

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077635.D
 Acq On : 09 May 2023 16:30
 Operator : JC\MD
 Sample : PB152652ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152652ZHE#01

Quant Time: May 10 04:47:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 09 13:52:31 2023
 Response via : Initial Calibration

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

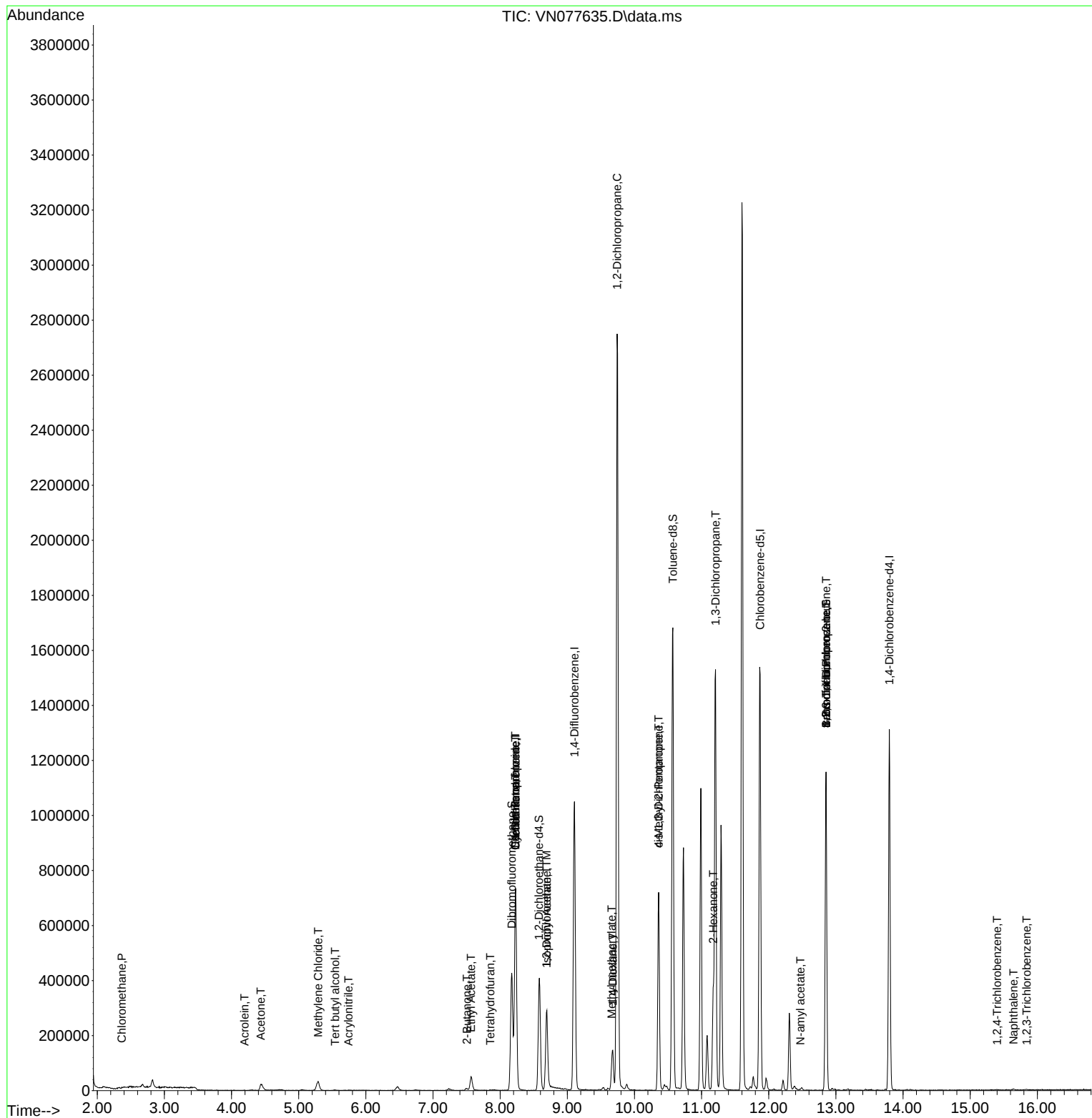
Internal Standards						
1) Pentafluorobenzene	8.231	168	548732	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	992319	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	984381	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	357918	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.578	65	334591	48.079	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.160%		
35) Dibromofluoromethane	8.172	113	311085	50.265	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.540%		
50) Toluene-d8	10.572	98	1238150	52.842	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.680%		
62) 4-Bromofluorobenzene	12.854	95	424059	53.509	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	107.020%		
Target Compounds						Qvalue
3) Chloromethane	2.366	50	2027	0.367	ug/l #	65
11) Tert butyl alcohol	5.542	59	966	1.180	ug/l #	81
13) Acrolein	4.195	56	375	0.473	ug/l	90
15) Acrylonitrile	5.742	53	409	0.202	ug/l #	48
16) Acetone	4.437	43	19256	11.652	ug/l	93
20) Methylene Chloride	5.290	84	28745	4.197	ug/l	89
25) 2-Butanone	7.507	43	9243	3.827	ug/l #	87
29) Tetrahydrofuran	7.854	42	1105	0.745	ug/l #	70
31) Cyclohexane	8.225	56	11364	1.278	ug/l #	17
36) 1,1-Dichloropropene	8.225	75	43152	5.052	ug/l #	47
37) Ethyl Acetate	7.566	43	66193	13.554	ug/l	96
38) Carbon Tetrachloride	8.225	117	60009	6.431	ug/l #	17
42) 1,2-Dichloroethane	8.689	62	3089	0.357	ug/l #	73
43) Isopropyl Acetate	8.695	43	314869	36.773	ug/l #	91
45) 1,2-Dichloropropane	9.742	63	4349	0.732	ug/l #	45
48) Methyl methacrylate	9.660	41	7467	1.858	ug/l #	34
49) 1,4-Dioxane	9.677	88	80	0.669	ug/l #	1
51) 4-Methyl-2-Pentanone	10.360	43	236624	46.974	ug/l #	41
54) cis-1,3-Dichloropropene	10.360	75	154430	15.434	ug/l #	61
57) 1,3-Dichloropropane	11.207	76	18996	1.773	ug/l #	43
59) 2-Hexanone	11.172	43	248299	69.743	ug/l #	19
71) Bromoform	12.854	173	2282	0.516	ug/l #	1
74) N-amyl acetate	12.471	43	3181	0.451	ug/l #	42
76) 1,2,3-Trichloropropane	12.854	75	214503	29.041	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	214503	92.471	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.401	180	975	4.751	ug/l	72
95) Naphthalene	15.648	128	3894	4.933	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.842	180	559	4.604	ug/l #	62

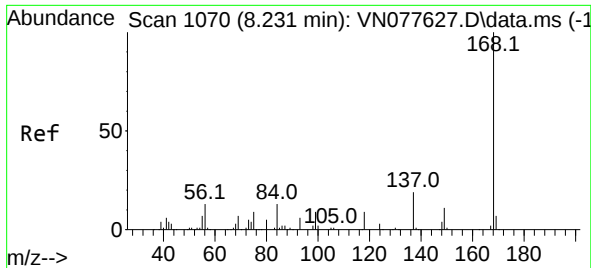
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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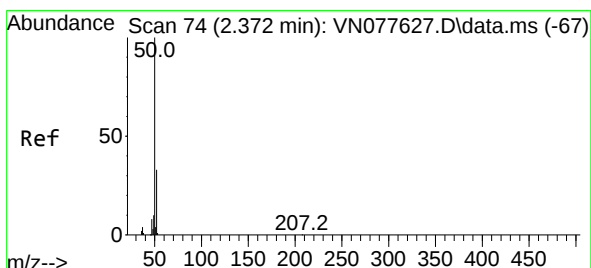
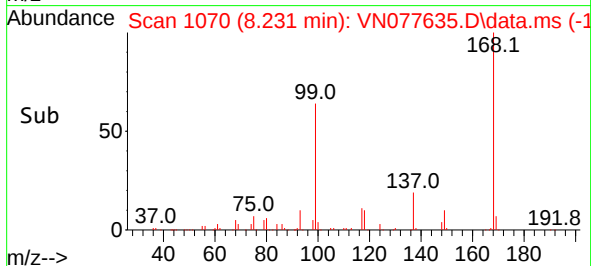
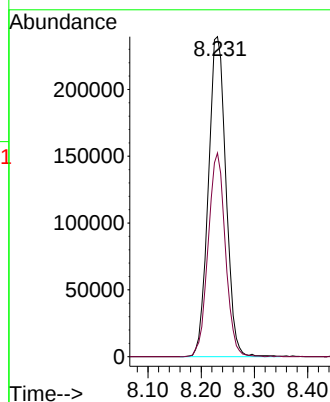
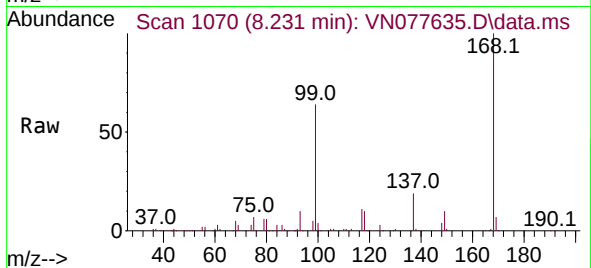




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

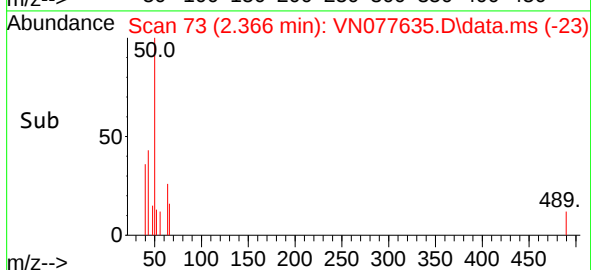
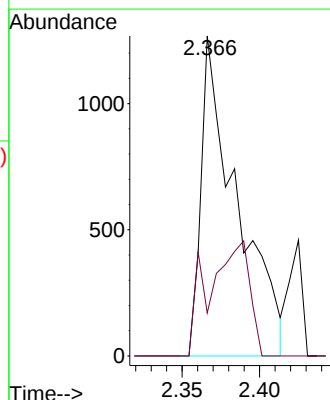
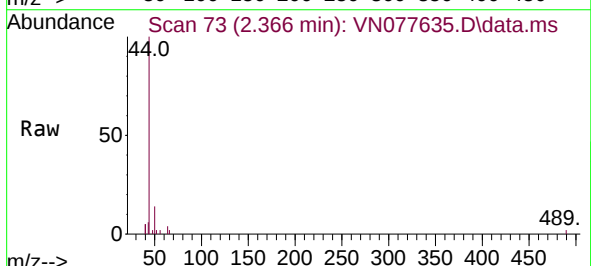
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

