

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
 Data File : BM020223.D
 Acq On : 09 May 2019 18:39
 Operator : JU/SJ
 Sample : K2645-07 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-02-050719-D

Quant Time: May 10 05:25:09 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

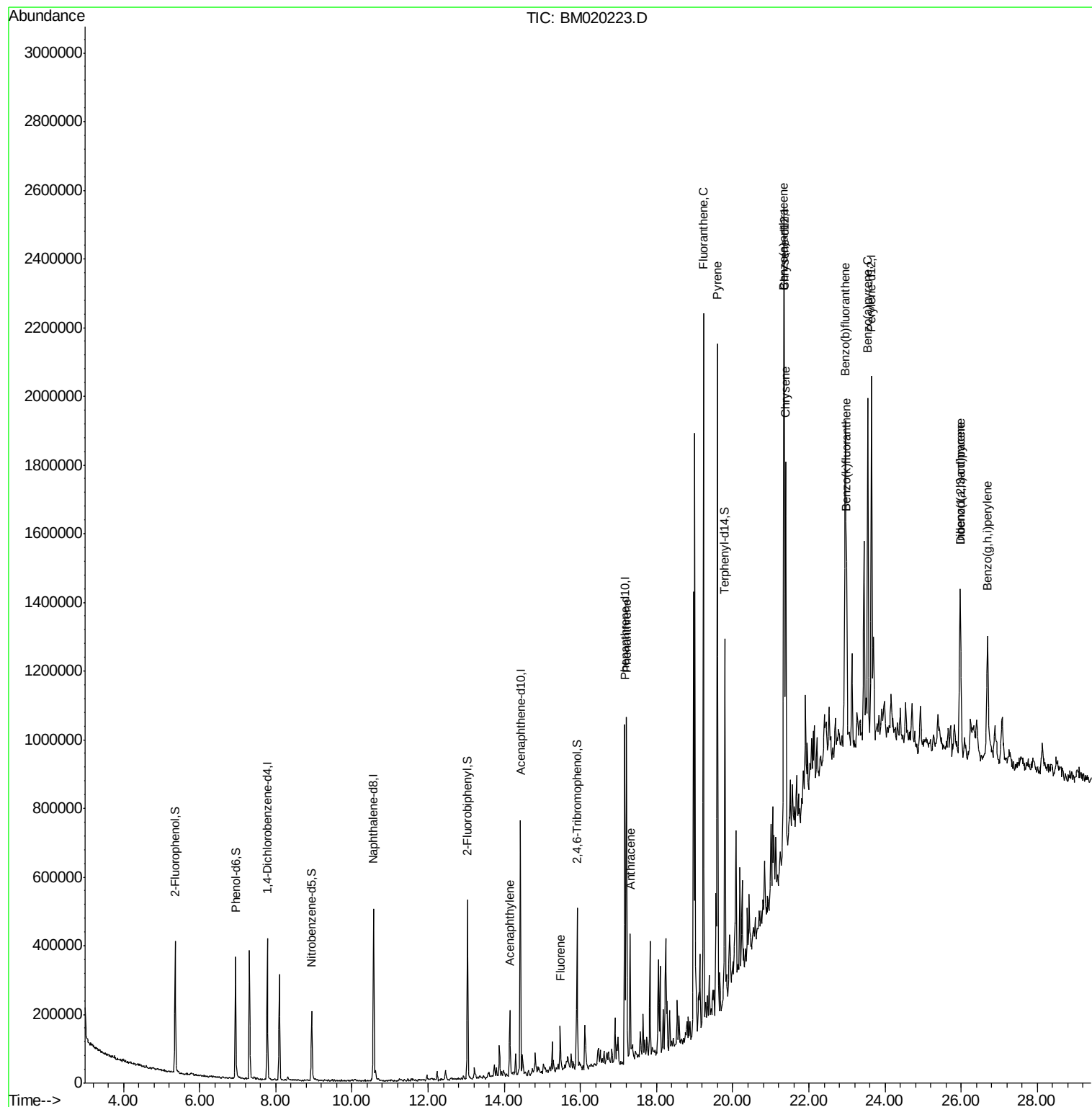
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	104932	20.00	ng	-0.02
21) Naphthalene-d8	10.57	136	391126	20.00	ng	-0.02
39) Acenaphthene-d10	14.42	164	236130	20.00	ng	-0.01
64) Phenanthrene-d10	17.17	188	554267	20.00	ng	-0.01
76) Chrysene-d12	21.36	240	629745	20.00	ng	-0.01
87) Perylene-d12	23.64	264	789939	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	152381	23.74	ng	-0.01
7) Phenol-d6	6.94	99	204802	23.35	ng	-0.01
23) Nitrobenzene-d5	8.95	82	140744	14.21	ng	-0.01
42) 2,4,6-Tribromophenol	15.91	330	81715	22.29	ng	-0.01
45) 2-Fluorobiphenyl	13.04	172	271022	14.12	ng	-0.02
79) Terphenyl-d14	19.79	244	467426	12.95	ng	-0.02
Target Compounds				Qvalue		
49) Acenaphthylene	14.15	152	131272	5.286	ng	99
58) Fluorene	15.47	166	58424	2.961	ng	95
71) Phenanthrene	17.21	178	581443	19.004	ng	100
72) Anthracene	17.30	178	225903	7.385	ng	99
75) Fluoranthene	19.23	202	1256316	32.453	ng	99
78) Pyrene	19.59	202	1162651	27.499	ng	99
81) Benzo(a)anthracene	21.34	228	748914	16.958	ng	97
83) Chrysene	21.39	228	642596	15.003	ng	98
86) Indeno(1,2,3-cd)pyrene	25.97	276	489396	9.606	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	983225m	18.849	ng	
89) Benzo(k)fluoranthene	22.99	252	304261m	6.394	ng	
90) Benzo(a)pyrene	23.54	252	716012	15.112	ng	# 95
91) Dibenzo(a,h)anthracene	25.97	278	134857	2.737	ng	# 82
92) Benzo(a,h,i)perylene	26.69	276	466152	9.964	ng	98

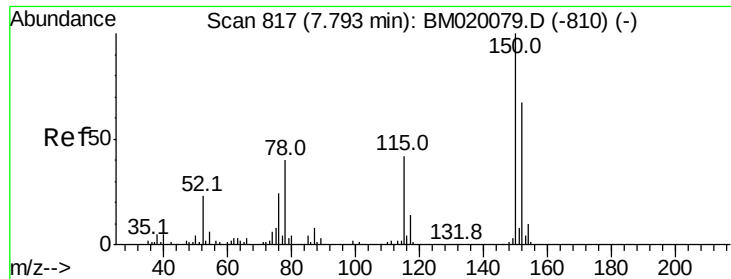
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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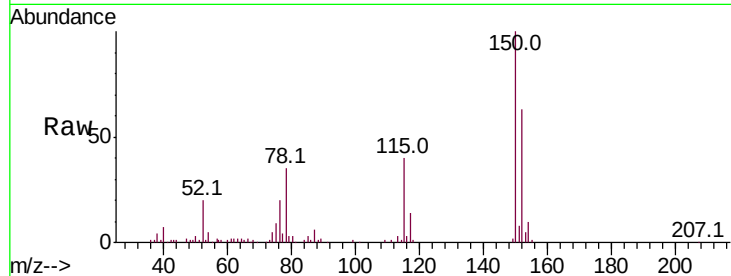


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.77 min Scan# 814
Delta R.T. -0.02 min
Lab File: BM020223.D
Acq: 09 May 2019 18:39

Instrument :
BNA_M
ClientSampleId :
PL-02-050719-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	119.8	179.8
115	63.3	50.8	76.2

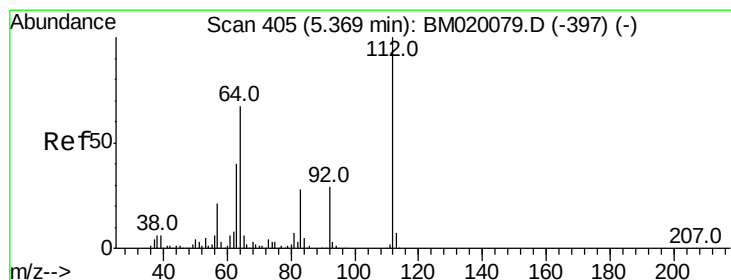
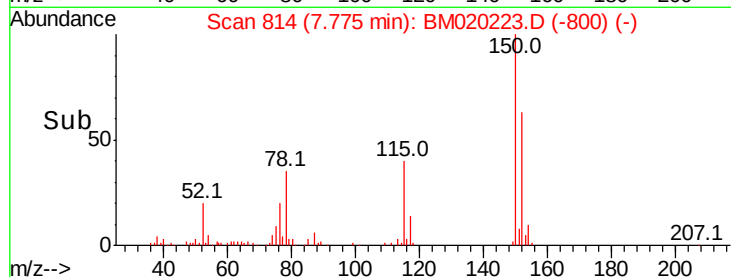
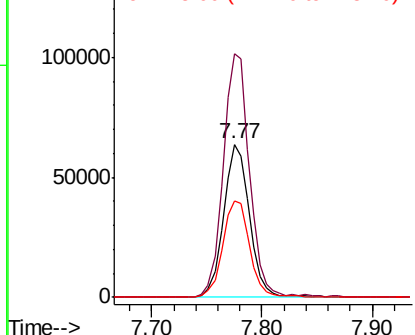


