

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050719\
 Data File : BM020189.D
 Acq On : 08 May 2019 07:06
 Operator : JU/SJ
 Sample : K2673-08DL 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 08 07:41:51 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	142131	20.00	ng	0.00
21) Naphthalene-d8	10.59	136	552439	20.00	ng	0.00
39) Acenaphthene-d10	14.43	164	323108	20.00	ng	0.00
64) Phenanthrene-d10	17.19	188	703318	20.00	ng	0.00
76) Chrysene-d12	21.37	240	681625	20.00	ng	0.00
87) Perylene-d12	23.66	264	819881	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	131670	15.14	ng	0.00
7) Phenol-d6	6.96	99	185152	15.59	ng	0.00
23) Nitrobenzene-d5	8.96	82	128484	9.18	ng	0.00
42) 2,4,6-Tribromophenol	15.93	330	72036	14.36	ng	0.00
45) 2-Fluorobiphenyl	13.05	172	245321	9.34	ng	0.00
79) Terphenyl-d14	19.80	244	320300	8.20	ng	0.00

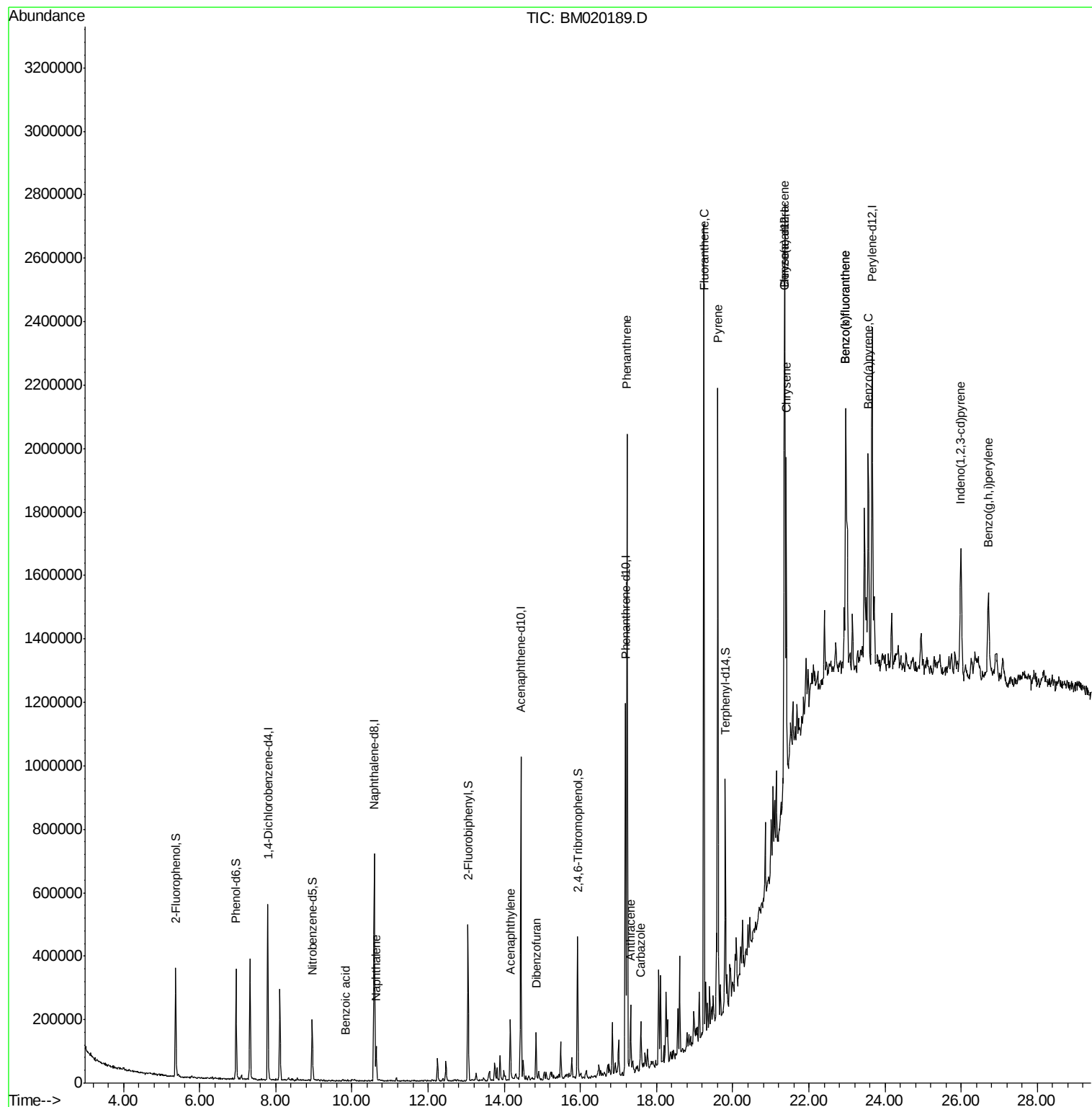
Target Compounds				Qvalue		
31) Naphthalene	10.63	128	77228	2.694	ng	98
32) Benzoic acid	9.82	122	146	6.635	ng	# 29
49) Acenaphthylene	14.16	152	128229	3.773	ng	97
55) Dibenzofuran	14.83	168	75313	2.291	ng	96
71) Phenanthrene	17.23	178	1167451	30.071	ng	99
72) Anthracene	17.32	178	122452	3.155	ng	98
73) Carbazole	17.59	167	91010	2.598	ng	99
75) Fluoranthene	19.24	202	1494771	30.430	ng	99
78) Pyrene	19.61	202	1241549	27.130	ng	100
81) Benzo(a)anthracene	21.35	228	479649	10.034	ng	99
83) Chrysene	21.40	228	545158	11.759	ng	97
86) Indeno(1,2,3-cd)pyrene	25.99	276	402689	7.303	ng	# 100
88) Benzo(b)fluoranthene	22.97	252	1018425	18.811	ng	98
89) Benzo(k)fluoranthene	22.97	252	1021153	20.677	ng	# 98
90) Benzo(a)pyrene	23.56	252	517257	10.518	ng	# 93
92) Benzo(g,h,i)perylene	26.71	276	377723	7.779	ng	99

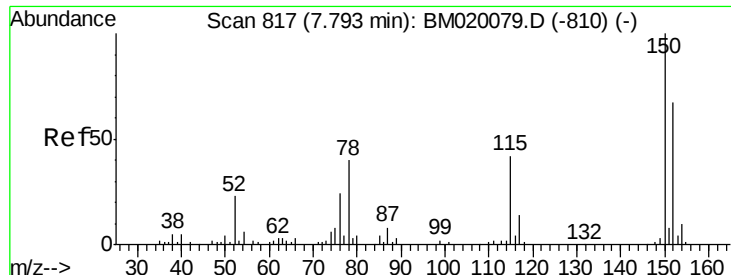
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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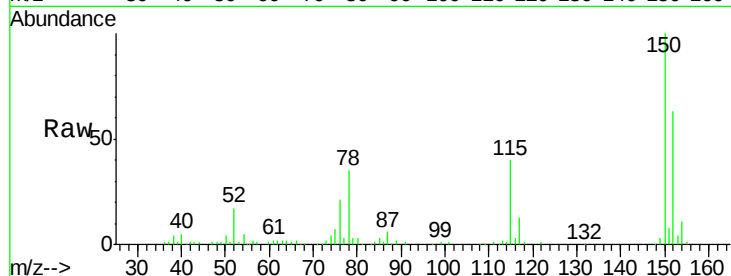


#1

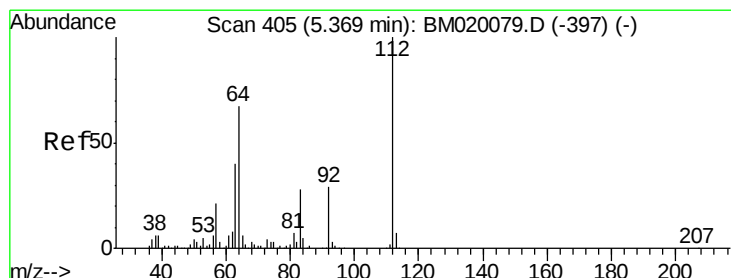
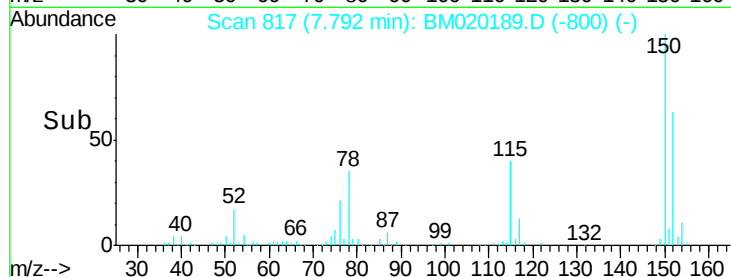
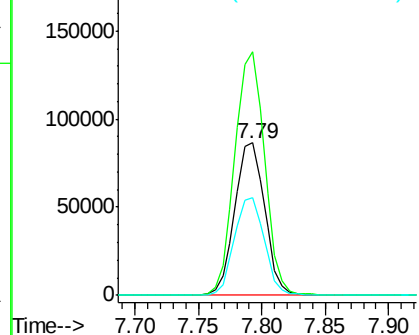
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.79 min Scan# 817
Delta R.T. -0.00 min
Lab File: BM020189.D
Acq: 08 May 2019 07:06

Instrument :
BNA_M
ClientSampleId :

Tot Ion:152 Resp: 142131
Ion Ratio Lower Upper
152 100
150 159.5 119.8 179.8
115 64.4 50.8 76.2



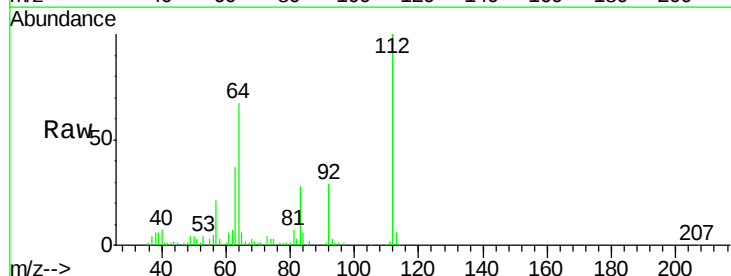
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



