

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051419\
 Data File : BM020330.D
 Acq On : 14 May 2019 13:38
 Operator : JU/SJ
 Sample : K2642-10DL 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 14 15:53:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 14 15:47:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.76	152	49750	20.00	ng	0.00
21) Naphthalene-d8	10.55	136	178397	20.00	ng	0.00
39) Acenaphthene-d10	14.40	164	113327	20.00	ng	0.00
64) Phenanthrene-d10	17.16	188	270907	20.00	ng	0.00
76) Chrysene-d12	21.34	240	289760	20.00	ng	0.00
87) Perylene-d12	23.63	264	343778	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.35	112	13542	4.45	ng	0.00
7) Phenol-d6	6.93	99	14641	3.52	ng	0.00
23) Nitrobenzene-d5	8.93	82	10391	2.30	ng	0.00
42) 2,4,6-Tribromophenol	15.90	330	6694	3.81	ng	0.00
45) 2-Fluorobiphenyl	13.02	172	27648	3.00	ng	0.00
79) Terphenyl-d14	19.78	244	46991	2.83	ng	0.00

Target Compounds

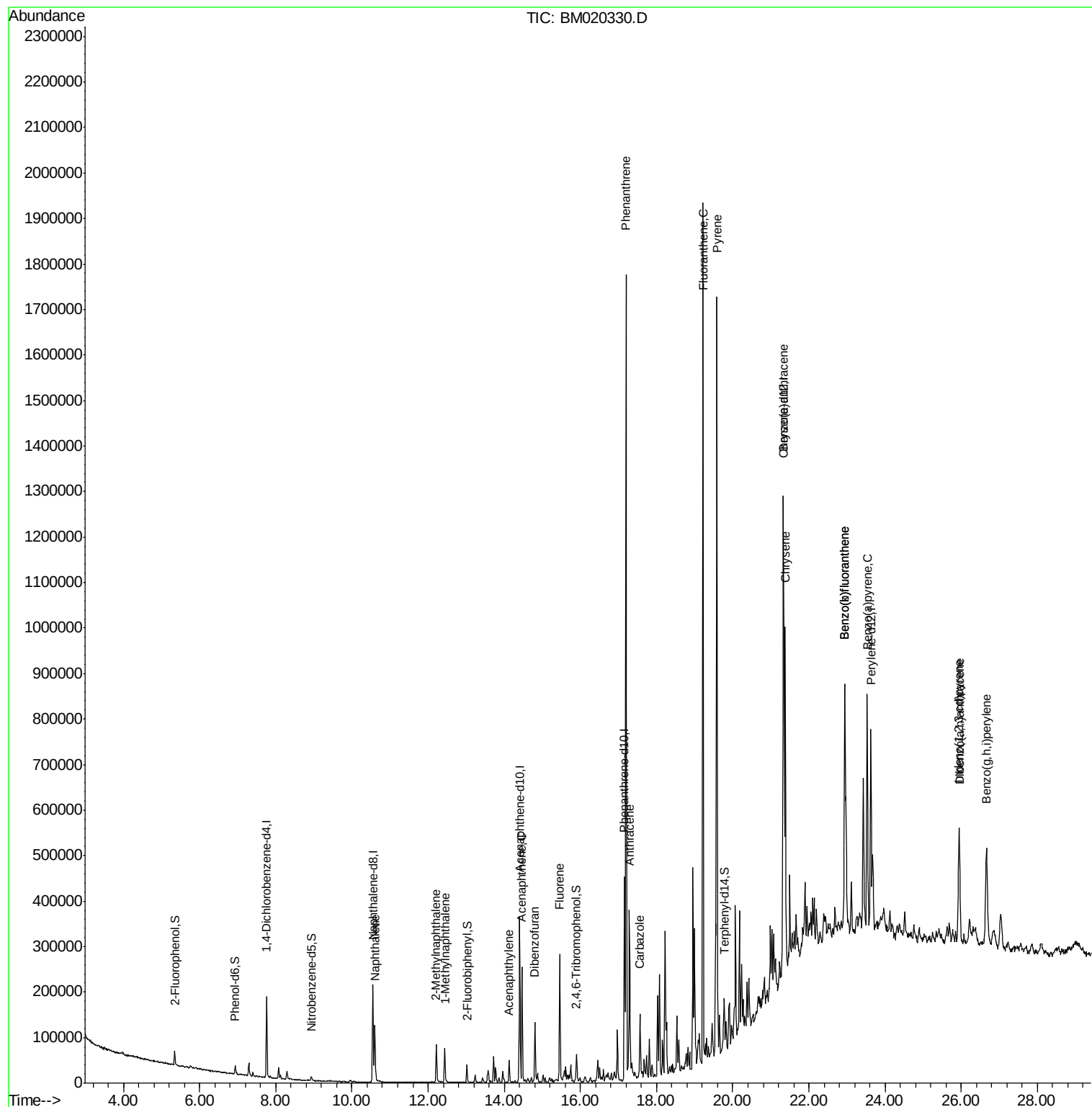
						Qvalue
31) Naphthalene	10.60	128	101796	10.996	ng	99
37) 2-Methylnaphthalene	12.22	142	45338	6.718	ng	94
38) 1-Methylnaphthalene	12.44	142	39151	5.932	ng	98
49) Acenaphthylene	14.13	152	31276	2.624	ng	93
52) Acenaphthene	14.47	154	86674	12.681	ng	97
55) Dibenzofuran	14.80	168	84114	7.296	ng	# 96
58) Fluorene	15.46	166	127527	13.468	ng	99
71) Phenanthrene	17.20	178	1065886	71.276	ng	100
72) Anthracene	17.29	178	235924	15.779	ng	100
73) Carbazole	17.57	167	95080	7.048	ng	99
75) Fluoranthene	19.22	202	1206949	63.789	ng	99
78) Pyrene	19.58	202	1028525	52.869	ng	100
81) Benzo(a)anthracene	21.33	228	467402	23.001	ng	99
83) Chrysene	21.38	228	423321	21.480	ng	98
86) Indeno(1,2,3-cd)pyrene	25.94	276	267934	11.430	ng	97
88) Benzo(b)fluoranthene	22.94	252	705817	31.092	ng	# 97
89) Benzo(k)fluoranthene	22.94	252	705174	34.054	ng	# 97
90) Benzo(a)pyrene	23.53	252	415189	20.135	ng	97
91) Dibenzo(a,h)anthracene	25.96	278	66457	3.099	ng	# 82
92) Benzo(a,h,i)perylene	26.66	276	277985	13.654	ng	99

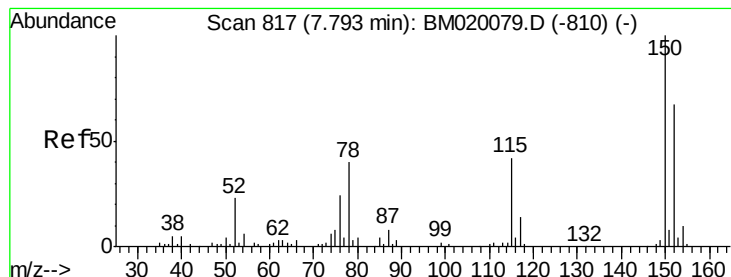
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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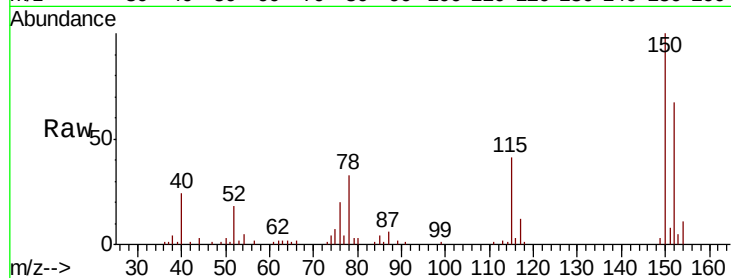


#1

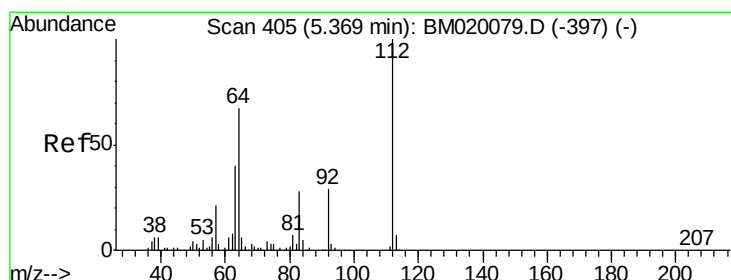
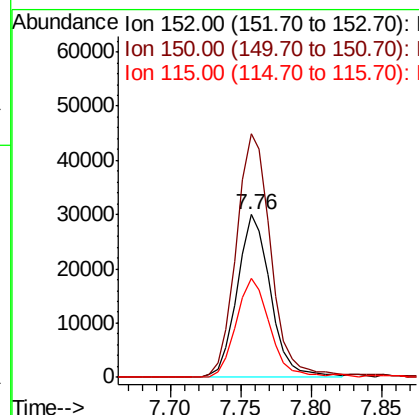
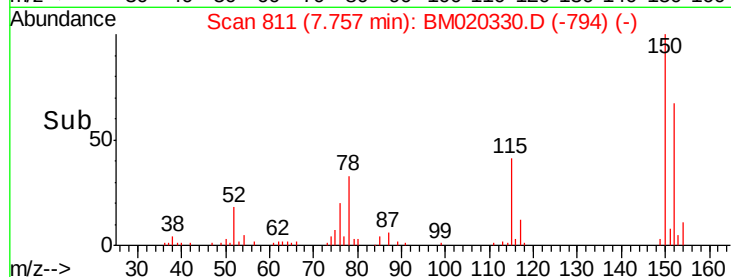
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.76 min Scan# 811
Delta R.T. 0.00 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Instrument :
BNA_M
ClientSampleId :

Tot Ion:152 Resp: 49750
Ion Ratio Lower Upper
152 100
150 149.4 120.3 180.5
115 60.9 49.2 73.8



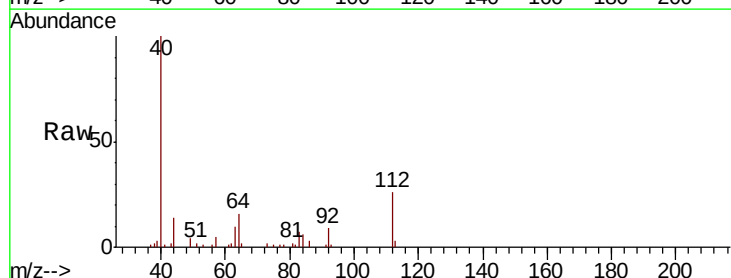
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



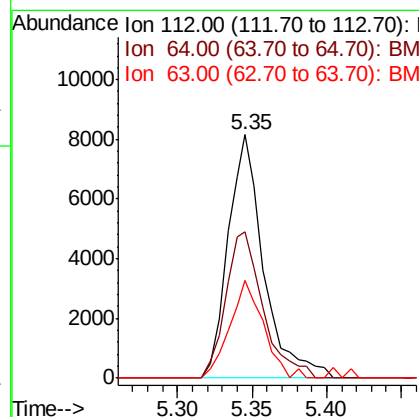
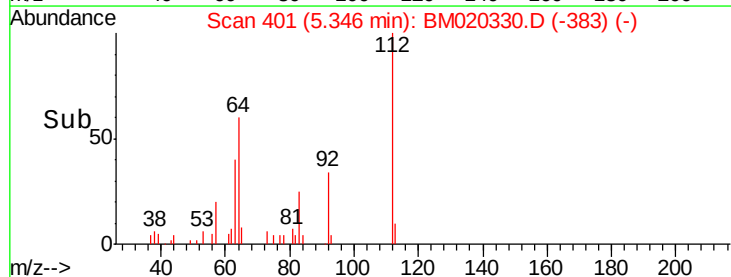
#5

