

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051219\
 Data File : BM020305.D
 Acq On : 12 May 2019 19:06
 Operator : JU/SJ
 Sample : K2768-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-0612-01

Quant Time: May 13 05:24:03 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	58882	20.00	ng	-0.03
21) Naphthalene-d8	10.56	136	206573	20.00	ng	-0.03
39) Acenaphthene-d10	14.41	164	125043	20.00	ng	-0.02
64) Phenanthrene-d10	17.16	188	285067	20.00	ng	-0.02
76) Chrysene-d12	21.35	240	325248	20.00	ng	-0.02
87) Perylene-d12	23.64	264	414340	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	414266	115.00	ng	-0.02
7) Phenol-d6	6.93	99	552948	112.36	ng	-0.02
23) Nitrobenzene-d5	8.93	82	380918	72.80	ng	-0.03
42) 2,4,6-Tribromophenol	15.90	330	191590	98.71	ng	-0.02
45) 2-Fluorobiphenyl	13.02	172	512369	50.41	ng	-0.04
79) Terphenyl-d14	19.79	244	735104	39.42	ng	-0.02

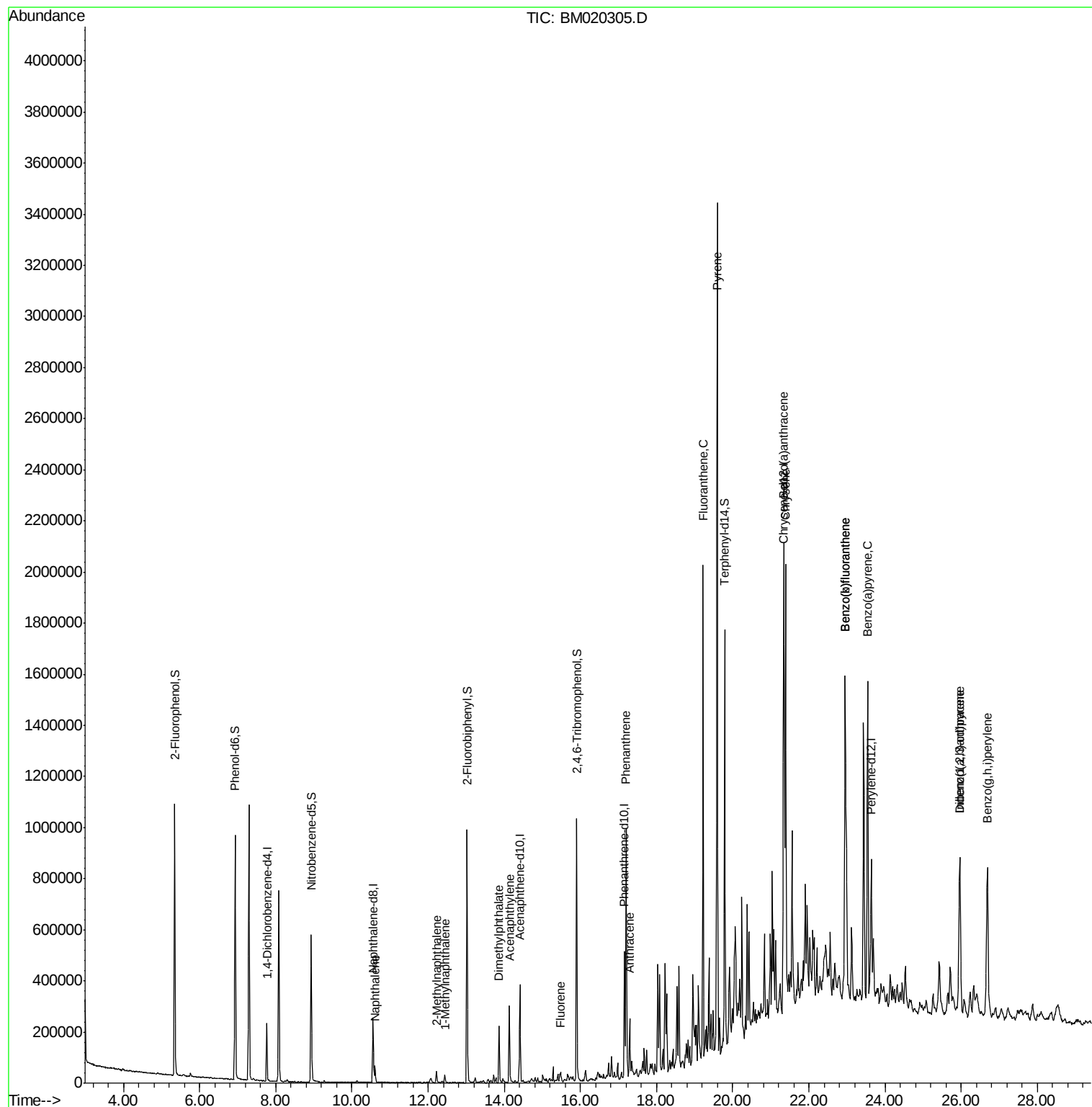
Target Compounds					Qvalue	
31) Naphthalene	10.60	128	51859	4.838	ng	99
37) 2-Methylnaphthalene	12.22	142	23825	3.049	ng	95
38) 1-Methylnaphthalene	12.44	142	16427	2.150	ng	99
49) Acenaphthylene	14.13	152	215454	16.383	ng	100
50) Dimethylphthalate	13.87	163	100667	9.472	ng	98
58) Fluorene	15.48	166	21853	2.092	ng	# 54
71) Phenanthrene	17.20	178	588783	37.416	ng	99
72) Anthracene	17.29	178	150519	9.567	ng	99
75) Fluoranthene	19.22	202	1059538	53.216	ng	99
78) Pyrene	19.59	202	2029936	92.959	ng	99
81) Benzo(a)anthracene	21.33	228	797730	34.973	ng	93
83) Chrysene	21.39	228	978671	44.241	ng	99
86) Indeno(1,2,3-cd)pyrene	25.96	276	636809	24.202	ng	# 100
88) Benzo(b)fluoranthene	22.95	252	1405402	51.366	ng	99
89) Benzo(k)fluoranthene	22.95	252	1407794	56.406	ng	99
90) Benzo(a)pyrene	23.54	252	784191	31.554	ng	99
91) Dibenzo(a,h)anthracene	25.97	278	157314	6.087	ng	# 92
92) Benzo(g,h,i)perylene	26.69	276	760842	31.007	ng	99