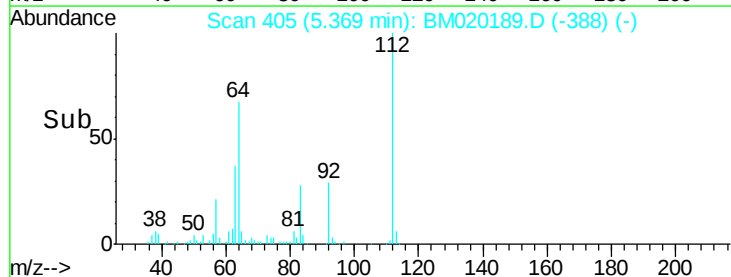
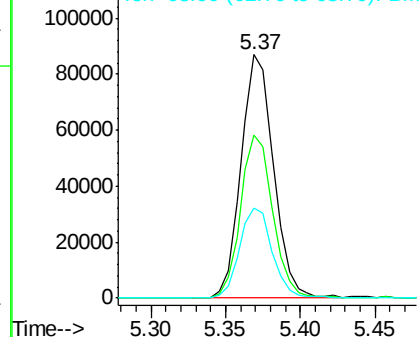
#5

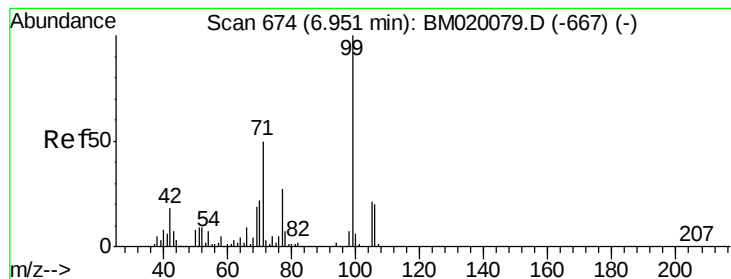
2-Fluorophenol
Concen: 15.143 ng
RT: 5.37 min Scan# 405
Delta R.T. -0.00 min
Lab File: BM020189.D
Acq: 08 May 2019 07:06

Tgt Ion:112 Resp: 131670
Ion Ratio Lower Upper
112 100
64 66.7 53.8 80.6
63 37.2 32.3 48.5



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: 15.587 ng

RT: 6.96 min Scan# 675

Delta R.T. 0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampleId :

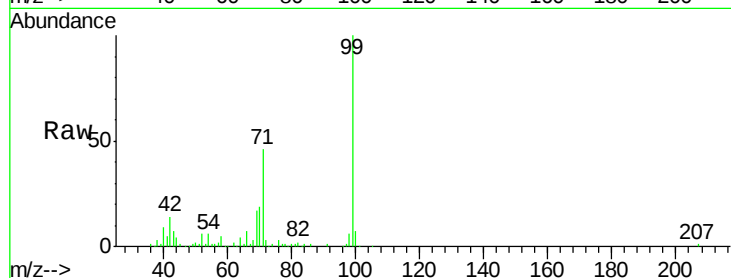
Tot Ion: 99 Resp: 185152

Ion Ratio Lower Upper

99 100

42 14.2 14.2 21.2

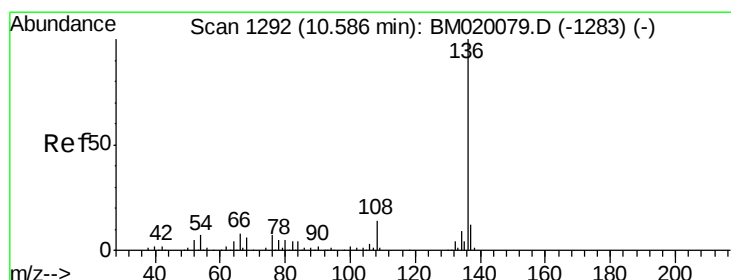
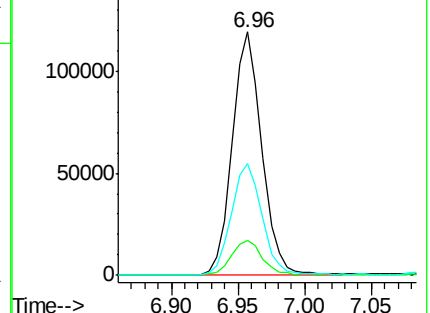
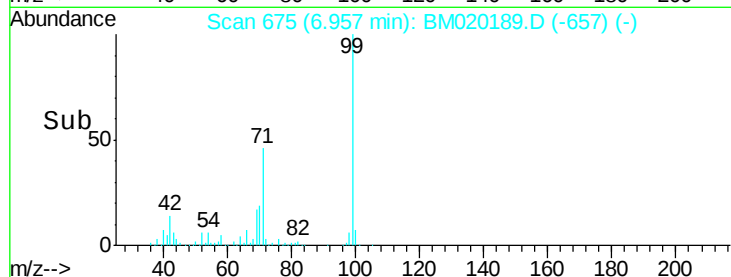
71 45.9 40.3 60.5



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: 10.59 min Scan# 1292

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Tgt Ion: 136 Resp: 552439

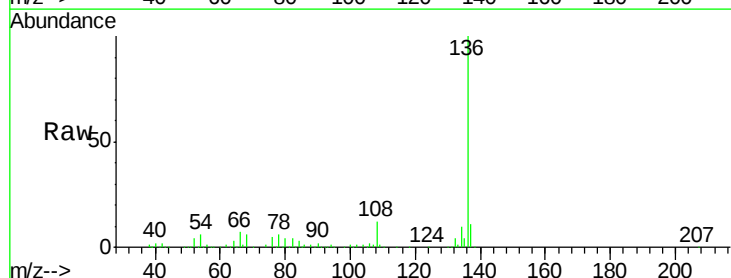
Ion Ratio Lower Upper

136 100

137 11.1 9.6 14.4

54 5.8 5.5 8.3

68 6.0 4.6 6.8

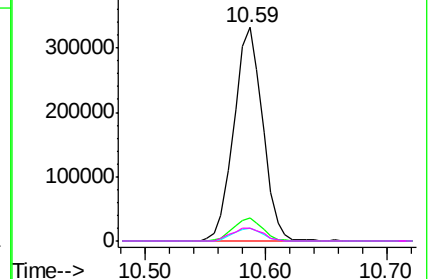
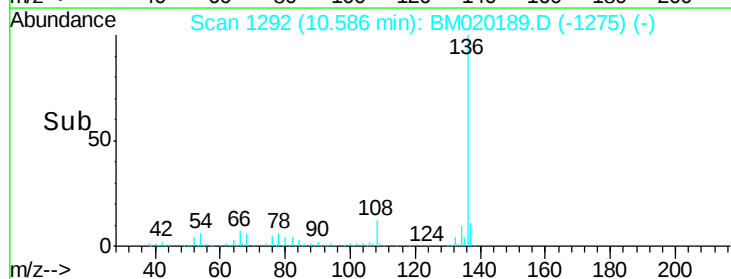


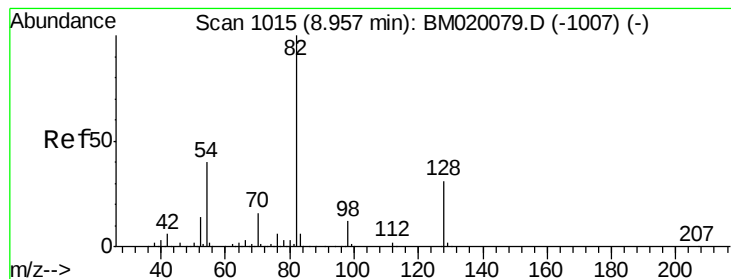
Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

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: 9.182 ng

RT: 8.96 min Scan# 1015

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampleId :

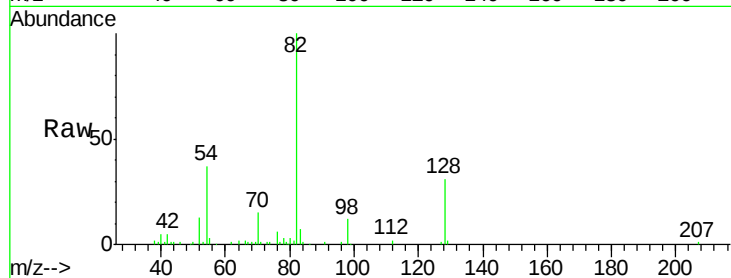
Tot Ion: 82 Resp: 128484

Ion Ratio Lower Upper

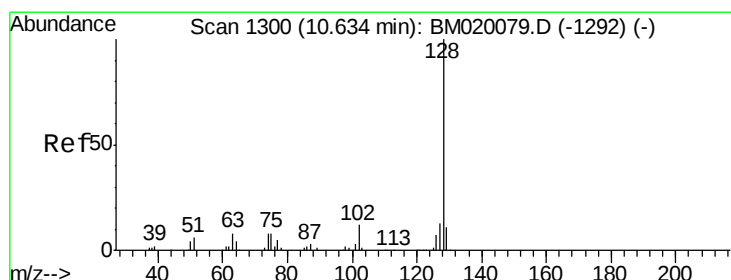
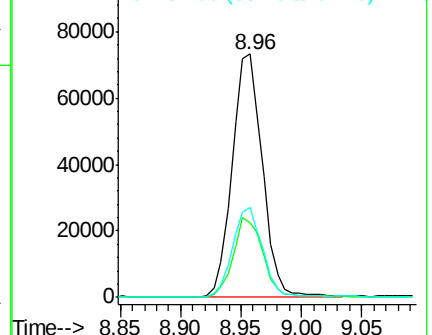
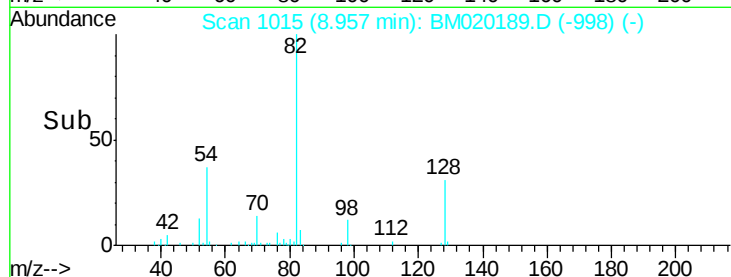
82 100