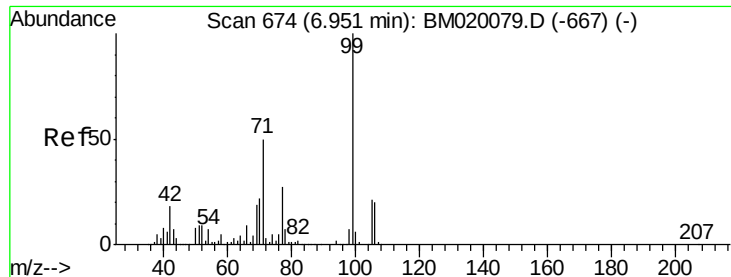
2-Fluorophenol
Concen: 4.449 ng
RT: 5.35 min Scan# 401
Delta R.T. 0.01 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Tgt Ion:112 Resp: 13542
Ion Ratio Lower Upper
112 100
64 60.1 50.1 75.1
63 39.9 27.4 41.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 3.521 ng

RT: 6.93 min Scan# 671

Delta R.T. 0.01 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

Instrument :

BNA_M

ClientSampleId :

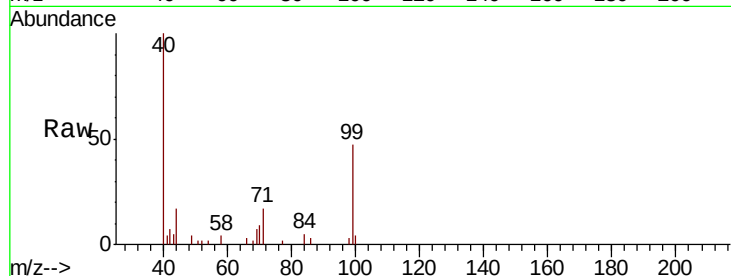
Tot Ion: 99 Resp: 14641

Ion Ratio Lower Upper

99 100

42 14.2 11.2 16.8

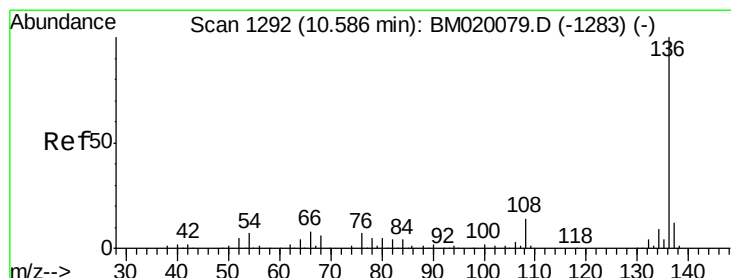
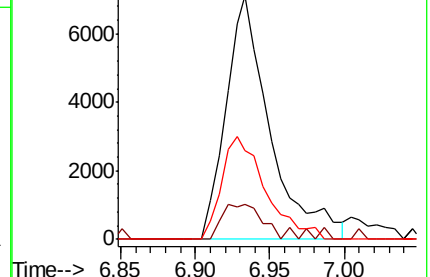
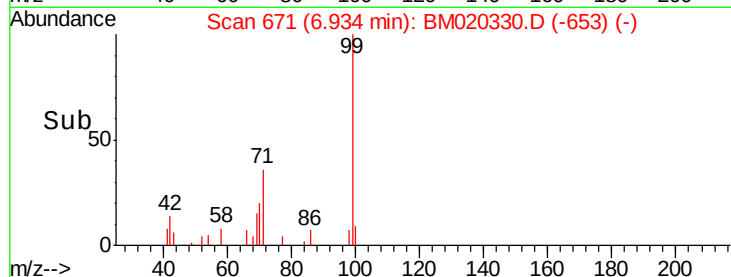
71 36.4 35.6 53.4



Abundance Ion 99.00 (98.70 to 99.70): BM020079.D (-667) (-)

Ion 42.00 (41.70 to 42.70): BM020079.D (-667) (-)

Ion 71.00 (70.70 to 71.70): BM020079.D (-667) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.55 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

Tgt Ion: 136 Resp: 178397

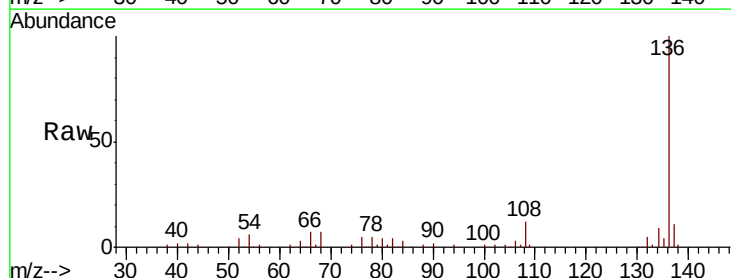
Ion Ratio Lower Upper

136 100

137 10.6 9.0 13.6

54 6.3 5.3 7.9

68 7.0 5.4 8.2

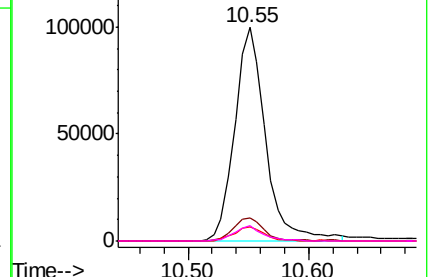
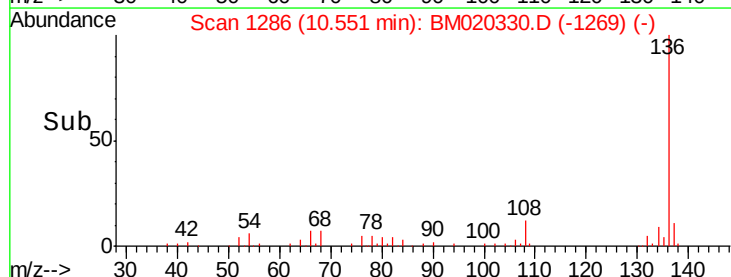


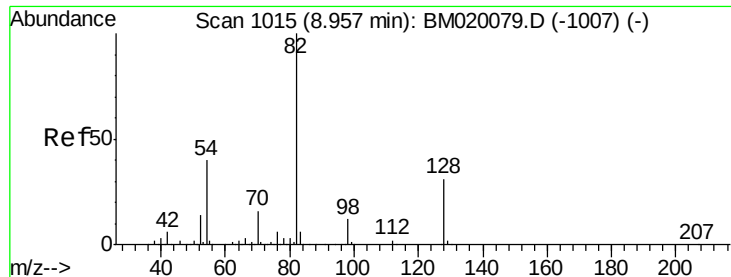
Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

Ion 137.00 (136.70 to 137.70): BM020079.D (-1283) (-)

Ion 54.00 (53.70 to 54.70): BM020079.D (-1283) (-)

Ion 68.00 (67.70 to 68.70): BM020079.D (-1283) (-)

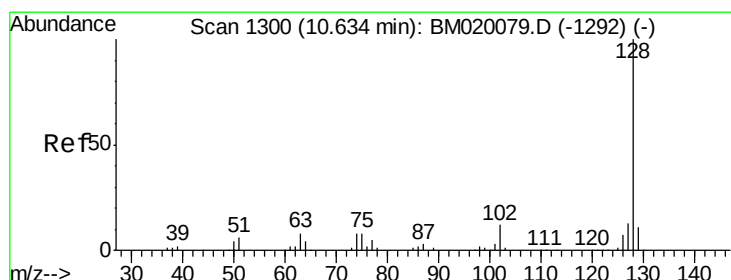
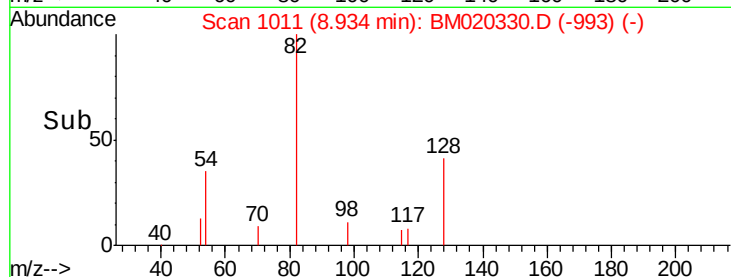
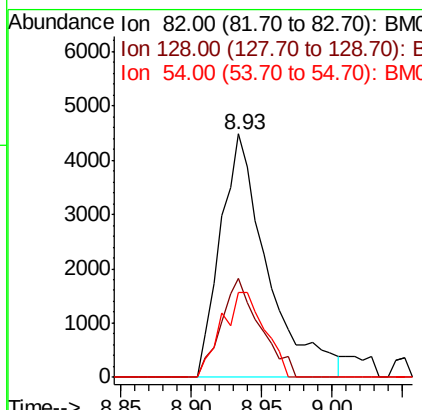
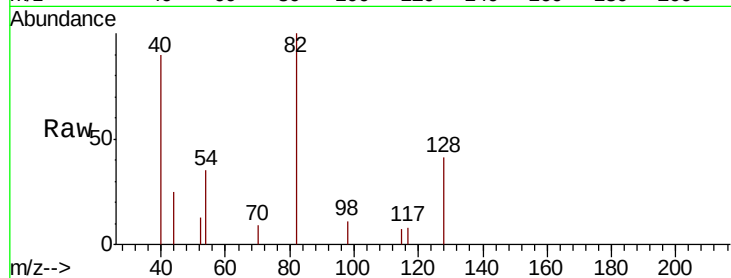




#23
Nitrobenzene-d5
Concen: 2.300 ng
RT: 8.93 min Scan# 1011
Delta R.T. 0.01 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

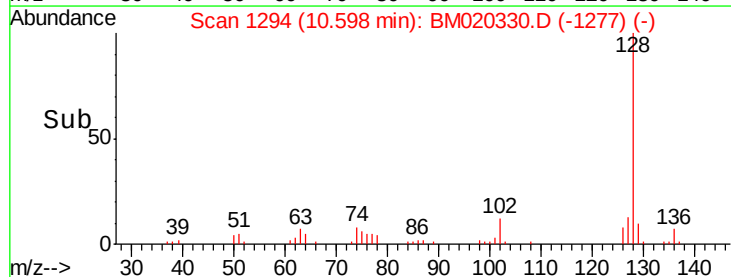
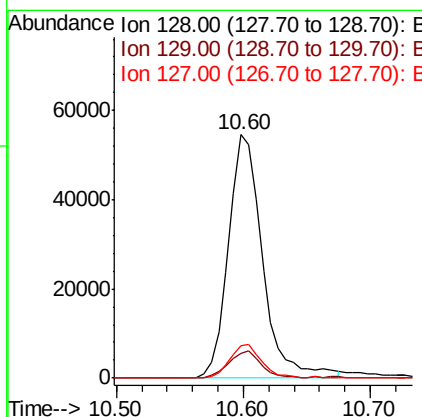
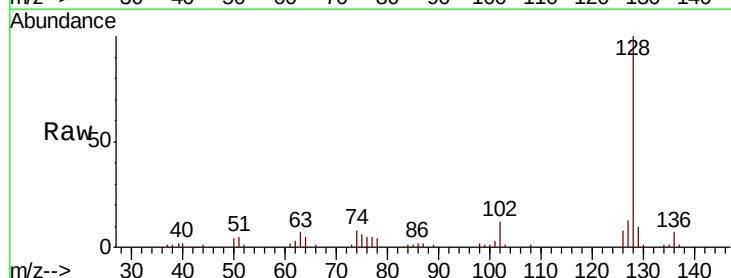
Instrument :
BNA_M
ClientSampleId :

