

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051219\
 Data File : BM020304.D
 Acq On : 12 May 2019 18:30
 Operator : JU/SJ
 Sample : K2768-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-1218-01

Quant Time: May 13 05:23:49 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	7.76	152	53603	20.00	ng	-0.03
21) Naphthalene-d8	10.55	136	181529	20.00	ng	-0.04
39) Acenaphthene-d10	14.41	164	109539	20.00	ng	-0.02
64) Phenanthrene-d10	17.16	188	274876	20.00	ng	-0.02
76) Chrysene-d12	21.35	240	323386	20.00	ng	-0.02
87) Perylene-d12	23.64	264	406346	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	450544	137.39	ng	-0.02
7) Phenol-d6	6.93	99	604174	134.86	ng	-0.02
23) Nitrobenzene-d5	8.93	82	406648	88.44	ng	-0.03
42) 2,4,6-Tribromophenol	15.90	330	231824	136.35	ng	-0.02
45) 2-Fluorobiphenyl	13.03	172	651217	73.15	ng	-0.03
79) Terphenyl-d14	19.79	244	1132070	61.06	ng	-0.02

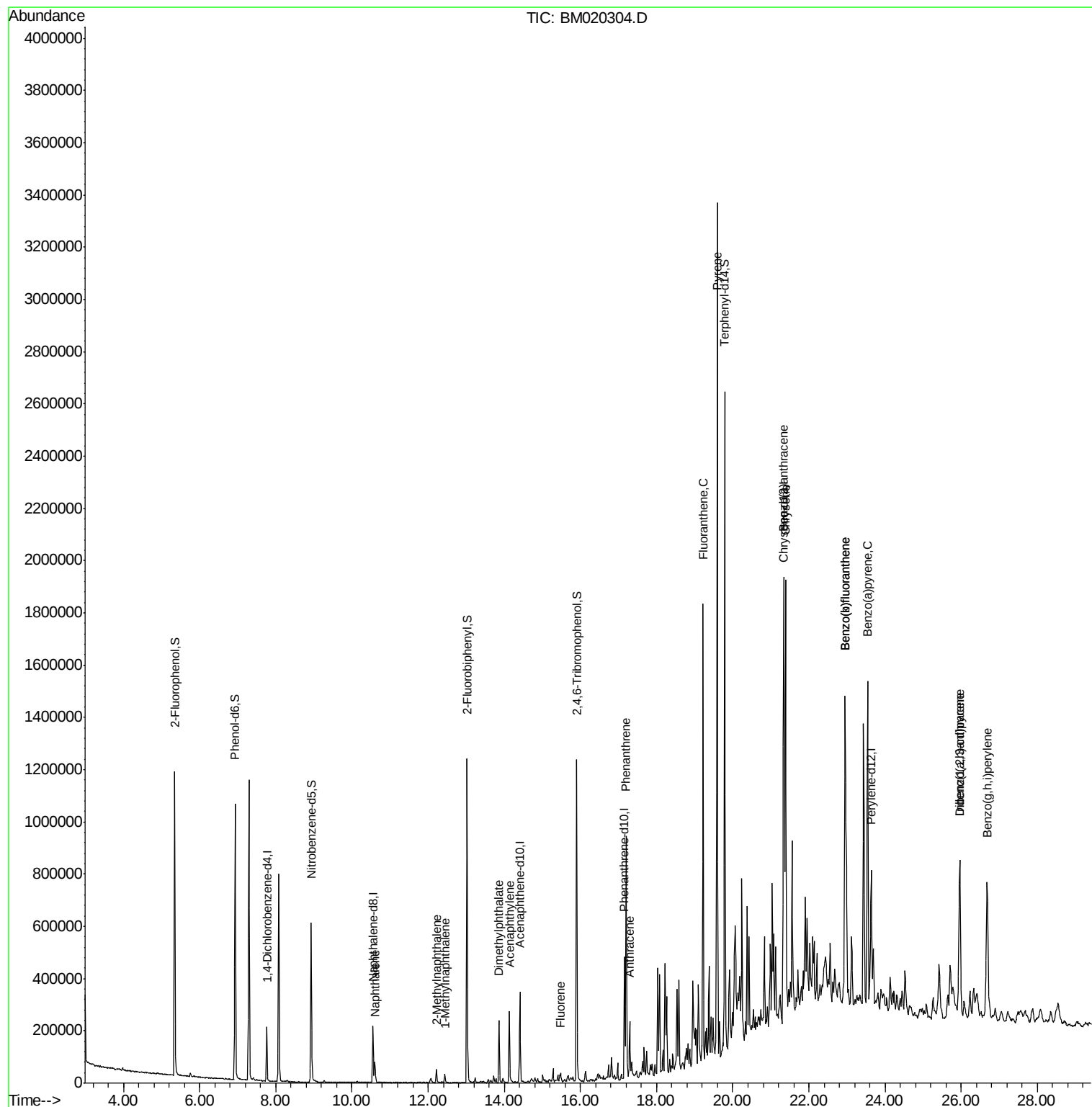
Target Compounds				Qvalue		
31) Naphthalene	10.60	128	58942	6.257	ng	98
37) 2-Methylnaphthalene	12.22	142	24949	3.633	ng	98
38) 1-Methylnaphthalene	12.44	142	16019	2.385	ng	99
49) Acenaphthylene	14.13	152	198443	17.225	ng	99
50) Dimethylphthalate	13.86	163	109230	11.733	ng	98
58) Fluorene	15.48	166	20498	2.240	ng	# 43
71) Phenanthrene	17.20	178	564982	37.235	ng	99
72) Anthracene	17.29	178	142285	9.379	ng	99
75) Fluoranthene	19.22	202	1005204	52.359	ng	99
78) Pyrene	19.59	202	2025499	93.290	ng	99
81) Benzo(a)anthracene	21.33	228	794329	35.025	ng	94
83) Chrysene	21.39	228	910032	41.375	ng	97
86) Indeno(1,2,3-cd)pyrene	25.96	276	599958	22.932	ng	# 100
88) Benzo(b)fluoranthene	22.95	252	1324921	49.377	ng	99
89) Benzo(k)fluoranthene	22.95	252	1324653	54.119	ng	# 98
90) Benzo(a)pyrene	23.54	252	727265	29.839	ng	98
91) Dibenzo(a,h)anthracene	25.96	278	152314	6.009	ng	# 89
92) Benzo(g,h,i)perylene	26.68	276	724360	30.101	ng	98

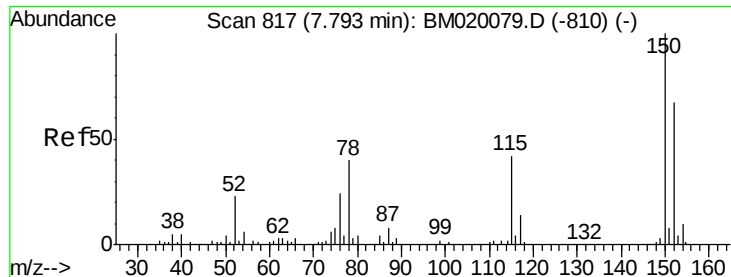
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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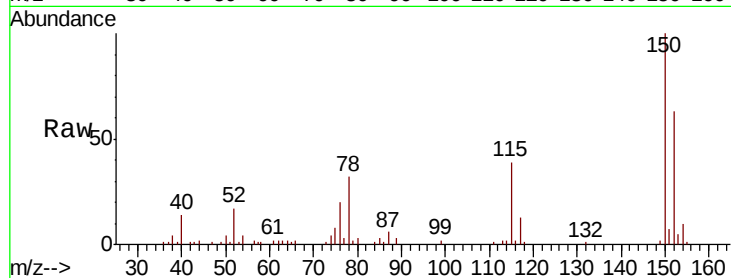


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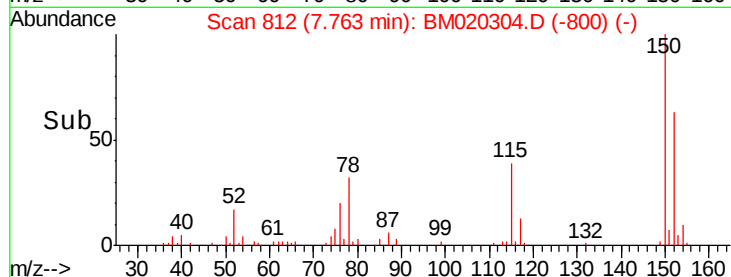
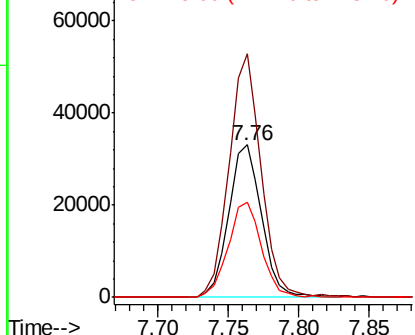
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.76 min Scan# 812
 Delta R.T. -0.03 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-1218-01

Tgt Ion:152 Resp: 53603
 Ion Ratio Lower Upper
 152 100
 150 159.8 119.8 179.8
 115 62.5 50.8 76.2



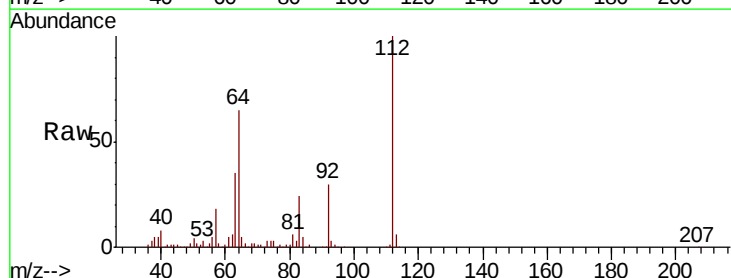
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



