

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072122\
 Data File : VN073561.D
 Acq On : 21 Jul 2022 17:34
 Operator : JC\MD
 Sample : PB146347TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146347TB

Quant Time: Jul 22 08:01:35 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

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

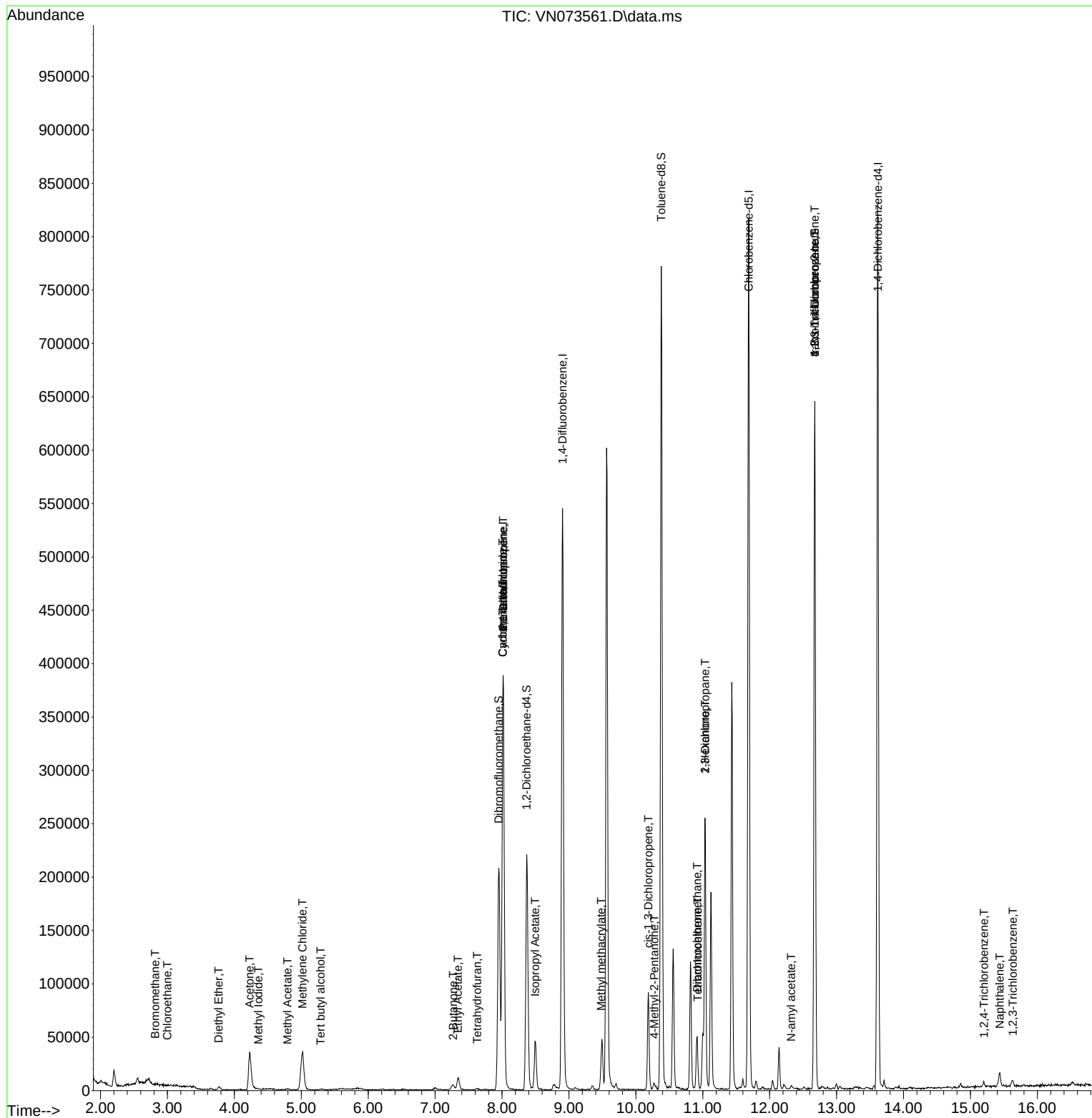
Internal Standards						
1) Pentafluorobenzene	8.016	168	299020	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	484781	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	464149	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	218702	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	176489	40.885	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	81.780%		
35) Dibromofluoromethane	7.951	113	155871	48.327	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.660%		
50) Toluene-d8	10.381	98	519864	45.382	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.760%		
62) 4-Bromofluorobenzene	12.675	95	219505	49.863	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.720%		
Target Compounds					Qvalue	
5) Bromomethane	2.816	94	486	0.285	ug/l #	75
6) Chloroethane	2.999	64	509	0.240	ug/l #	65
8) Diethyl Ether	3.763	74	753	0.297	ug/l #	1
10) Methyl Iodide	4.357	142	472	3.822	ug/l #	44
11) Tert butyl alcohol	5.287	59	1620	1.549	ug/l #	72
16) Acetone	4.228	43	64922	26.794	ug/l	90
18) Methyl Acetate	4.793	43	2652	0.391	ug/l #	58
20) Methylene Chloride	5.016	84	27868	6.544	ug/l #	87
25) 2-Butanone	7.269	43	6711	1.740	ug/l #	85
29) Tetrahydrofuran	7.628	42	840	0.318	ug/l #	81
31) Cyclohexane	8.010	56	7089	1.003	ug/l #	25
36) 1,1-Dichloropropene	8.016	75	23567	4.749	ug/l #	49
37) Ethyl Acetate	7.340	43	18368	2.449	ug/l #	95
38) Carbon Tetrachloride	8.010	117	30116	5.868	ug/l #	16
43) Isopropyl Acetate	8.492	43	53381	4.953	ug/l #	87
48) Methyl methacrylate	9.481	41	4585	0.919	ug/l #	37
51) 4-Methyl-2-Pentanone	10.275	43	3205	0.469	ug/l #	86
54) cis-1,3-Dichloropropene	10.187	75	16359	2.681	ug/l #	66
57) 1,3-Dichloropropane	11.034	76	2661	0.398	ug/l #	42
59) 2-Hexanone	11.034	43	42003	8.063	ug/l #	52
60) Dibromochloromethane	10.916	129	2590	0.697	ug/l #	11
64) Tetrachloroethene	10.922	164	2835	0.748	ug/l #	85
74) N-amyl acetate	12.322	43	2713	0.287	ug/l #	48
76) 1,2,3-Trichloropropane	12.675	75	116567	20.384	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.675	75	116567	55.902	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.204	180	1500	0.359	ug/l	78
95) Naphthalene	15.439	128	13495	0.801	ug/l	98
96) 1,2,3-Trichlorobenzene	15.633	180	2478	0.575	ug/l	95

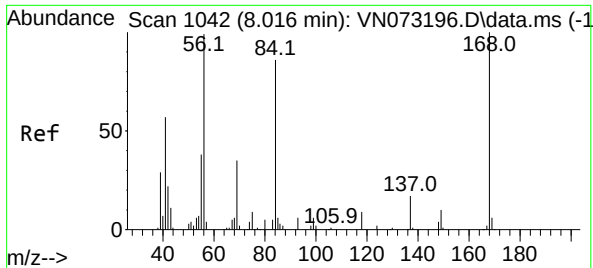
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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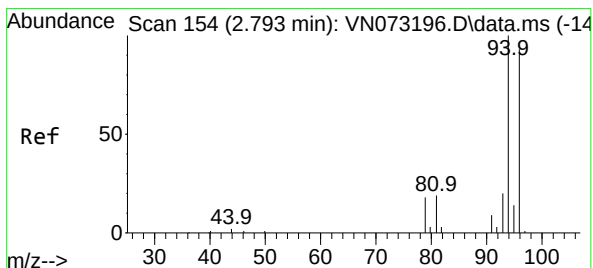
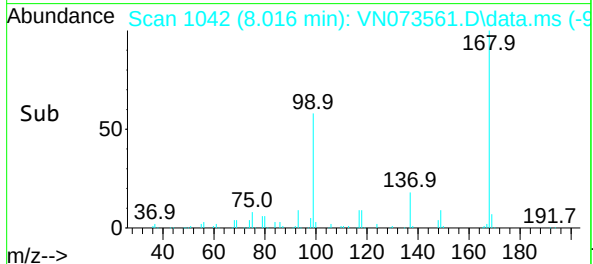
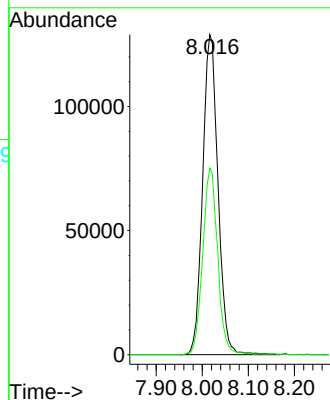
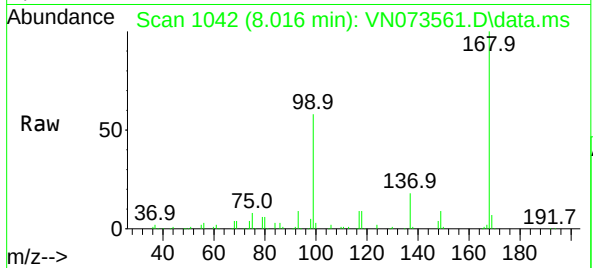




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

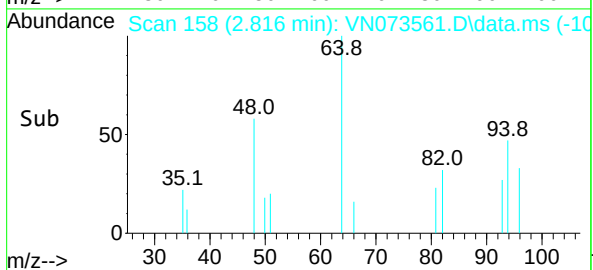
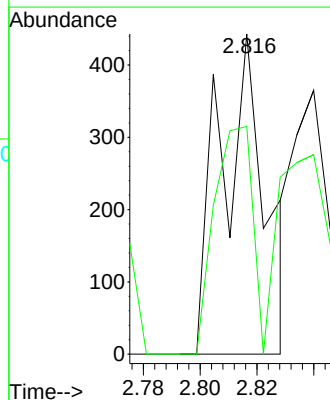
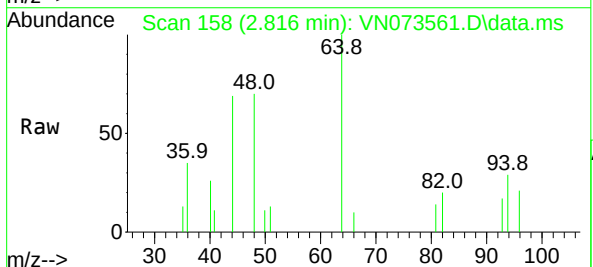
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

