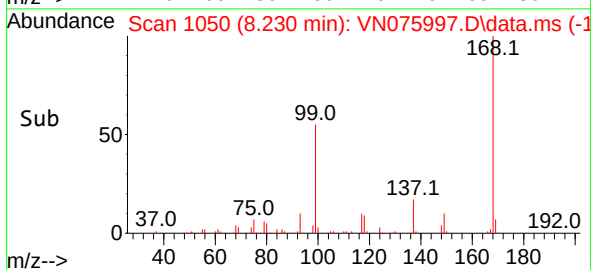
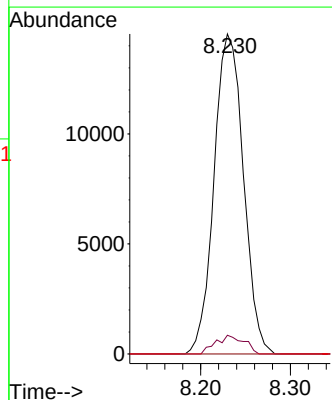
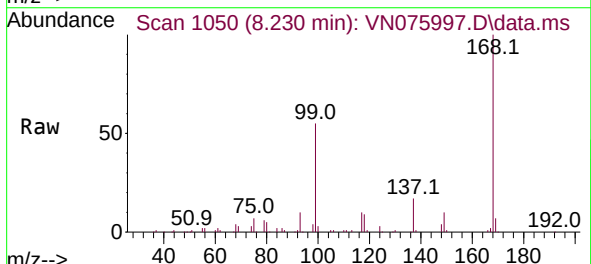
Instrument :
MSVOA_N
ClientSampleId :
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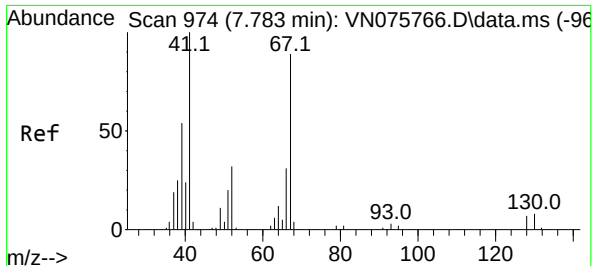
Tgt Ion: 43 Resp: 31582
Ion Ratio Lower Upper
43 100
61 15.9 13.0 19.4
70 12.8 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.643 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 117 Resp: 33017
Ion Ratio Lower Upper
117 100
119 5.9 76.1 114.1#
121 0.0 24.5 36.7#

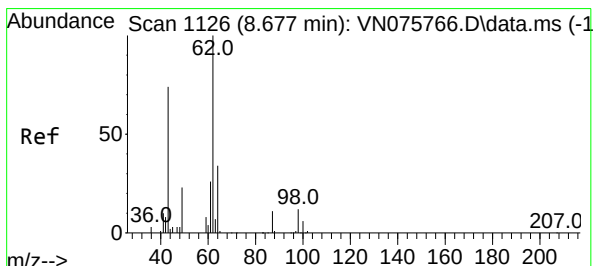
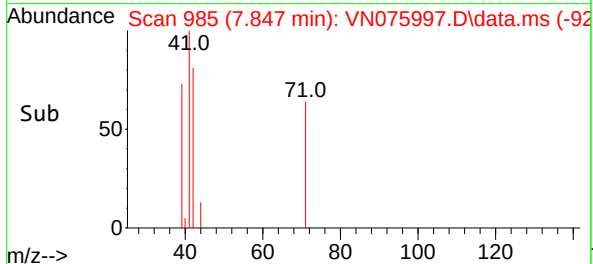
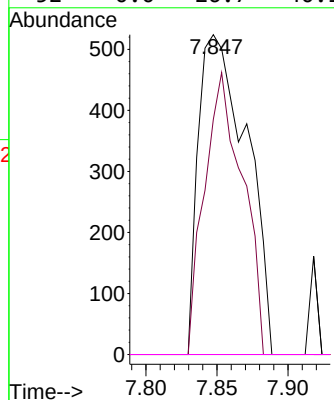
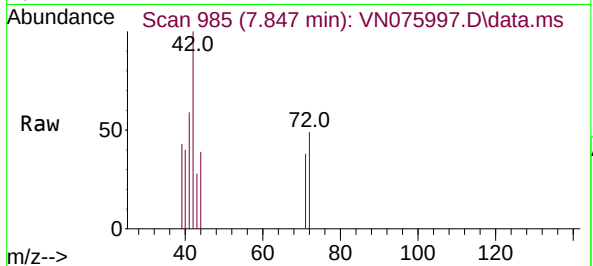




#41
Methacrylonitrile
Concen: 0.667 ug/l
RT: 7.847 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

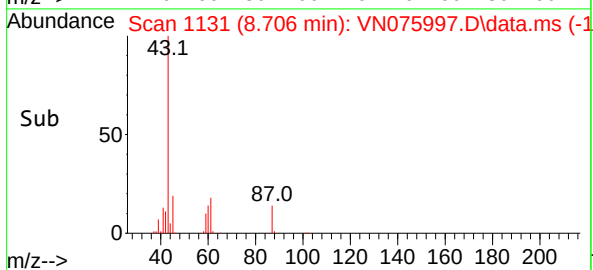
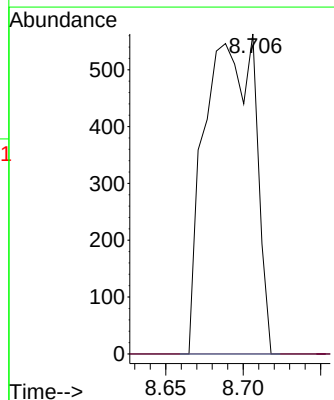
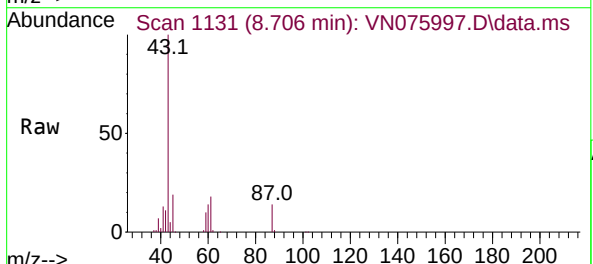
Instrument :
MSVOA_N
ClientSampleId :
TP-1