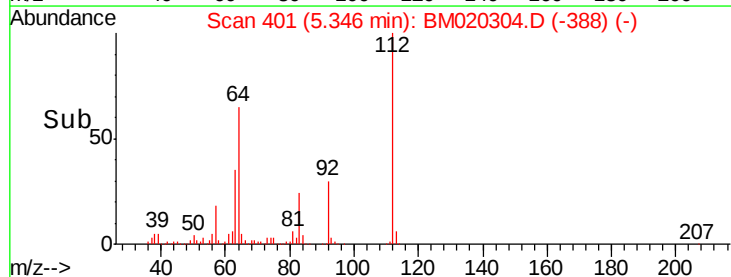
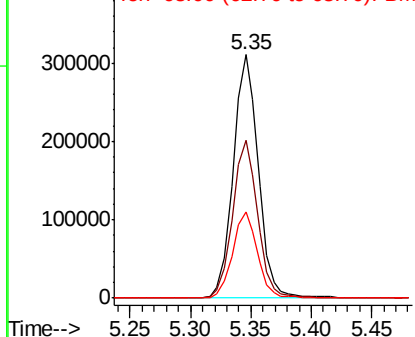
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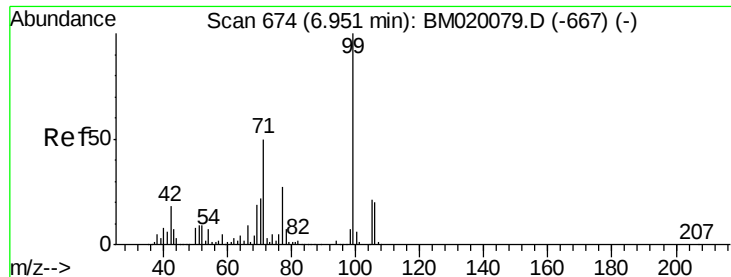
2-Fluorophenol
 Concen: 137.391 ng
 RT: 5.35 min Scan# 401
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Tgt Ion:112 Resp: 450544
 Ion Ratio Lower Upper
 112 100
 64 65.0 53.8 80.6
 63 35.4 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: 134.861 ng

RT: 6.93 min Scan# 670

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

ClientSampleId :

P026-SS013-1218-01

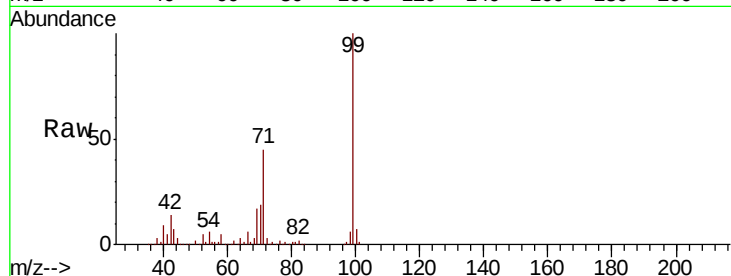
Tgt Ion: 99 Resp: 604174

Ion Ratio Lower Upper

99 100

42 14.2 14.2 21.2

71 44.5 40.3 60.5

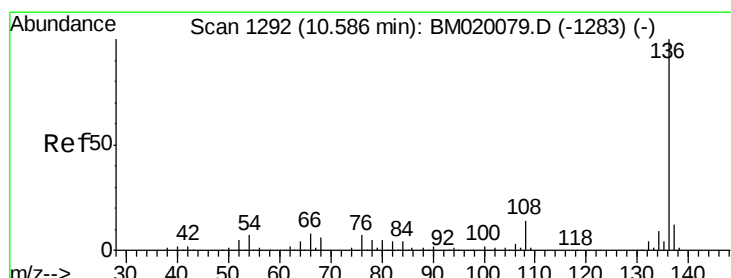
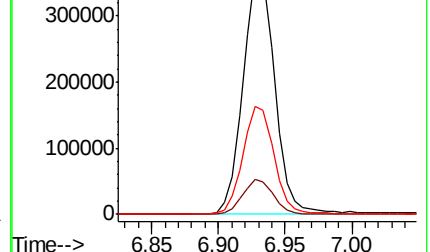
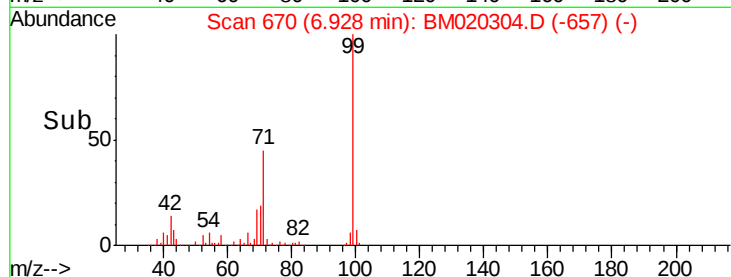


Abundance Ion 99.00 (98.70 to 99.70): BM020079.D (-667) (-)

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

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

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.55 min Scan# 1286

Delta R.T. -0.04 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Tgt Ion: 136 Resp: 181529

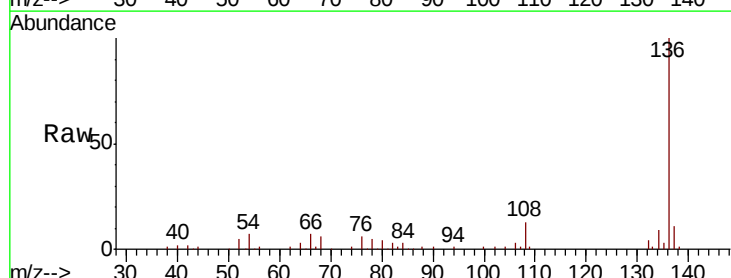
Ion Ratio Lower Upper

136 100

137 11.0 9.6 14.4

54 6.6 5.5 8.3

68 6.2 4.6 6.8



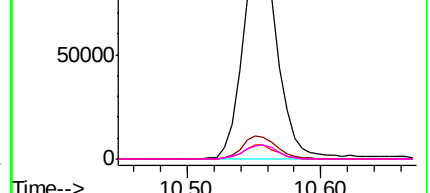
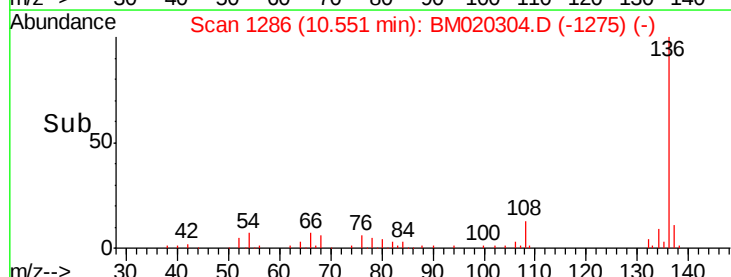
Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

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) (-)

Time-->

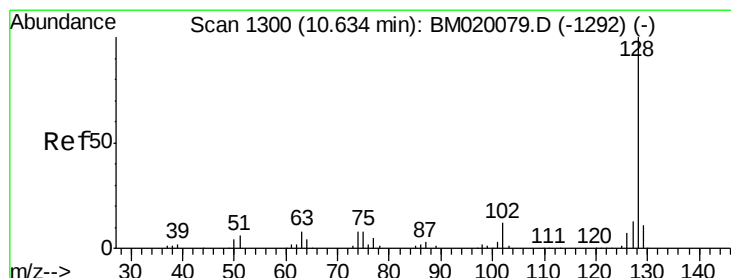
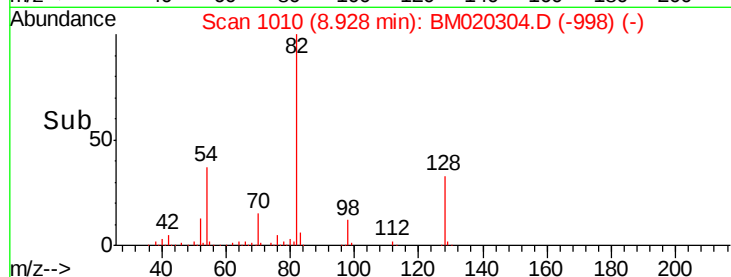
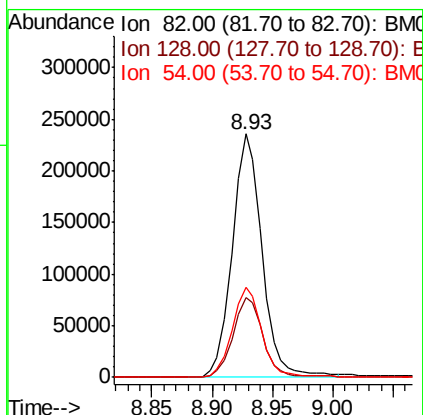
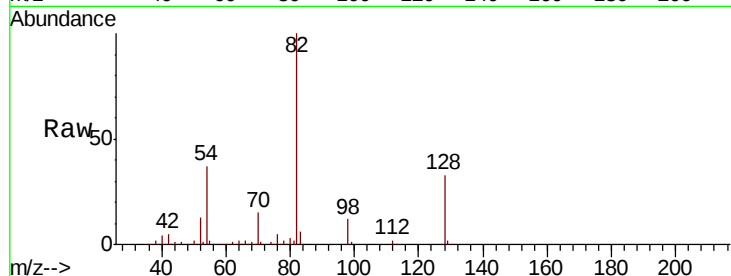




#23
 Nitrobenzene-d5
 Concen: 88.440 ng
 RT: 8.93 min Scan# 1010
 Delta R.T. -0.03 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

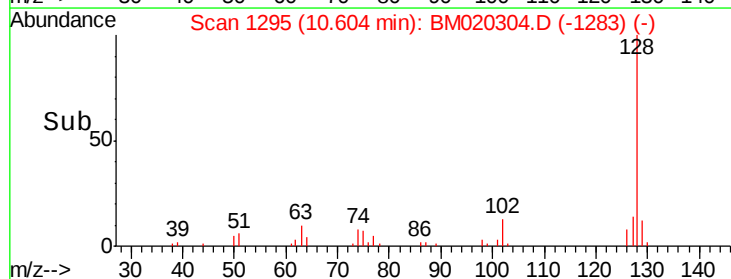
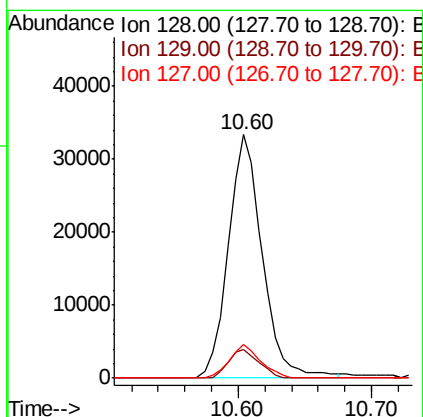
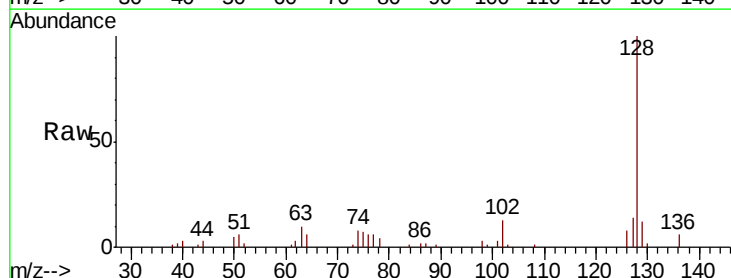
Instrument :
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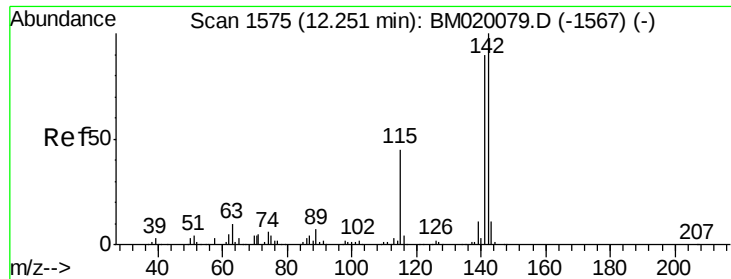
Tgt Ion	Ratio	Lower	Upper
82	100		
128	32.9	25.2	37.8
54	36.9	31.9	47.9



