

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
 Data File : BM020222.D
 Acq On : 09 May 2019 18:02
 Operator : JU/SJ
 Sample : K2645-03 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: May 10 05:21:48 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

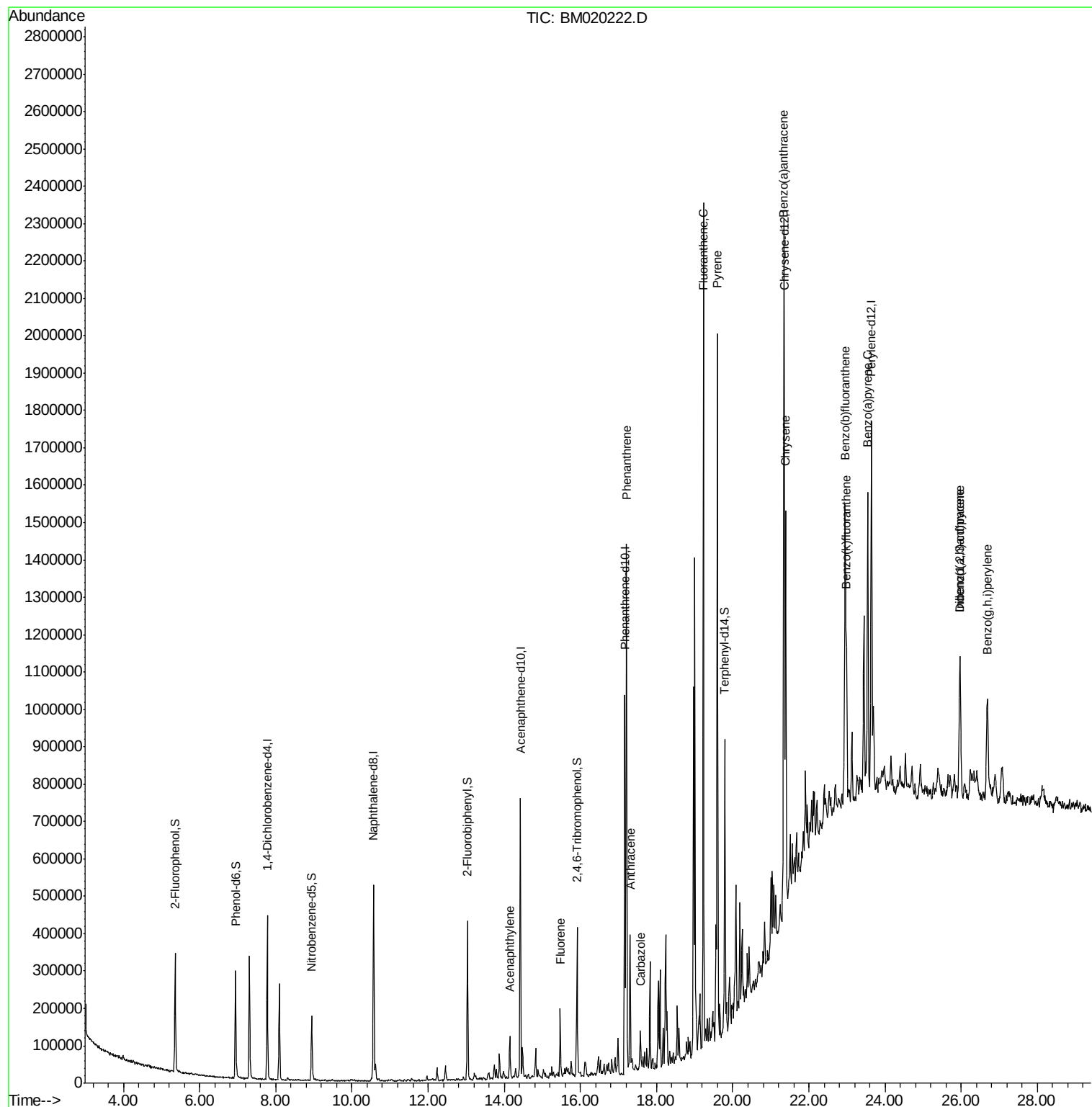
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	115607	20.00	ng	-0.02
21) Naphthalene-d8	10.57	136	411180	20.00	ng	-0.02
39) Acenaphthene-d10	14.42	164	243847	20.00	ng	-0.01
64) Phenanthrene-d10	17.17	188	576239	20.00	ng	-0.01
76) Chrysene-d12	21.36	240	636554	20.00	ng	-0.01
87) Perylene-d12	23.64	264	783029	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	128230	18.13	ng	-0.01
7) Phenol-d6	6.94	99	167735	17.36	ng	-0.01
23) Nitrobenzene-d5	8.94	82	122463	11.76	ng	-0.02
42) 2,4,6-Tribromophenol	15.91	330	68334	18.05	ng	-0.01
45) 2-Fluorobiphenyl	13.03	172	215205	10.86	ng	-0.02
79) Terphenyl-d14	19.79	244	344996	9.45	ng	-0.02
Target Compounds						
49) Acenaphthylene	14.15	152	79597	3.104	ng	Qvalue 98
58) Fluorene	15.47	166	79994	3.926	ng	98
71) Phenanthrene	17.21	178	828654	26.051	ng	98
72) Anthracene	17.30	178	233765	7.350	ng	100
73) Carbazole	17.58	167	66148	2.305	ng	98
75) Fluoranthene	19.23	202	1337384	33.230	ng	99
78) Pyrene	19.59	202	1166169	27.287	ng	99
81) Benzo(a)anthracene	21.34	228	680476	15.243	ng	98
83) Chrysene	21.39	228	562906	13.002	ng	97
86) Indeno(1,2,3-cd)pyrene	25.97	276	393734	7.646	ng	# 100
88) Benzo(b)fluoranthene	22.95	252	771478m	14.920	ng	
89) Benzo(k)fluoranthene	22.99	252	293950m	6.232	ng	
90) Benzo(a)pyrene	23.54	252	587586	12.511	ng	96
91) Dibenzo(a,h)anthracene	25.97	278	106233	2.175	ng	# 90
92) Benzo(a,h,i)perylene	26.69	276	365115	7.874	ng	99

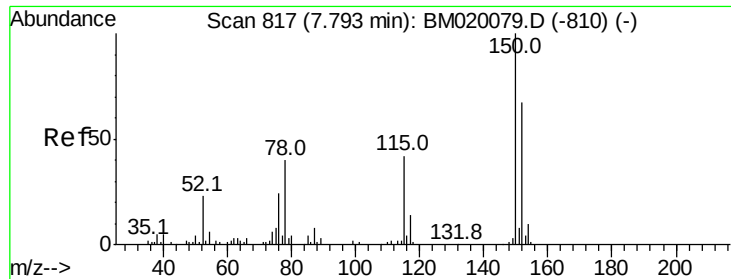
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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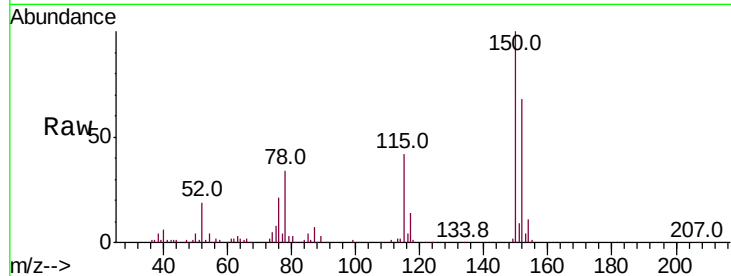


#1

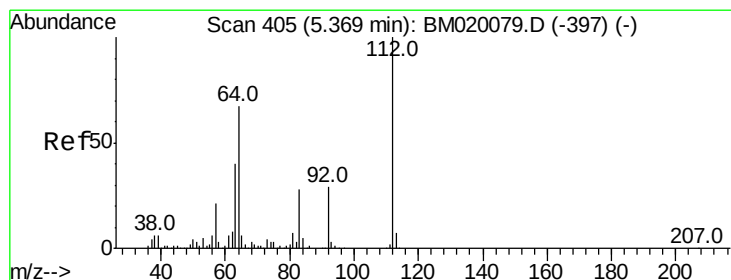
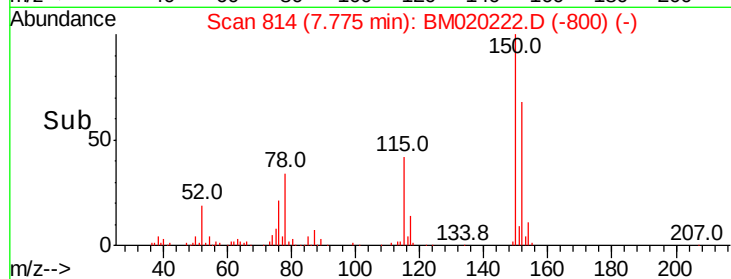
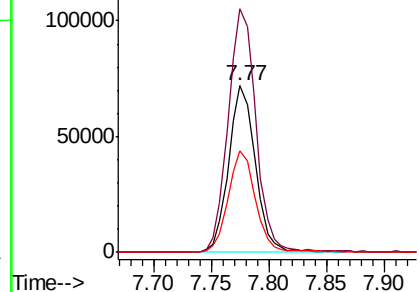
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.77 min Scan# 814
Delta R.T. -0.02 min
Lab File: BM020222.D
Acq: 09 May 2019 18:02

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	146.5	119.8	179.8
115	61.4	50.8	76.2



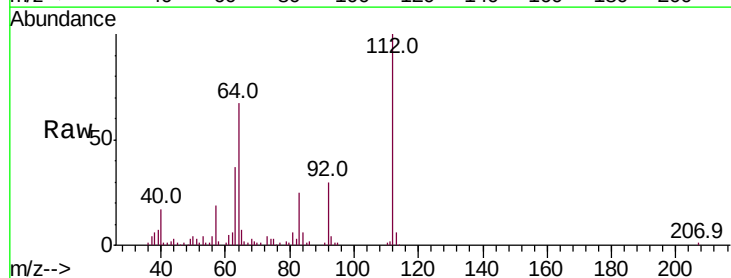
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