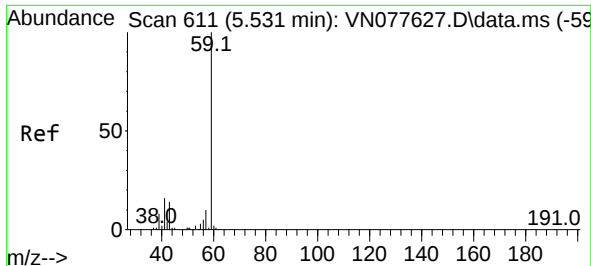
Tgt Ion:168 Resp: 548732
Ion Ratio Lower Upper
168 100
99 63.6 53.0 79.6



#3
Chloromethane
Concen: 0.367 ug/l
RT: 2.366 min Scan# 73
Delta R.T. -0.006 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion: 50 Resp: 2027
Ion Ratio Lower Upper
50 100
52 13.4 26.5 39.7#





#11

Tert butyl alcohol

Concen: 1.180 ug/l

RT: 5.542 min Scan# 611

Delta R.T. 0.011 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

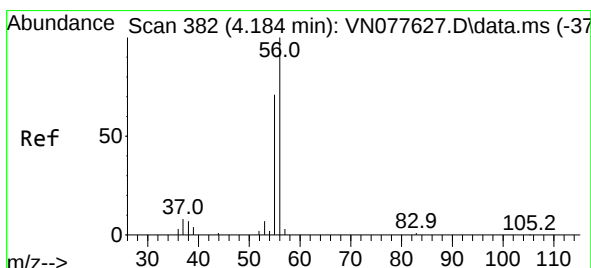
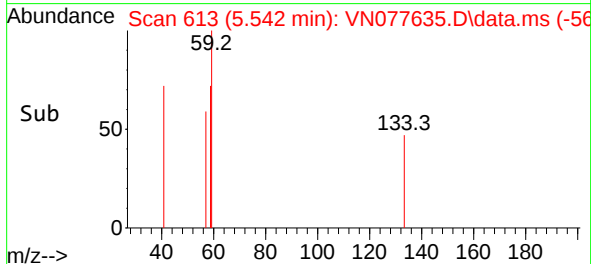
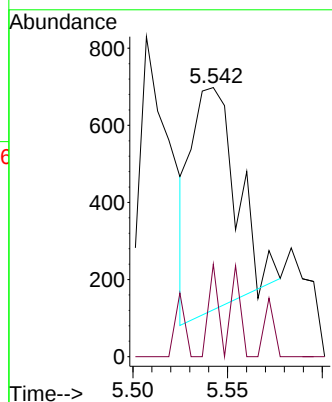
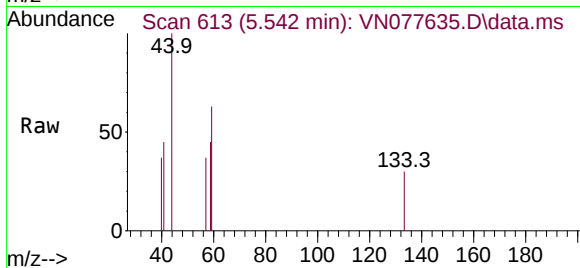
PB152652ZHE#01

Tgt Ion: 59 Resp: 966

Ion Ratio Lower Upper

59 100

57 17.4 8.2 12.4#



#13

Acrolein

Concen: 0.473 ug/l

RT: 4.195 min Scan# 384

Delta R.T. 0.011 min

Lab File: VN077635.D

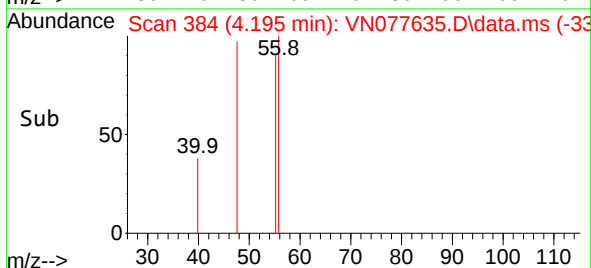
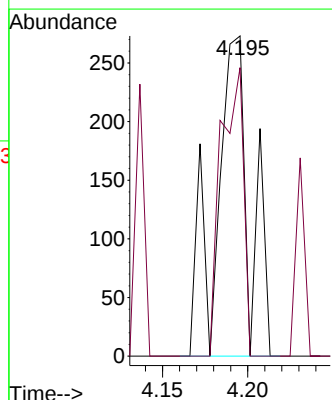
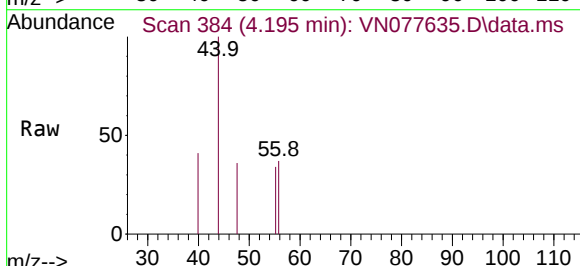
Acq: 09 May 2023 16:30

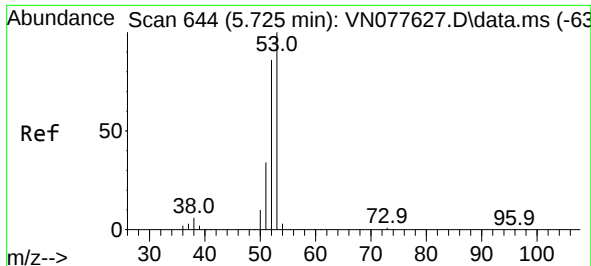
Tgt Ion: 56 Resp: 375

Ion Ratio Lower Upper

56 100

55 60.0 54.5 81.7





#15

Acrylonitrile

Concen: 0.202 ug/l

RT: 5.742 min Scan# 644

Delta R.T. 0.017 min

Lab File: VN077635.D

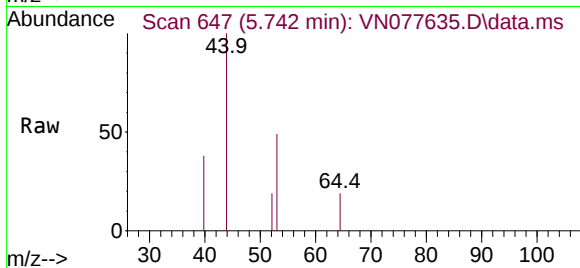
Acq: 09 May 2023 16:30

Instrument :

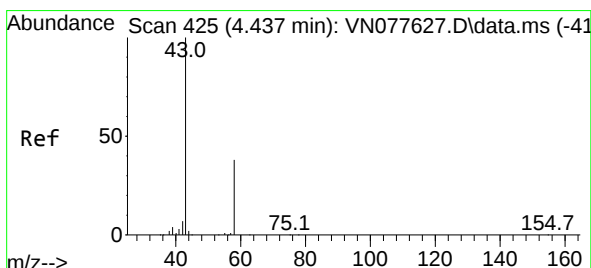
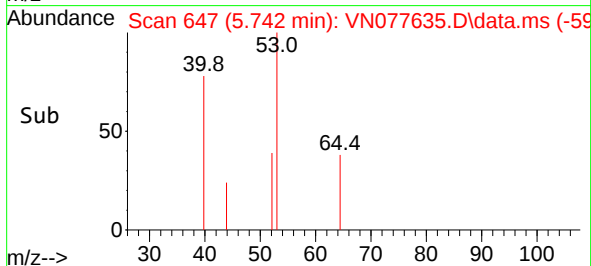
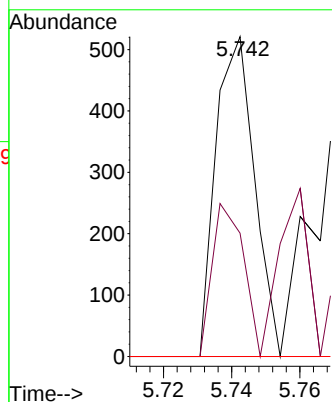
MSVOA_N

ClientSampleId :

PB152652ZHE#01



Tgt Ion: 53	Resp: 409
Ion Ratio	Lower Upper
53	100
52	38.9 65.3 97.9#
51	0.0 28.9 43.3#



#16

Acetone

Concen: 11.652 ug/l

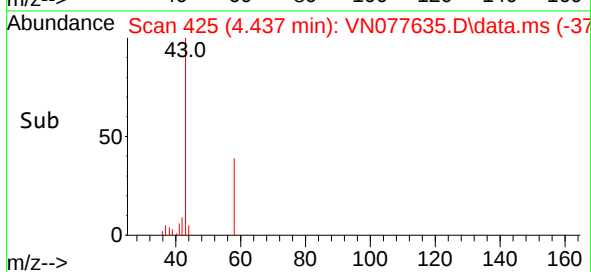
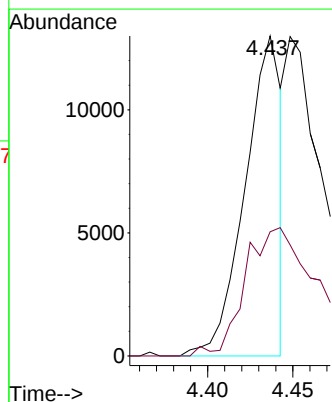
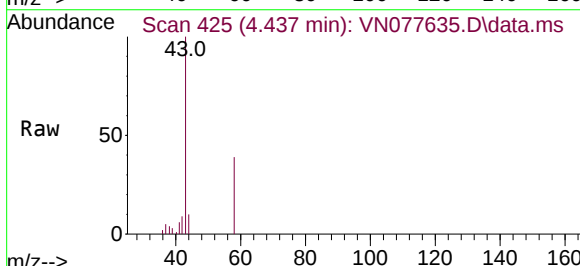
RT: 4.437 min Scan# 425

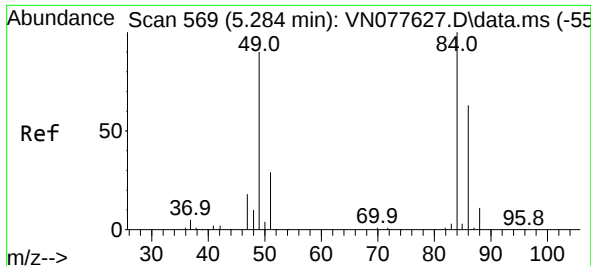
Delta R.T. -0.000 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Tgt Ion: 43	Resp: 19256
Ion Ratio	Lower Upper
43	100
58	38.8 28.0 42.0