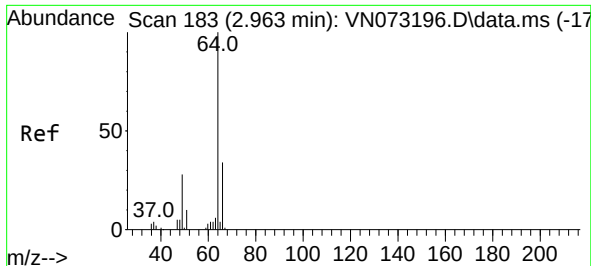
Tgt Ion:168 Resp: 299020
Ion Ratio Lower Upper
168 100
99 58.3 42.3 63.5



#5
Bromomethane
Concen: 0.285 ug/l
RT: 2.816 min Scan# 158
Delta R.T. 0.023 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 94 Resp: 486
Ion Ratio Lower Upper
94 100
96 71.1 76.0 114.0#

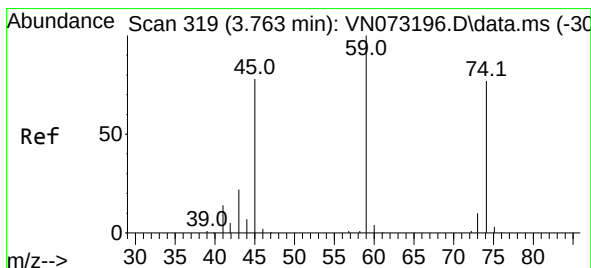
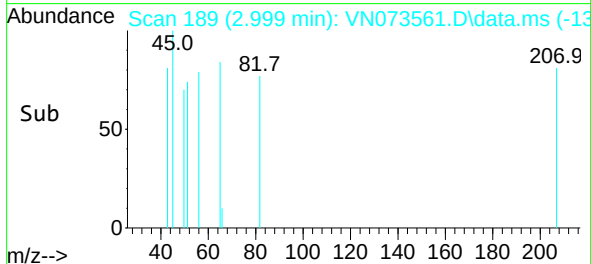
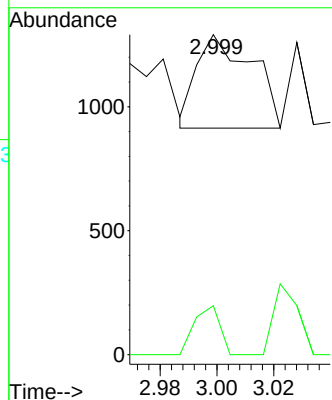
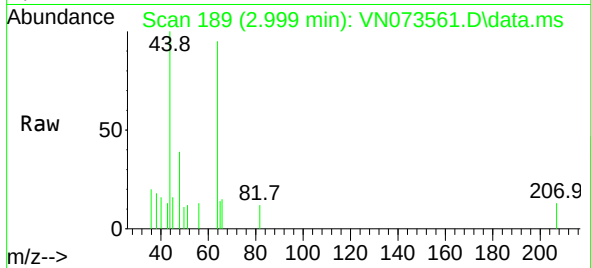




#6
Chloroethane
Concen: 0.240 ug/l
RT: 2.999 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

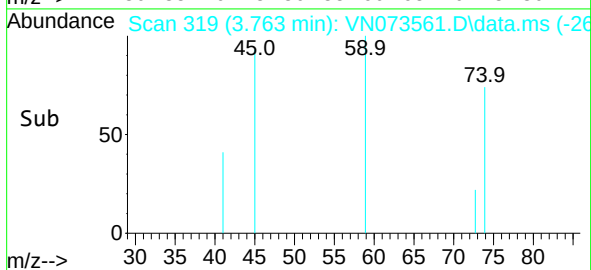
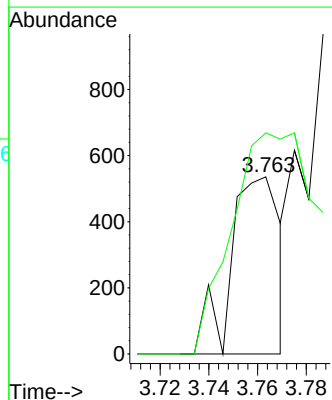
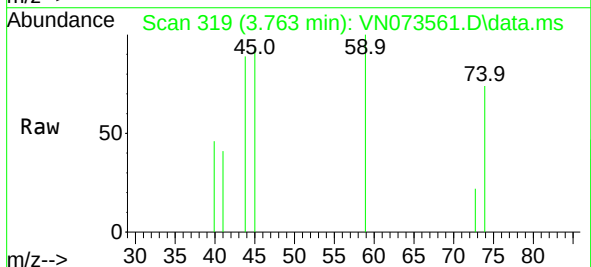
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

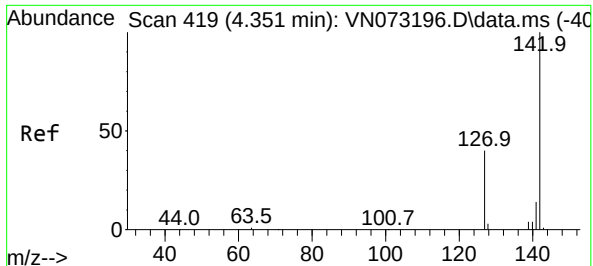
Tgt Ion: 64 Resp: 509
Ion Ratio Lower Upper
64 100
66 52.3 26.2 39.4#



#8
Diethyl Ether
Concen: 0.297 ug/l
RT: 3.763 min Scan# 319
Delta R.T. 0.000 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 74 Resp: 753
Ion Ratio Lower Upper
74 100
45 227.0 42.9 128.5#

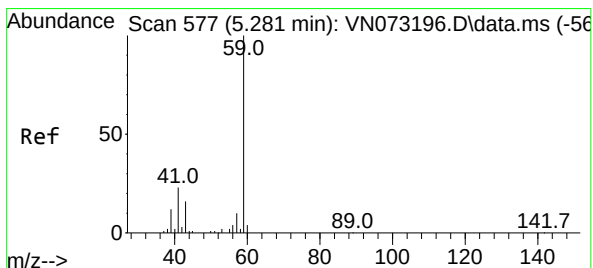
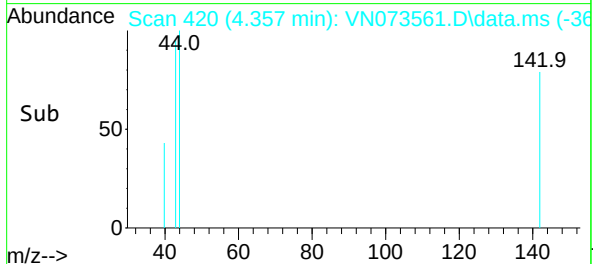
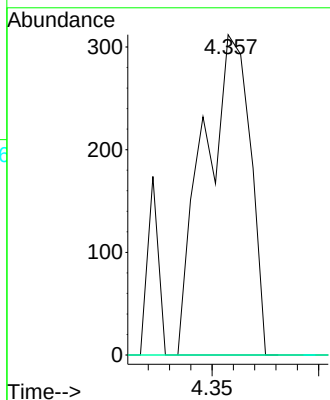
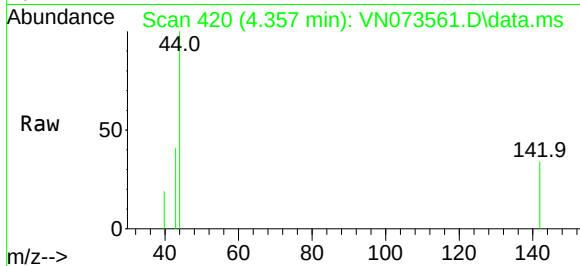




#10
Methyl Iodide
Concen: 3.822 ug/l
RT: 4.357 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

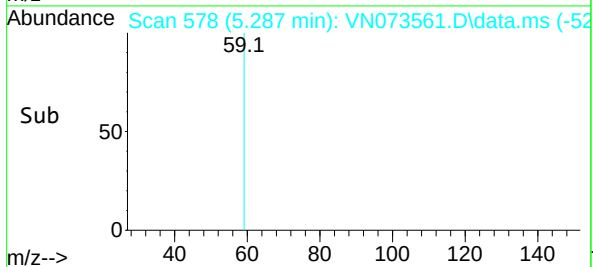
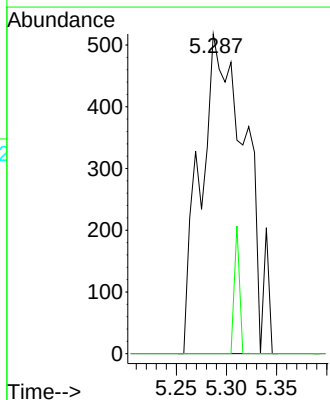
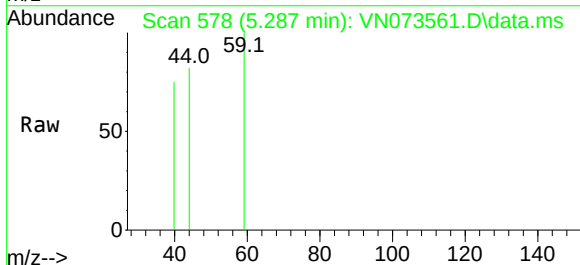
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

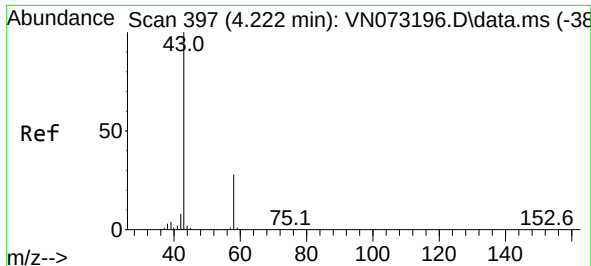
Tgt Ion:142 Resp: 472
Ion Ratio Lower Upper
142 100
127 0.0 31.3 46.9#
141 0.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 1.549 ug/l
RT: 5.287 min Scan# 578
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 59 Resp: 1620
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

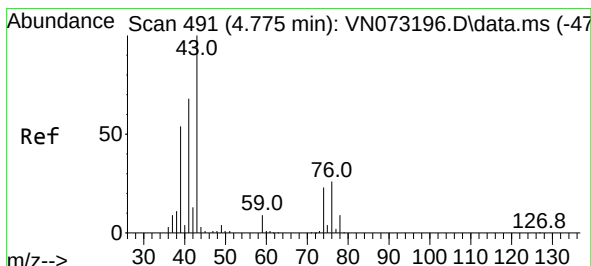
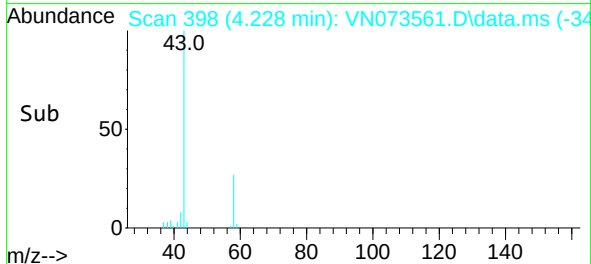
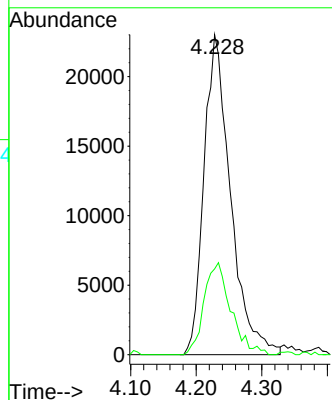
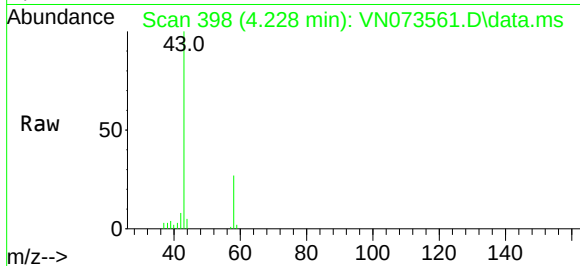