#31
 Naphthalene
 Concen: 6.257 ng
 RT: 10.60 min Scan# 1295
 Delta R.T. -0.03 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.0	13.4
127	13.9	10.4	15.6

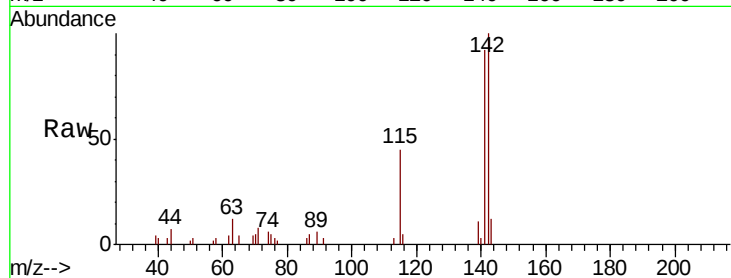




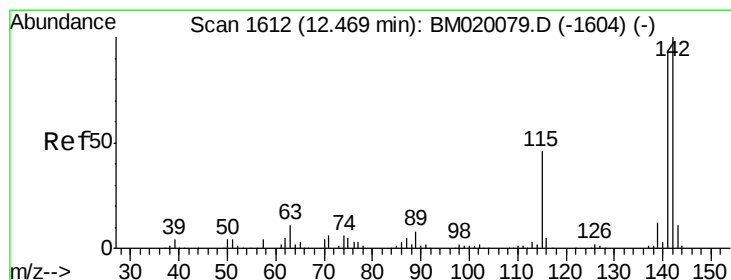
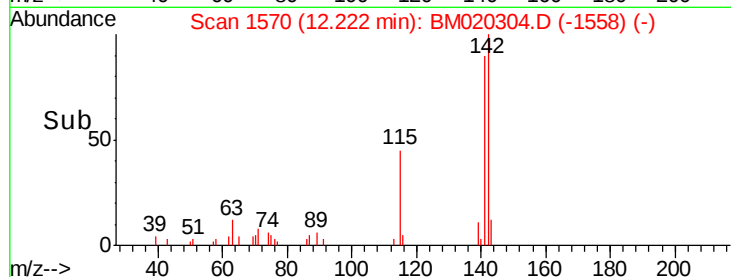
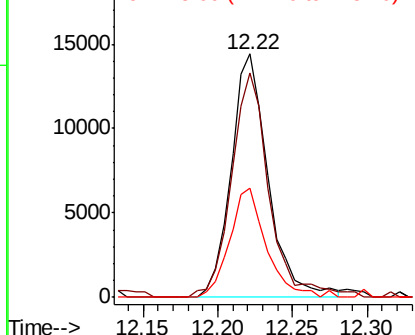
#37
2-Methylnaphthalene
Concen: 3.633 ng
RT: 12.22 min Scan# 1570
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tgt Ion:142 Resp: 24949
Ion Ratio Lower Upper
142 100
141 92.4 71.6 107.4
115 45.0 35.8 53.6

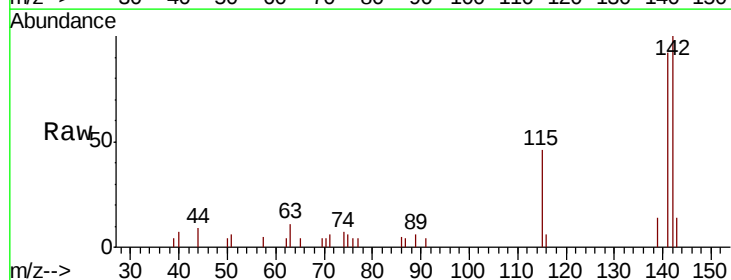


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

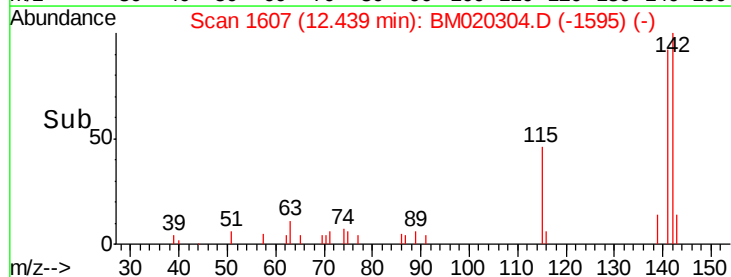
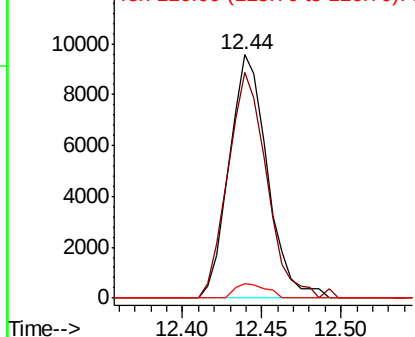


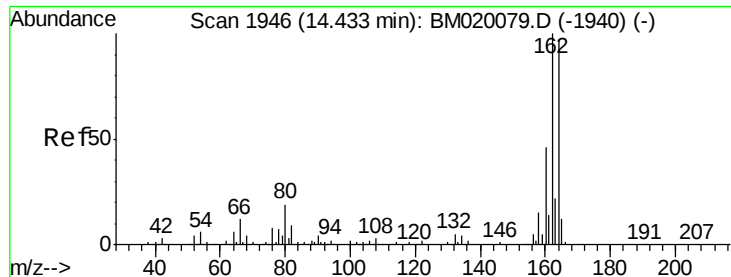
#38
1-Methylnaphthalene
Concen: 2.385 ng
RT: 12.44 min Scan# 1607
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion:142 Resp: 16019
Ion Ratio Lower Upper
142 100
141 92.5 74.8 112.2
116 5.8 3.9 5.9



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

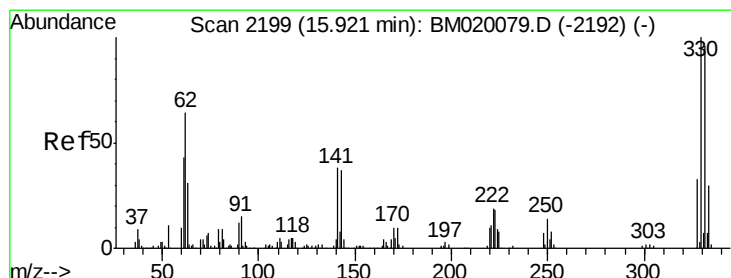
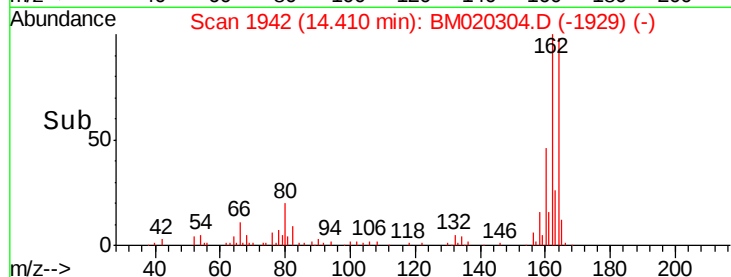
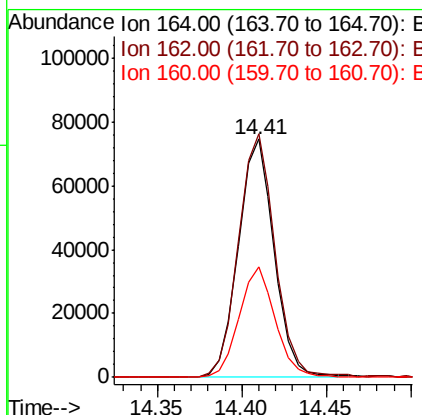
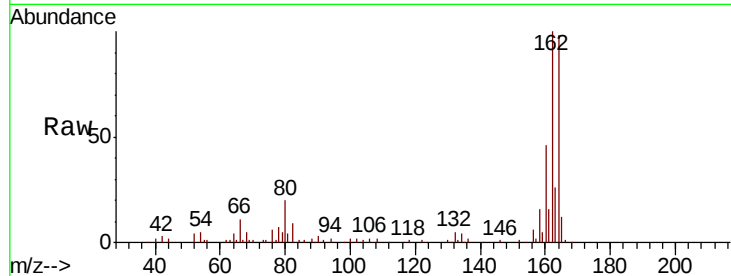




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.41 min Scan# 1942
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

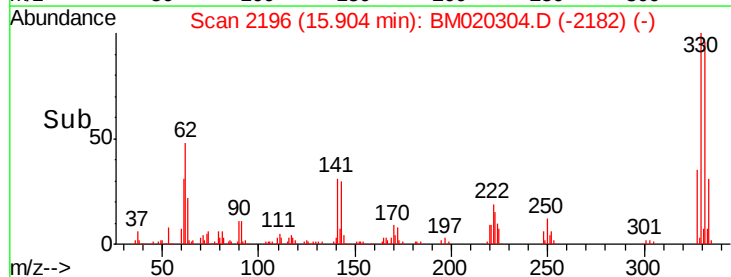
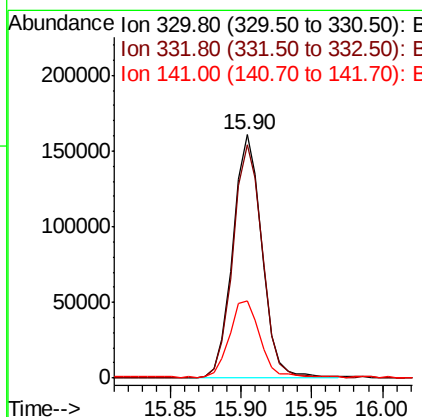
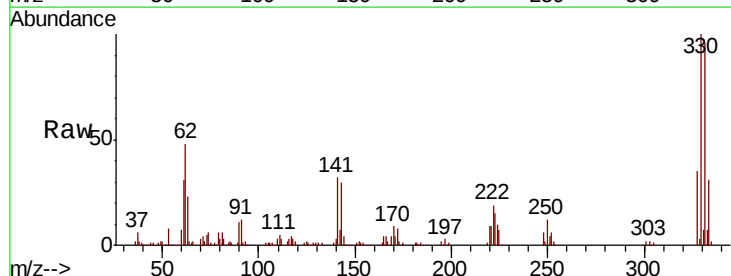
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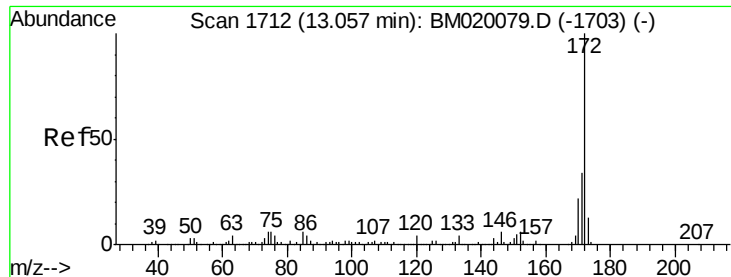
Tgt Ion:164 Resp: 109539
 Ion Ratio Lower Upper
 164 100
 162 102.3 82.2 123.2
 160 46.6 37.6 56.4



