

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111022\
 Data File : VN075232.D
 Acq On : 10 Nov 2022 14:10
 Operator : JC\MD
 Sample : PB148933TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB148933TB

Quant Time: Nov 11 04:10:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

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

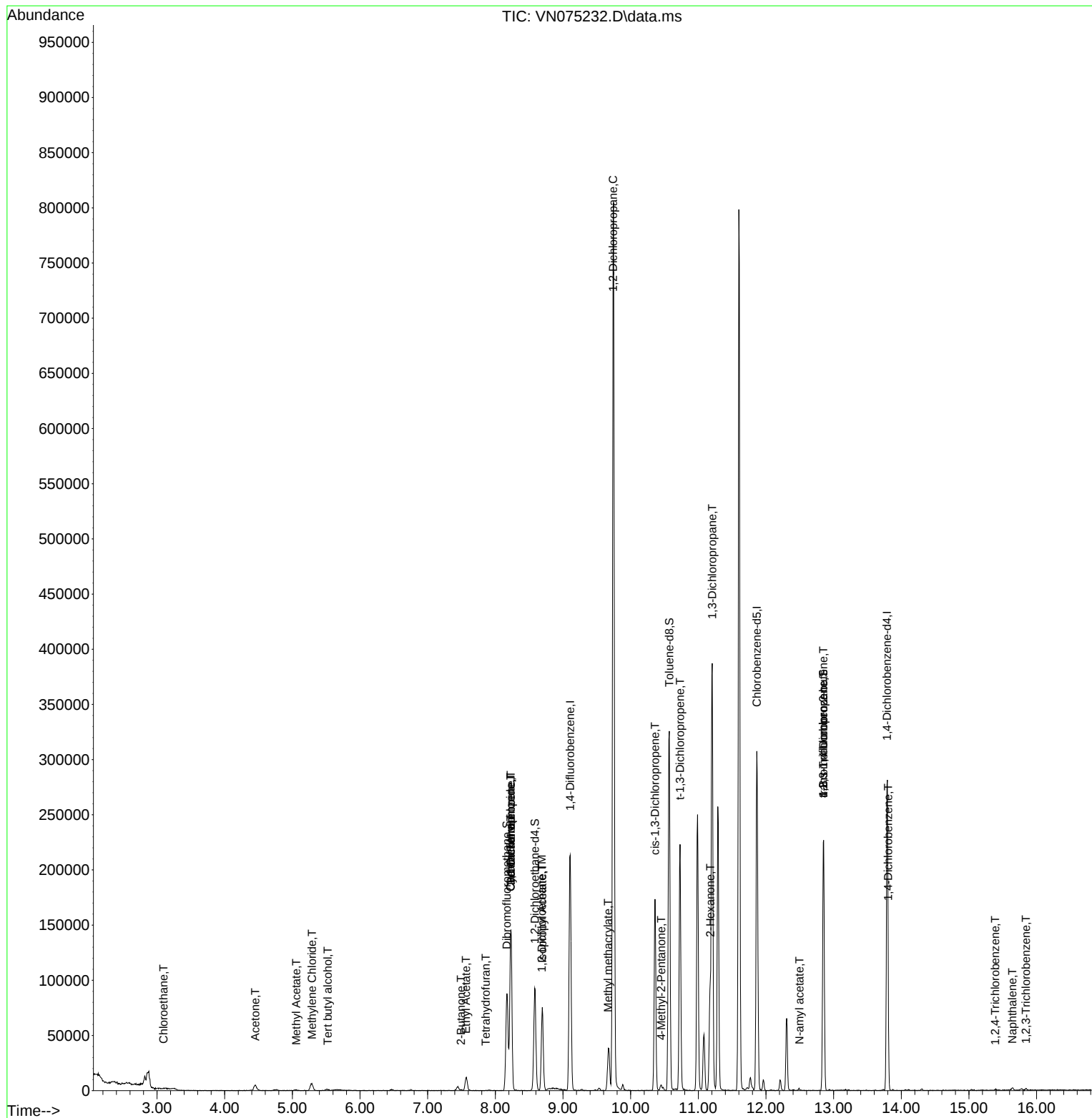
Internal Standards						
1) Pentafluorobenzene	8.230	168	106183	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	197430	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	183002	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	76936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	74972	52.403	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.800%			
35) Dibromofluoromethane	8.171	113	63755	55.008	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.020%			
50) Toluene-d8	10.571	98	232244	51.648	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.300%			
62) 4-Bromofluorobenzene	12.847	95	80906	51.220	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.440%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.942	94	140	Below Cal	#	5
6) Chloroethane	3.095	64	354	0.236	ug/l #	45
11) Tert butyl alcohol	5.524	59	616	1.846	ug/l #	72
16) Acetone	4.453	43	9545	15.756	ug/l	97
18) Methyl Acetate	5.059	43	1920	0.970	ug/l #	54
20) Methylene Chloride	5.289	84	5781	4.280	ug/l #	87
25) 2-Butanone	7.494	43	893	0.937	ug/l #	43
29) Tetrahydrofuran	7.859	42	183	0.297	ug/l #	50
31) Cyclohexane	8.224	56	2501	1.175	ug/l #	33
36) 1,1-Dichloropropene	8.230	75	9021	5.027	ug/l #	49
37) Ethyl Acetate	7.565	43	17449	8.867	ug/l	100
38) Carbon Tetrachloride	8.224	117	11719	5.937	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	514	0.257	ug/l #	75
43) Isopropyl Acetate	8.694	43	77522	25.397	ug/l	92
45) 1,2-Dichloropropane	9.741	63	1123	0.859	ug/l #	42
48) Methyl methacrylate	9.665	41	2387	1.705	ug/l #	33
51) 4-Methyl-2-Pentanone	10.453	43	4034	2.048	ug/l #	82
53) t-1,3-Dichloropropene	10.729	75	590	0.283	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	32969	14.929	ug/l #	66
57) 1,3-Dichloropropane	11.206	76	4025	1.660	ug/l #	42
59) 2-Hexanone	11.176	43	68938	46.114	ug/l #	21
74) N-amyl acetate	12.494	43	930	0.407	ug/l #	38
76) 1,2,3-Trichloropropane	12.847	75	41428	25.361	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	41428	65.100	ug/l #	10
88) 1,4-Dichlorobenzene	13.806	146	547	0.208	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.388	180	580	0.509	ug/l #	68
95) Naphthalene	15.641	128	3440	0.785	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.841	180	615	0.543	ug/l #	89

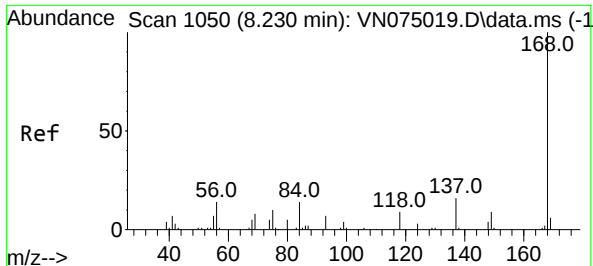
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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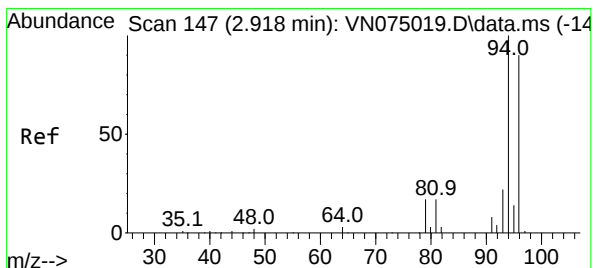
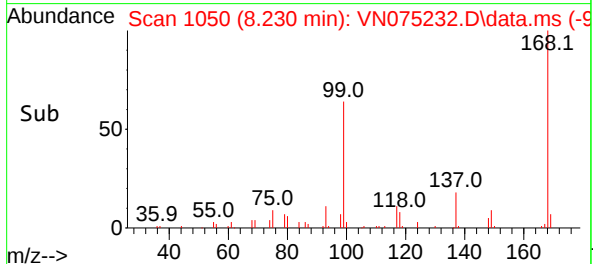
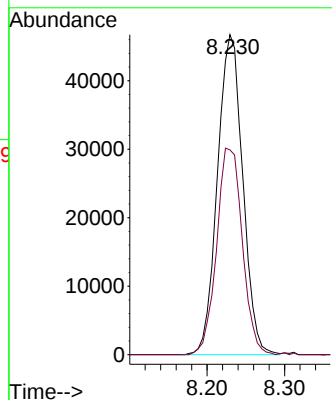
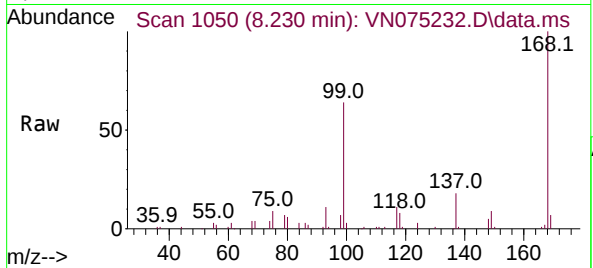




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

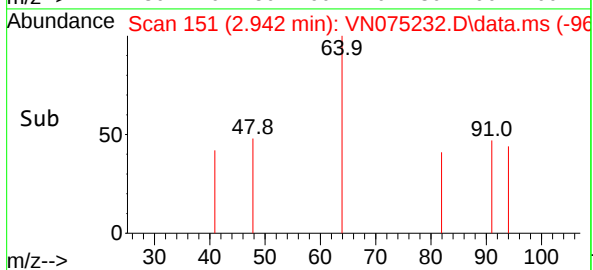
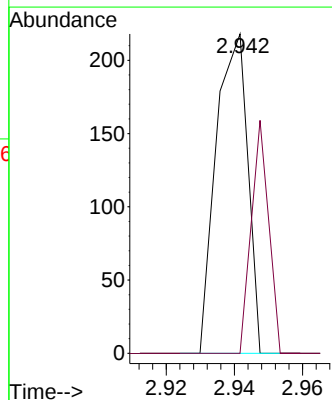
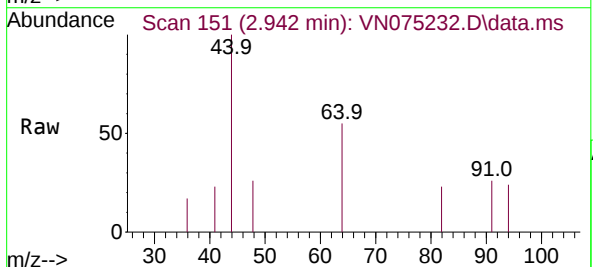
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

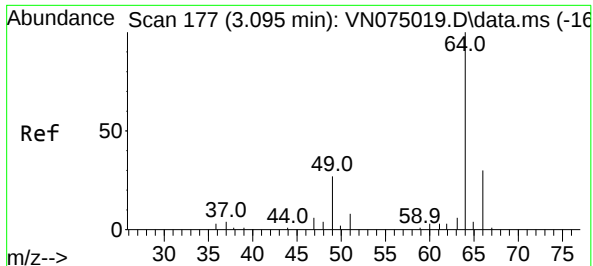
Tgt Ion:168 Resp: 106183
Ion Ratio Lower Upper
168 100
99 64.0 51.6 77.4