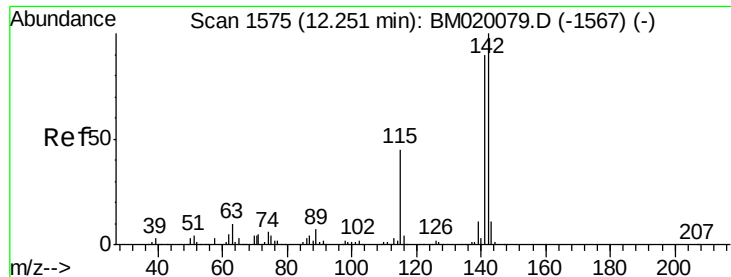
Tot Ion	82	Resp	10391
Ion Ratio	Lower	Upper	
82	100		
128	40.6	26.9	40.3#
54	34.9	28.6	43.0



#31
Naphthalene
Concen: 10.996 ng
RT: 10.60 min Scan# 1294
Delta R.T. 0.00 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Tgt Ion	128	Resp	101796
Ion Ratio	Lower	Upper	
128	100		
129	10.4	8.6	12.8
127	13.3	10.2	15.2

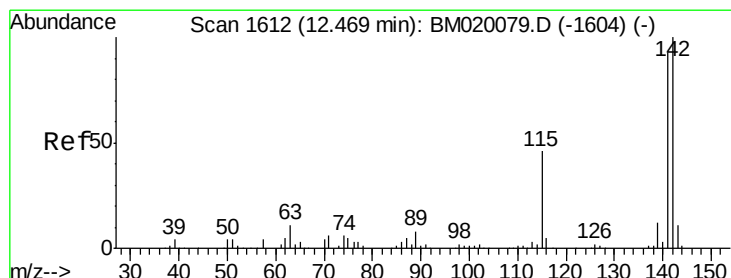
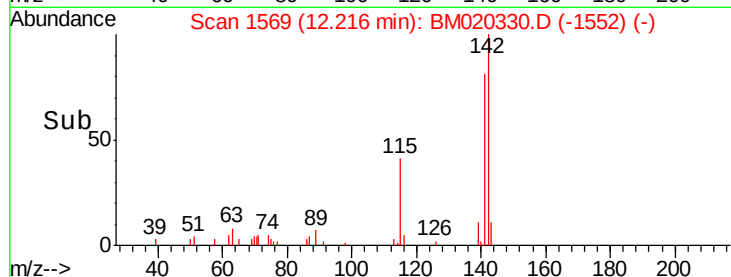
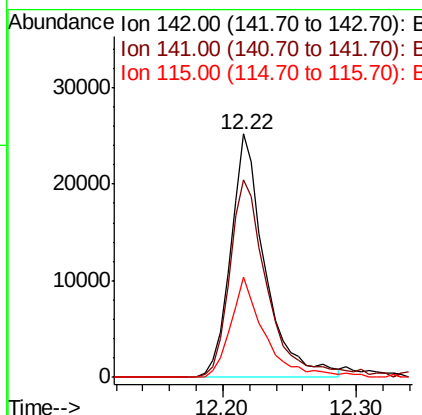
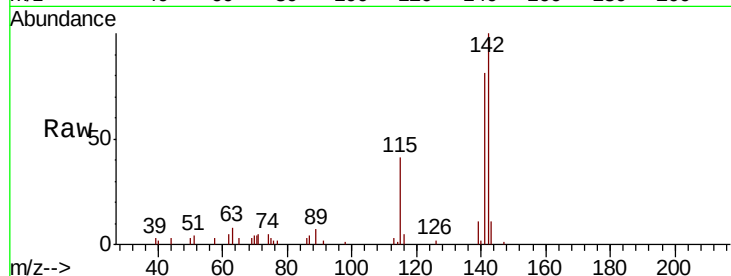




#37
 2-Methylnaphthalene
 Concen: 6.718 ng
 RT: 12.22 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: BM020330.D
 Acq: 14 May 2019 13:38

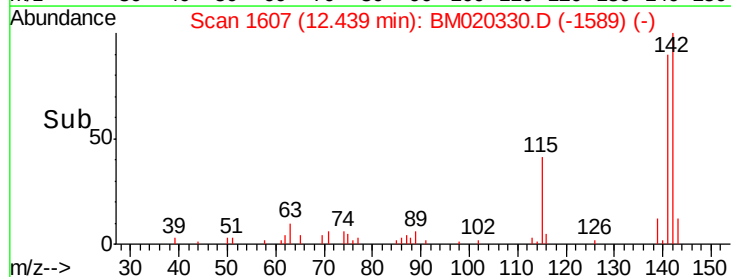
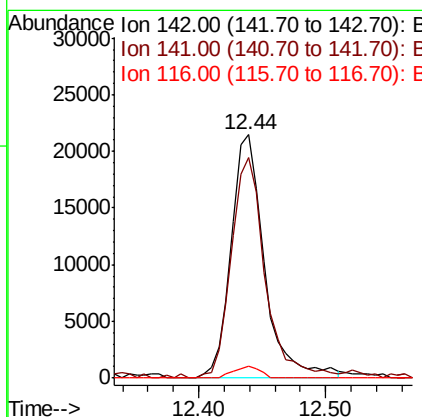
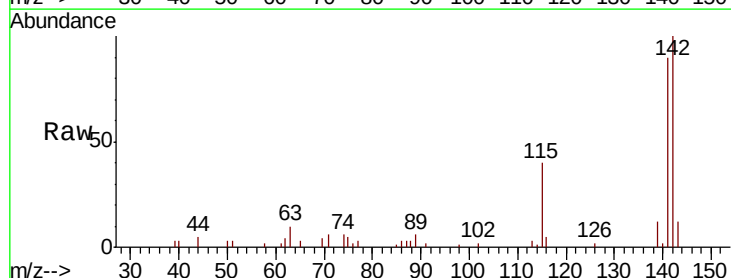
Instrument :
 BNA_M
 ClientSampleId :

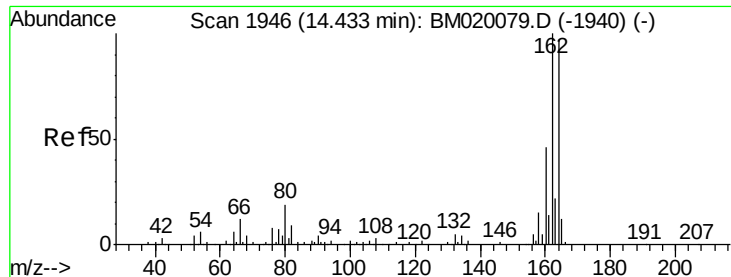
Tot Ion:142 Resp: 45338
 Ion Ratio Lower Upper
 142 100
 141 81.4 69.2 103.8
 115 41.1 30.0 45.0



#38
 1-Methylnaphthalene
 Concen: 5.932 ng
 RT: 12.44 min Scan# 1607
 Delta R.T. 0.01 min
 Lab File: BM020330.D
 Acq: 14 May 2019 13:38

Tgt Ion:142 Resp: 39151
 Ion Ratio Lower Upper
 142 100
 141 90.4 71.1 106.7
 116 5.0 3.4 5.2

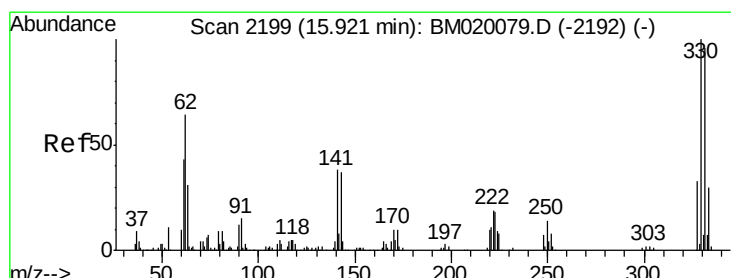
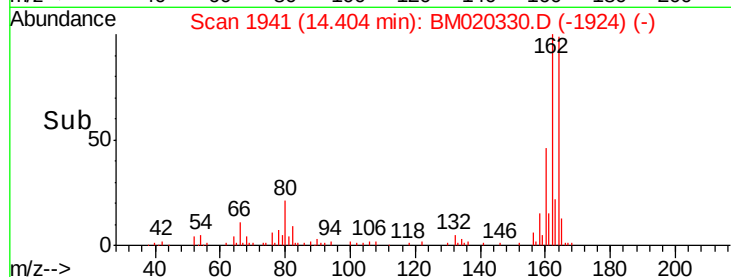
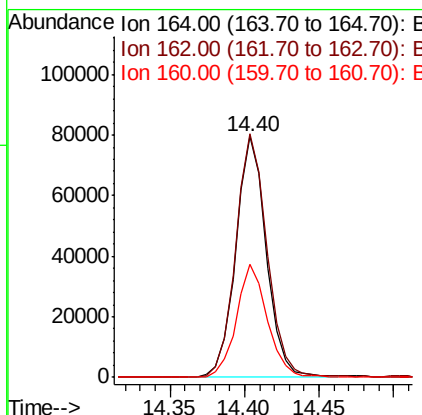
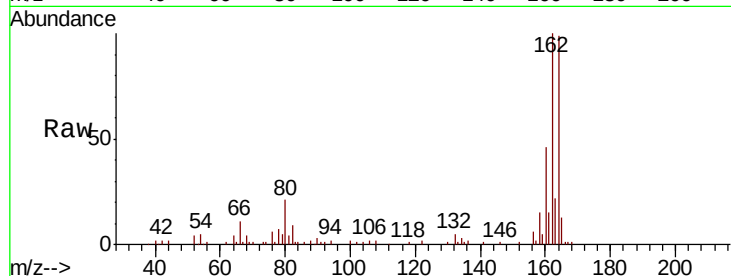




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.40 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: BM020330.D
 Acq: 14 May 2019 13:38

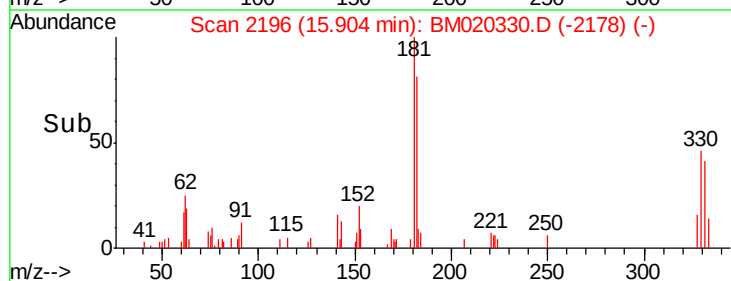
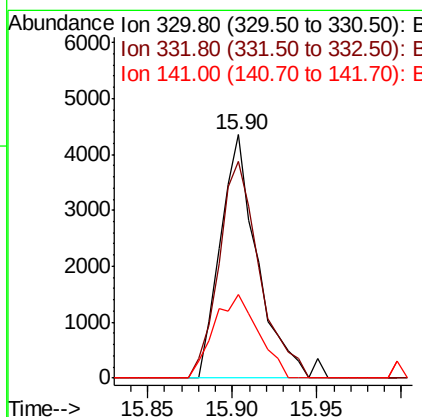
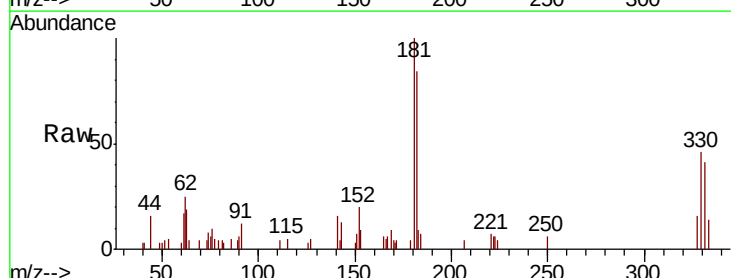
Instrument :
 BNA_M
 ClientSampleId :

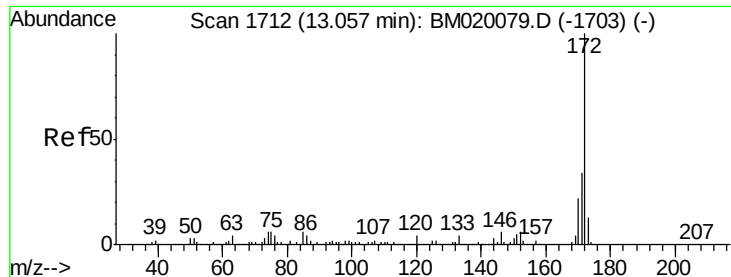
Tot Ion:164 Resp: 113327
 Ion Ratio Lower Upper
 164 100
 162 101.1 77.5 116.3
 160 46.9 35.8 53.6