128 30.9 25.2 37.8

54 37.2 31.9 47.9



Abundance Ion 82.00 (81.70 to 82.70): BM020189.D (-998) (-)



#31

Naphthalene

Concen: 2.694 ng

RT: 10.63 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

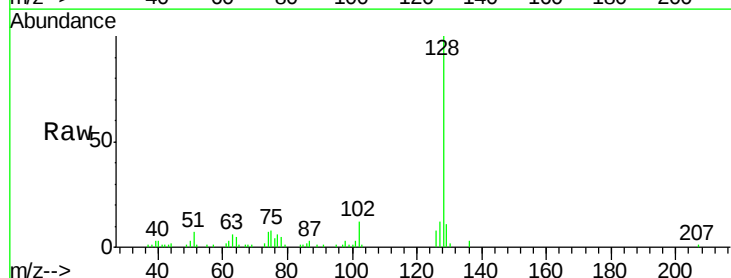
Tgt Ion: 128 Resp: 77228

Ion Ratio Lower Upper

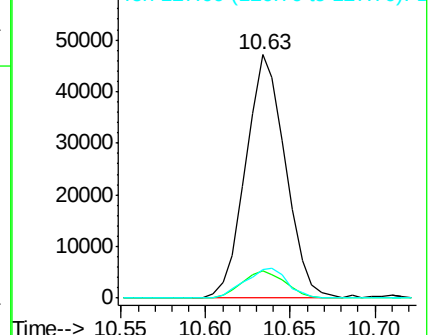
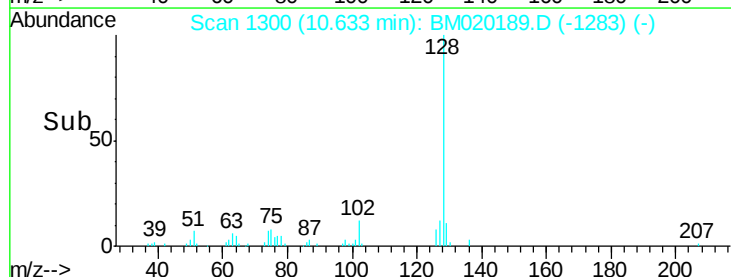
128 100

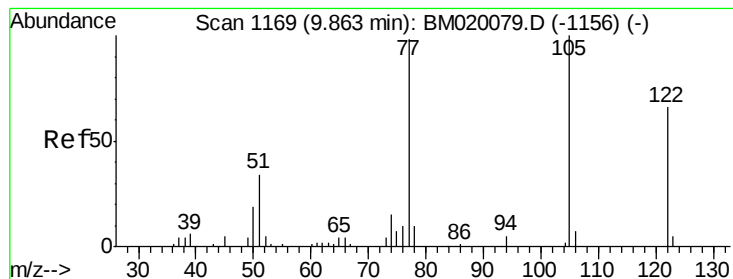
129 11.1 9.0 13.4

127 12.0 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): BM020189.D (-1283) (-)





#32

Benzoic acid

Concen: 6.635 ng

RT: 9.82 min Scan# 1161

Delta R.T. -0.05 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampled :

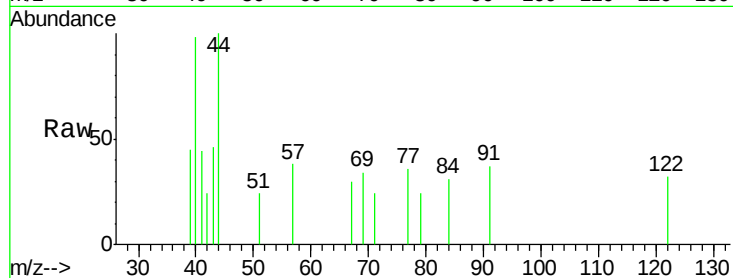
Tot Ion:122 Resp: 146

Ion Ratio Lower Upper

122 100

105 0.0 122.5 162.5#

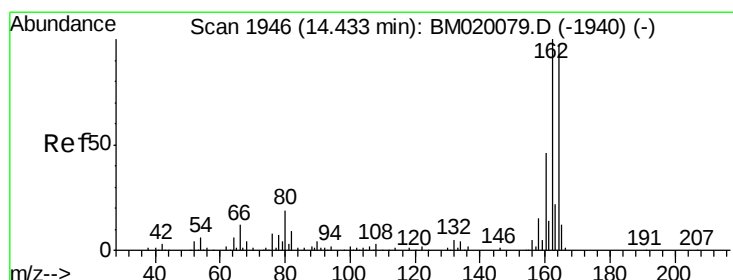
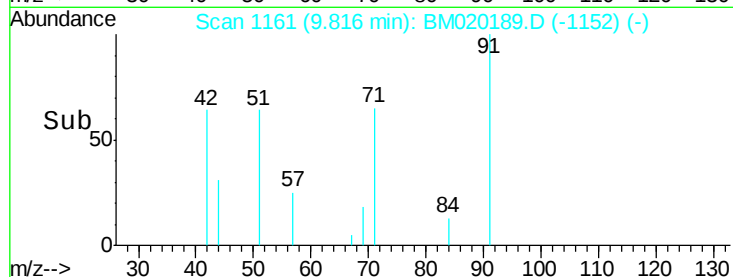
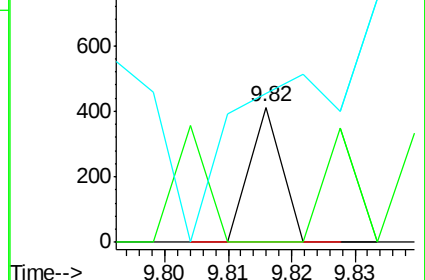
77 110.2 123.3 163.3#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.43 min Scan# 1946

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

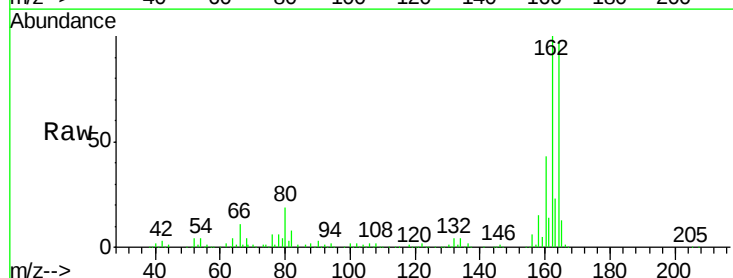
Tgt Ion:164 Resp: 323108

Ion Ratio Lower Upper

164 100

162 102.7 82.2 123.2

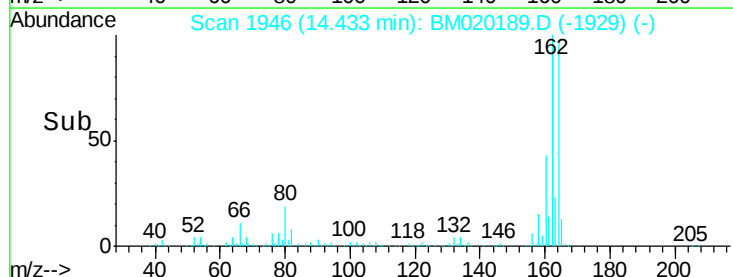
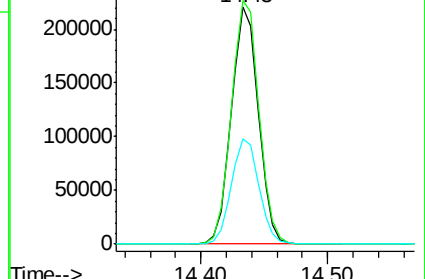
160 44.6 37.6 56.4

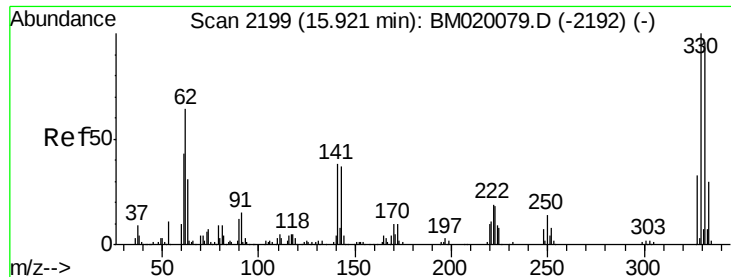


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

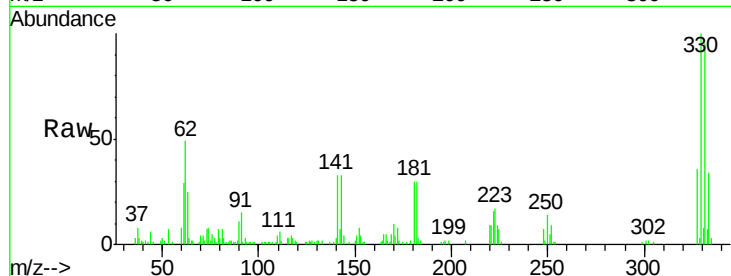




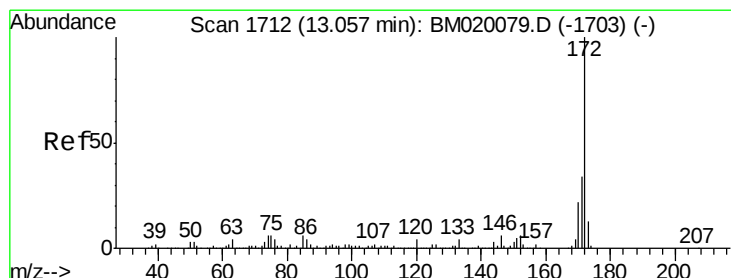
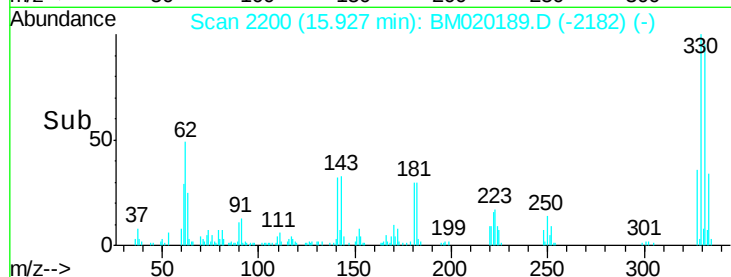
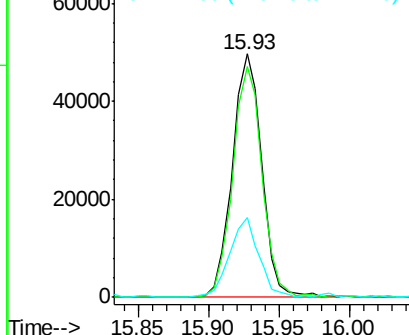
#42
 2,4,6-Tribromophenol
 Concen: 14.363 ng
 RT: 15.93 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BM020189.D
 Acq: 08 May 2019 07:06