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

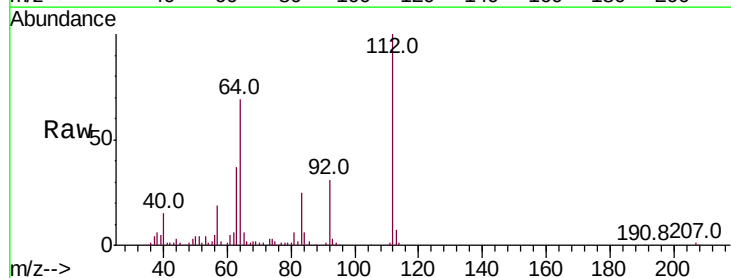
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 23.737 ng
RT: 5.36 min Scan# 403
Delta R.T. -0.01 min
Lab File: BM020223.D
Acq: 09 May 2019 18:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.8	80.6
63	36.7	32.3	48.5

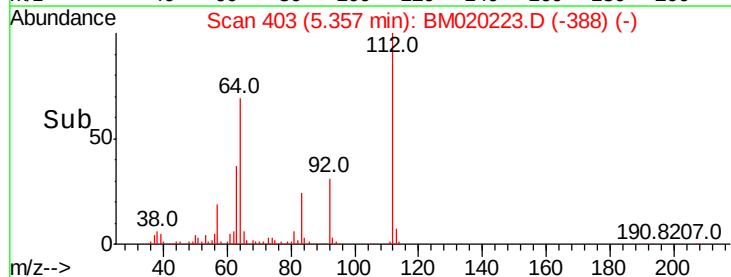
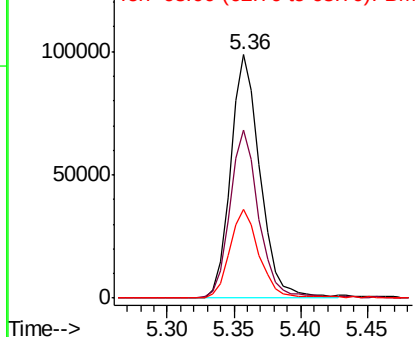


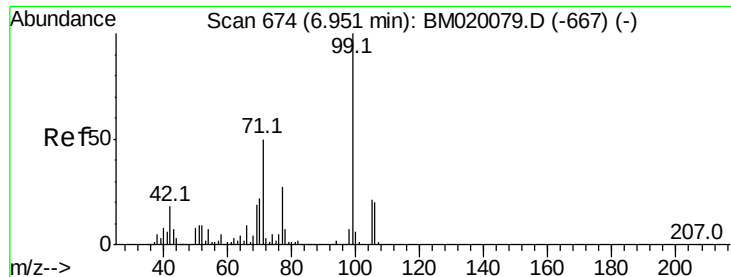
Abundance

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: 23.353 ng

RT: 6.94 min Scan# 672

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-D

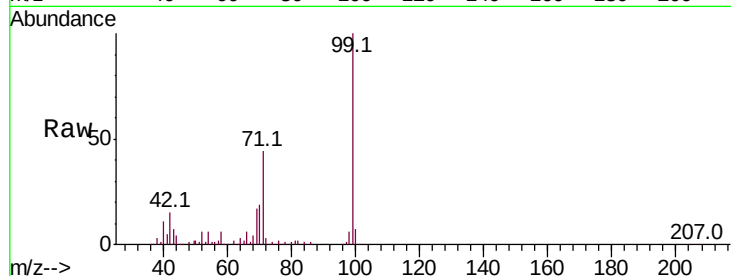
Tot Ion: 99 Resp: 204802

Ion Ratio Lower Upper

99 100

42 14.6 14.2 21.2

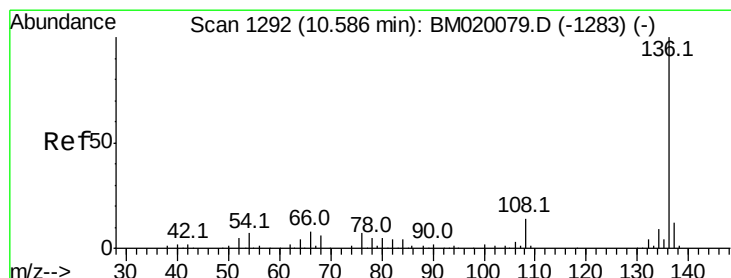
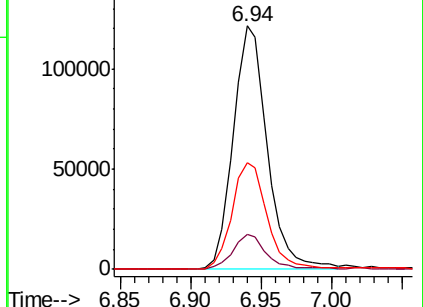
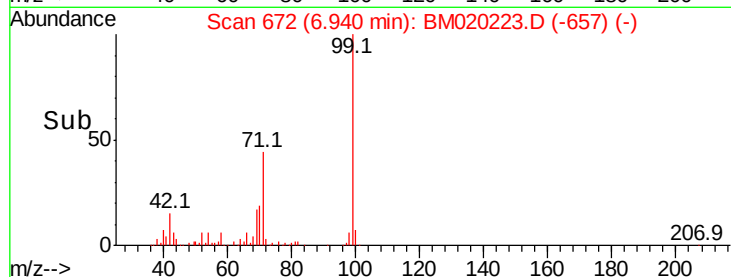
71 43.6 40.3 60.5



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: 10.57 min Scan# 1289

Delta R.T. -0.02 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Tgt Ion: 136 Resp: 391126

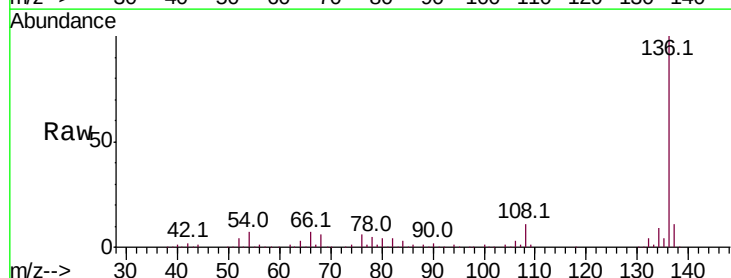
Ion Ratio Lower Upper

136 100

137 10.7 9.6 14.4

54 6.8 5.5 8.3

68 6.3 4.6 6.8

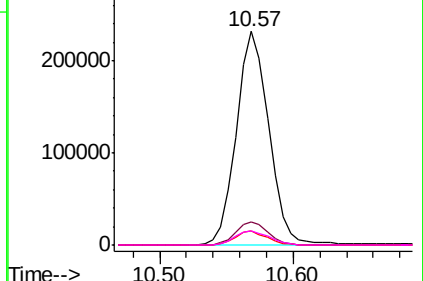
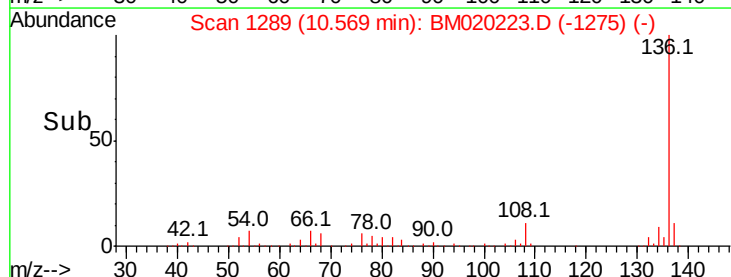


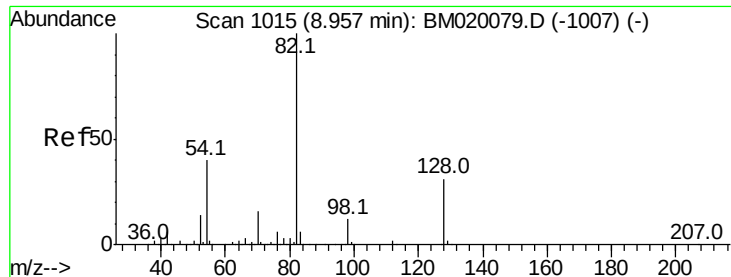
Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

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) (-)

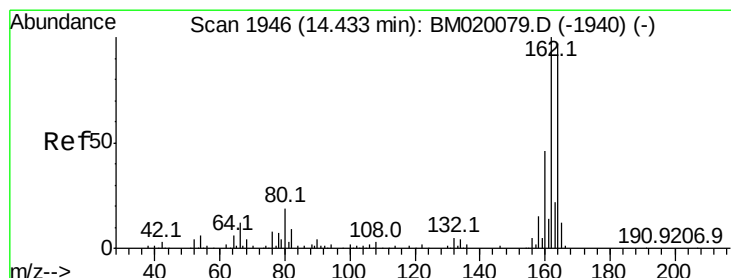
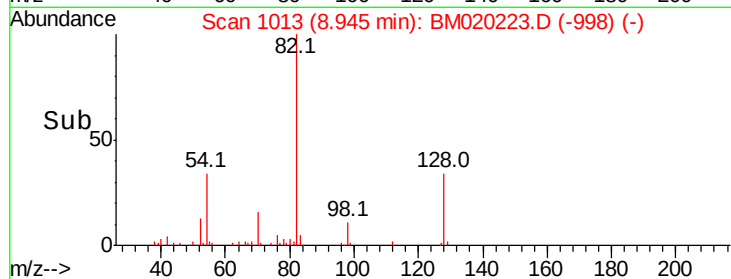
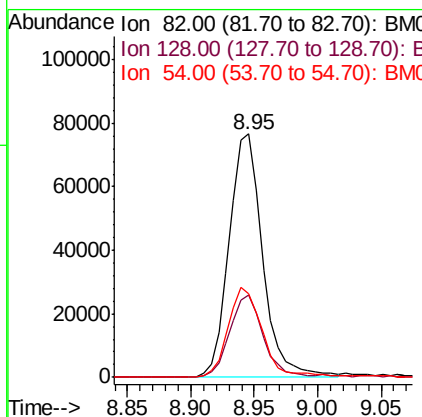
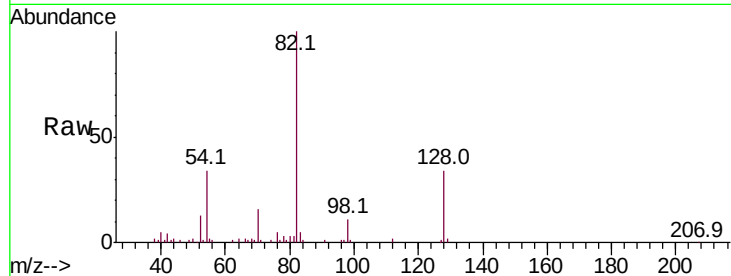