#16
Acetone
Concen: 26.794 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

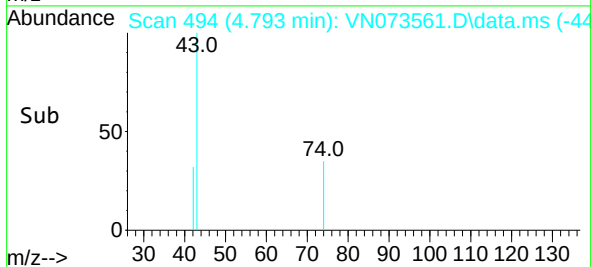
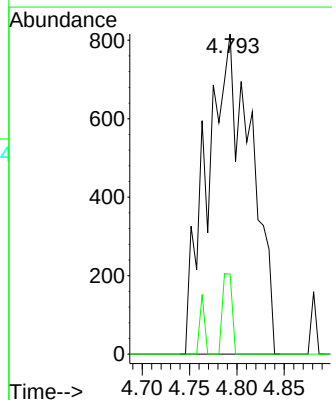
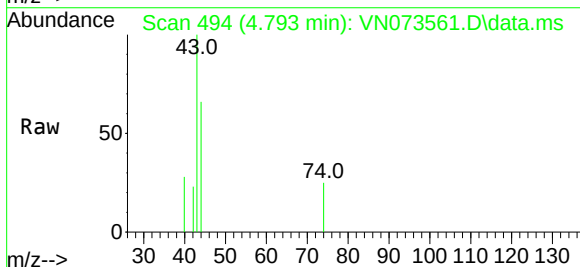
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

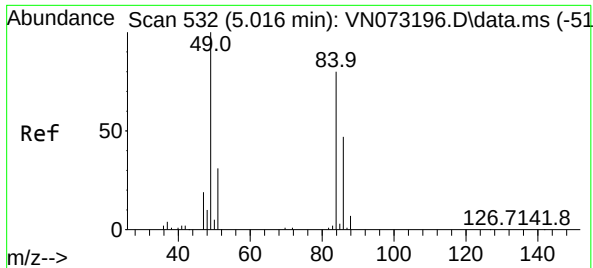
Tgt Ion: 43 Resp: 64922
Ion Ratio Lower Upper
43 100
58 26.8 26.0 39.0



#18
Methyl Acetate
Concen: 0.391 ug/l
RT: 4.793 min Scan# 494
Delta R.T. 0.018 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 43 Resp: 2652
Ion Ratio Lower Upper
43 100
74 5.4 21.6 32.4#

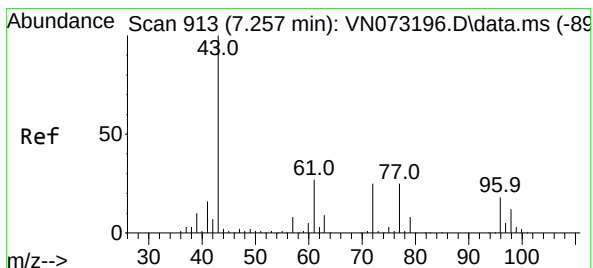
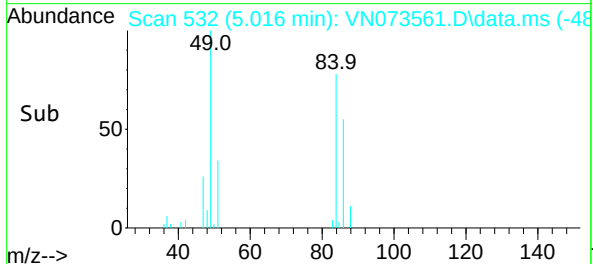
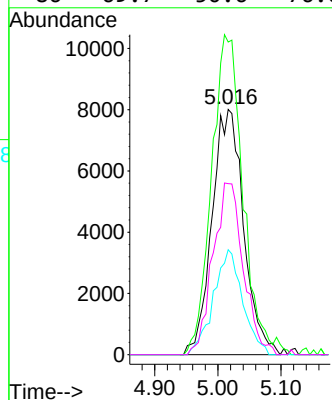
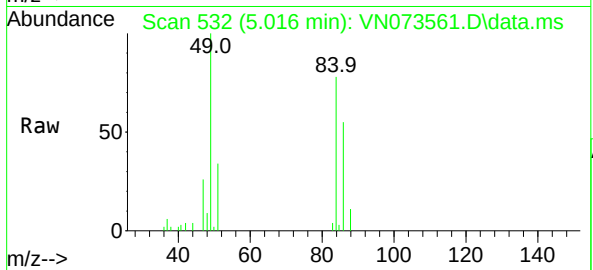




#20
Methylene Chloride
Concen: 6.544 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

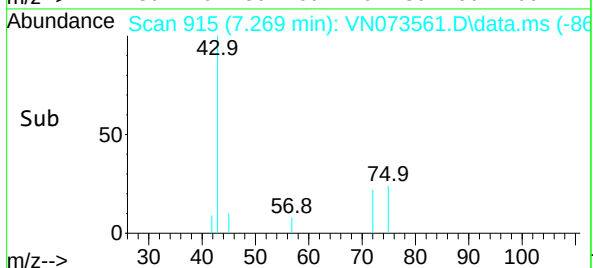
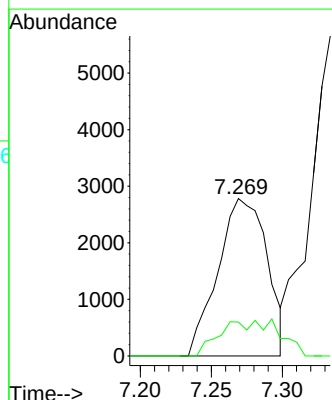
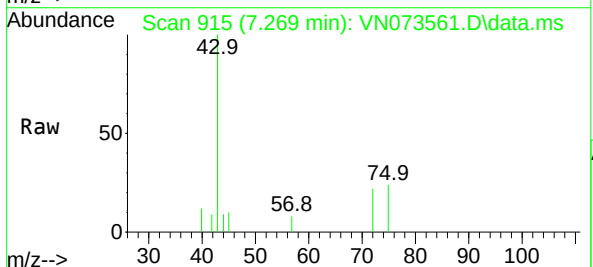
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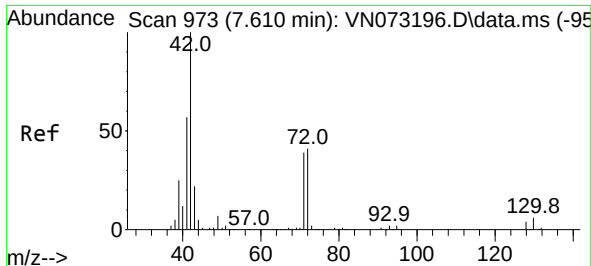
Tgt Ion:	84	Resp:	27868
Ion	Ratio	Lower	Upper
84	100		
49	127.4	88.3	132.5
51	42.8	28.2	42.2#
86	69.7	50.6	76.0



#25
2-Butanone
Concen: 1.740 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion:	43	Resp:	6711
Ion	Ratio	Lower	Upper
43	100		
72	21.6	23.7	35.5#





#29

Tetrahydrofuran

Concen: 0.318 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN073561.D

Acq: 21 Jul 2022 17:34

Instrument :

MSVOA_N

ClientSampleId :

PB146347TB

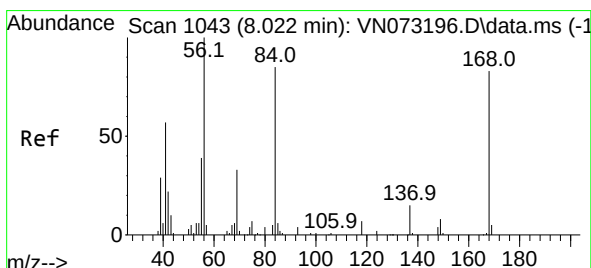
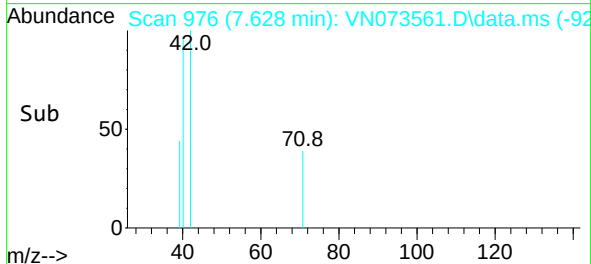
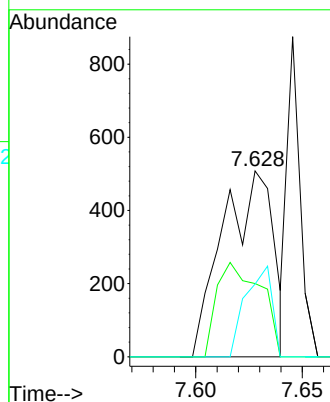
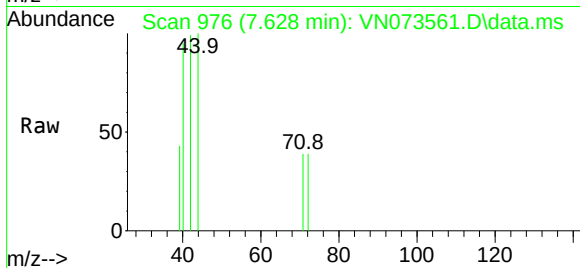
Tgt Ion: 42 Resp: 840

