

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041223\
 Data File : BM039408.D
 Acq On : 12 Apr 2023 18:01
 Operator : CG/JU
 Sample : 02268-01RE
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTERE

Quant Time: Apr 13 01:49:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 16:05:42 2023
 Response via : Initial Calibration

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

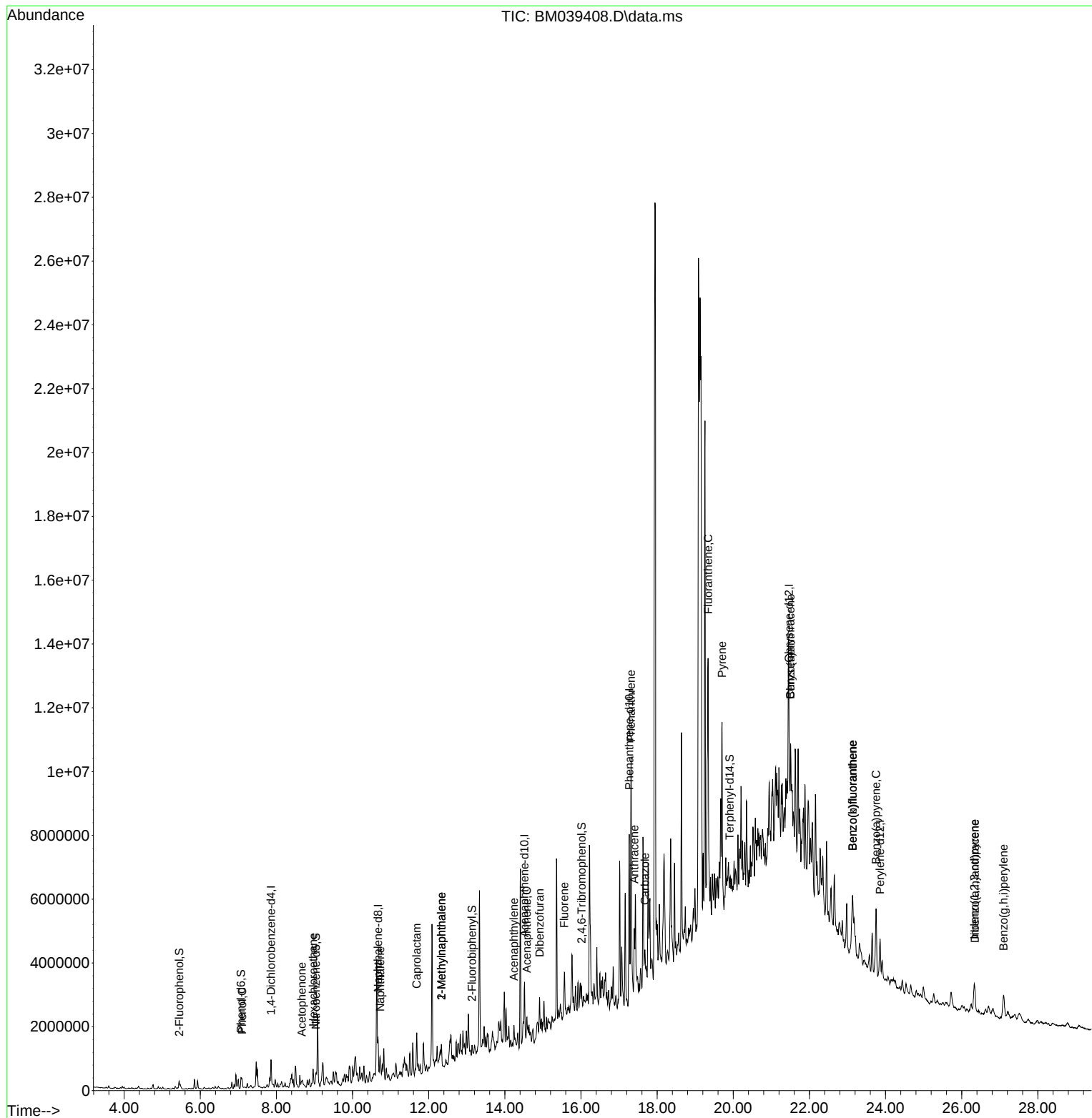
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.857	152	248209	20.000	ng	0.00
21) Naphthalene-d8	10.669	136	1009023	20.000	ng	# 0.00
39) Acenaphthene-d10	14.516	164	576555	20.000	ng	0.00
64) Phenanthrene-d10	17.268	188	1050774	20.000	ng	0.00
76) Chrysene-d12	21.462	240	801012	20.000	ng	# 0.00
86) Perylene-d12	23.856	264	1009830	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	124883	7.580	ng	0.02
7) Phenol-d6	7.069	99	130609	6.129	ng	0.04
23) Nitrobenzene-d5	9.034	82	160326	7.723	ng	0.00
42) 2,4,6-Tribromophenol	16.016	330	67455	9.217	ng	0.00
45) 2-Fluorobiphenyl	13.133	172	228436	5.368	ng	0.00
79) Terphenyl-d14	19.904	244	229358	5.290	ng	0.00
Target Compounds						
						Qvalue
10) Phenol	7.099	94	205148	9.607	ng	99
18) Hexachloroethane	8.969	117	49342	7.054	ng	# 1
22) Acetophenone	8.663	105	133529	4.949	ng	# 60
31) Naphthalene	10.722	128	420560	7.735	ng	# 96
35) Caprolactam	11.686	113	48562	9.038	ng	# 1
37) 2-Methylnaphthalene	12.333	142	408532	10.794	ng	98
38) 1-Methylnaphthalene	12.333	142	408532	11.527	ng	98
49) Acenaphthylene	14.239	152	383427	6.767	ng	# 94
52) Acenaphthene	14.580	154	272944	8.158	ng	97
55) Dibenzofuran	14.916	168	342585	6.360	ng	# 90
58) Fluorene	15.563	166	597025	13.998	ng	98
71) Phenanthrene	17.310	178	3413822	59.320	ng	99
72) Anthracene	17.398	178	1045955	17.824	ng	98
73) Carbazole	17.680	167	293765	5.357	ng	# 90
75) Fluoranthene	19.339	202	3742334	57.046	ng	96
78) Pyrene	19.704	202	3641496	63.860	ng	# 90
81) Benzo(a)anthracene	21.503	228	1455570	25.766	ng	93
83) Chrysene	21.503	228	1455570	26.690	ng	# 96
87) Indeno(1,2,3-cd)pyrene	26.333	276	966053	12.984	ng	96
88) Benzo(b)fluoranthene	23.133	252	1915388	30.999	ng	# 95
89) Benzo(k)fluoranthene	23.133	252	1915388	30.433	ng	# 95
90) Benzo(a)pyrene	23.750	252	1582059	26.064	ng	# 96
91) Dibenzo(a,h)anthracene	26.344	278	258501	4.138	ng	# 79
92) Benzo(g,h,i)perylene	27.097	276	971895	15.818	ng	98

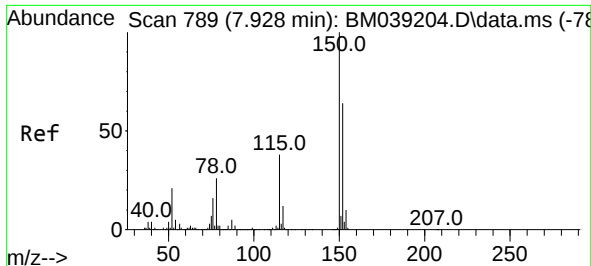
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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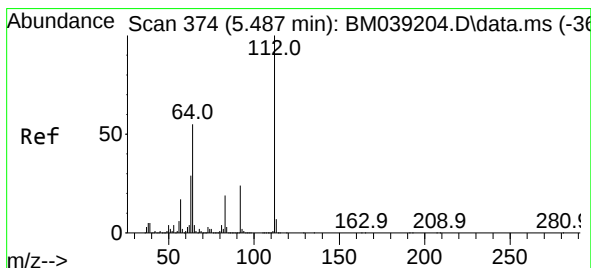
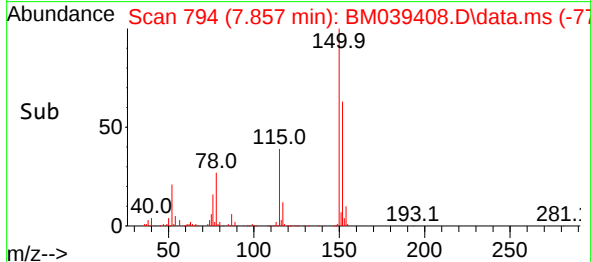
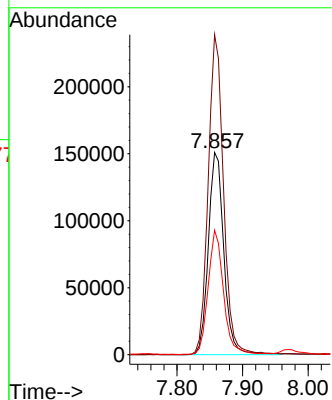
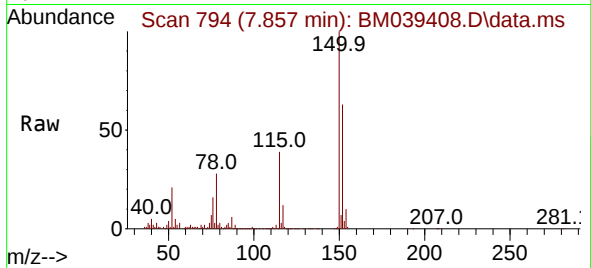




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.857 min Scan# 794
 Delta R.T. -0.006 min
 Lab File: BM039408.D
 Acq: 12 Apr 2023 18:01

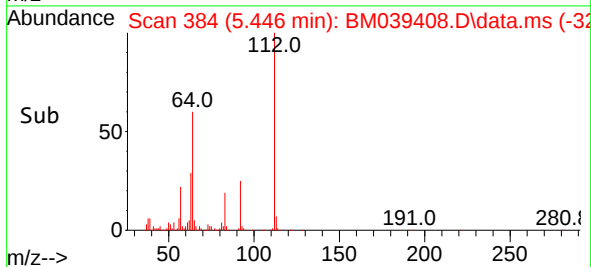
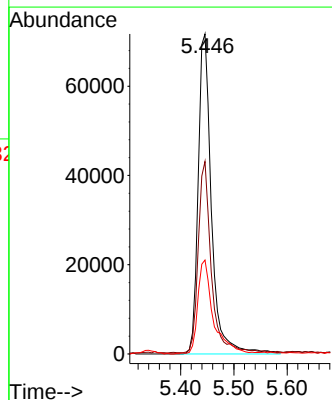
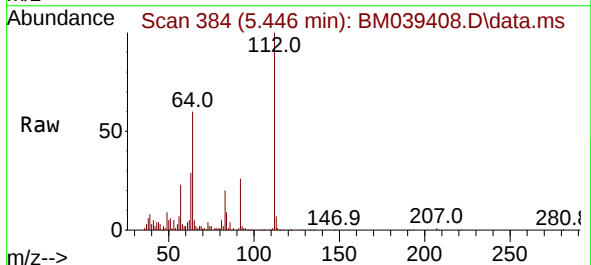
Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTERE