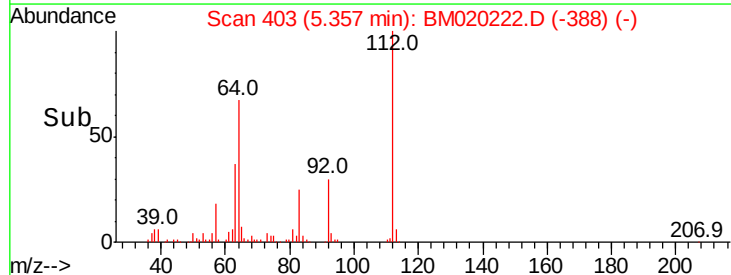
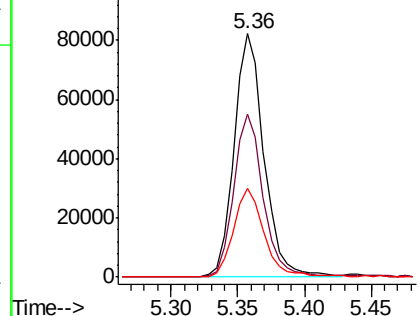
#5

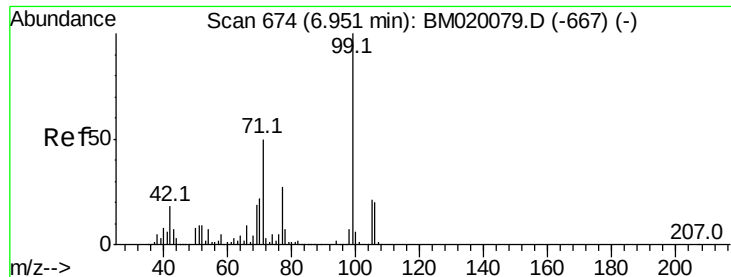
2-Fluorophenol
Concen: 18.131 ng
RT: 5.36 min Scan# 403
Delta R.T. -0.01 min
Lab File: BM020222.D
Acq: 09 May 2019 18:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	53.8	80.6
63	36.6	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: 17.360 ng

RT: 6.94 min Scan# 672

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Instrument :

BNA_M

ClientSampled :

PL-02-050719-B

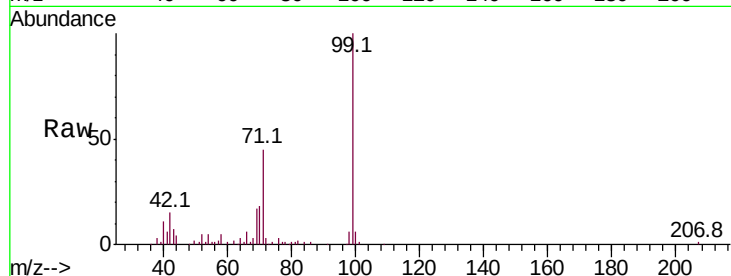
Tot Ion: 99 Resp: 167735

Ion Ratio Lower Upper

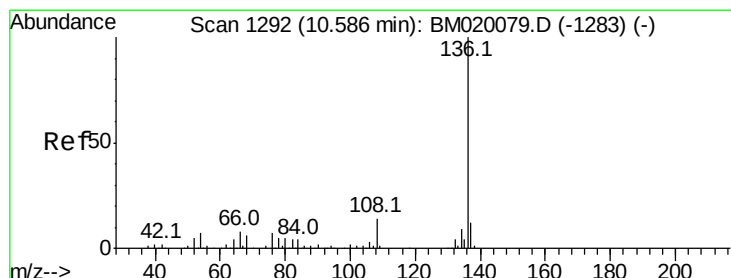
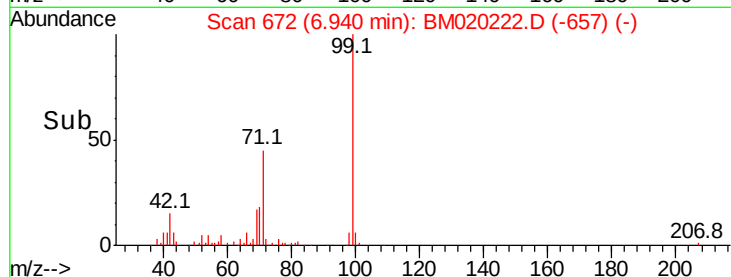
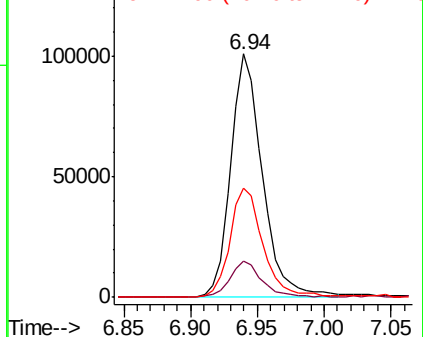
99 100

42 14.7 14.2 21.2

71 44.8 40.3 60.5



Abundance Ion 99.00 (98.70 to 99.70): BM0
Ion 42.00 (41.70 to 42.70): BM0
Ion 71.00 (70.70 to 71.70): BM0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.57 min Scan# 1289

Delta R.T. -0.02 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Tgt Ion: 136 Resp: 411180

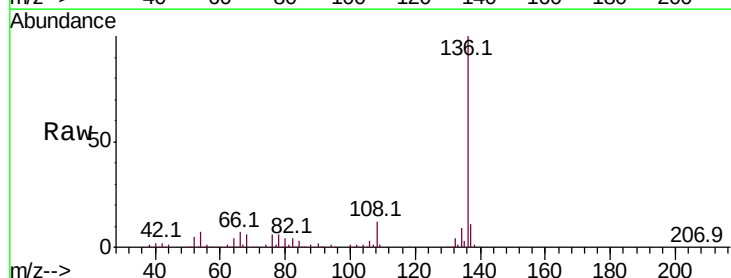
Ion Ratio Lower Upper

136 100

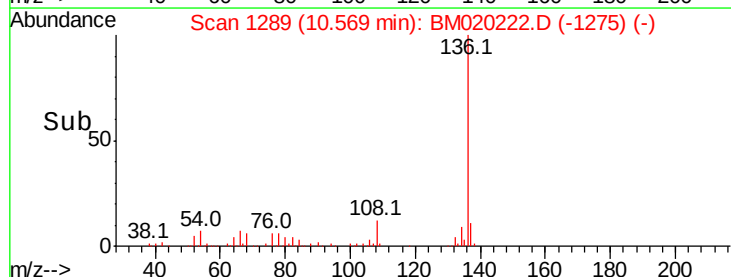
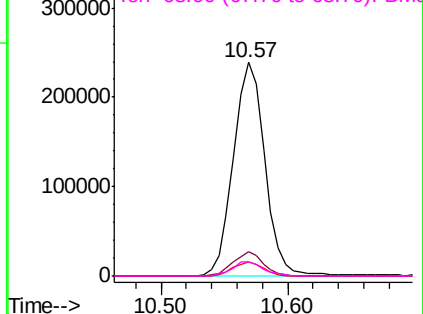
137 11.5 9.6 14.4

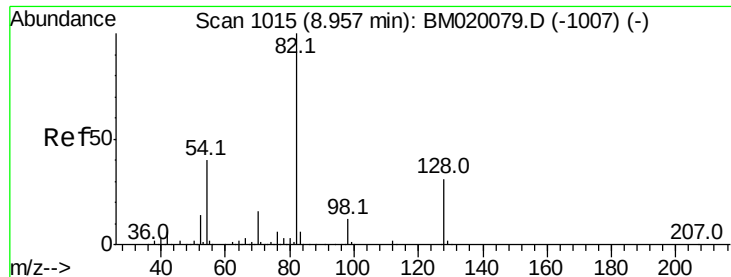
54 6.6 5.5 8.3

68 6.5 4.6 6.8



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM0
Ion 68.00 (67.70 to 68.70): BM0

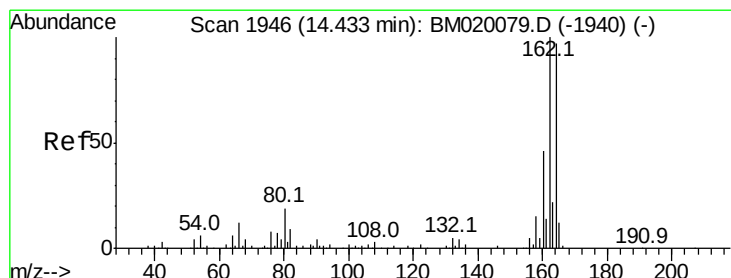
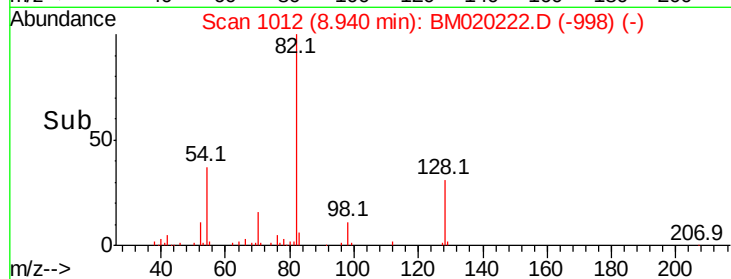
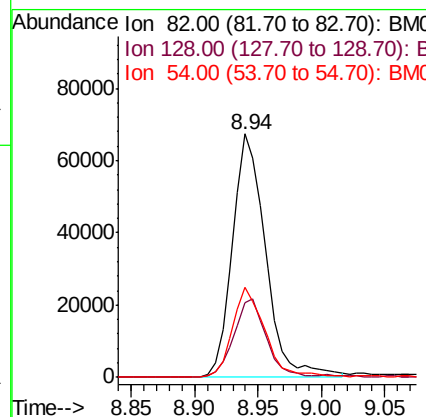
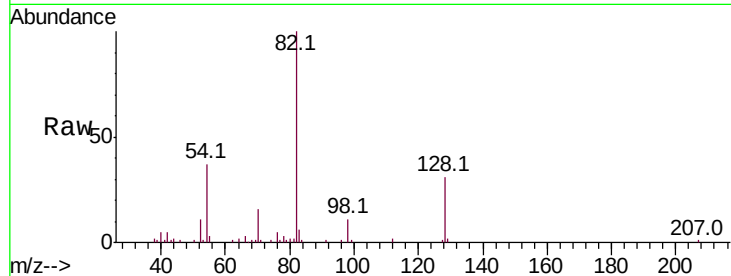