Ion Ratio Lower Upper

42 100

72 43.9 39.7 59.5

71 25.5 36.6 55.0#



#31

Cyclohexane

Concen: 1.003 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.012 min

Lab File: VN073561.D

Acq: 21 Jul 2022 17:34

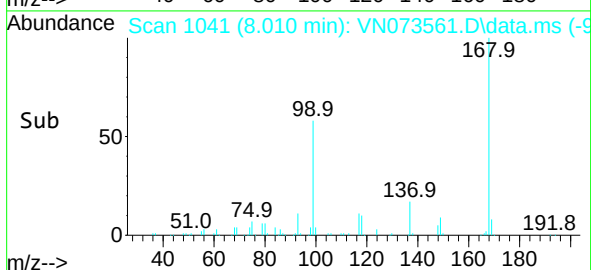
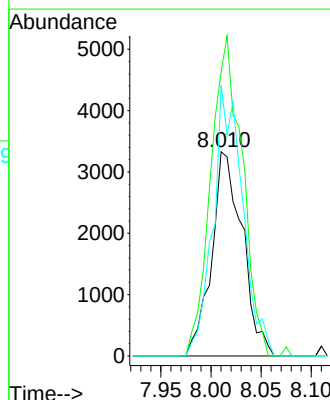
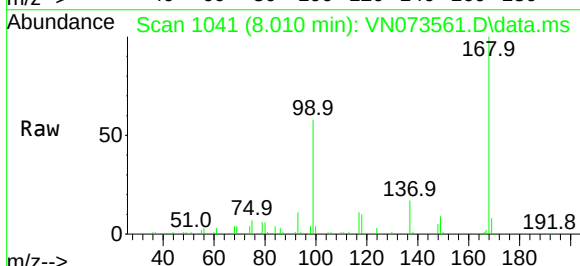
Tgt Ion: 56 Resp: 7089

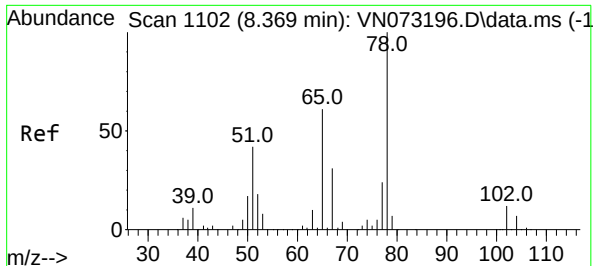
Ion Ratio Lower Upper

56 100

69 139.3 27.8 41.8#

84 132.6 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 40.885 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN073561.D

Acq: 21 Jul 2022 17:34

Instrument :

MSVOA_N

ClientSampleId :

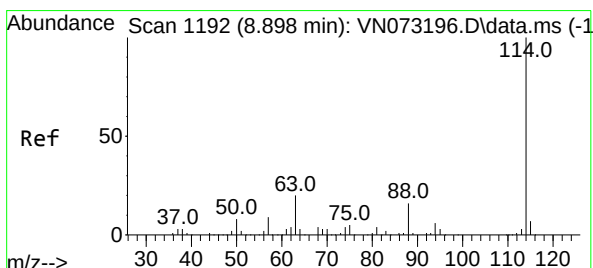
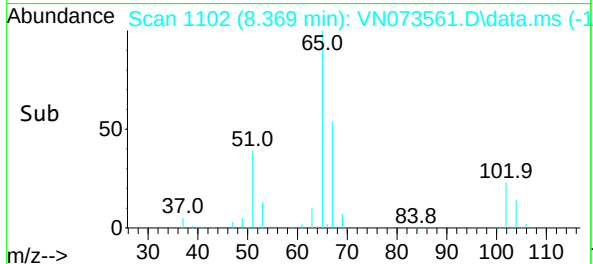
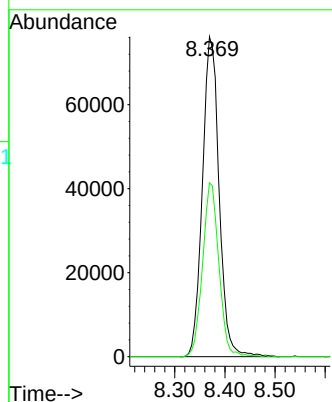
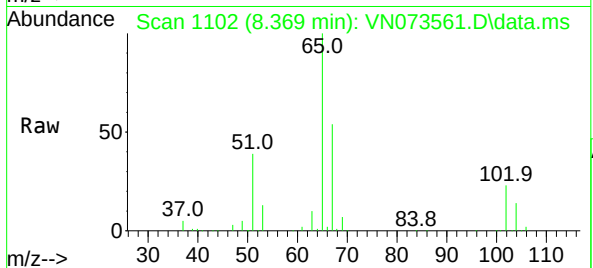
PB146347TB

Tgt Ion: 65 Resp: 176489

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN073561.D

Acq: 21 Jul 2022 17:34

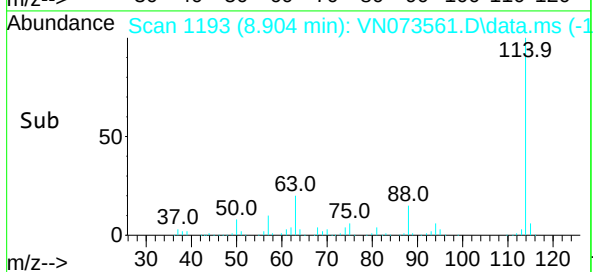
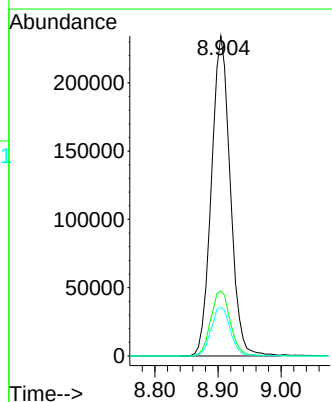
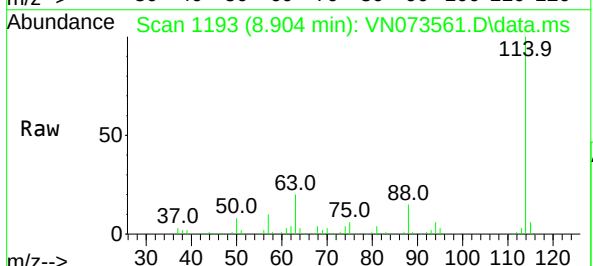
Tgt Ion: 114 Resp: 484781

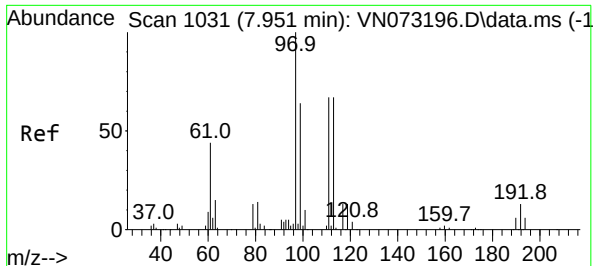
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.327 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073561.D

Acq: 21 Jul 2022 17:34

Instrument :

MSVOA_N

ClientSampleId :

PB146347TB

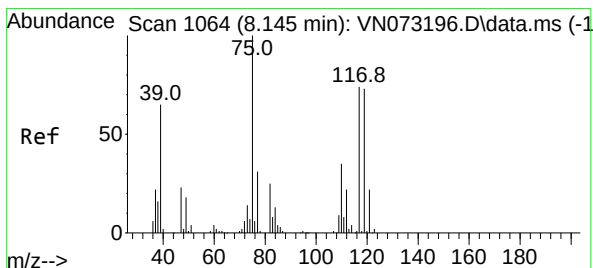
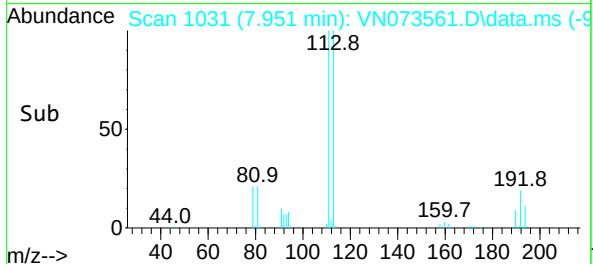
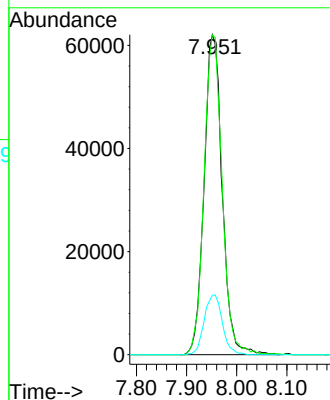
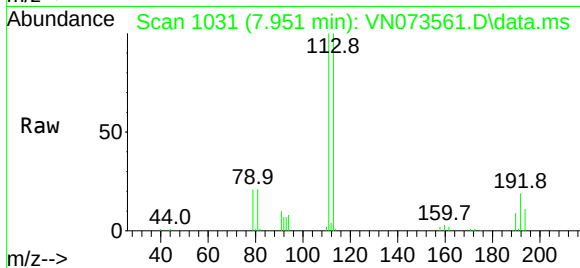
Tgt Ion:113 Resp: 155871

Ion Ratio Lower Upper

113 100

111 99.8 81.4 122.0

192 18.8 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.749 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.129 min

Lab File: VN073561.D

Acq: 21 Jul 2022 17:34

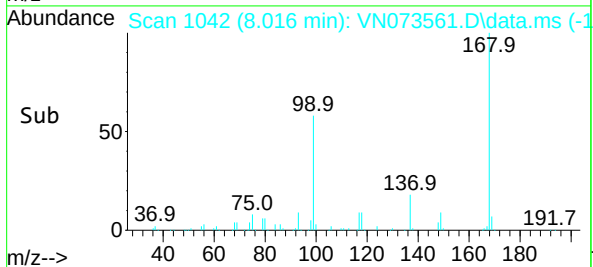
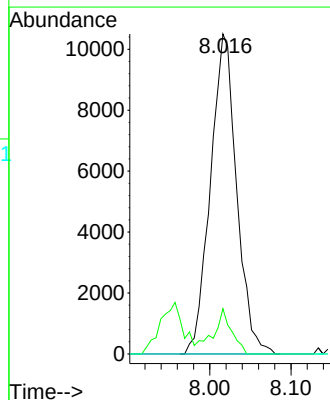
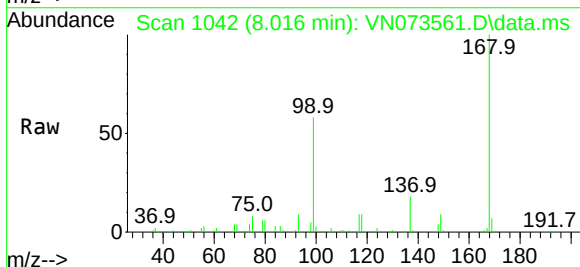
Tgt Ion: 75 Resp: 23567