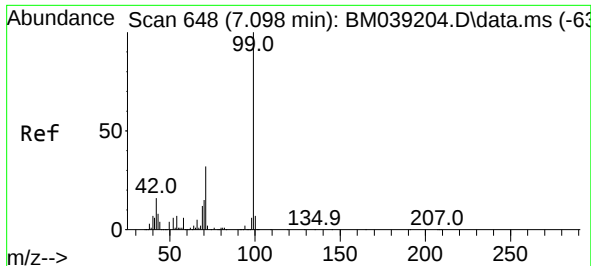
Tgt Ion:152 Resp: 248209
 Ion Ratio Lower Upper
 152 100
 150 158.2 125.5 188.3
 115 61.6 48.1 72.1



#5
 2-Fluorophenol
 Concen: 7.580 ng
 RT: 5.446 min Scan# 384
 Delta R.T. 0.024 min
 Lab File: BM039408.D
 Acq: 12 Apr 2023 18:01

Tgt Ion:112 Resp: 124883
 Ion Ratio Lower Upper
 112 100
 64 60.2 44.3 66.5
 63 29.3 23.0 34.6

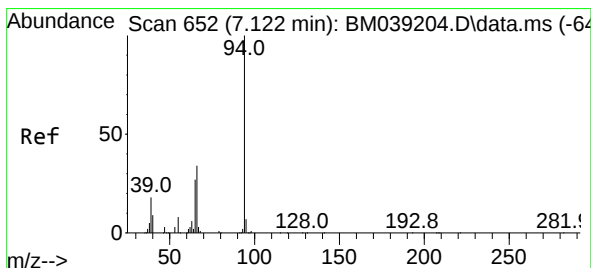
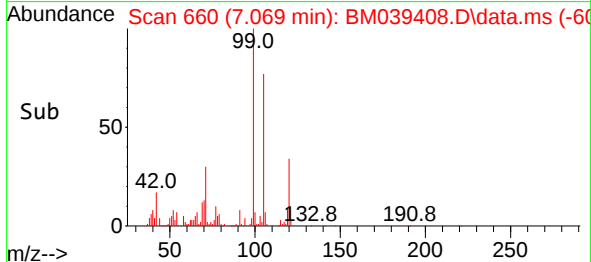
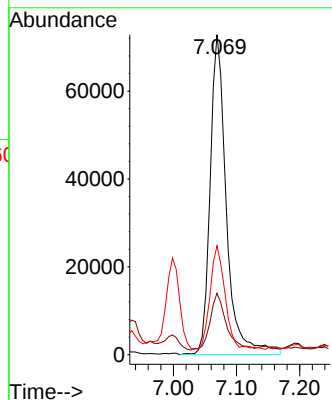
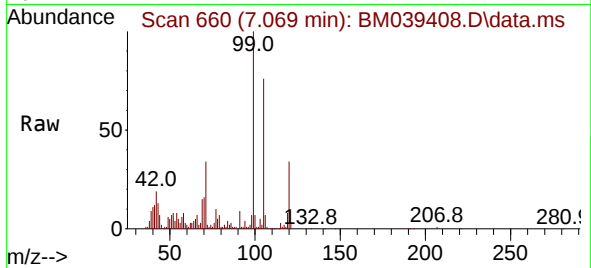




#7
Phenol-d6
Concen: 6.129 ng
RT: 7.069 min Scan# 609
Delta R.T. 0.035 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

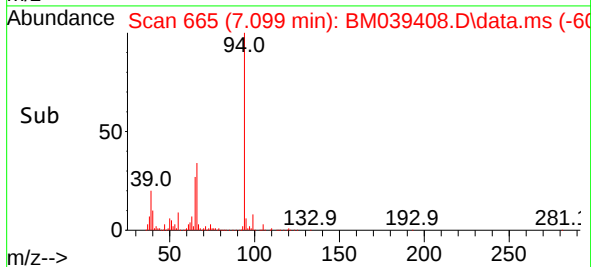
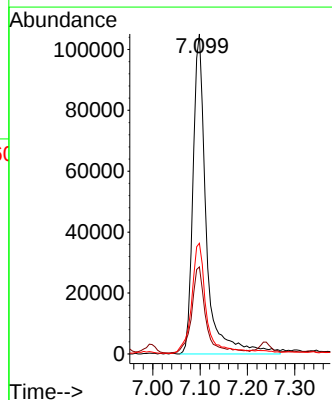
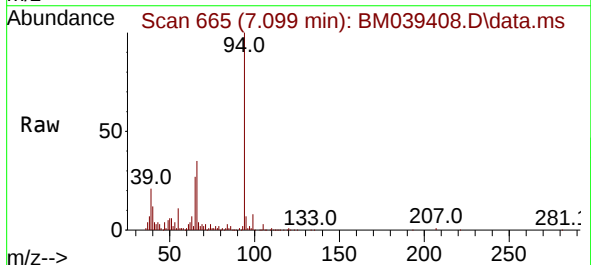
Instrument :
BNA_M
ClientSampleId :
50002-TOTERE

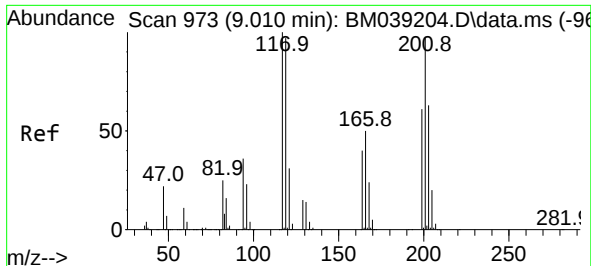
Tgt Ion: 99 Resp: 130609
Ion Ratio Lower Upper
99 100
42 19.2 13.0 19.6
71 34.1 25.5 38.3



#10
Phenol
Concen: 9.607 ng
RT: 7.099 min Scan# 665
Delta R.T. 0.035 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion: 94 Resp: 205148
Ion Ratio Lower Upper
94 100
65 27.2 7.2 47.2
66 34.6 15.2 55.2

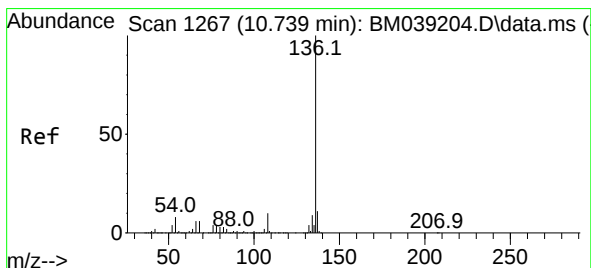
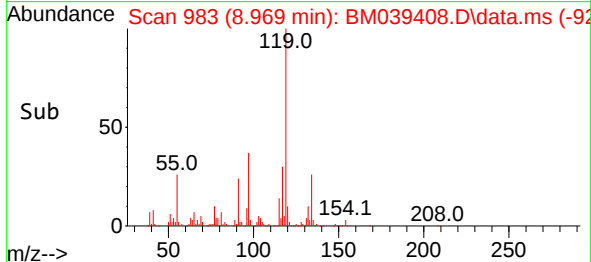
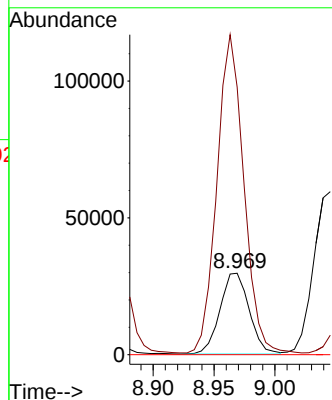
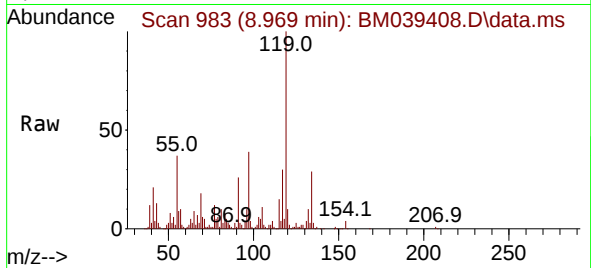




#18
Hexachloroethane
Concen: 7.054 ng
RT: 8.969 min Scan# 91
Delta R.T. 0.030 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

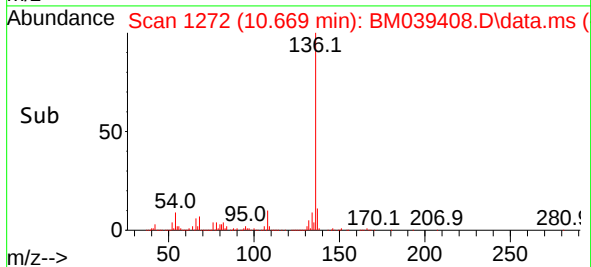
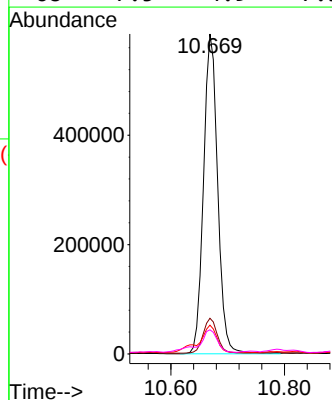
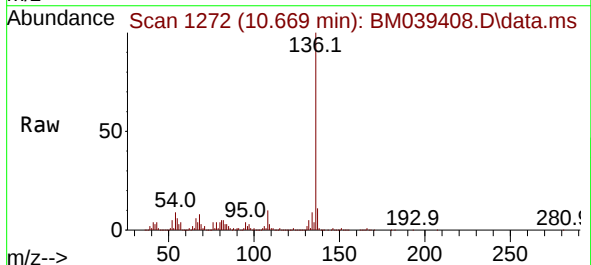
Instrument :
BNA_M
ClientSampleId :
50002-TOTERE

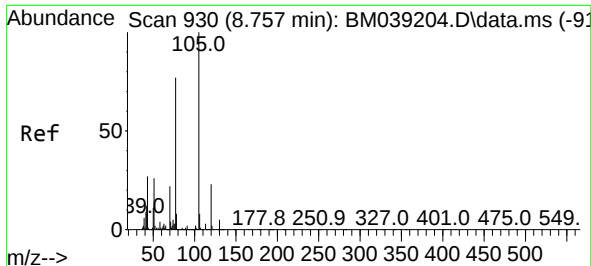
Tgt Ion:117 Resp: 49342
Ion Ratio Lower Upper
117 100
119 328.8 77.8 116.8#
201 0.0 77.3 115.9#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.669 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion:136 Resp: 1009023
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 9.0 6.2 9.4
68 7.5 4.9 7.3#