#42
 2,4,6-Tribromophenol
 Concen: 136.347 ng
 RT: 15.90 min Scan# 2196
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Tgt Ion:330 Resp: 231824
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.8 115.2
 141 33.0 29.2 43.8

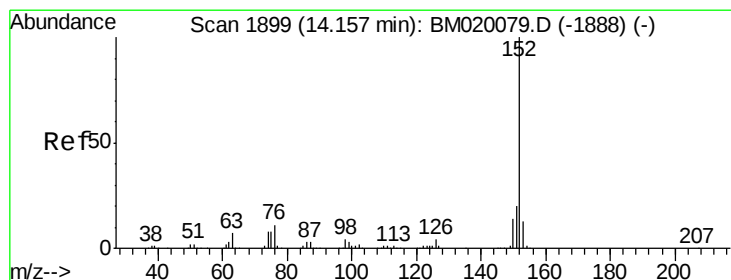
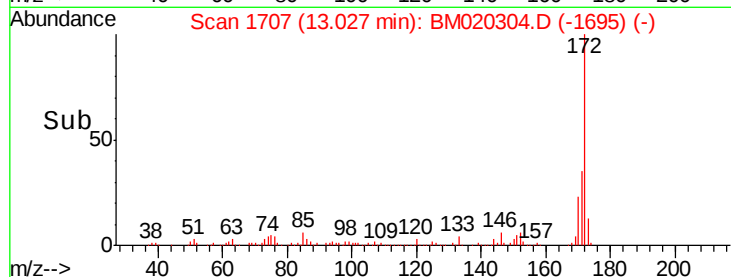
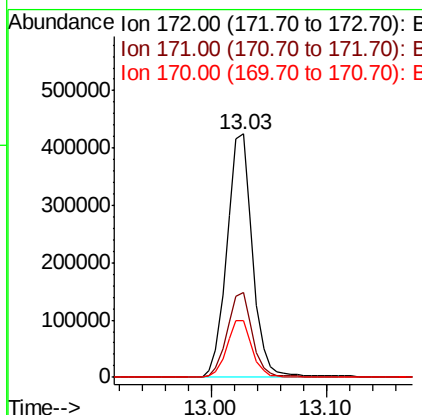
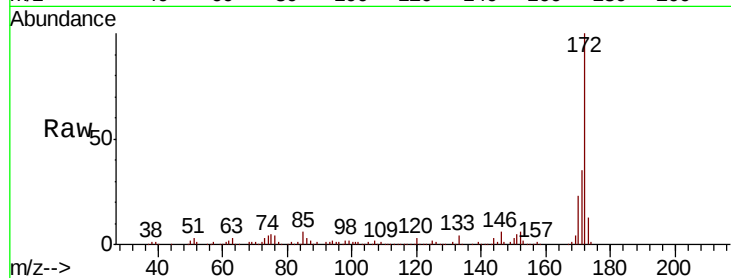




#45
2-Fluorobiphenyl
Concen: 73.146 ng
RT: 13.03 min Scan# 1707
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

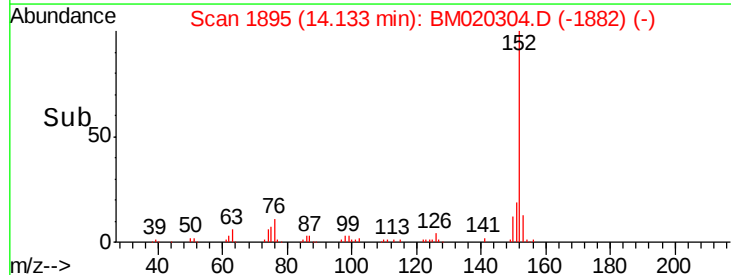
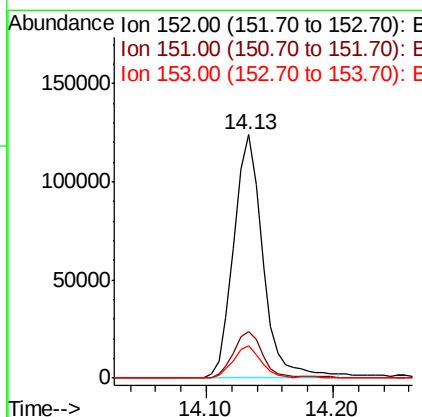
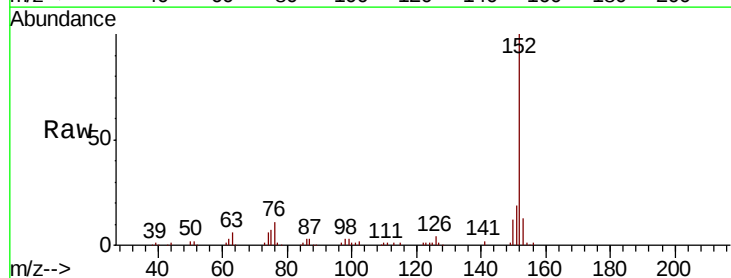
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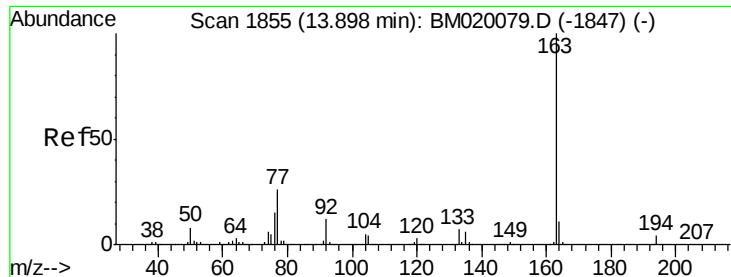
Tgt Ion:172 Resp: 651217
Ion Ratio Lower Upper
172 100
171 34.7 27.3 40.9
170 23.1 17.9 26.9



#49
Acenaphthylene
Concen: 17.225 ng
RT: 14.13 min Scan# 1895
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion:152 Resp: 198443
Ion Ratio Lower Upper
152 100
151 19.2 16.2 24.2
153 13.2 10.6 16.0





#50

Dimethylphthalate

Concen: 11.733 ng

RT: 13.86 min Scan# 1849

Delta R.T. -0.04 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

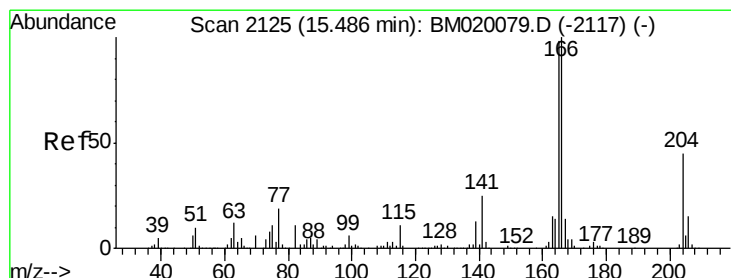
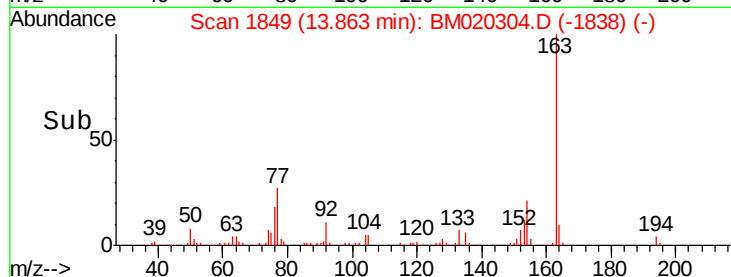
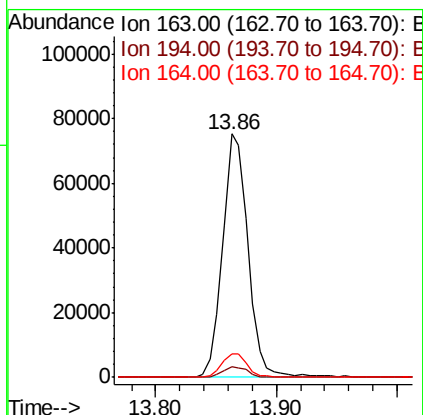
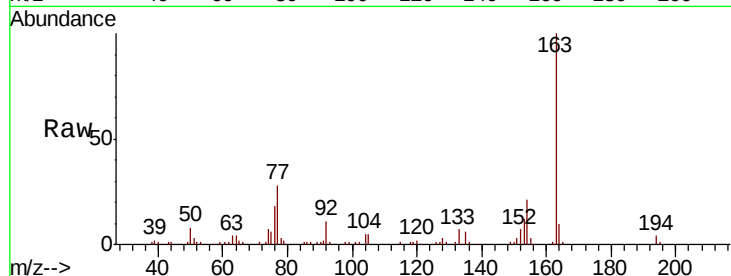
Instrument :

BNA_M

ClientSampleId :

P026-SS013-1218-01

Tgt Ion:163	Resp:	109230
Ion Ratio	Lower	Upper
163	100	
194	4.2	3.6 5.4
164	9.7	8.4 12.6



#58

Fluorene

Concen: 2.240 ng

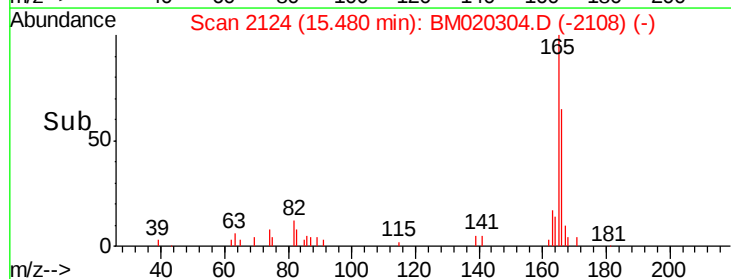
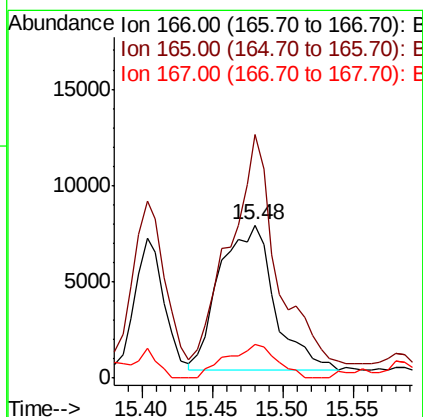
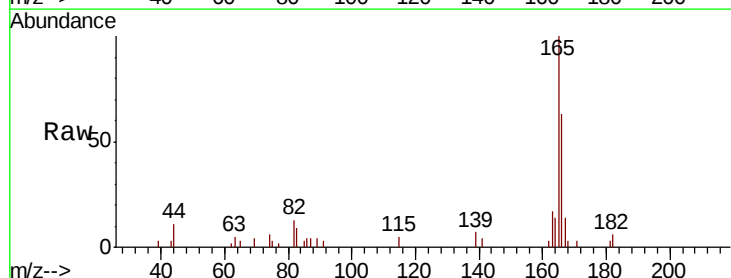
RT: 15.48 min Scan# 2124