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:330 Resp: 72036
 Ion Ratio Lower Upper
 330 100
 332 94.7 76.8 115.2
 141 32.7 29.2 43.8

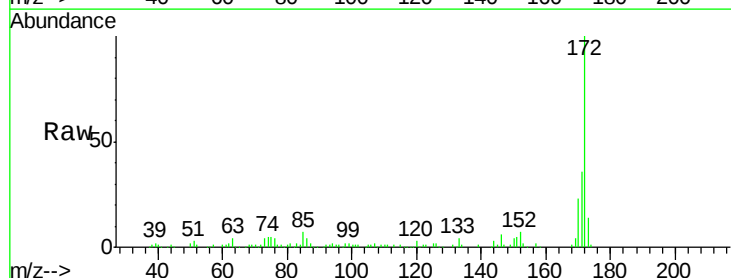


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

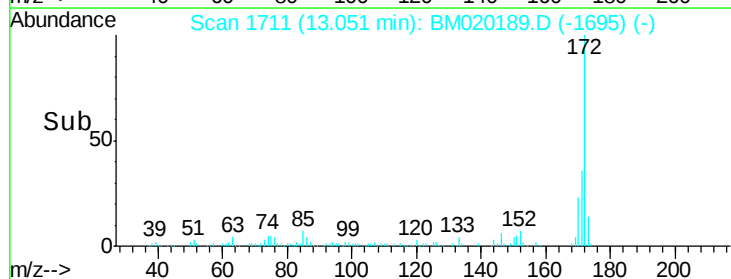
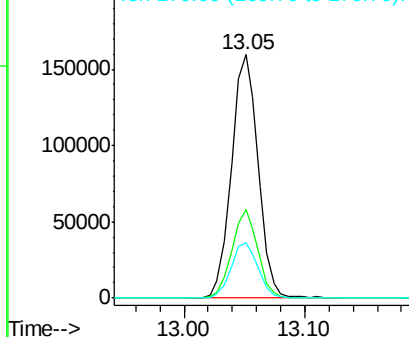


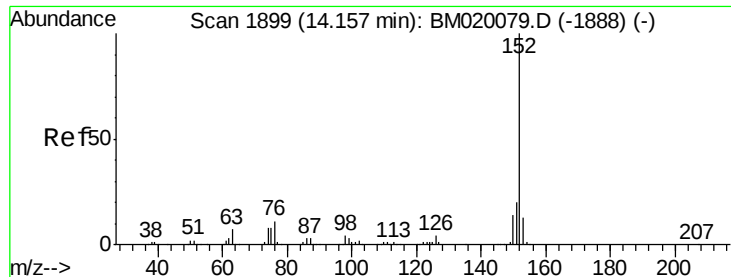
#45
 2-Fluorobiphenyl
 Concen: 9.342 ng
 RT: 13.05 min Scan# 1711
 Delta R.T. -0.01 min
 Lab File: BM020189.D
 Acq: 08 May 2019 07:06

Tgt Ion:172 Resp: 245321
 Ion Ratio Lower Upper
 172 100
 171 36.2 27.3 40.9
 170 22.9 17.9 26.9



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 3.773 ng

RT: 14.16 min Scan# 1899

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

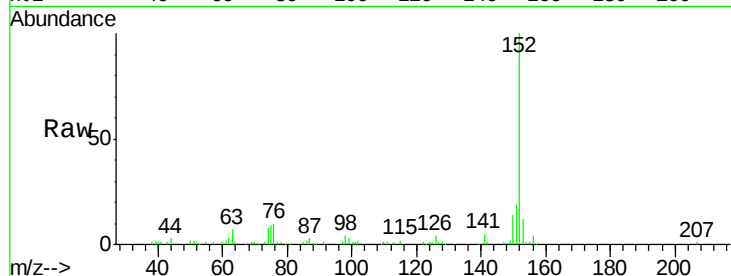
Instrument :

BNA_M

ClientSampled :

Tot Ion:152 Resp: 128229

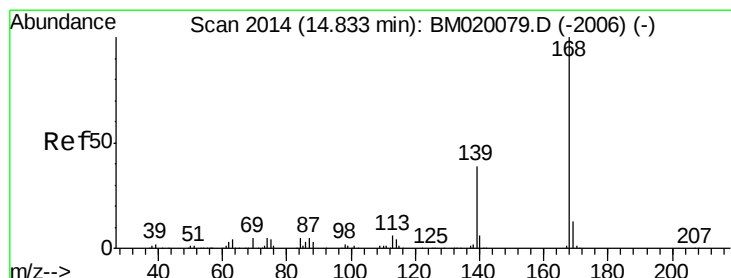
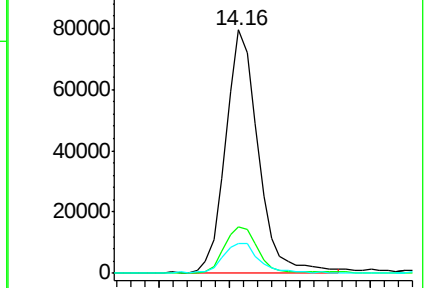
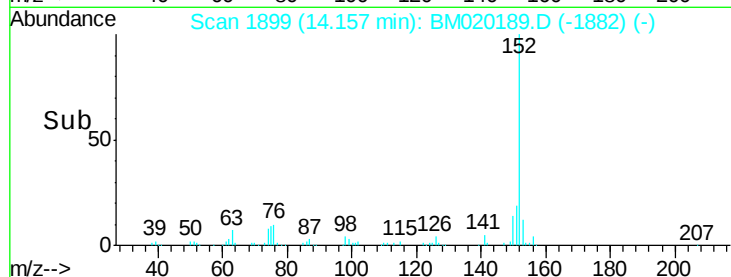
Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.2	24.2
153	12.1	10.6	16.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#55

Dibenzofuran

Concen: 2.291 ng

RT: 14.83 min Scan# 2014

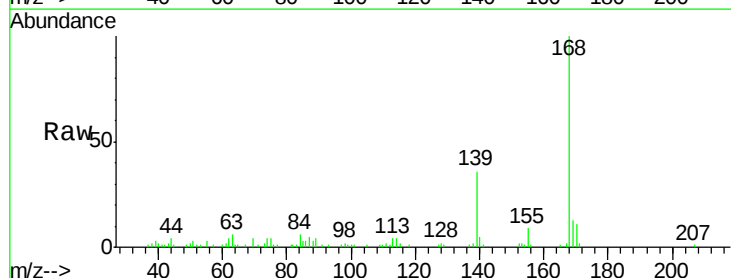
Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Tgt Ion:168 Resp: 75313

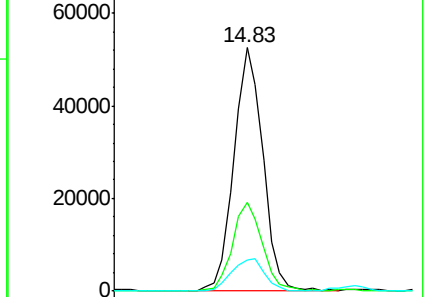
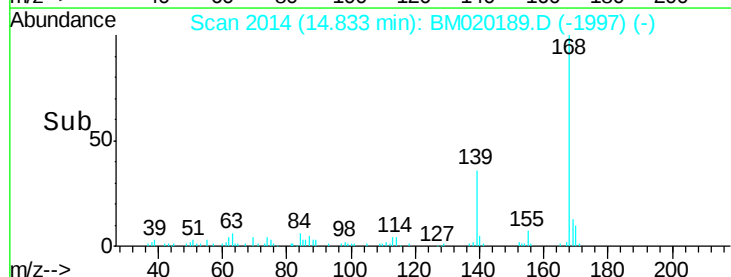
Ion	Ratio	Lower	Upper
168	100		
139	36.3	31.1	46.7
169	12.7	10.6	16.0

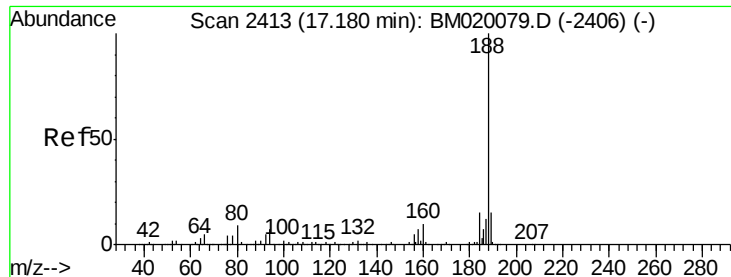


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.19 min Scan# 2414

Delta R.T. 0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampleId :

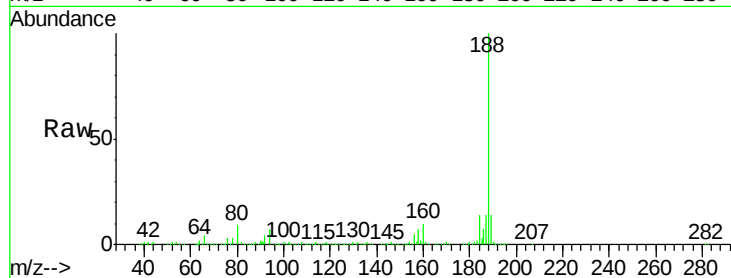
Tot Ion:188 Resp: 703318

Ion Ratio Lower Upper

188 100

94 7.2 5.8 8.6

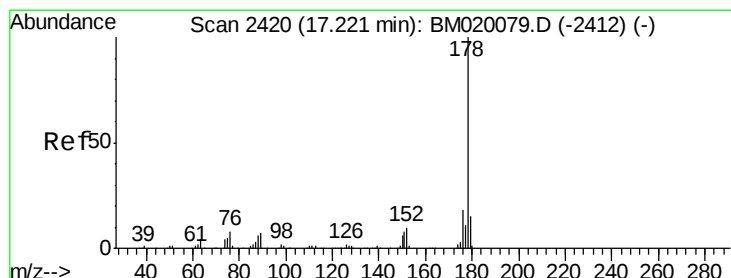
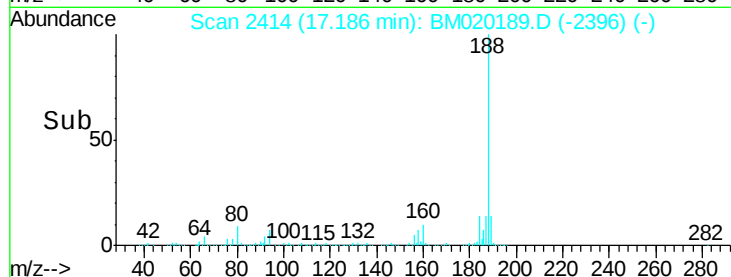
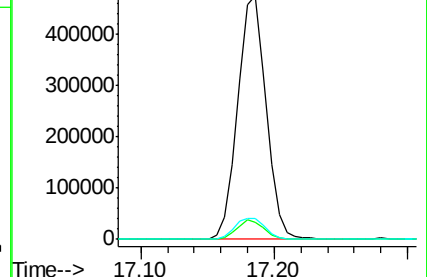
80 8.6 7.4 11.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#71

Phenanthrene

Concen: 30.071 ng

RT: 17.23 min Scan# 2421

Delta R.T. 0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

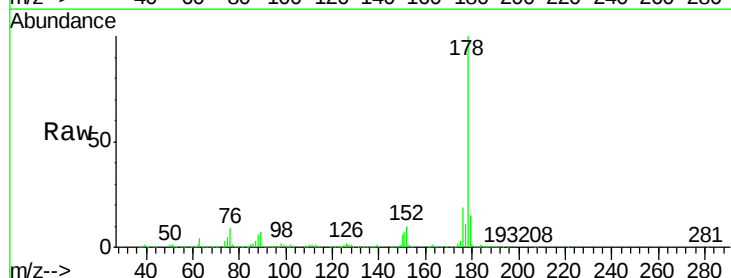
Tgt Ion:178 Resp: 1167451

Ion Ratio Lower Upper

178 100

176 18.8 14.6 21.8

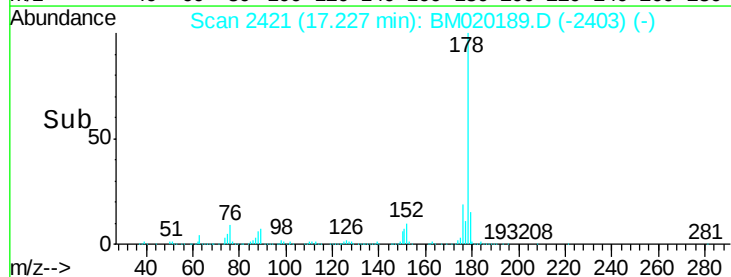
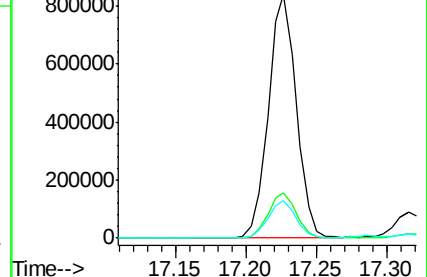
179 15.4 12.4 18.6

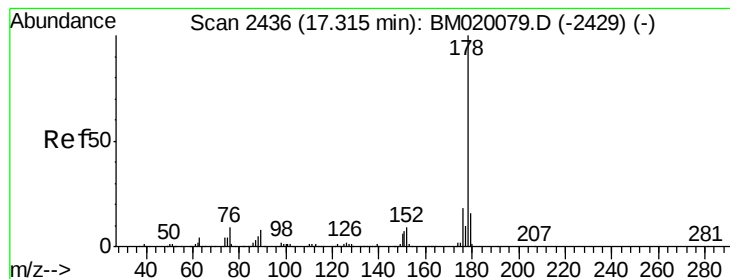


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 3.155 ng

RT: 17.32 min Scan# 2436

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampled :

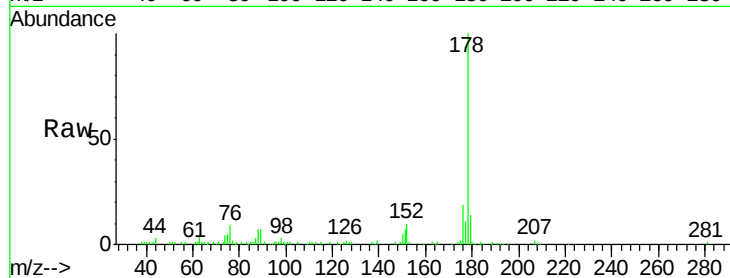
Tot Ion:178 Resp: 122452

Ion Ratio Lower Upper

178 100

176 18.8 14.6 22.0

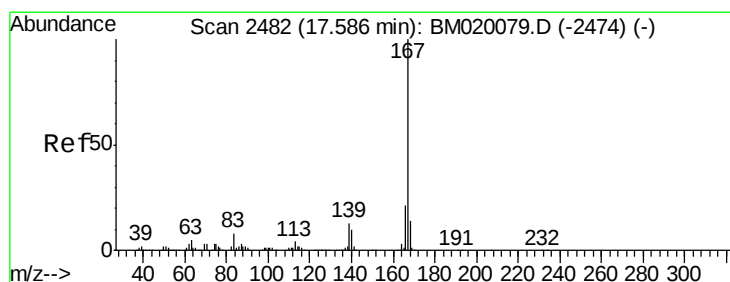
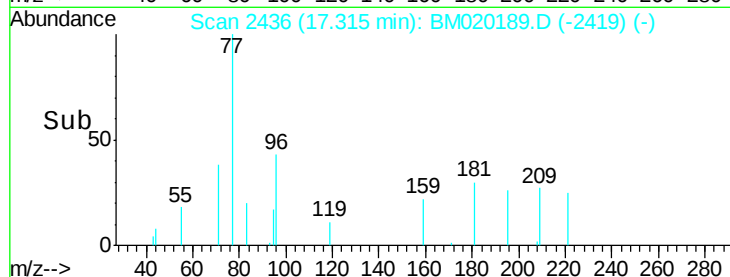
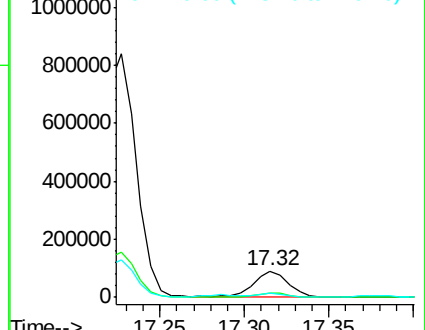
179 14.3 12.4 18.6



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: 2.598 ng

RT: 17.59 min Scan# 2483

Delta R.T. 0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

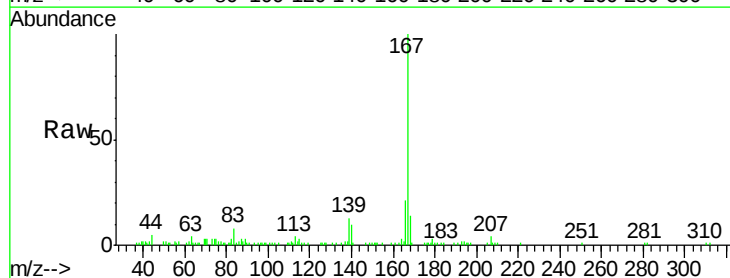
Tgt Ion:167 Resp: 91010

Ion Ratio Lower Upper

167 100

166 20.9 17.0 25.6

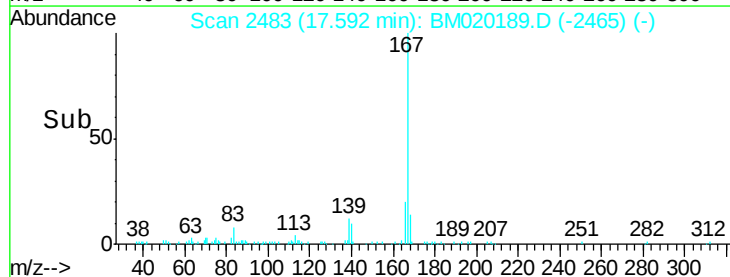
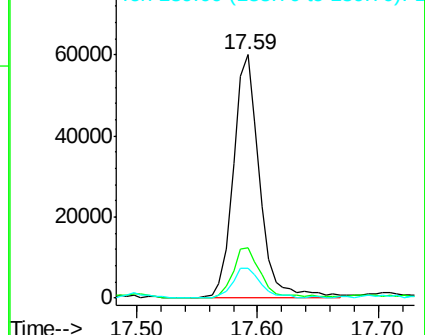
139 12.5 10.6 16.0

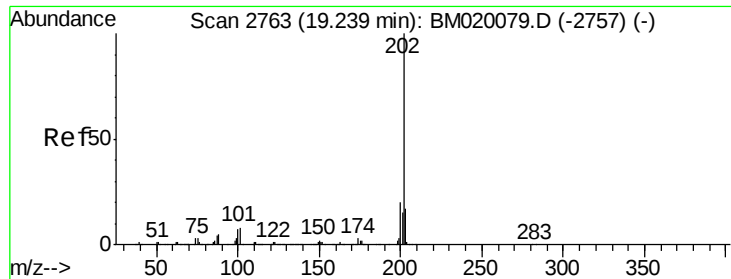


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 30.430 ng

RT: 19.24 min Scan# 2764

Delta R.T. 0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampleId :