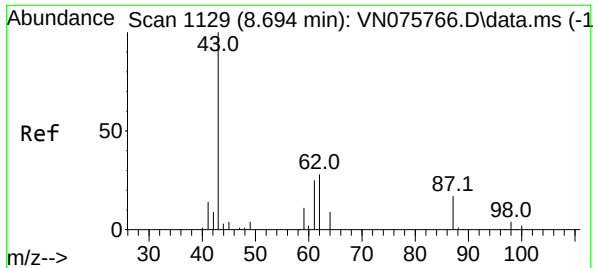
Tgt Ion: 41 Resp: 1236
Ion Ratio Lower Upper
41 100
39 69.7 43.1 64.7#
67 0.0 70.7 106.1#
52 0.0 26.7 40.1#



#42
1,2-Dichloroethane
Concen: 0.276 ug/l
RT: 8.706 min Scan# 1131
Delta R.T. 0.030 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 62 Resp: 1256
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.8

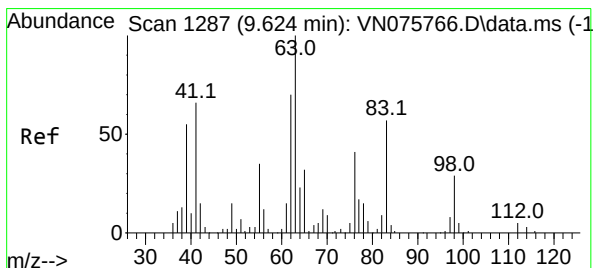
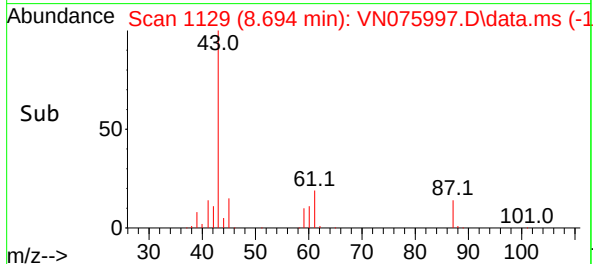
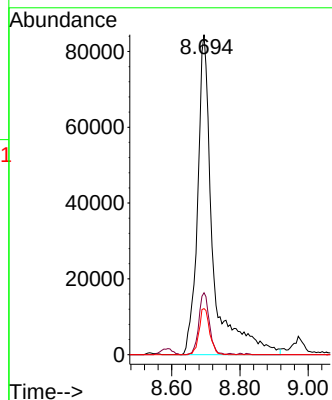
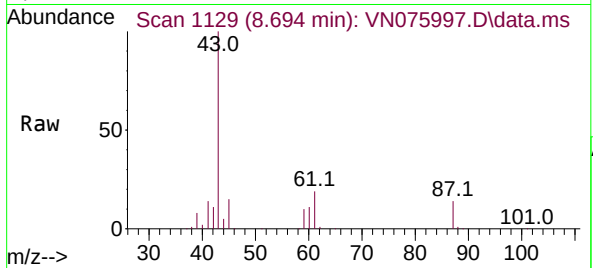




#43
Isopropyl Acetate
Concen: 44.855 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

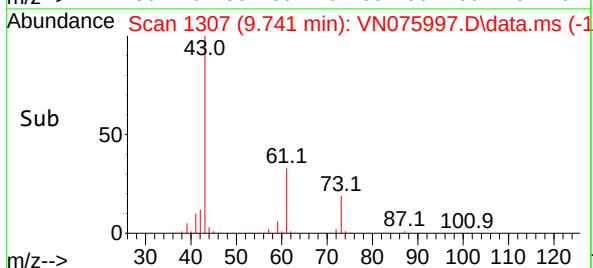
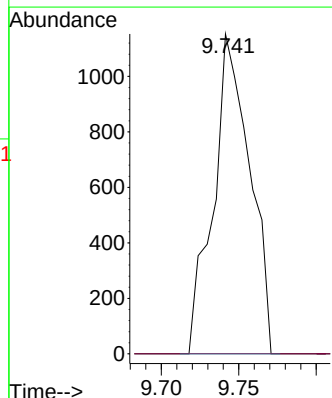
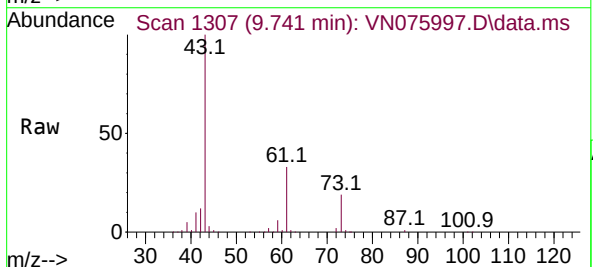
Instrument :
MSVOA_N
ClientSampleId :
TP-1

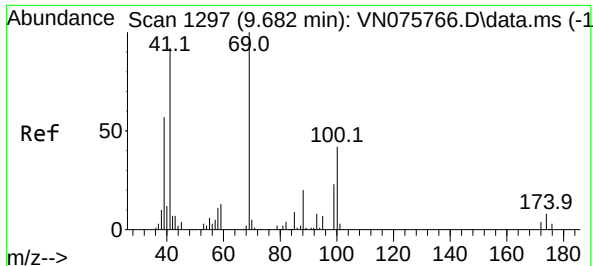
Tgt Ion: 43 Resp: 263931
Ion Ratio Lower Upper
43 100
61 13.2 24.2 36.4#
87 9.9 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.566 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.118 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 63 Resp: 1888
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

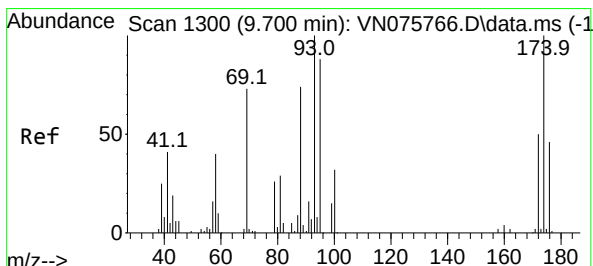
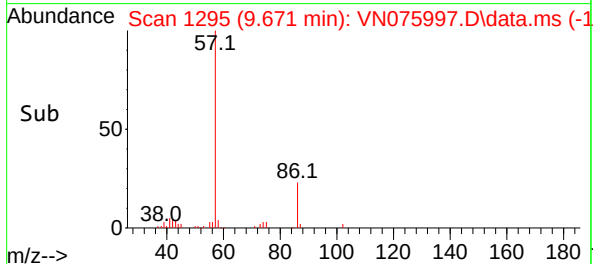
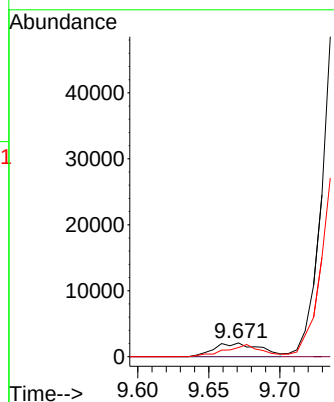
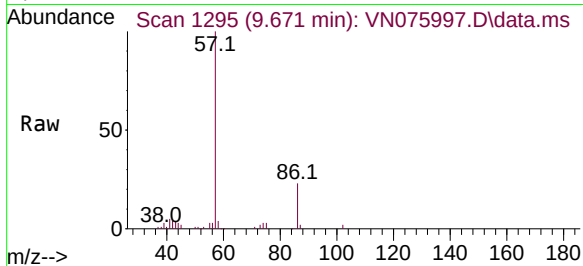