#23
Nitrobenzene-d5
Concen: 14.207 ng
RT: 8.95 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BM020223.D
Acq: 09 May 2019 18:39

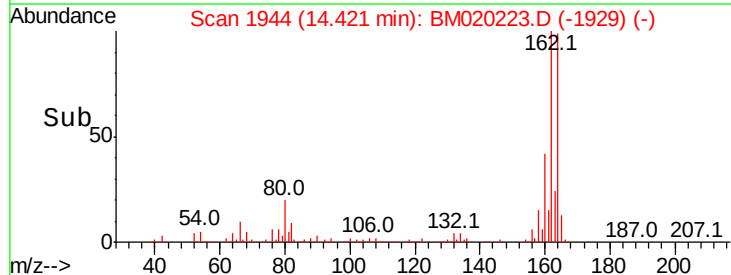
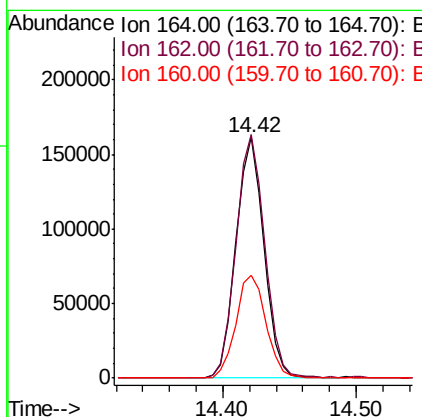
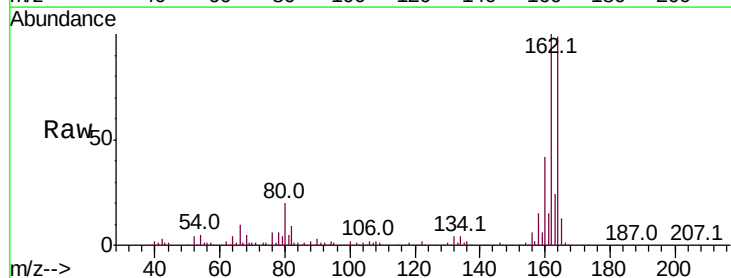
Instrument :
BNA_M
ClientSampleId :
PL-02-050719-D

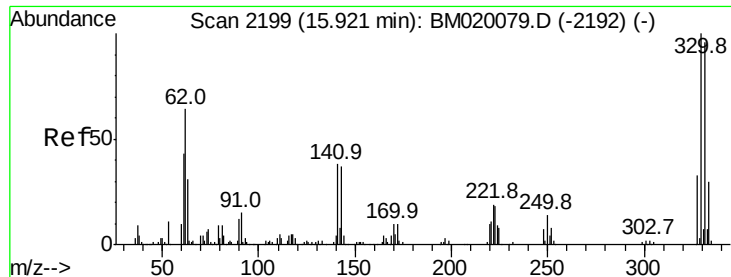
Tot Ion	82	Resp	140744
Ion	Ratio	Lower	Upper
82	100		
128	33.7	25.2	37.8
54	34.5	31.9	47.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.42 min Scan# 1944
Delta R.T. -0.01 min
Lab File: BM020223.D
Acq: 09 May 2019 18:39

Tgt Ion	164	Resp	236130
Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.2	123.2
160	42.9	37.6	56.4

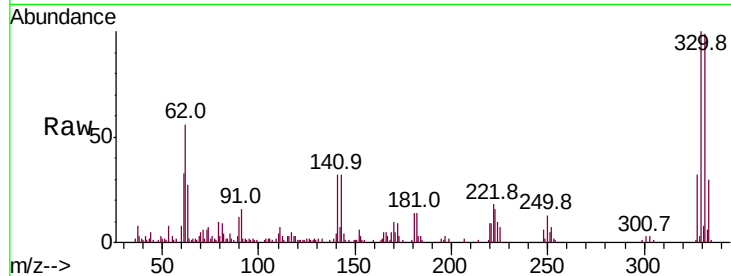




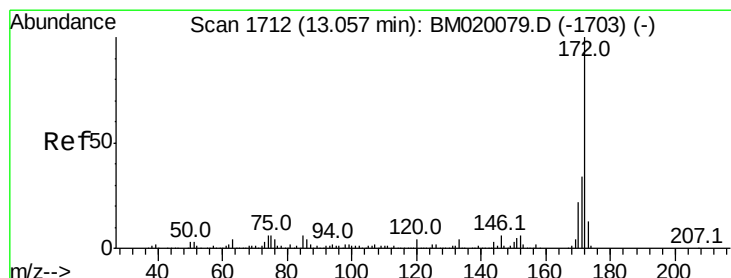
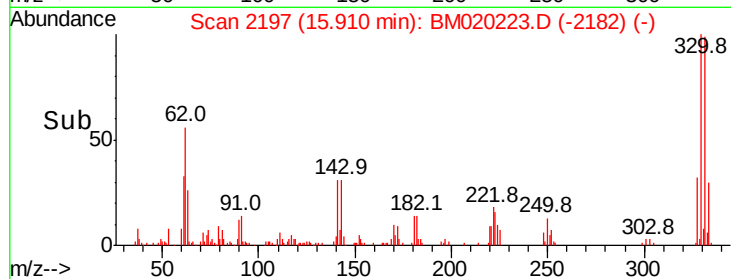
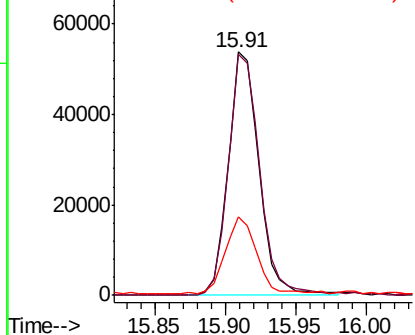
#42
 2,4,6-Tribromophenol
 Concen: 22.295 ng
 RT: 15.91 min Scan# 2197
 Delta R.T. -0.01 min
 Lab File: BM020223.D
 Acq: 09 May 2019 18:39

Instrument :
 BNA_M
 ClientSampleId :
 PL-02-050719-D

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.0	76.8	115.2
141	32.0	29.2	43.8

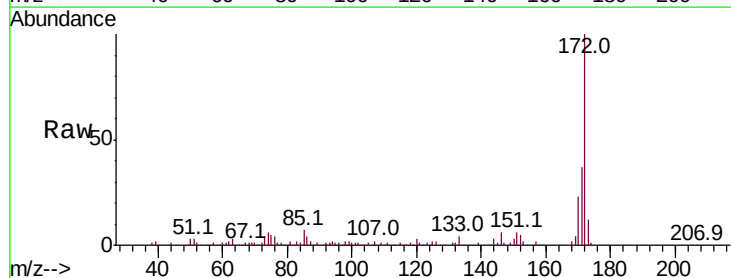


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

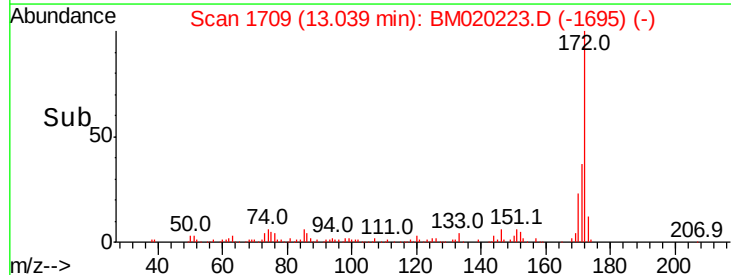
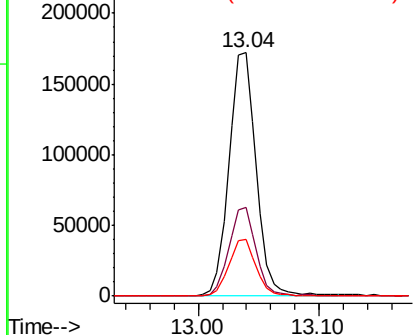


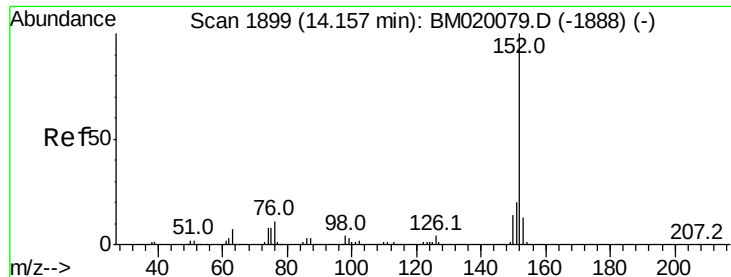
#45
 2-Fluorobiphenyl
 Concen: 14.122 ng
 RT: 13.04 min Scan# 1709
 Delta R.T. -0.02 min
 Lab File: BM020223.D
 Acq: 09 May 2019 18:39