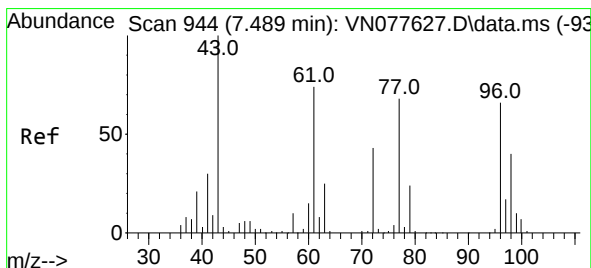
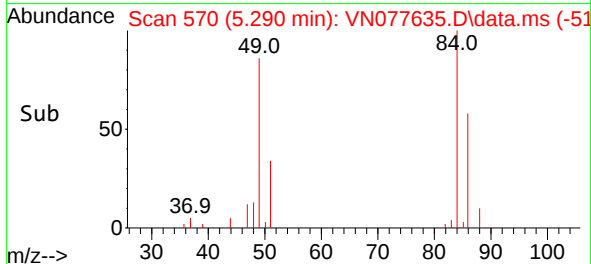
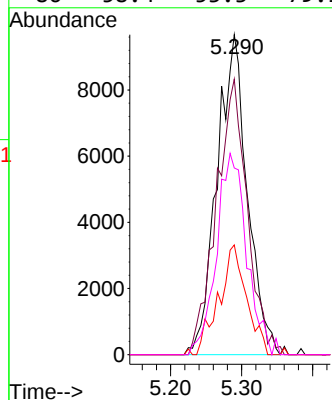
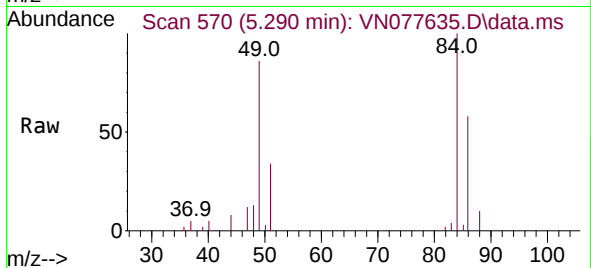




#20
Methylene Chloride
Concen: 4.197 ug/l
RT: 5.290 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

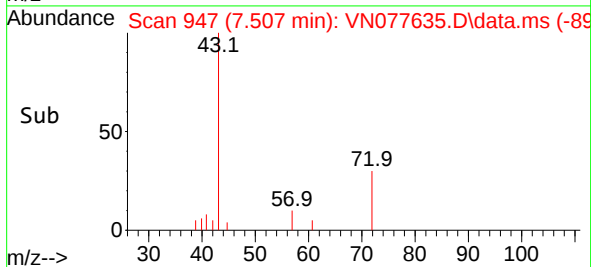
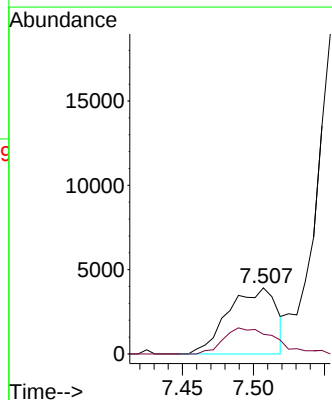
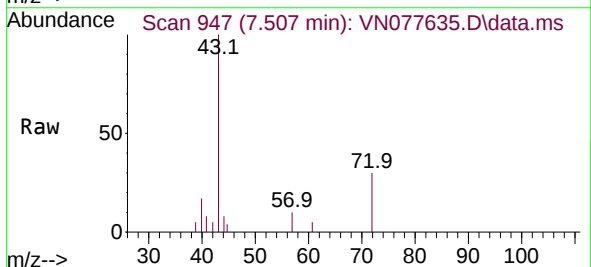
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

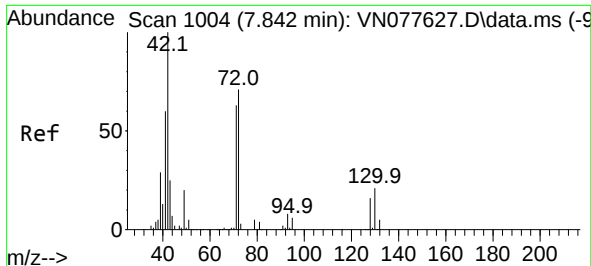
Tgt Ion:	84	Resp:	28745
Ion	Ratio	Lower	Upper
84	100		
49	86.1	79.7	119.5
51	34.3	25.2	37.8
86	58.4	53.3	79.9



#25
2-Butanone
Concen: 3.827 ug/l
RT: 7.507 min Scan# 947
Delta R.T. 0.018 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion:	43	Resp:	9243
Ion	Ratio	Lower	Upper
43	100		
72	29.9	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.745 ug/l

RT: 7.854 min Scan# 1069

Delta R.T. 0.012 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

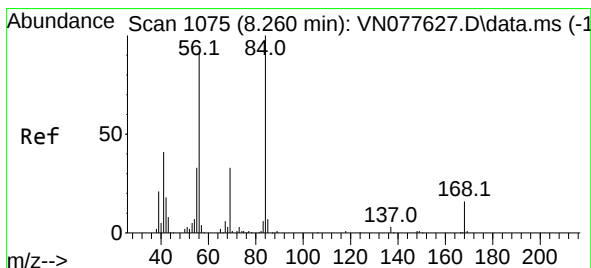
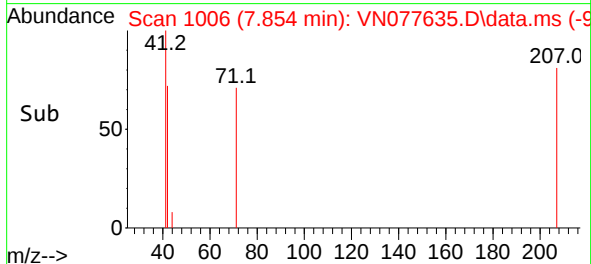
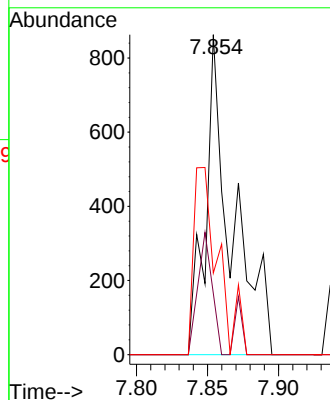
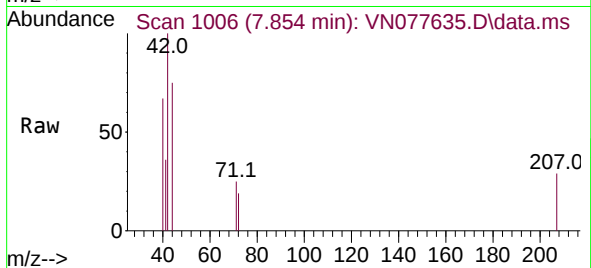
Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#01

Tgt Ion:	42	Resp:	1105
Ion	Ratio	Lower	Upper
42	100		
72	21.1	49.8	74.6#
71	54.8	47.4	71.2



#31

Cyclohexane

Concen: 1.278 ug/l

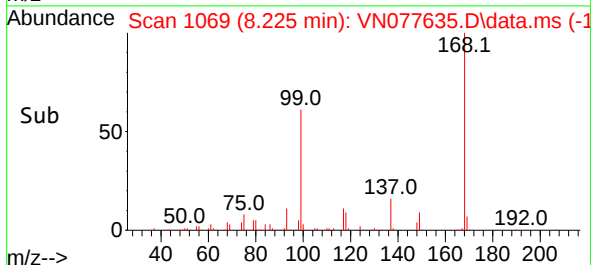
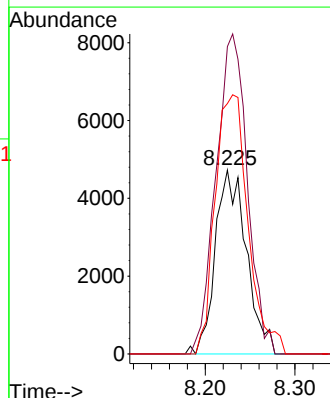
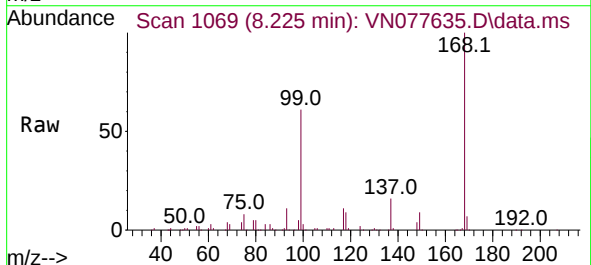
RT: 8.225 min Scan# 1069

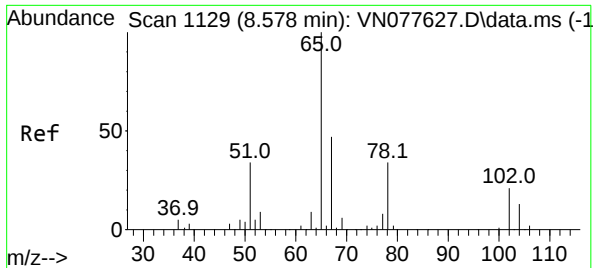
Delta R.T. -0.035 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Tgt Ion:	56	Resp:	11364
Ion	Ratio	Lower	Upper
56	100		
69	167.3	26.8	40.2#
84	136.2	81.8	122.6#

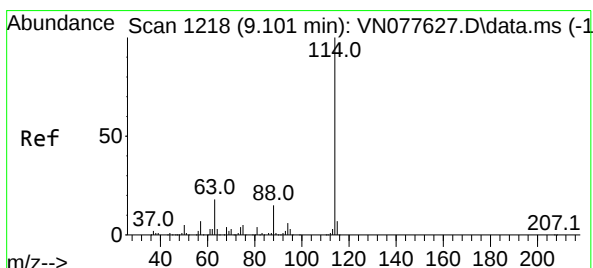
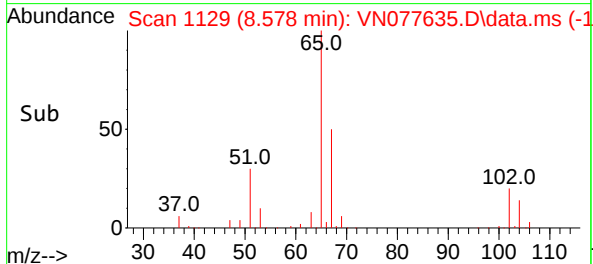
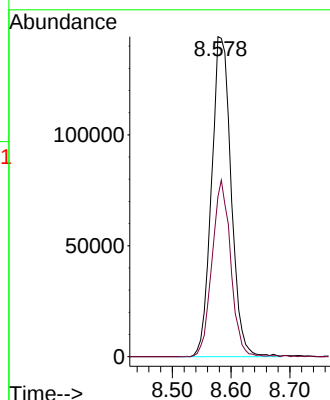
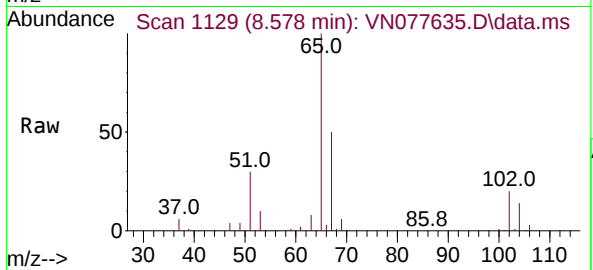