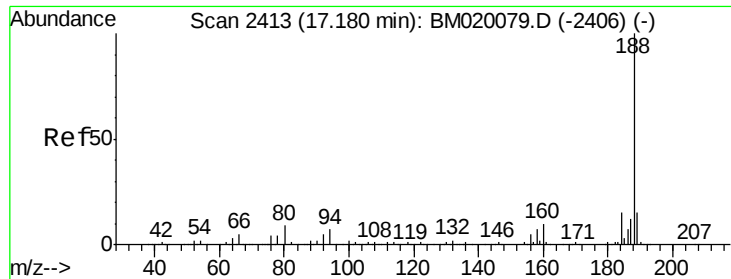
Delta R.T. -0.01 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Tgt Ion:166	Resp:	20498
Ion Ratio	Lower	Upper
166	100	
165	159.2	78.2 117.2#
167	21.9	11.0 16.4#

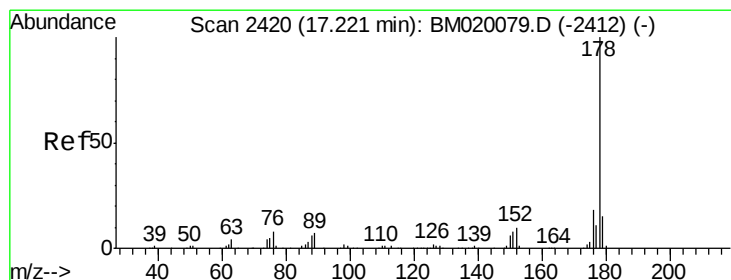
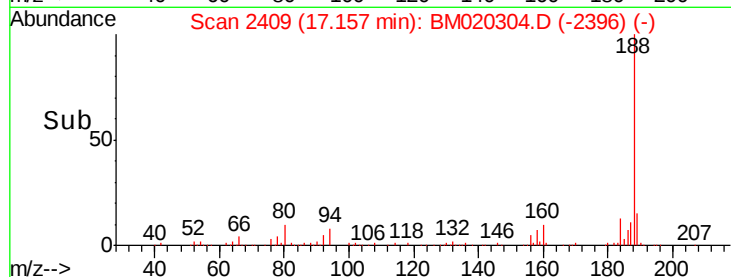
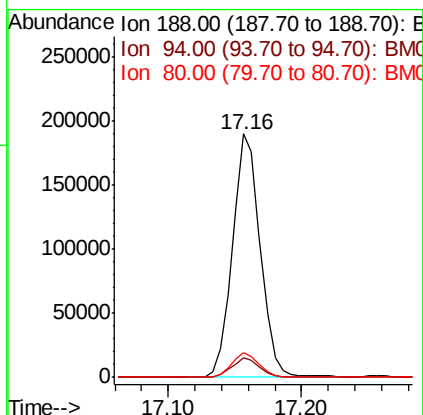
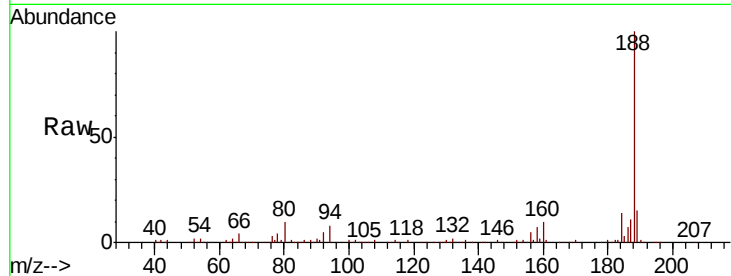




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.16 min Scan# 2409
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

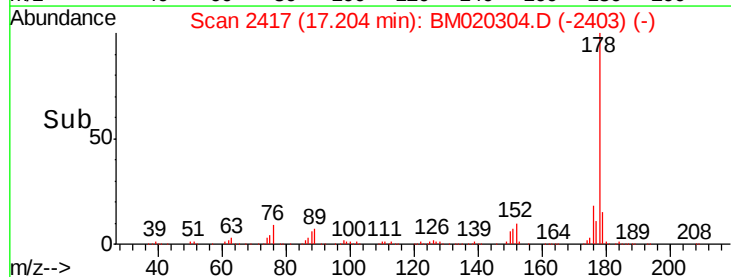
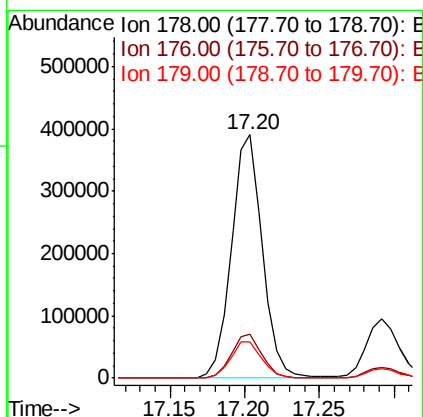
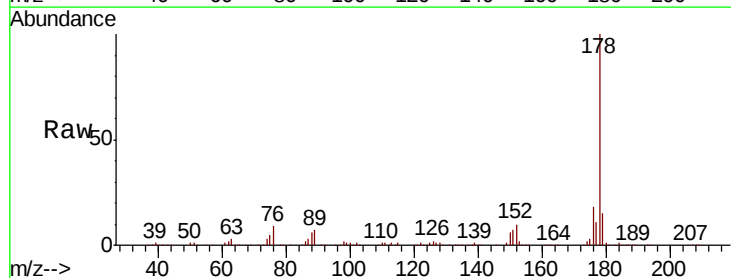
Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-1218-01

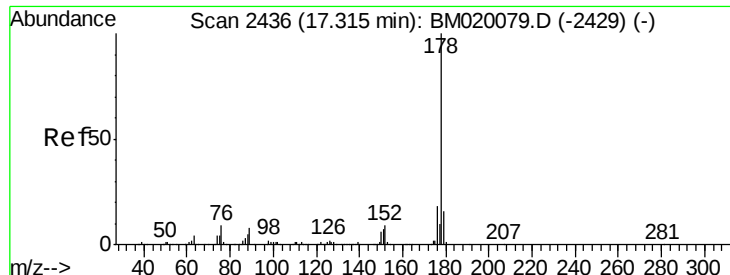
Tgt Ion:188 Resp: 274876
 Ion Ratio Lower Upper
 188 100
 94 8.2 5.8 8.6
 80 10.1 7.4 11.2



#71
 Phenanthrene
 Concen: 37.235 ng
 RT: 17.20 min Scan# 2417
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Tgt Ion:178 Resp: 564982
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.6 21.8
 179 14.9 12.4 18.6





#72

Anthracene

Concen: 9.379 ng

RT: 17.29 min Scan# 2432

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

ClientSampleId :

P026-SS013-1218-01

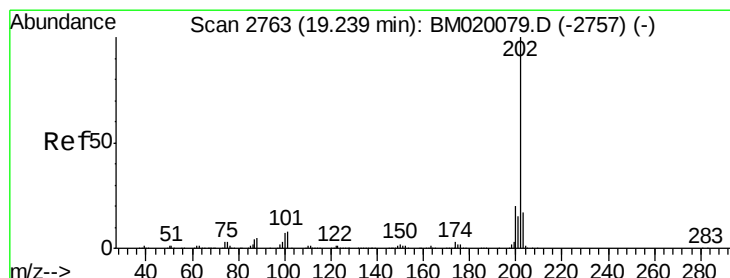
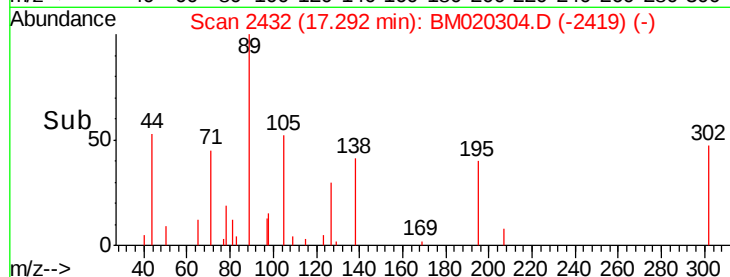
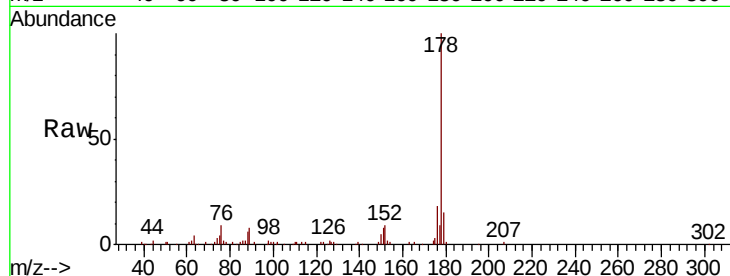
Tgt Ion:178 Resp: 142285

Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

179 15.2 12.4 18.6



#75

Fluoranthene

Concen: 52.359 ng

RT: 19.22 min Scan# 2760

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

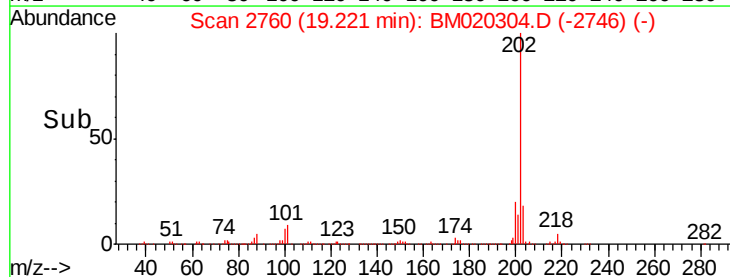
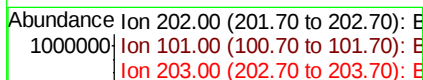
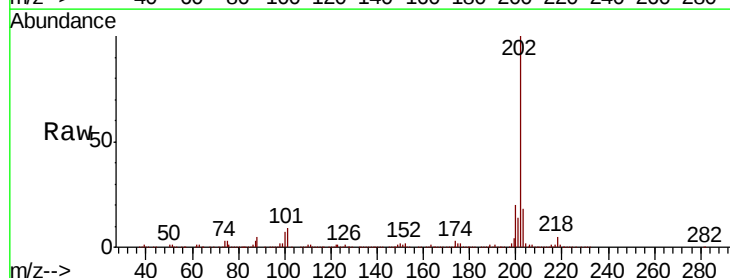
Tgt Ion:202 Resp: 1005204