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	27.3	40.9
170	23.3	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: 5.286 ng

RT: 14.15 min Scan# 1897

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-D

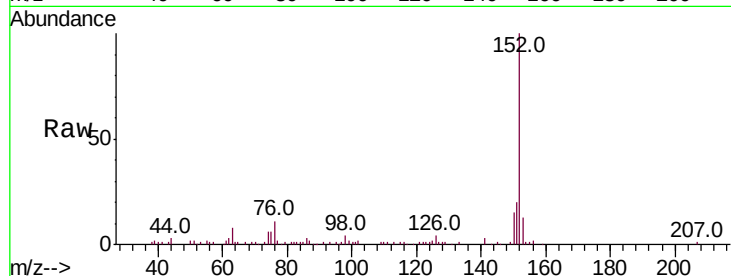
Tot Ion:152 Resp: 131272

Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.2

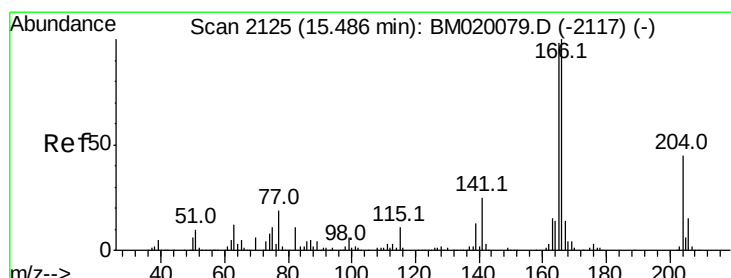
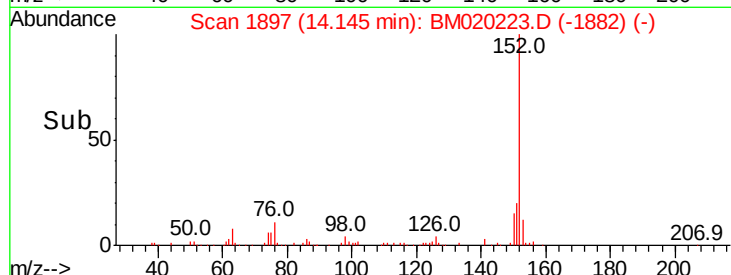
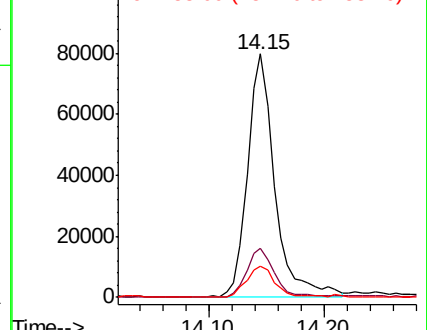
153 12.8 10.6 16.0



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



#58

Fluorene

Concen: 2.961 ng

RT: 15.47 min Scan# 2122

Delta R.T. -0.02 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

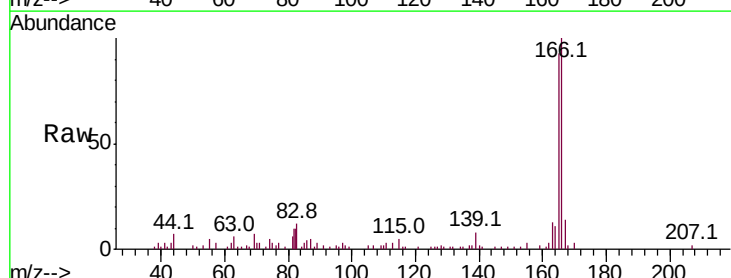
Tgt Ion:166 Resp: 58424

Ion Ratio Lower Upper

166 100

165 92.6 78.2 117.2

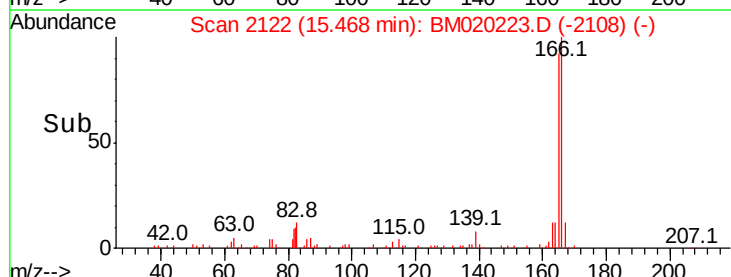
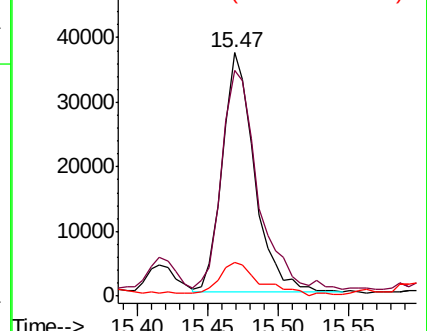
167 14.1 11.0 16.4

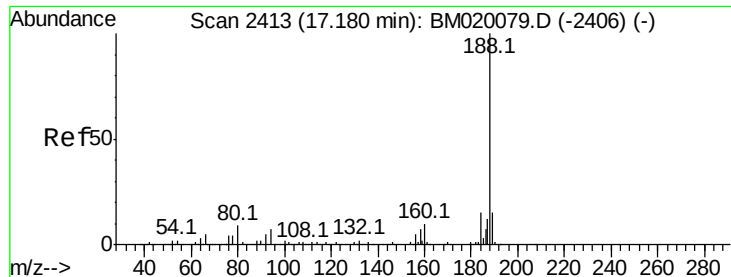


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.17 min Scan# 2411

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

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ClientSampleId :

PL-02-050719-D

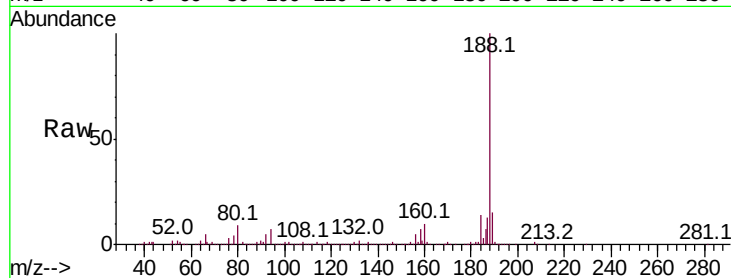
Tot Ion:188 Resp: 554267

Ion Ratio Lower Upper

188 100

94 6.9 5.8 8.6

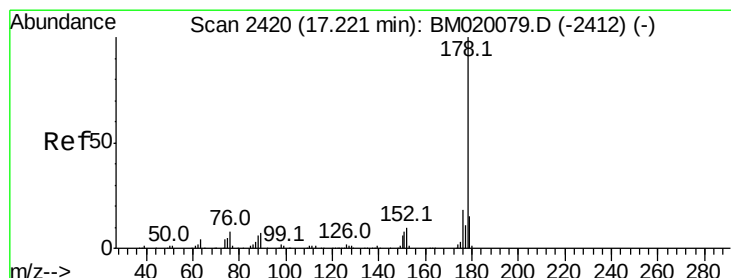
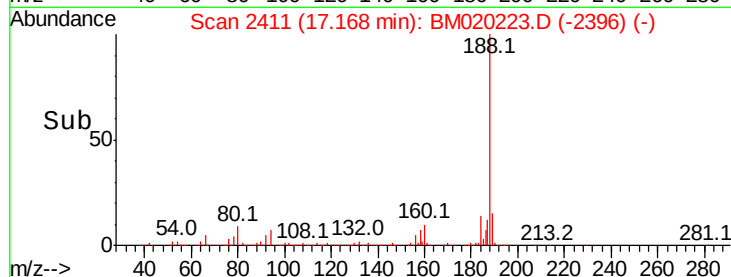
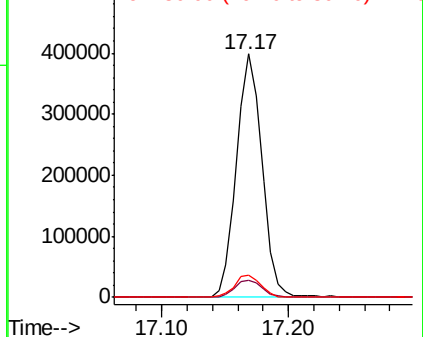
80 9.2 7.4 11.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#71

Phenanthrene

Concen: 19.004 ng

RT: 17.21 min Scan# 2418

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

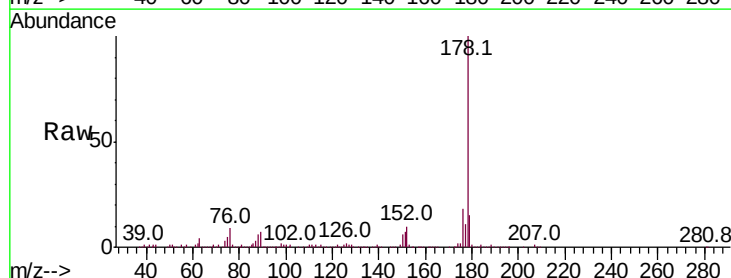
Tgt Ion:178 Resp: 581443

Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

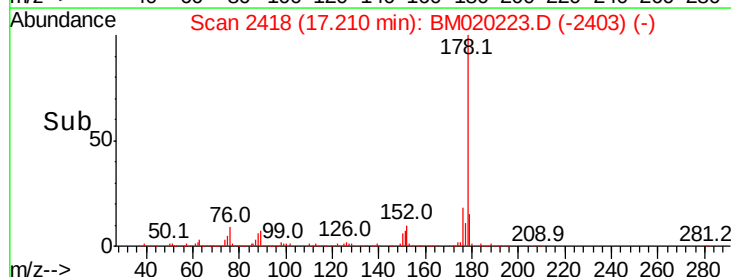
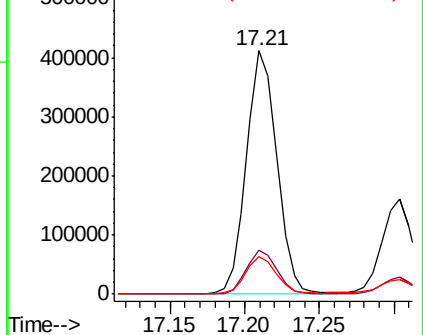
179 15.5 12.4 18.6