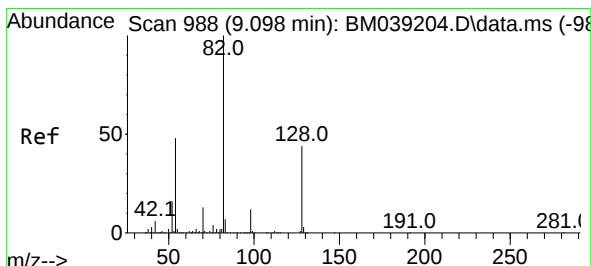
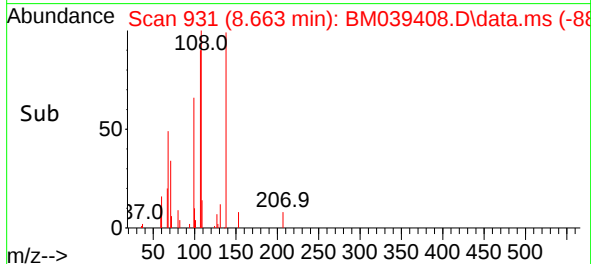
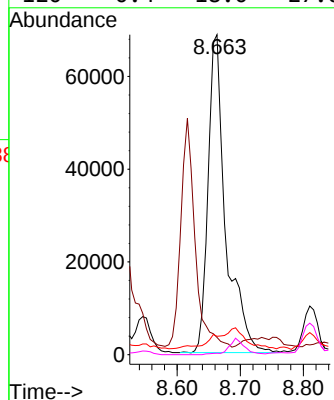
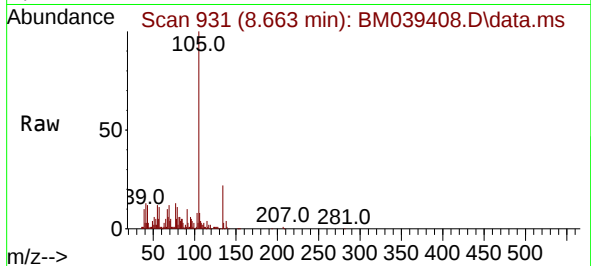




#22
Acetophenone
Concen: 4.949 ng
RT: 8.663 min Scan# 911
Delta R.T. -0.035 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

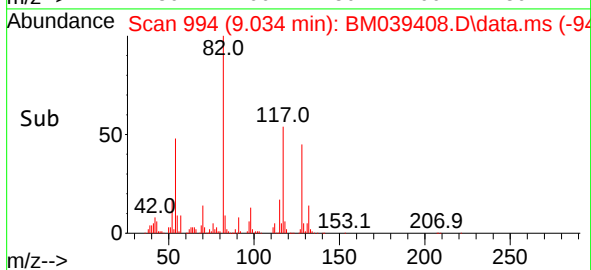
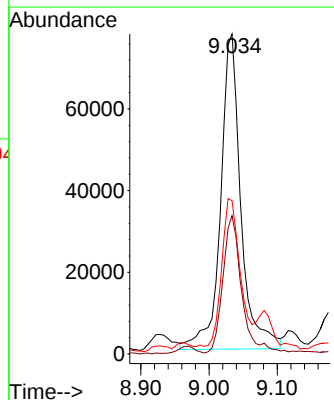
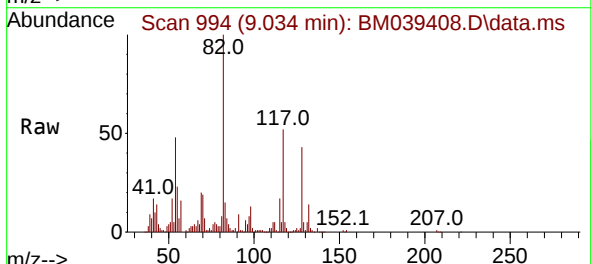
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ClientSampleId :
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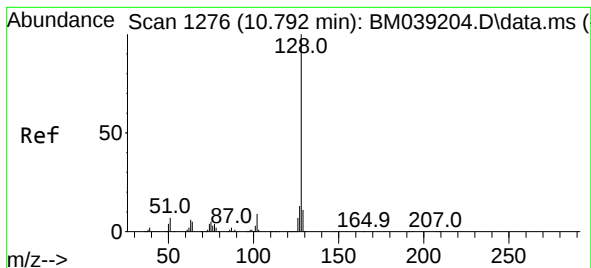
Tgt Ion:105 Resp: 133529
Ion Ratio Lower Upper
105 100
71 5.4 2.8 4.2#
51 5.8 20.6 31.0#
120 0.4 18.0 27.0#



#23
Nitrobenzene-d5
Concen: 7.723 ng
RT: 9.034 min Scan# 994
Delta R.T. 0.000 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion: 82 Resp: 160326
Ion Ratio Lower Upper
82 100
128 43.2 35.1 52.7
54 47.9 38.5 57.7

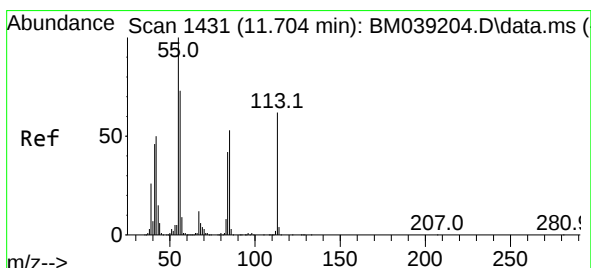
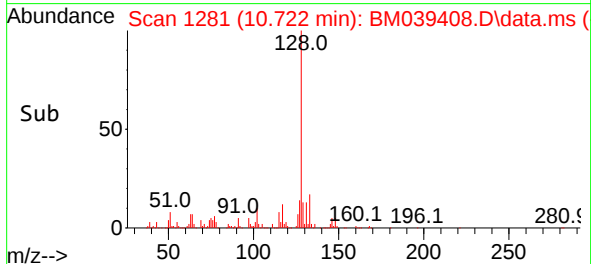
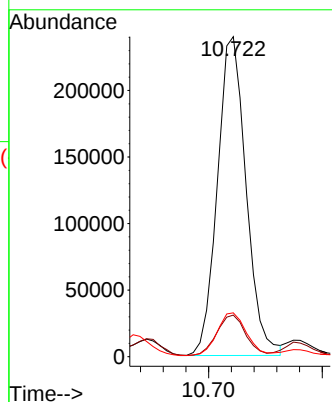
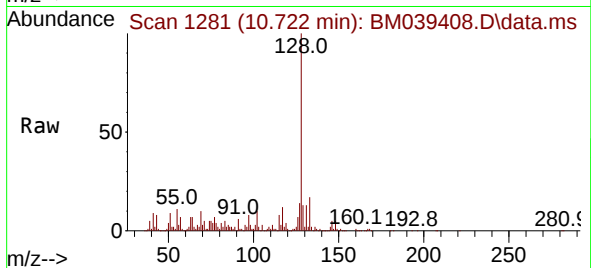




#31
Naphthalene
Concen: 7.735 ng
RT: 10.722 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

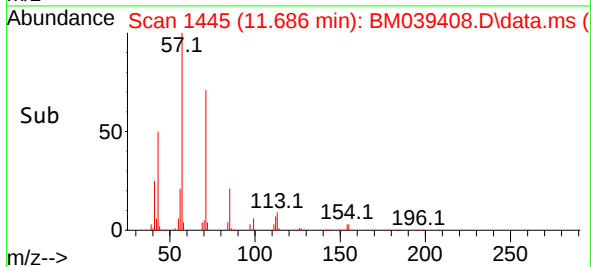
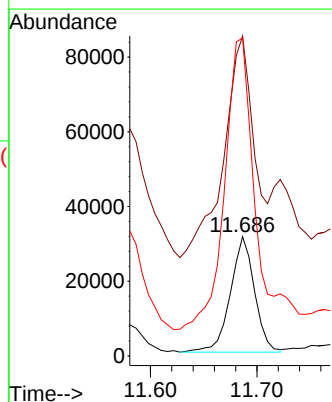
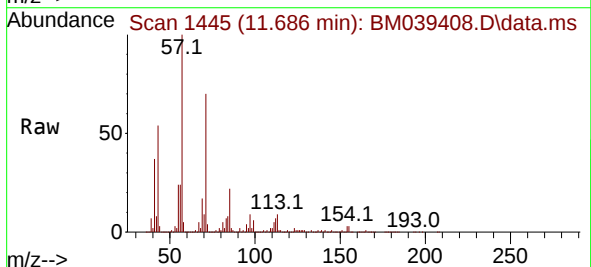
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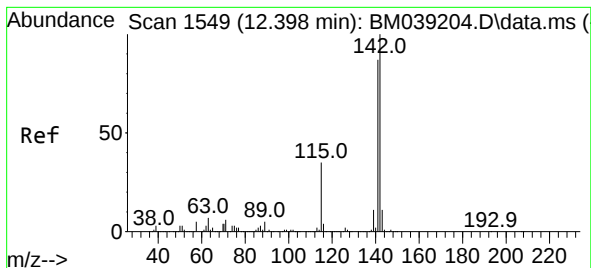
Tgt Ion:128 Resp: 420560
Ion Ratio Lower Upper
128 100
129 13.0 8.6 13.0#
127 13.7 10.3 15.5



#35
Caprolactam
Concen: 9.038 ng
RT: 11.686 min Scan# 1445
Delta R.T. 0.035 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion:113 Resp: 48562
Ion Ratio Lower Upper
113 100
55 268.2 141.8 181.8#
56 266.4 98.3 138.3#

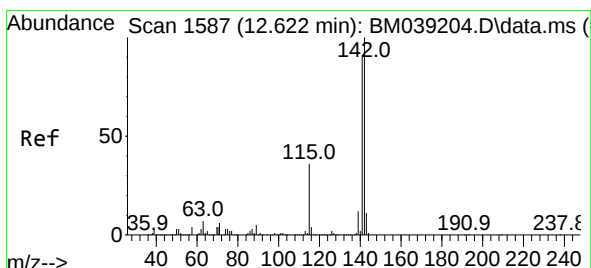
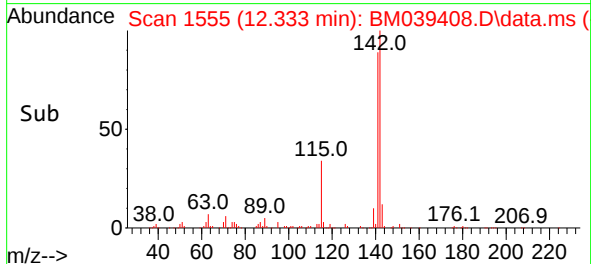
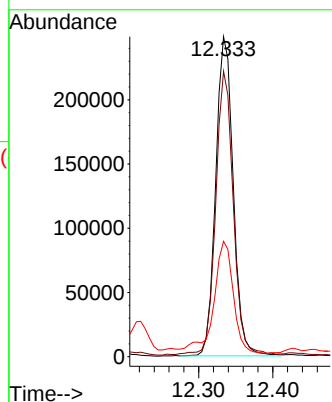
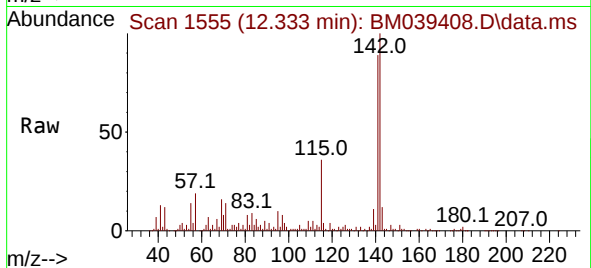




#37
2-Methylnaphthalene
Concen: 10.794 ng
RT: 12.333 min Scan# 1555
Delta R.T. -0.006 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