#33
 1,2-Dichloroethane-d4
 Concen: 48.079 ug/l
 RT: 8.578 min Scan# 1129
 Delta R.T. -0.000 min
 Lab File: VN077635.D
 Acq: 09 May 2023 16:30

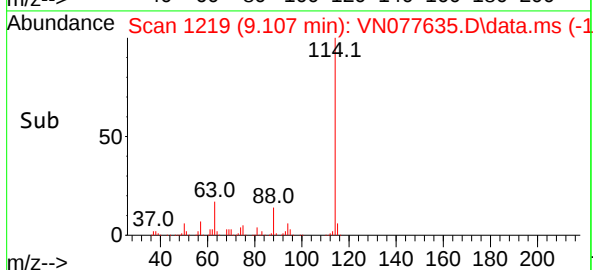
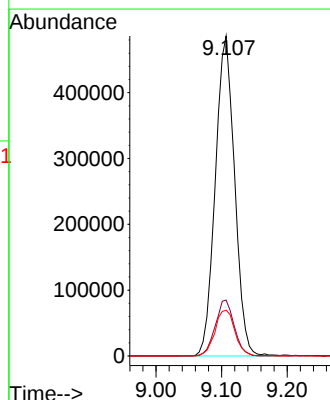
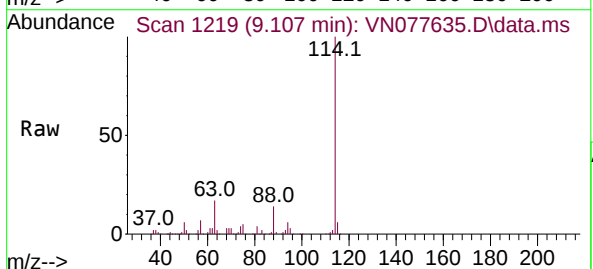
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152652ZHE#01

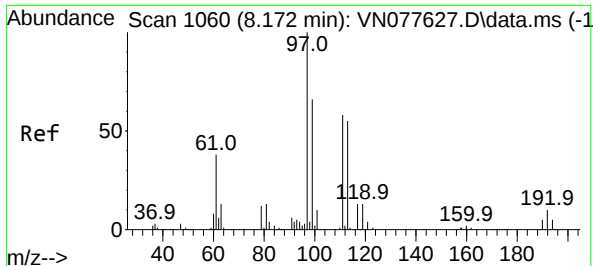
Tgt Ion: 65 Resp: 334591
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.107 min Scan# 1219
 Delta R.T. 0.006 min
 Lab File: VN077635.D
 Acq: 09 May 2023 16:30

Tgt Ion: 114 Resp: 992319
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 36.4
 88 14.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.265 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#01

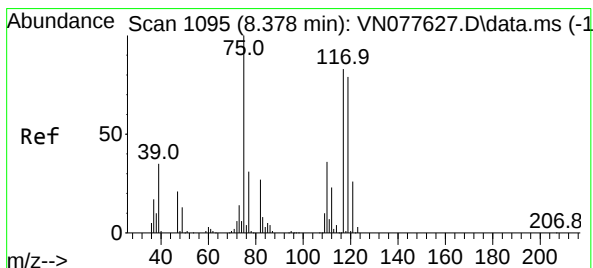
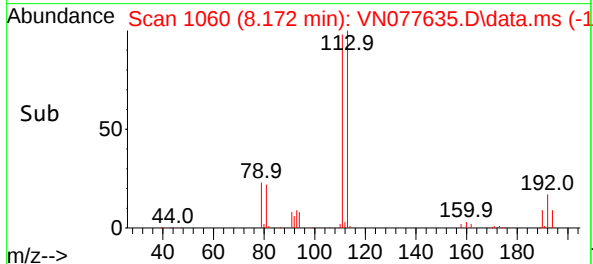
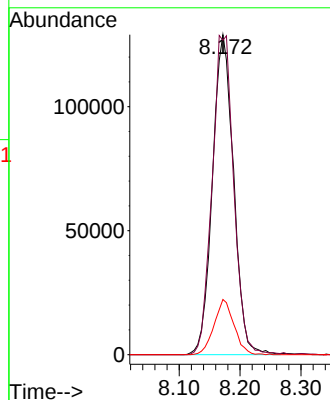
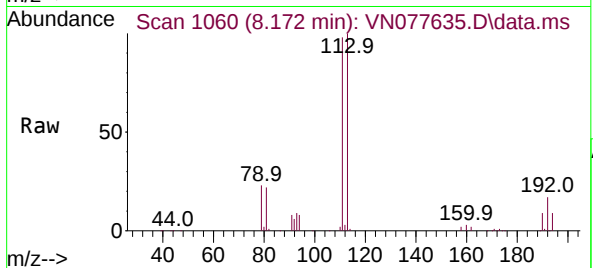
Tgt Ion:113 Resp: 311085

Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 16.3 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.052 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

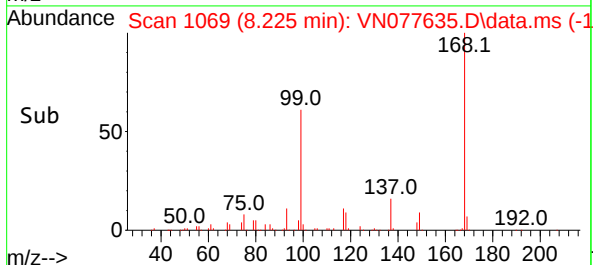
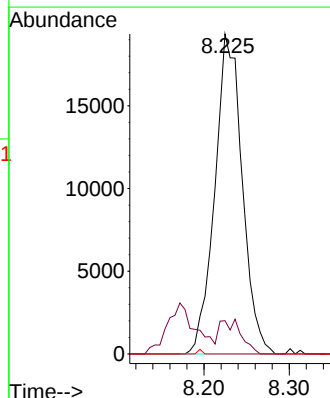
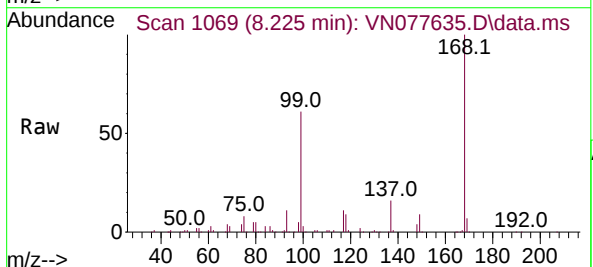
Tgt Ion: 75 Resp: 43152

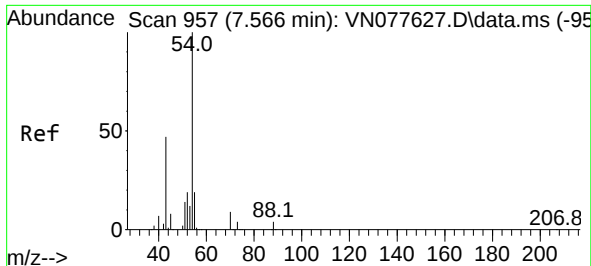
Ion Ratio Lower Upper

75 100

110 8.4 19.1 57.3#

77 0.0 25.0 37.4#

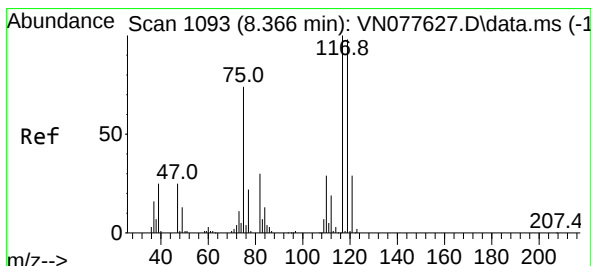
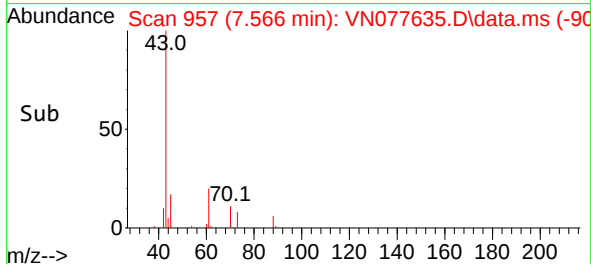
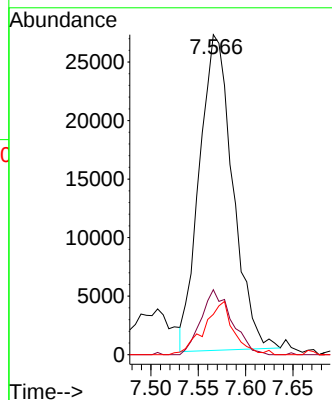
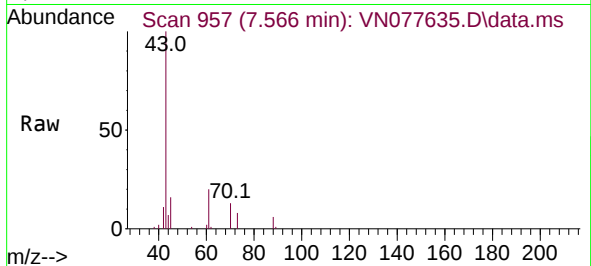




#37
Ethyl Acetate
Concen: 13.554 ug/l
RT: 7.566 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

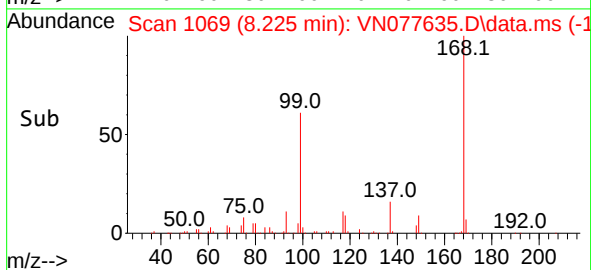
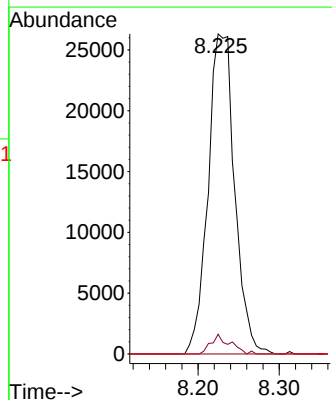
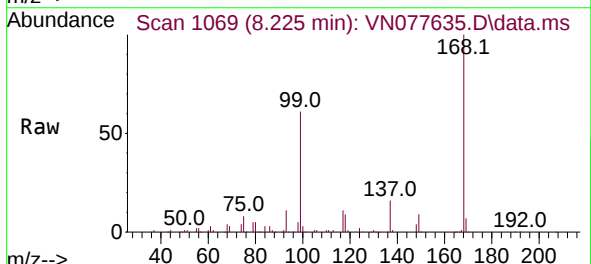
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