#23
Nitrobenzene-d5
Concen: 11.758 ng
RT: 8.94 min Scan# 1012
Delta R.T. -0.02 min
Lab File: BM020222.D
Acq: 09 May 2019 18:02

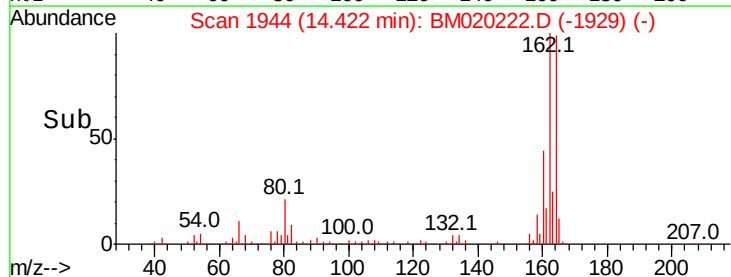
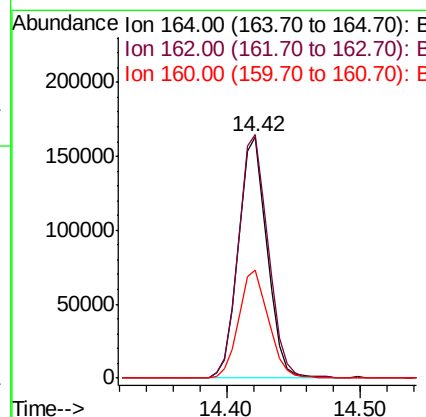
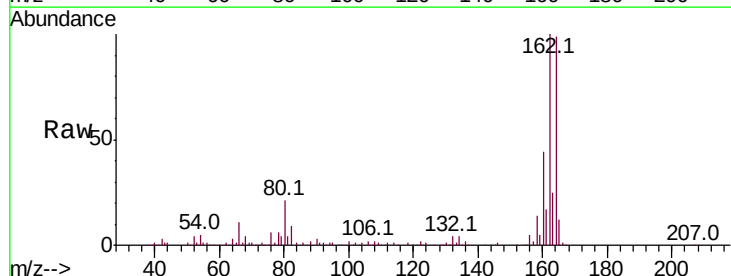
Instrument :
BNA_M
ClientSampleId :
PL-02-050719-B

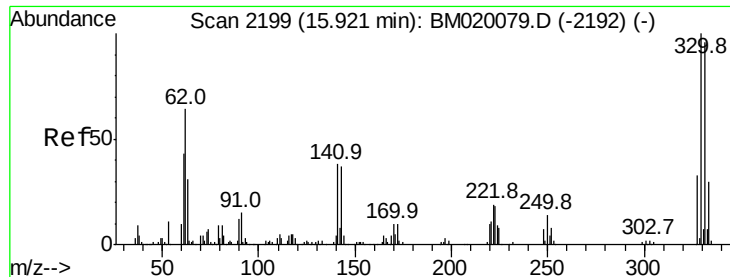
Tot Ion	82	Resp	122463
Ion Ratio	Lower	Upper	
82	100		
128	30.6	25.2	37.8
54	36.8	31.9	47.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.42 min Scan# 1944
Delta R.T. -0.01 min
Lab File: BM020222.D
Acq: 09 May 2019 18:02

Tgt Ion	164	Resp	243847
Ion Ratio	Lower	Upper	
164	100		
162	100.8	82.2	123.2
160	44.8	37.6	56.4

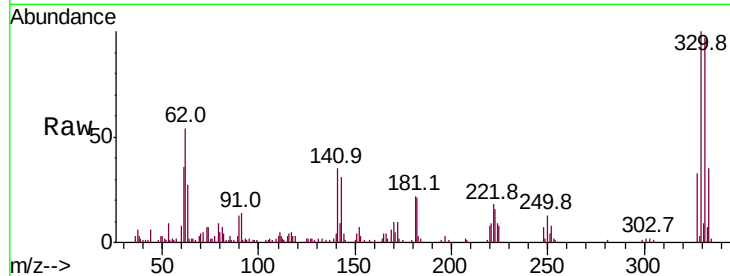




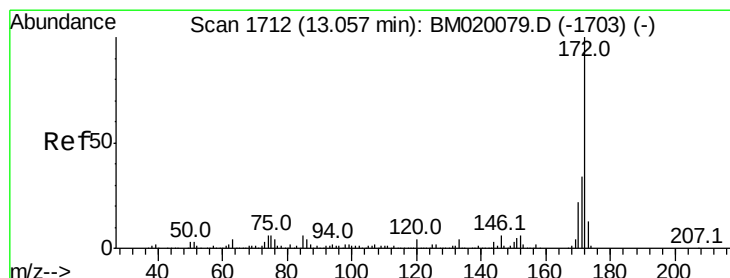
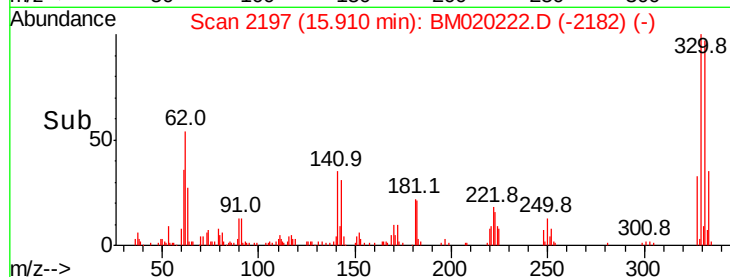
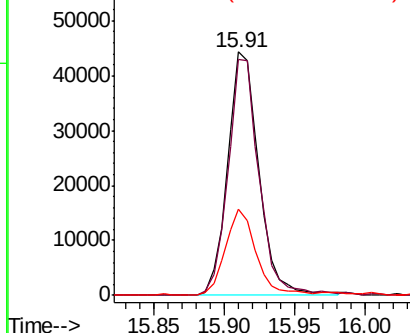
#42
 2,4,6-Tribromophenol
 Concen: 18.054 ng
 RT: 15.91 min Scan# 2197
 Delta R.T. -0.01 min
 Lab File: BM020222.D
 Acq: 09 May 2019 18:02

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.8	115.2
141	34.8	29.2	43.8

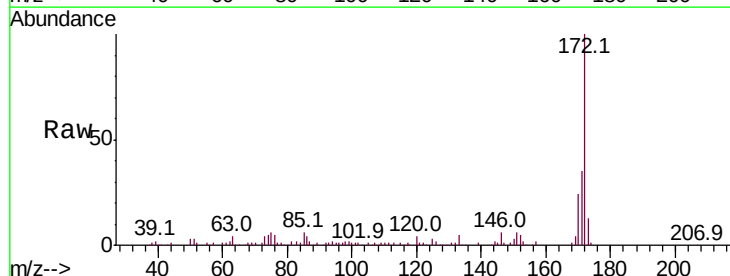


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

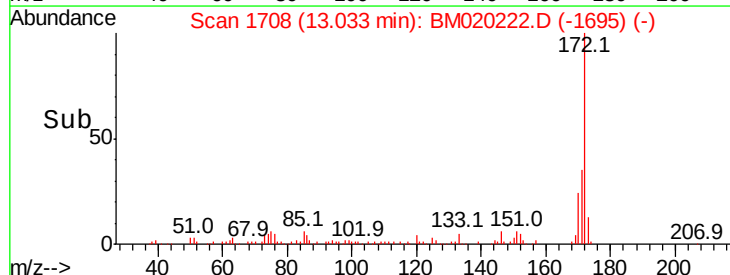
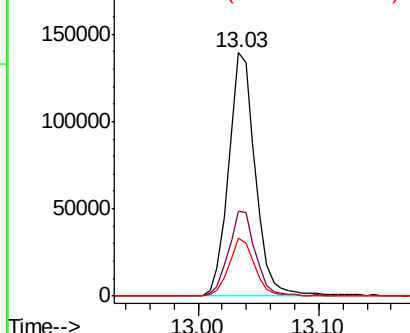


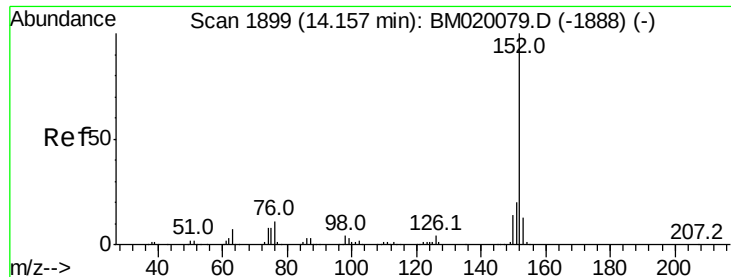
#45
 2-Fluorobiphenyl
 Concen: 10.858 ng
 RT: 13.03 min Scan# 1708
 Delta R.T. -0.02 min
 Lab File: BM020222.D
 Acq: 09 May 2019 18:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.3	40.9
170	23.7	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: 3.104 ng