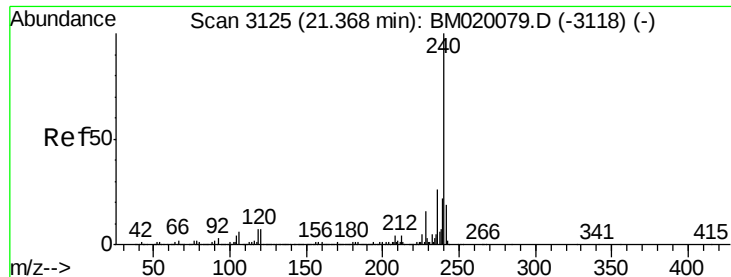
Ion Ratio Lower Upper

202 100

101 8.9 0.0 28.4

203 18.1 0.0 37.4

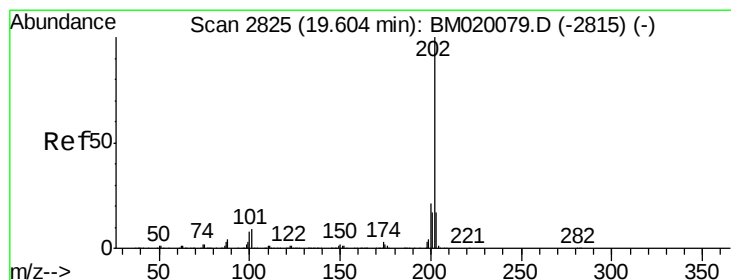
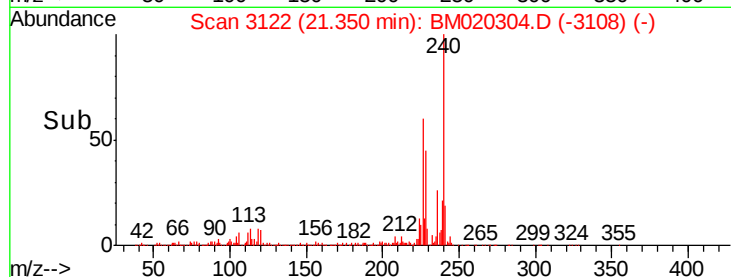
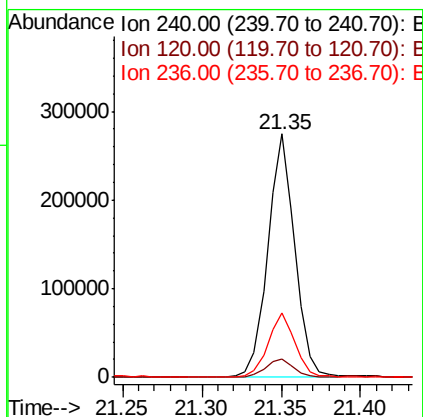
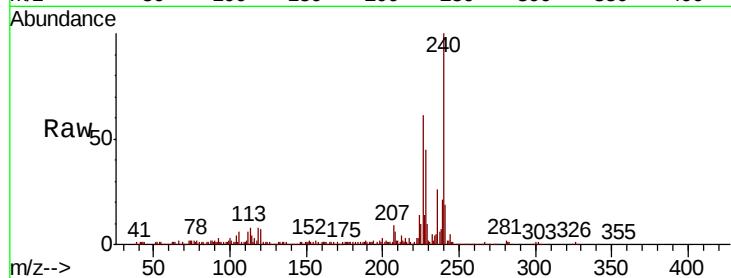




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.35 min Scan# 3122
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

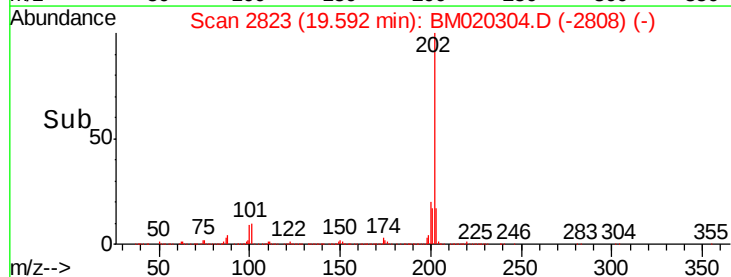
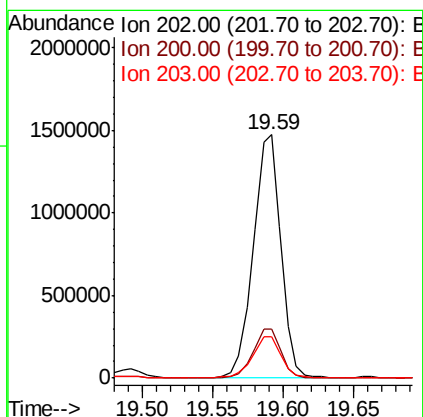
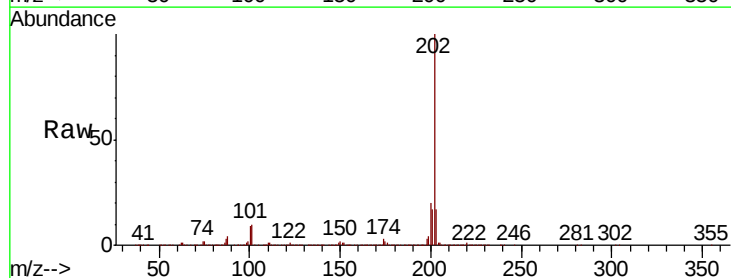
Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

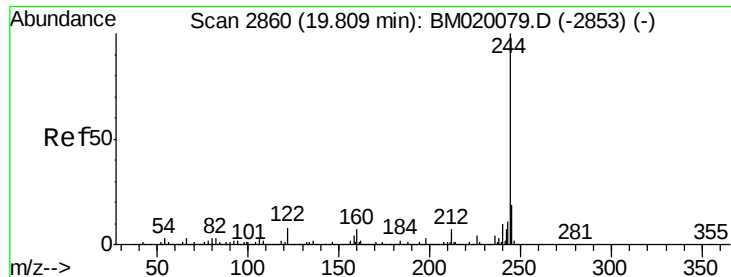
Tgt Ion:240 Resp: 323386
Ion Ratio Lower Upper
240 100
120 7.4 5.6 8.4
236 26.4 20.9 31.3



#78
Pyrene
Concen: 93.290 ng
RT: 19.59 min Scan# 2823
Delta R.T. -0.01 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion:202 Resp: 2025499
Ion Ratio Lower Upper
202 100
200 20.1 16.5 24.7
203 17.2 13.9 20.9





#79

Terphenyl-d14

Concen: 61.059 ng

RT: 19.79 min Scan# 2856

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

ClientSampleId :

P026-SS013-1218-01

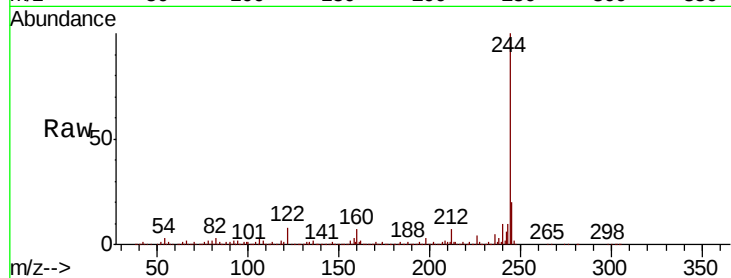
Tgt Ion:244 Resp: 1132070

Ion Ratio Lower Upper

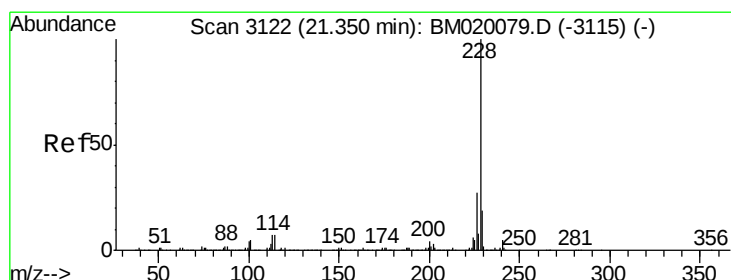
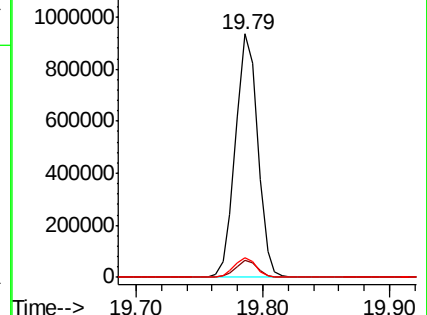
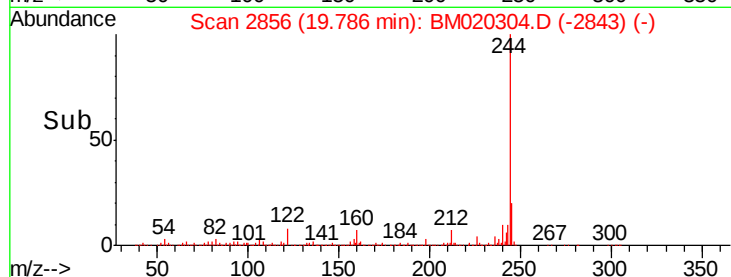
244 100

212 7.0 5.7 8.5

122 8.1 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: 35.025 ng

RT: 21.33 min Scan# 3119

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

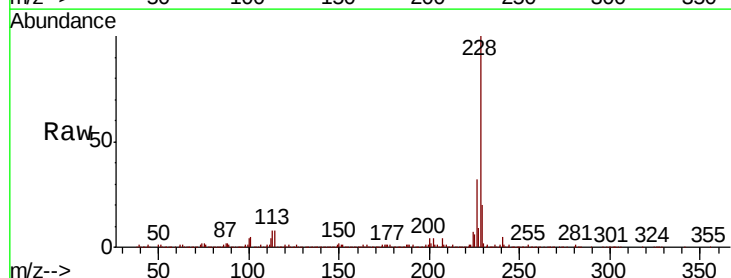
Tgt Ion:228 Resp: 794329

Ion Ratio Lower Upper

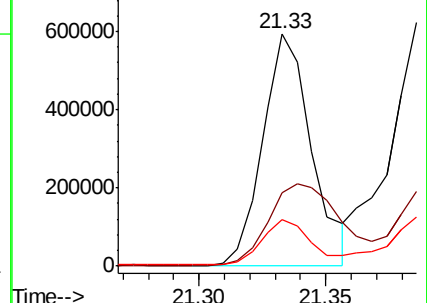
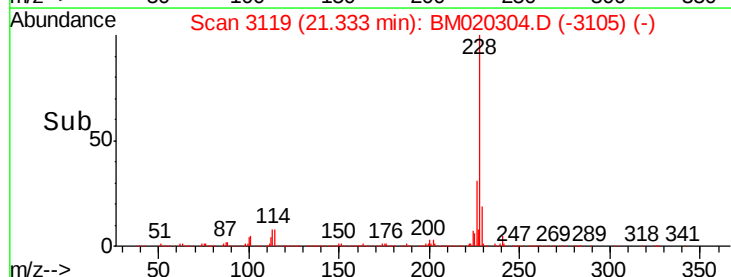
228 100