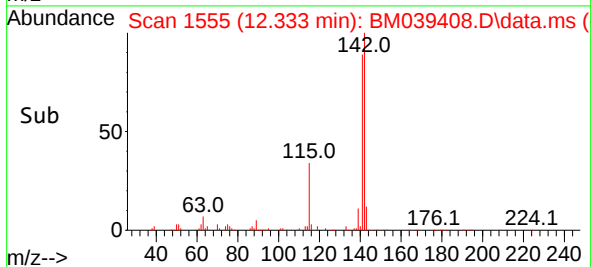
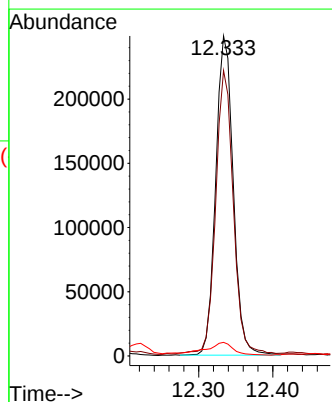
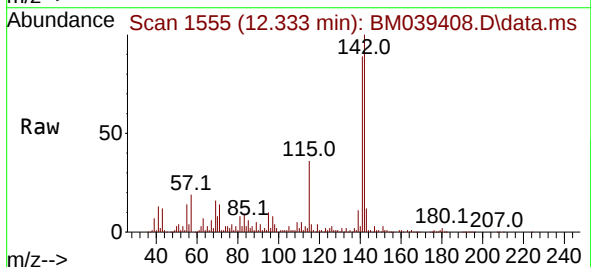
Instrument :
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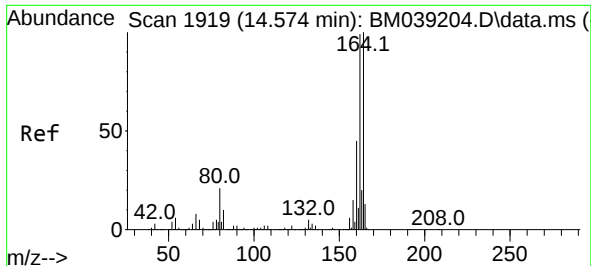
Tgt Ion:142 Resp: 408532
Ion Ratio Lower Upper
142 100
141 89.2 69.8 104.8
115 36.0 27.8 41.8



#38
1-Methylnaphthalene
Concen: 11.527 ng
RT: 12.333 min Scan# 1555
Delta R.T. -0.223 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion:142 Resp: 408532
Ion Ratio Lower Upper
142 100
141 89.2 73.2 109.8
116 4.2 3.0 4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.516 min Scan# 1919

Delta R.T. 0.000 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Instrument :

BNA_M

ClientSampleId :

50002-TOTERE

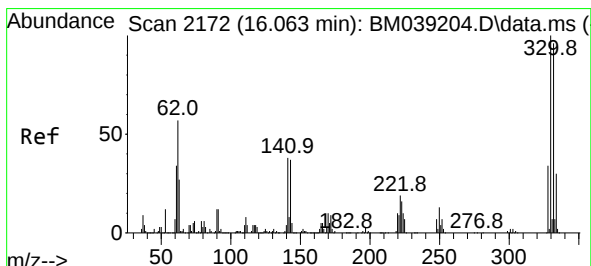
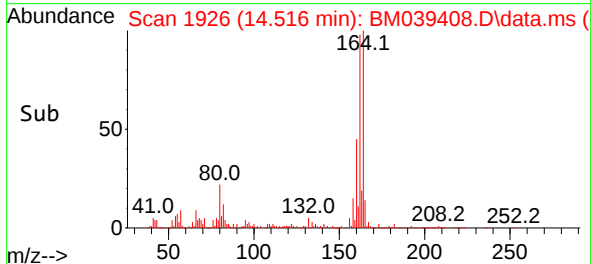
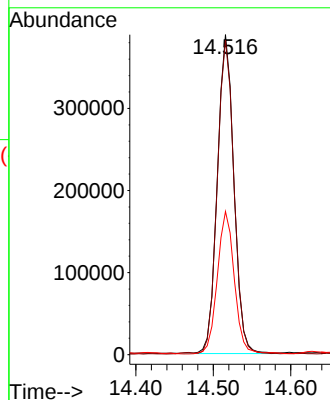
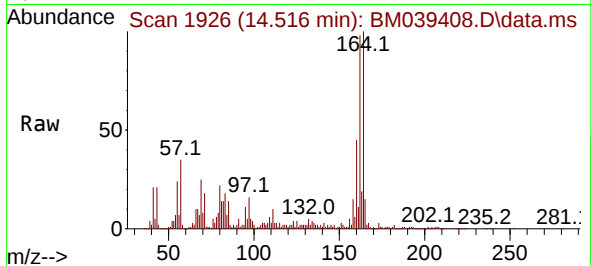
Tgt Ion:164 Resp: 576555

Ion Ratio Lower Upper

164 100

162 98.4 79.1 118.7

160 44.8 35.8 53.8



#42

2,4,6-Tribromophenol

Concen: 9.217 ng

RT: 16.016 min Scan# 2181

Delta R.T. 0.000 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

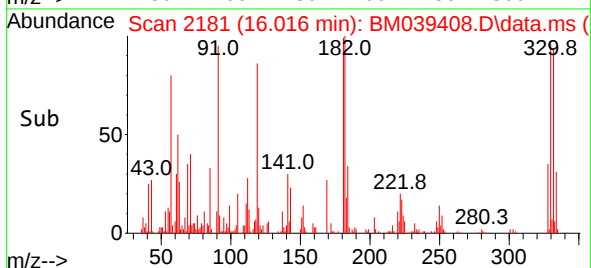
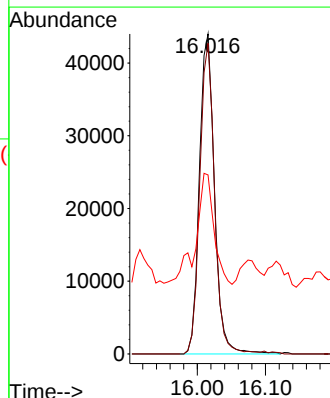
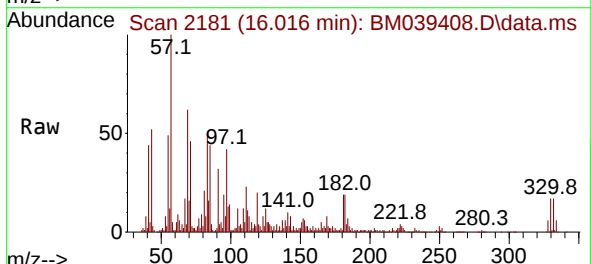
Tgt Ion:330 Resp: 67455

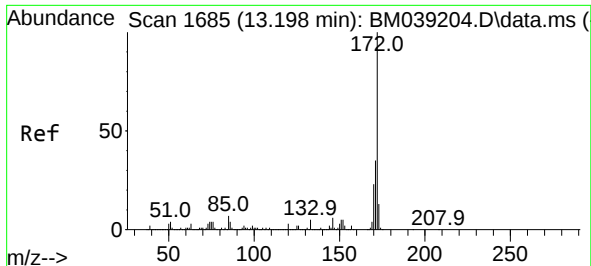
Ion Ratio Lower Upper

330 100

332 95.2 77.4 116.0

141 41.5 29.8 44.6

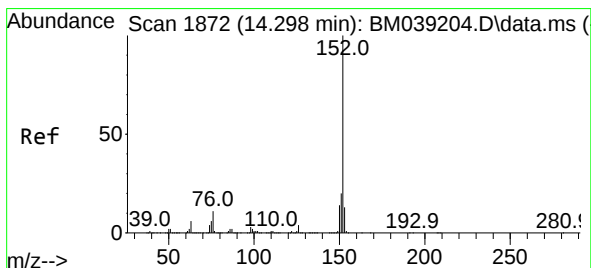
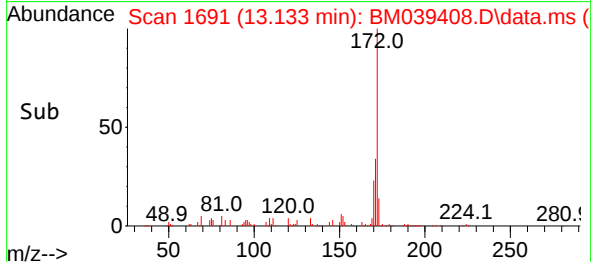
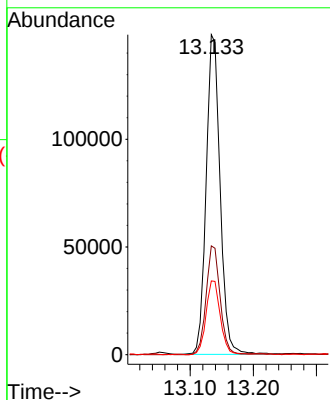
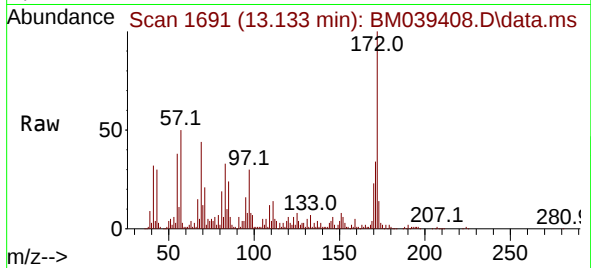




#45
2-Fluorobiphenyl
Concen: 5.368 ng
RT: 13.133 min Scan# 1691
Delta R.T. -0.006 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

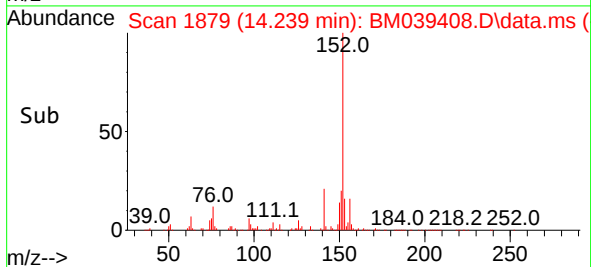
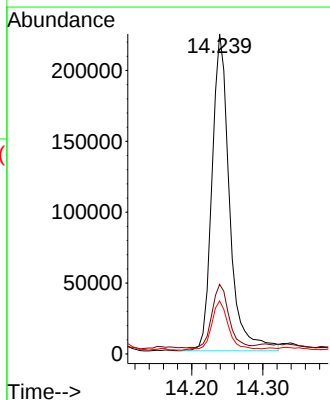
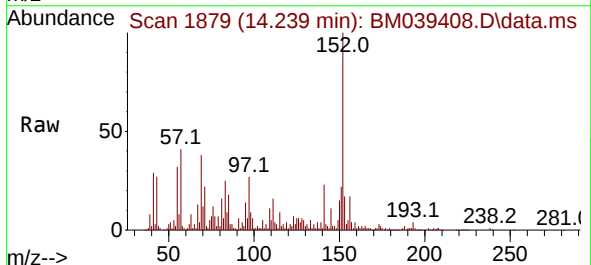
Instrument :
BNA_M
ClientSampleId :
50002-TOTERE

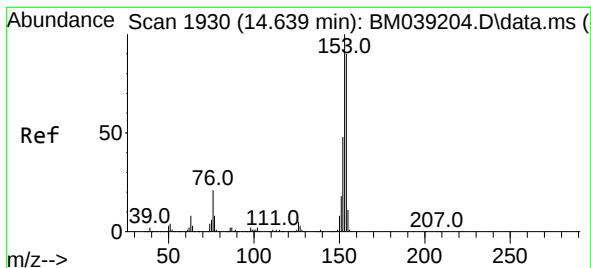
Tgt Ion:172 Resp: 228436
Ion Ratio Lower Upper
172 100
171 34.0 28.0 42.0
170 23.1 18.7 28.1



#49
Acenaphthylene
Concen: 6.767 ng
RT: 14.239 min Scan# 1879
Delta R.T. 0.000 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion:152 Resp: 383427
Ion Ratio Lower Upper
152 100
151 21.8 15.7 23.5
153 16.5 10.3 15.5#