RT: 14.15 min Scan# 1897

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-B

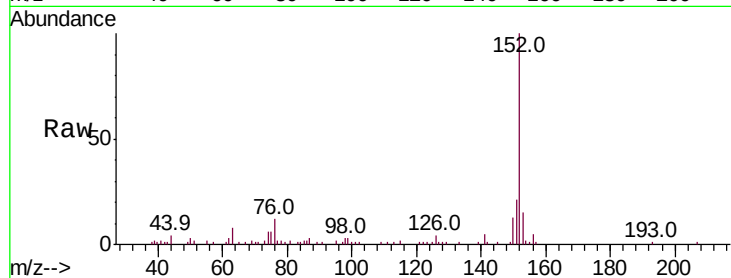
Tot Ion:152 Resp: 79597

Ion Ratio Lower Upper

152 100

151 20.7 16.2 24.2

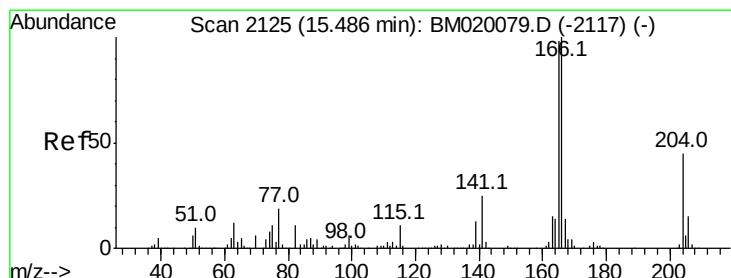
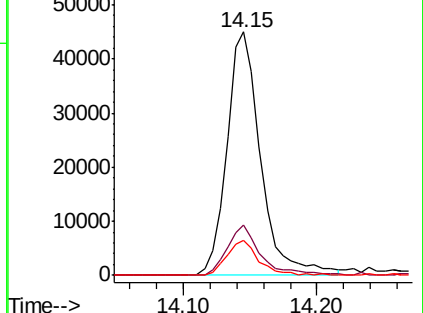
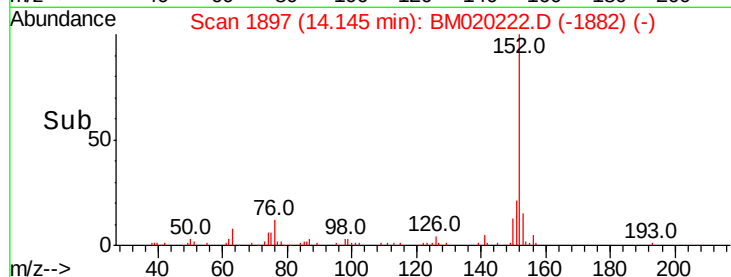
153 14.6 10.6 16.0



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: 3.926 ng

RT: 15.47 min Scan# 2122

Delta R.T. -0.02 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

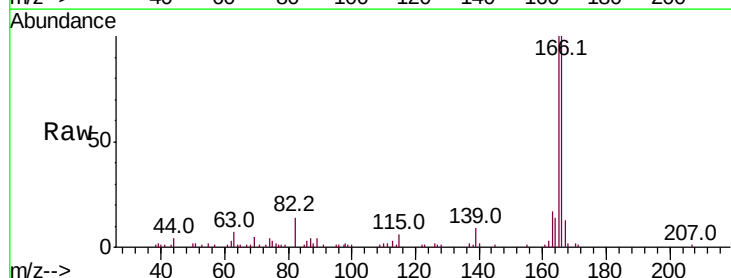
Tgt Ion:166 Resp: 79994

Ion Ratio Lower Upper

166 100

165 100.1 78.2 117.2

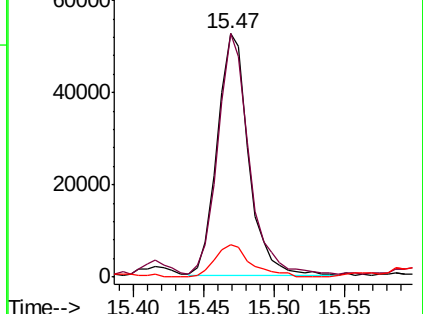
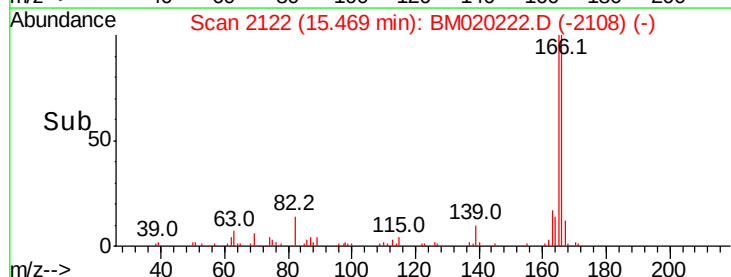
167 13.3 11.0 16.4

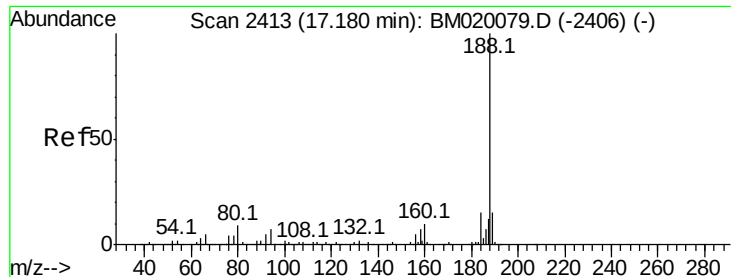


Abundance Ion 166.00 (165.70 to 166.70): E

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: BM020222.D

Acq: 09 May 2019 18:02

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PL-02-050719-B

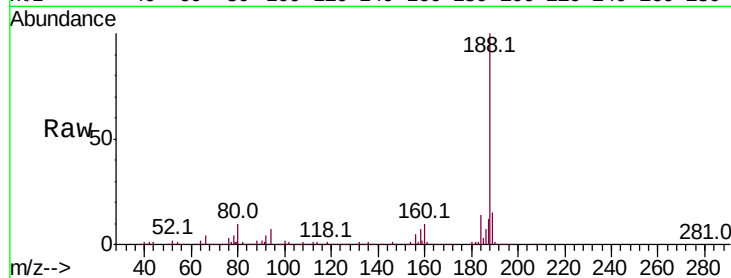
Tot Ion:188 Resp: 576239

Ion Ratio Lower Upper

188 100

94 7.4 5.8 8.6

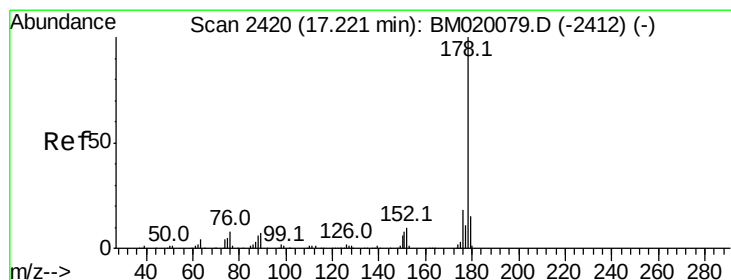
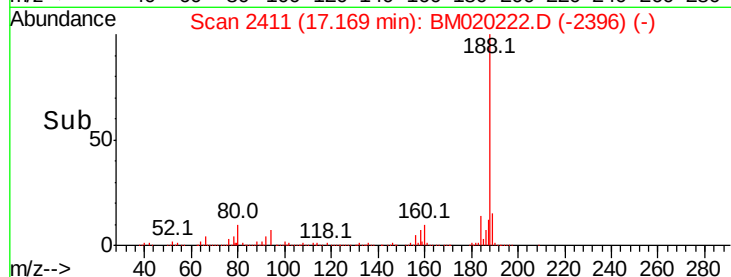
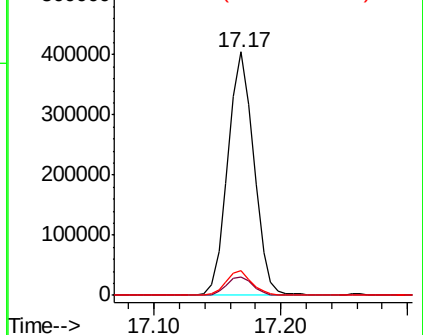
80 10.2 7.4 11.2



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: 26.051 ng

RT: 17.21 min Scan# 2418

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

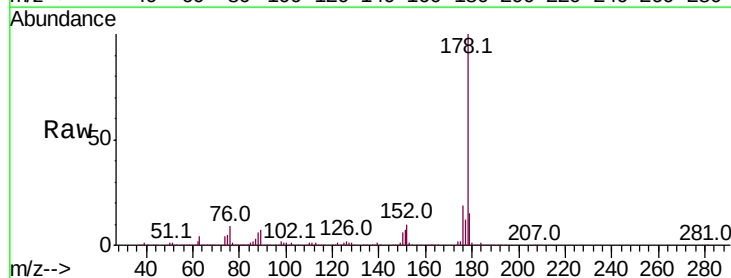
Tgt Ion:178 Resp: 828654

Ion Ratio Lower Upper

178 100

176 19.3 14.6 21.8

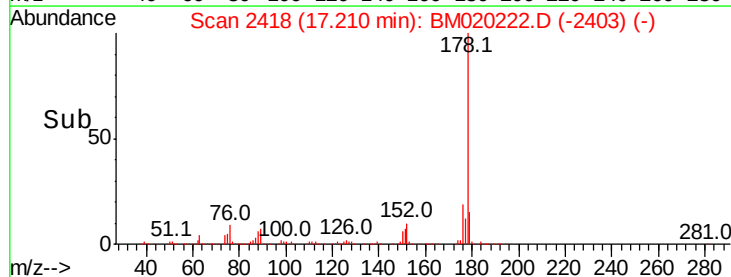
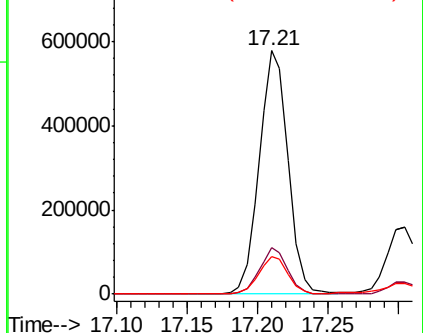
179 15.3 12.4 18.6