#42
 2,4,6-Tribromophenol
 Concen: 3.805 ng
 RT: 15.90 min Scan# 2196
 Delta R.T. 0.01 min
 Lab File: BM020330.D
 Acq: 14 May 2019 13:38

Tgt Ion:330 Resp: 6694
 Ion Ratio Lower Upper
 330 100
 332 96.5 77.6 116.4
 141 40.6 25.7 38.5#

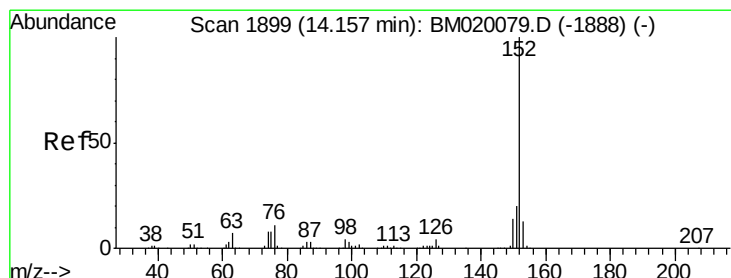
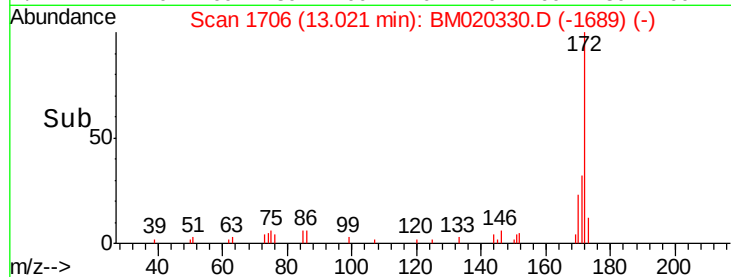
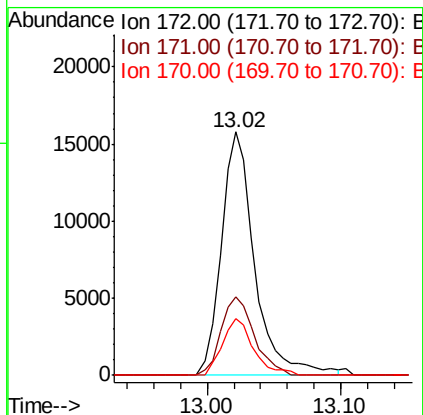
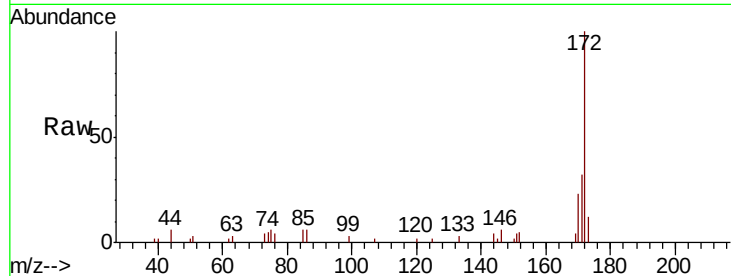




#45
2-Fluorobiphenyl
Concen: 3.002 ng
RT: 13.02 min Scan# 1706
Delta R.T. 0.00 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

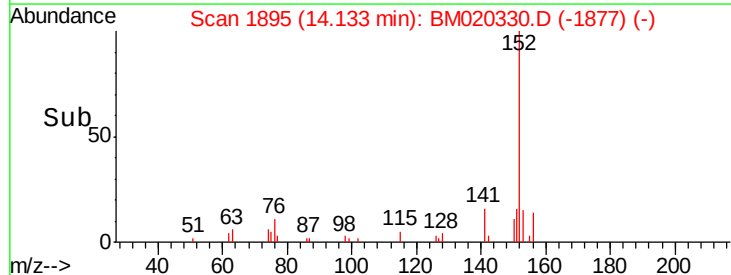
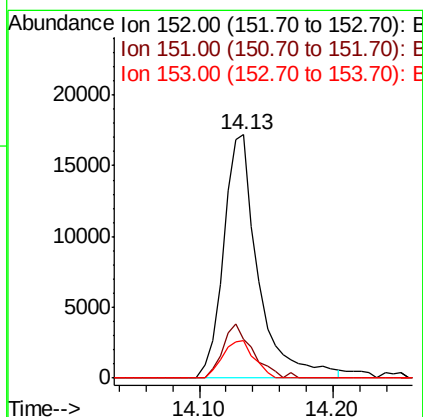
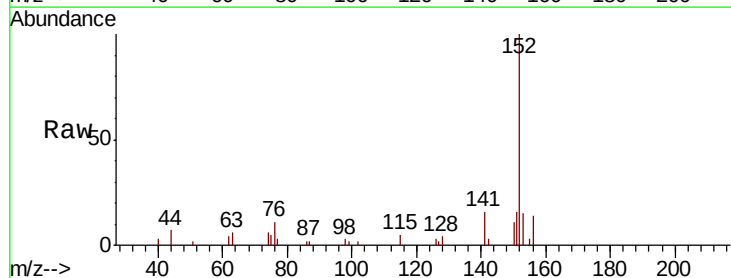
Instrument :
BNA_M
ClientSampleId :

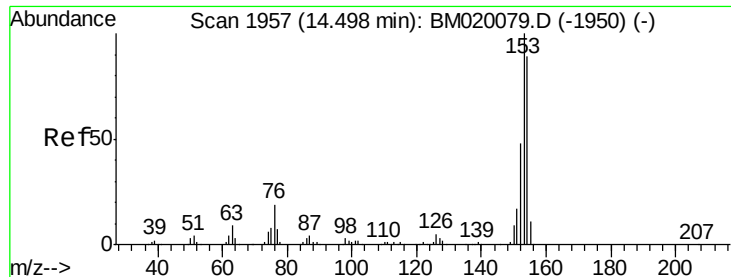
Tot Ion:172 Resp: 27648
Ion Ratio Lower Upper
172 100
171 32.1 28.2 42.4
170 23.3 18.3 27.5



#49
Acenaphthylene
Concen: 2.624 ng
RT: 14.13 min Scan# 1895
Delta R.T. 0.01 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Tgt Ion:152 Resp: 31276
Ion Ratio Lower Upper
152 100
151 16.1 15.5 23.3
153 15.3 10.2 15.4





#52

Acenaphthene

Concen: 12.681 ng

RT: 14.47 min Scan# 1952

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

Instrument :

BNA_M

ClientSampleId :

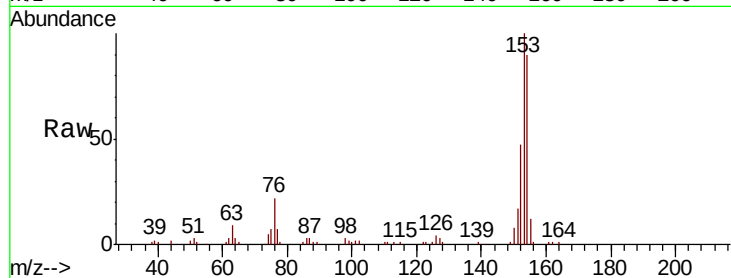
Tot Ion:154 Resp: 86674

Ion Ratio Lower Upper

154 100

153 110.6 91.7 137.5

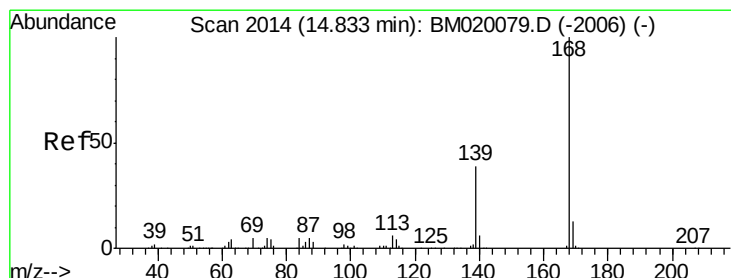
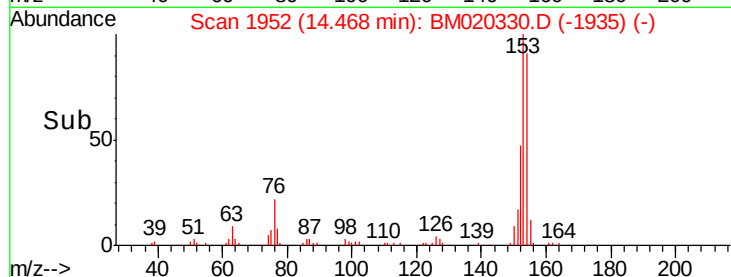
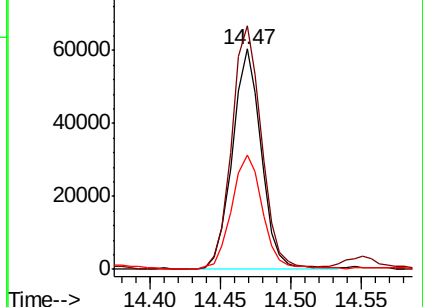
152 52.2 42.1 63.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 7.296 ng

RT: 14.80 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

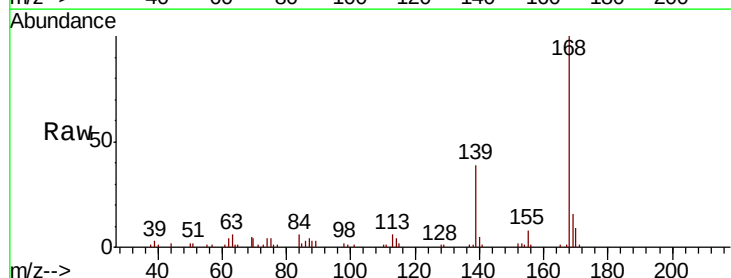
Tgt Ion:168 Resp: 84114

Ion Ratio Lower Upper

168 100

139 38.8 29.5 44.3

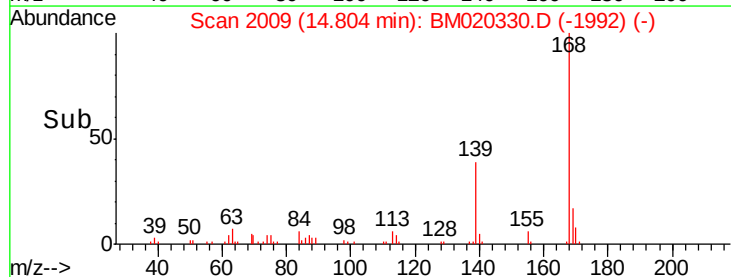
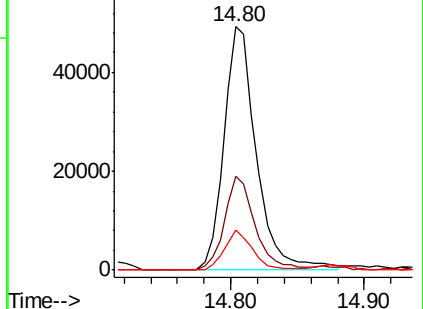
169 16.3 10.6 15.8#