#48
Methyl methacrylate
Concen: 1.761 ug/l
RT: 9.671 min Scan# 1305
Delta R.T. -0.012 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

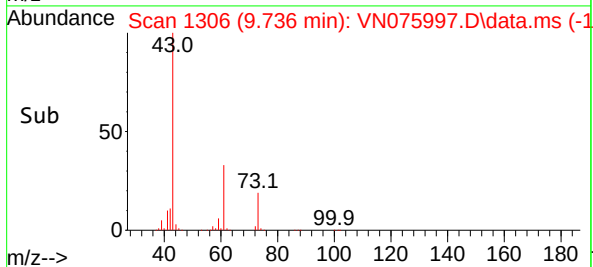
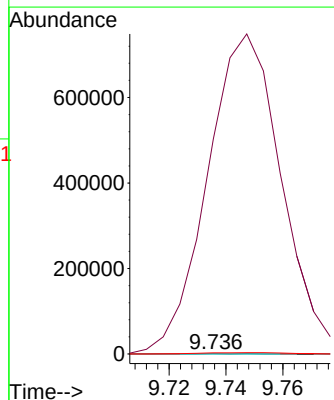
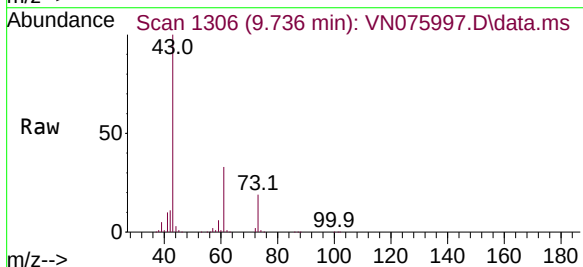
Instrument :
MSVOA_N
ClientSampleId :
TP-1

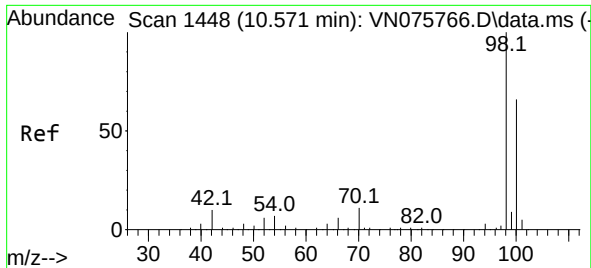
Tgt Ion: 41 Resp: 4667
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 69.4 51.6 77.4



#49
1,4-Dioxane
Concen: 3.269 ug/l
RT: 9.736 min Scan# 1306
Delta R.T. 0.035 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 88 Resp: 213
Ion Ratio Lower Upper
88 100
43 642584.5 17.1 25.7#
58 2950.2 47.8 71.8#

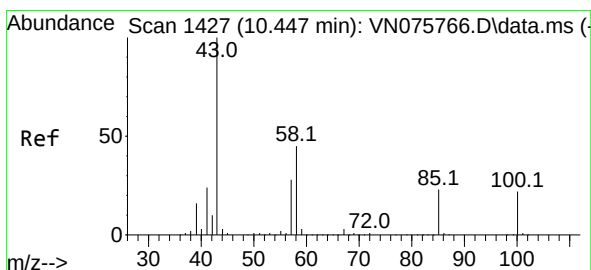
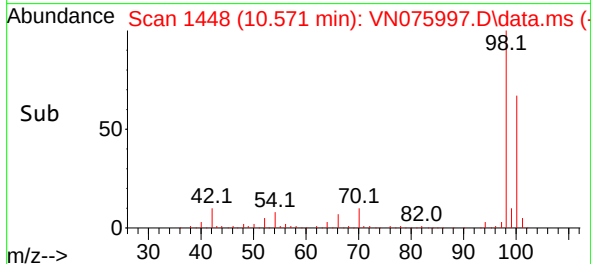
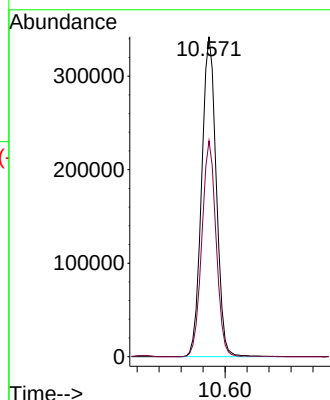
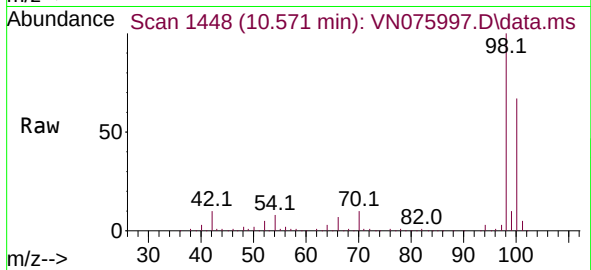




#50
Toluene-d8
Concen: 50.422 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

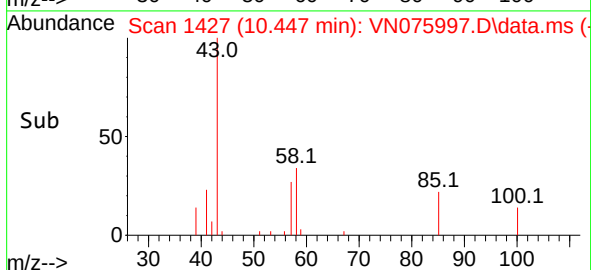
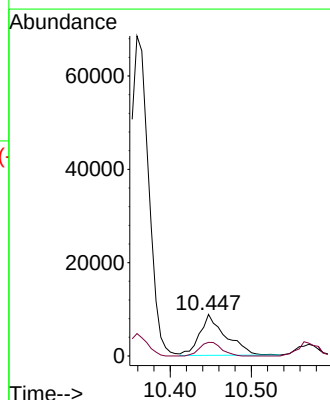
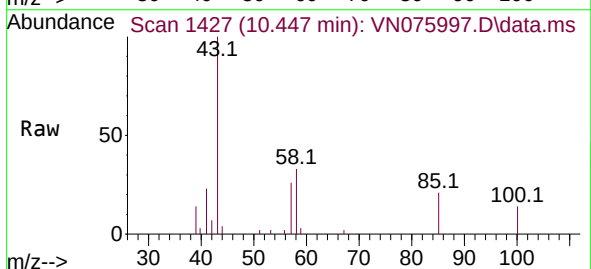
Instrument :
MSVOA_N
ClientSampleId :
TP-1