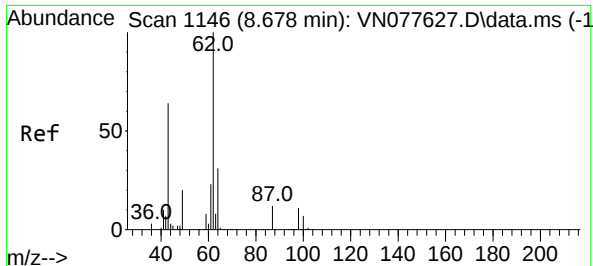
Tgt Ion:	43	Resp:	66193
Ion	Ratio	Lower	Upper
43	100		
61	19.0	13.2	19.8
70	14.9	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.431 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.141 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion:	117	Resp:	60009
Ion	Ratio	Lower	Upper
117	100		
119	6.2	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.357 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.011 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

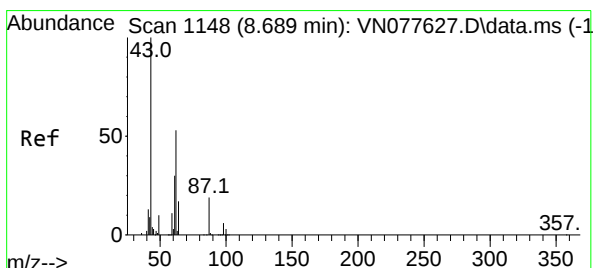
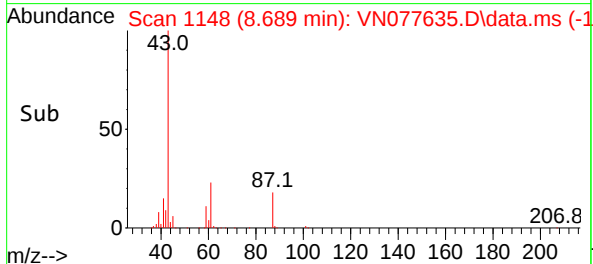
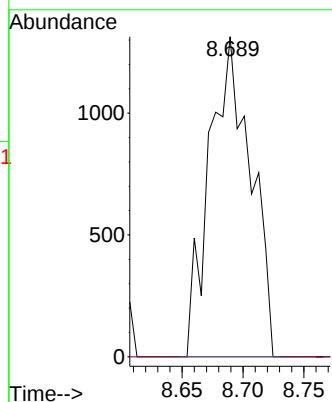
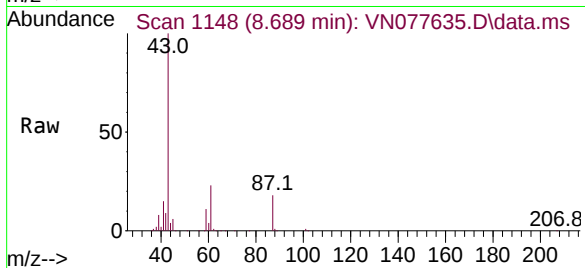
PB152652ZHE#01

Tgt Ion: 62 Resp: 3089

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 36.773 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.006 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

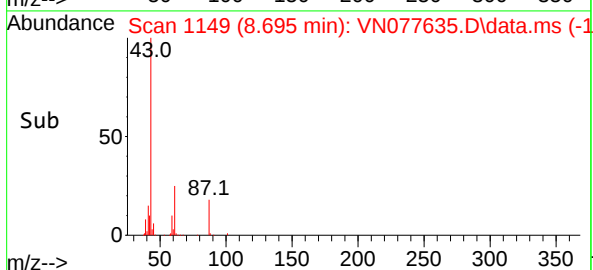
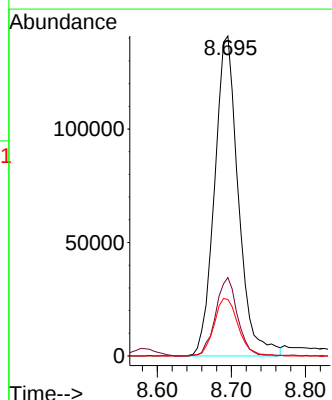
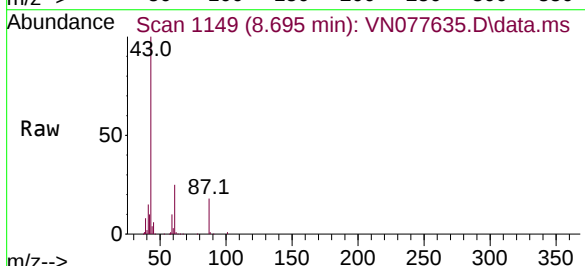
Tgt Ion: 43 Resp: 314869

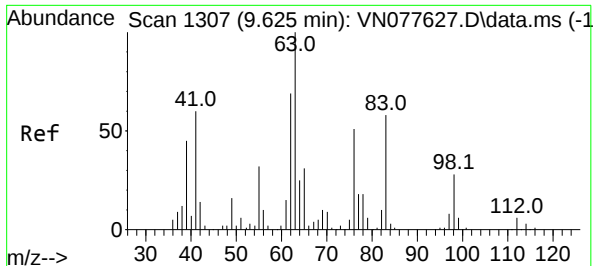
Ion Ratio Lower Upper

43 100

61 22.6 24.7 37.1#

87 18.2 14.6 21.8





#45

1,2-Dichloropropane

Concen: 0.732 ug/l

RT: 9.742 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

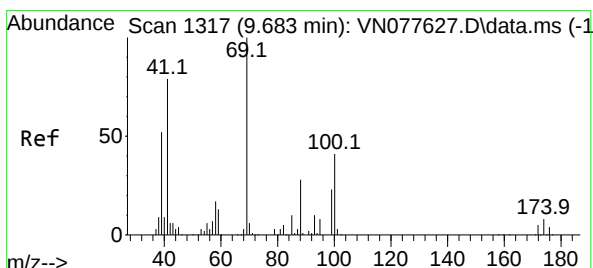
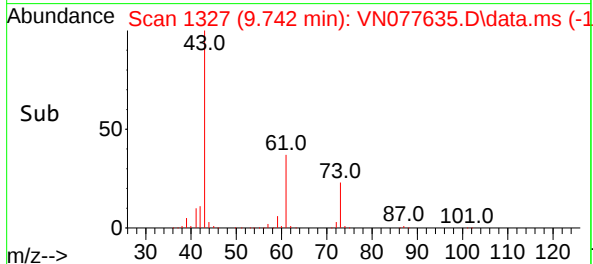
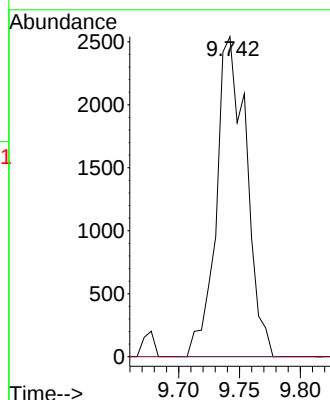
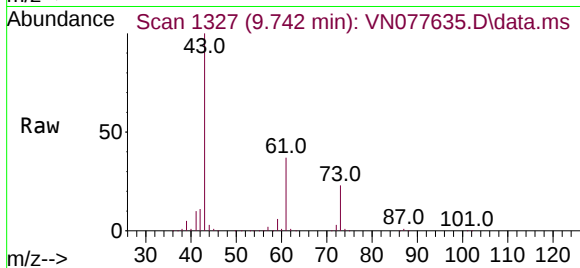
PB152652ZHE#01

Tgt Ion: 63 Resp: 4349

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.858 ug/l

RT: 9.660 min Scan# 1313

Delta R.T. -0.023 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

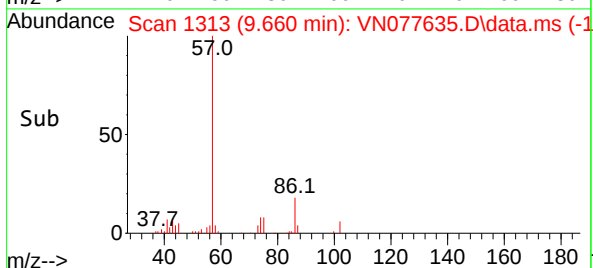
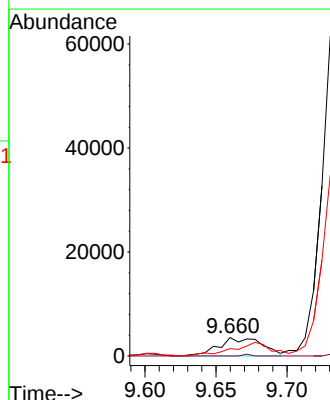
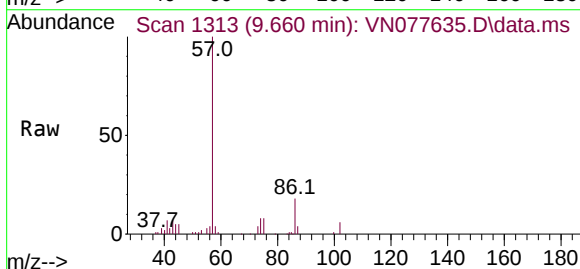
Tgt Ion: 41 Resp: 7467

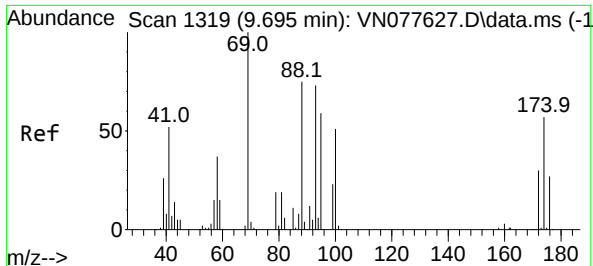
Ion Ratio Lower Upper

41 100

69 1.6 90.4 135.6#

39 66.4 54.6 81.8





#49

1,4-Dioxane

Concen: 0.669 ug/l

RT: 9.677 min Scan# 1316

Delta R.T. -0.018 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Instrument :

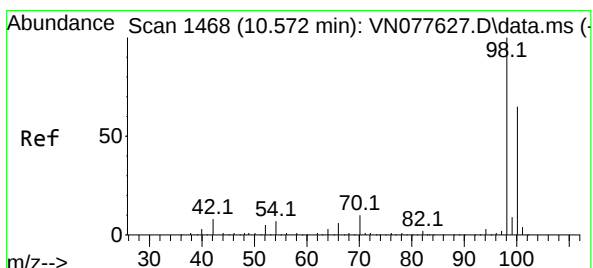
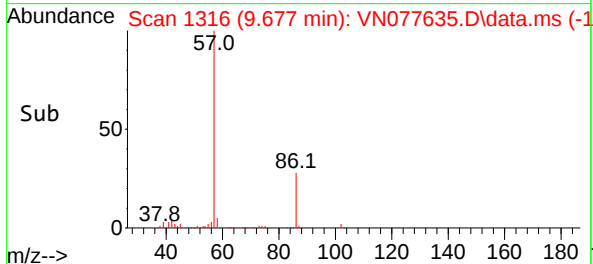
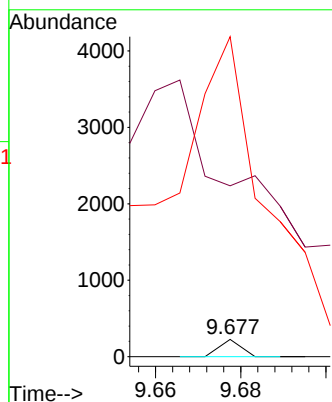
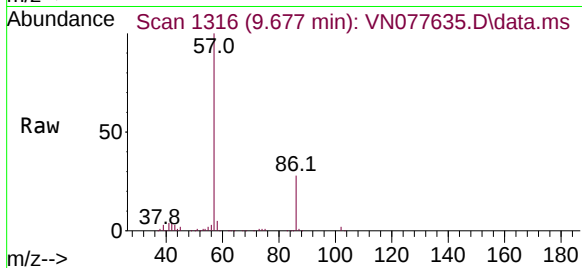
MSVOA_N