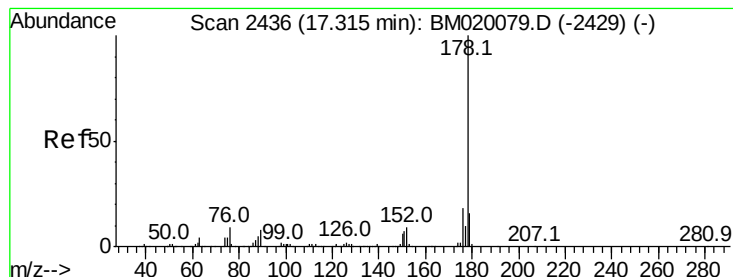


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.350 ng

RT: 17.30 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

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PL-02-050719-B

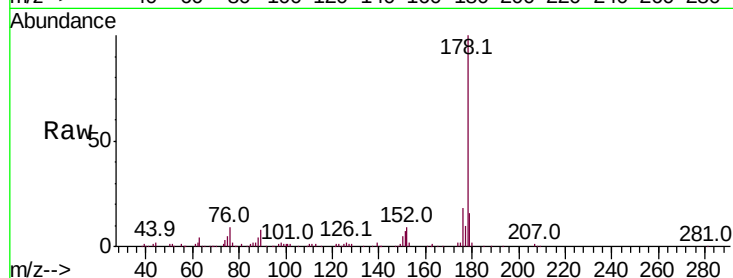
Tot Ion:178 Resp: 233765

Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

179 15.5 12.4 18.6

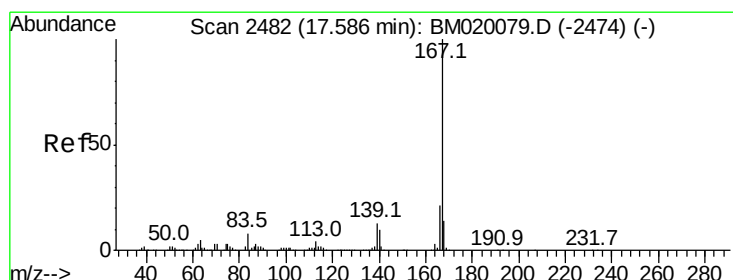
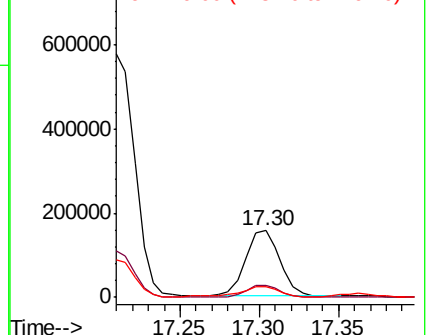
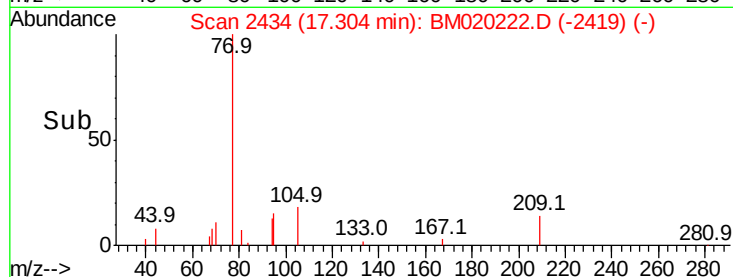


Abundance

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



#73

Carbazole

Concen: 2.305 ng

RT: 17.58 min Scan# 2481

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

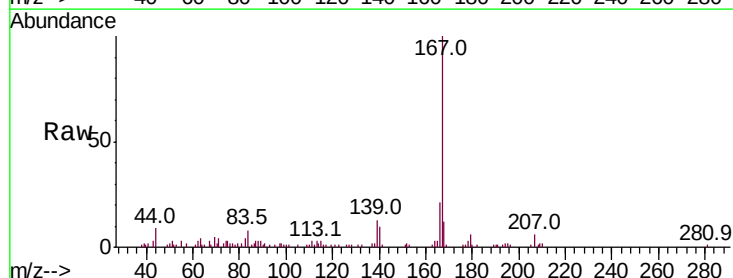
Tgt Ion:167 Resp: 66148

Ion Ratio Lower Upper

167 100

166 20.5 17.0 25.6

139 12.8 10.6 16.0

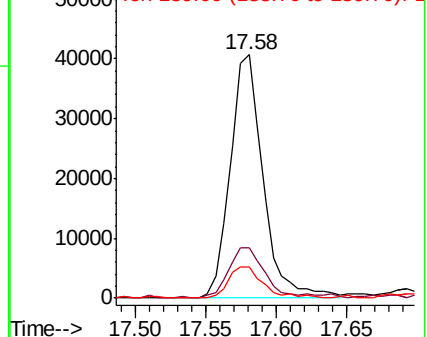
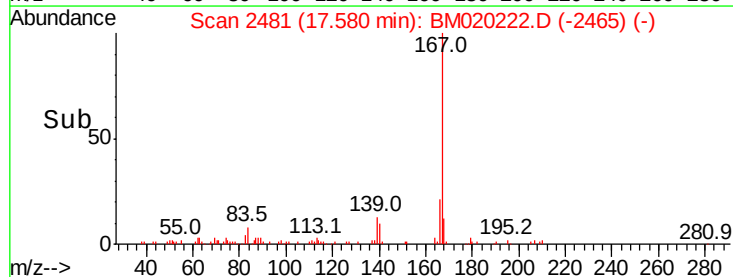


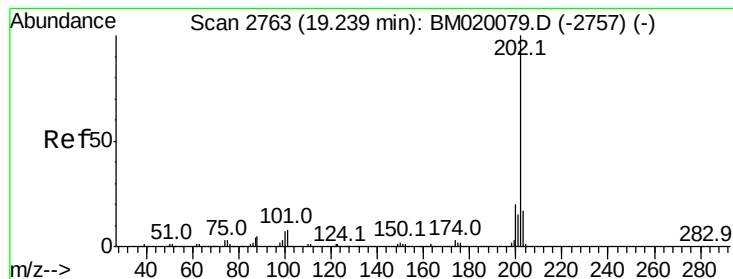
Abundance

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: 33.230 ng

RT: 19.23 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-B

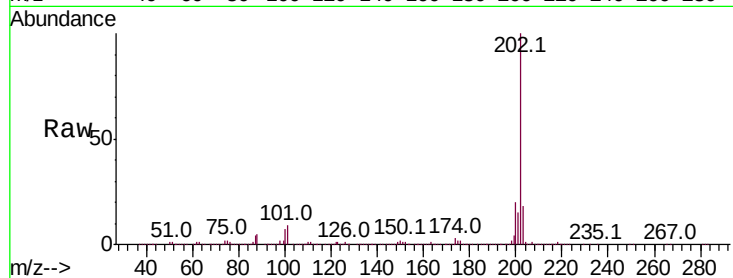
Tot Ion:202 Resp: 1337384

Ion Ratio Lower Upper

202 100

101 8.8 0.0 28.4

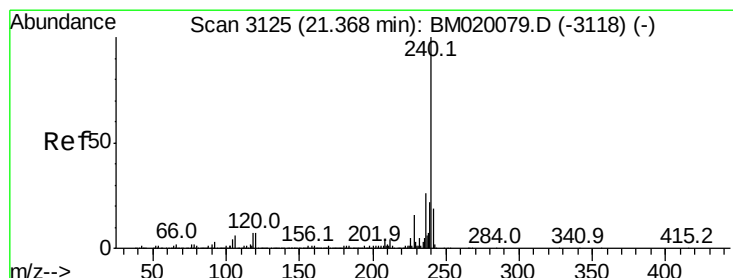
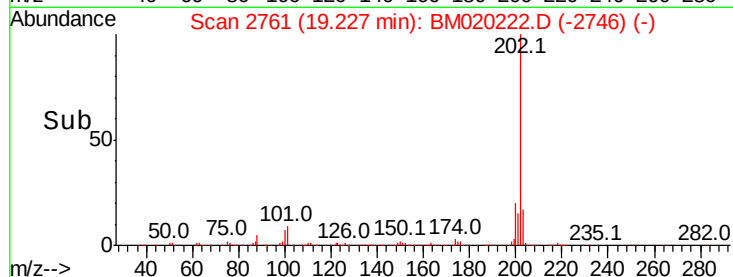
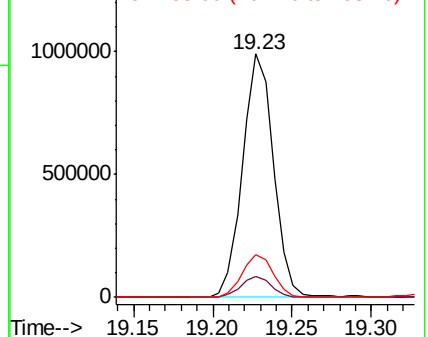
203 17.6 0.0 37.4



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: 21.36 min Scan# 3123

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

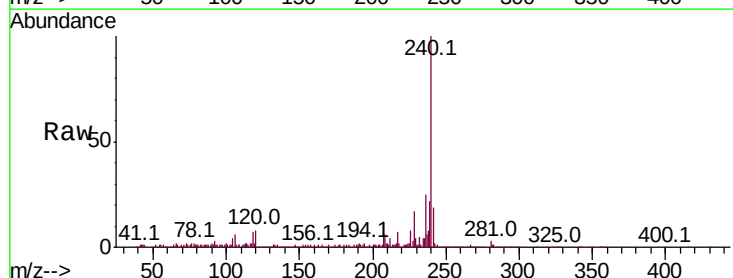
Tgt Ion:240 Resp: 636554

Ion Ratio Lower Upper

240 100

120 7.8 5.6 8.4

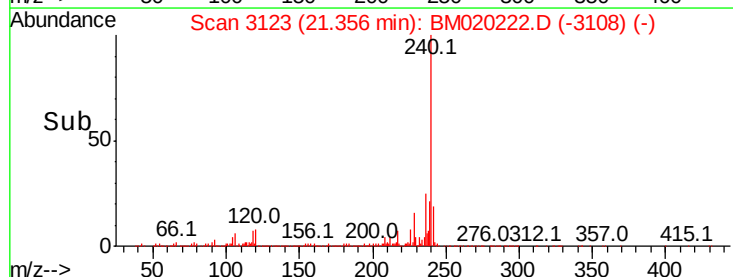
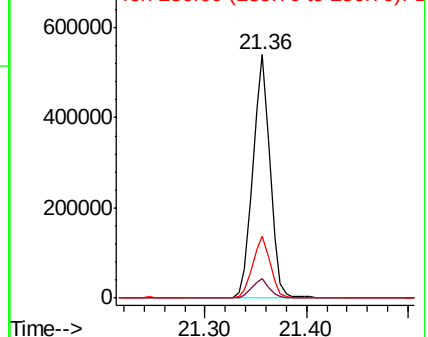
236 25.3 20.9 31.3