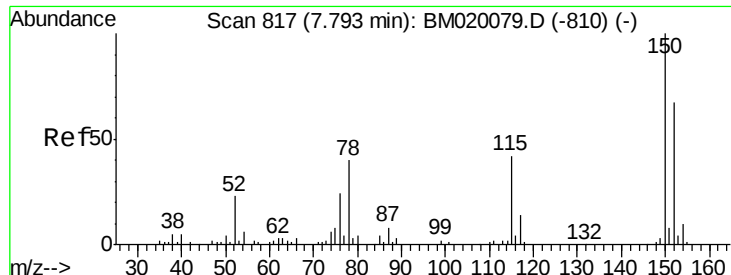
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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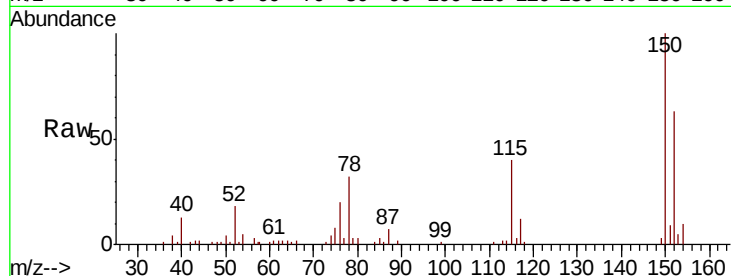




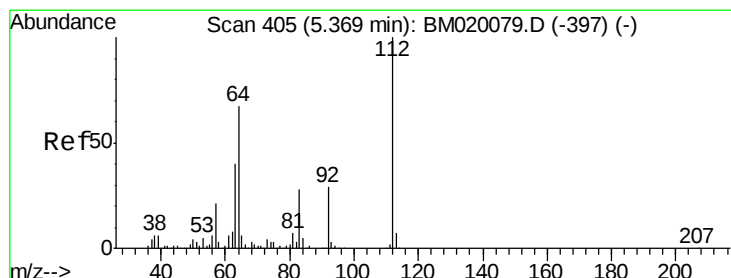
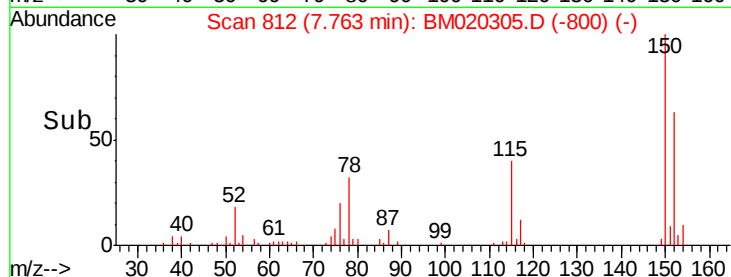
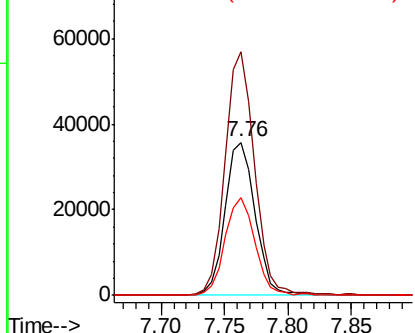
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.76 min Scan# 812
 Delta R.T. -0.03 min
 Lab File: BM020305.D
 Acq: 12 May 2019 19:06

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-0612-01

Tgt Ion:152 Resp: 58882
 Ion Ratio Lower Upper
 152 100
 150 159.0 119.8 179.8
 115 63.5 50.8 76.2

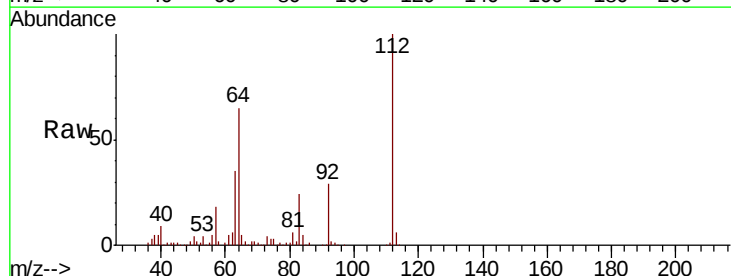


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

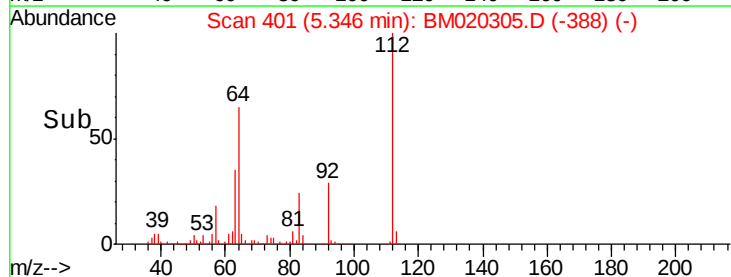
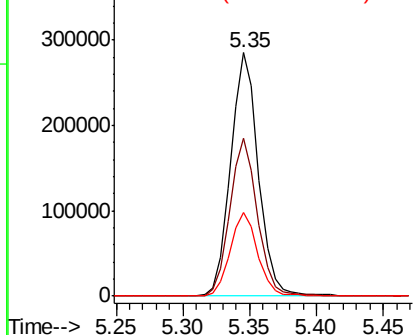


#5
 2-Fluorophenol
 Concen: 115.002 ng
 RT: 5.35 min Scan# 401
 Delta R.T. -0.02 min
 Lab File: BM020305.D
 Acq: 12 May 2019 19:06

Tgt Ion:112 Resp: 414266
 Ion Ratio Lower Upper
 112 100
 64 64.8 53.8 80.6
 63 34.5 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: 112.361 ng