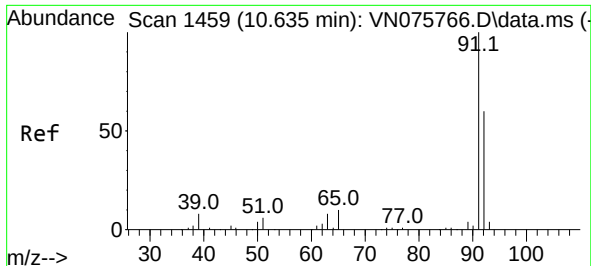
Tgt Ion: 98 Resp: 630221
Ion Ratio Lower Upper
98 100
100 65.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 5.480 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 43 Resp: 19499
Ion Ratio Lower Upper
43 100
58 28.2 35.5 53.3#





#52

Toluene

Concen: 0.309 ug/l

RT: 10.630 min Scan# 1459

Delta R.T. -0.006 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

Instrument :

MSVOA_N

ClientSampleId :

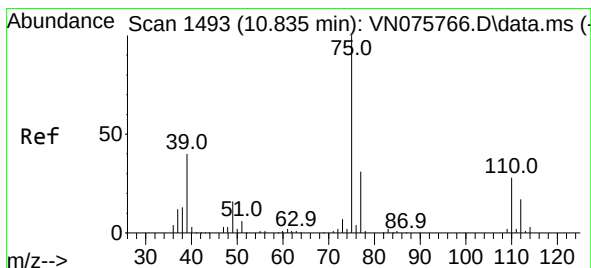
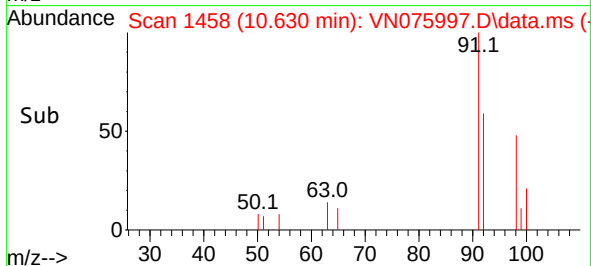
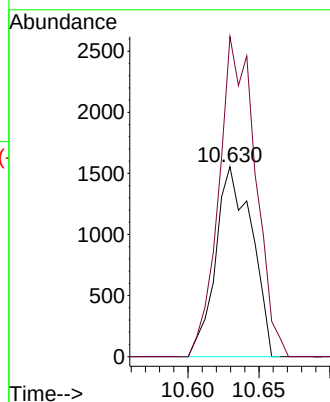
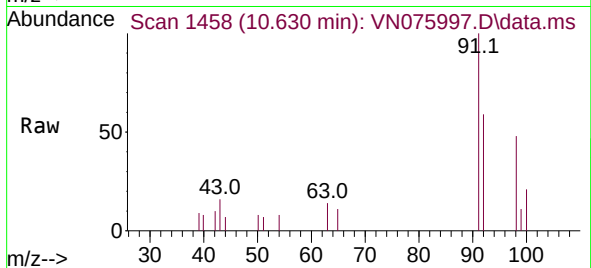
TP-1

Tgt Ion: 92 Resp: 2757

Ion Ratio Lower Upper

92 100

91 169.9 137.3 205.9



#53

t-1,3-Dichloropropene

Concen: 0.242 ug/l

RT: 10.735 min Scan# 1476

Delta R.T. -0.100 min

Lab File: VN075997.D

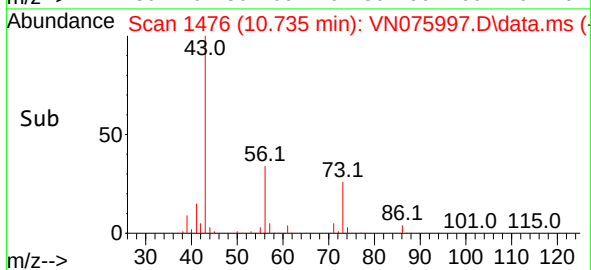
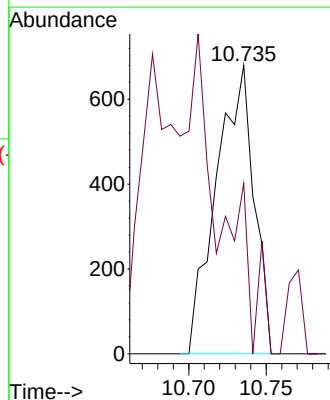
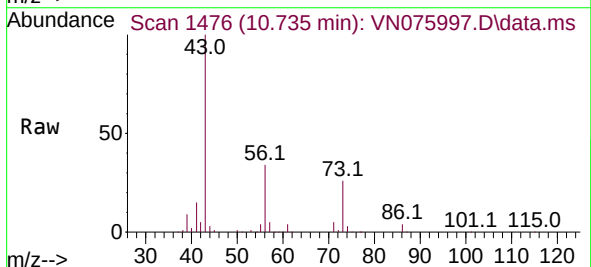
Acq: 28 Dec 2022 14:09