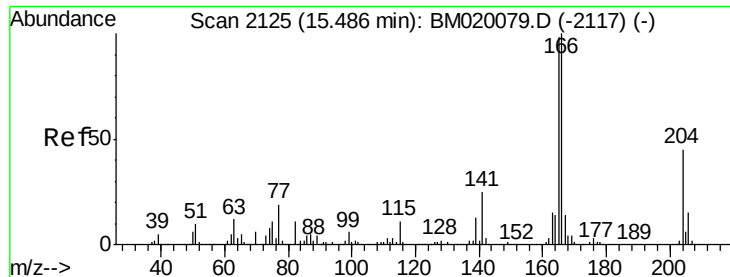


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

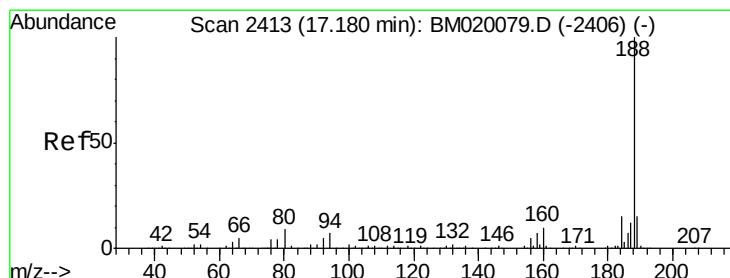
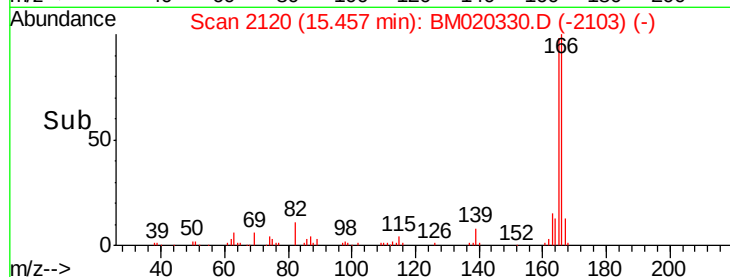
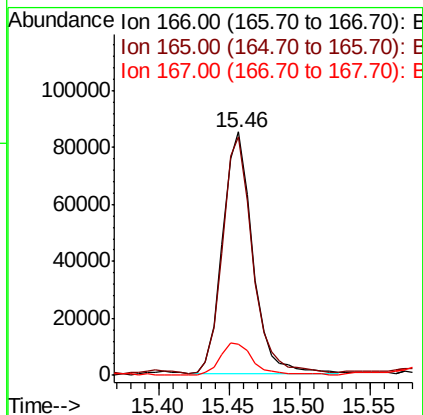
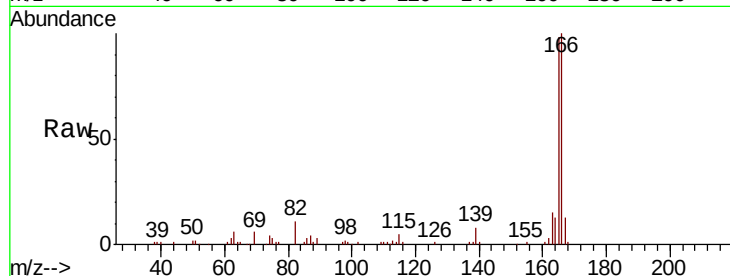




#58
 Fluorene
 Concen: 13.468 ng
 RT: 15.46 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: BM020330.D
 Acq: 14 May 2019 13:38

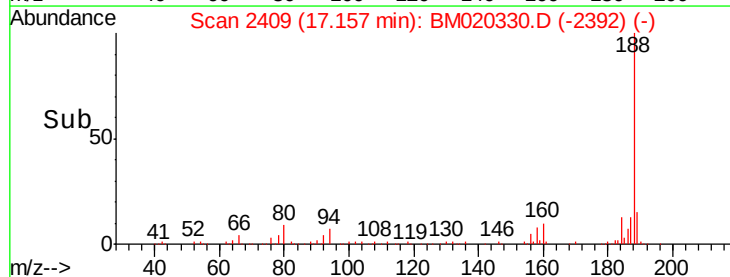
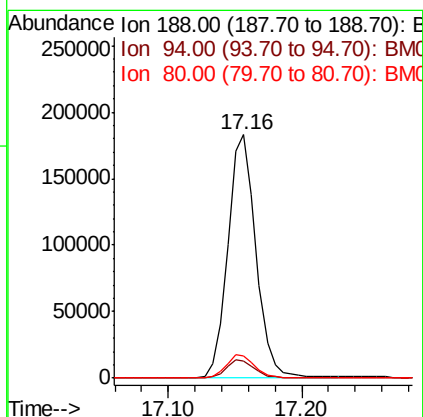
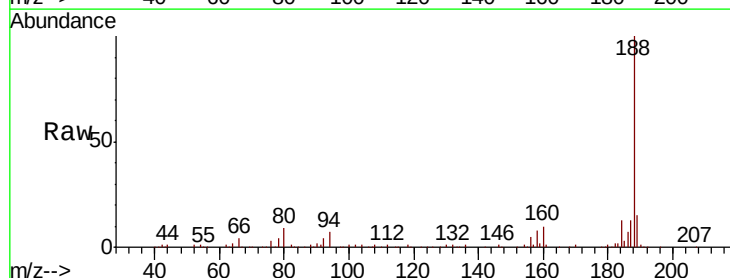
Instrument :
 BNA_M
 ClientSampled :

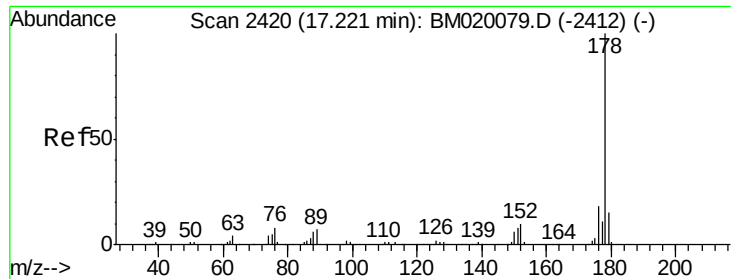
Tot Ion:166 Resp: 127527
 Ion Ratio Lower Upper
 166 100
 165 98.1 77.7 116.5
 167 13.0 10.7 16.1



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.16 min Scan# 2409
 Delta R.T. 0.00 min
 Lab File: BM020330.D
 Acq: 14 May 2019 13:38

Tgt Ion:188 Resp: 270907
 Ion Ratio Lower Upper
 188 100
 94 7.0 5.8 8.6
 80 9.3 7.4 11.2

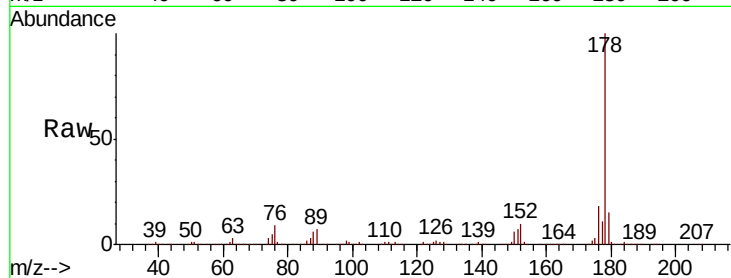




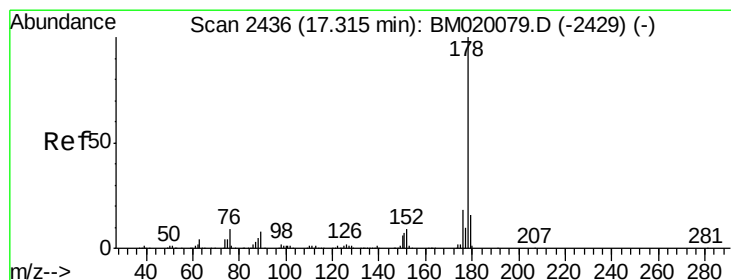
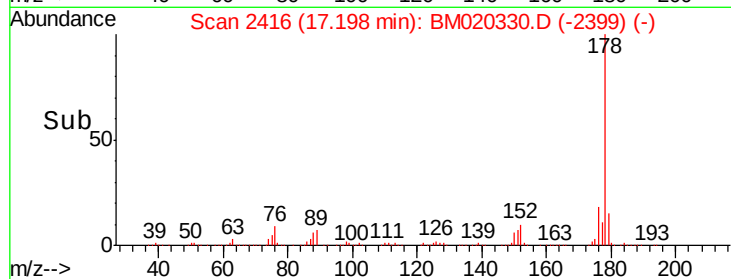
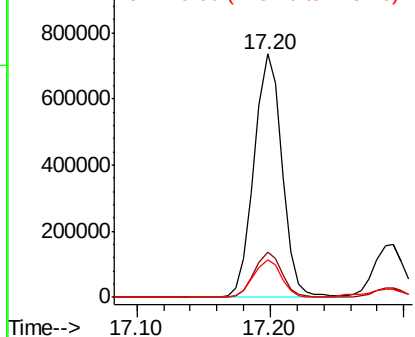
#71
Phenanthrene
Concen: 71.276 ng
RT: 17.20 min Scan# 2416
Delta R.T. 0.00 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Instrument :
BNA_M
ClientSampled :

Tot Ion:178 Resp: 1065886
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.4 12.2 18.4

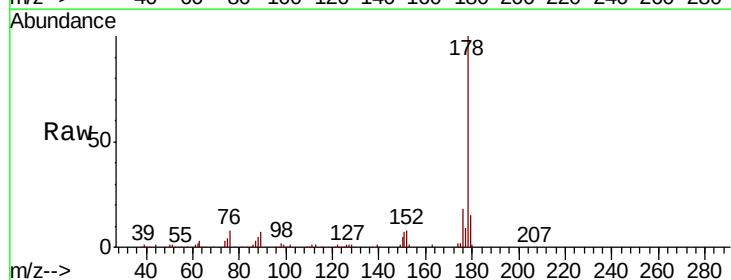


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

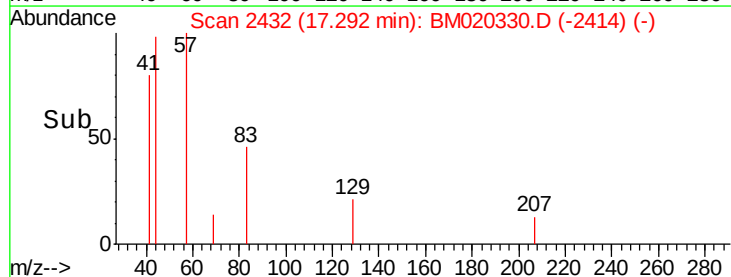
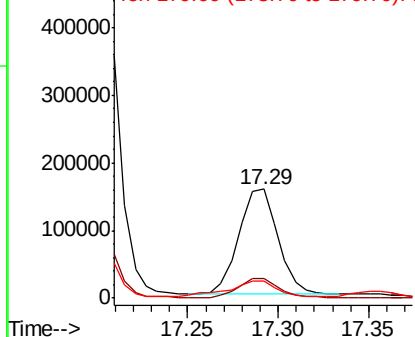


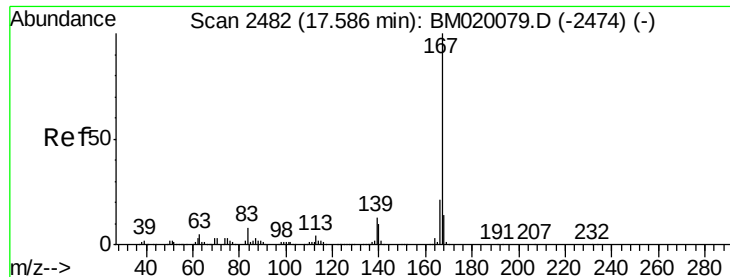
#72
Anthracene
Concen: 15.779 ng
RT: 17.29 min Scan# 2432
Delta R.T. 0.01 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Tgt Ion:178 Resp: 235924
Ion Ratio Lower Upper
178 100
176 17.6 14.0 21.0
179 15.5 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 7.048 ng

RT: 17.57 min Scan# 2479

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

Instrument :

BNA_M

ClientSampleId :