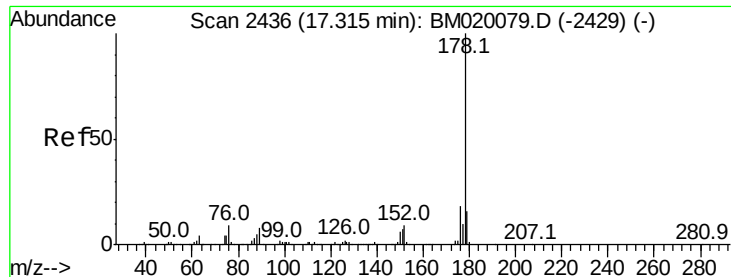


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

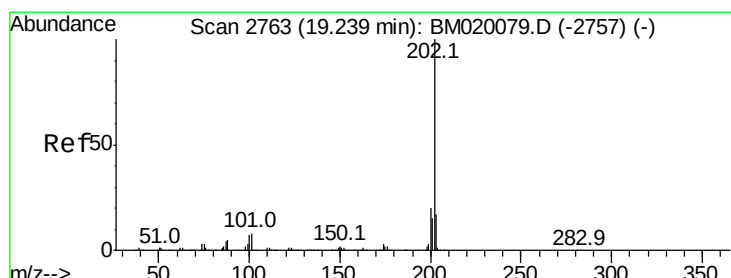
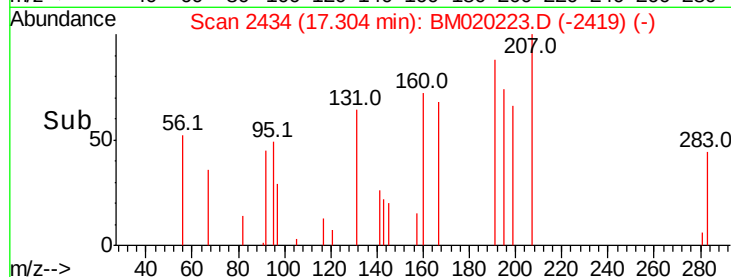
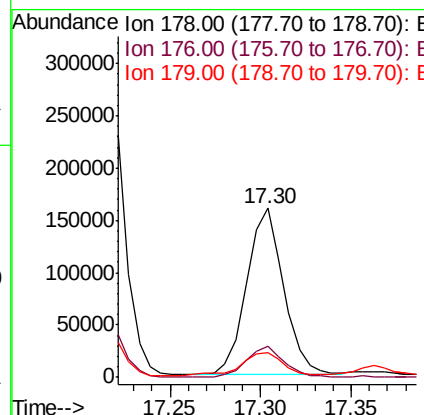
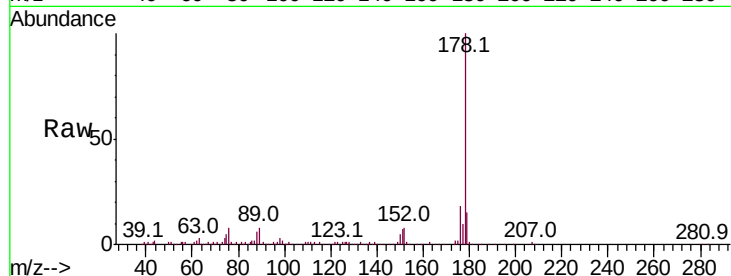




#72
 Anthracene
 Concen: 7.385 ng
 RT: 17.30 min Scan# 2434
 Delta R.T. -0.01 min
 Lab File: BM020223.D
 Acq: 09 May 2019 18:39

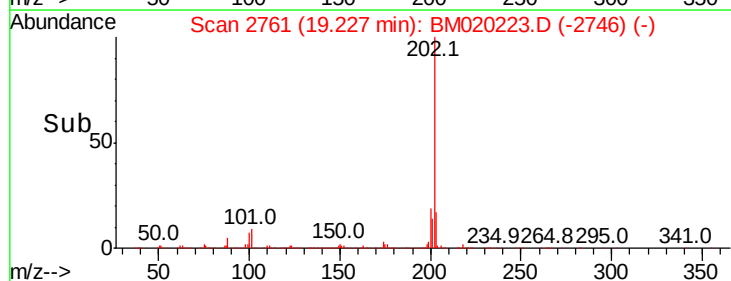
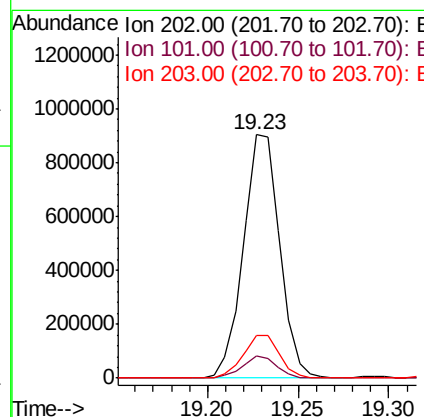
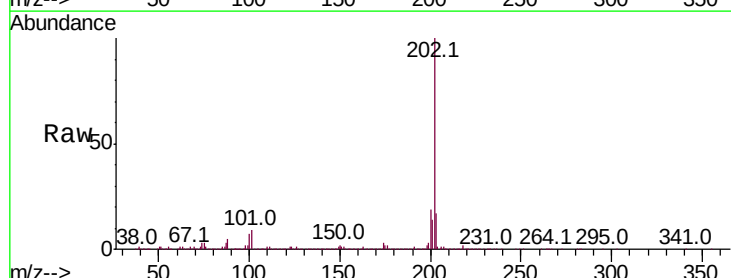
Instrument :
 BNA_M
 ClientSampleId :
 PL-02-050719-D

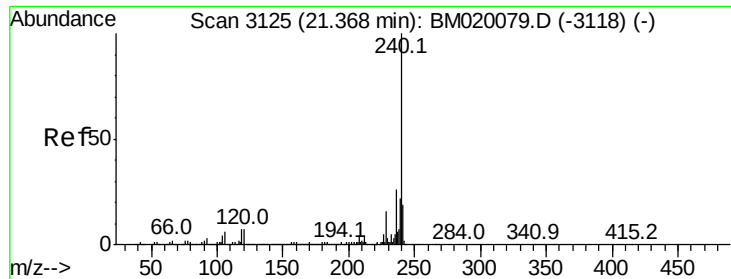
Tot Ion:178 Resp: 225903
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 22.0
 179 14.7 12.4 18.6



#75
 Fluoranthene
 Concen: 32.453 ng
 RT: 19.23 min Scan# 2761
 Delta R.T. -0.01 min
 Lab File: BM020223.D
 Acq: 09 May 2019 18:39

Tgt Ion:202 Resp: 1256316
 Ion Ratio Lower Upper
 202 100
 101 9.1 0.0 28.4
 203 17.5 0.0 37.4

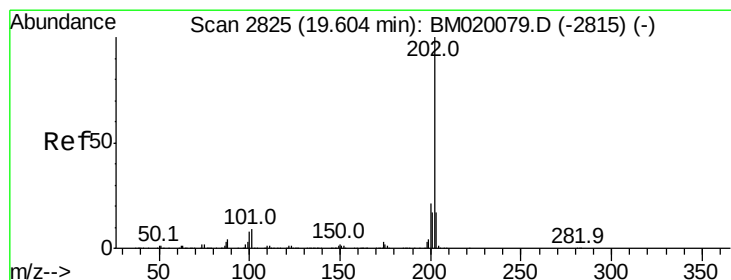
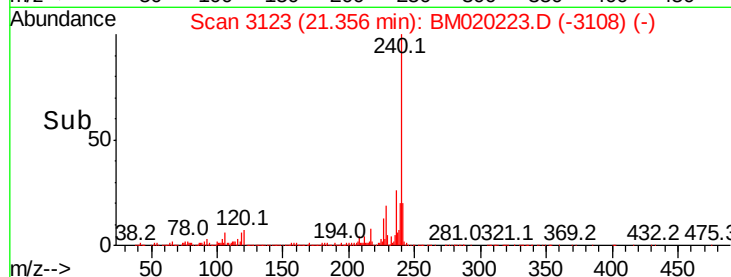
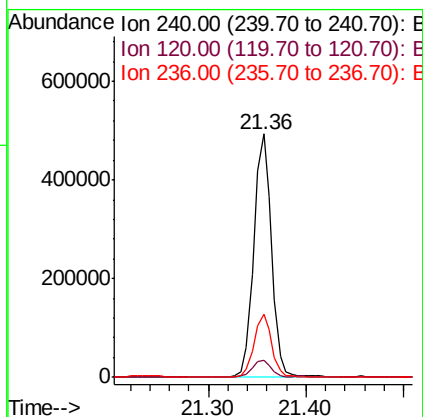
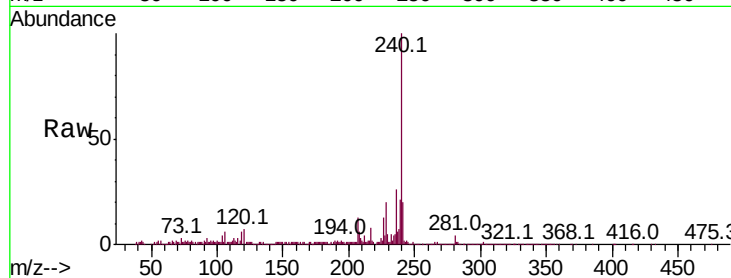