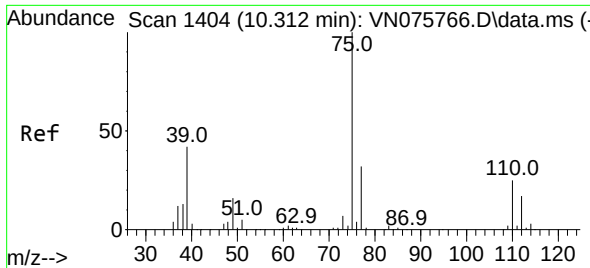
Tgt Ion: 75 Resp: 1148

Ion Ratio Lower Upper

75 100

77 59.1 24.9 37.3#

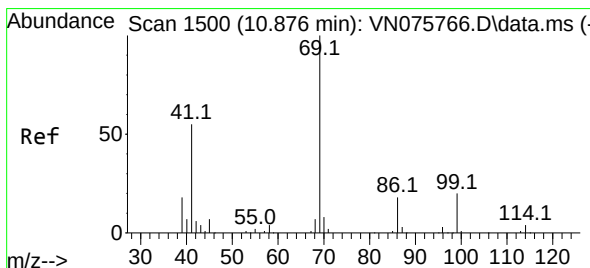
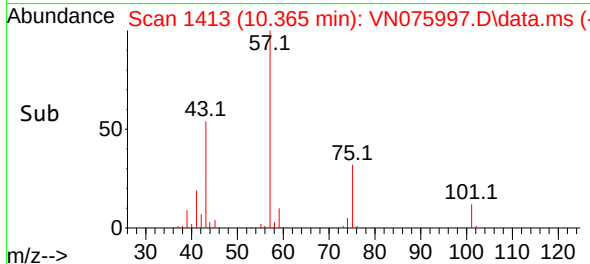
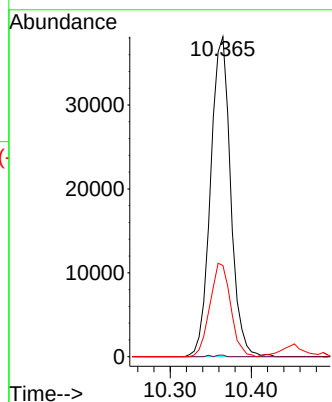
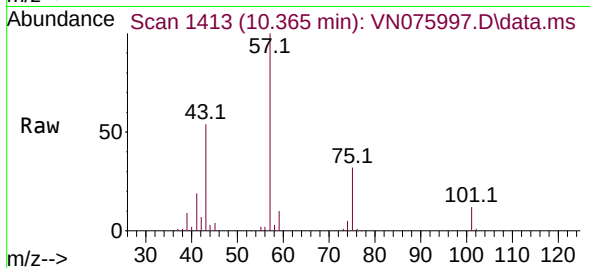




#54
 cis-1,3-Dichloropropene
 Concen: 12.531 ug/l
 RT: 10.365 min Scan# 1413
 Delta R.T. 0.053 min
 Lab File: VN075997.D
 Acq: 28 Dec 2022 14:09

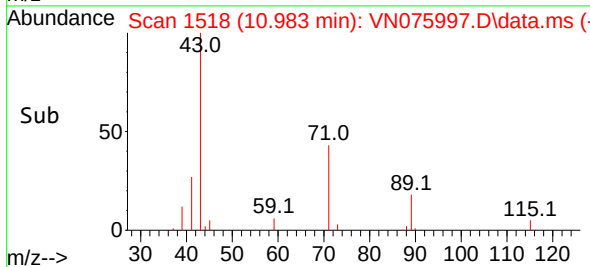
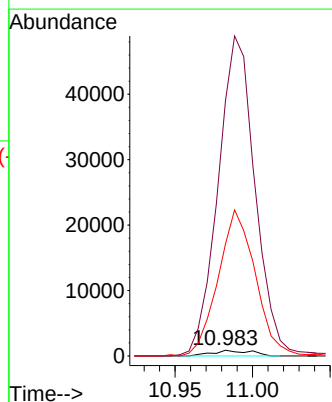
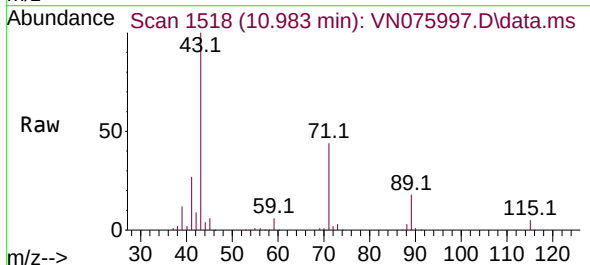
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

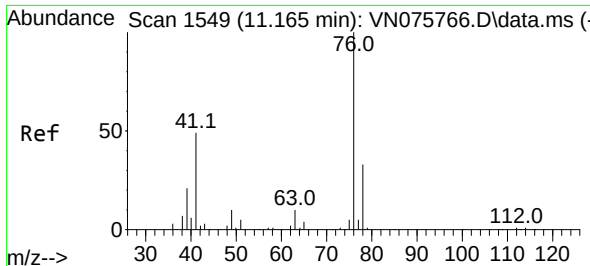
Tgt Ion: 75 Resp: 65315
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.8 38.8#
 39 28.5 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.318 ug/l
 RT: 10.983 min Scan# 1518
 Delta R.T. 0.106 min
 Lab File: VN075997.D
 Acq: 28 Dec 2022 14:09

Tgt Ion: 69 Resp: 1478
 Ion Ratio Lower Upper
 69 100
 41 5510.7 44.2 66.4#
 39 2527.7 26.4 39.6#

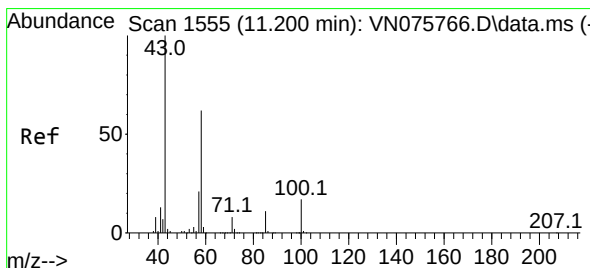
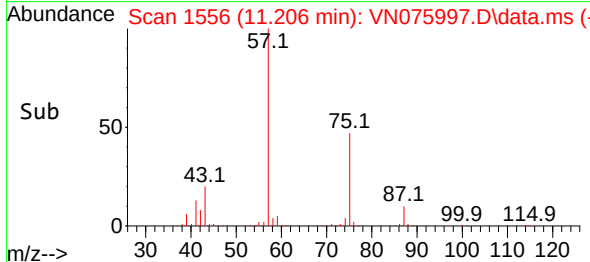
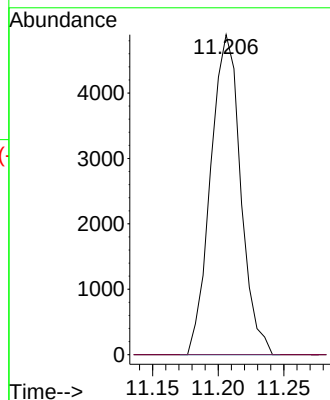
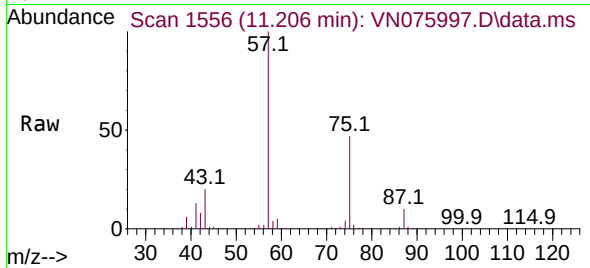