RT: 6.93 min Scan# 670

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

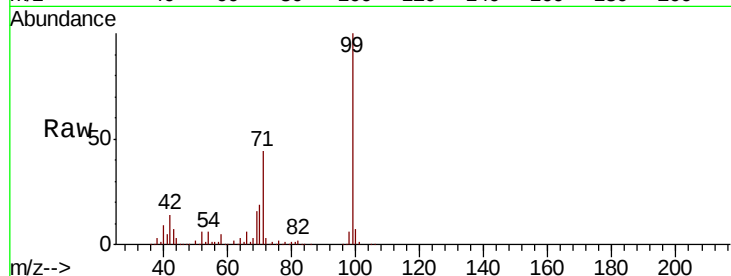
Tgt Ion: 99 Resp: 552948

Ion Ratio Lower Upper

99 100

42 14.2 14.2 21.2

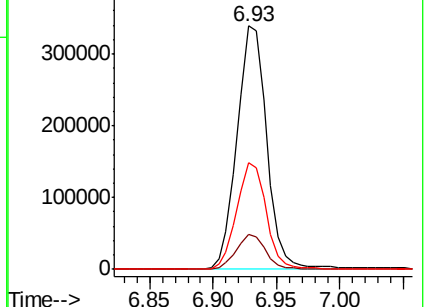
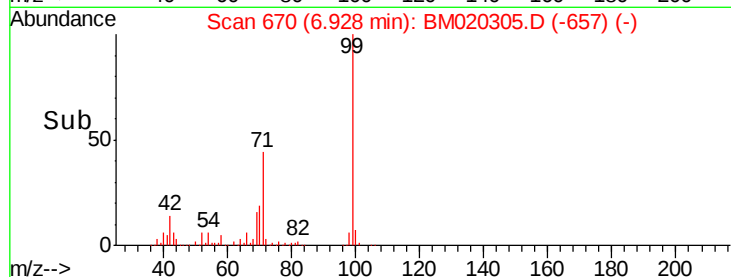
71 43.6 40.3 60.5



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: 10.56 min Scan# 1287

Delta R.T. -0.03 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Tgt Ion: 136 Resp: 206573

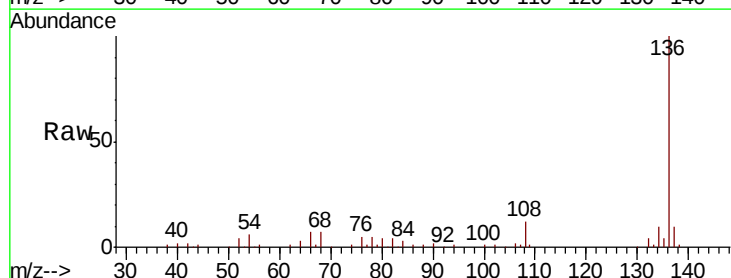
Ion Ratio Lower Upper

136 100

137 9.9 9.6 14.4

54 5.7 5.5 8.3

68 6.5 4.6 6.8

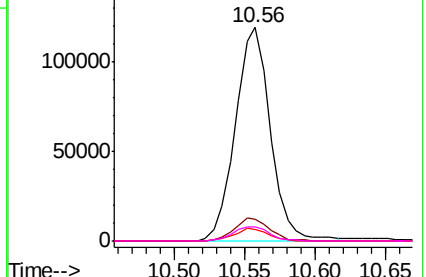
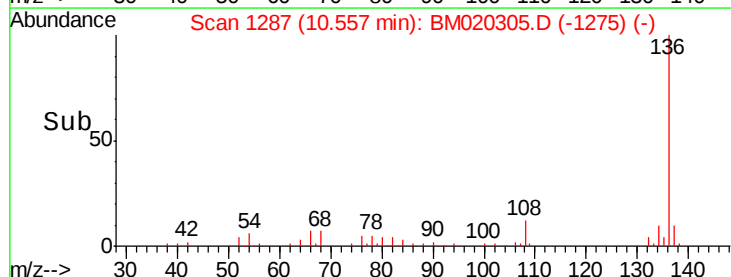


Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

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) (-)

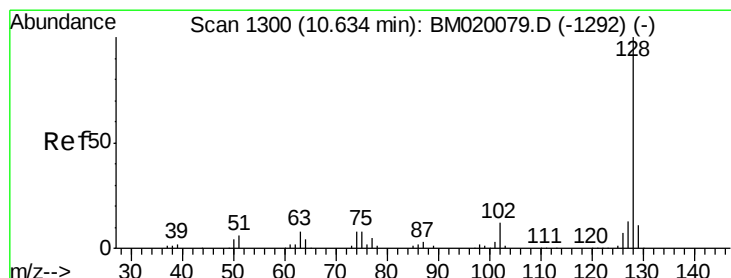
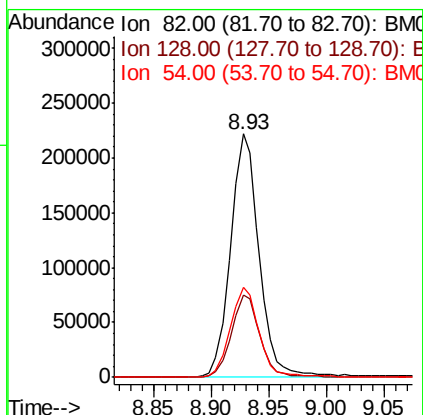
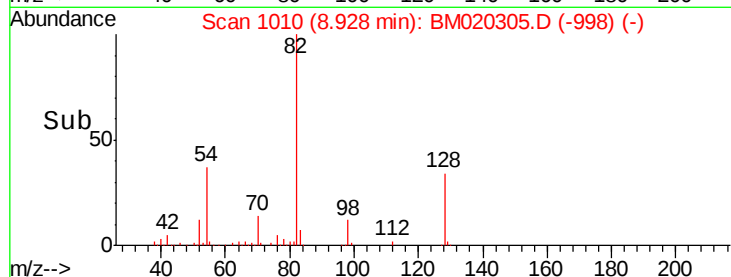
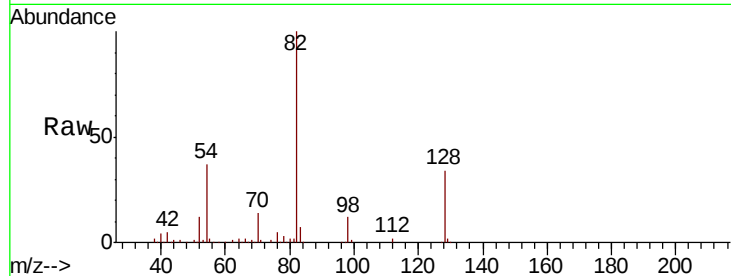




#23
Nitrobenzene-d5
Concen: 72.801 ng
RT: 8.93 min Scan# 1010
Delta R.T. -0.03 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