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.36 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BM020223.D
Acq: 09 May 2019 18:39

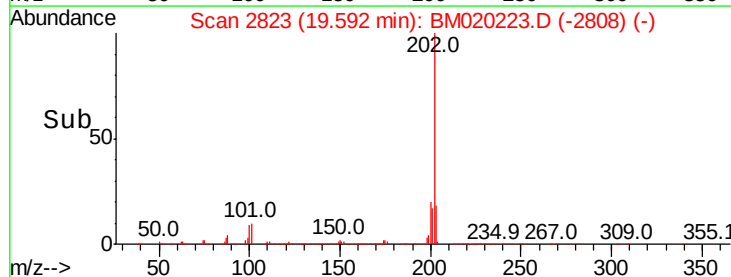
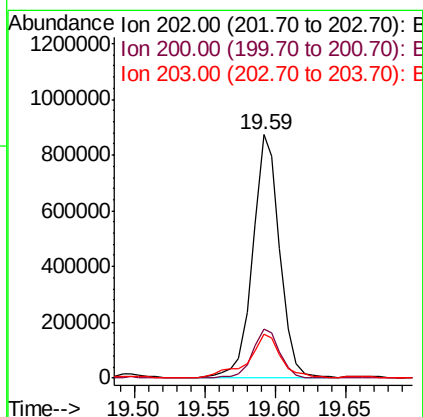
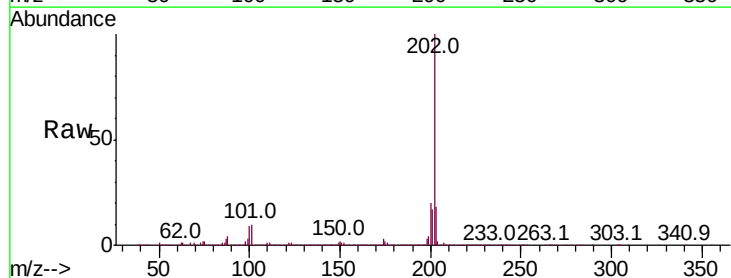
Instrument :
BNA_M
ClientSampleId :
PL-02-050719-D

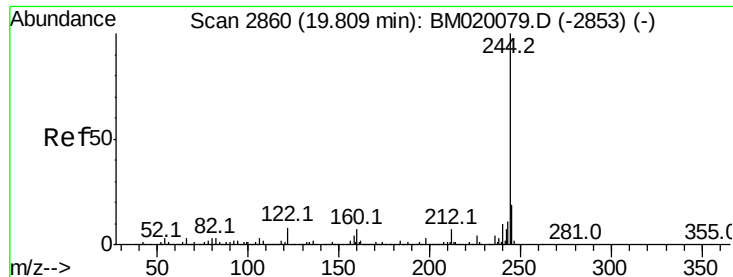
Tot Ion:240 Resp: 629745
Ion Ratio Lower Upper
240 100
120 7.0 5.6 8.4
236 26.1 20.9 31.3



#78
Pyrene
Concen: 27.499 ng
RT: 19.59 min Scan# 2823
Delta R.T. -0.01 min
Lab File: BM020223.D
Acq: 09 May 2019 18:39

Tgt Ion:202 Resp: 1162651
Ion Ratio Lower Upper
202 100
200 20.1 16.5 24.7
203 17.9 13.9 20.9





#79

Terphenyl-d14

Concen: 12.946 ng

RT: 19.79 min Scan# 2857

Delta R.T. -0.02 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-D

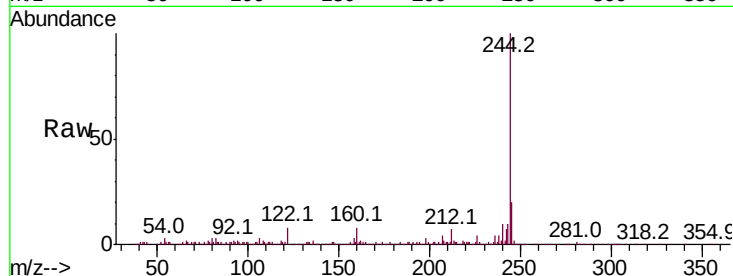
Tot Ion:244 Resp: 467426

Ion Ratio Lower Upper

244 100

212 6.5 5.7 8.5

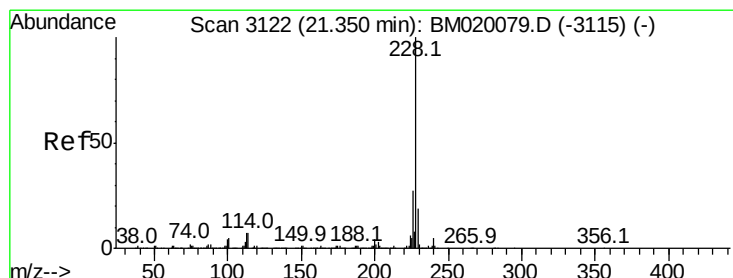
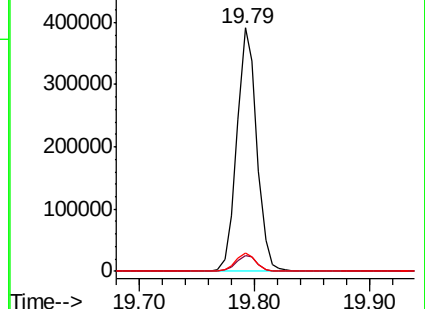
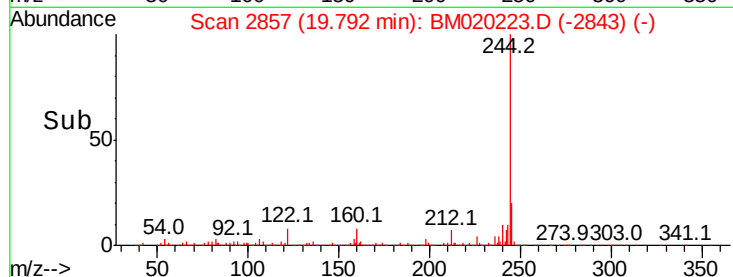
122 7.7 6.2 9.2



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: 16.958 ng

RT: 21.34 min Scan# 3120

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

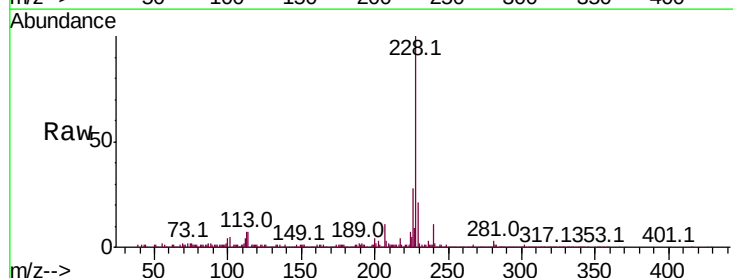
Tgt Ion:228 Resp: 748914

Ion Ratio Lower Upper

228 100

226 27.9 21.3 31.9

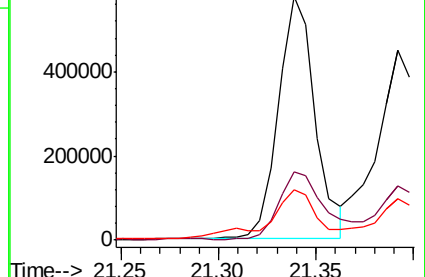
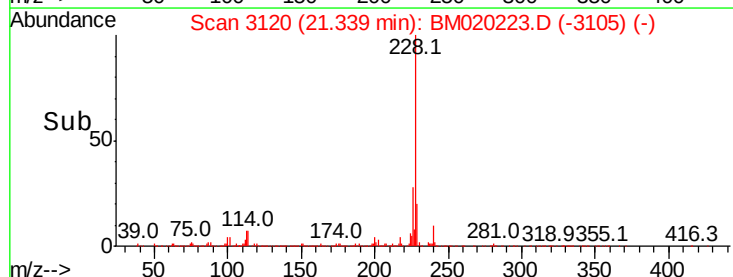
229 20.9 15.5 23.3