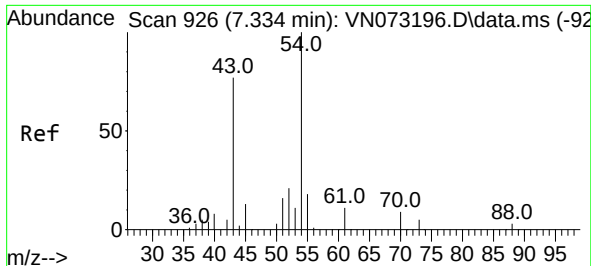
Ion Ratio Lower Upper

75 100

110 8.8 18.3 54.8#

77 0.0 25.1 37.7#

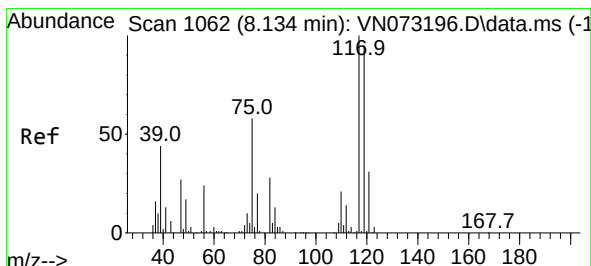
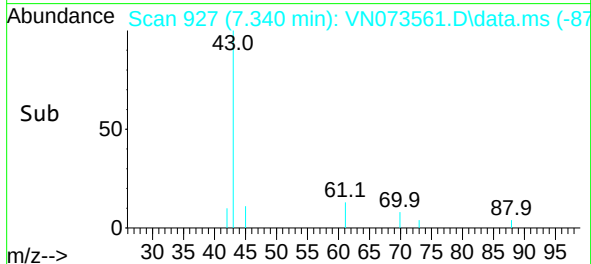
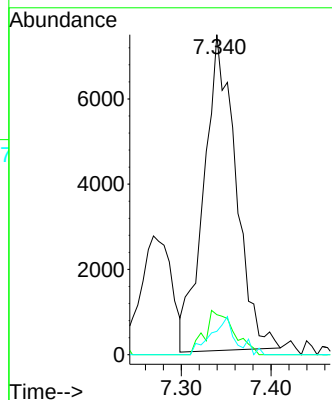
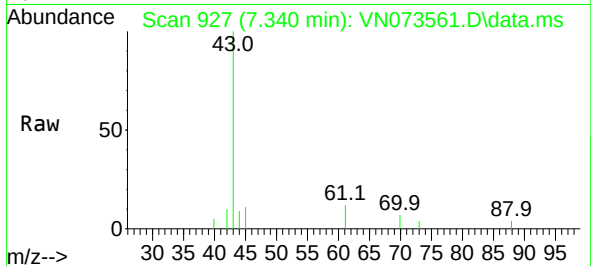




#37
Ethyl Acetate
Concen: 2.449 ug/l
RT: 7.340 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

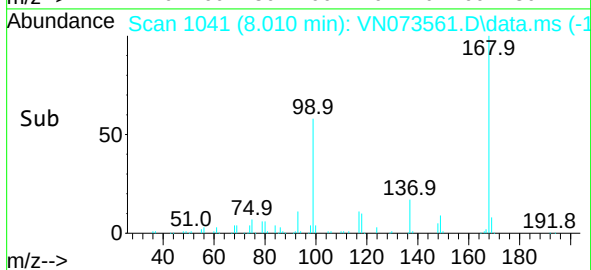
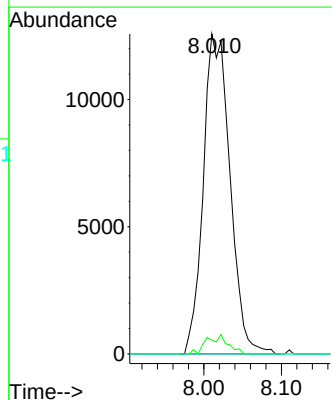
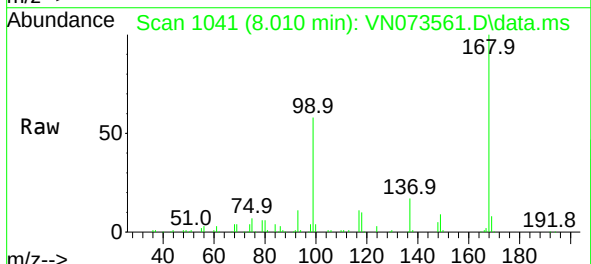
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

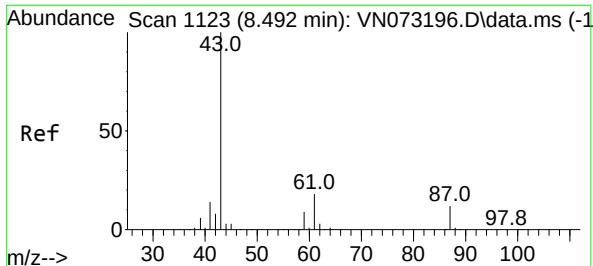
Tgt Ion: 43 Resp: 18368
Ion Ratio Lower Upper
43 100
61 12.6 11.8 17.6
70 9.3 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.868 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.124 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 117 Resp: 30116
Ion Ratio Lower Upper
117 100
119 4.2 75.8 113.8#
121 0.0 24.6 37.0#

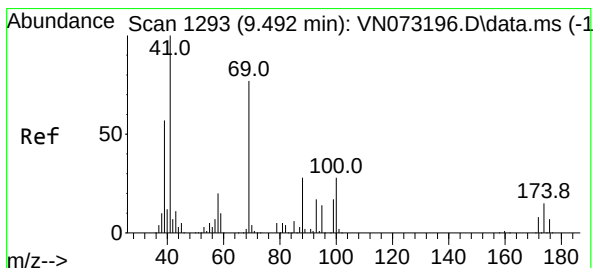
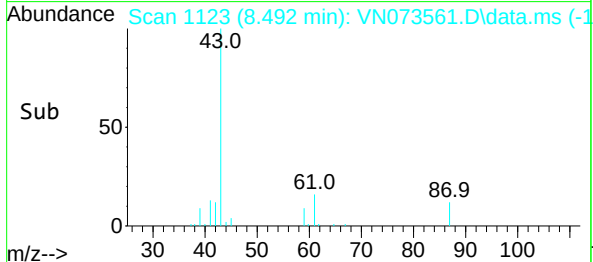
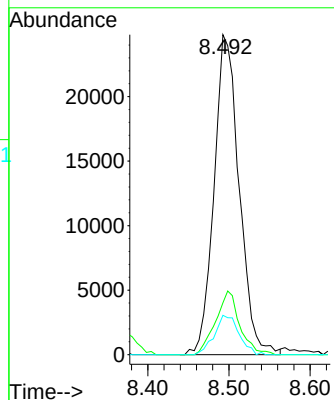
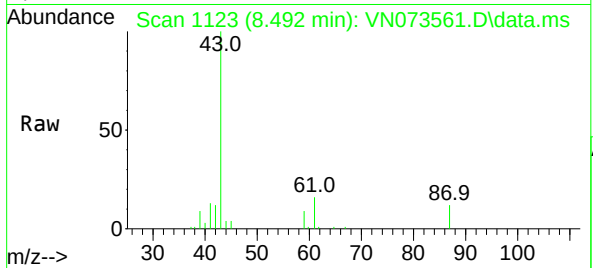




#43
Isopropyl Acetate
Concen: 4.953 ug/l
RT: 8.492 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

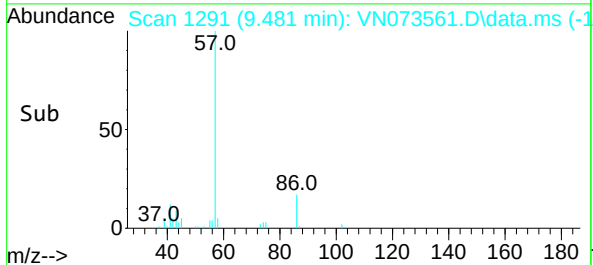
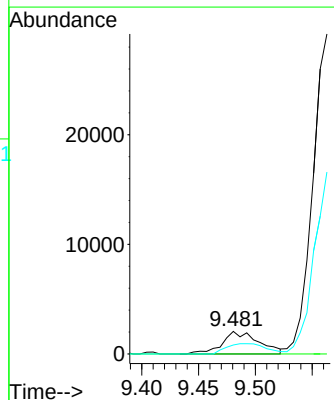
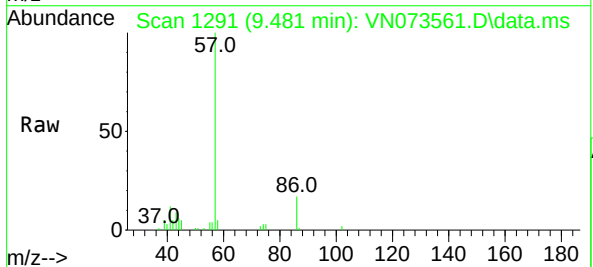
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

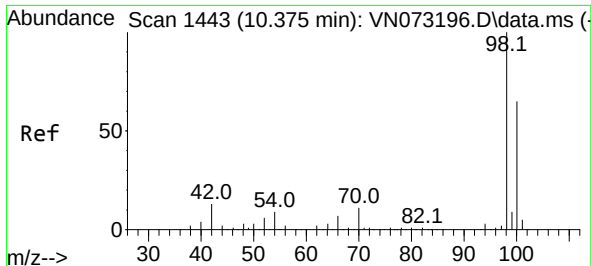
Tgt Ion: 43 Resp: 53381
Ion Ratio Lower Upper
43 100
61 19.1 21.9 32.9#
87 12.1 12.0 18.0



#48
Methyl methacrylate
Concen: 0.919 ug/l
RT: 9.481 min Scan# 1291
Delta R.T. -0.011 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 41 Resp: 4585
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 50.8 45.6 68.4

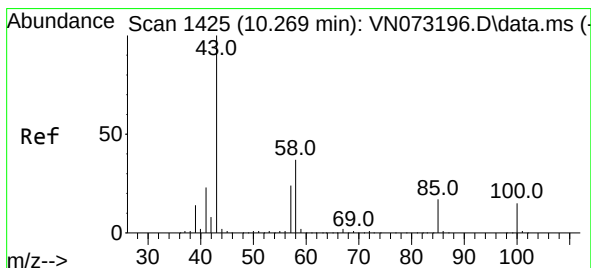
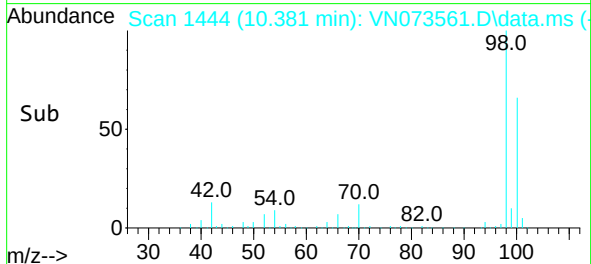
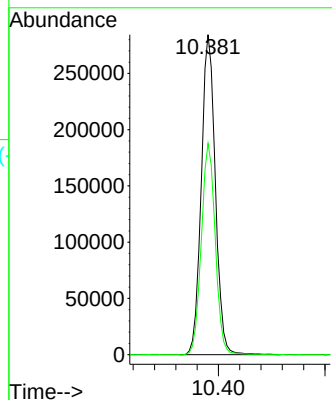
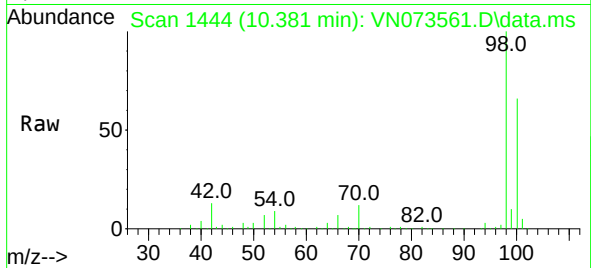