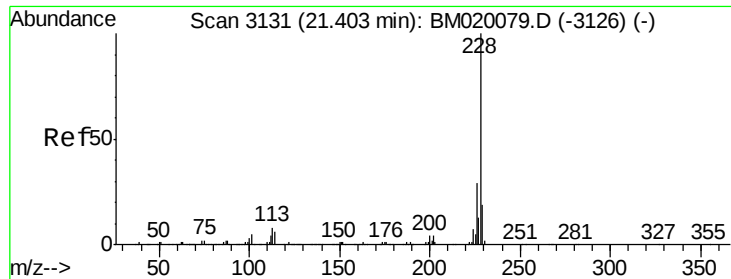
226 31.6 21.3 31.9

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: 41.375 ng

RT: 21.39 min Scan# 3128

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

ClientSampleId :

P026-SS013-1218-01

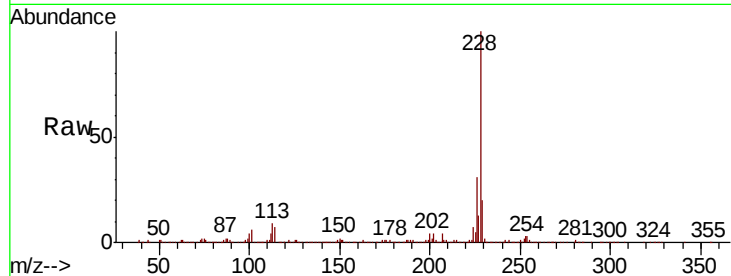
Tgt Ion:228 Resp: 910032

Ion Ratio Lower Upper

228 100

226 30.5 23.0 34.6

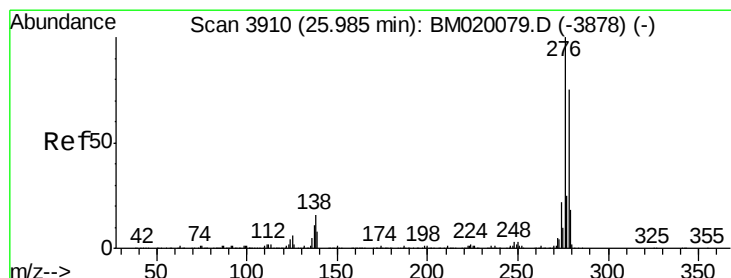
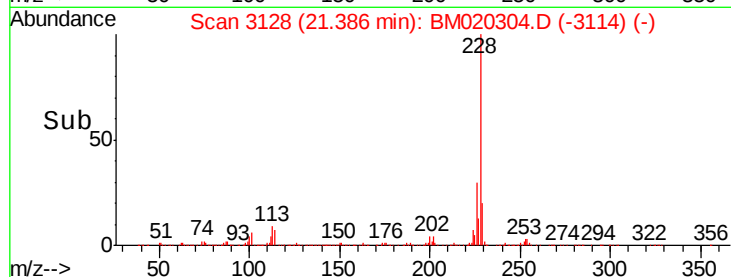
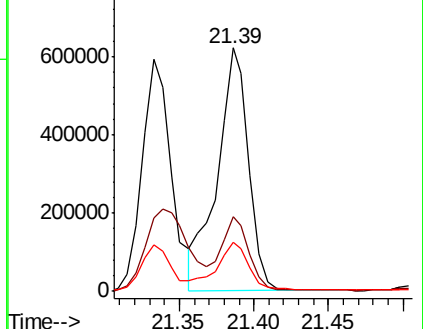
229 20.3 15.5 23.3



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: 22.932 ng

RT: 25.96 min Scan# 3906

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

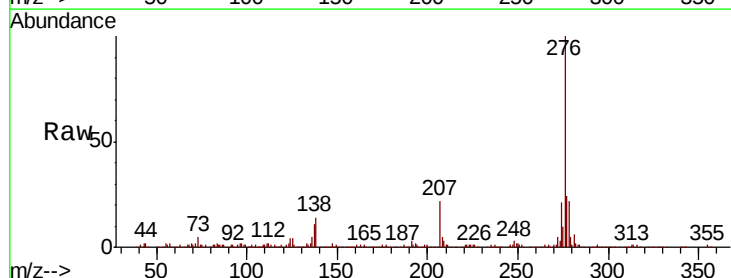
Tgt Ion:276 Resp: 599958

Ion Ratio Lower Upper

276 100

138 14.4 0.0 0.0#

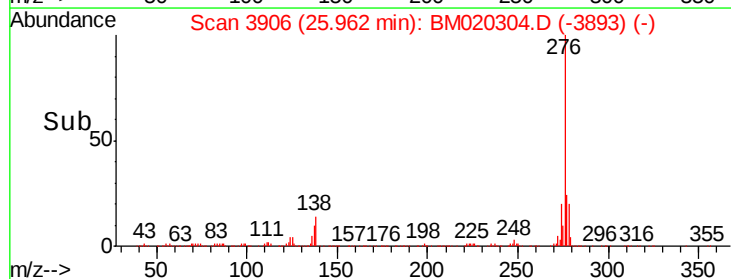
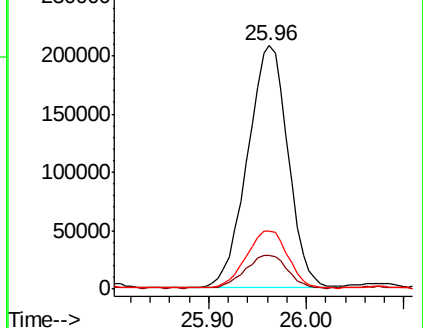
277 24.5 0.0 0.0#

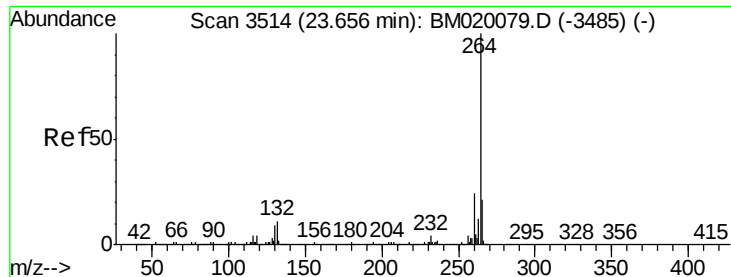


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



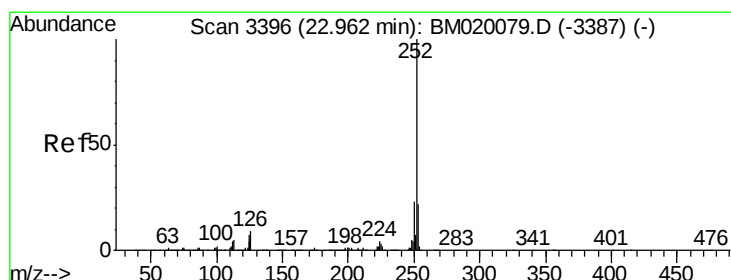
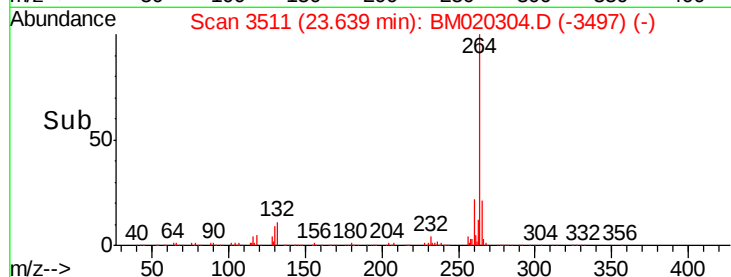
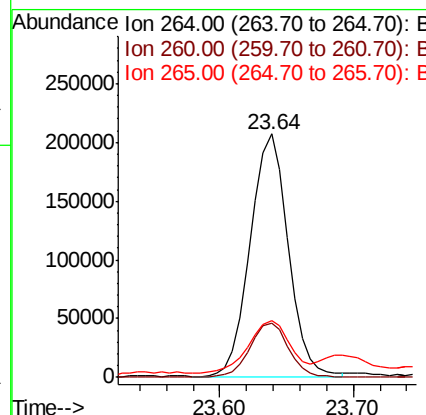
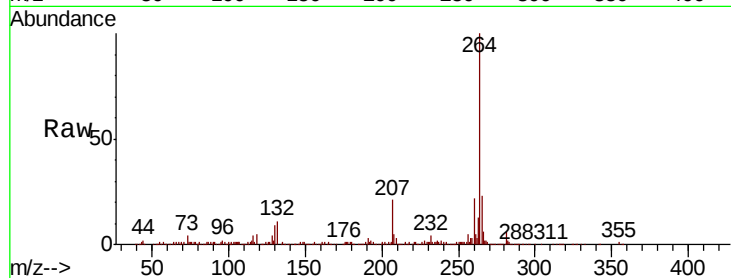


#87
Perylene-d12
Concen: 20.000 ng
RT: 23.64 min Scan# 3511
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tgt Ion: 264 Resp: 406346