#52

Acenaphthene

Concen: 8.158 ng

RT: 14.580 min Scan# 1937

Delta R.T. -0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Instrument :

BNA_M

ClientSampleId :

50002-TOTERE

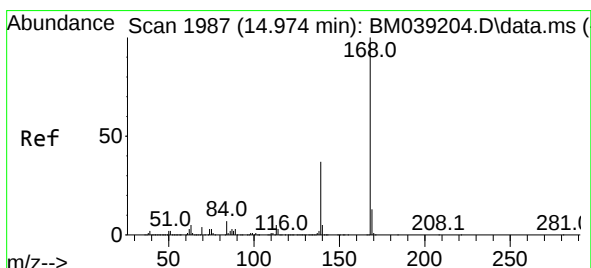
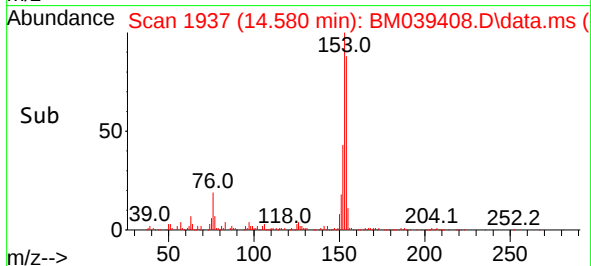
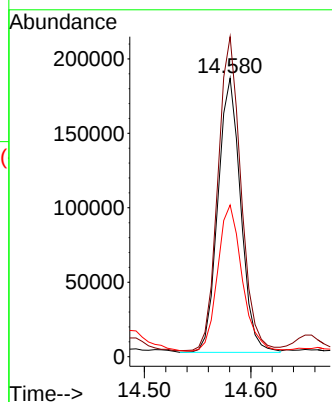
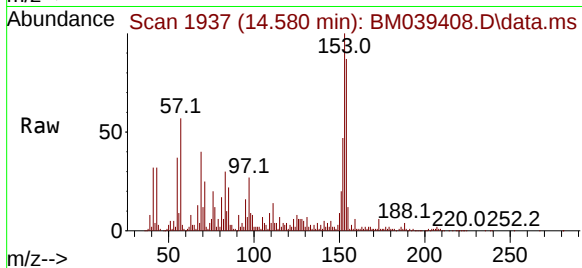
Tgt Ion:154 Resp: 272944

Ion Ratio Lower Upper

154 100

153 114.9 89.1 133.7

152 54.4 42.6 64.0



#55

Dibenzofuran

Concen: 6.360 ng

RT: 14.916 min Scan# 1994

Delta R.T. 0.000 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

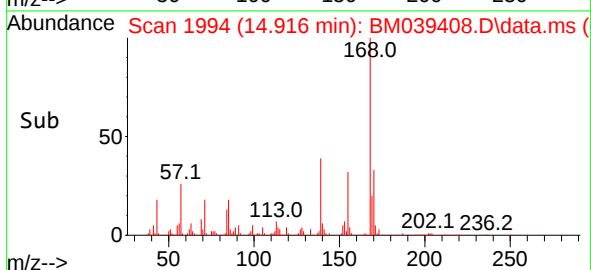
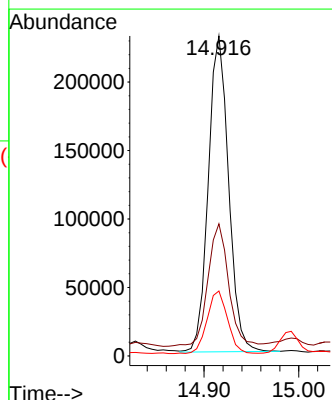
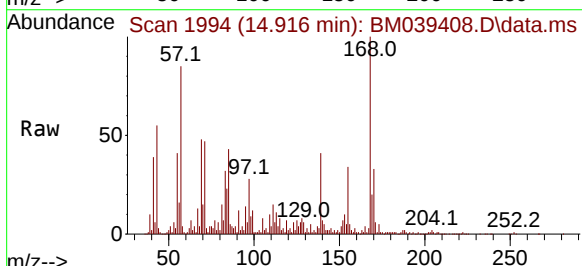
Tgt Ion:168 Resp: 342585

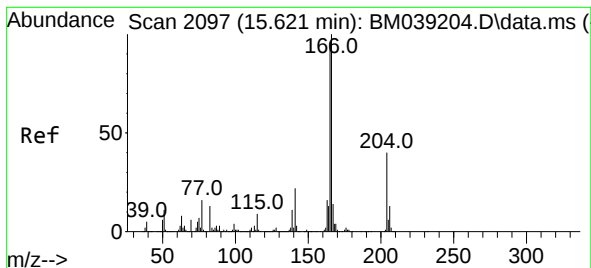
Ion Ratio Lower Upper

168 100

139 41.3 29.4 44.2

169 20.3 10.6 15.8#





#58

Fluorene

Concen: 13.998 ng

RT: 15.563 min Scan# 2104

Delta R.T. -0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Instrument :

BNA_M

ClientSampleId :

50002-TOTERE

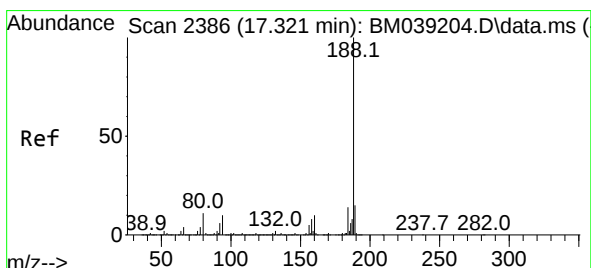
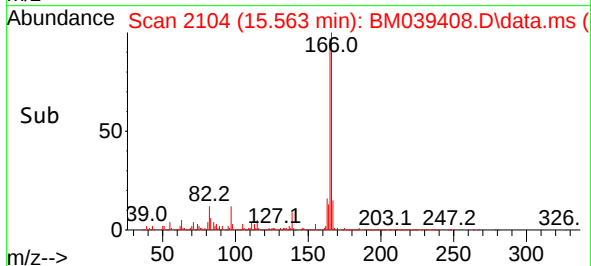
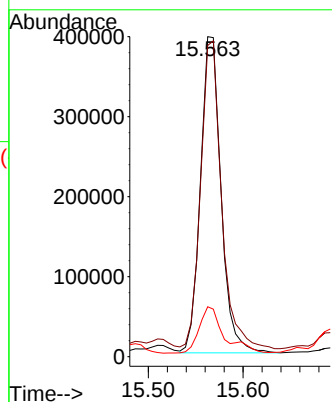
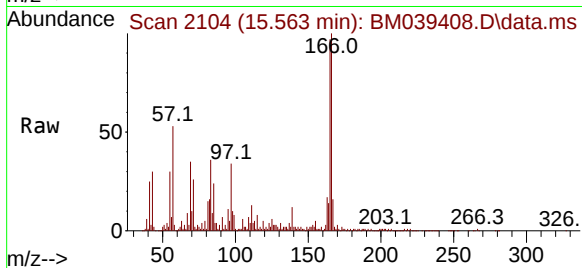
Tgt Ion:166 Resp: 597025

Ion Ratio Lower Upper

166 100

165 97.3 76.9 115.3

167 15.6 10.8 16.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.268 min Scan# 2394

Delta R.T. 0.000 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

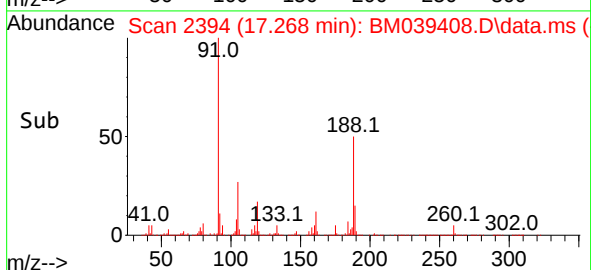
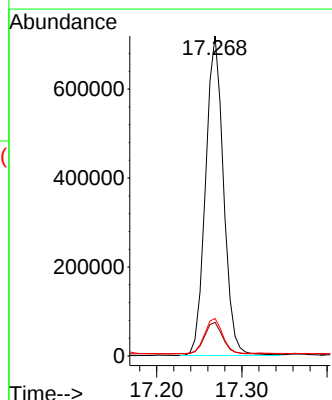
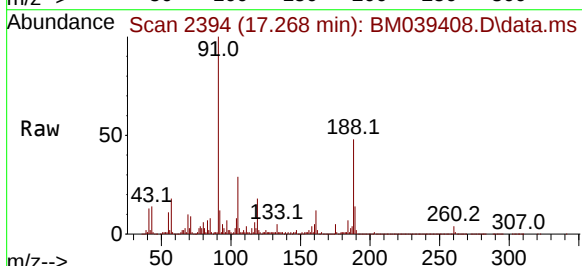
Tgt Ion:188 Resp: 1050774

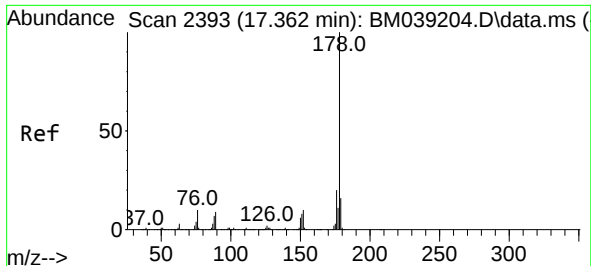
Ion Ratio Lower Upper

188 100

94 10.5 8.2 12.4

80 11.7 8.9 13.3

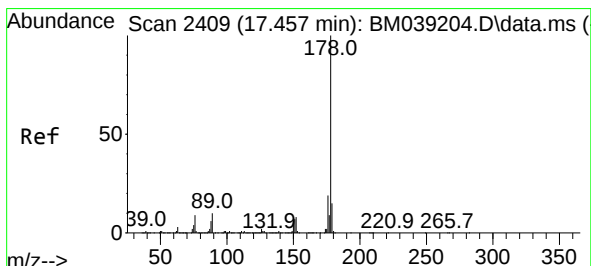
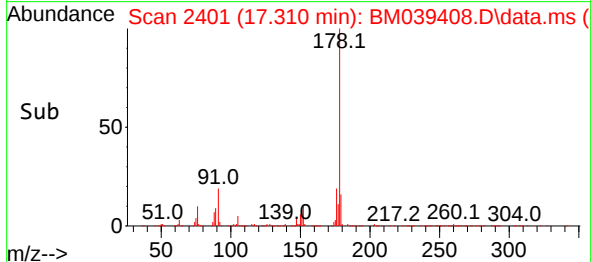
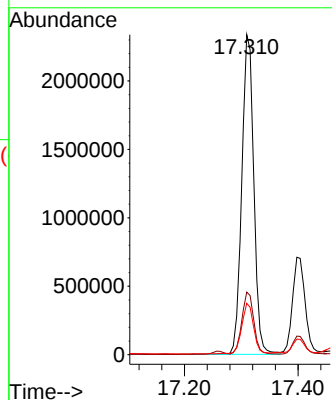
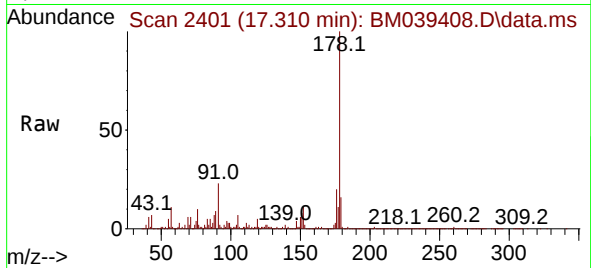