#50
Toluene-d8
Concen: 45.382 ug/l
RT: 10.381 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

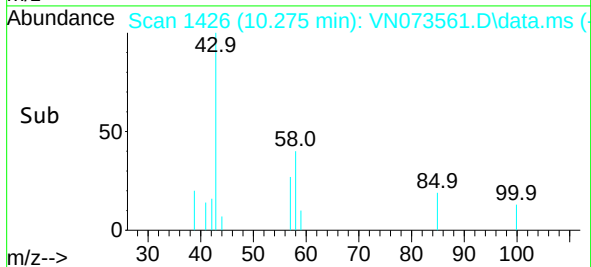
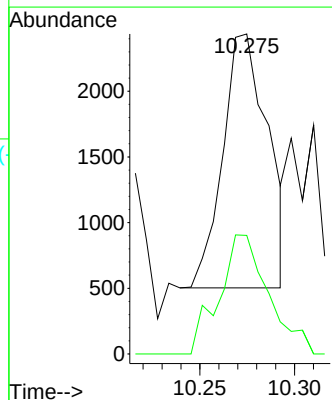
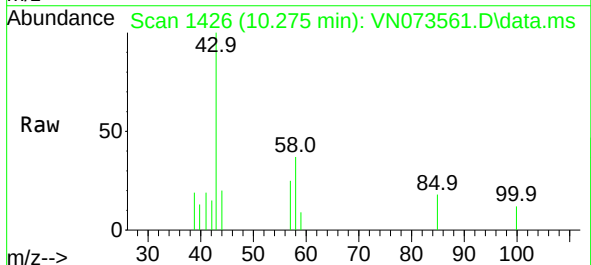
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

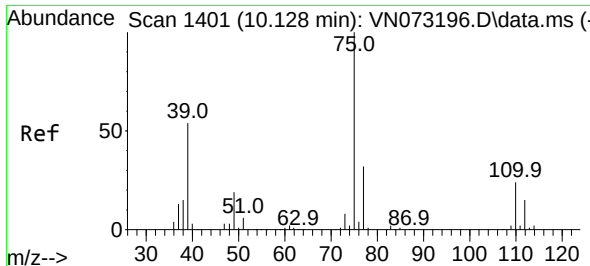
Tgt Ion: 98 Resp: 519864
Ion Ratio Lower Upper
98 100
100 65.5 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.469 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 43 Resp: 3205
Ion Ratio Lower Upper
43 100
58 51.2 34.1 51.1#

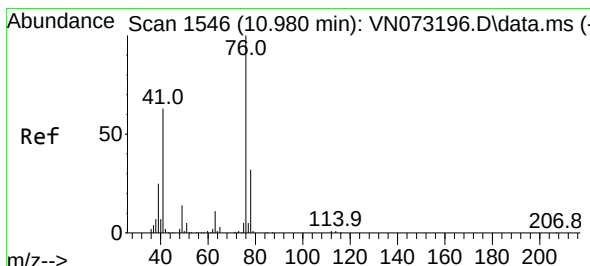
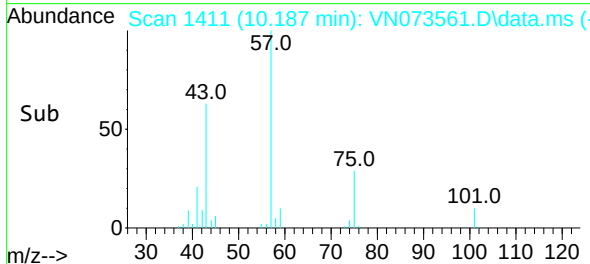
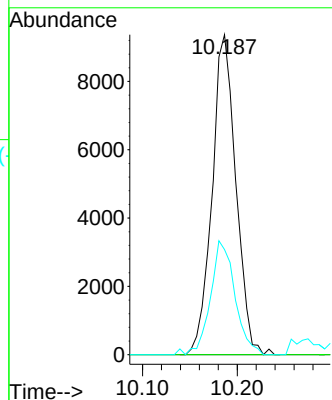
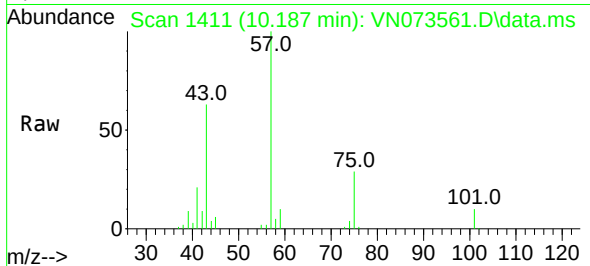




#54
 cis-1,3-Dichloropropene
 Concen: 2.681 ug/l
 RT: 10.187 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN073561.D
 Acq: 21 Jul 2022 17:34

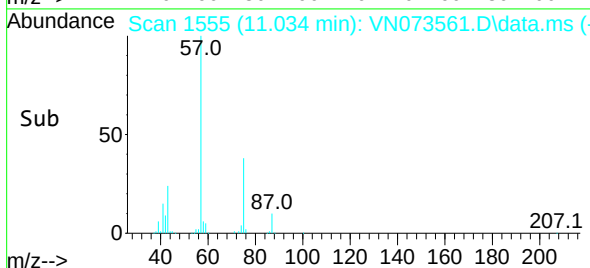
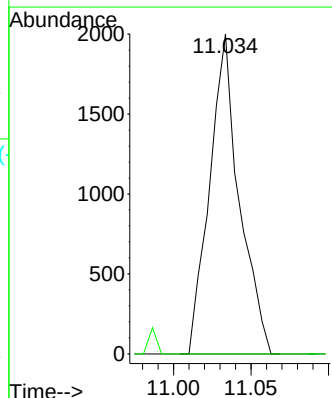
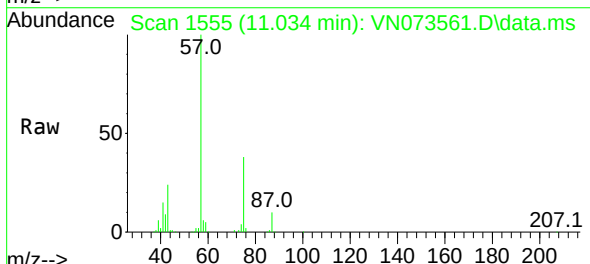
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146347TB

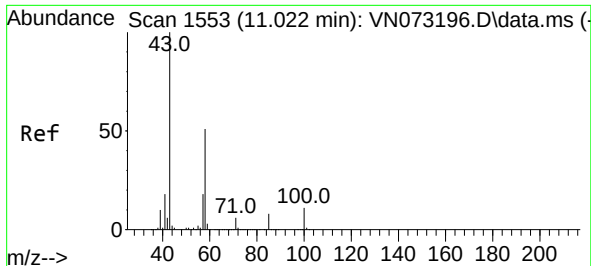
Tgt Ion: 75 Resp: 16359
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 32.8 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 0.398 ug/l
 RT: 11.034 min Scan# 1555
 Delta R.T. 0.053 min
 Lab File: VN073561.D
 Acq: 21 Jul 2022 17:34

Tgt Ion: 76 Resp: 2661
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

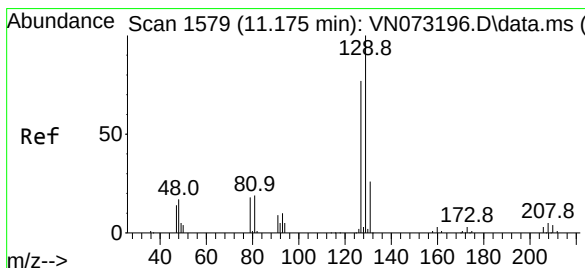
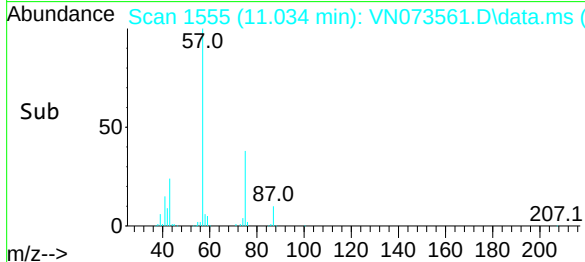
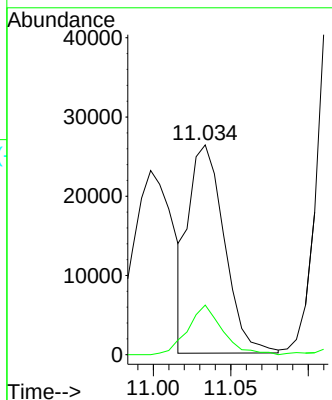
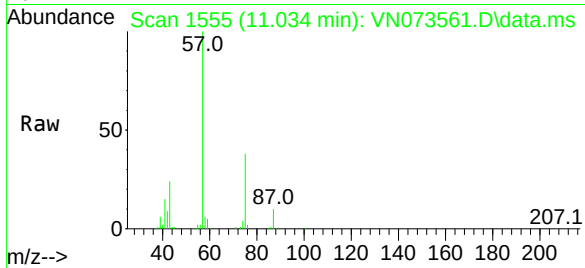




#59
2-Hexanone
Concen: 8.063 ug/l
RT: 11.034 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

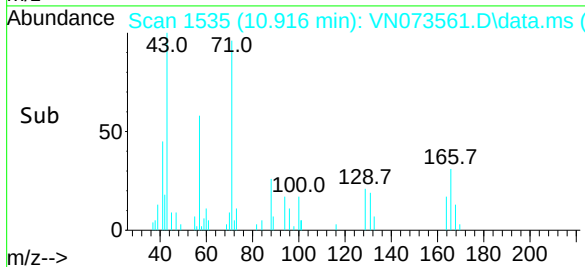
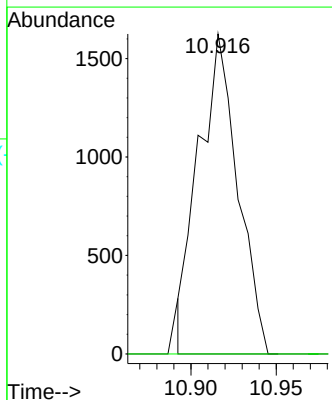
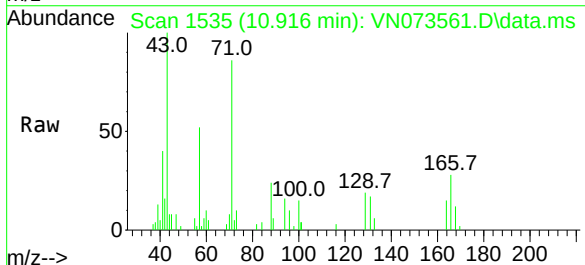
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