#5
Bromomethane
Concen: Below Cal
RT: 2.942 min Scan# 151
Delta R.T. 0.024 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 94 Resp: 140
Ion Ratio Lower Upper
94 100
96 0.0 71.8 107.6#

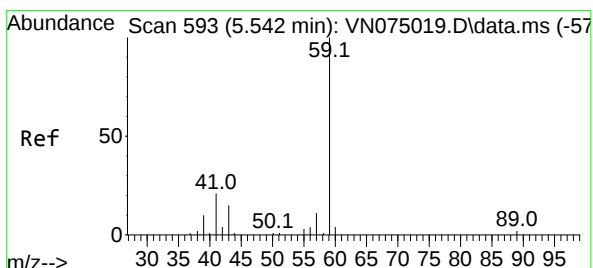
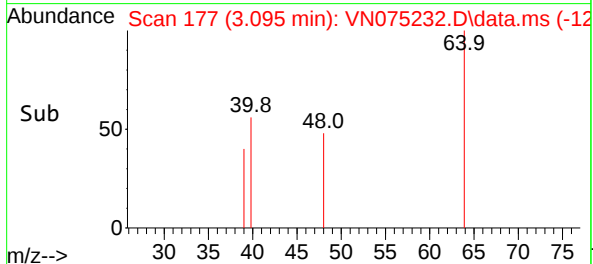
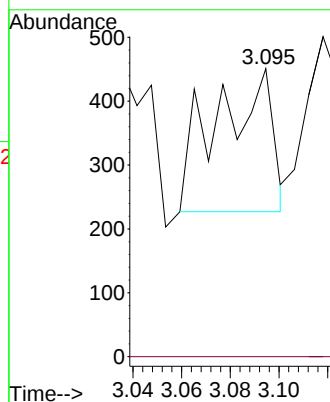
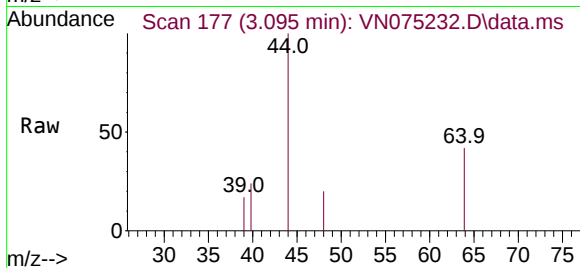




#6
Chloroethane
Concen: 0.236 ug/l
RT: 3.095 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

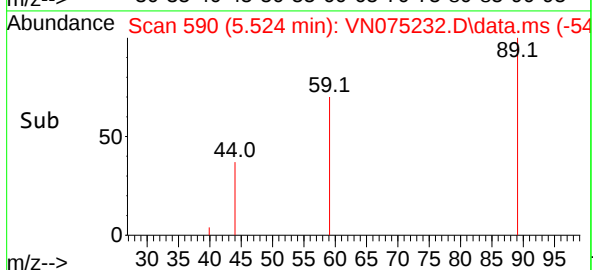
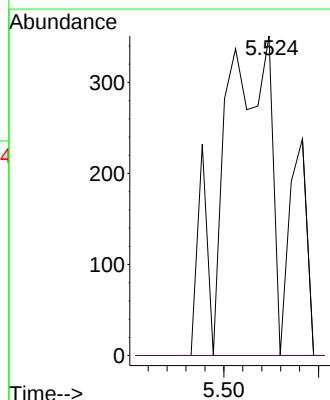
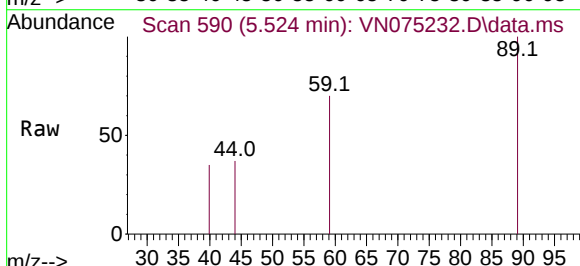
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

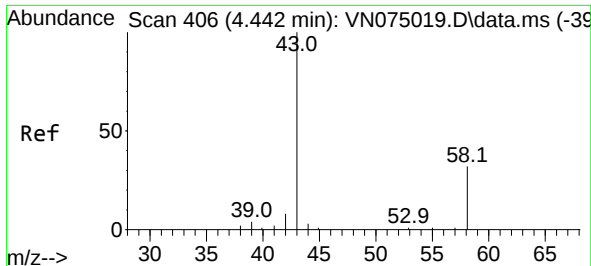
Tgt Ion: 64 Resp: 354
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#



#11
Tert butyl alcohol
Concen: 1.846 ug/l
RT: 5.524 min Scan# 590
Delta R.T. -0.018 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 59 Resp: 616
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

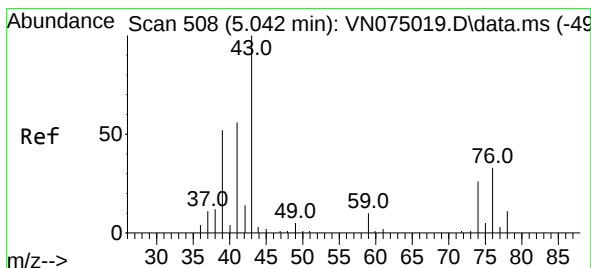
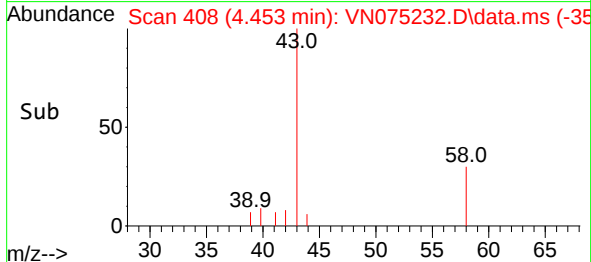
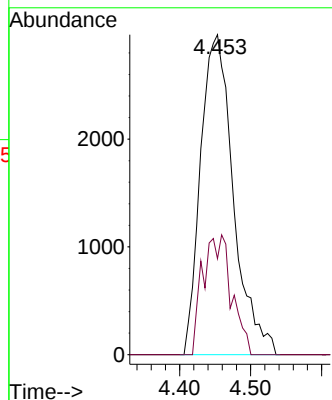
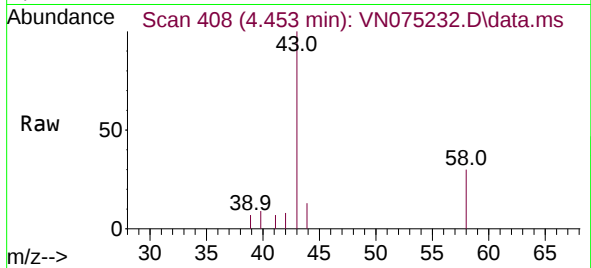




#16
Acetone
Concen: 15.756 ug/l
RT: 4.453 min Scan# 406
Delta R.T. 0.011 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

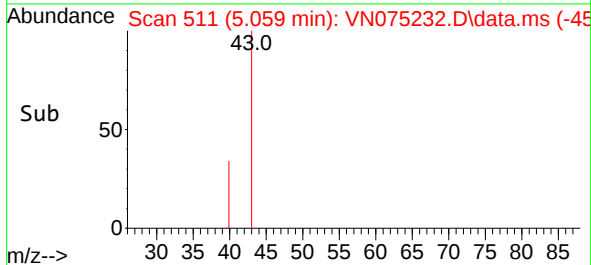
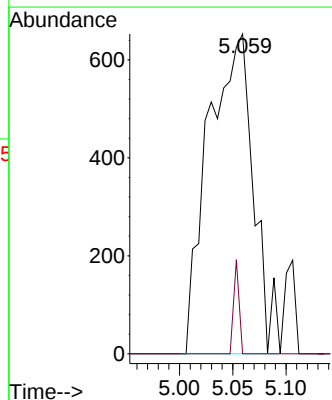
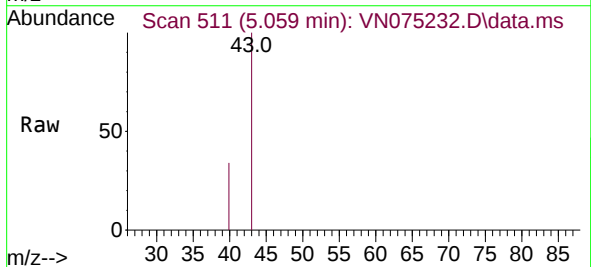
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

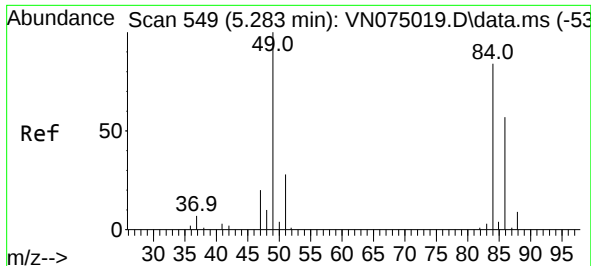
Tgt Ion: 43 Resp: 9545
Ion Ratio Lower Upper
43 100
58 30.0 25.5 38.3



#18
Methyl Acetate
Concen: 0.970 ug/l
RT: 5.059 min Scan# 511
Delta R.T. 0.017 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 43 Resp: 1920
Ion Ratio Lower Upper
43 100
74 3.5 22.0 33.0#

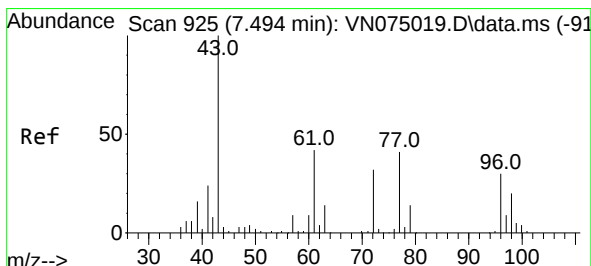
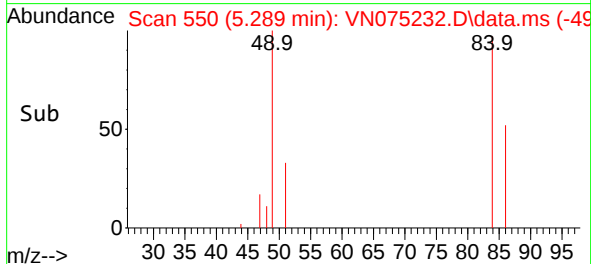
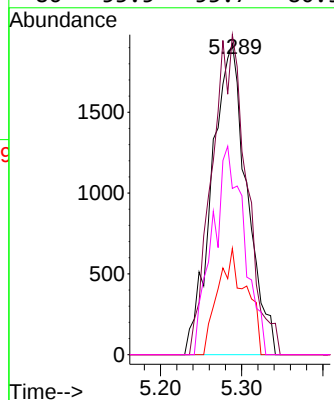
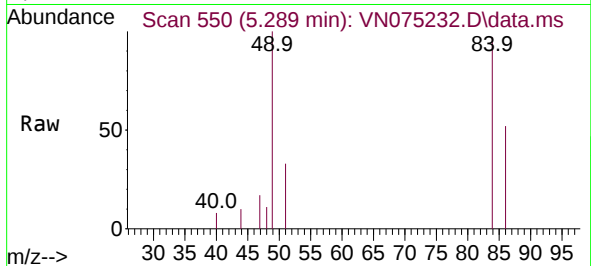