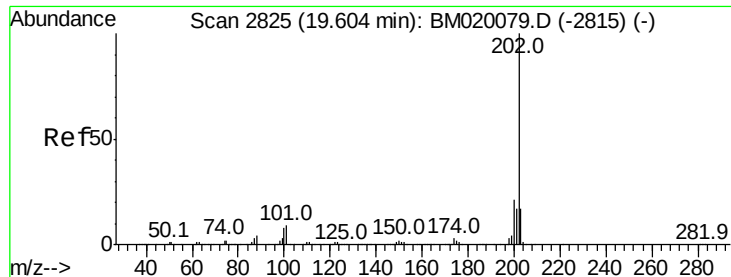


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



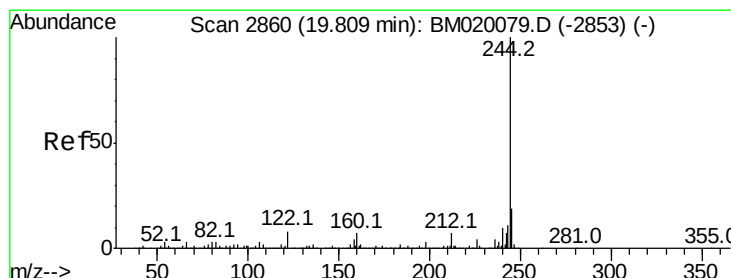
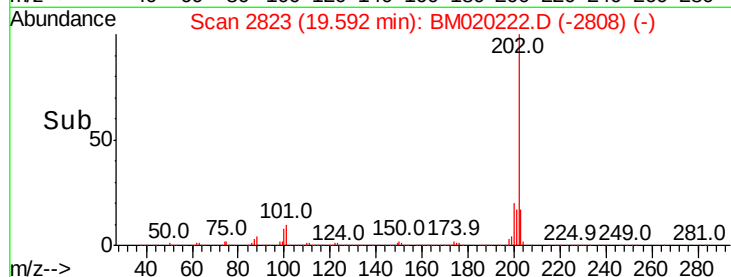
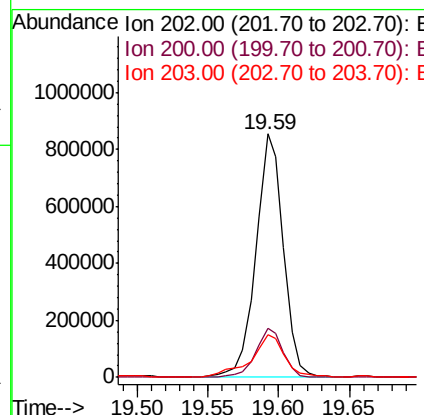
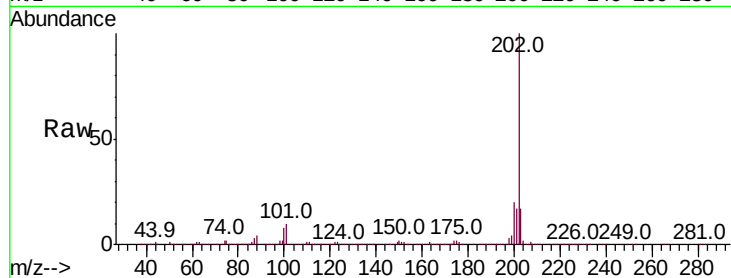


#78
 Pvrene
 Concen: 27.287 ng
 RT: 19.59 min Scan# 2823
 Delta R.T. -0.01 min
 Lab File: BM020222.D
 Acq: 09 May 2019 18:02

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

Tot Ion:202 Resp: 1166169

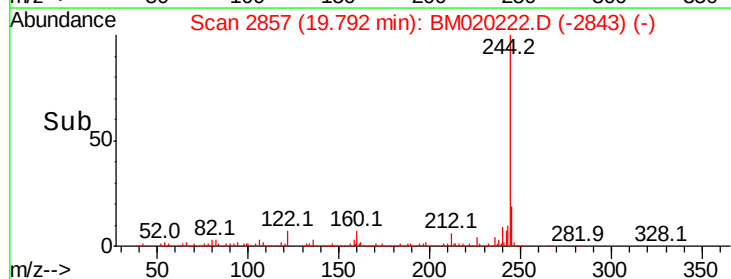
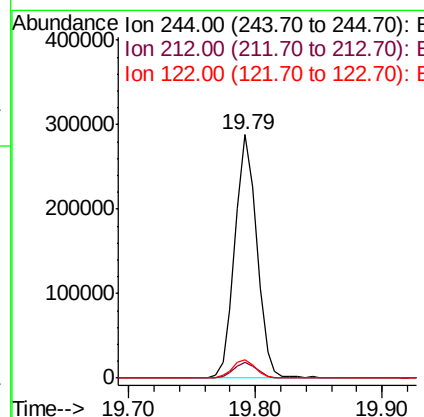
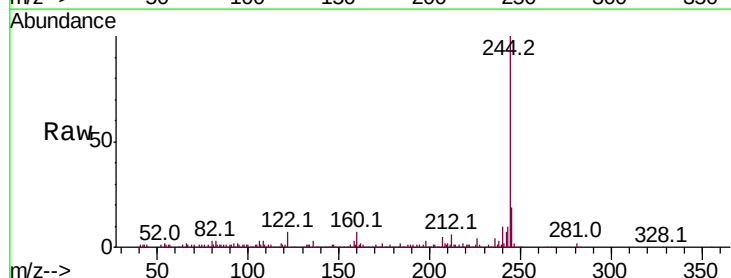
Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.5	24.7
203	17.3	13.9	20.9

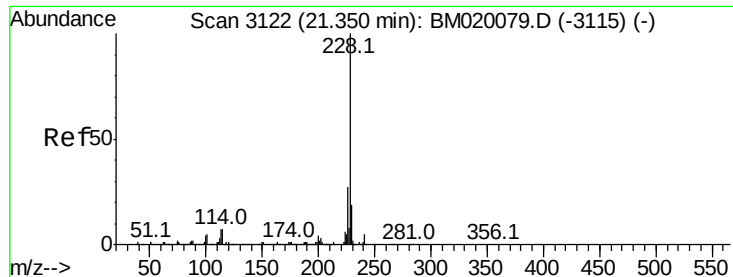


#79
 Terphenyl-d14
 Concen: 9.453 ng
 RT: 19.79 min Scan# 2857
 Delta R.T. -0.02 min
 Lab File: BM020222.D
 Acq: 09 May 2019 18:02

Tgt Ion:244 Resp: 344996

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.7	8.5
122	7.4	6.2	9.2





#81

Benzo(a)anthracene

Concen: 15.243 ng

RT: 21.34 min Scan# 3120

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-B

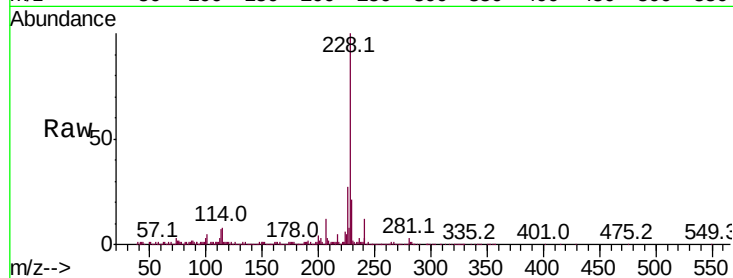
Tot Ion:228 Resp: 680476

Ion Ratio Lower Upper

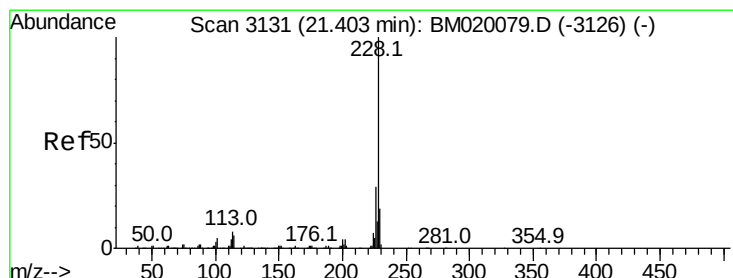
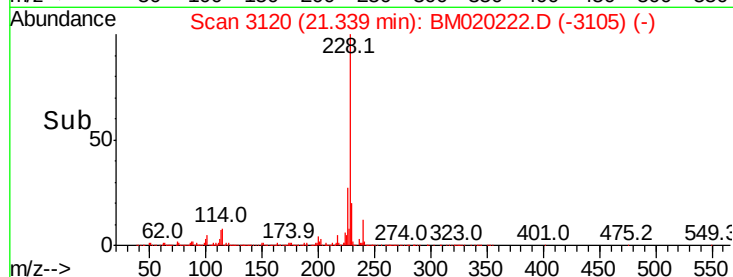
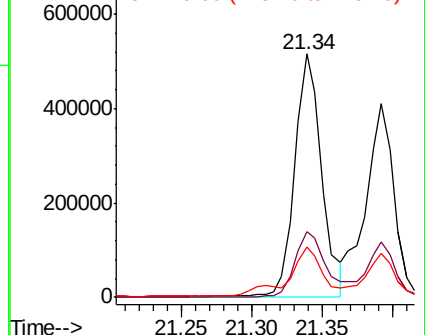
228 100