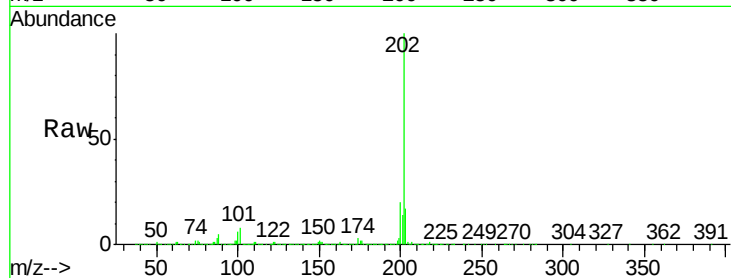
Tot Ion:202 Resp: 1494771

Ion Ratio Lower Upper

202 100

101 7.8 0.0 28.4

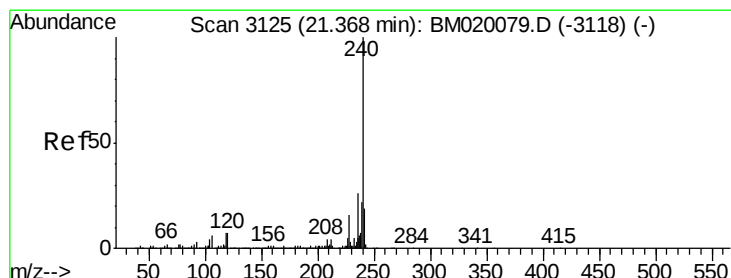
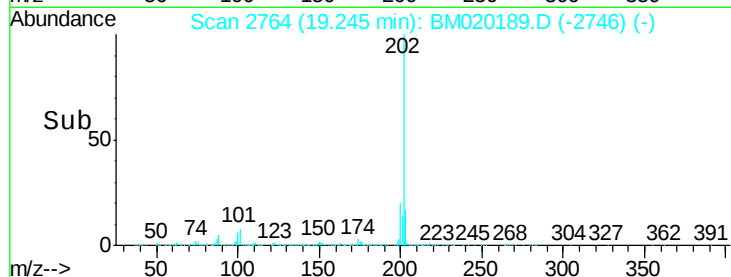
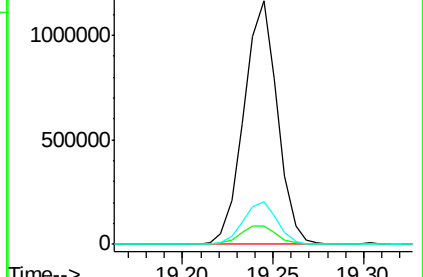
203 17.4 0.0 37.4



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: 21.37 min Scan# 3125

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

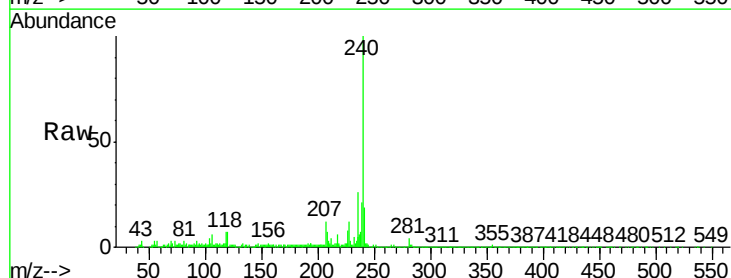
Tgt Ion:240 Resp: 681625

Ion Ratio Lower Upper

240 100

120 7.4 5.6 8.4

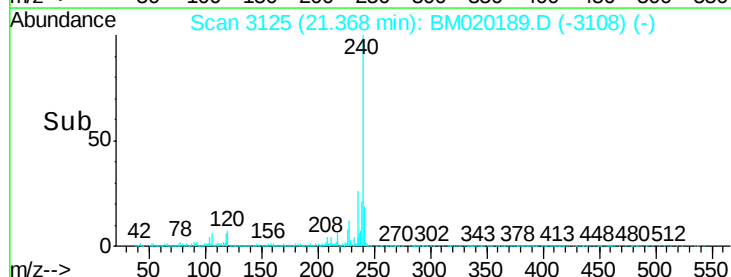
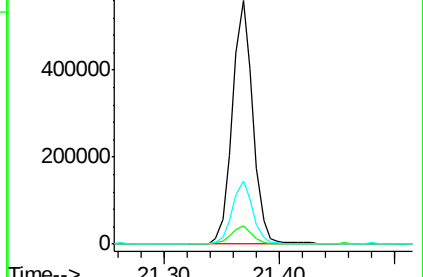
236 25.8 20.9 31.3

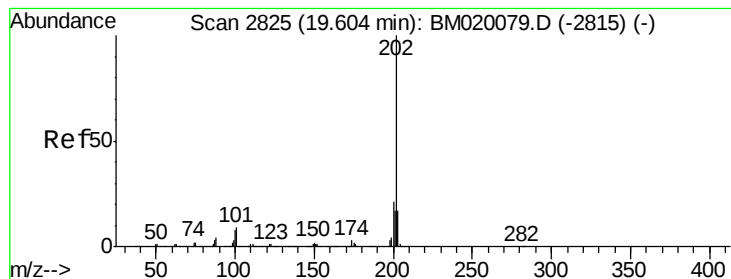


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 27.130 ng

RT: 19.61 min Scan# 2826

Delta R.T. 0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampled :

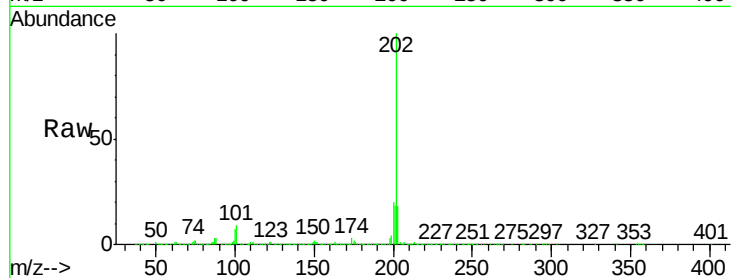
Tot Ion:202 Resp: 1241549

Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

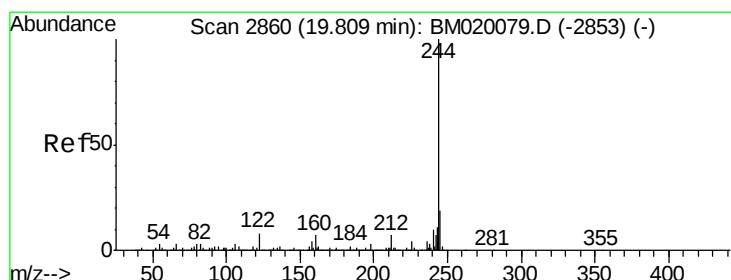
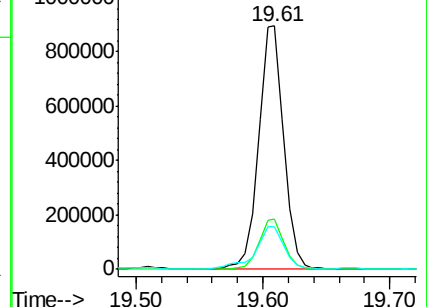
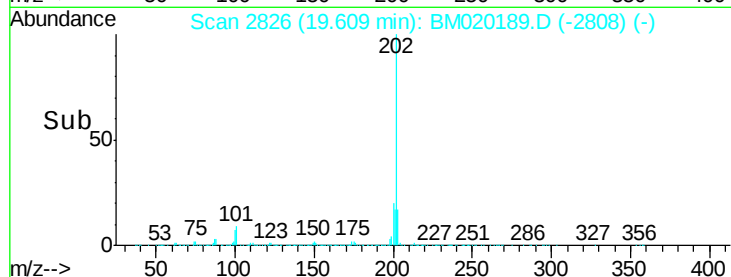
203 17.6 13.9 20.9



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: 8.196 ng

RT: 19.80 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

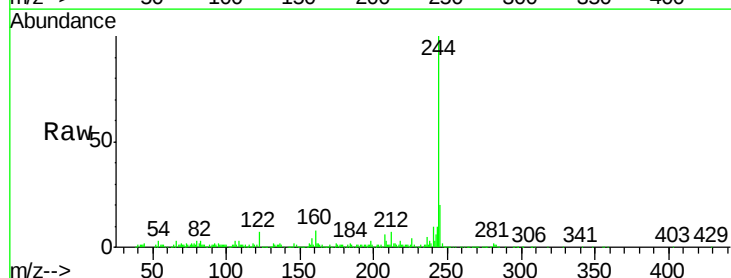
Tgt Ion:244 Resp: 320300

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

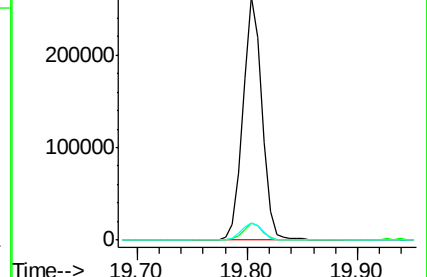
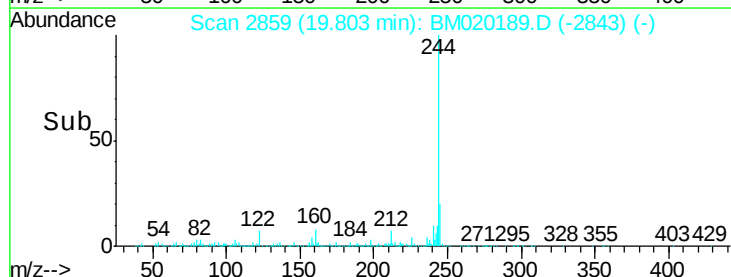
122 7.1 6.2 9.2

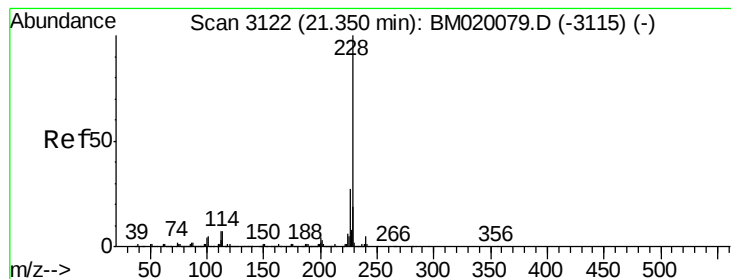


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 10.034 ng

RT: 21.35 min Scan# 3122

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampled :

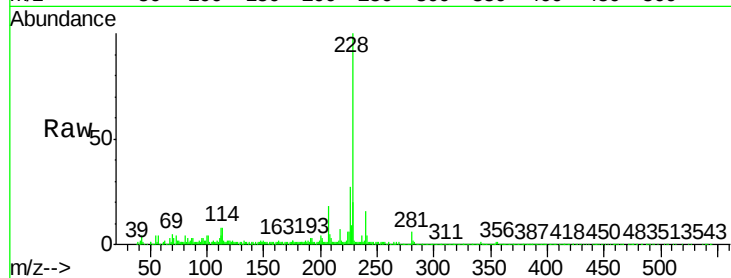
Tot Ion:228 Resp: 479649

Ion Ratio Lower Upper

228 100

226 27.2 21.3 31.9

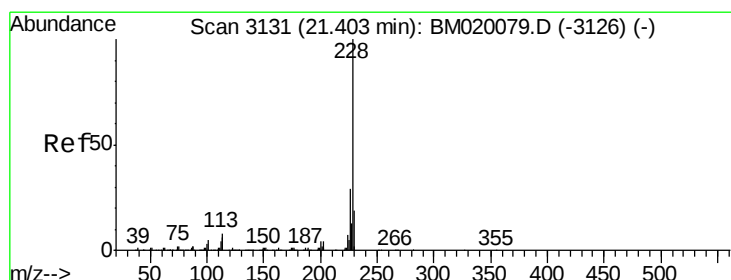
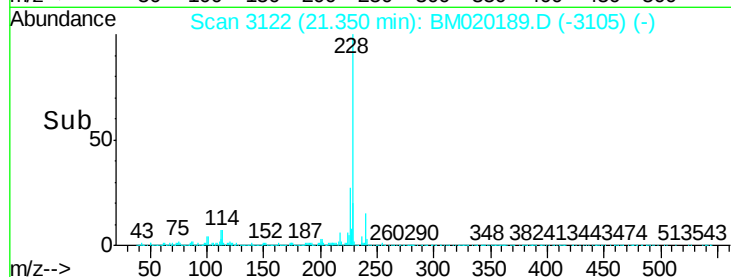
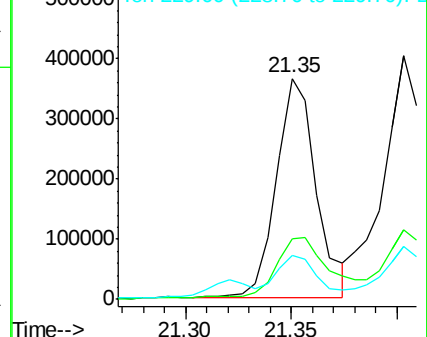
229 20.1 15.5 23.3



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: 11.759 ng

RT: 21.40 min Scan# 3131

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

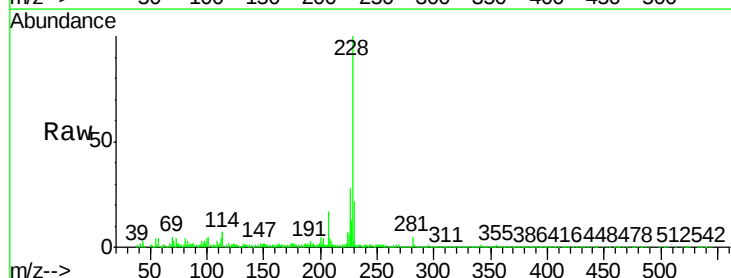
Tgt Ion:228 Resp: 545158

Ion Ratio Lower Upper

228 100

226 28.5 23.0 34.6

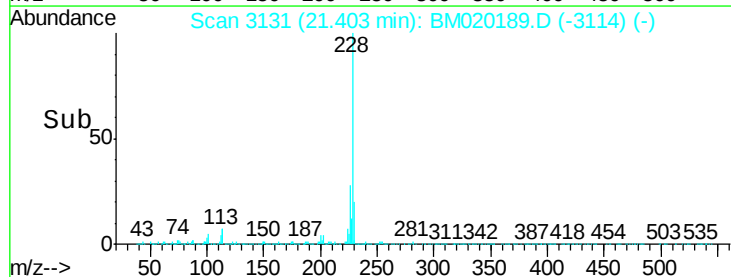
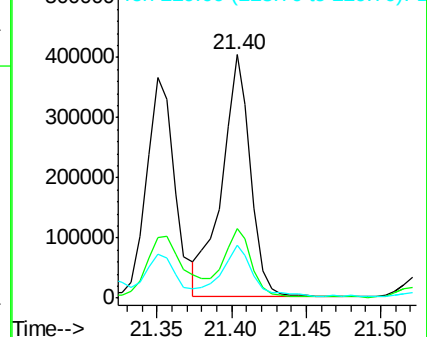
229 22.0 15.5 23.3

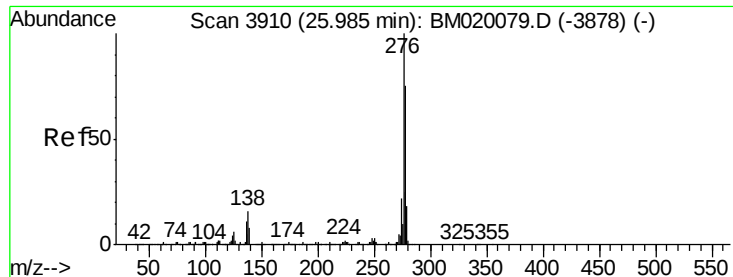


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

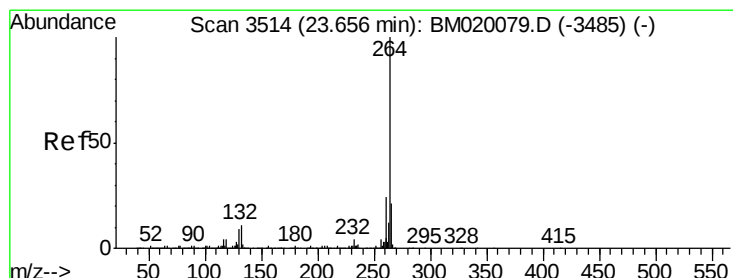
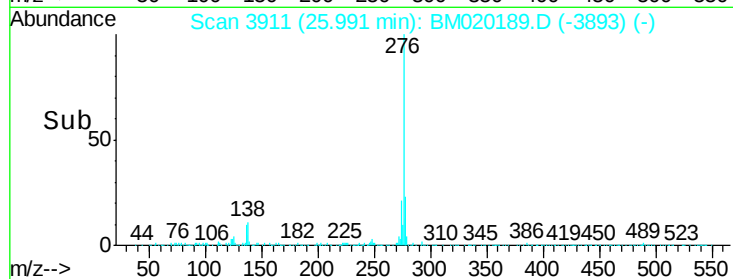
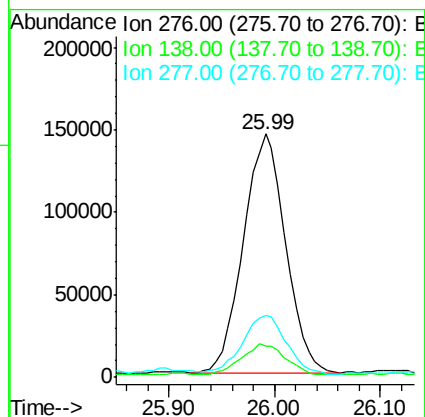
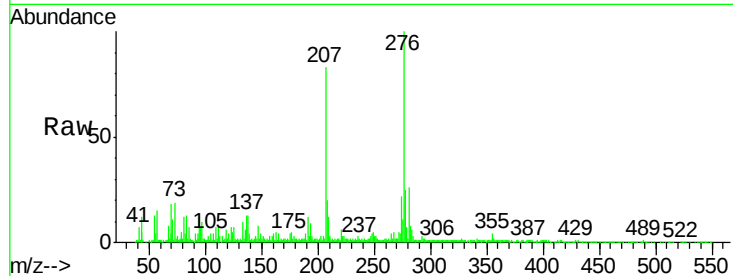




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.303 ng
 RT: 25.99 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: BM020189.D
 Acq: 08 May 2019 07:06

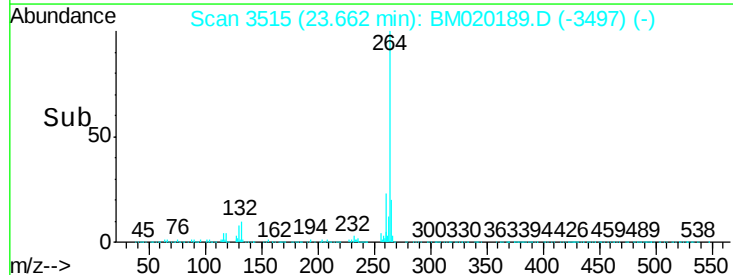
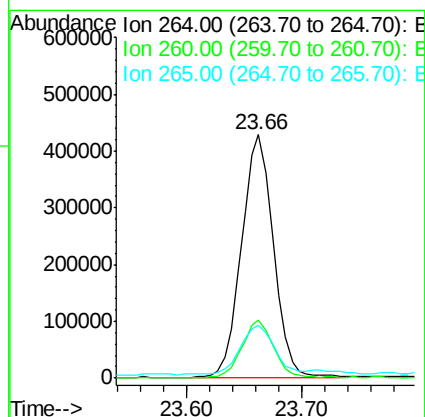
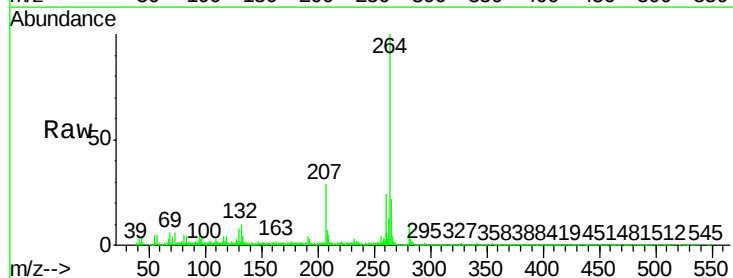
Instrument :
 BNA_M
 ClientSampleId :

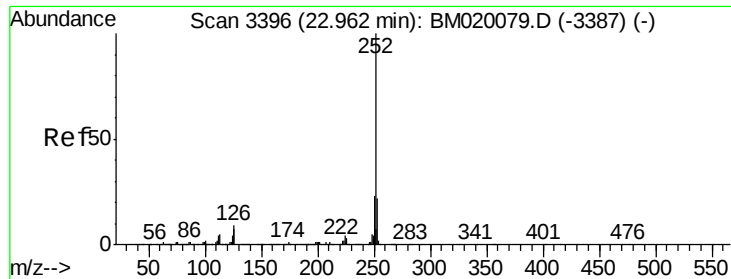
Tot Ion	Ratio	Lower	Upper
276	100		
138	13.5	0.0	0.0#
277	25.3	0.0	0.0#