#57
1,3-Dichloropropane
Concen: 1.356 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

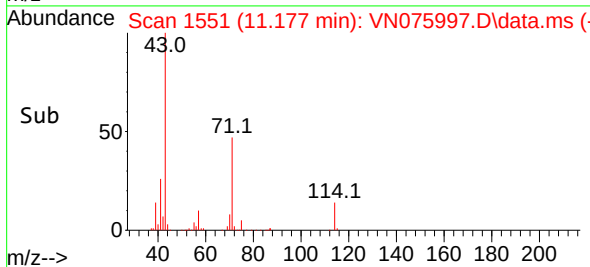
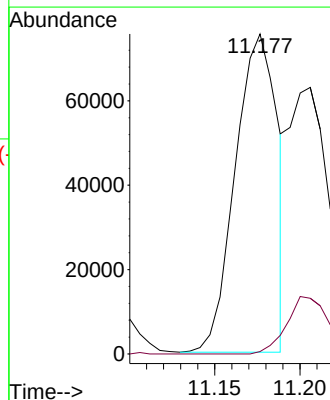
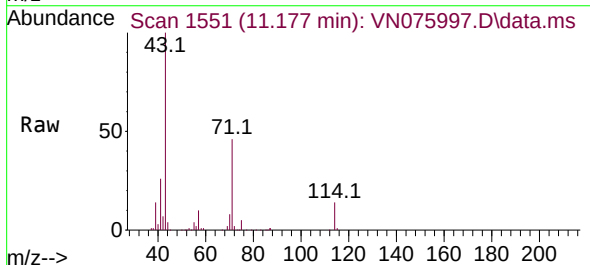
Instrument :
MSVOA_N
ClientSampleId :
TP-1

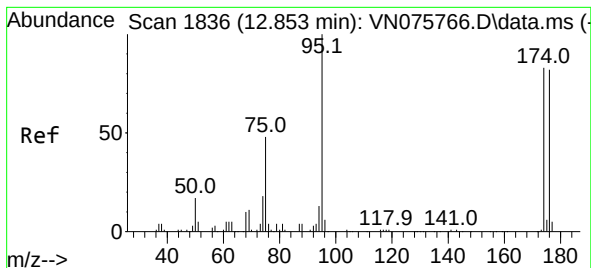
Tgt Ion: 76 Resp: 7788
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#



#59
2-Hexanone
Concen: 49.983 ug/l
RT: 11.177 min Scan# 1551
Delta R.T. -0.023 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion: 43 Resp: 129709
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#





#62

4-Bromofluorobenzene

Concen: 48.499 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.000 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

Instrument :

MSVOA_N

ClientSampleId :

TP-1

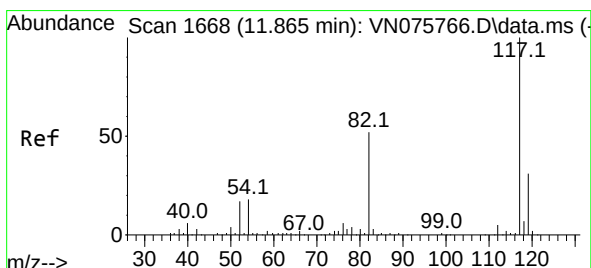
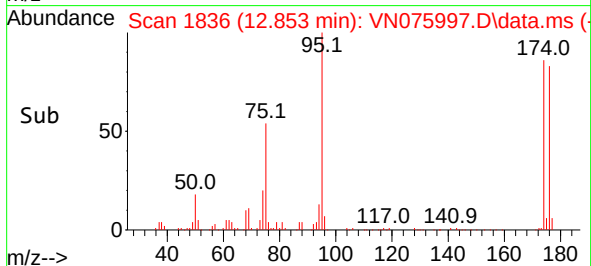
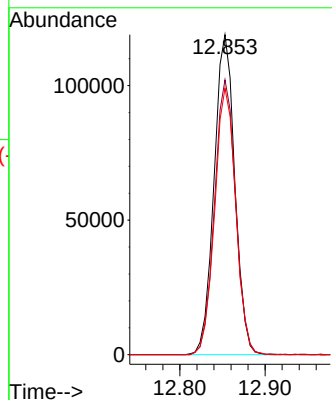
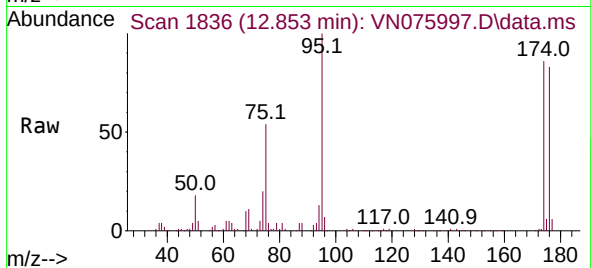
Tgt Ion: 95 Resp: 200776

Ion Ratio Lower Upper

95 100

174 87.3 0.0 171.6

176 84.7 0.0 169.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1669

Delta R.T. 0.006 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

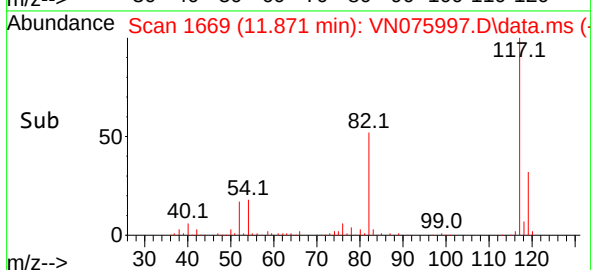
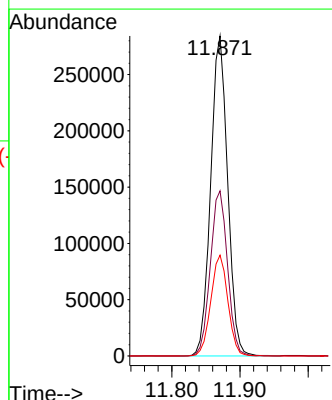
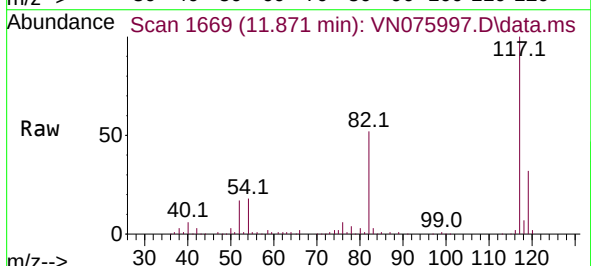
Tgt Ion: 117 Resp: 492241