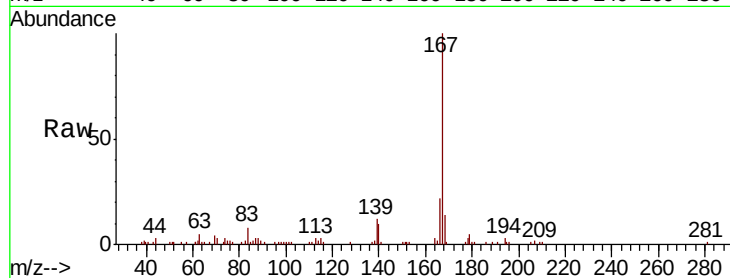
Tot Ion:167 Resp: 95080

Ion Ratio Lower Upper

167 100

166 21.6 17.1 25.7

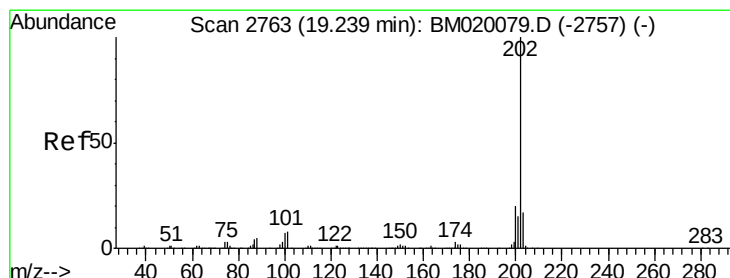
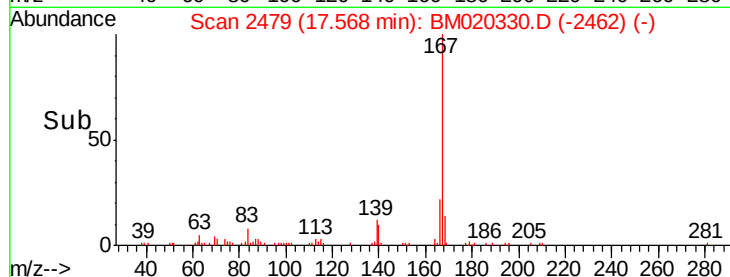
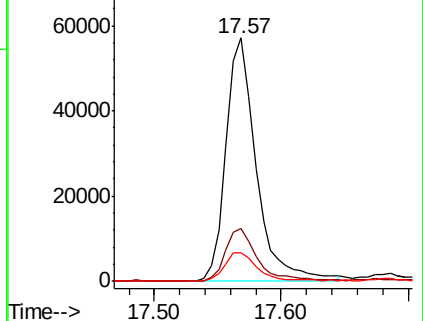
139 11.8 9.8 14.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 63.789 ng

RT: 19.22 min Scan# 2759

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

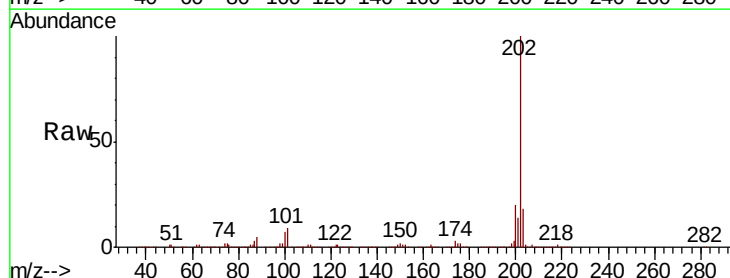
Tgt Ion:202 Resp: 1206949

Ion Ratio Lower Upper

202 100

101 8.6 0.0 28.7

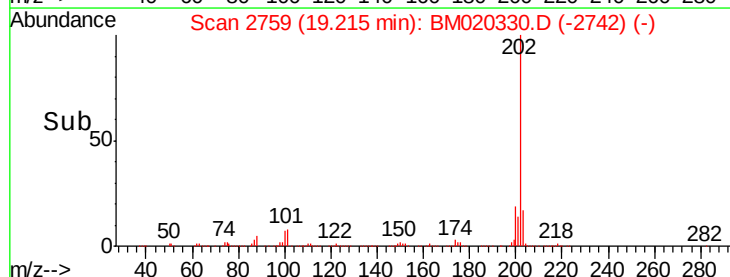
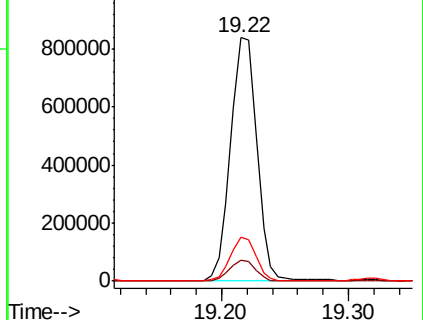
203 17.8 0.0 37.2

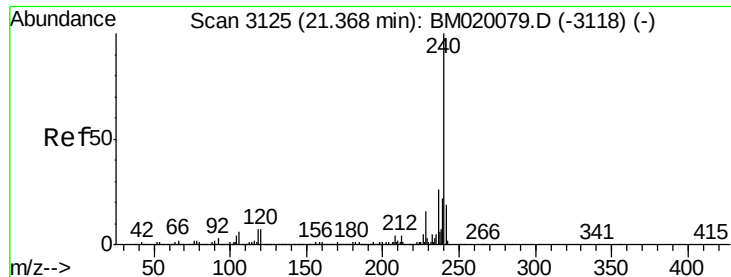


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.34 min Scan# 3121

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

Instrument :

BNA_M

ClientSampleId :

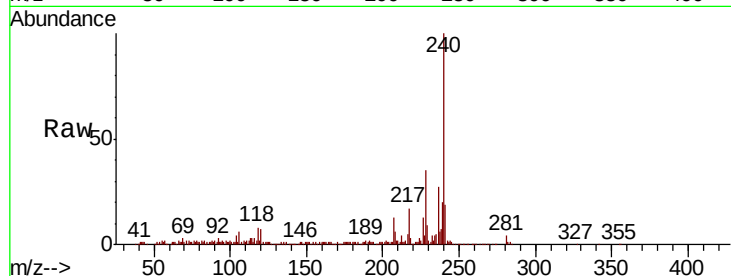
Tot Ion:240 Resp: 289760

Ion Ratio Lower Upper

240 100

120 7.2 6.1 9.1

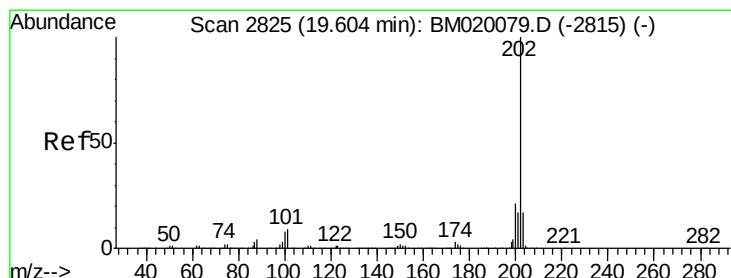
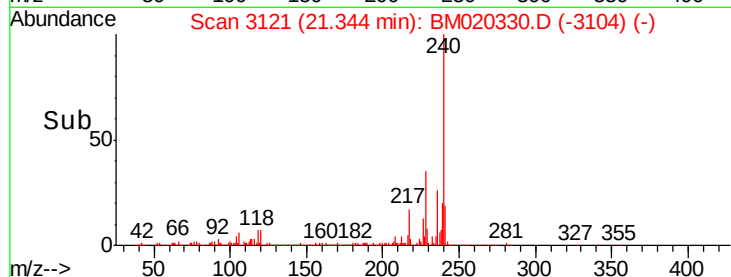
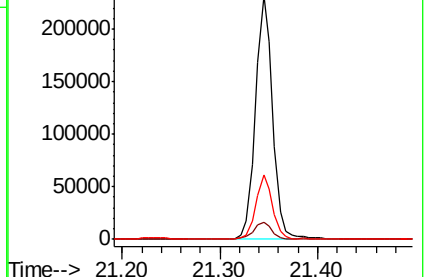
236 26.6 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 52.869 ng

RT: 19.58 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

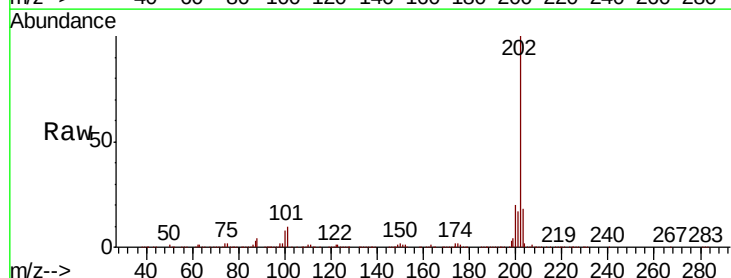
Tgt Ion:202 Resp: 1028525

Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.2

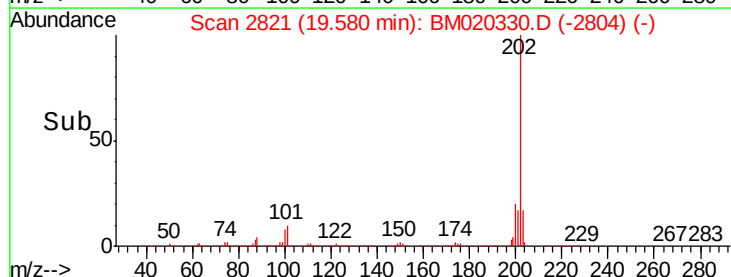
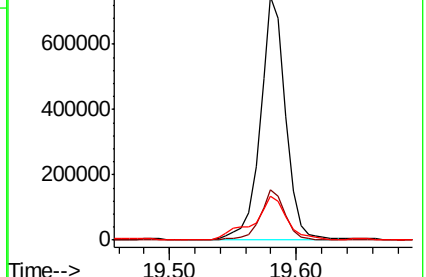
203 17.8 14.2 21.2

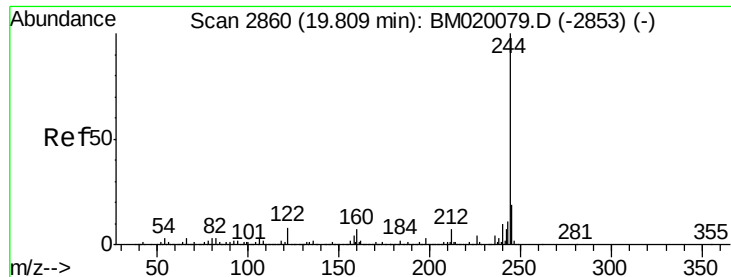


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 2.829 ng

RT: 19.78 min Scan# 2855

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

Instrument :

BNA_M

ClientSampleId :

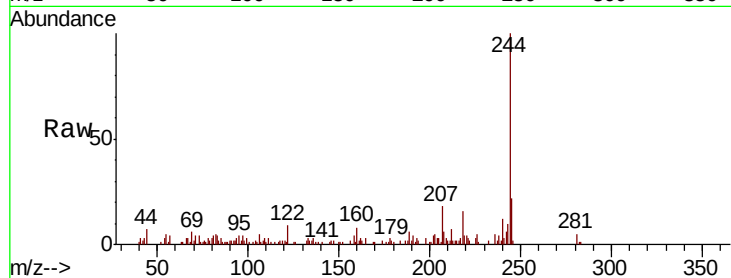
Tot Ion:244 Resp: 46991

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.2

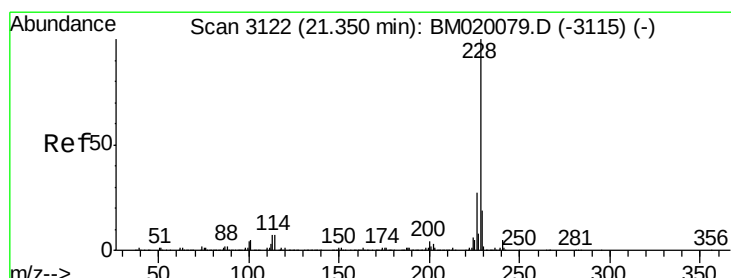
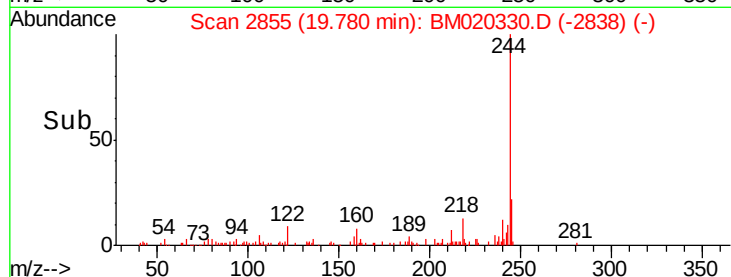
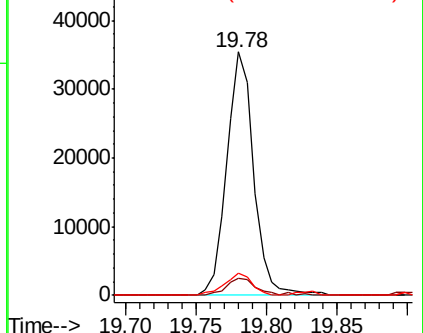
122 9.0 6.3 9.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 23.001 ng