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.66 min Scan# 3515
 Delta R.T. 0.01 min
 Lab File: BM020189.D
 Acq: 08 May 2019 07:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	21.8	16.9	25.3

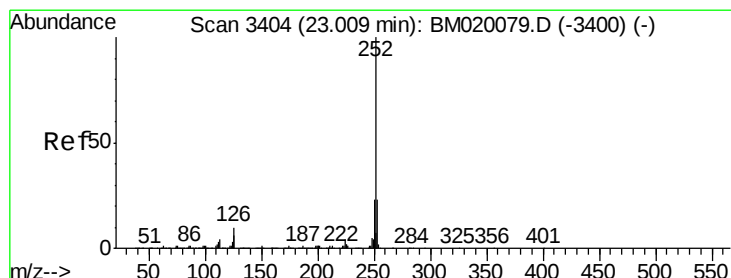
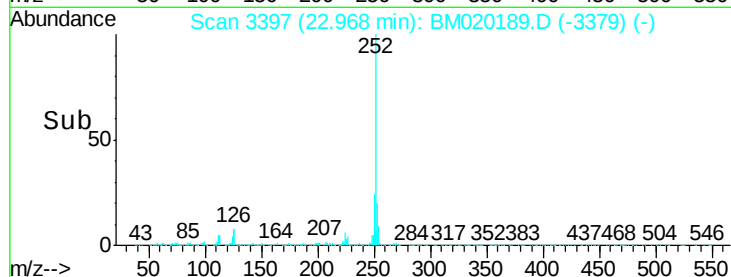
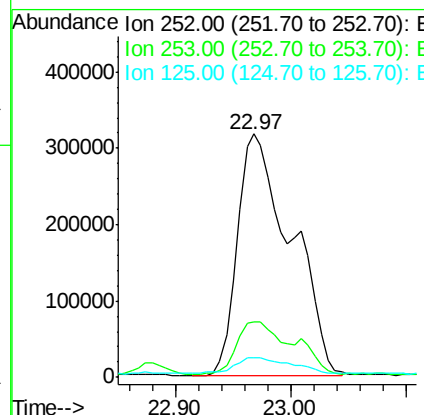
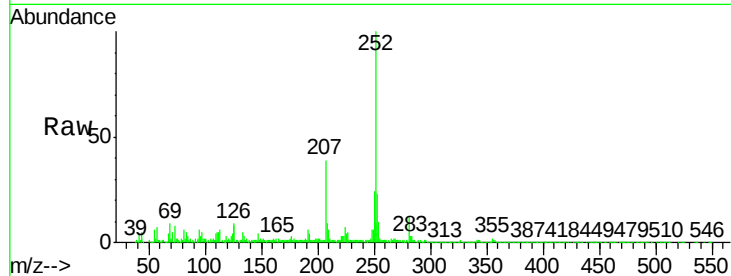




#88
Benzo(b)fluoranthene
Concen: 18.811 ng
RT: 22.97 min Scan# 3397
Delta R.T. 0.01 min
Lab File: BM020189.D
Acq: 08 May 2019 07:06

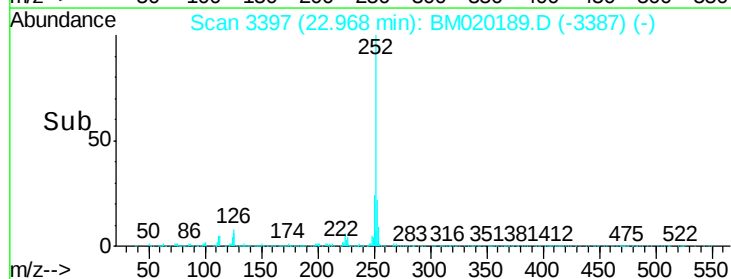
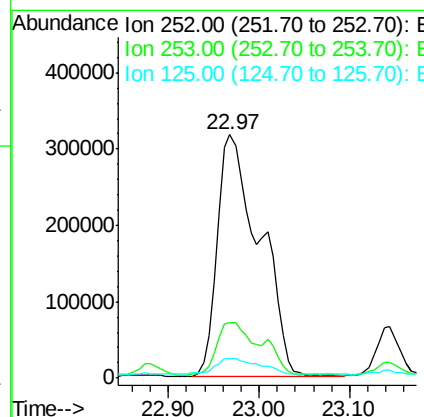
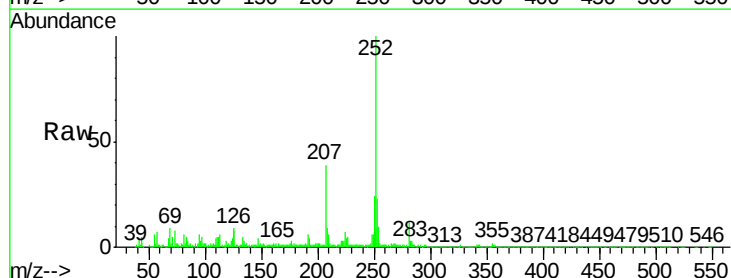
Instrument :
BNA_M
ClientSampleId :

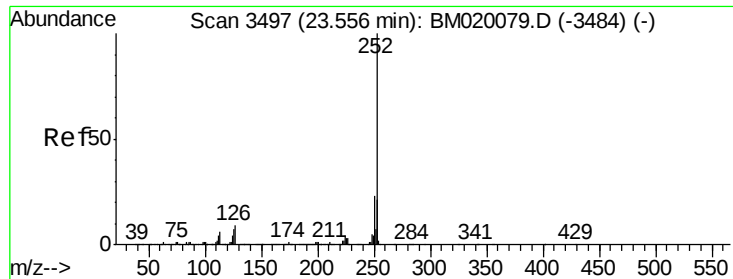
Tot Ion:252 Resp: 1018425
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 8.1 5.4 8.2



#89
Benzo(k)fluoranthene
Concen: 20.677 ng
RT: 22.97 min Scan# 3397
Delta R.T. -0.04 min
Lab File: BM020189.D
Acq: 08 May 2019 07:06

Tgt Ion:252 Resp: 1021153
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.8
125 8.1 5.4 8.0#





#90

Benzo(a)pyrene

Concen: 10.518 ng

RT: 23.56 min Scan# 3497

Delta R.T. -0.00 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

Instrument :

BNA_M

ClientSampleId :

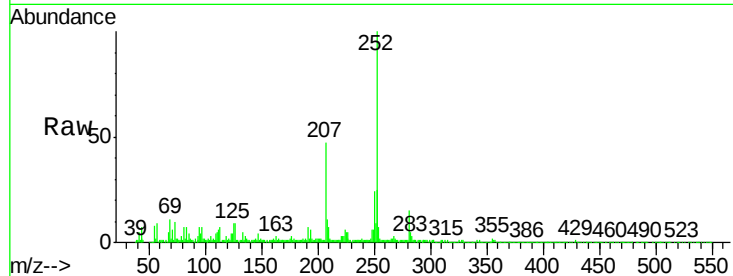
Tot Ion:252 Resp: 517257

Ion Ratio Lower Upper

252 100

253 24.8 17.0 25.6

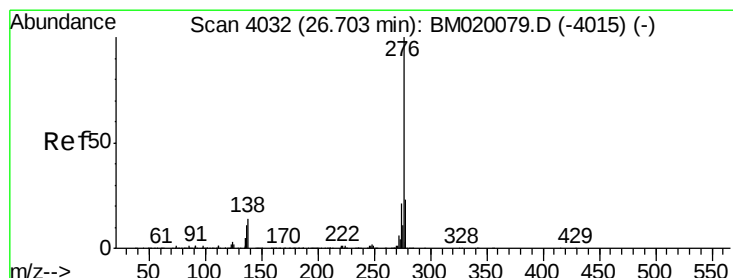
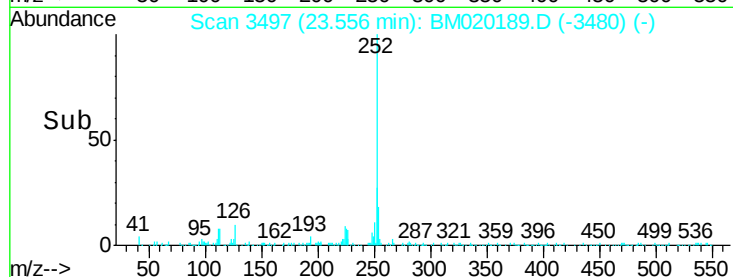
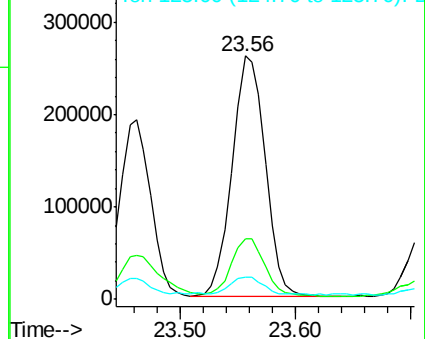
125 9.3 5.5 8.3#



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



#92

Benzo(g,h,i)perylene

Concen: 7.779 ng

RT: 26.71 min Scan# 4034

Delta R.T. 0.01 min

Lab File: BM020189.D

Acq: 08 May 2019 07:06

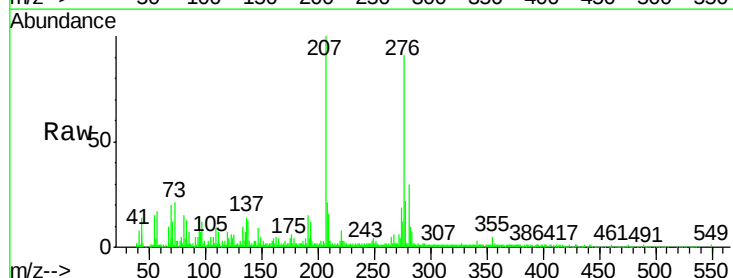
Tgt Ion:276 Resp: 377723

Ion Ratio Lower Upper

276 100

277 24.0 18.4 27.6

138 13.9 11.1 16.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