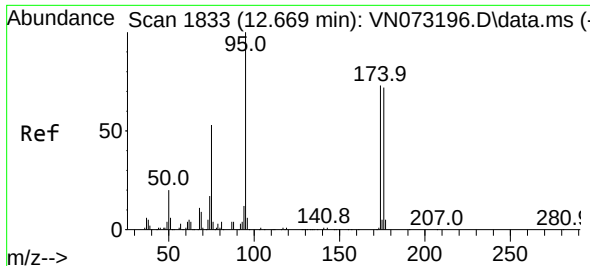
Tgt Ion: 43 Resp: 42003
Ion Ratio Lower Upper
43 100
58 23.2 29.7 89.1#



#60
Dibromochloromethane
Concen: 0.697 ug/l
RT: 10.916 min Scan# 1535
Delta R.T. -0.259 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 129 Resp: 2590
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#

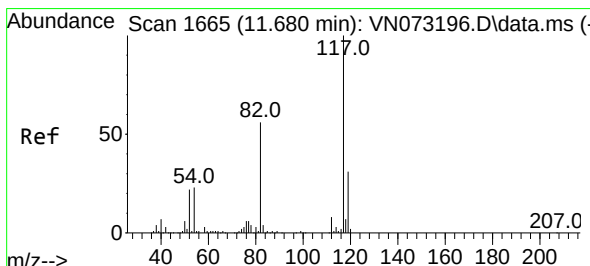
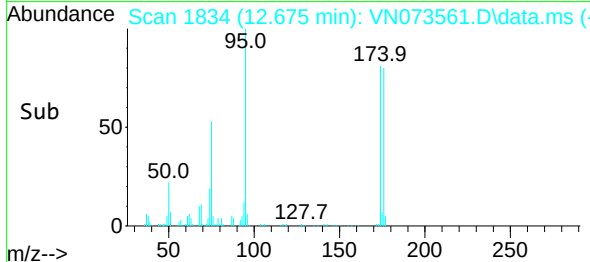
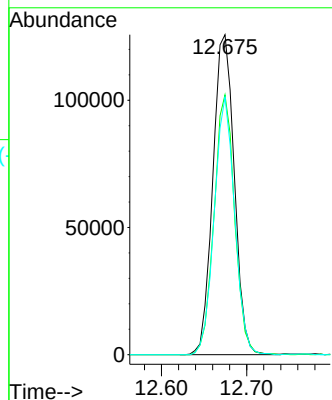
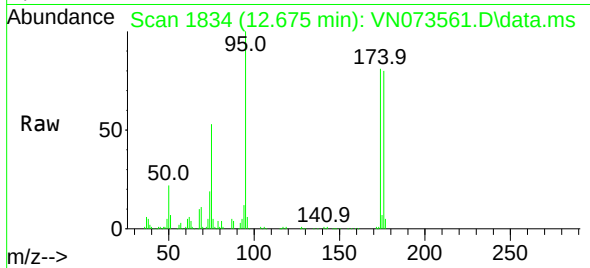




#62
4-Bromofluorobenzene
Concen: 49.863 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

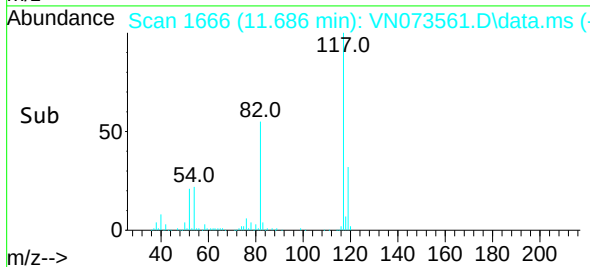
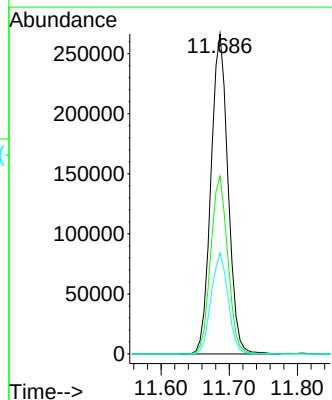
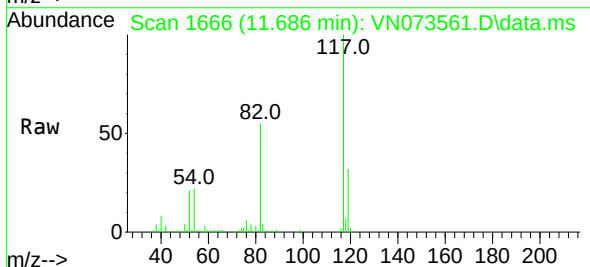
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MSVOA_N
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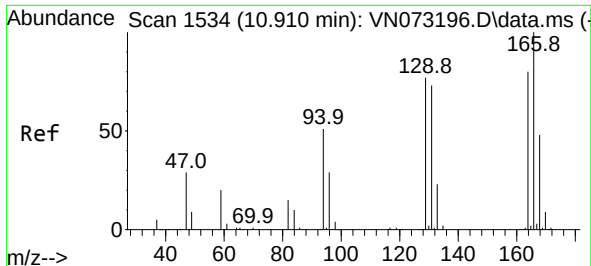
Tgt Ion: 95 Resp: 219505
Ion Ratio Lower Upper
95 100
174 78.0 0.0 167.6
176 76.5 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 117 Resp: 464149
Ion Ratio Lower Upper
117 100
82 55.5 44.2 66.2
119 31.6 25.4 38.0

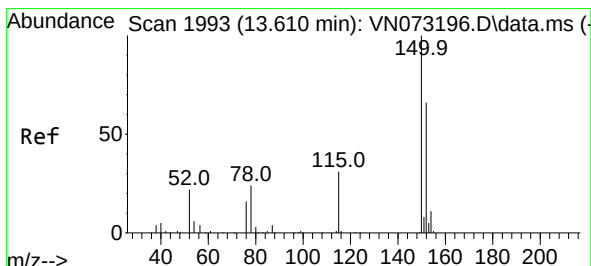
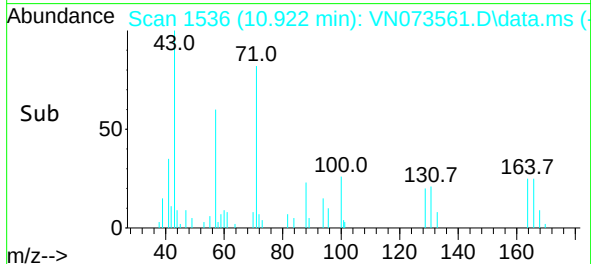
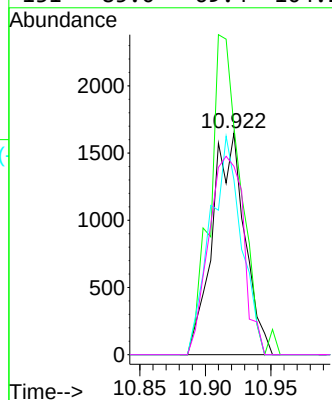
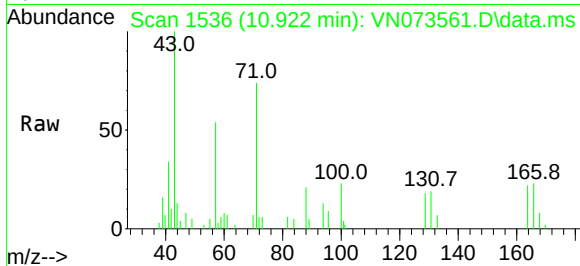




#64
Tetrachloroethene
Concen: 0.748 ug/l
RT: 10.922 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

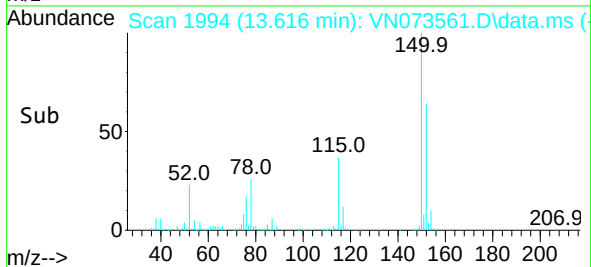
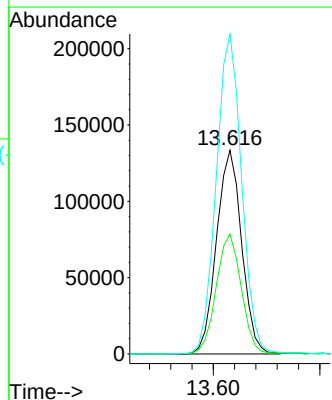
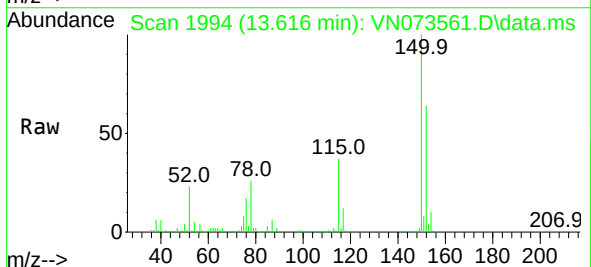
Instrument :
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PB146347TB

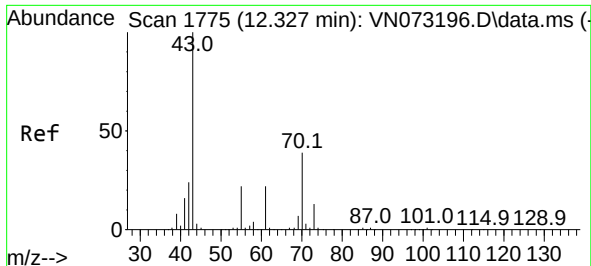
Tgt Ion:164 Resp: 2835
Ion Ratio Lower Upper
164 100
166 102.6 104.2 156.2#
129 78.8 73.9 110.9
131 85.0 69.4 104.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion:152 Resp: 218702
Ion Ratio Lower Upper
152 100
115 59.0 28.9 86.7
150 159.2 0.0 356.2

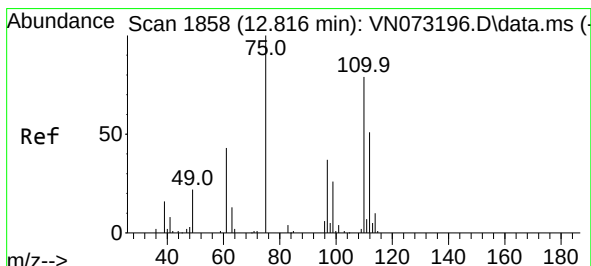
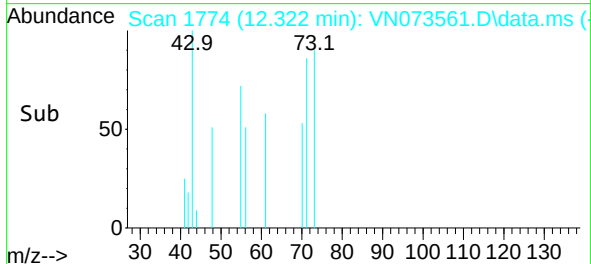
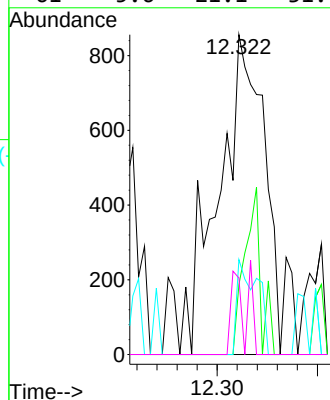
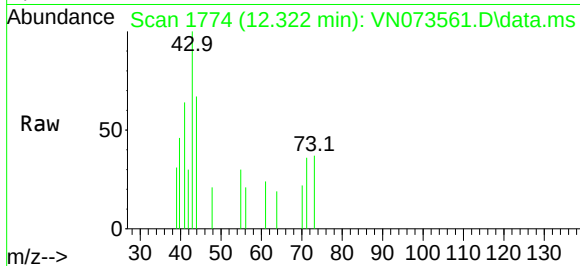