226 27.2 21.3 31.9

229 20.6 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: 13.002 ng

RT: 21.39 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

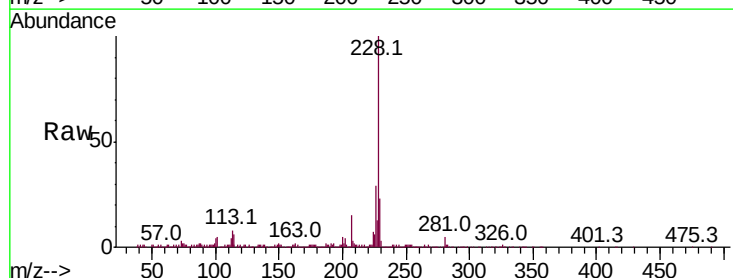
Tgt Ion:228 Resp: 562906

Ion Ratio Lower Upper

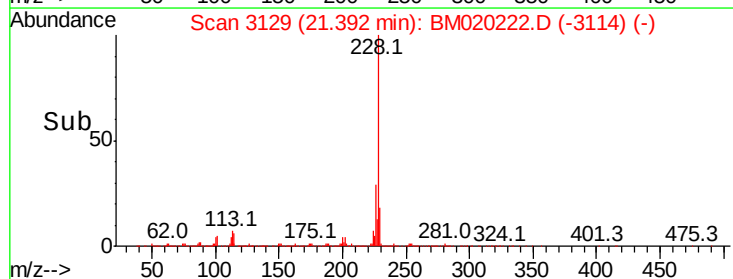
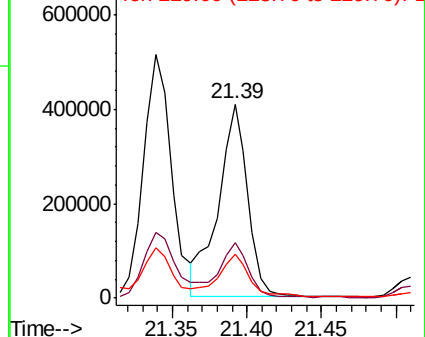
228 100

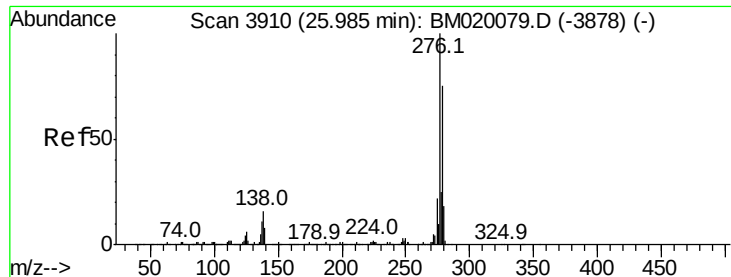
226 28.7 23.0 34.6

229 22.8 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

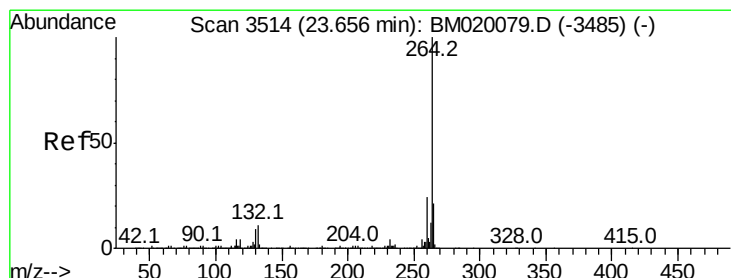
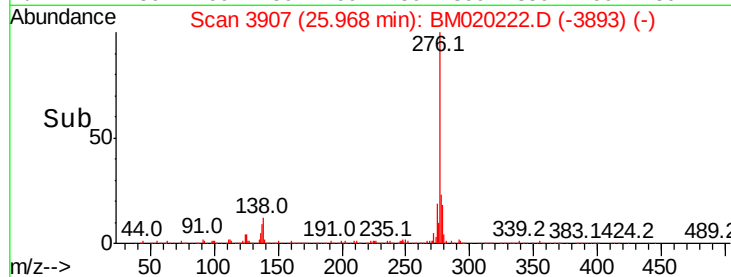
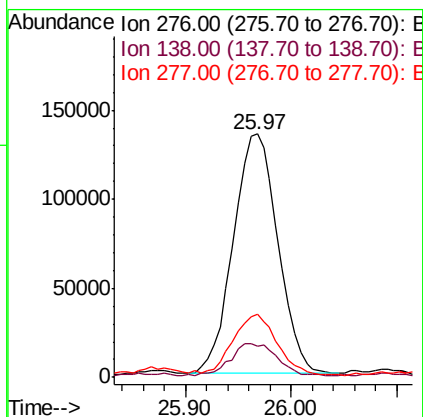
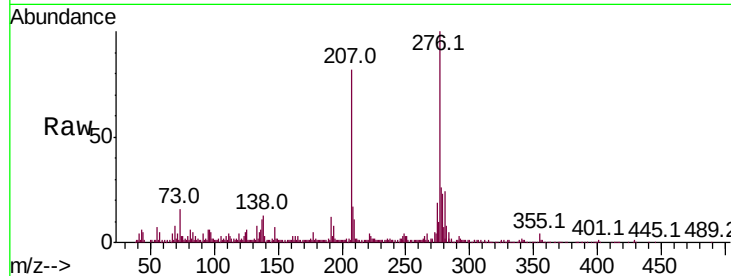




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.646 ng
 RT: 25.97 min Scan# 3907
 Delta R.T. -0.02 min
 Lab File: BM020222.D
 Acq: 09 May 2019 18:02

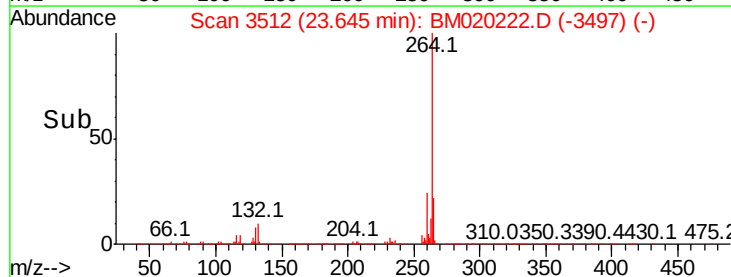
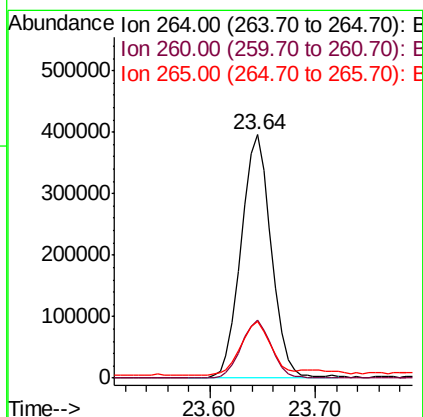
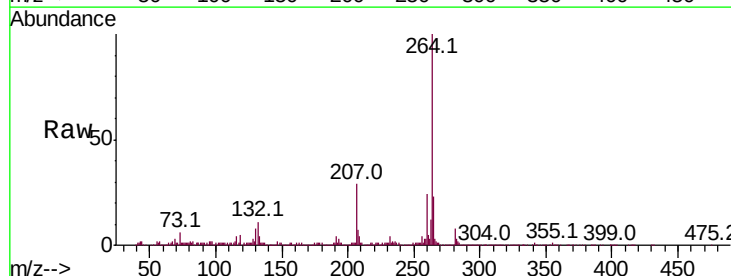
Instrument :
 BNA_M
 ClientSampleId :
 PL-02-050719-B

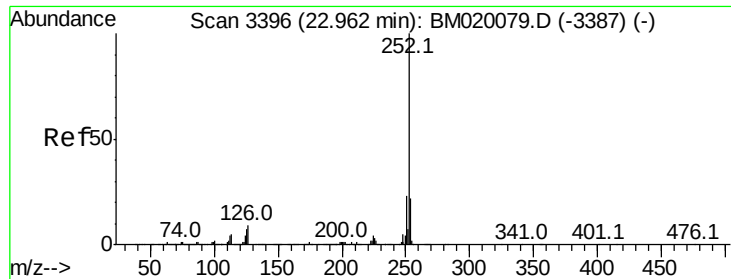
Tot Ion	Ratio	Lower	Upper
276	100		
138	14.1	0.0	0.0#
277	25.2	0.0	0.0#



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.64 min Scan# 3512
 Delta R.T. -0.01 min
 Lab File: BM020222.D
 Acq: 09 May 2019 18:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	23.1	16.9	25.3





#88

Benzo(b)fluoranthene

Concen: 14.920 ng m

RT: 22.95 min Scan# 3394

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-B

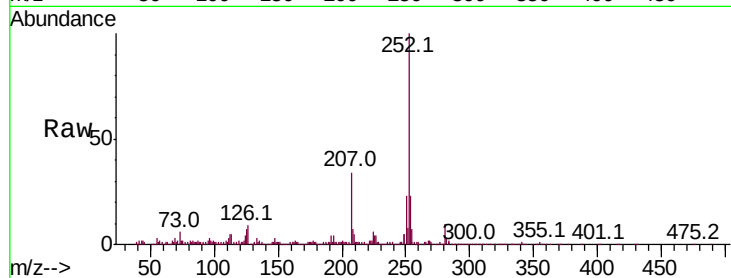
Tot Ion:252 Resp: 771478

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

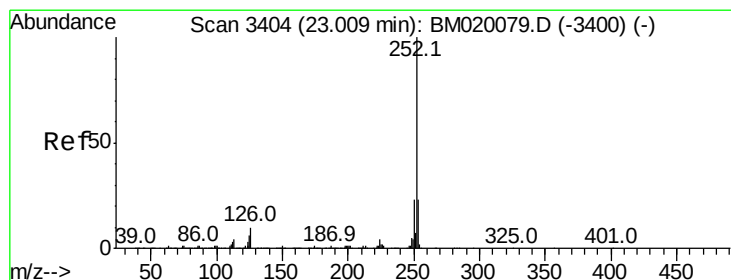
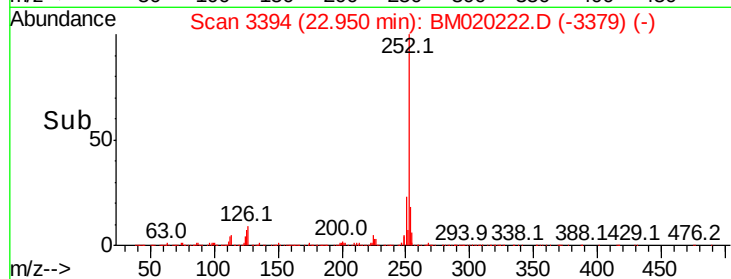
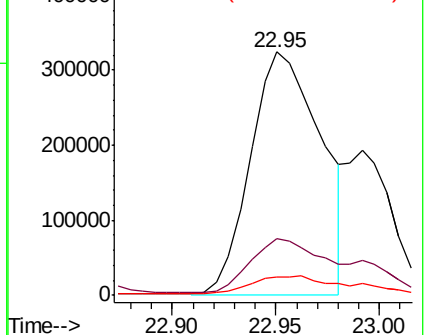
125 7.4 5.4 8.2