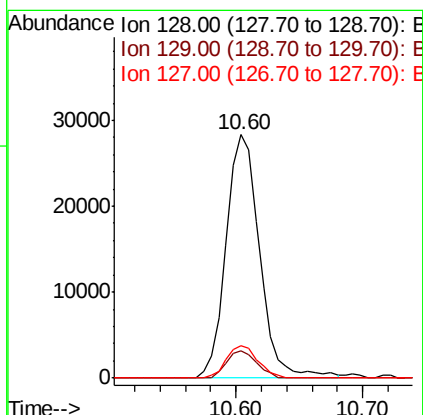
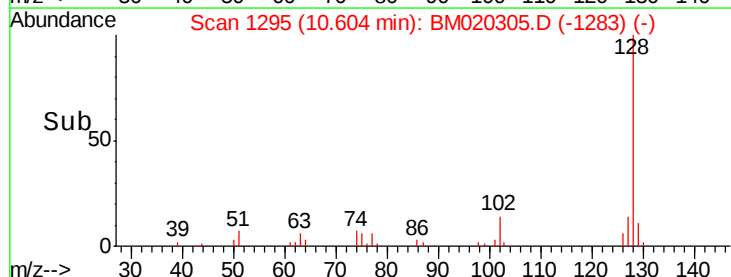
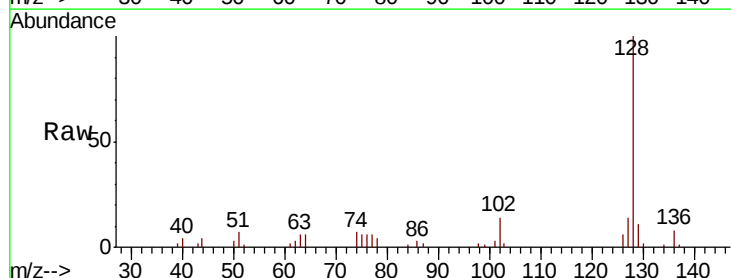
Instrument :
BNA_M
ClientSampleId :
P026-SS013-0612-01

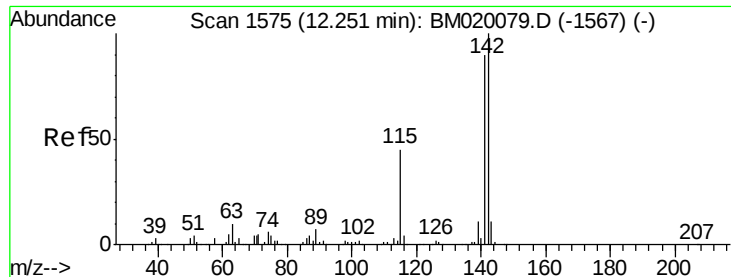
Tgt Ion	Ratio	Lower	Upper
82	100		
128	33.6	25.2	37.8
54	36.7	31.9	47.9



#31
Naphthalene
Concen: 4.838 ng
RT: 10.60 min Scan# 1295
Delta R.T. -0.03 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	13.5	10.4	15.6

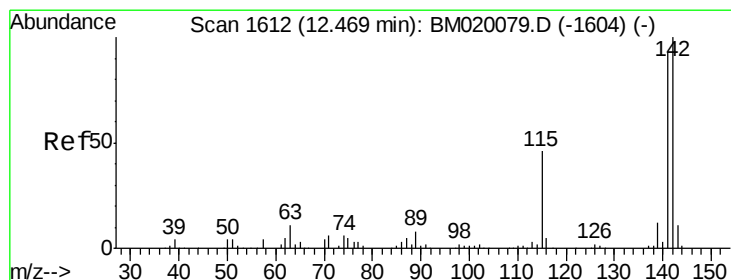
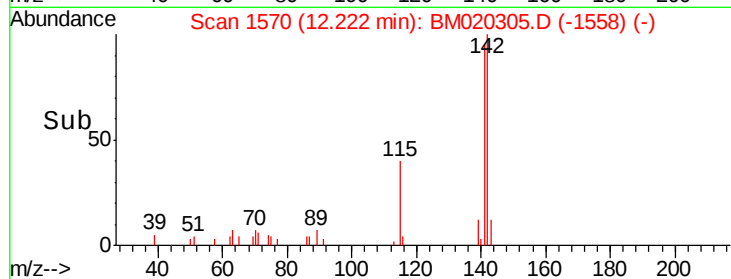
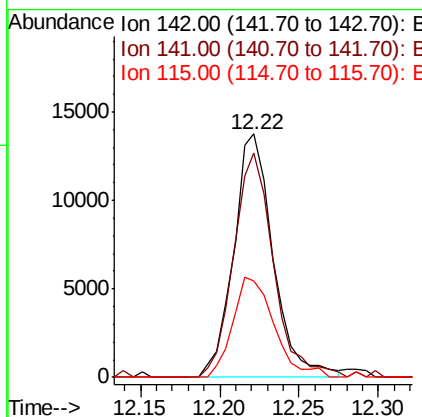
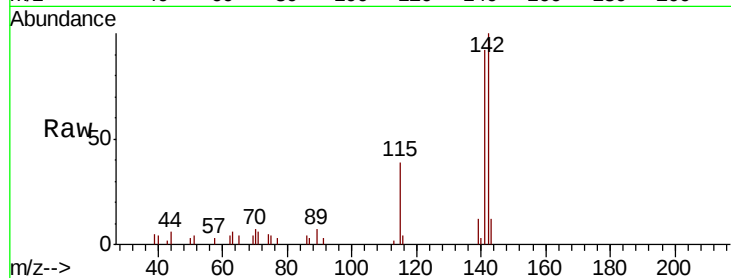




#37
2-Methylnaphthalene
Concen: 3.049 ng
RT: 12.22 min Scan# 1570
Delta R.T. -0.03 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