#20
Methylene Chloride
Concen: 4.280 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

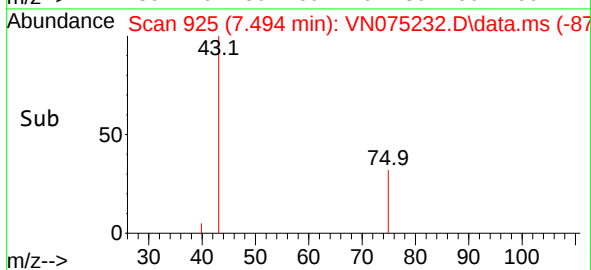
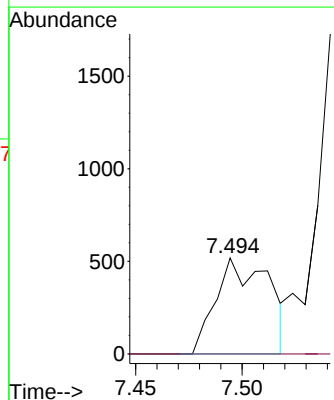
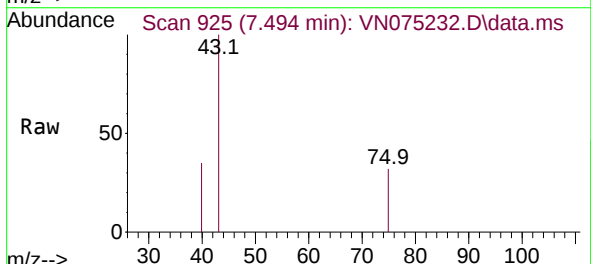
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

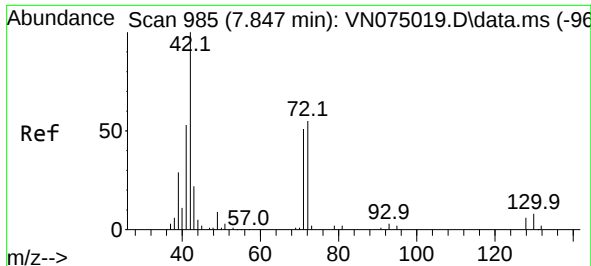
Tgt Ion: 84	Resp: 5781
Ion Ratio	Lower Upper
84 100	
49 102.9	94.9 142.3
51 34.2	26.8 40.2
86 53.5	53.7 80.5#



#25
2-Butanone
Concen: 0.937 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 43	Resp: 893
Ion Ratio	Lower Upper
43 100	
72 0.0	25.5 38.3#





#29

Tetrahydrofuran

Concen: 0.297 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

PB148933TB

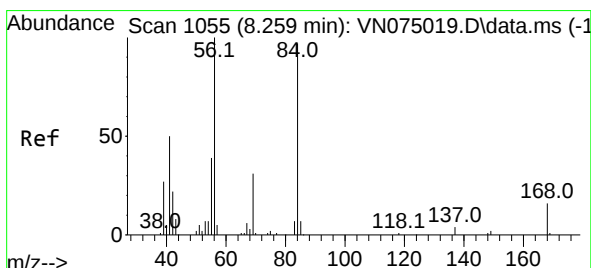
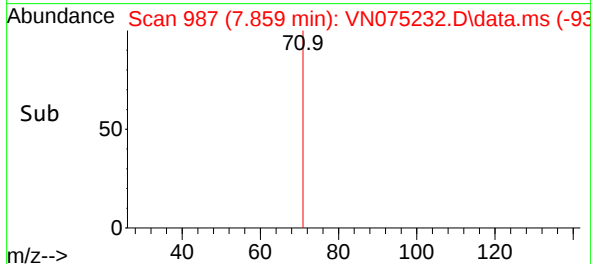
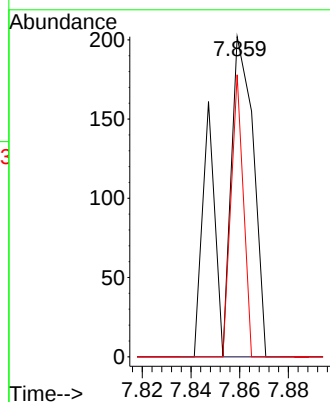
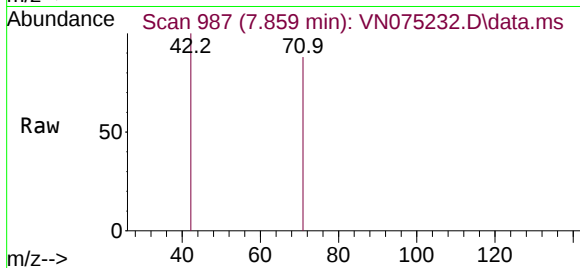
Tgt Ion: 42 Resp: 183

Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.6#

71 34.4 39.9 59.9#



#31

Cyclohexane

Concen: 1.175 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.035 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

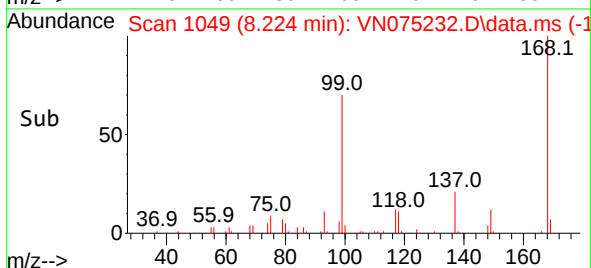
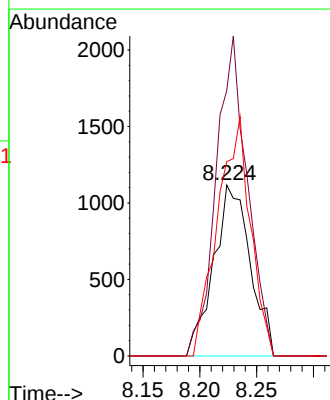
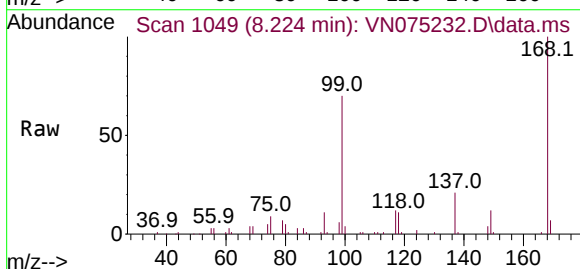
Tgt Ion: 56 Resp: 2501

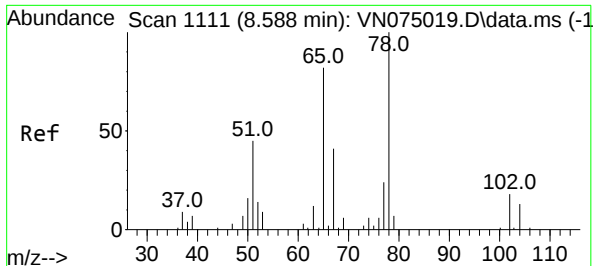
Ion Ratio Lower Upper

56 100

69 155.3 25.2 37.8#

84 113.8 77.8 116.8





#33

1,2-Dichloroethane-d4

Concen: 52.403 ug/l

RT: 8.582 min Scan# 1111

Delta R.T. -0.006 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

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ClientSampleId :

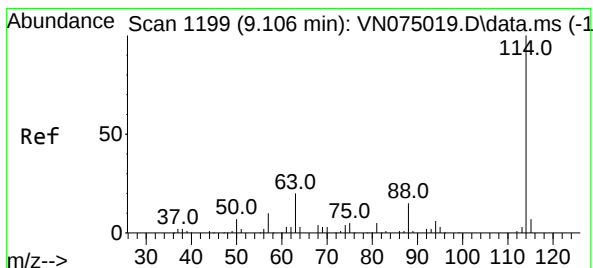
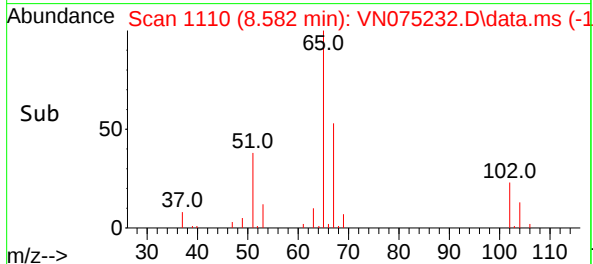
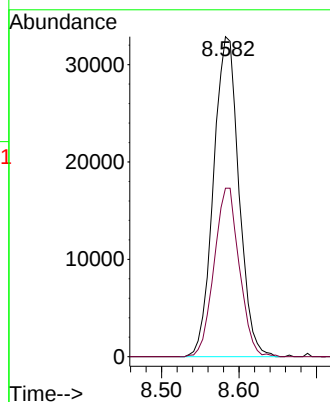
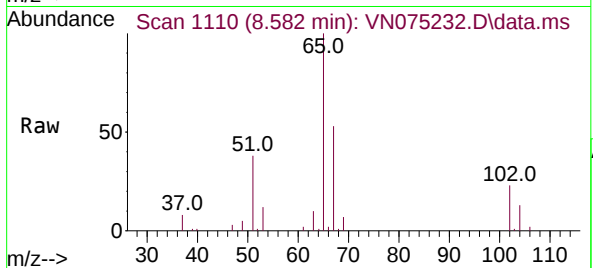
PB148933TB

Tgt Ion: 65 Resp: 74972

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

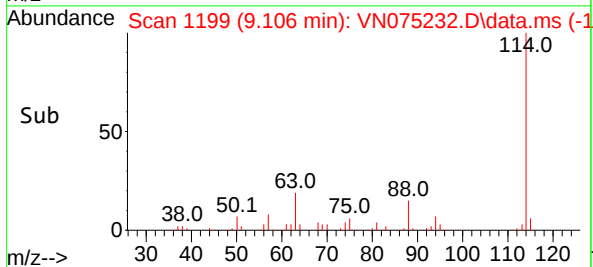
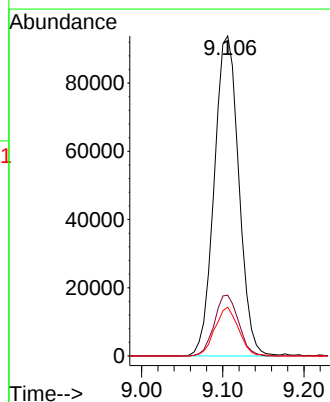
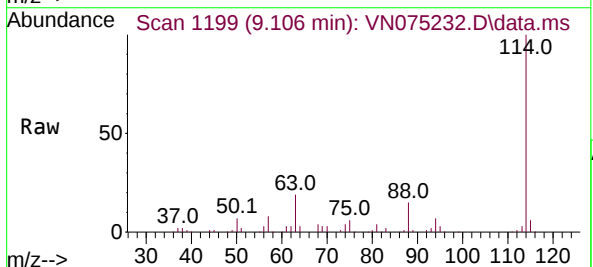
Tgt Ion: 114 Resp: 197430