#71
Phenanthrene
Concen: 59.320 ng
RT: 17.310 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

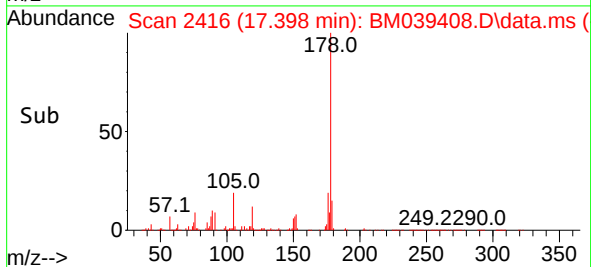
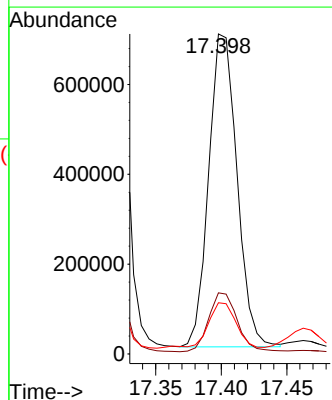
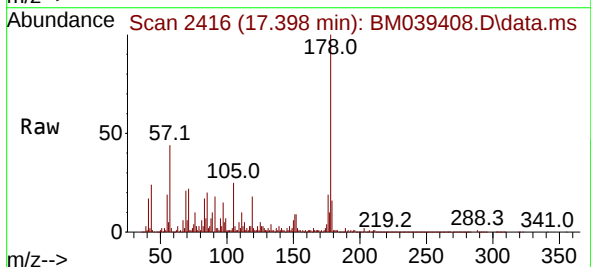
Instrument :
BNA_M
ClientSampleId :
50002-TOTERE

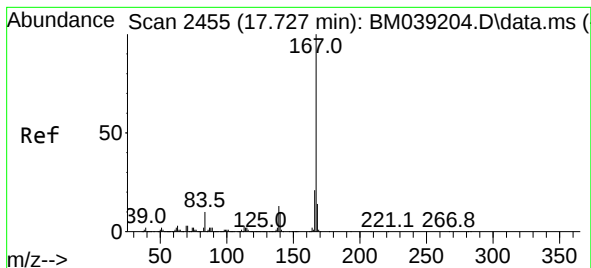
Tgt Ion:178 Resp: 3413822
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 16.0 12.4 18.6



#72
Anthracene
Concen: 17.824 ng
RT: 17.398 min Scan# 2416
Delta R.T. -0.006 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion:178 Resp: 1045955
Ion Ratio Lower Upper
178 100
176 19.1 14.9 22.3
179 16.0 12.2 18.2





#73

Carbazole

Concen: 5.357 ng

RT: 17.680 min Scan# 2455

Delta R.T. 0.000 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Instrument :

BNA_M

ClientSampleId :

50002-TOTERE

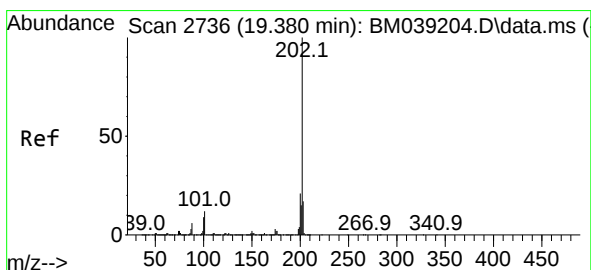
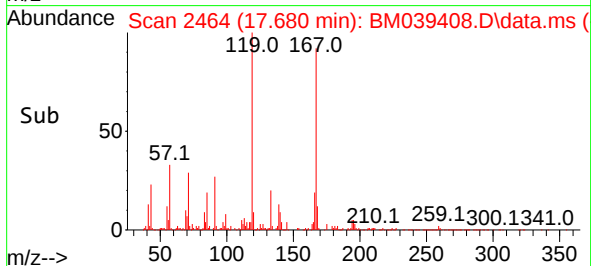
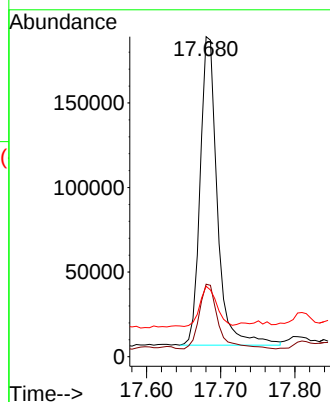
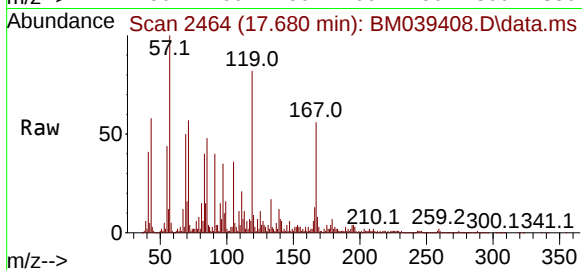
Tgt Ion:167 Resp: 293765

Ion Ratio Lower Upper

167 100

166 22.6 17.2 25.8

139 22.0 10.6 16.0#



#75

Fluoranthene

Concen: 57.046 ng

RT: 19.339 min Scan# 2746

Delta R.T. 0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

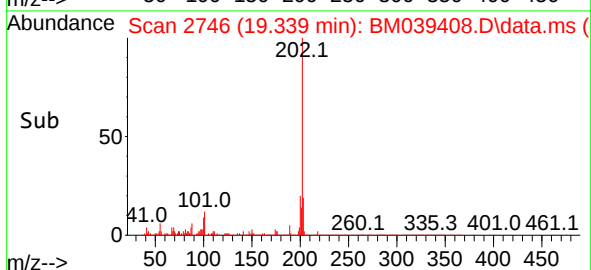
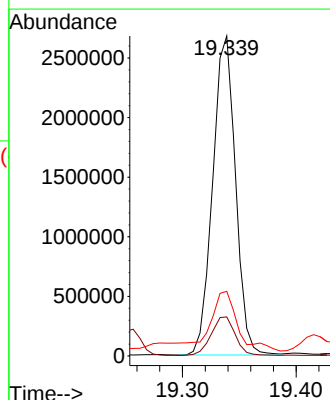
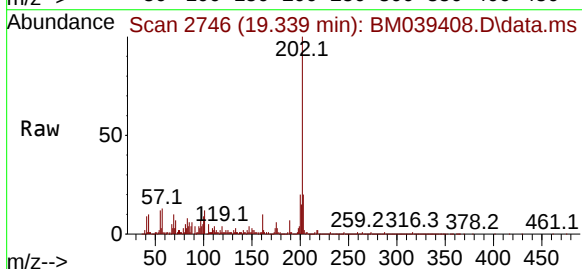
Tgt Ion:202 Resp: 3742334

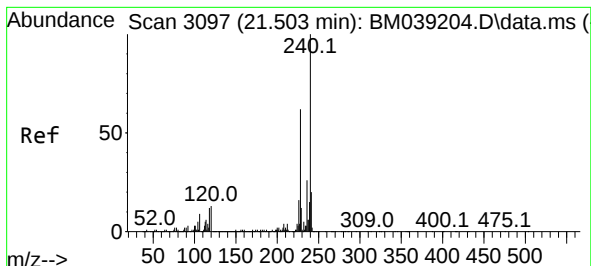
Ion Ratio Lower Upper

202 100

101 12.2 0.0 32.5

203 20.2 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.462 min Scan# 31

Delta R.T. 0.000 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Instrument :

BNA_M

ClientSampleId :

50002-TOTERE

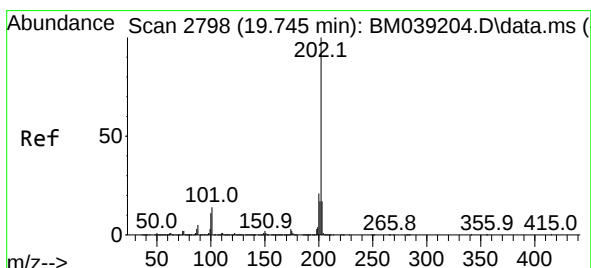
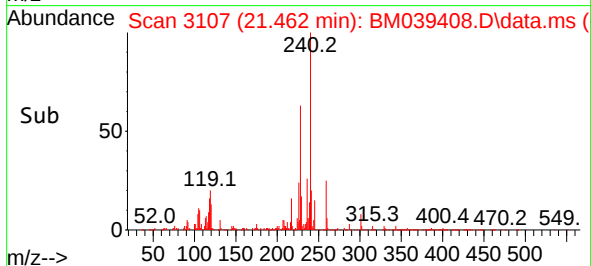
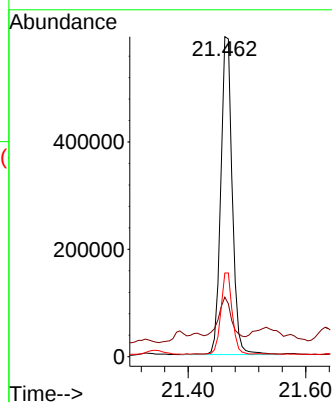
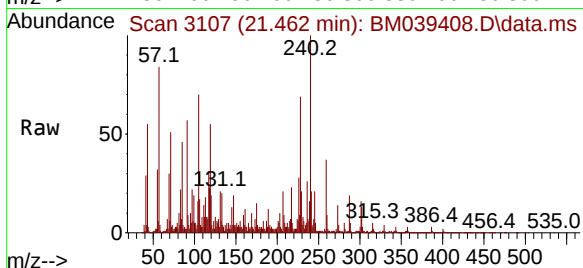
Tgt Ion:240 Resp: 801012

Ion Ratio Lower Upper

240 100

120 18.6 10.2 15.2#

236 26.2 20.9 31.3



#78

Pyrene

Concen: 63.860 ng

RT: 19.704 min Scan# 2808

Delta R.T. 0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

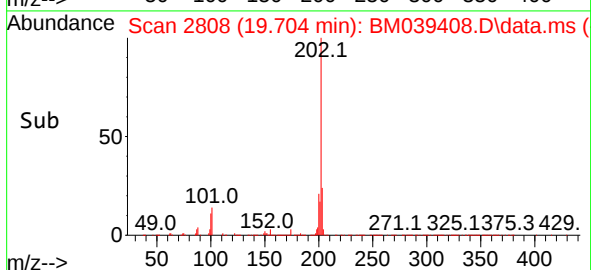
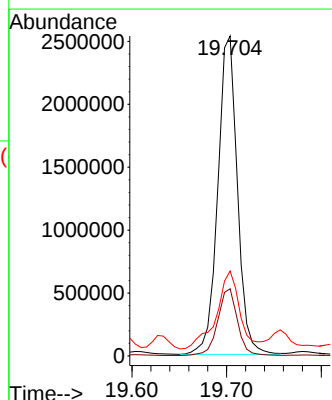
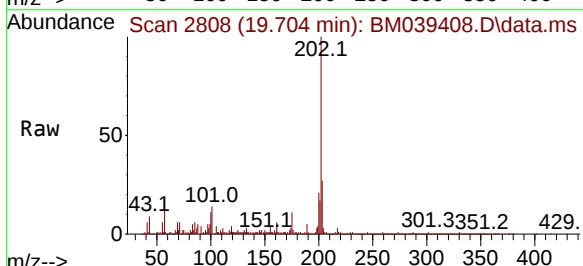
Tgt Ion:202 Resp: 3641496