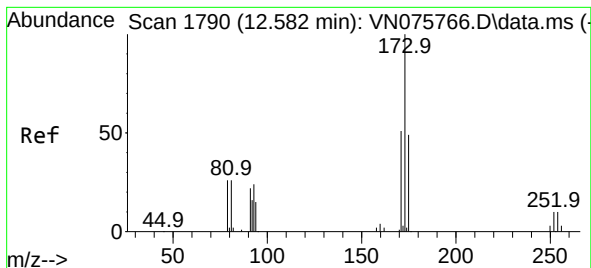
Ion Ratio Lower Upper

117 100

82 51.6 41.3 61.9

119 31.5 24.6 37.0





#71

Bromoform

Concen: 0.597 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

Instrument :

MSVOA_N

ClientSampleId :

TP-1

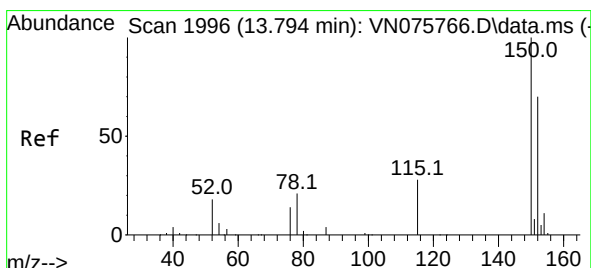
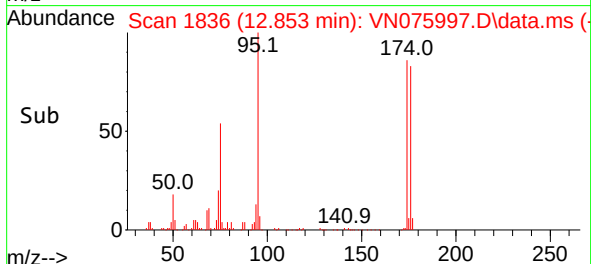
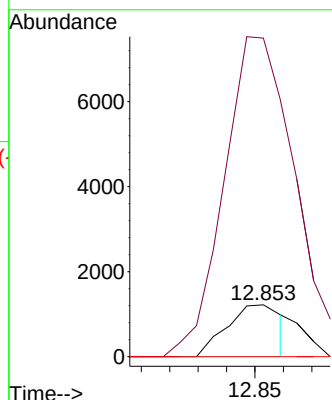
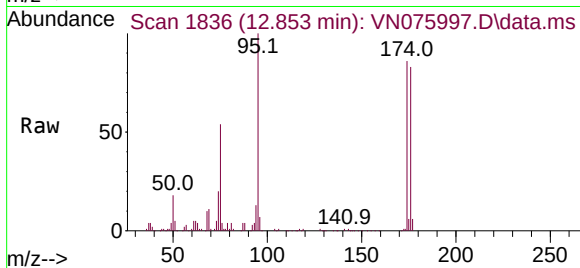
Tgt Ion:173 Resp: 1626

Ion Ratio Lower Upper

173 100

175 644.4 24.3 72.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

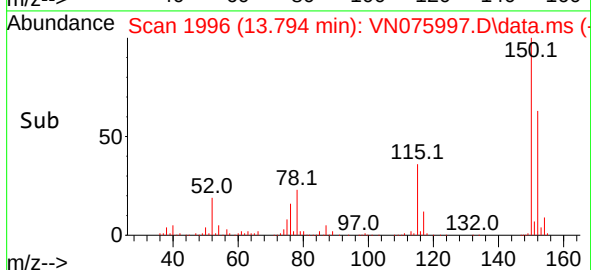
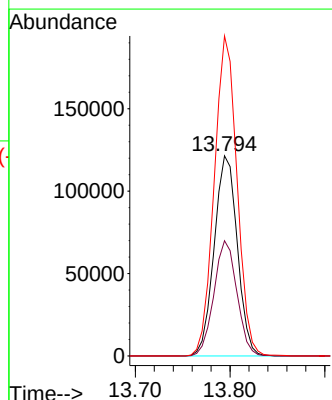
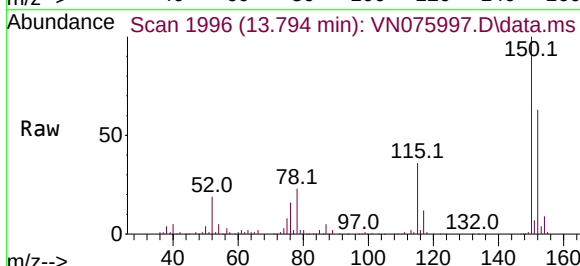
Tgt Ion:152 Resp: 205631

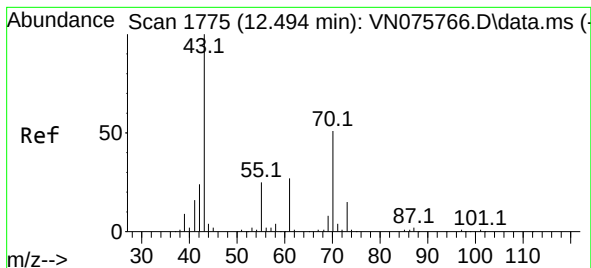
Ion Ratio Lower Upper

152 100

115 57.3 29.1 87.4

150 157.6 0.0 347.0





#74

N-amy1 acetate

Concen: 0.533 ug/l

RT: 12.459 min Scan# 1

Delta R.T. -0.035 min

Lab File: VN075997.D

Acq: 28 Dec 2022 14:09

Instrument :

MSVOA_N

ClientSampleId :