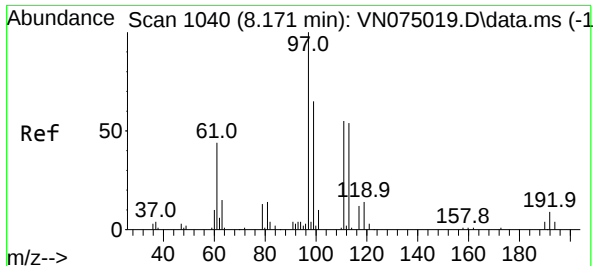
Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 15.2 0.0 29.0





#35

Dibromofluoromethane

Concen: 55.008 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

PB148933TB

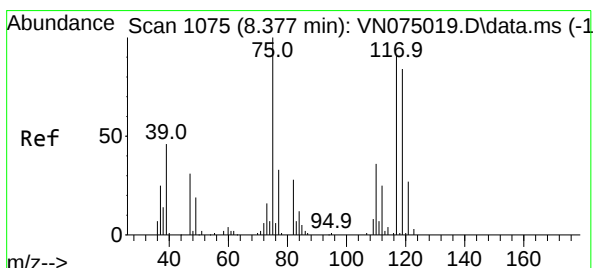
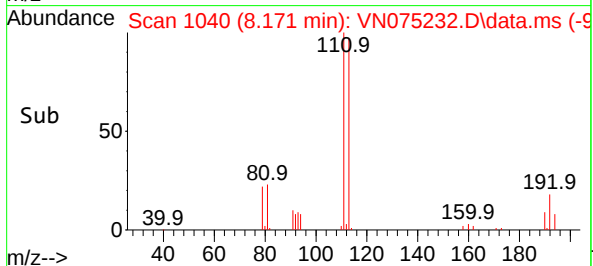
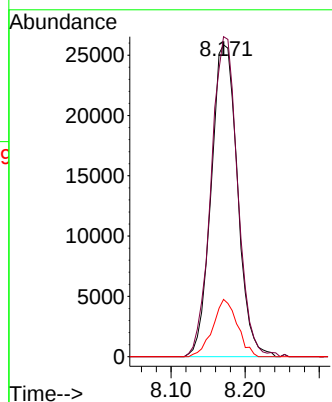
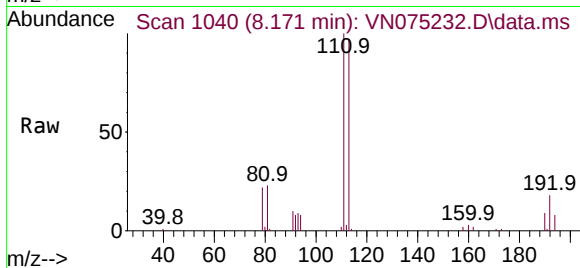
Tgt Ion:113 Resp: 63755

Ion Ratio Lower Upper

113 100

111 103.5 80.5 120.7

192 17.1 13.2 19.8



#36

1,1-Dichloropropene

Concen: 5.027 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

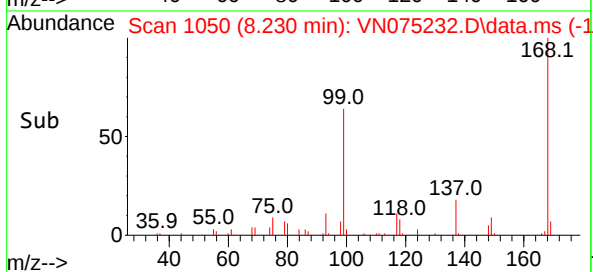
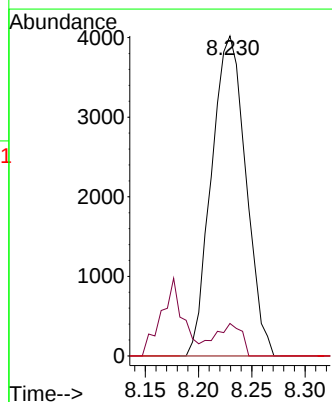
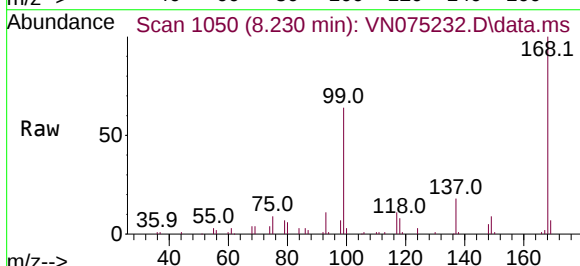
Tgt Ion: 75 Resp: 9021

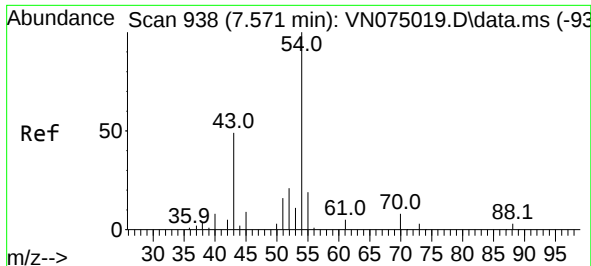
Ion Ratio Lower Upper

75 100

110 8.0 17.8 53.3#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 8.867 ug/l

RT: 7.565 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

PB148933TB

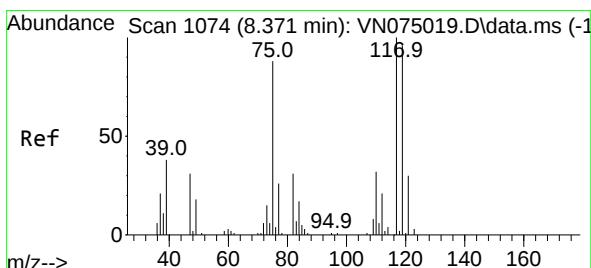
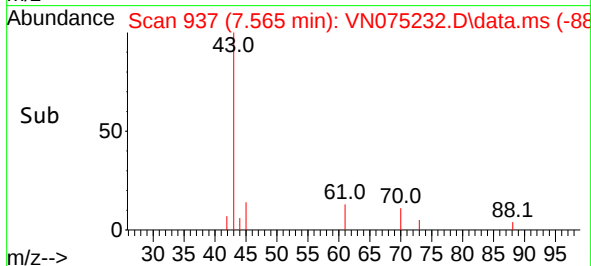
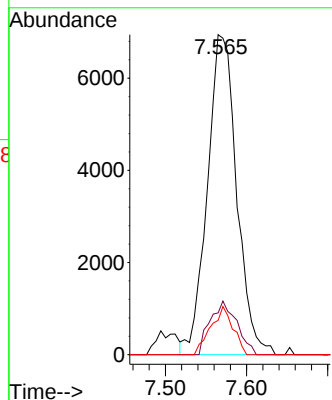
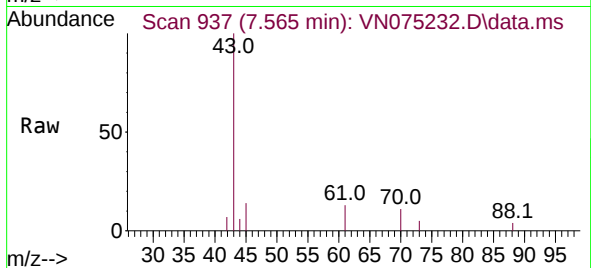
Tgt Ion: 43 Resp: 17449

Ion Ratio Lower Upper

43 100

61 15.3 12.2 18.4

70 11.4 9.4 14.2



#38

Carbon Tetrachloride

Concen: 5.937 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.147 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

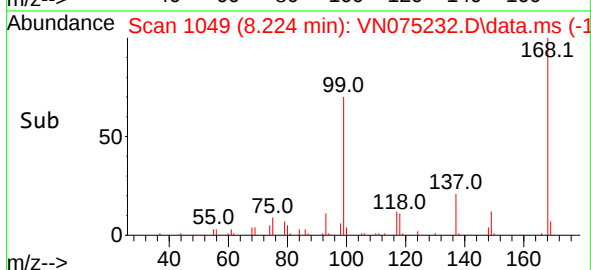
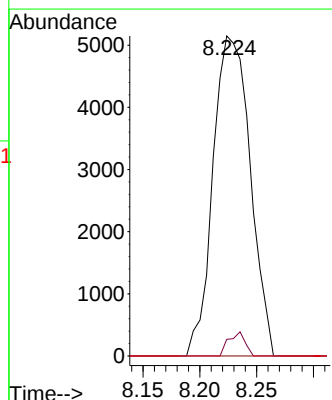
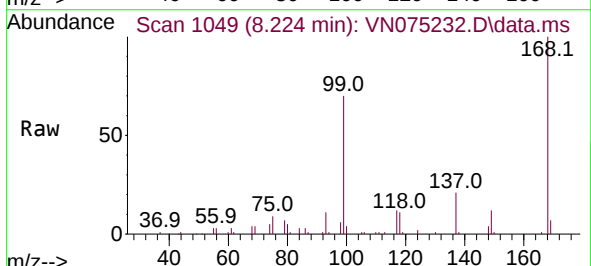
Tgt Ion: 117 Resp: 11719