ClientSampleId :

PB152652ZHE#01

Tgt Ion: 88 Resp: 80

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.0	25.6#
58	9446.3	47.0	70.4#



#50

Toluene-d8

Concen: 52.842 ug/l

RT: 10.572 min Scan# 1468

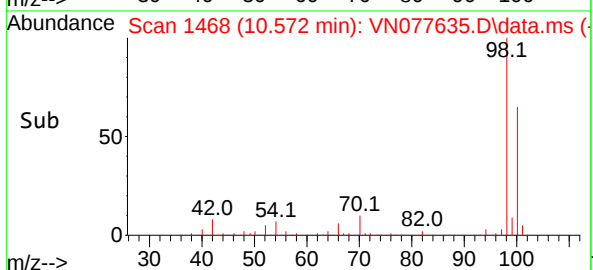
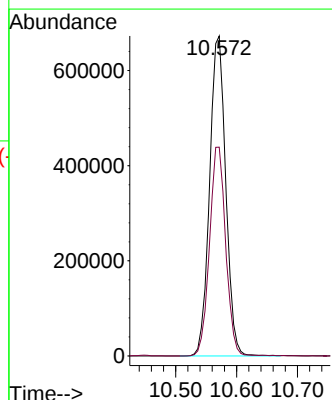
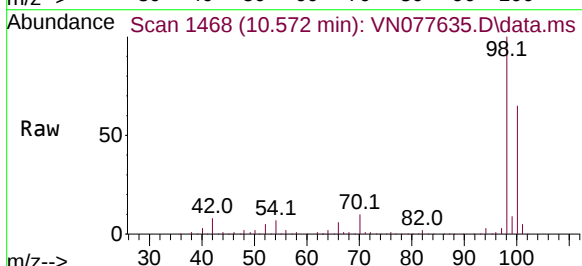
Delta R.T. -0.000 min

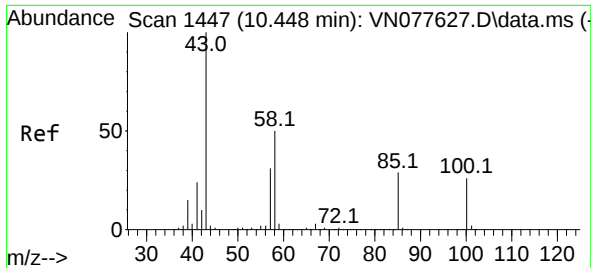
Lab File: VN077635.D

Acq: 09 May 2023 16:30

Tgt Ion: 98 Resp: 1238150

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0

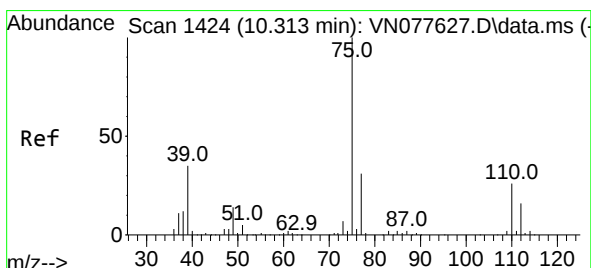
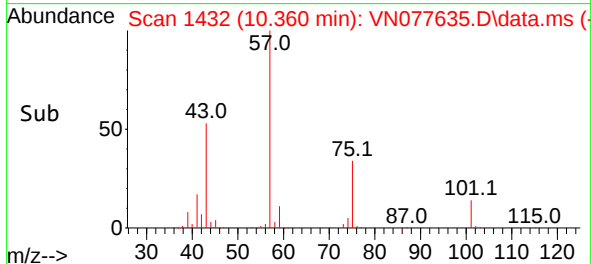
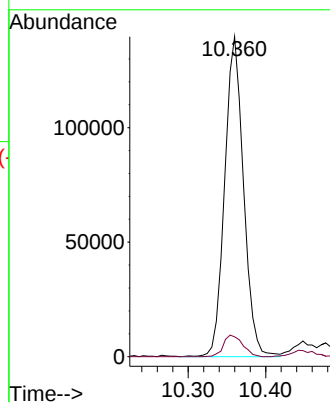
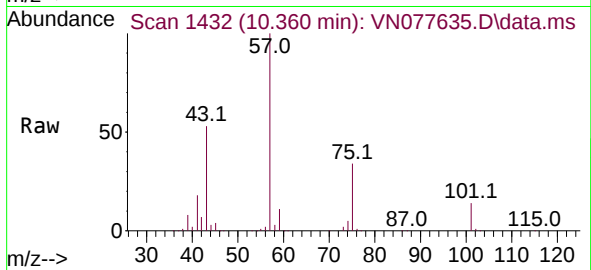




#51
4-Methyl-2-Pentanone
Concen: 46.974 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. -0.088 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

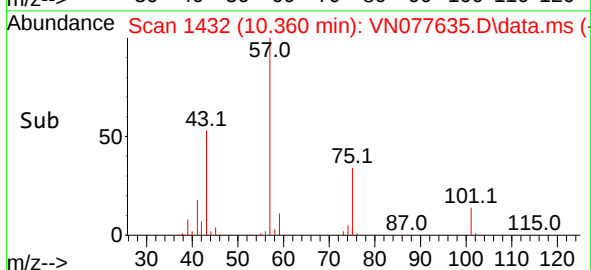
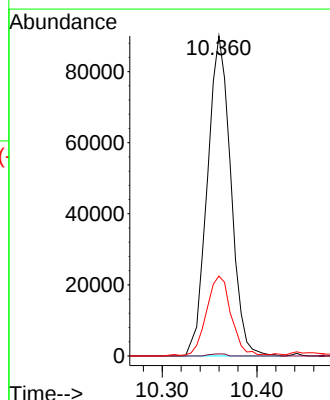
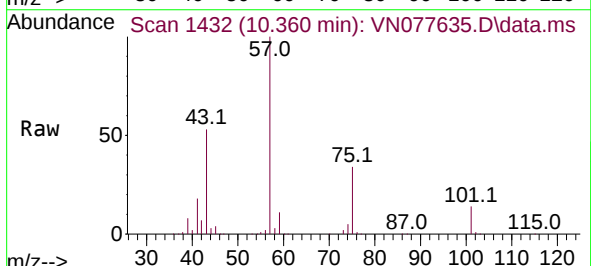
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

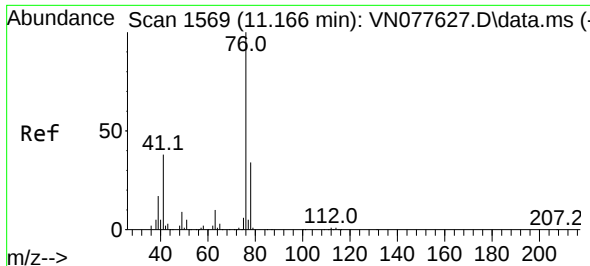
Tgt Ion: 43 Resp: 236624
Ion Ratio Lower Upper
43 100
58 6.9 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 15.434 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion: 75 Resp: 154430
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 24.8 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.773 ug/l

RT: 11.207 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

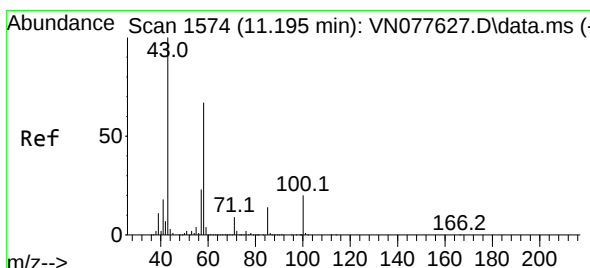
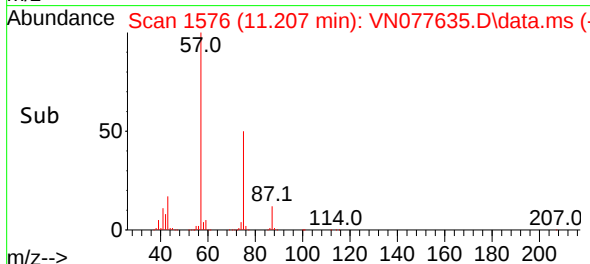
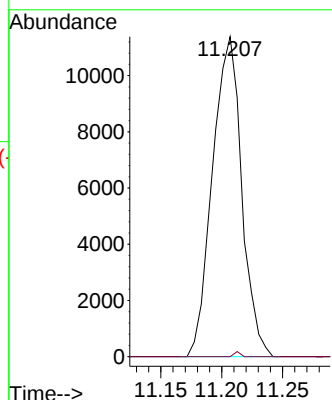
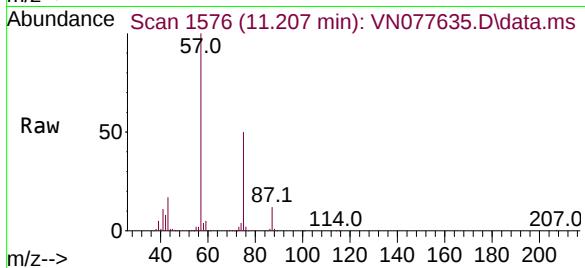
PB152652ZHE#01

Tgt Ion: 76 Resp: 18996

Ion Ratio Lower Upper

76 100

78 0.3 26.1 39.1#



#59

2-Hexanone

Concen: 69.743 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN077635.D

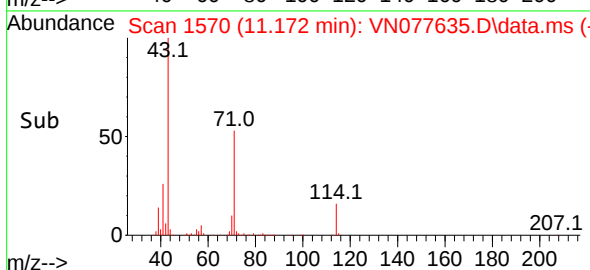
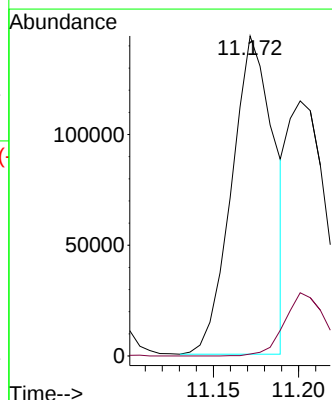
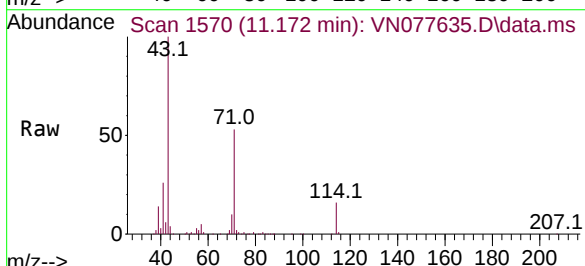
Acq: 09 May 2023 16:30