RT: 21.33 min Scan# 3119

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

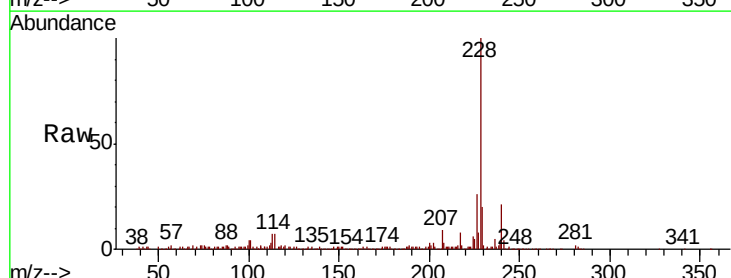
Tgt Ion:228 Resp: 467402

Ion Ratio Lower Upper

228 100

226 26.3 20.7 31.1

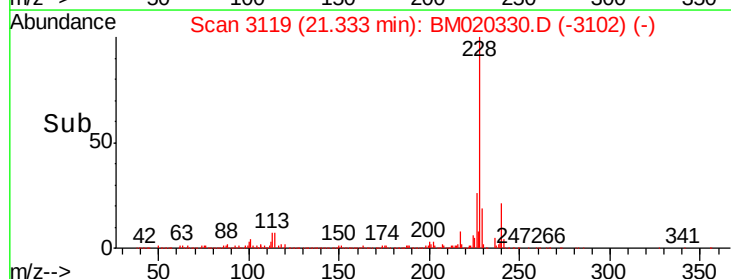
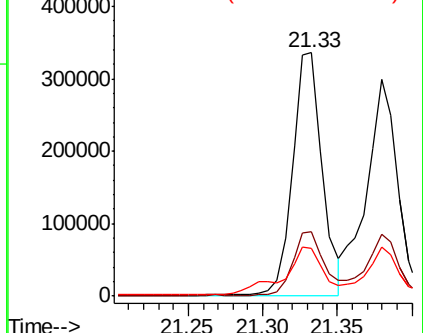
229 19.8 15.4 23.0

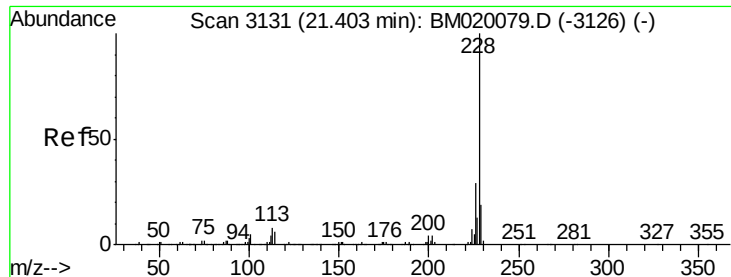


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 21.480 ng

RT: 21.38 min Scan# 3127

Delta R.T. 0.00 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

Instrument :

BNA_M

ClientSampled :

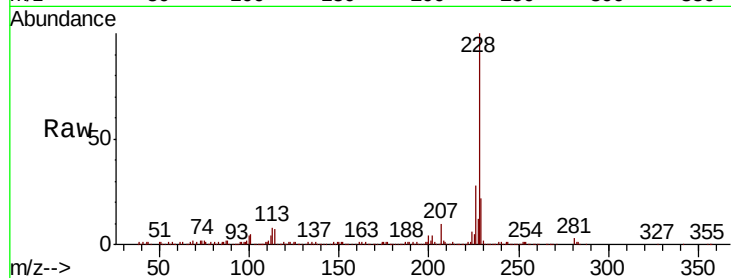
Tot Ion:228 Resp: 423321

Ion Ratio Lower Upper

228 100

226 28.3 22.8 34.2

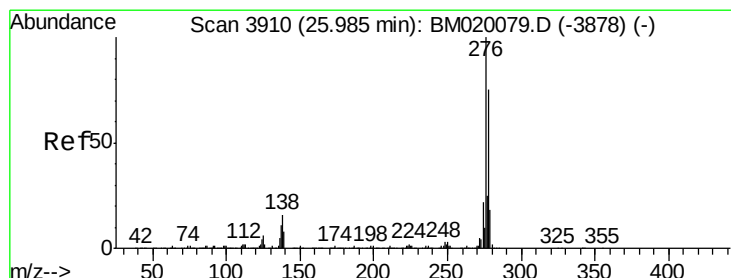
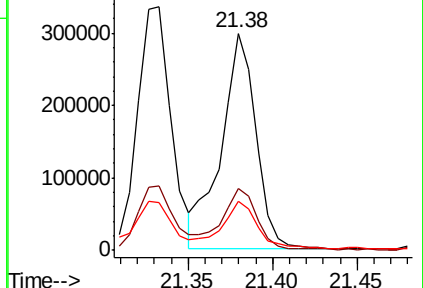
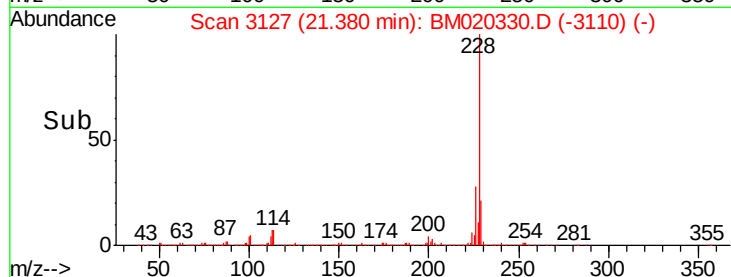
229 22.3 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 11.430 ng

RT: 25.94 min Scan# 3903

Delta R.T. -0.01 min

Lab File: BM020330.D

Acq: 14 May 2019 13:38

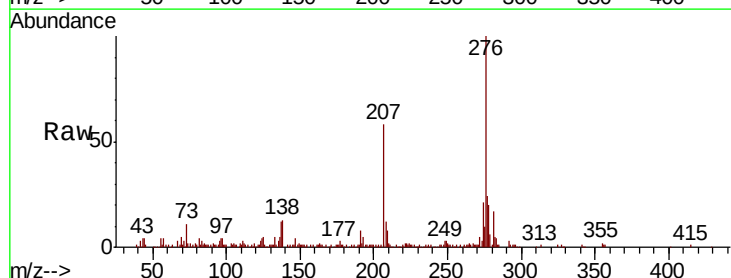
Tgt Ion:276 Resp: 267934

Ion Ratio Lower Upper

276 100

138 14.1 13.3 19.9

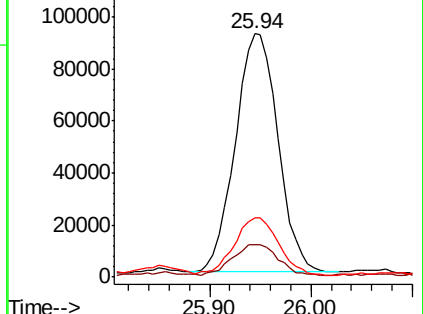
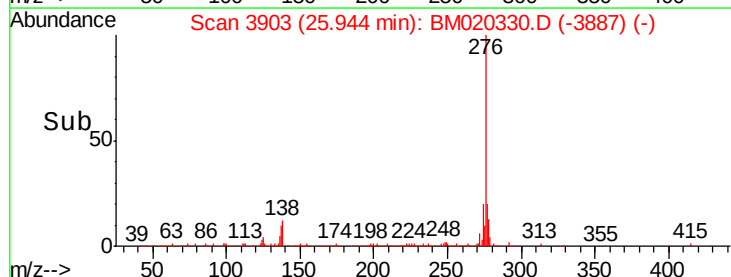
277 24.6 20.4 30.6

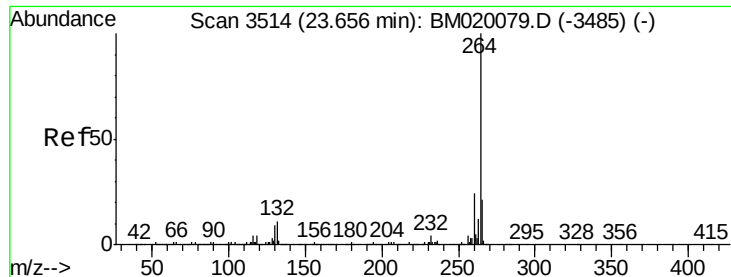


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

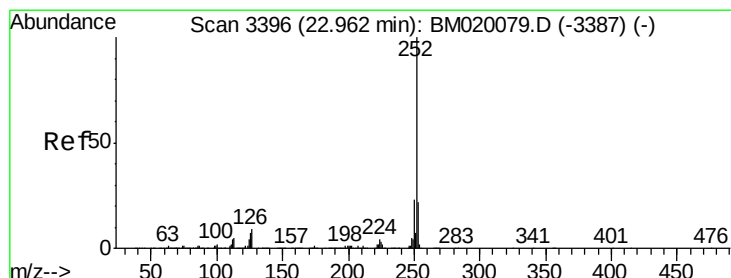
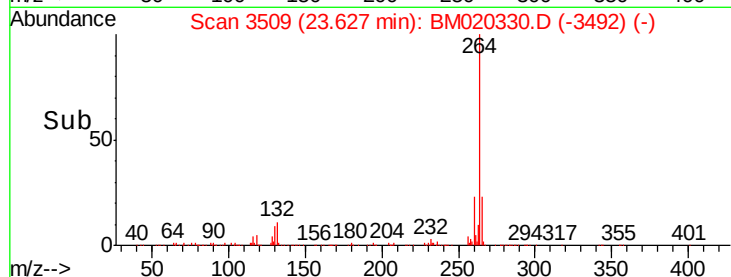
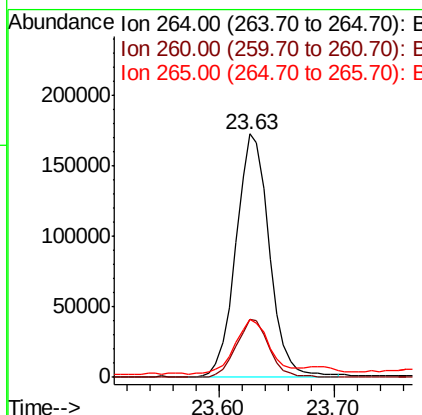
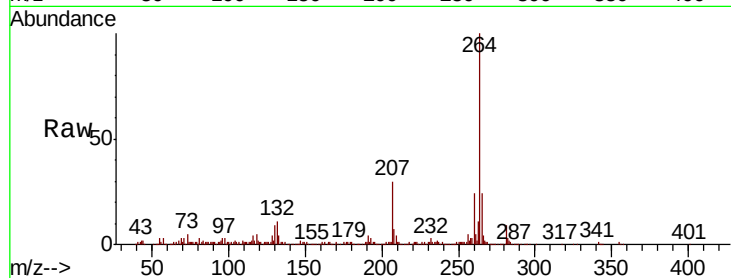