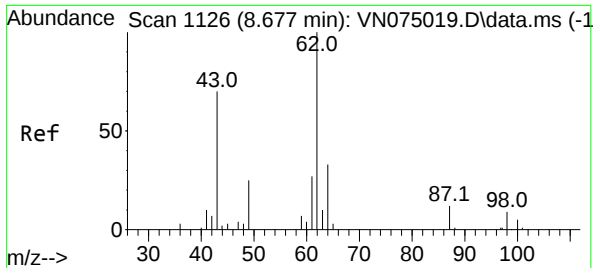
Ion Ratio Lower Upper

117 100

119 5.2 76.7 115.1#

121 0.0 23.9 35.9#

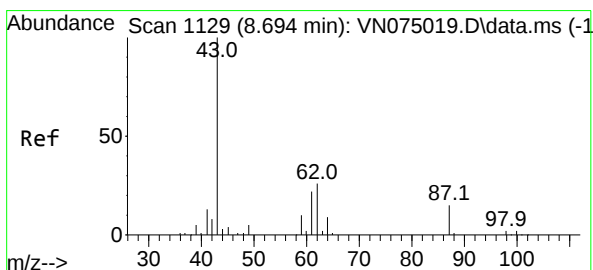
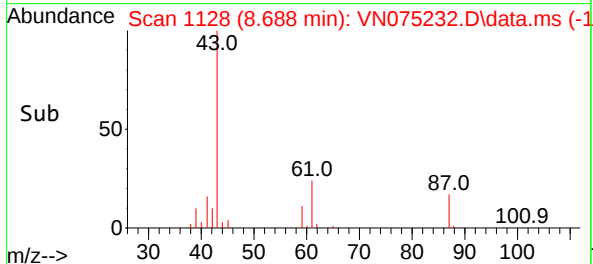
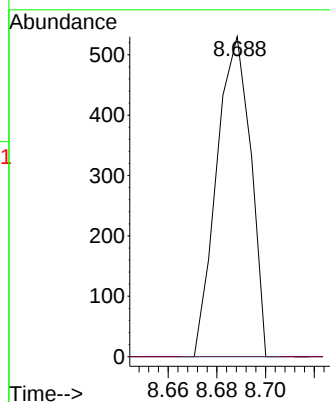
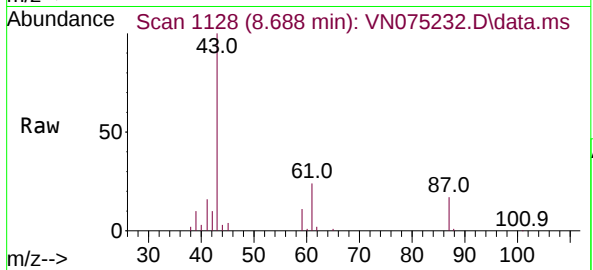




#42
1,2-Dichloroethane
Concen: 0.257 ug/l
RT: 8.688 min Scan# 1128
Delta R.T. 0.011 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

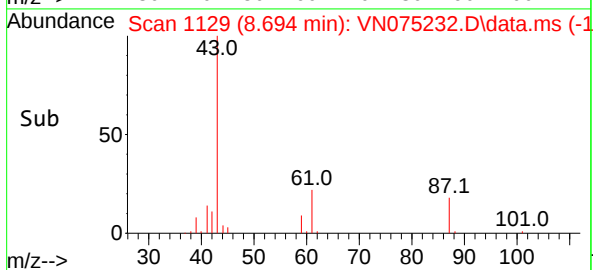
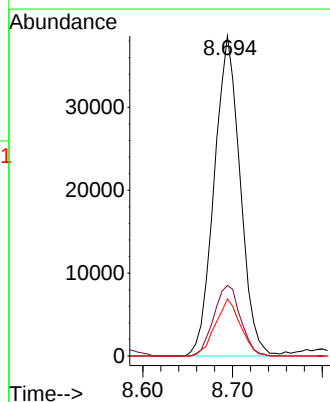
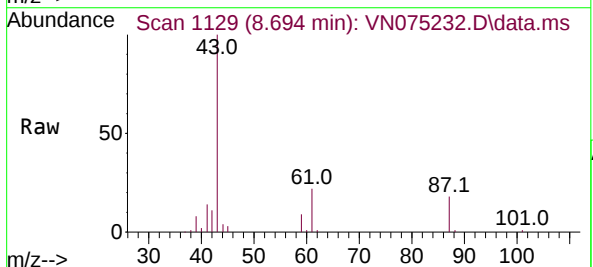
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

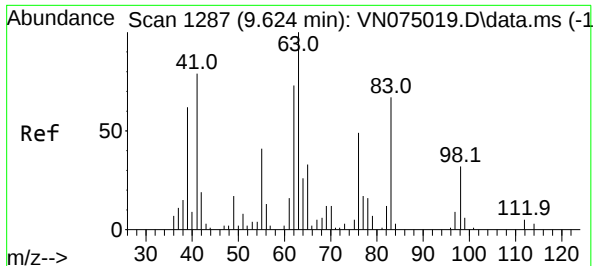
Tgt Ion: 62 Resp: 514
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2



#43
Isopropyl Acetate
Concen: 25.397 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 43 Resp: 77522
Ion Ratio Lower Upper
43 100
61 22.7 22.4 33.6
87 17.2 12.5 18.7





#45

1,2-Dichloropropane

Concen: 0.859 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

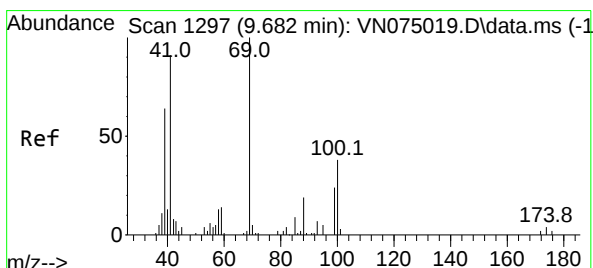
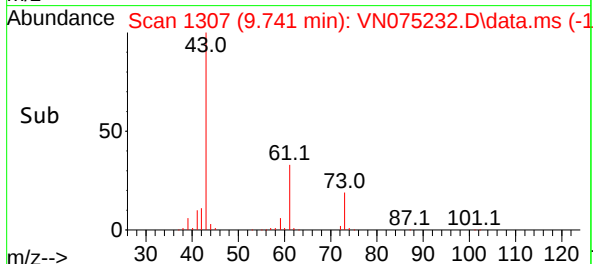
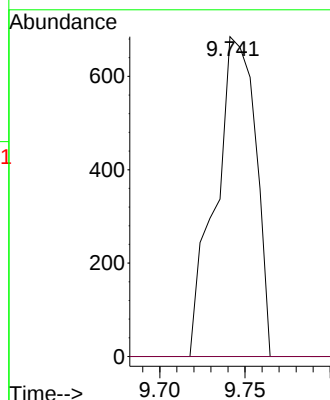
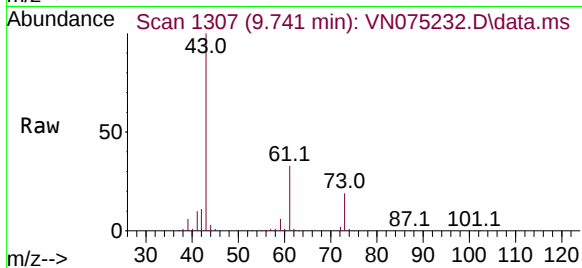
PB148933TB

Tgt Ion: 63 Resp: 1123

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.705 ug/l

RT: 9.665 min Scan# 1294

Delta R.T. -0.017 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

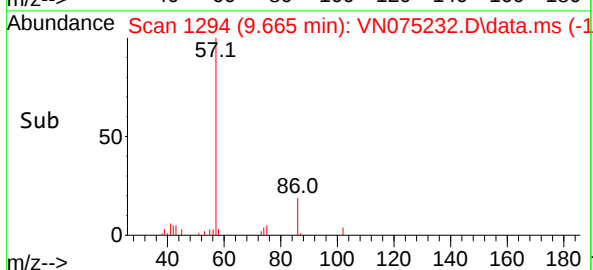
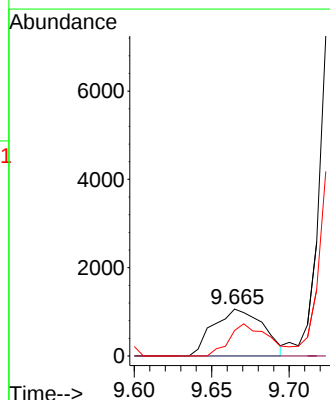
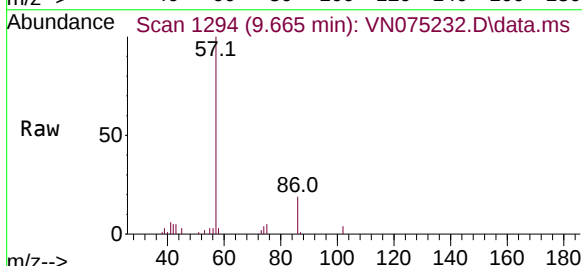
Tgt Ion: 41 Resp: 2387

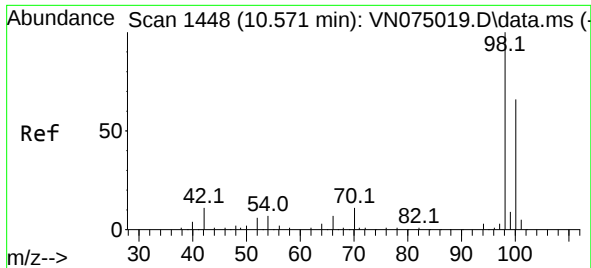
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 54.3 56.2 84.2#

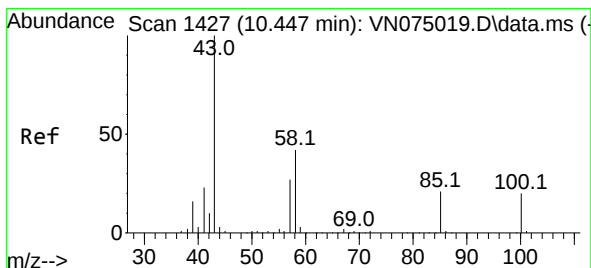
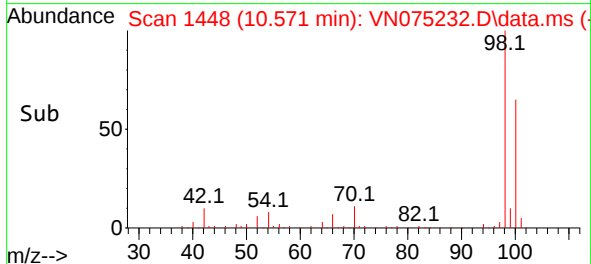
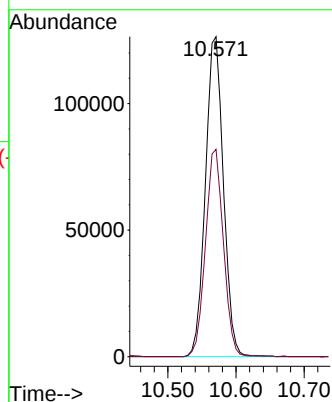
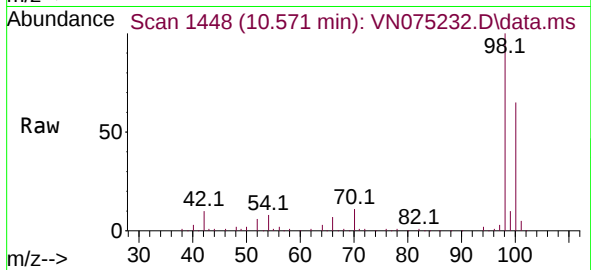




#50
Toluene-d8
Concen: 51.648 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