#74
N-amy1 acetate
Concen: 0.287 ug/l
RT: 12.322 min Scan# 1774
Delta R.T. -0.005 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

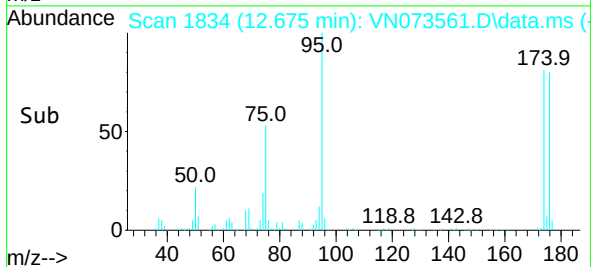
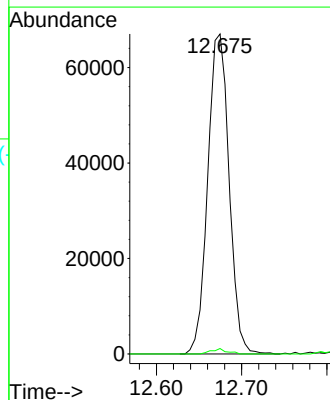
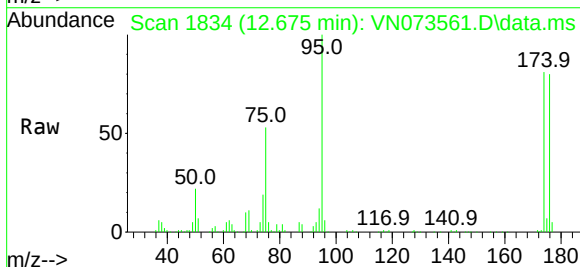
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

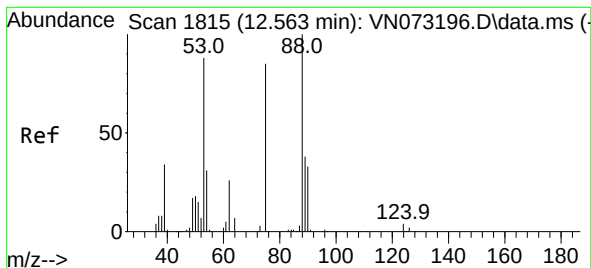
Tgt	Ion: 43	Resp:	2713
Ion	Ratio	Lower	Upper
43	100		
70	0.0	39.0	58.4#
55	13.3	21.1	31.7#
61	5.6	21.1	31.7#



#76
1,2,3-Trichloropropane
Concen: 20.384 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. -0.141 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion: 75	Resp: 116567
Ion Ratio	Lower Upper
75 100	
77 1.2	98.5 295.5#

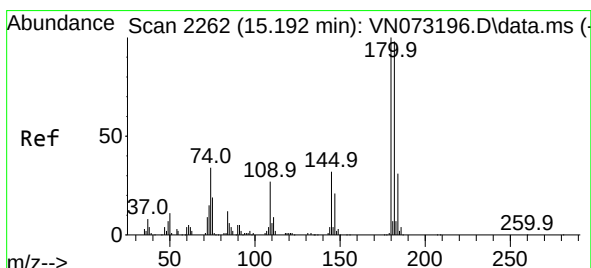
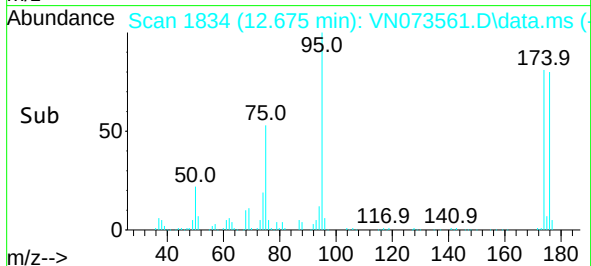
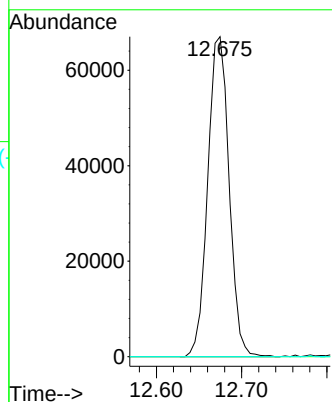
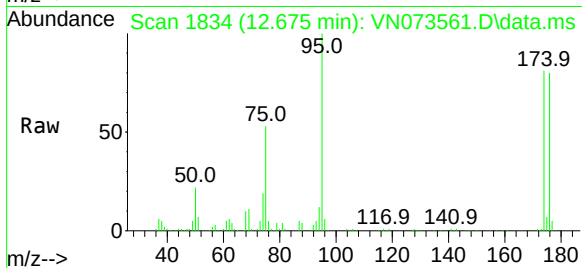




#81
trans-1,4-Dichloro-2-butene
Concen: 55.902 ug/l
RT: 12.675 min Scan# 1815
Delta R.T. 0.112 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

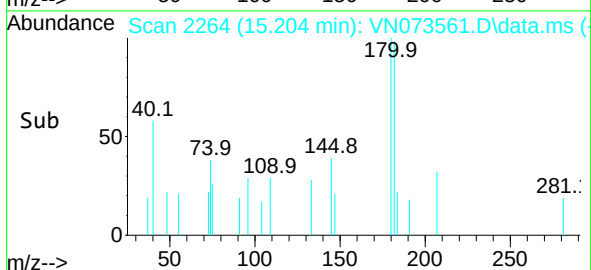
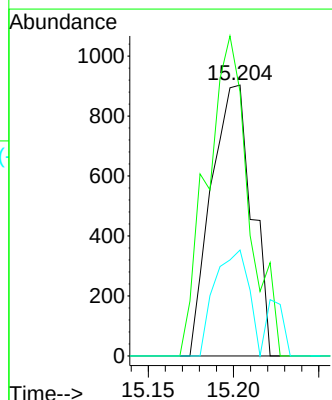
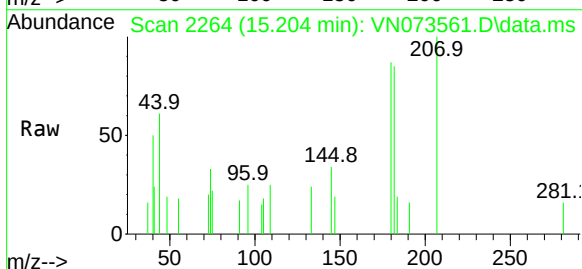
Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

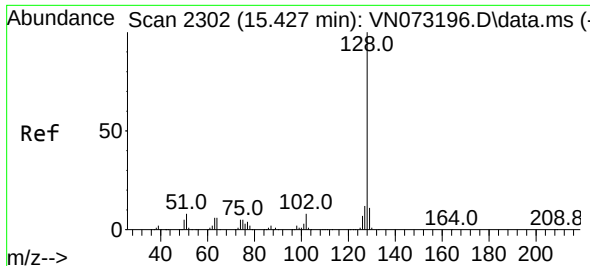
Tgt Ion: 75 Resp: 116567
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#93
1,2,4-Trichlorobenzene
Concen: 0.359 ug/l
RT: 15.204 min Scan# 2264
Delta R.T. 0.012 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion:180 Resp: 1500
Ion Ratio Lower Upper
180 100
182 121.1 47.5 142.5
145 32.7 14.5 43.5

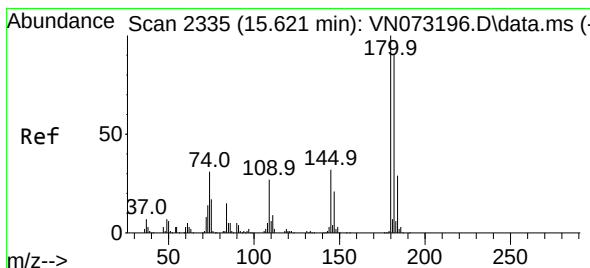
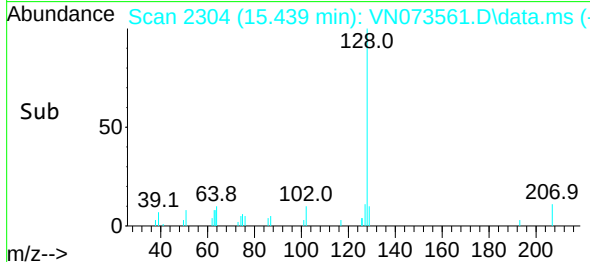
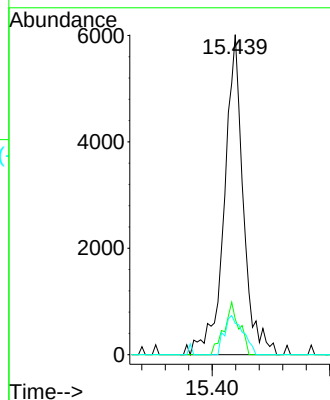
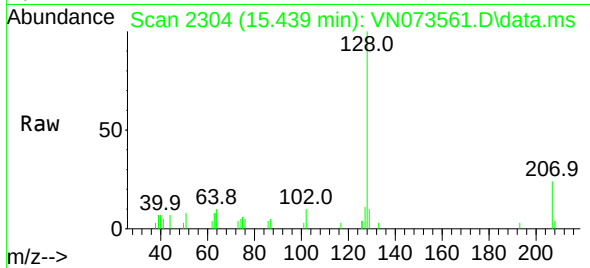




#95
Naphthalene
Concen: 0.801 ug/l
RT: 15.439 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Instrument :
MSVOA_N
ClientSampleId :
PB146347TB

Tgt Ion:128	Resp:	13495
Ion Ratio	Lower	Upper
128	100	
127	13.1	10.3 15.5
129	11.9	8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.575 ug/l
RT: 15.633 min Scan# 2337
Delta R.T. 0.012 min
Lab File: VN073561.D
Acq: 21 Jul 2022 17:34

Tgt Ion:180	Resp:	2478
Ion Ratio	Lower	Upper
180	100	
182	94.0	47.8 143.3
145	23.0	15.5 46.5