#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.63 min Scan# 3509
Delta R.T. 0.00 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

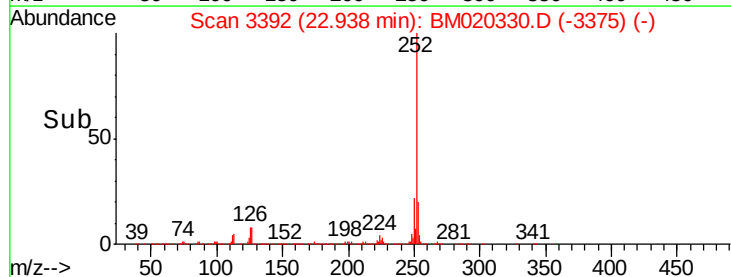
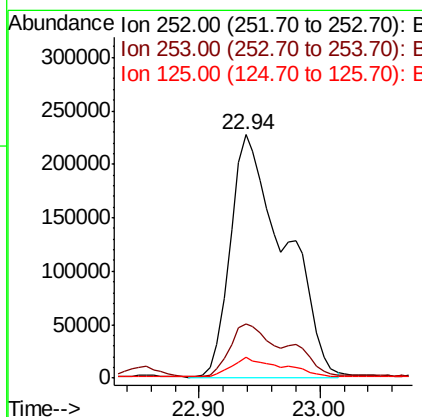
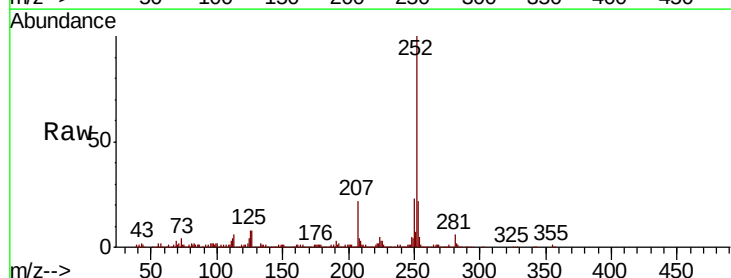
Instrument :
BNA_M
ClientSampleId :

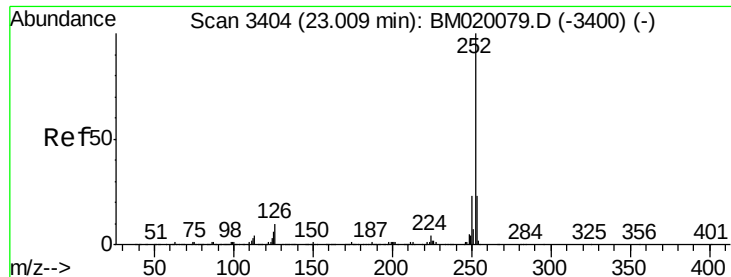
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.1	27.1
265	23.8	17.6	26.4



#88
Benzo(b)fluoranthene
Concen: 31.092 ng
RT: 22.94 min Scan# 3392
Delta R.T. 0.00 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	8.3	5.3	7.9#

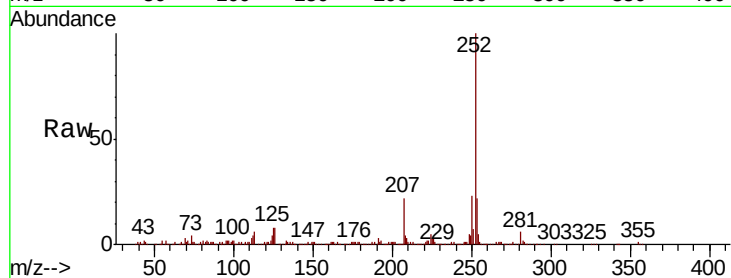




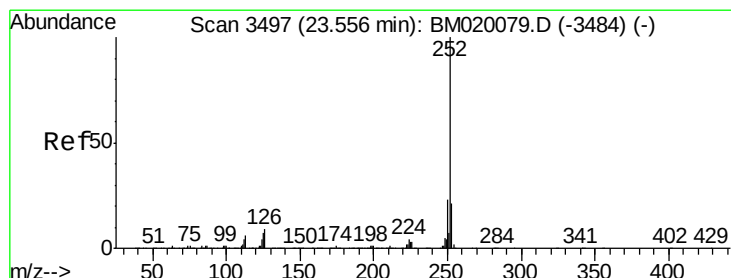
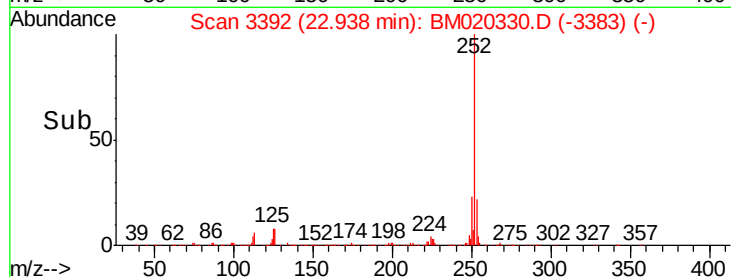
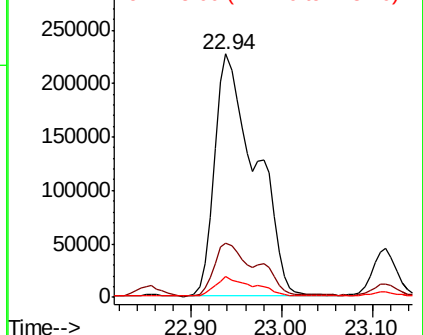
#89
Benzo(k)fluoranthene
Concen: 34.054 ng
RT: 22.94 min Scan# 3392
Delta R.T. -0.05 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Instrument :
BNA_M
ClientSampleId :

Tot Ion:252 Resp: 705174
Ion Ratio Lower Upper
252 100
253 22.4 16.9 25.3
125 8.3 5.2 7.8#

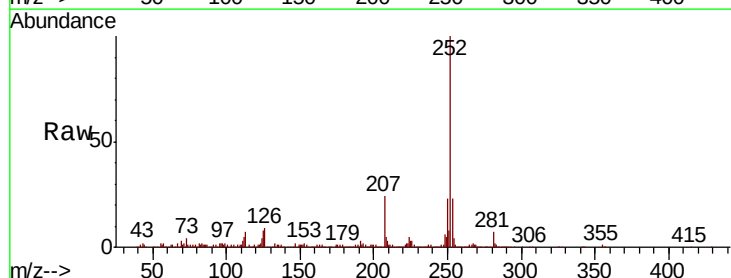


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

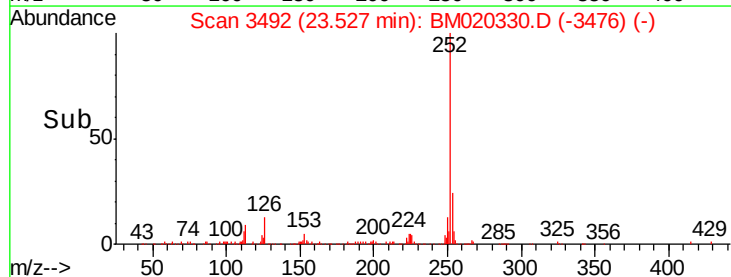
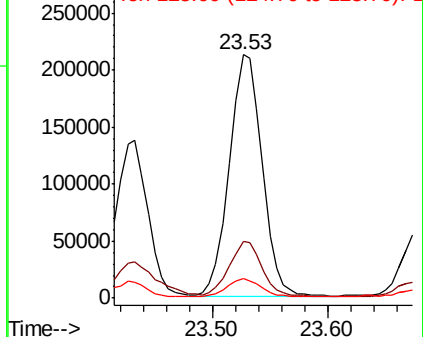


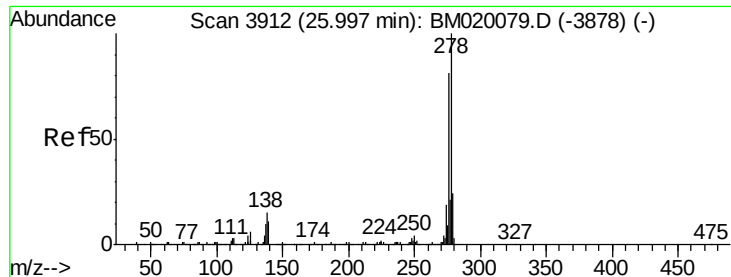
#90
Benzo(a)pyrene
Concen: 20.135 ng
RT: 23.53 min Scan# 3492
Delta R.T. -0.01 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Tgt Ion:252 Resp: 415189
Ion Ratio Lower Upper
252 100
253 23.4 17.3 25.9
125 7.9 6.0 9.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

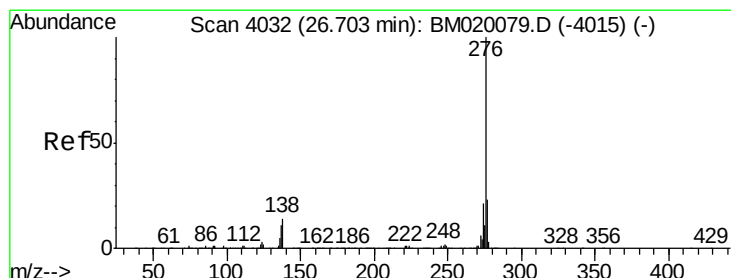
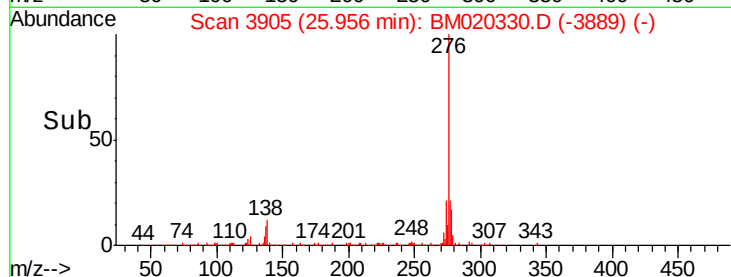
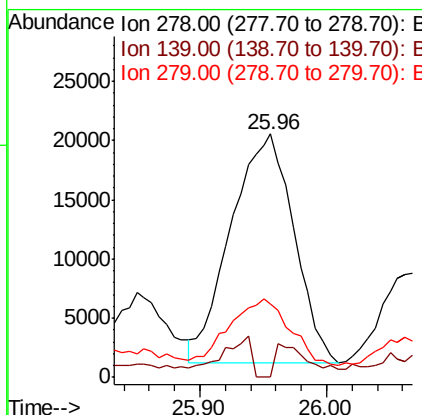
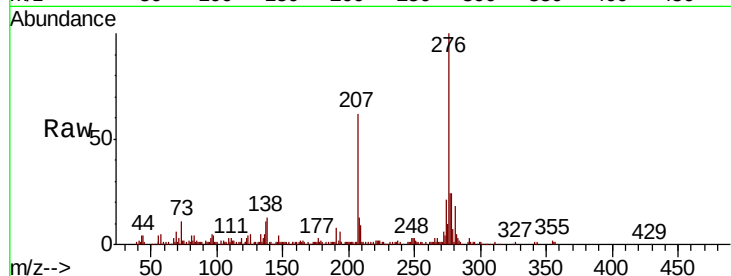




#91
Dibenzo(a,h)anthracene
Concen: 3.099 ng
RT: 25.96 min Scan# 3905
Delta R.T. -0.01 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Instrument :
BNA_M
ClientSampled :

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	8.6	13.0#
279	29.9	18.8	28.2#



#92
Benzo(g,h,i)perylene
Concen: 13.654 ng
RT: 26.66 min Scan# 4025
Delta R.T. 0.00 min
Lab File: BM020330.D
Acq: 14 May 2019 13:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.3	28.9
138	13.7	11.8	17.8