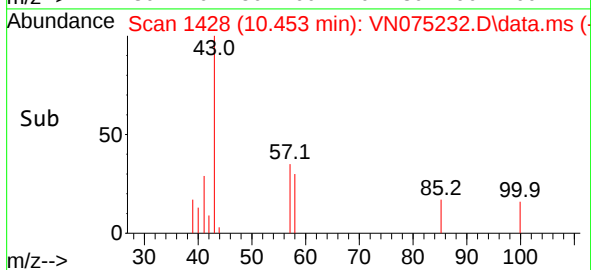
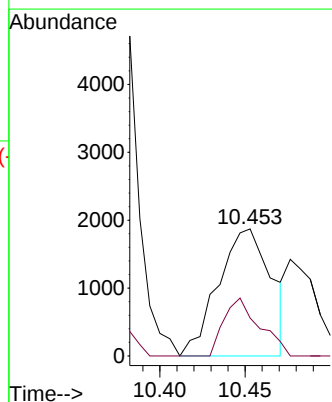
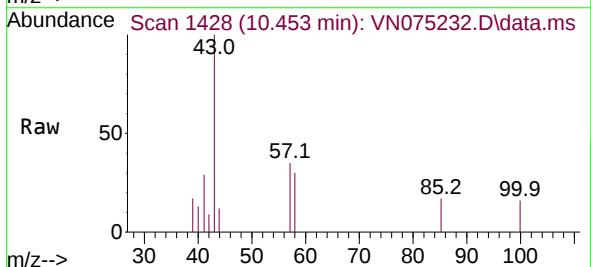
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

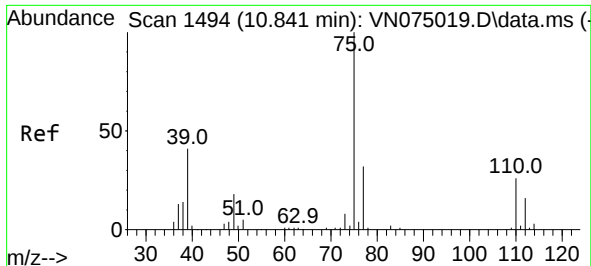
Tgt Ion: 98 Resp: 232244
Ion Ratio Lower Upper
98 100
100 64.8 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 2.048 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 43 Resp: 4034
Ion Ratio Lower Upper
43 100
58 30.9 33.6 50.4#

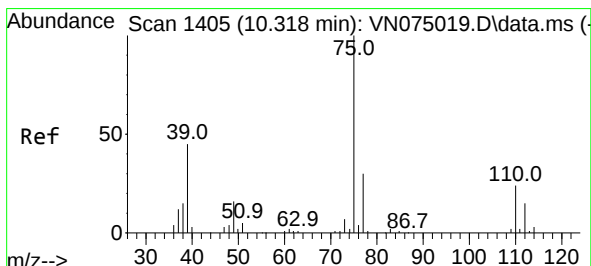
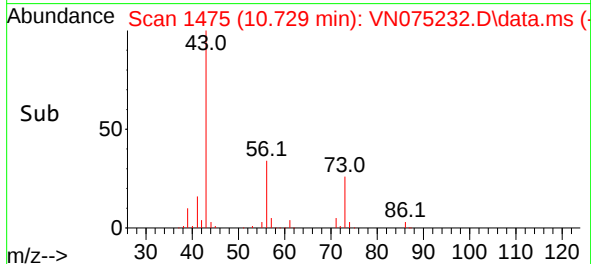
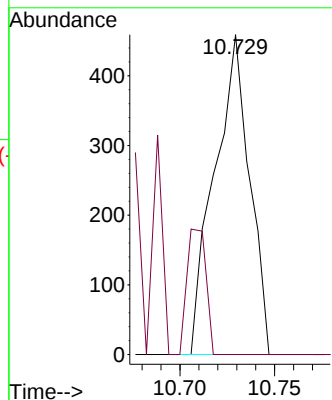
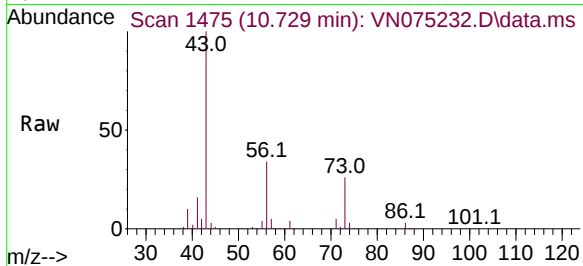




#53
 t-1,3-Dichloropropene
 Concen: 0.283 ug/l
 RT: 10.729 min Scan# 1412
 Delta R.T. -0.112 min
 Lab File: VN075232.D
 Acq: 10 Nov 2022 14:10

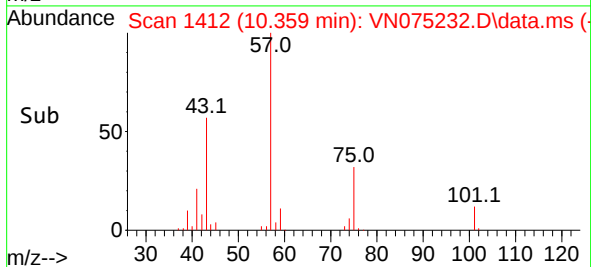
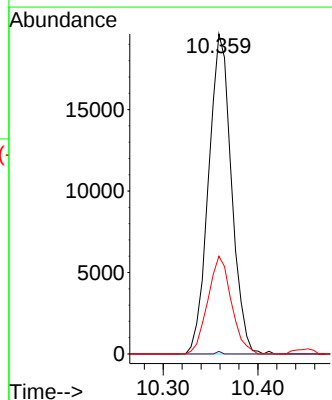
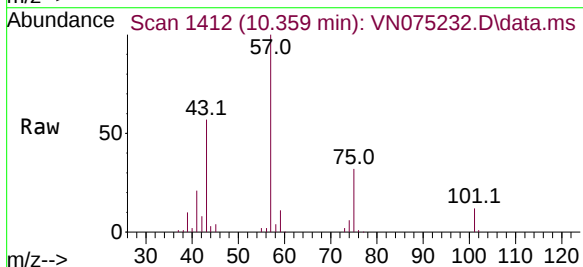
Instrument :
 MSVOA_N
 ClientSampleId :
 PB148933TB

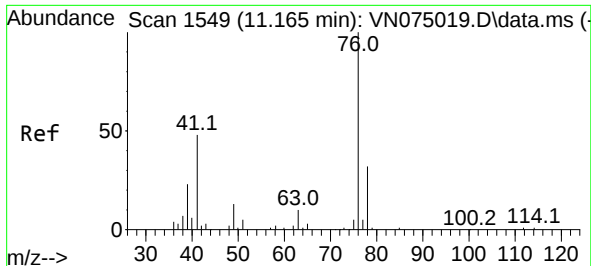
Tgt Ion: 75 Resp: 590
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#



#54
 cis-1,3-Dichloropropene
 Concen: 14.929 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.041 min
 Lab File: VN075232.D
 Acq: 10 Nov 2022 14:10

Tgt Ion: 75 Resp: 32969
 Ion Ratio Lower Upper
 75 100
 77 0.8 23.7 35.5#
 39 30.5 35.8 53.6#





#57

1,3-Dichloropropane

Concen: 1.660 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

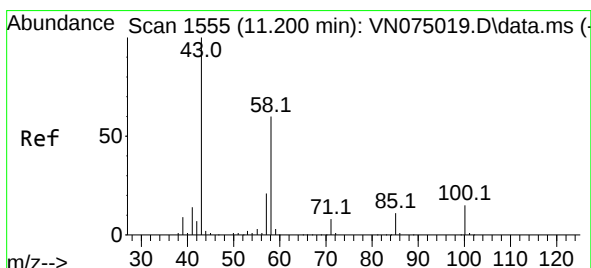
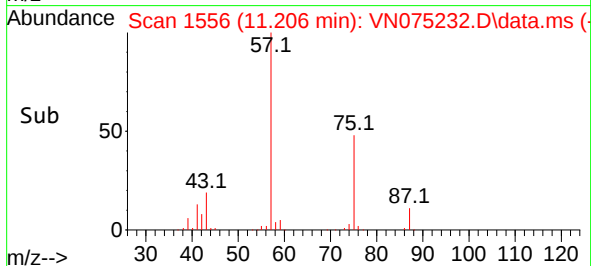
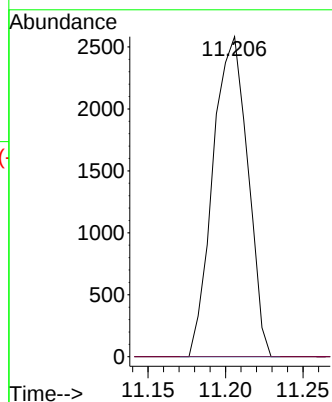
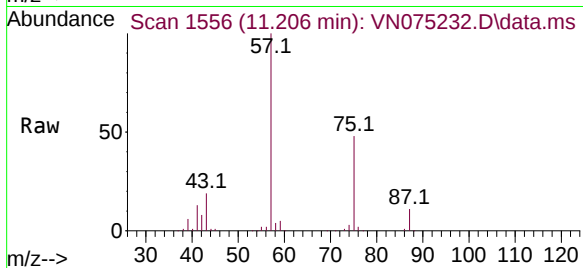
PB148933TB

Tgt Ion: 76 Resp: 4025

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 46.114 ug/l

RT: 11.176 min Scan# 1551

Delta R.T. -0.024 min

Lab File: VN075232.D

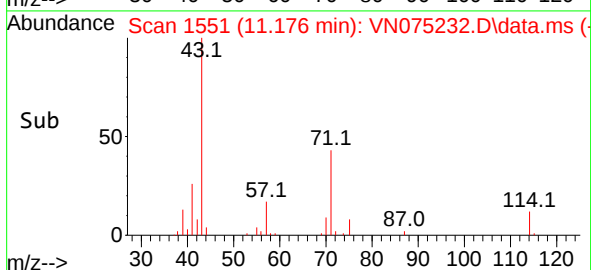
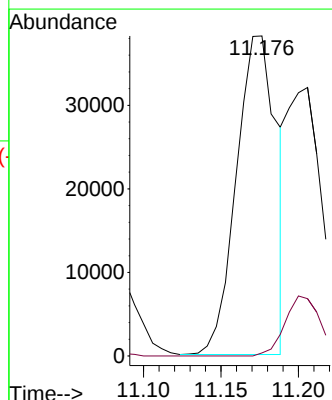
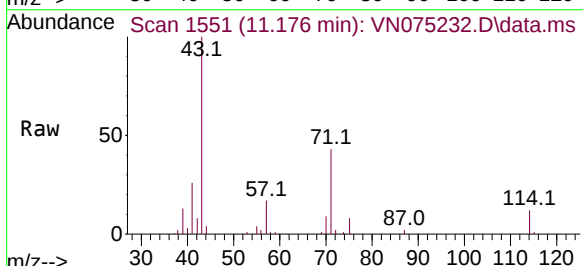
Acq: 10 Nov 2022 14:10