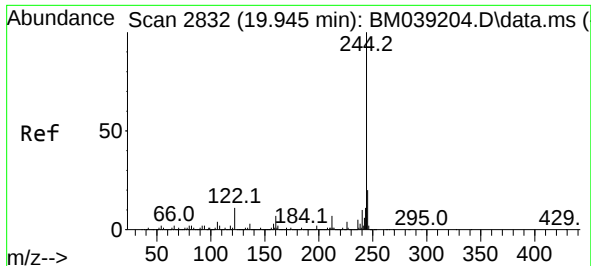
Ion Ratio Lower Upper

202 100

200 21.0 17.1 25.7

203 26.5 13.9 20.9#

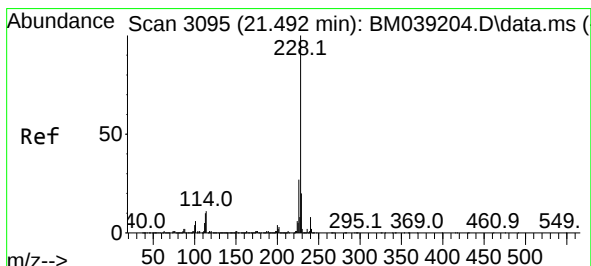
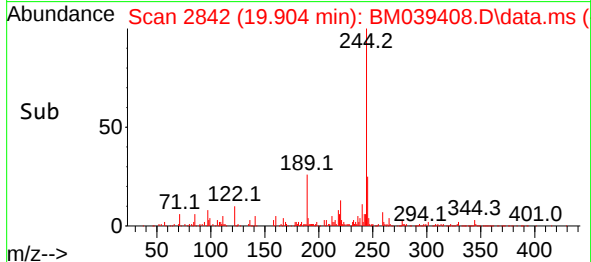
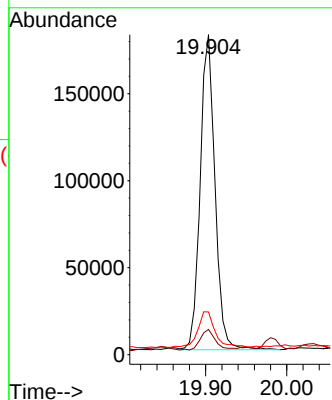
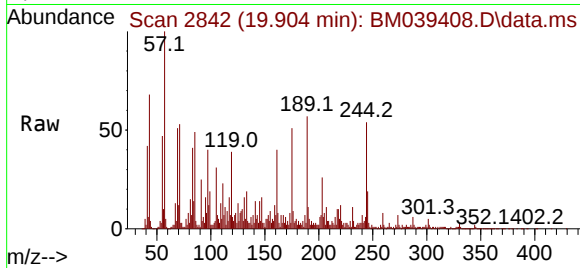




#79
 Terphenyl-d14
 Concen: 5.290 ng
 RT: 19.904 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BM039408.D
 Acq: 12 Apr 2023 18:01

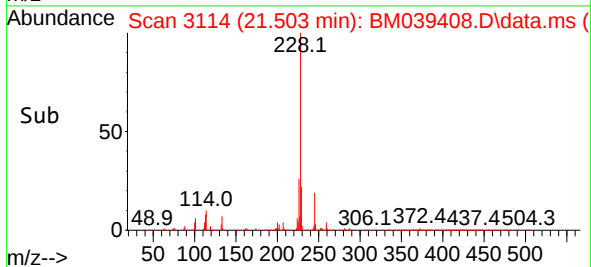
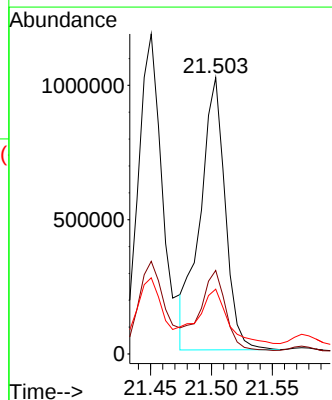
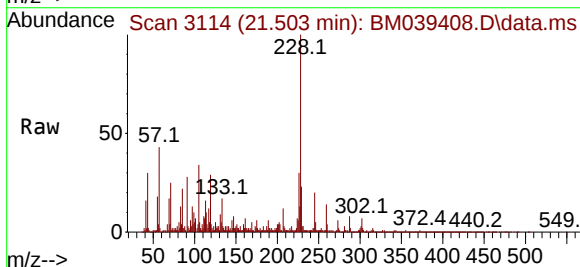
Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTERE

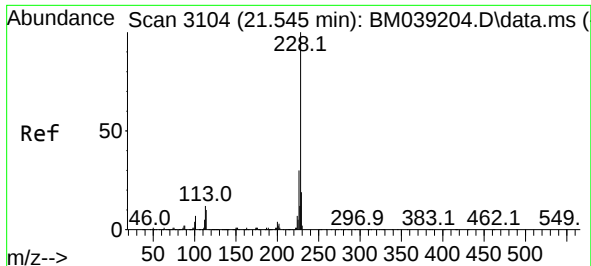
Tgt Ion:244 Resp: 229358
 Ion Ratio Lower Upper
 244 100
 212 7.9 5.6 8.4
 122 13.3 9.1 13.7



#81
 Benzo(a)anthracene
 Concen: 25.766 ng
 RT: 21.503 min Scan# 3114
 Delta R.T. 0.059 min
 Lab File: BM039408.D
 Acq: 12 Apr 2023 18:01

Tgt Ion:228 Resp: 1455570
 Ion Ratio Lower Upper
 228 100
 226 30.2 21.9 32.9
 229 23.4 15.8 23.6

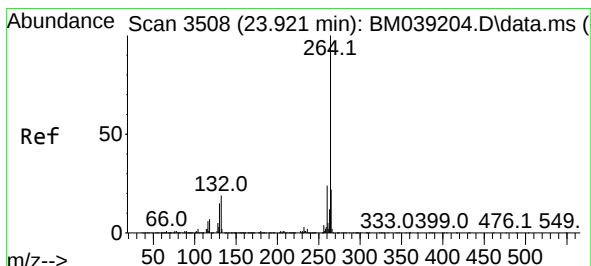
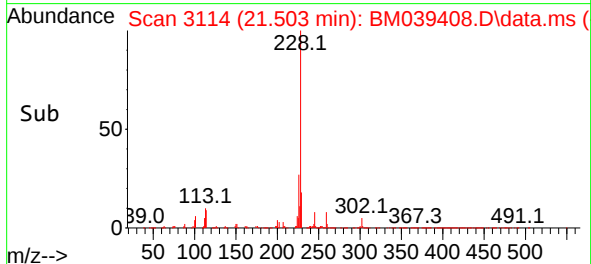
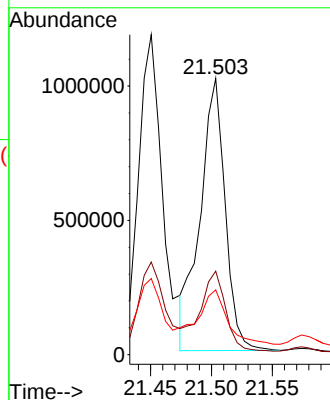
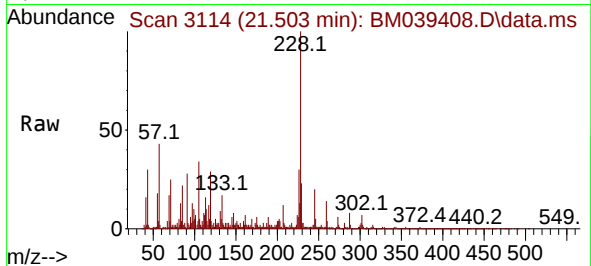




#83
Chrysene
Concen: 26.690 ng
RT: 21.503 min Scan# 3104
Delta R.T. 0.000 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

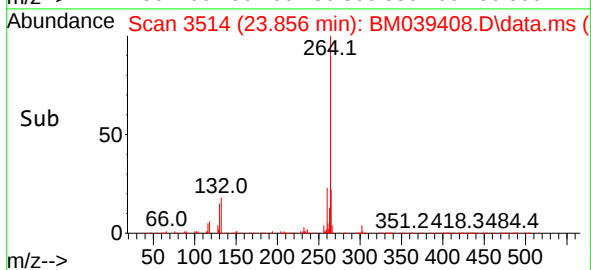
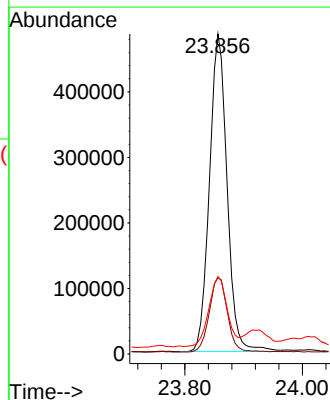
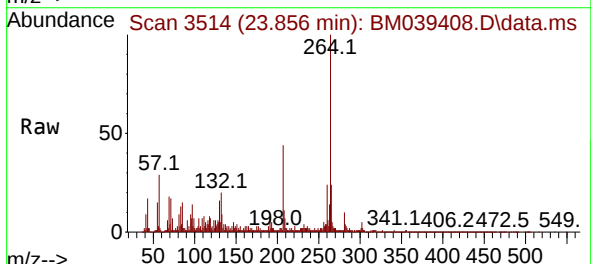
Instrument :
BNA_M
ClientSampleId :
50002-TOTERE

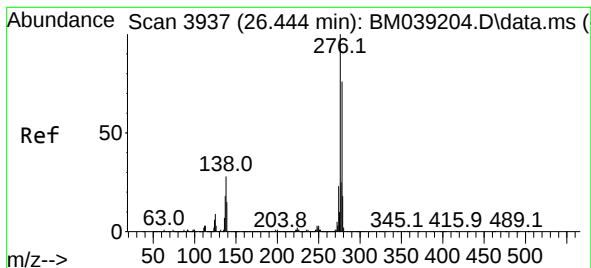
Tgt Ion:228 Resp: 1455570
Ion Ratio Lower Upper
228 100
226 30.2 24.1 36.1
229 23.4 15.5 23.3#



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.856 min Scan# 3514
Delta R.T. 0.006 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion:264 Resp: 1009830
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.6
265 24.2 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 12.984 ng

RT: 26.333 min Scan# 3391

Delta R.T. -0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Instrument :

BNA_M

ClientSampleId :