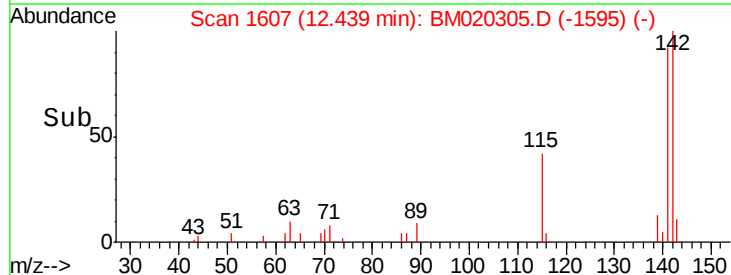
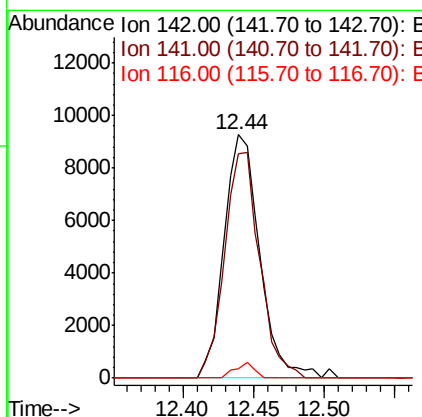
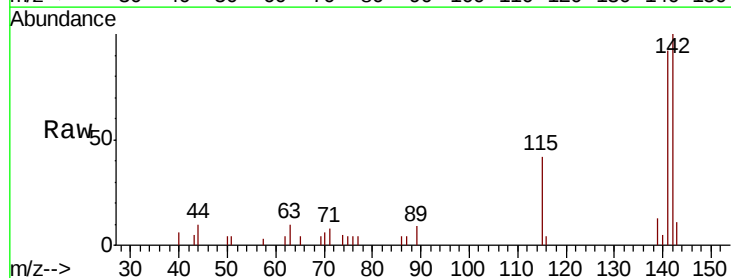
Instrument :
BNA_M
ClientSampleId :
P026-SS013-0612-01

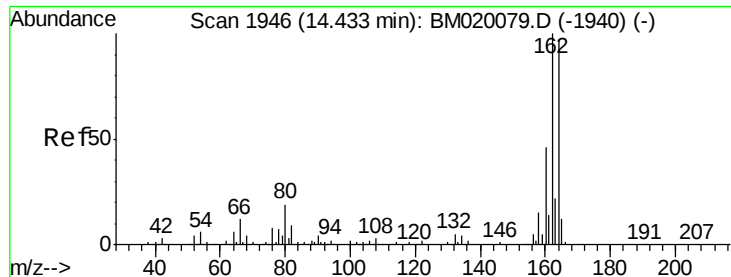
Tgt Ion:142 Resp: 23825
Ion Ratio Lower Upper
142 100
141 92.3 71.6 107.4
115 39.5 35.8 53.6



#38
1-Methylnaphthalene
Concen: 2.150 ng
RT: 12.44 min Scan# 1607
Delta R.T. -0.03 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

Tgt Ion:142 Resp: 16427
Ion Ratio Lower Upper
142 100
141 92.3 74.8 112.2
116 3.9 3.9 5.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.41 min Scan# 1942

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

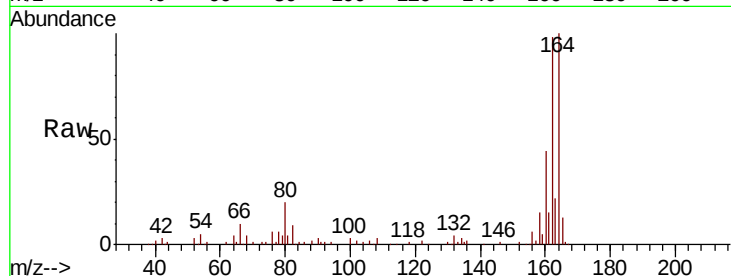
Tgt Ion:164 Resp: 125043

Ion Ratio Lower Upper

164 100

162 98.4 82.2 123.2

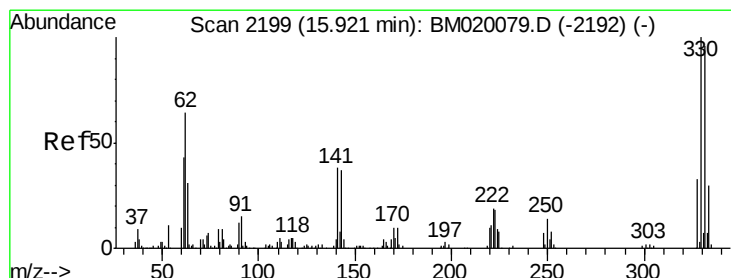
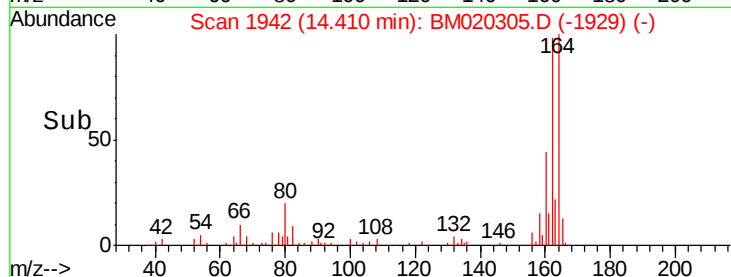
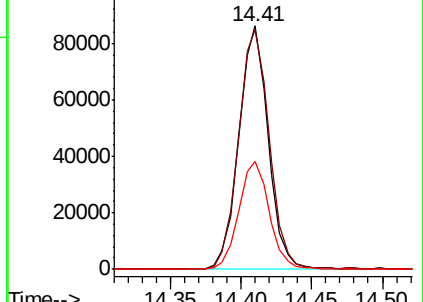
160 44.3 37.6 56.4



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: 98.712 ng

RT: 15.90 min Scan# 2196

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

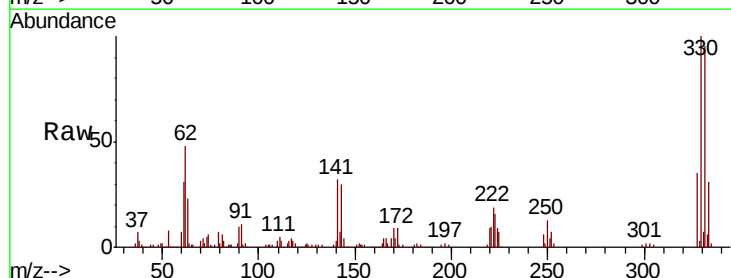
Tgt Ion:330 Resp: 191590

Ion Ratio Lower Upper

330 100

332 95.3 76.8 115.2

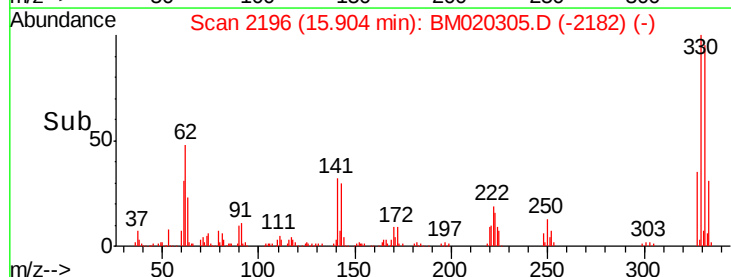
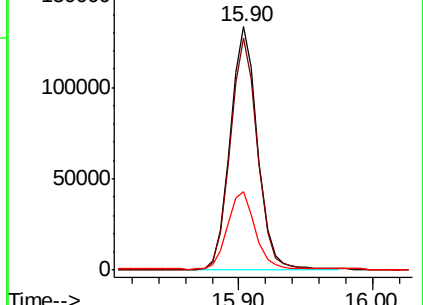
141 32.6 29.2 43.8