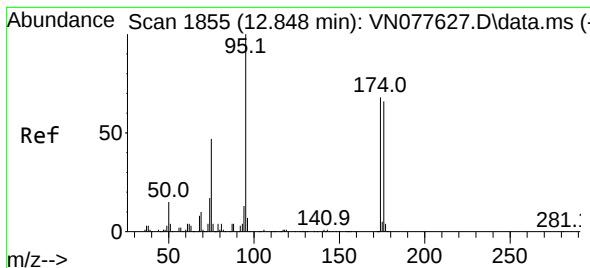
Tgt Ion: 43 Resp: 248299

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

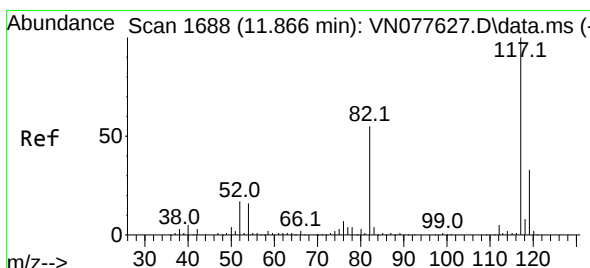
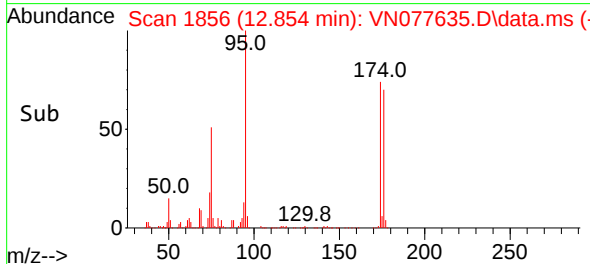
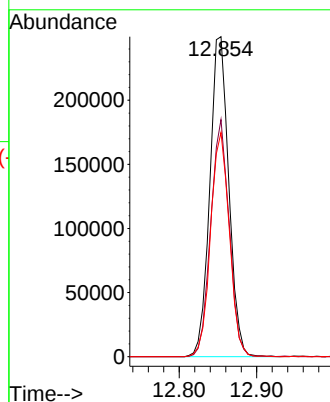
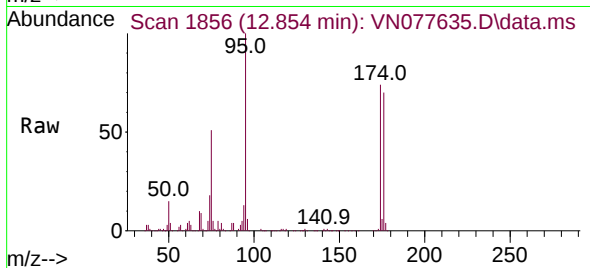




#62
4-Bromofluorobenzene
Concen: 53.509 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

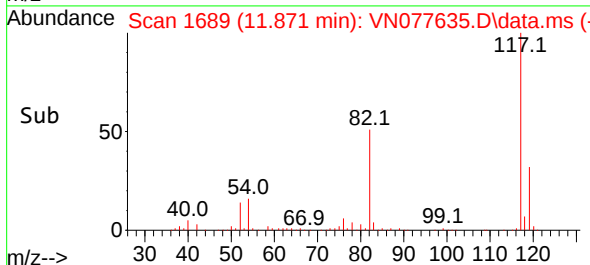
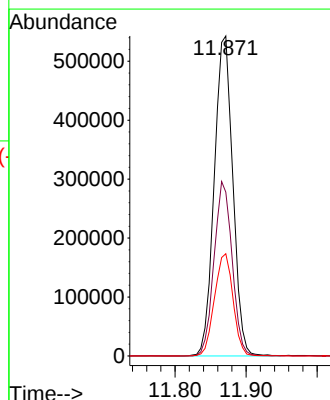
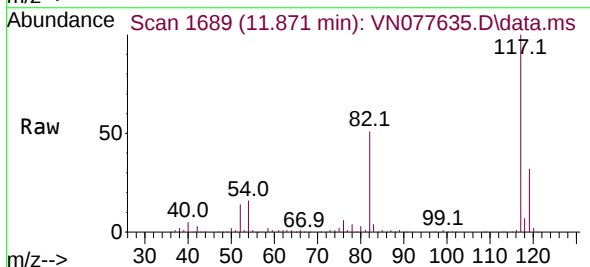
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

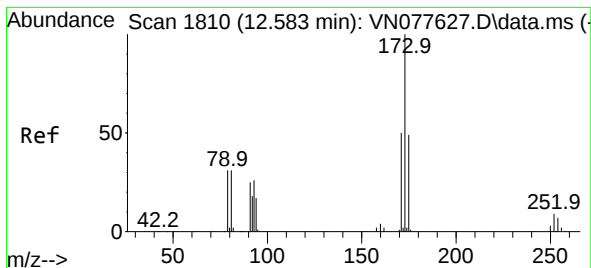
Tgt Ion: 95 Resp: 424059
Ion Ratio Lower Upper
95 100
174 72.1 0.0 143.8
176 69.3 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.005 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion: 117 Resp: 984381
Ion Ratio Lower Upper
117 100
82 51.2 44.0 66.0
119 32.0 25.6 38.4





#71

Bromoform

Concen: 0.516 ug/l

RT: 12.854 min Scan# 1810

Delta R.T. 0.271 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#01

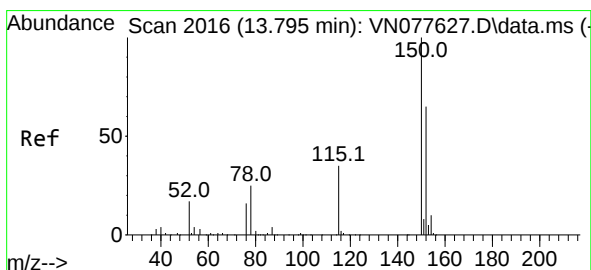
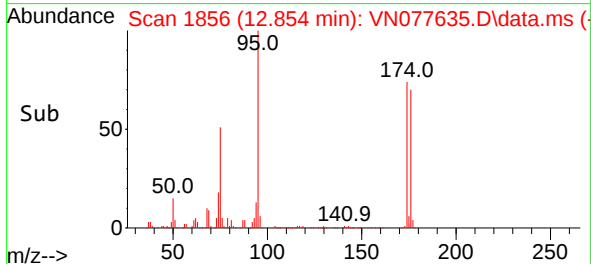
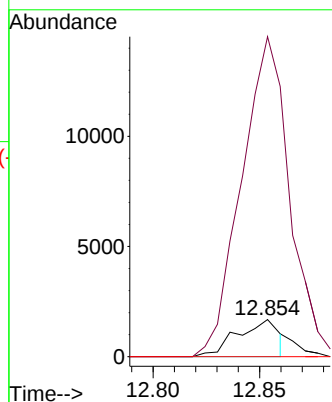
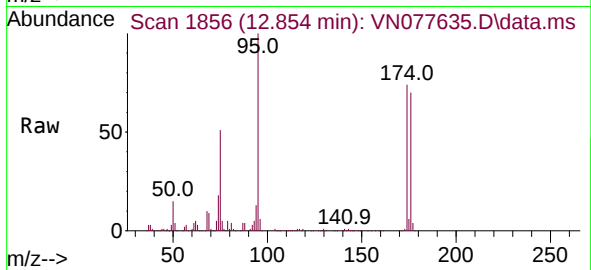
Tgt Ion:173 Resp: 2282

Ion Ratio Lower Upper

173 100

175 836.3 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077635.D

Acq: 09 May 2023 16:30

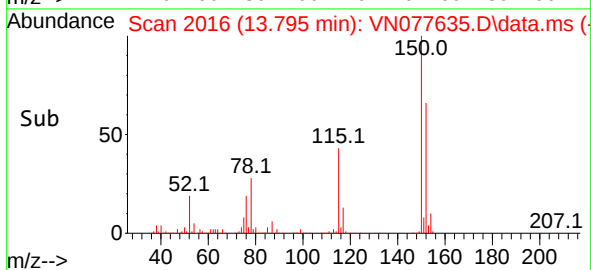
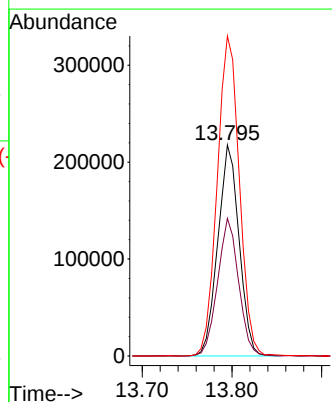
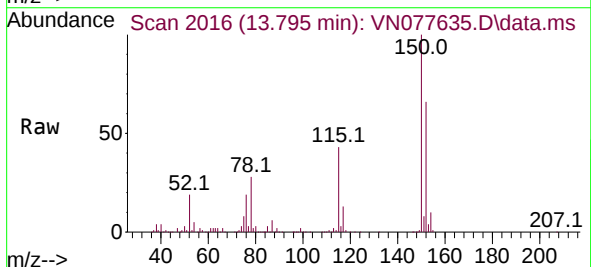
Tgt Ion:152 Resp: 357918