50002-TOTERE

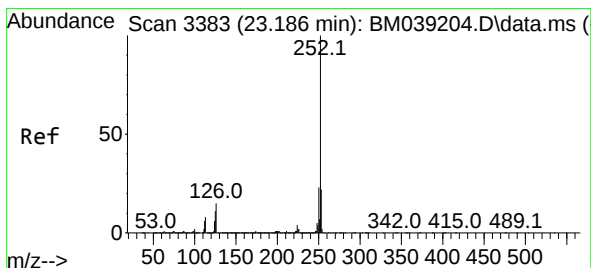
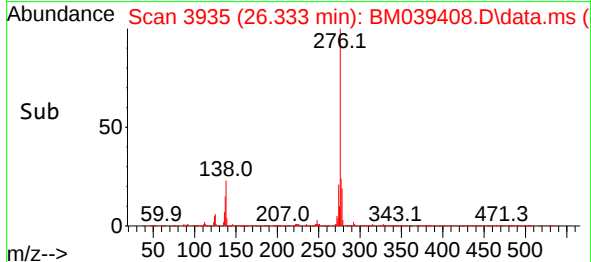
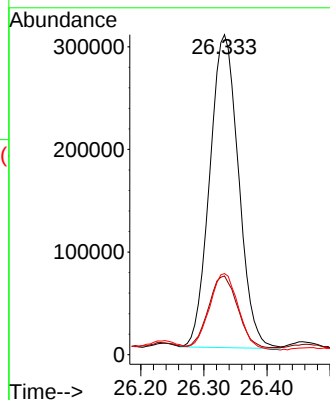
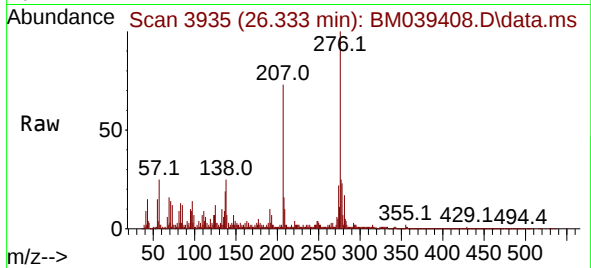
Tgt Ion:276 Resp: 966053

Ion Ratio Lower Upper

276 100

138 23.6 22.2 33.2

277 24.9 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 30.999 ng

RT: 23.133 min Scan# 3391

Delta R.T. 0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

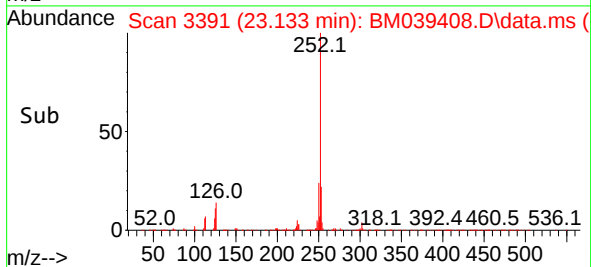
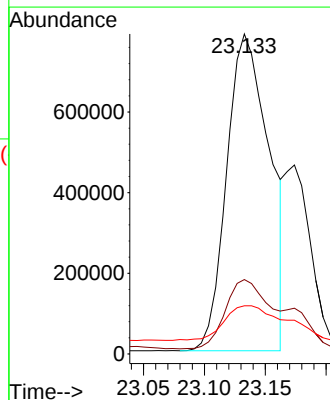
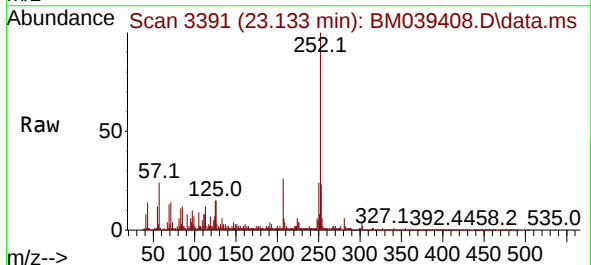
Tgt Ion:252 Resp: 1915388

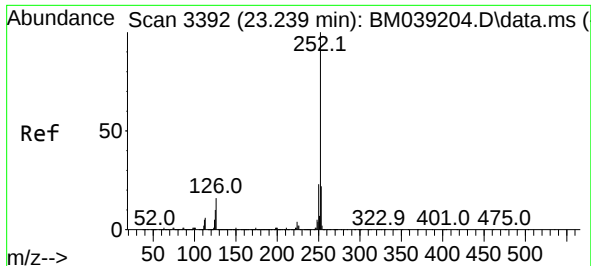
Ion Ratio Lower Upper

252 100

253 23.2 17.6 26.4

125 15.1 9.0 13.6#

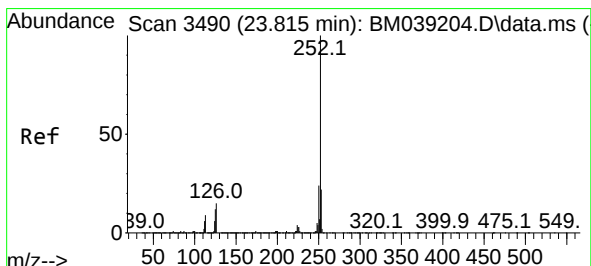
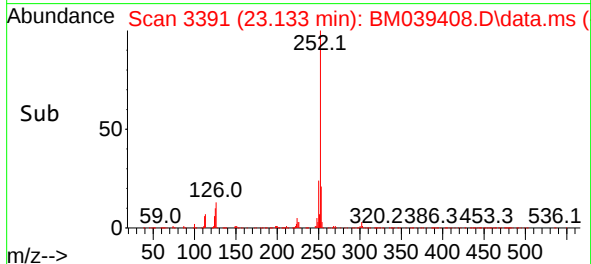
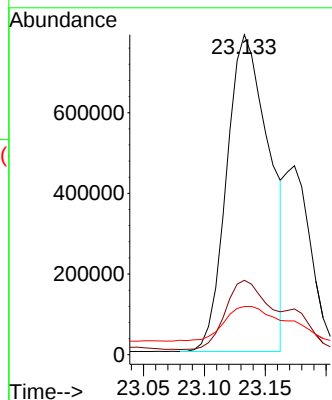
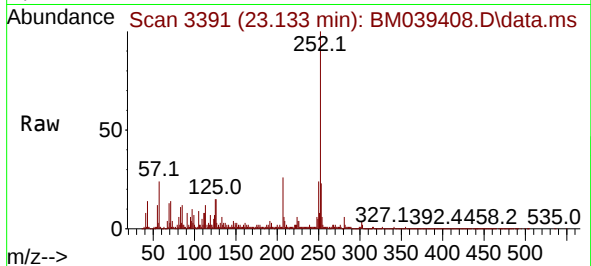




#89
Benzo(k)fluoranthene
Concen: 30.433 ng
RT: 23.133 min Scan# 31
Delta R.T. -0.041 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

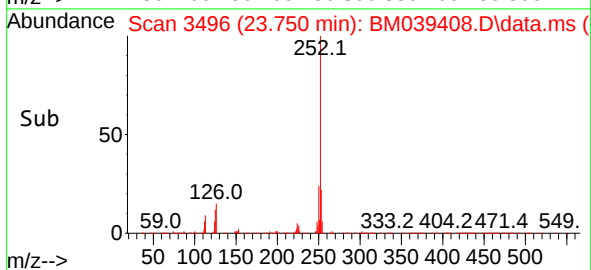
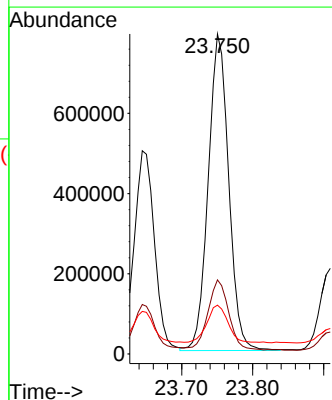
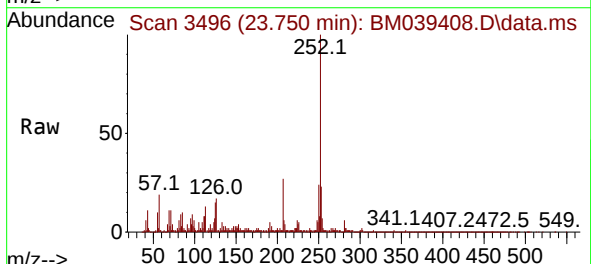
Instrument :
BNA_M
ClientSampleId :
50002-TOTERE

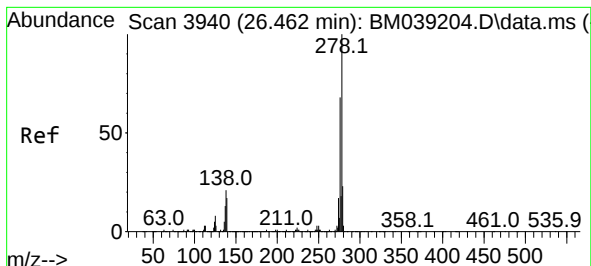
Tgt Ion:252 Resp: 1915388
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 15.1 8.5 12.7#



#90
Benzo(a)pyrene
Concen: 26.064 ng
RT: 23.750 min Scan# 3496
Delta R.T. 0.000 min
Lab File: BM039408.D
Acq: 12 Apr 2023 18:01

Tgt Ion:252 Resp: 1582059
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 15.3 9.8 14.6#





#91

Dibenzo(a,h)anthracene

Concen: 4.138 ng

RT: 26.344 min Scan# 3940

Delta R.T. -0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Instrument :

BNA_M

ClientSampleId :

50002-TOTERE

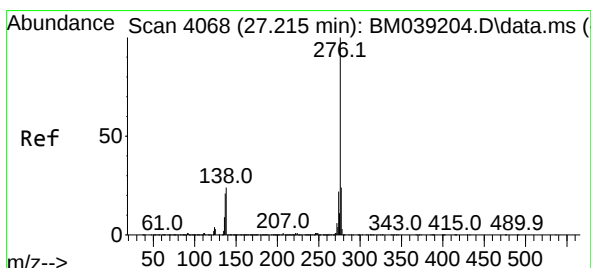
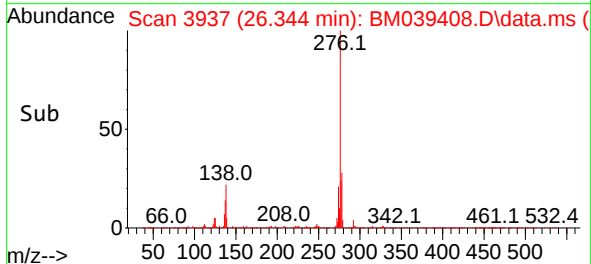
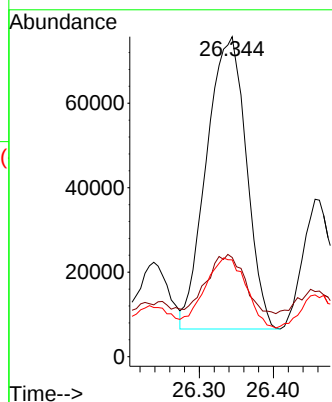
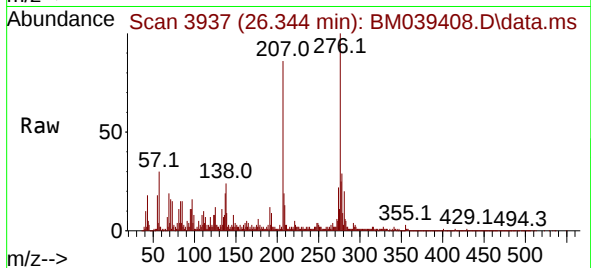
Tgt Ion:278 Resp: 258501

Ion Ratio Lower Upper

278 100

139 31.0 13.9 20.9#

279 30.3 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 15.818 ng

RT: 27.097 min Scan# 4065

Delta R.T. -0.006 min

Lab File: BM039408.D

Acq: 12 Apr 2023 18:01

Tgt Ion:276 Resp: 971895

Ion Ratio Lower Upper

276 100

277 25.3 19.1 28.7

138 25.4 19.5 29.3