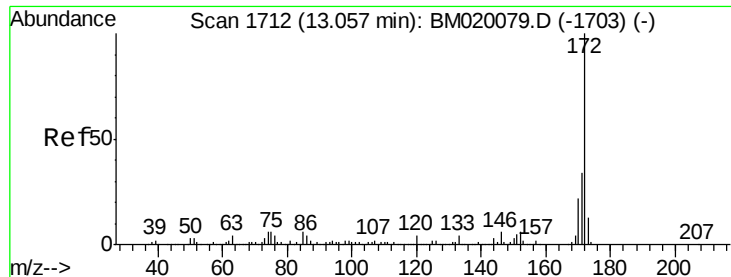


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

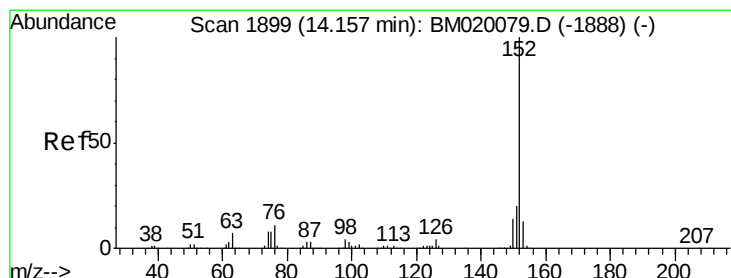
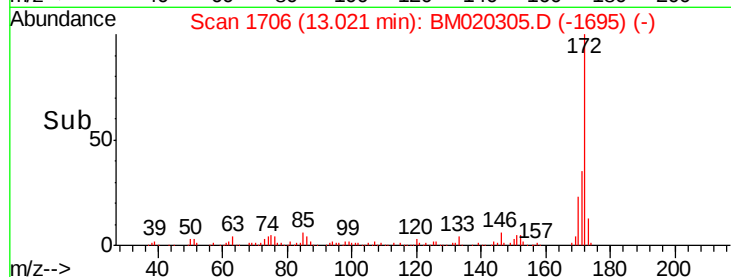
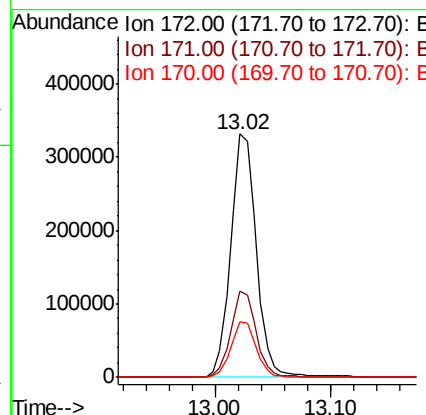
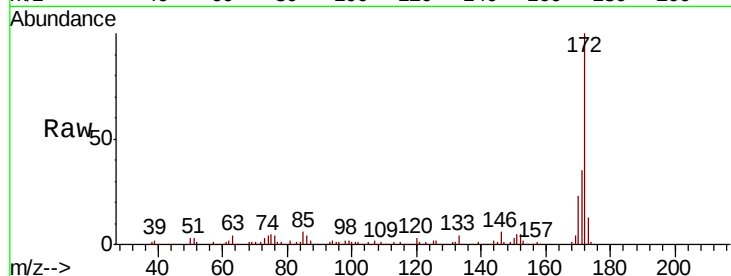




#45
2-Fluorobiphenyl
Concen: 50.415 ng
RT: 13.02 min Scan# 1706
Delta R.T. -0.04 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

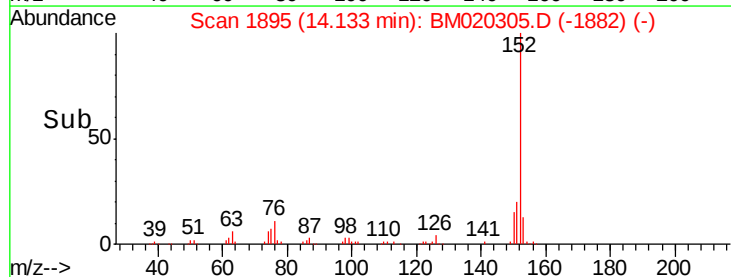
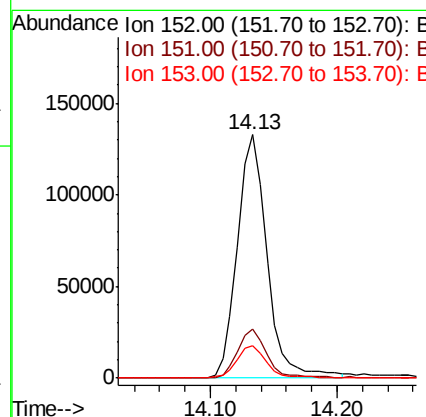
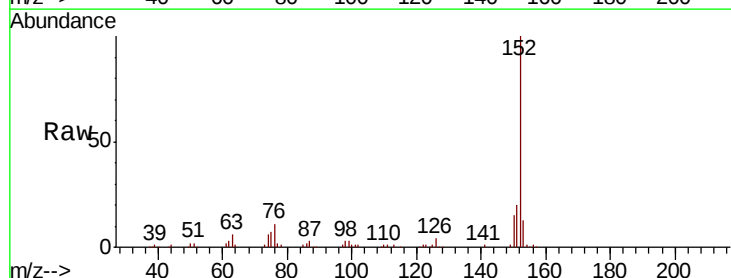
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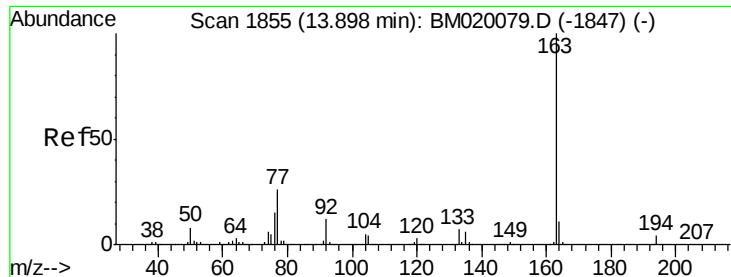
Tgt Ion:172 Resp: 512369
Ion Ratio Lower Upper
172 100
171 35.5 27.3 40.9
170 23.0 17.9 26.9