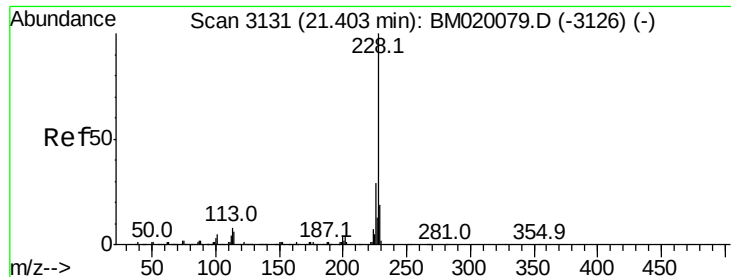


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 15.003 ng

RT: 21.39 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-D

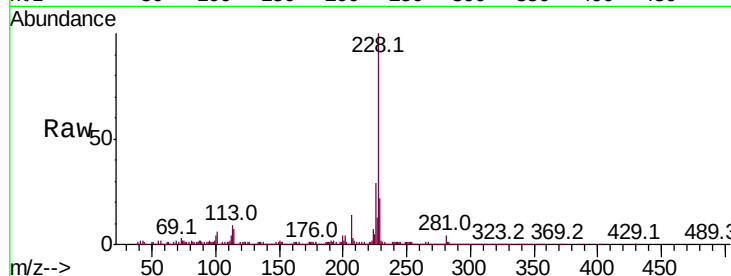
Tot Ion:228 Resp: 642596

Ion Ratio Lower Upper

228 100

226 28.5 23.0 34.6

229 21.9 15.5 23.3

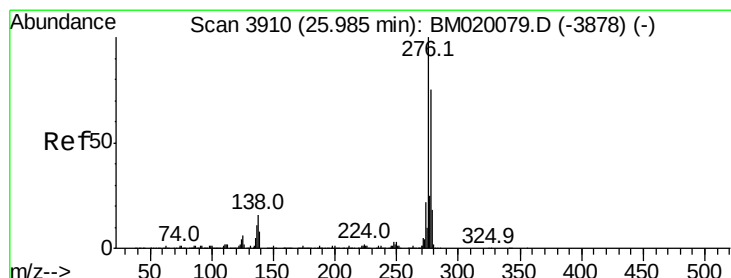
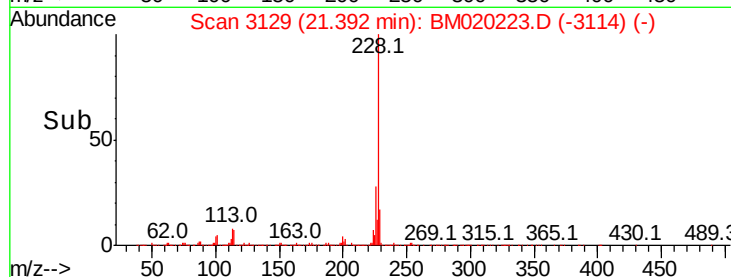
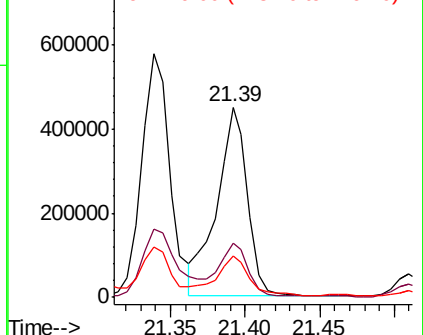


Abundance

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: 9.606 ng

RT: 25.97 min Scan# 3908

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

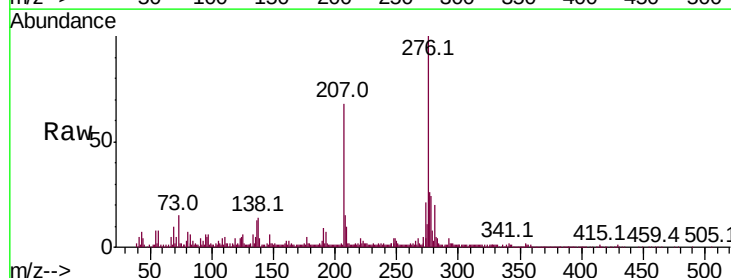
Tgt Ion:276 Resp: 489396

Ion Ratio Lower Upper

276 100

138 14.4 0.0 0.0#

277 25.0 0.0 0.0#

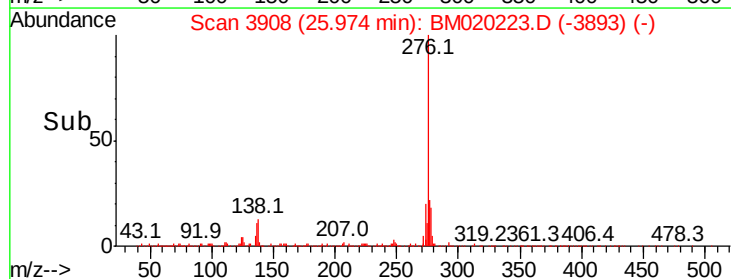
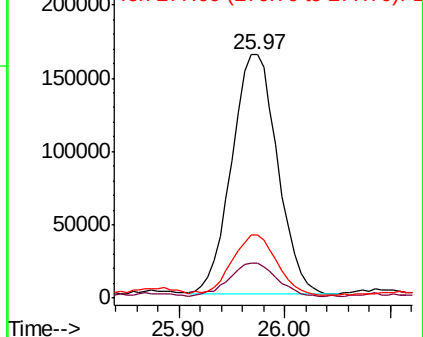


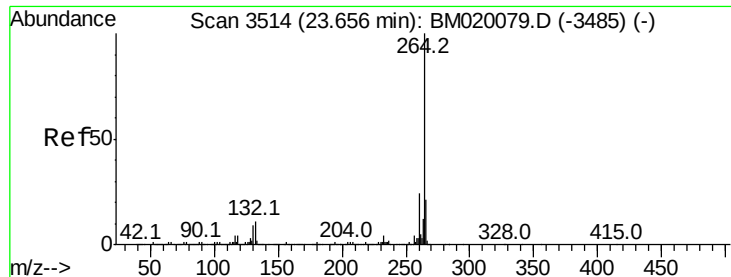
Abundance

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: 23.64 min Scan# 3512

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-D

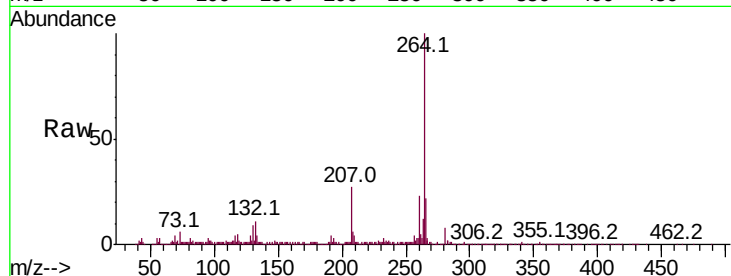
Tot Ion:264 Resp: 789939

Ion Ratio Lower Upper

264 100

260 22.5 19.2 28.8

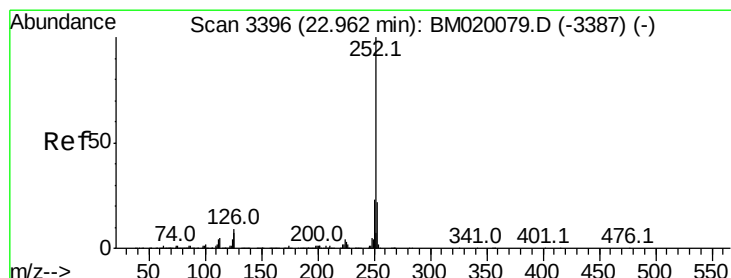
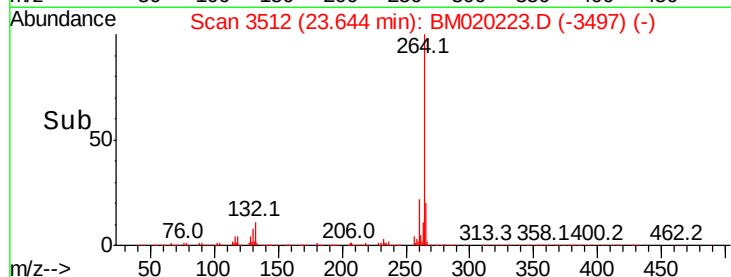
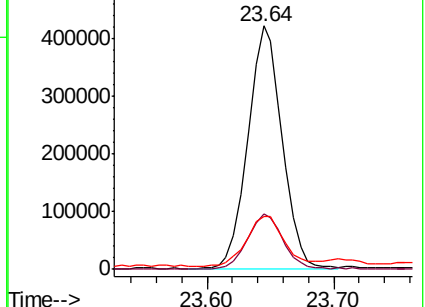
265 21.6 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 18.849 ng m

RT: 22.96 min Scan# 3395

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

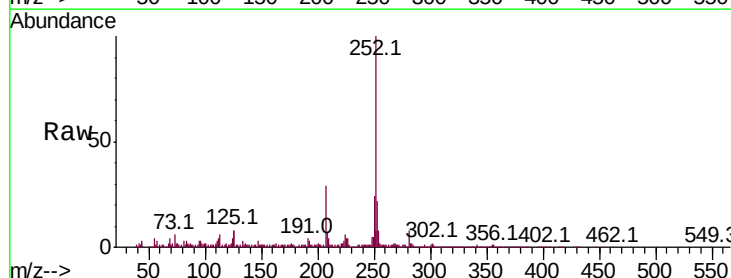
Tgt Ion:252 Resp: 983225

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

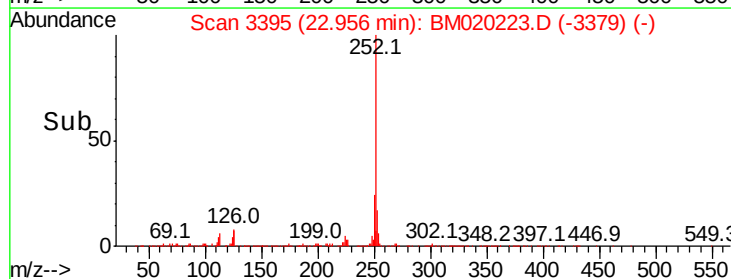
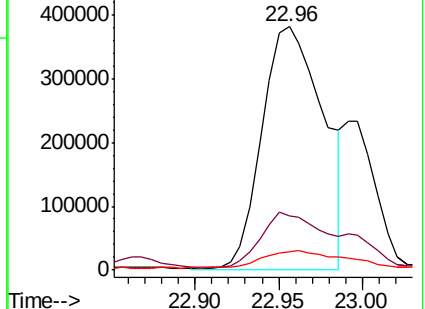
125 7.7 5.4 8.2