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: 6.232 ng m

RT: 22.99 min Scan# 3401

Delta R.T. -0.02 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

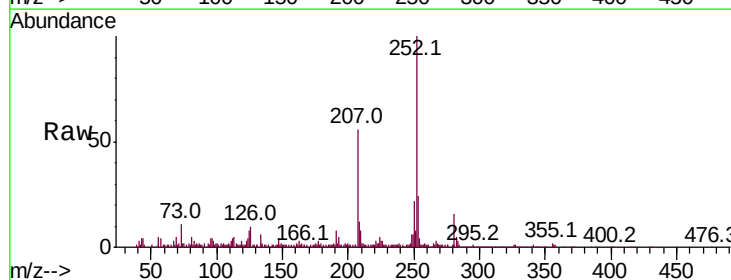
Tgt Ion:252 Resp: 293950

Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.8

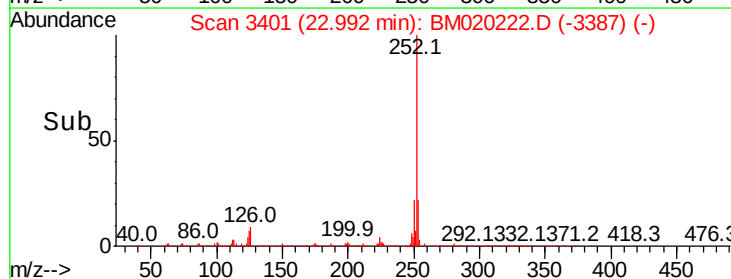
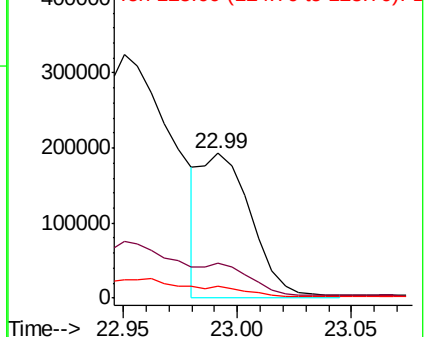
125 8.3 5.4 8.0#

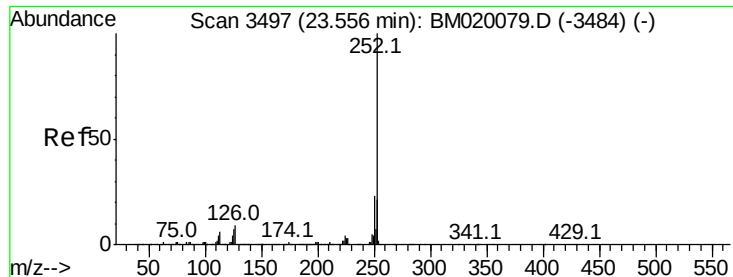


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 12.511 ng

RT: 23.54 min Scan# 3495

Delta R.T. -0.01 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-B

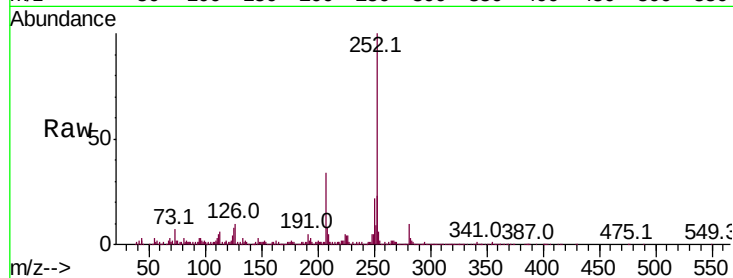
Tot Ion:252 Resp: 587586

Ion Ratio Lower Upper

252 100

253 23.3 17.0 25.6

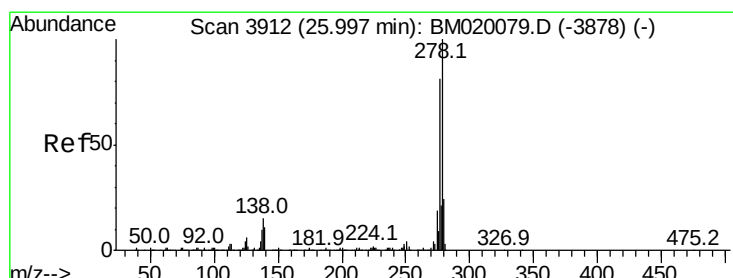
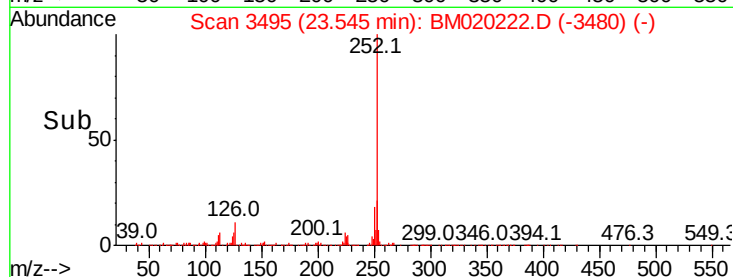
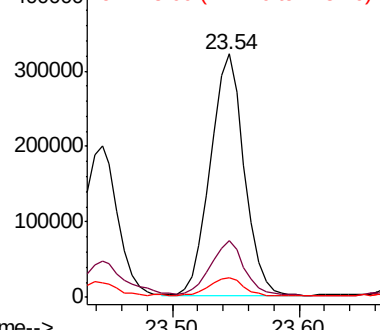
125 7.9 5.5 8.3



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: 2.175 ng

RT: 25.97 min Scan# 3907

Delta R.T. -0.03 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

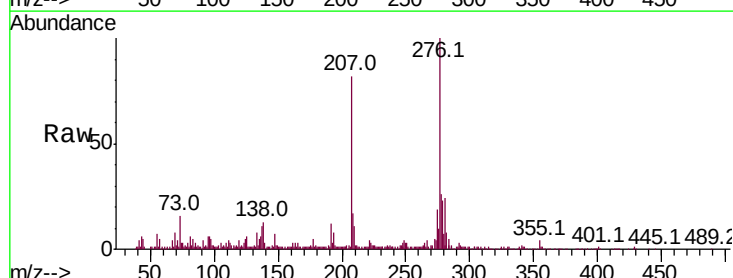
Tgt Ion:278 Resp: 106233

Ion Ratio Lower Upper

278 100

139 14.5 8.6 13.0#

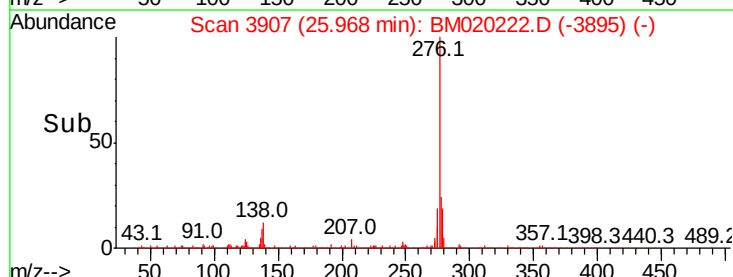
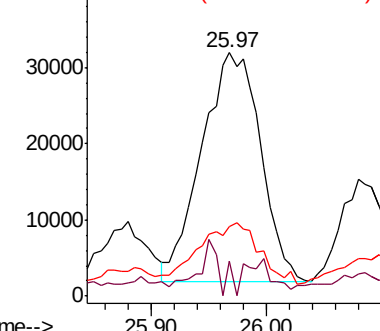
279 28.3 18.8 28.2#

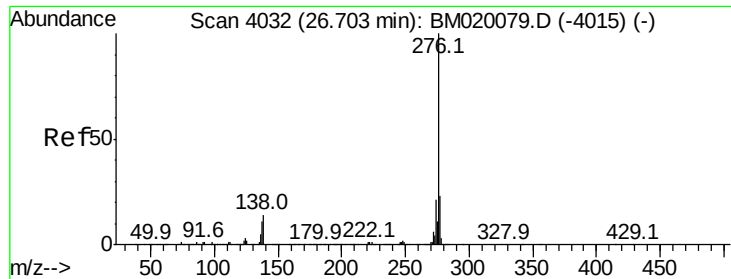


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 7.874 ng

RT: 26.69 min Scan# 4029

Delta R.T. -0.02 min

Lab File: BM020222.D

Acq: 09 May 2019 18:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-B

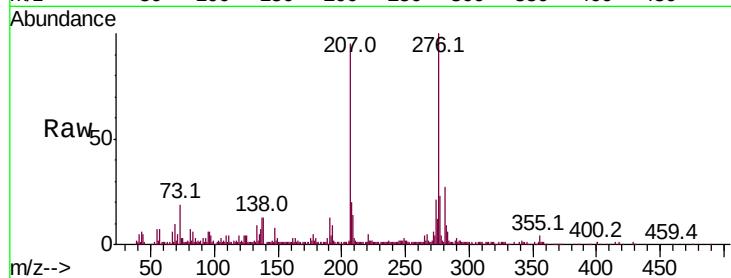
Tot Ion: 276 Resp: 365115

Ion Ratio Lower Upper

276 100

277 23.5 18.4 27.6

138 13.5 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