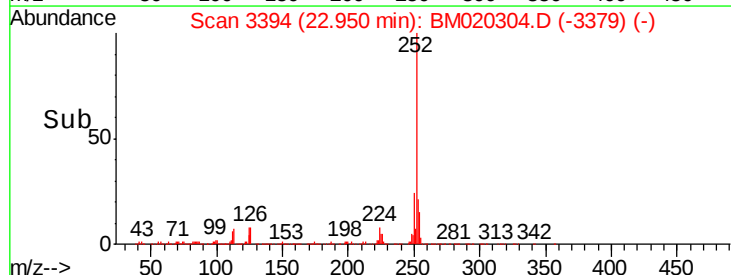
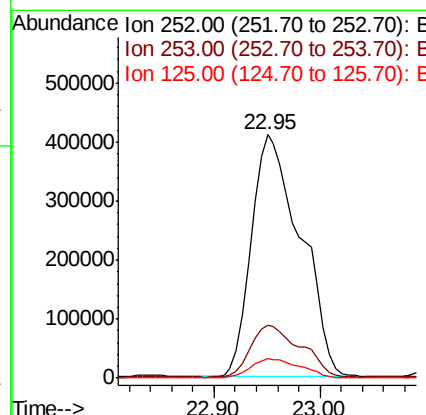
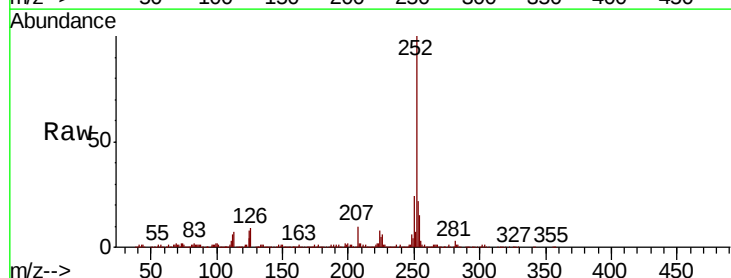
Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.2	28.8
265	23.2	16.9	25.3

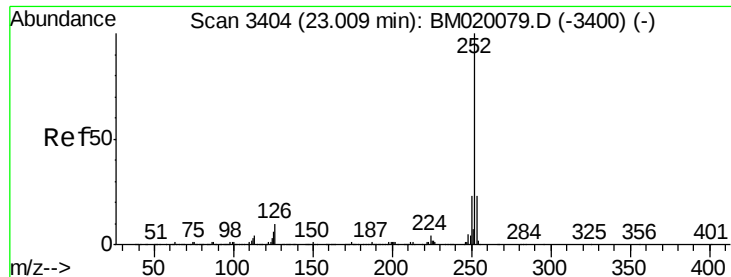


#88
Benzo(b)fluoranthene
Concen: 49.377 ng
RT: 22.95 min Scan# 3394
Delta R.T. -0.01 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion: 252 Resp: 1324921

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	8.1	5.4	8.2





#89

Benzo(k)fluoranthene

Concen: 54.119 ng

RT: 22.95 min Scan# 3394

Delta R.T. -0.06 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

ClientSampleId :

P026-SS013-1218-01

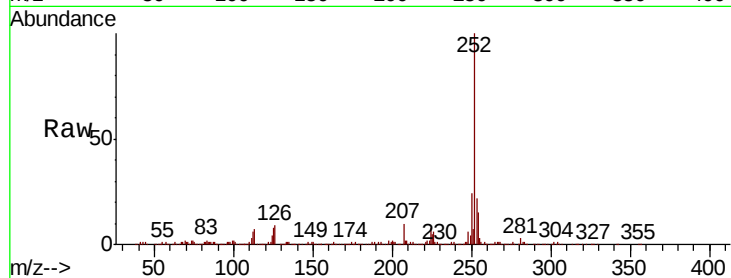
Tgt Ion:252 Resp: 1324653

Ion Ratio Lower Upper

252 100

253 21.6 17.8 26.8

125 8.1 5.4 8.0#

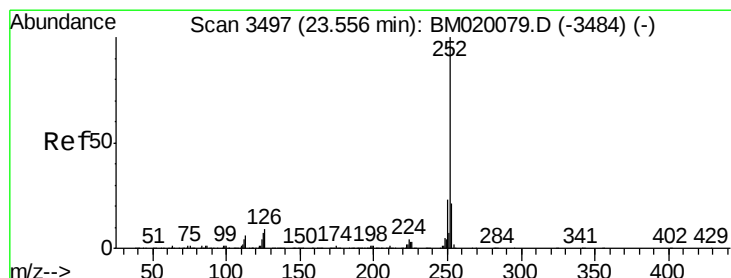
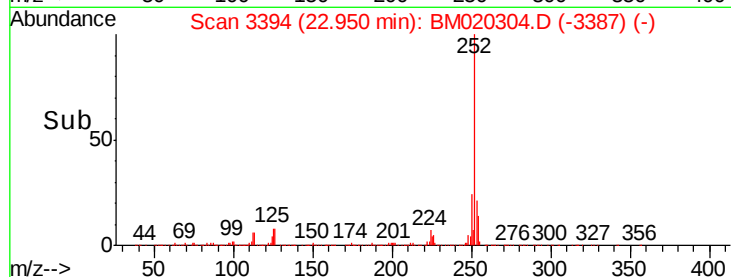
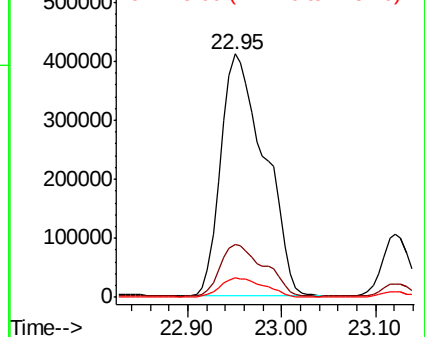


Abundance

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: 29.839 ng

RT: 23.54 min Scan# 3494

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

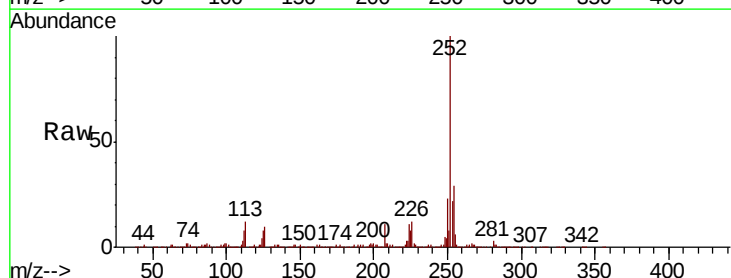
Tgt Ion:252 Resp: 727265

Ion Ratio Lower Upper

252 100

253 22.3 17.0 25.6

125 7.7 5.5 8.3

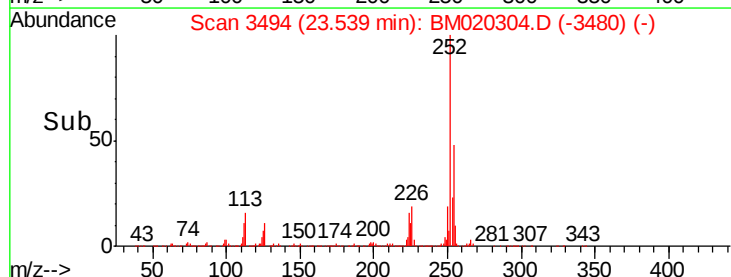
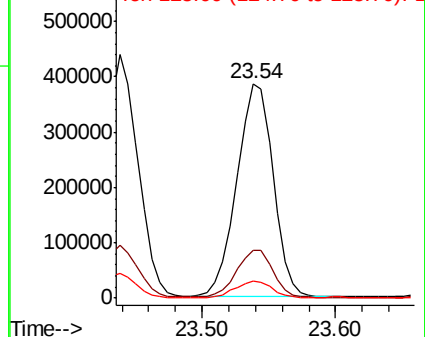


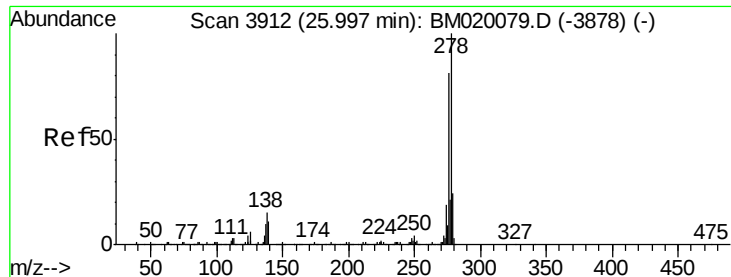
Abundance

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: 6.009 ng

RT: 25.96 min Scan# 3906

Delta R.T. -0.04 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

ClientSampleId :

P026-SS013-1218-01

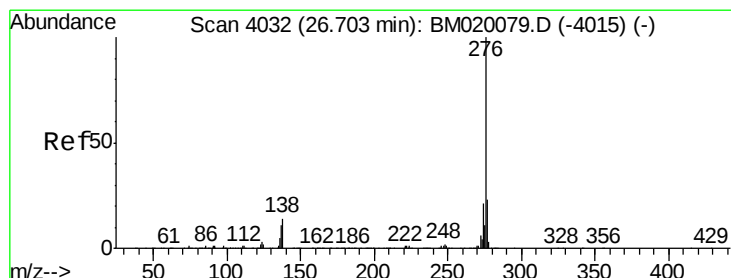
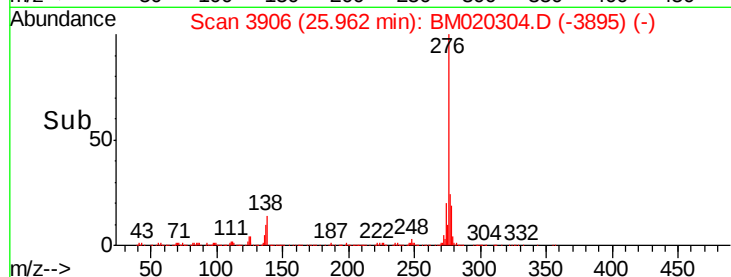
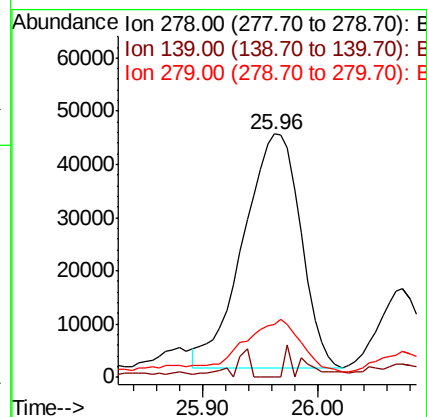
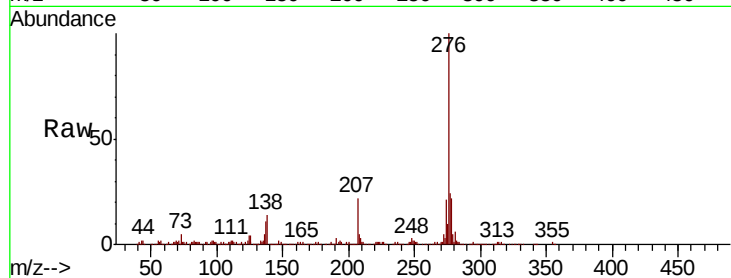
Tgt Ion:278 Resp: 152314

Ion Ratio Lower Upper

278 100

139 0.0 8.6 13.0#

279 21.9 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 30.101 ng

RT: 26.68 min Scan# 4028

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Tgt Ion:276 Resp: 724360

Ion Ratio Lower Upper

276 100

277 24.0 18.4 27.6

138 14.5 11.1 16.7