#49
Acenaphthylene
Concen: 16.383 ng
RT: 14.13 min Scan# 1895
Delta R.T. -0.02 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

Tgt Ion:152 Resp: 215454
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 13.4 10.6 16.0





#50

Dimethylphthalate

Concen: 9.472 ng

RT: 13.87 min Scan# 1850

Delta R.T. -0.03 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

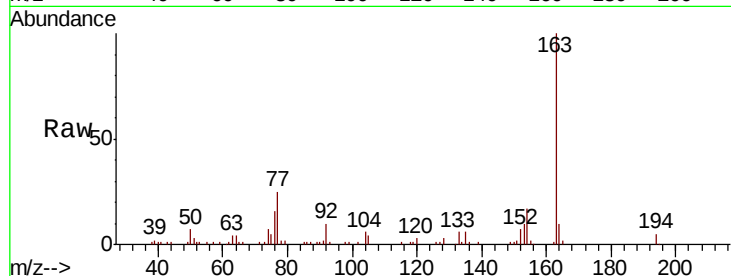
Tgt Ion:163 Resp: 100667

Ion Ratio Lower Upper

163 100

194 4.5 3.6 5.4

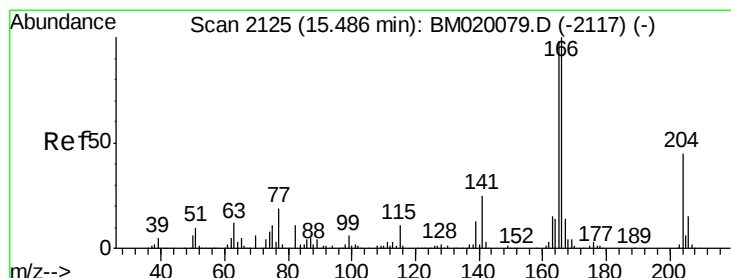
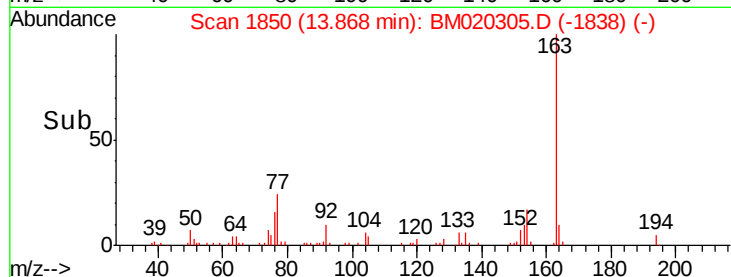
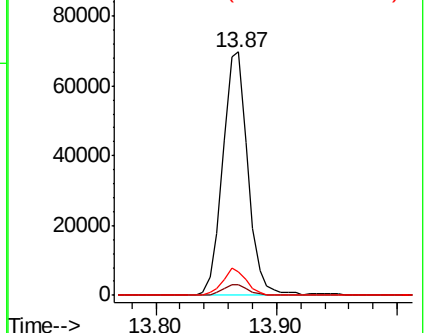
164 9.6 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#58

Fluorene

Concen: 2.092 ng

RT: 15.48 min Scan# 2124

Delta R.T. -0.01 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

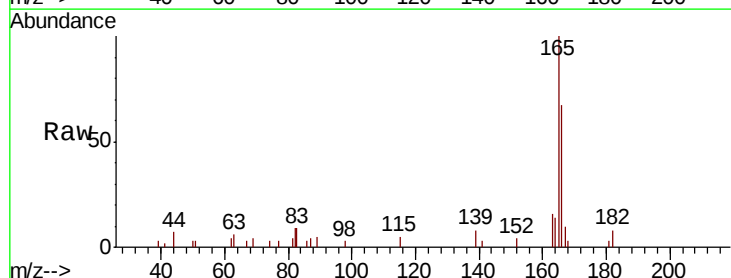
Tgt Ion:166 Resp: 21853

Ion Ratio Lower Upper

166 100

165 149.4 78.2 117.2#

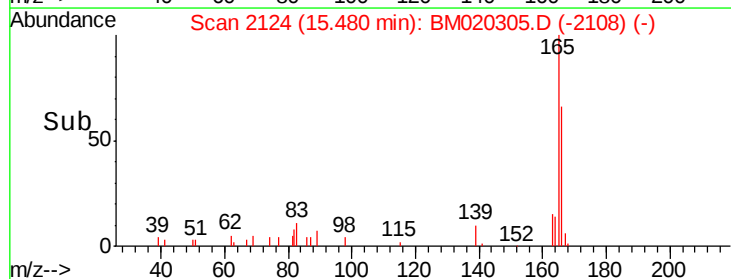
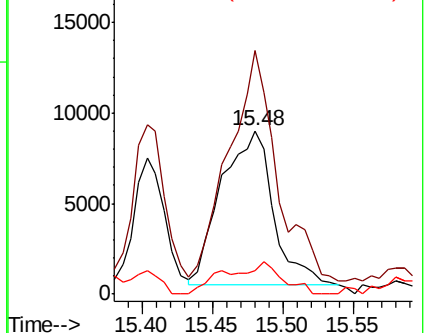
167 14.3 11.0 16.4