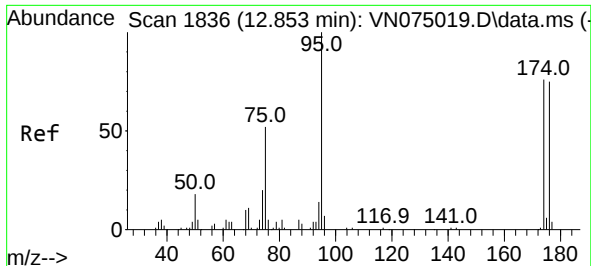
Tgt Ion: 43 Resp: 68938

Ion Ratio Lower Upper

43 100

58 0.0 29.6 88.8#





#62

4-Bromofluorobenzene

Concen: 51.220 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. -0.006 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

PB148933TB

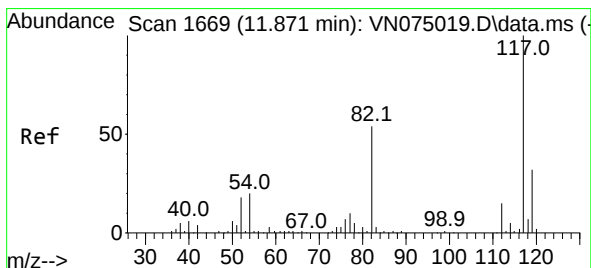
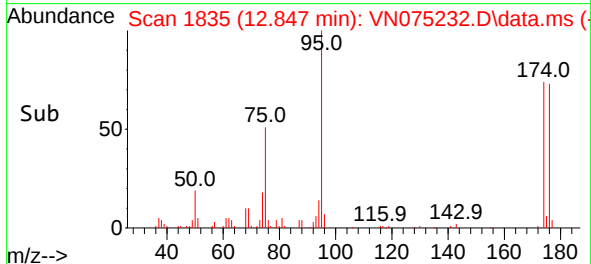
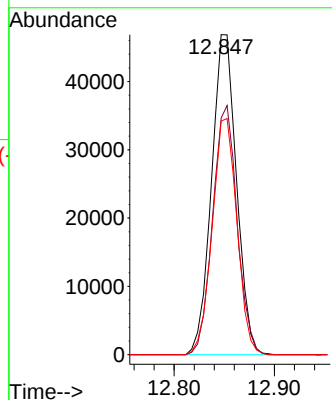
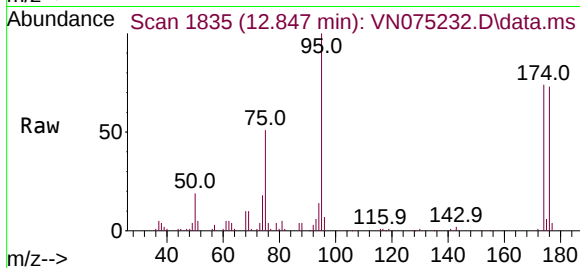
Tgt Ion: 95 Resp: 80906

Ion Ratio Lower Upper

95 100

174 76.2 0.0 147.4

176 72.9 0.0 142.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1668

Delta R.T. -0.006 min

Lab File: VN075232.D

Acq: 10 Nov 2022 14:10

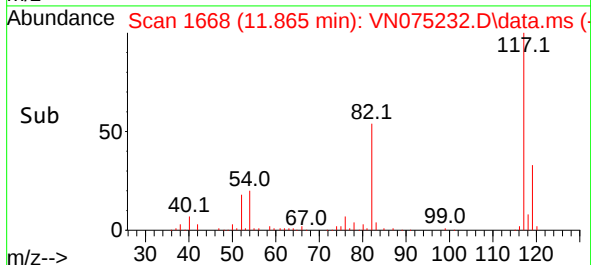
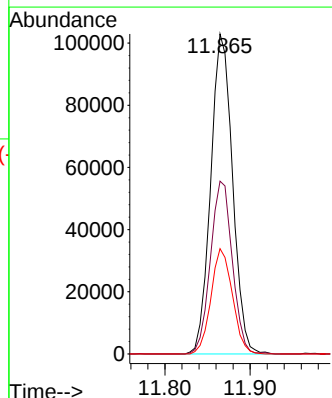
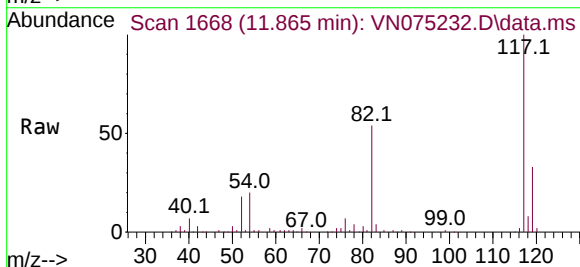
Tgt Ion: 117 Resp: 183002

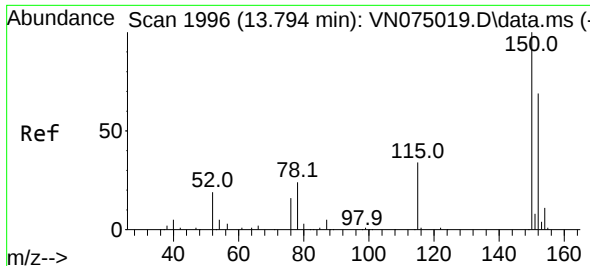
Ion Ratio Lower Upper

117 100

82 54.0 43.1 64.7

119 32.9 25.5 38.3

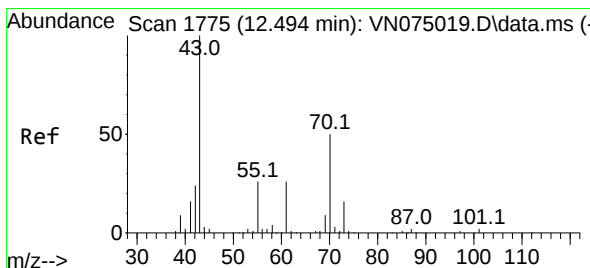
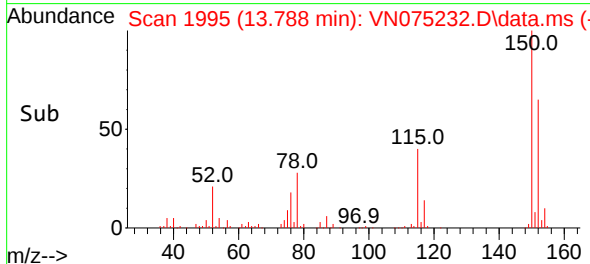
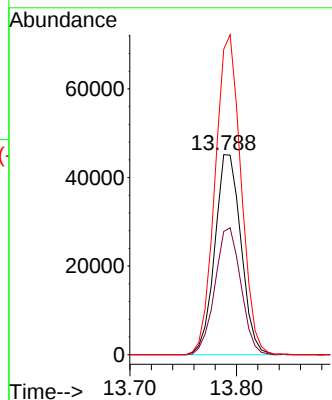
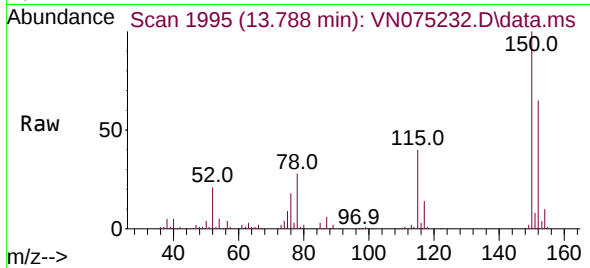




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

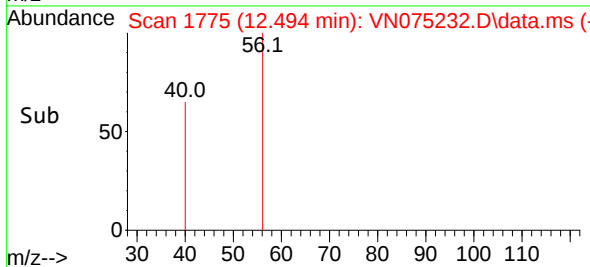
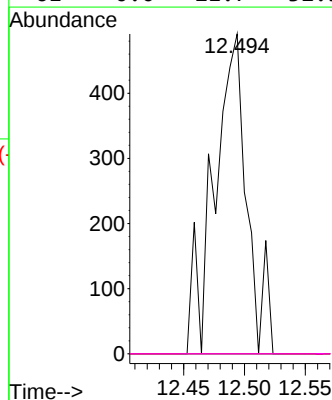
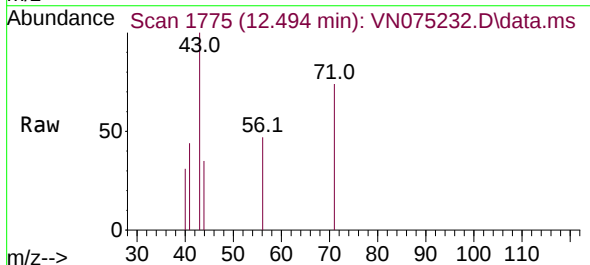
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

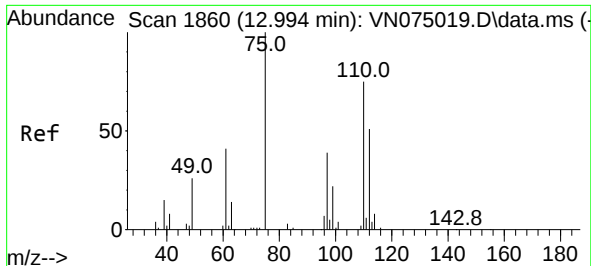
Tgt Ion:152 Resp: 76936
Ion Ratio Lower Upper
152 100
115 62.9 30.2 90.6
150 158.2 0.0 348.4



#74
N-ethyl acetate
Concen: 0.407 ug/l
RT: 12.494 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 43 Resp: 930
Ion Ratio Lower Upper
43 100
70 0.0 39.8 59.8#
55 0.0 19.9 29.9#
61 0.0 21.7 32.5#

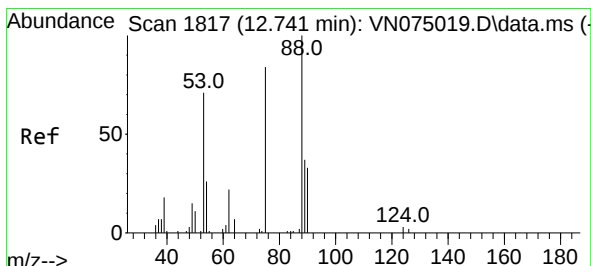
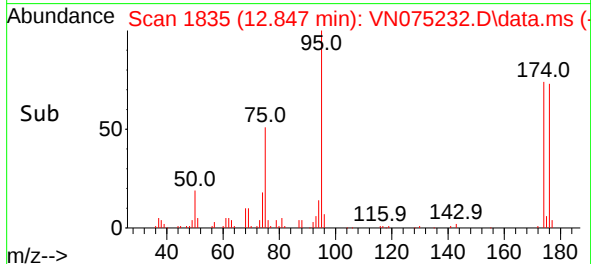
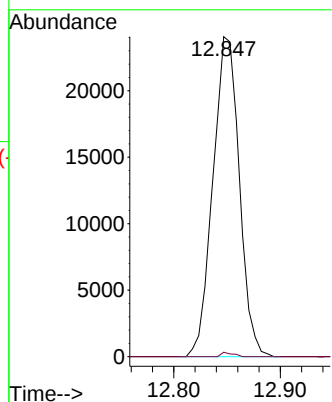
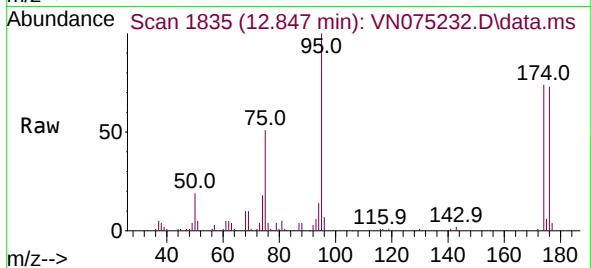