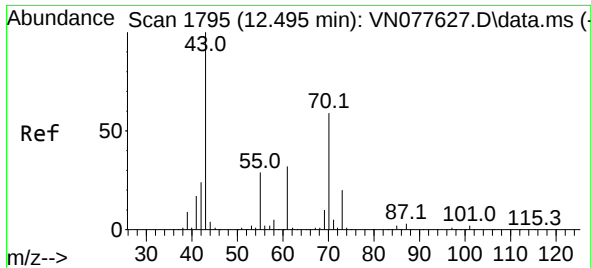
Ion Ratio Lower Upper

152 100

115 64.4 32.3 96.8

150 157.9 0.0 355.8

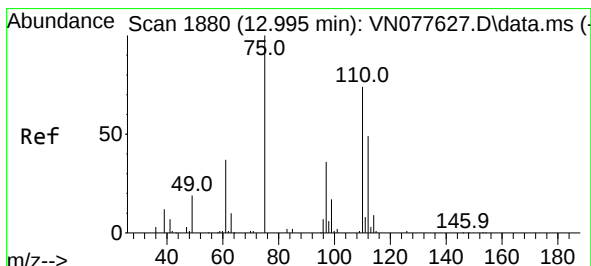
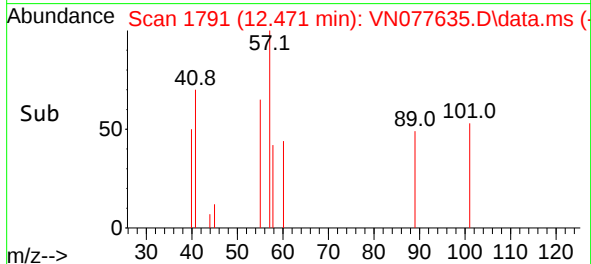
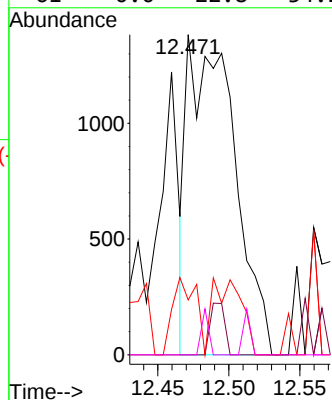
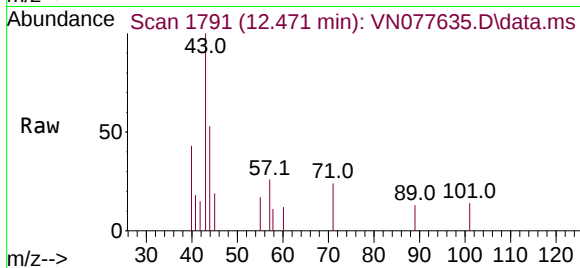




#74
N-amy1 acetate
Concen: 0.451 ug/l
RT: 12.471 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

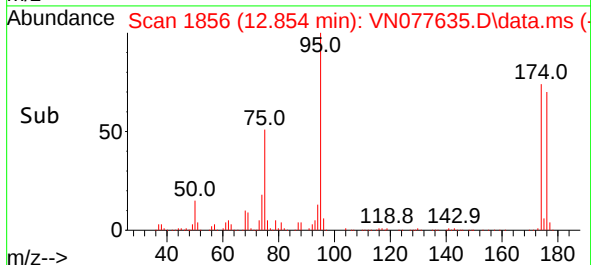
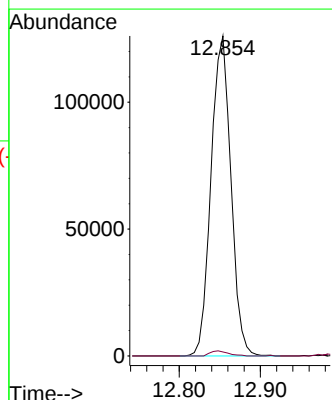
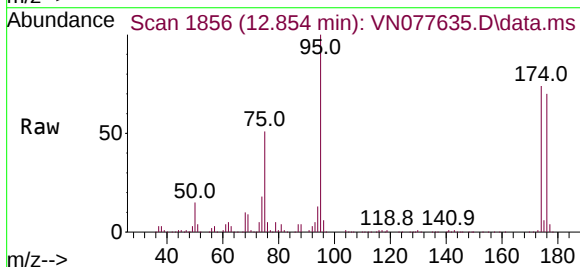
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

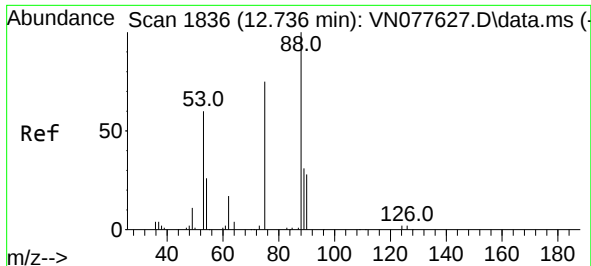
Tgt Ion: 43	Resp: 3181
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 11.9	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 29.041 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion: 75	Resp: 214503
Ion Ratio	Lower Upper
75 100	
77 1.4	84.5 253.5#

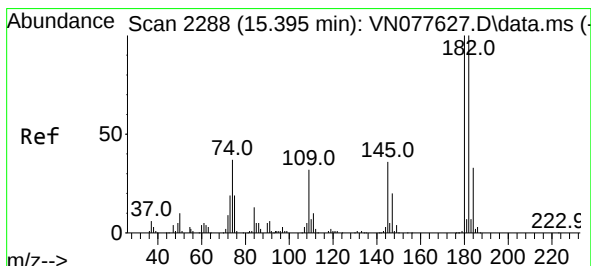
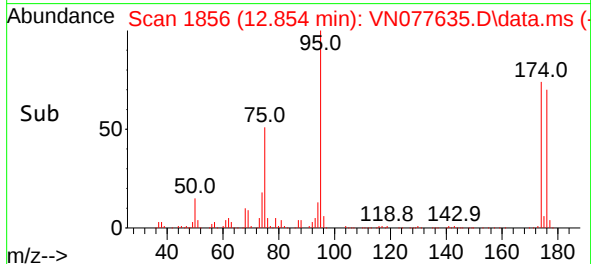
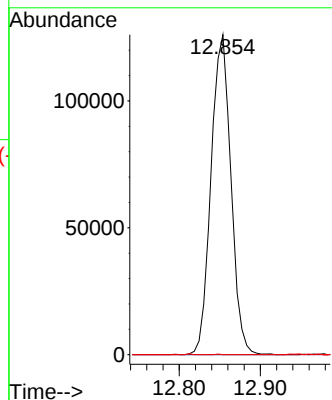
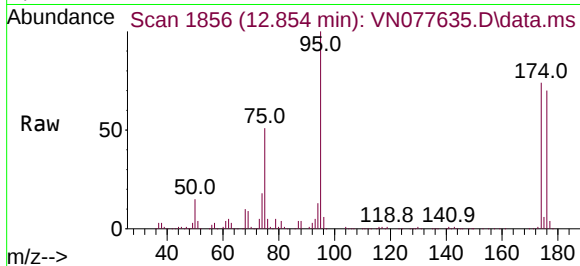




#81
trans-1,4-Dichloro-2-butene
Concen: 92.471 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

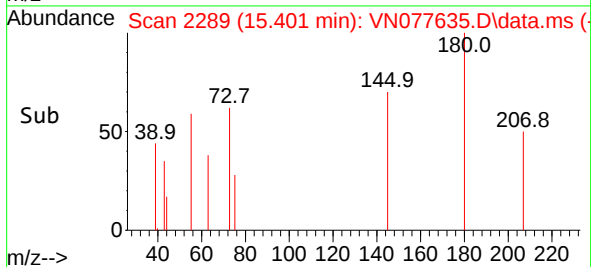
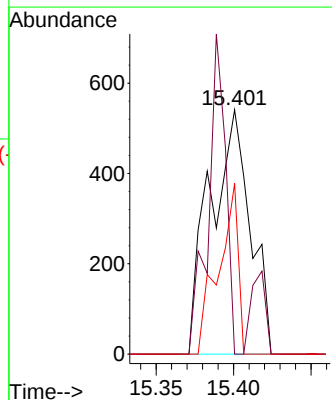
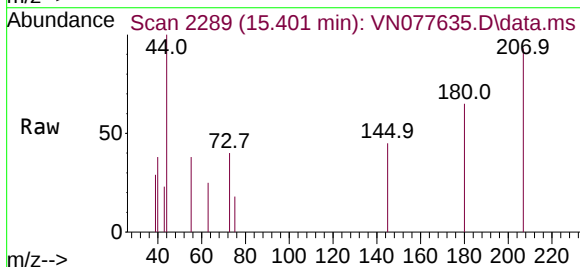
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

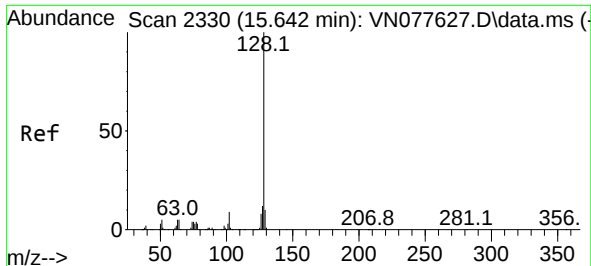
Tgt Ion: 75 Resp: 214503
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 4.751 ug/l
RT: 15.401 min Scan# 2289
Delta R.T. 0.006 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion: 180 Resp: 975
Ion Ratio Lower Upper
180 100
182 56.9 46.1 138.2
145 34.2 16.6 49.8

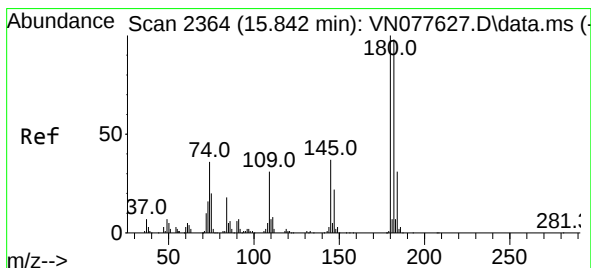
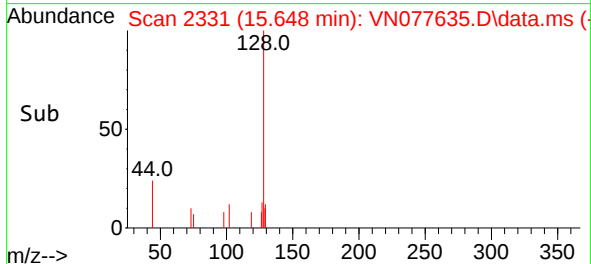
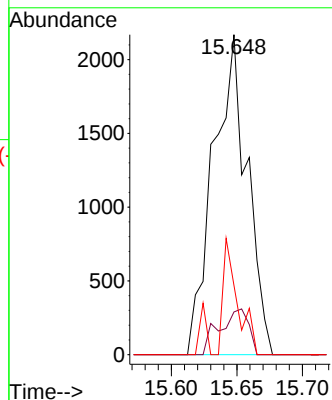
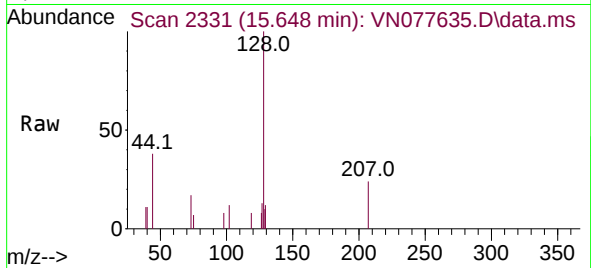




#95
Naphthalene
Concen: 4.933 ug/l
RT: 15.648 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#01

Tgt Ion:128 Resp: 3894
Ion Ratio Lower Upper
128 100
127 12.3 10.0 15.0
129 15.8 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.604 ug/l
RT: 15.842 min Scan# 2364
Delta R.T. -0.000 min
Lab File: VN077635.D
Acq: 09 May 2023 16:30

Tgt Ion:180 Resp: 559
Ion Ratio Lower Upper
180 100
182 142.2 46.2 138.6#
145 33.6 17.5 52.6