TP-1

Tgt Ion: 43 Resp: 2323

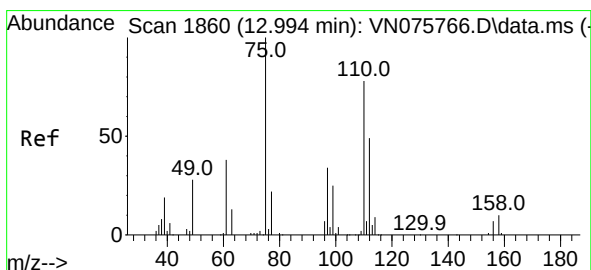
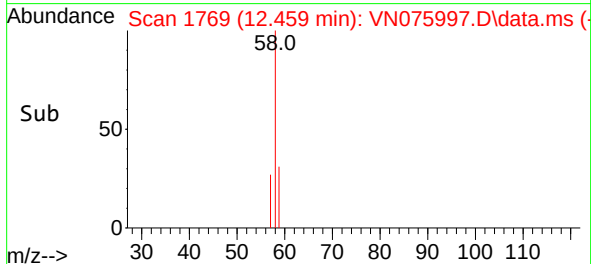
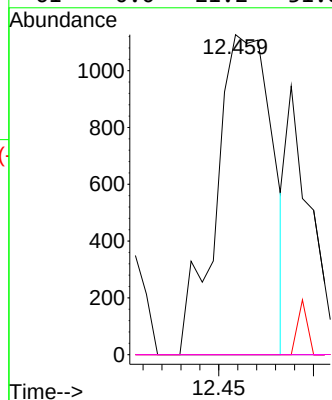
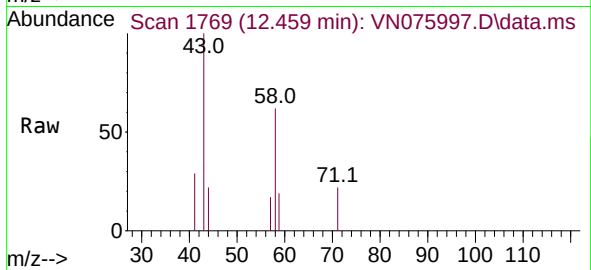
Ion Ratio Lower Upper

43 100

70 0.0 41.4 62.0#

55 0.0 21.3 31.9#

61 0.0 21.2 31.8#



#76

1,2,3-Trichloropropane

Concen: 25.426 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN075997.D

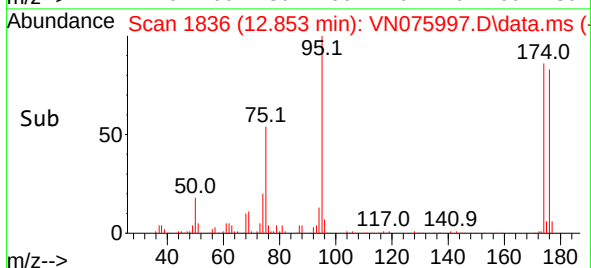
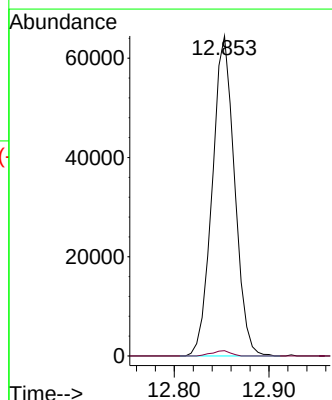
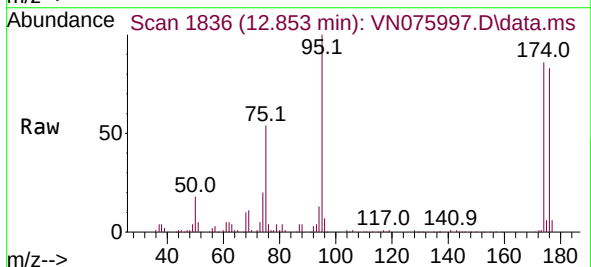
Acq: 28 Dec 2022 14:09

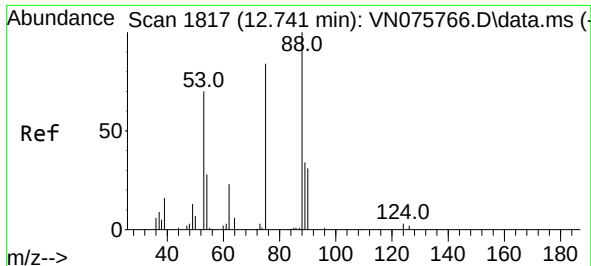
Tgt Ion: 75 Resp: 105391

Ion Ratio Lower Upper

75 100

77 1.4 82.6 247.8#

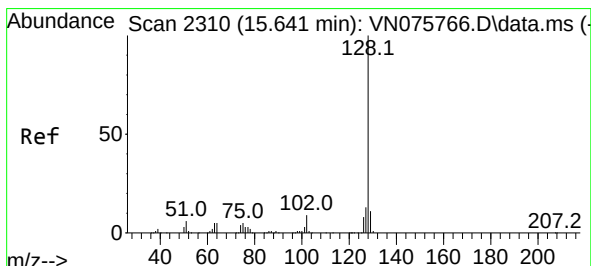
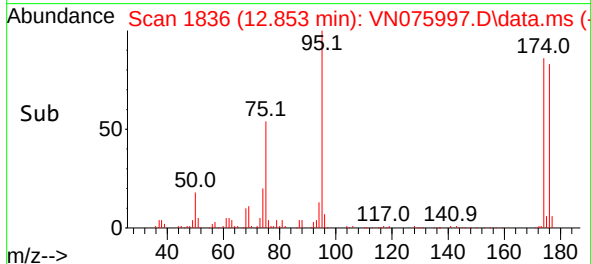
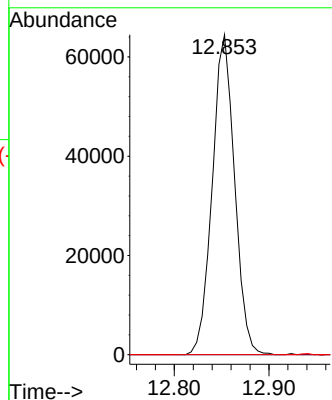
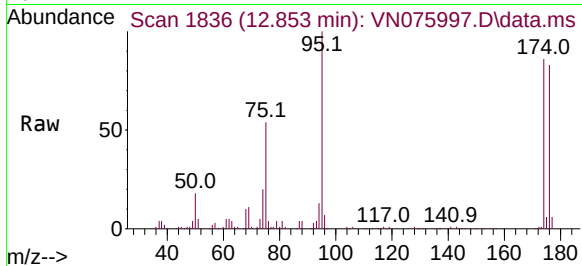




#81
trans-1,4-Dichloro-2-butene
Concen: 91.521 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tgt Ion: 75 Resp: 105391
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 2.336 ug/l
RT: 15.653 min Scan# 2312
Delta R.T. 0.012 min
Lab File: VN075997.D
Acq: 28 Dec 2022 14:09

Tgt Ion:128 Resp: 1858
Ion Ratio Lower Upper
128 100
127 7.2 10.4 15.6#
129 3.0 8.7 13.1#