#76
1,2,3-Trichloropropane
Concen: 25.361 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

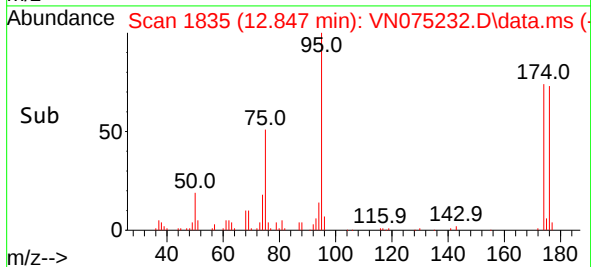
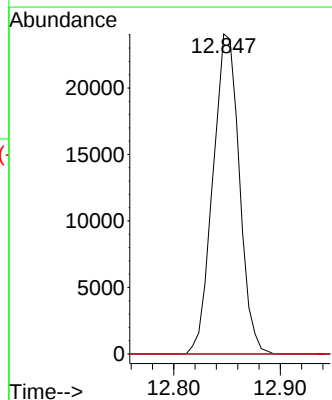
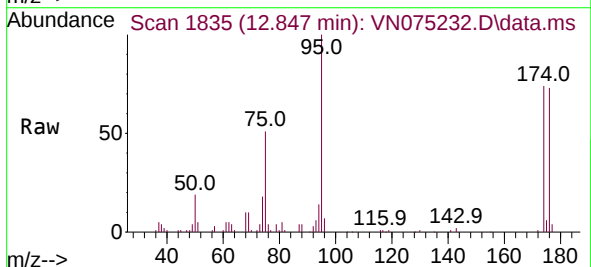
Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

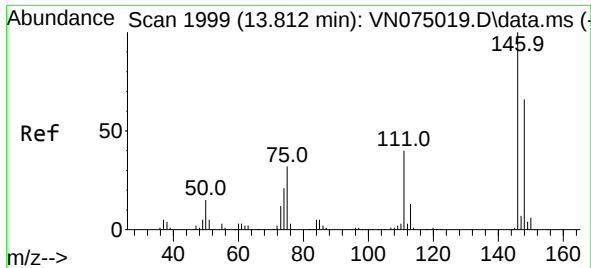
Tgt Ion: 75 Resp: 41428
Ion Ratio Lower Upper
75 100
77 0.6 75.6 226.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.100 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.106 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion: 75 Resp: 41428
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#

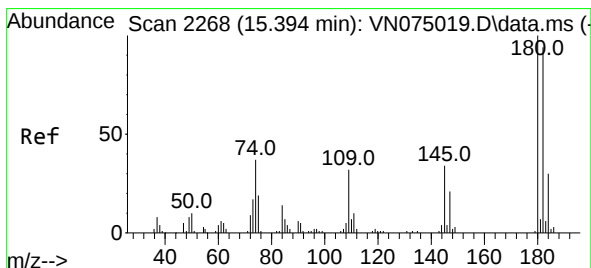
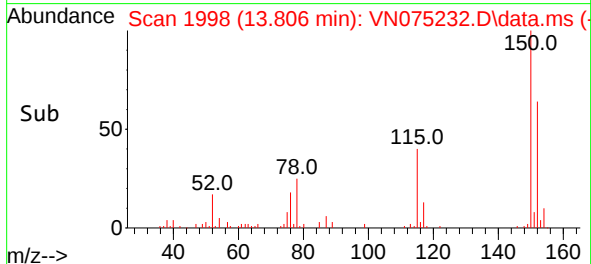
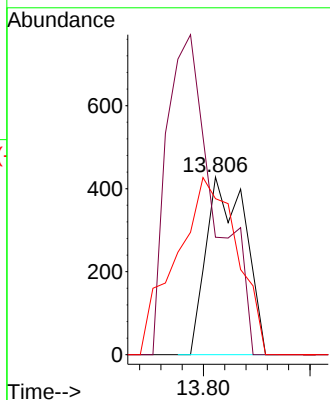
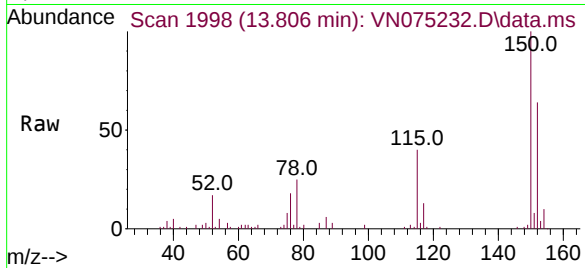




#88
 1,4-Dichlorobenzene
 Concen: 0.208 ug/l
 RT: 13.806 min Scan# 1998
 Delta R.T. -0.006 min
 Lab File: VN075232.D
 Acq: 10 Nov 2022 14:10

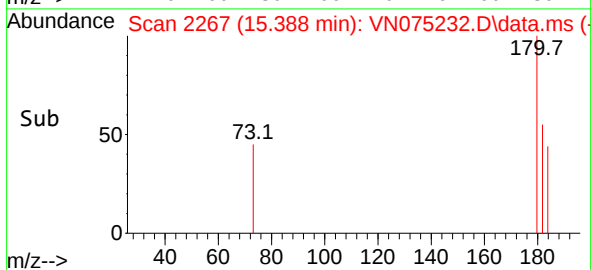
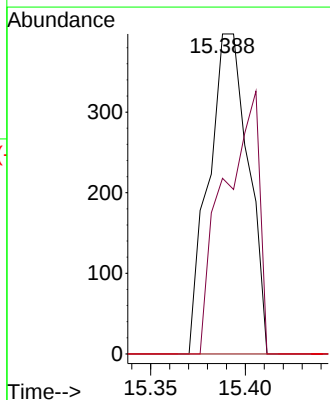
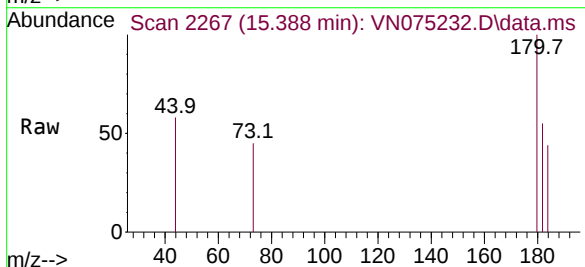
Instrument :
 MSVOA_N
 ClientSampleId :
 PB148933TB

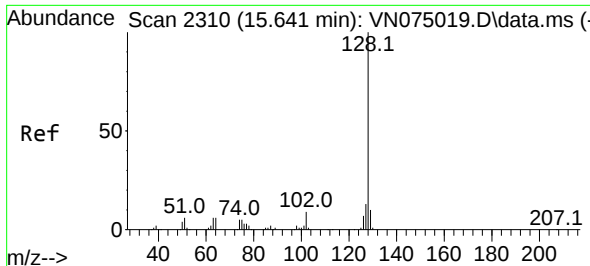
Tgt Ion:146 Resp: 547
 Ion Ratio Lower Upper
 146 100
 111 220.1 20.1 60.3#
 148 155.8 31.9 95.7#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.509 ug/l
 RT: 15.388 min Scan# 2267
 Delta R.T. -0.006 min
 Lab File: VN075232.D
 Acq: 10 Nov 2022 14:10

Tgt Ion:180 Resp: 580
 Ion Ratio Lower Upper
 180 100
 182 72.9 47.8 143.4
 145 0.0 16.8 50.3#

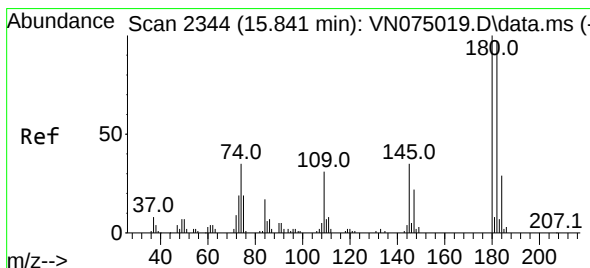
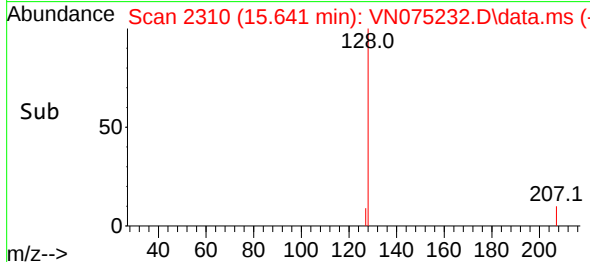
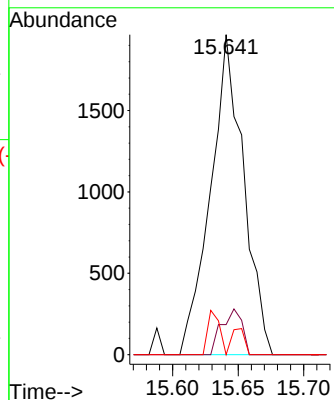
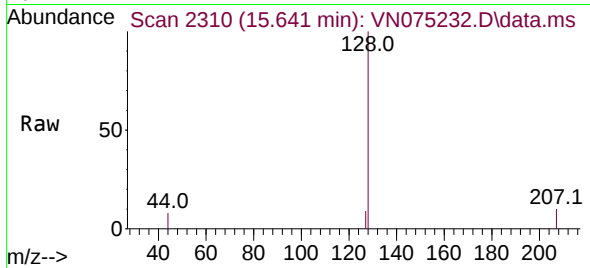




#95
Naphthalene
Concen: 0.785 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Instrument :
MSVOA_N
ClientSampleId :
PB148933TB

Tgt Ion:128 Resp: 3440
Ion Ratio Lower Upper
128 100
127 8.8 10.4 15.6#
129 3.2 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.543 ug/l
RT: 15.841 min Scan# 2344
Delta R.T. -0.000 min
Lab File: VN075232.D
Acq: 10 Nov 2022 14:10

Tgt Ion:180 Resp: 615
Ion Ratio Lower Upper
180 100
182 95.8 47.3 141.8
145 13.8 17.6 52.9#