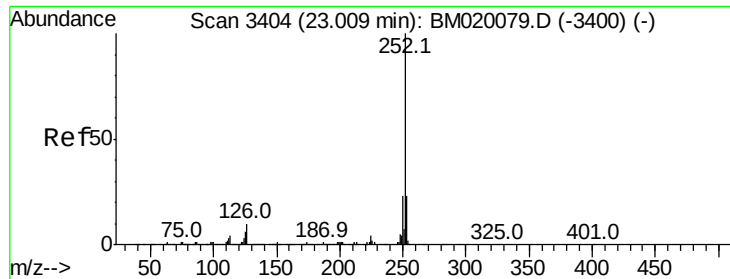


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 6.394 ng

RT: 22.99 min Scan# 3401

Delta R.T. -0.02 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-D

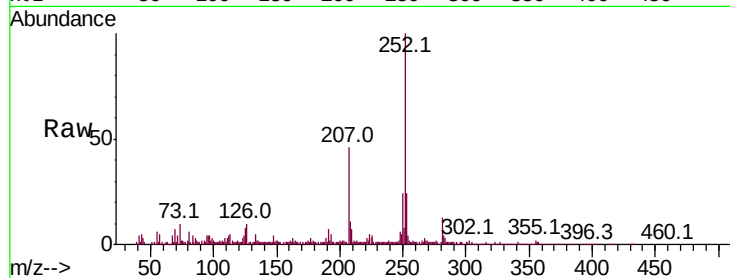
Tot Ion:252 Resp: 304261

Ion Ratio Lower Upper

252 100

253 24.4 17.8 26.8

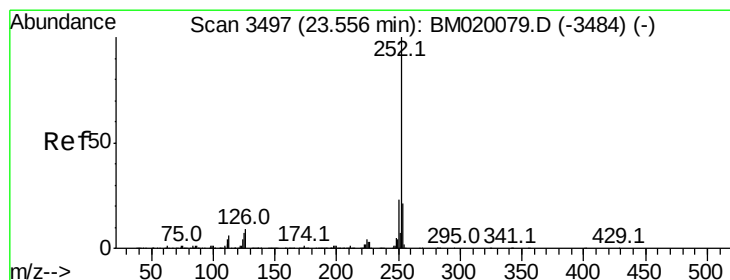
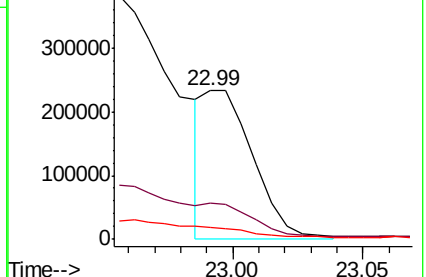
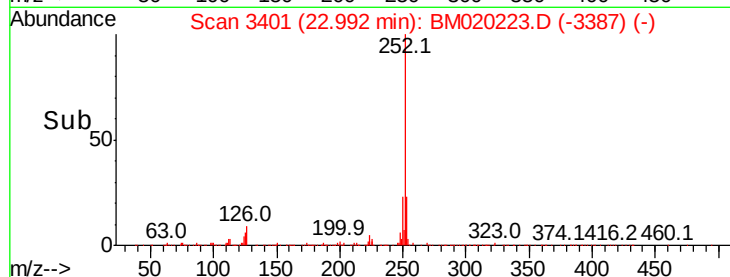
125 8.4 5.4 8.0#



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



#90

Benzo(a)pyrene

Concen: 15.112 ng

RT: 23.54 min Scan# 3495

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

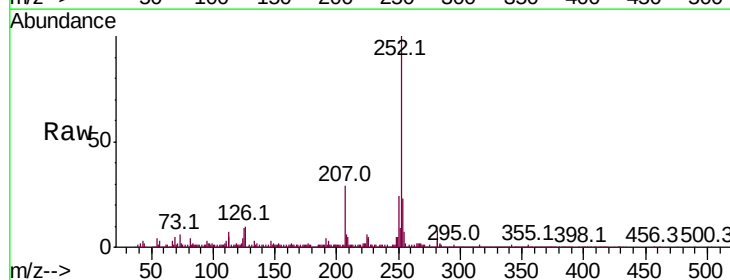
Tgt Ion:252 Resp: 716012

Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.6

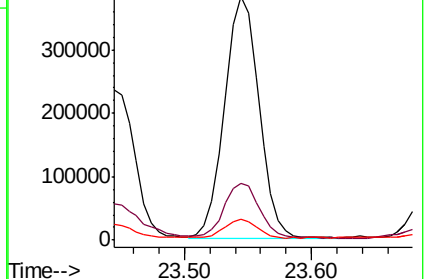
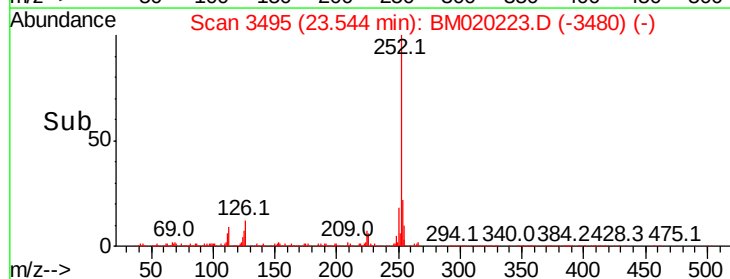
125 8.6 5.5 8.3#

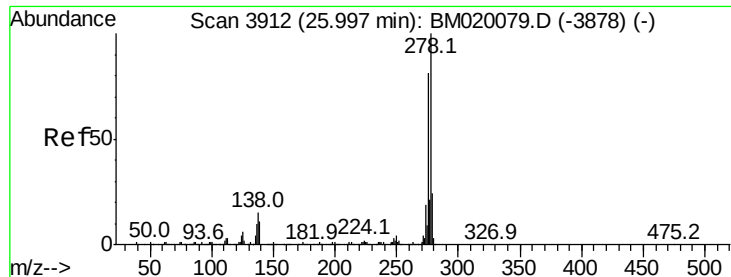


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 2.737 ng

RT: 25.97 min Scan# 3908

Delta R.T. -0.02 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-D

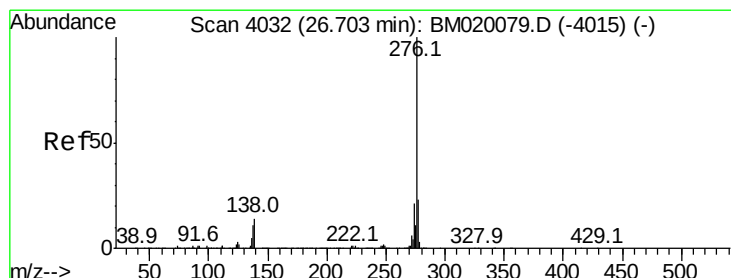
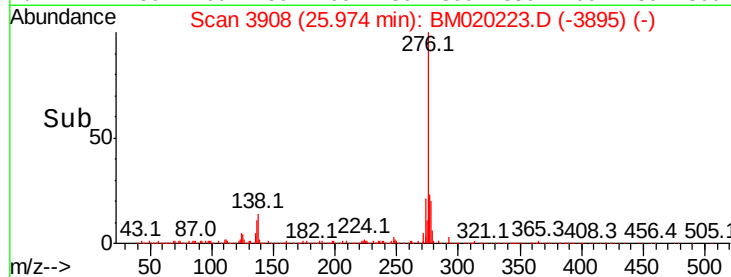
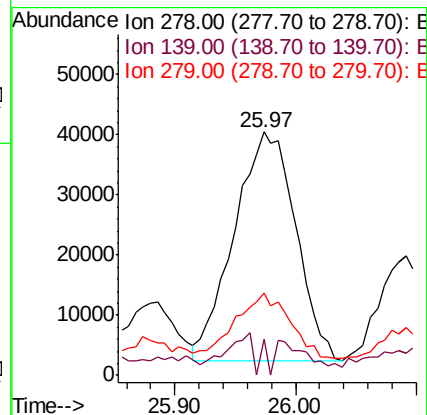
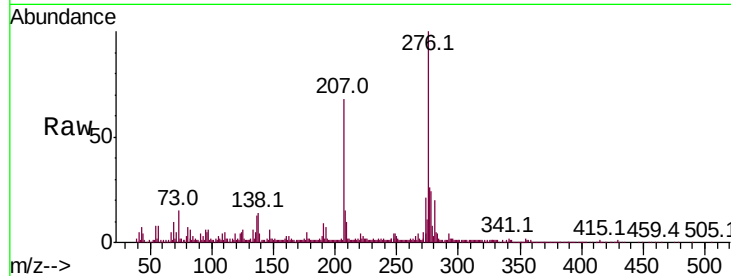
Tot Ion:278 Resp: 134857

Ion Ratio Lower Upper

278 100

139 15.0 8.6 13.0#

279 33.6 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 9.964 ng

RT: 26.69 min Scan# 4030

Delta R.T. -0.01 min

Lab File: BM020223.D

Acq: 09 May 2019 18:39

Tgt Ion:276 Resp: 466152

Ion Ratio Lower Upper

276 100

277 23.8 18.4 27.6

138 14.4 11.1 16.7