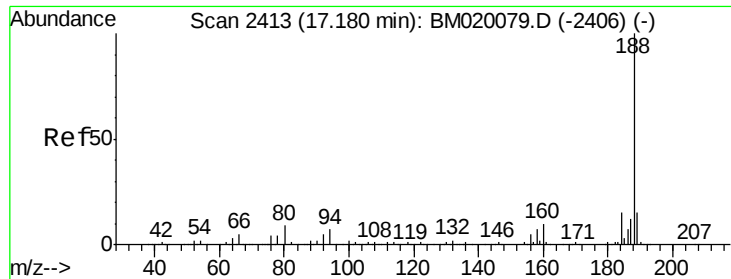


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

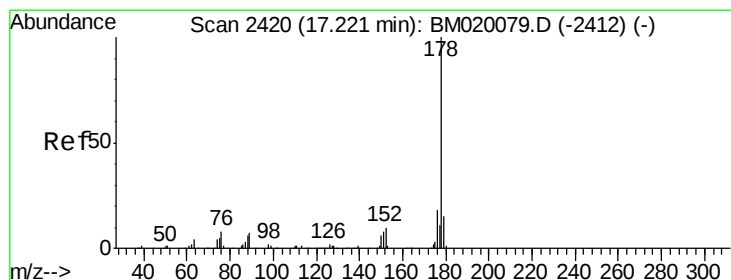
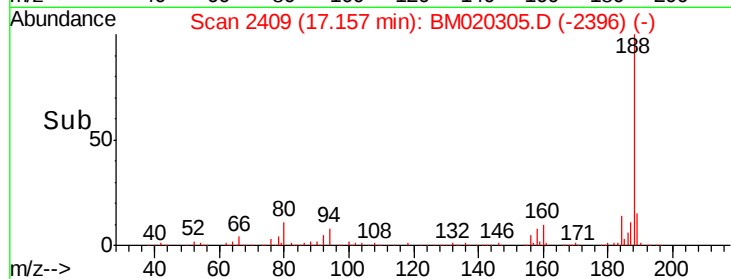
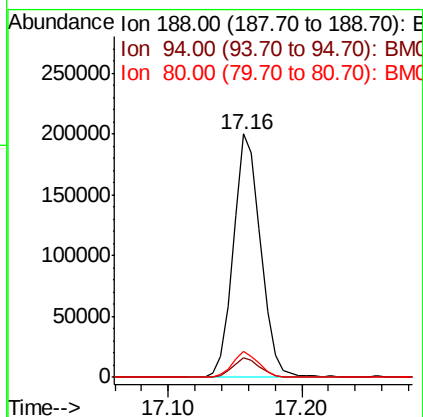
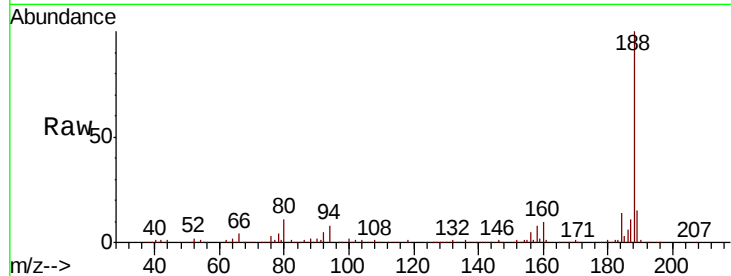




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.16 min Scan# 2409
 Delta R.T. -0.02 min
 Lab File: BM020305.D
 Acq: 12 May 2019 19:06

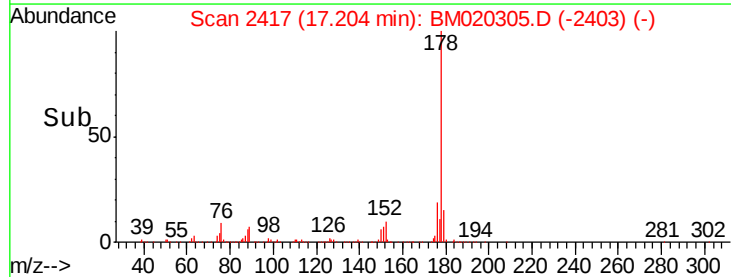
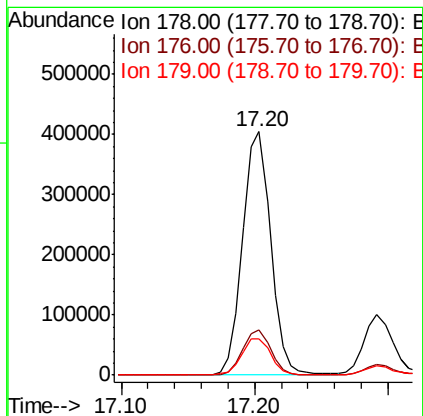
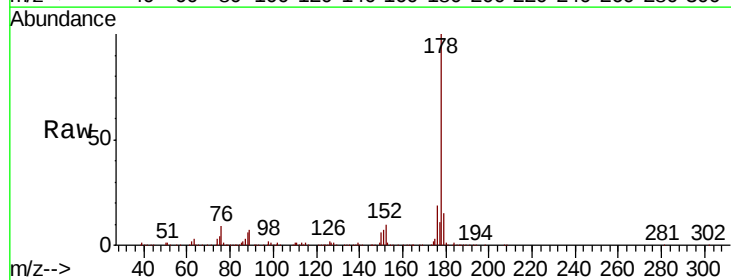
Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-0612-01

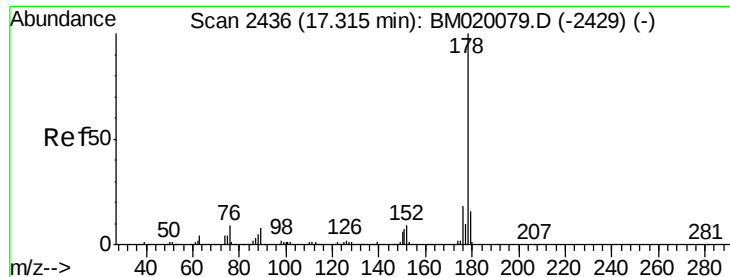
Tgt Ion:188 Resp: 285067
 Ion Ratio Lower Upper
 188 100
 94 8.0 5.8 8.6
 80 10.6 7.4 11.2



#71
 Phenanthrene
 Concen: 37.416 ng
 RT: 17.20 min Scan# 2417
 Delta R.T. -0.02 min
 Lab File: BM020305.D
 Acq: 12 May 2019 19:06

Tgt Ion:178 Resp: 588783
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.6 21.8
 179 15.1 12.4 18.6





#72

Anthracene

Concen: 9.567 ng

RT: 17.29 min Scan# 2432

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

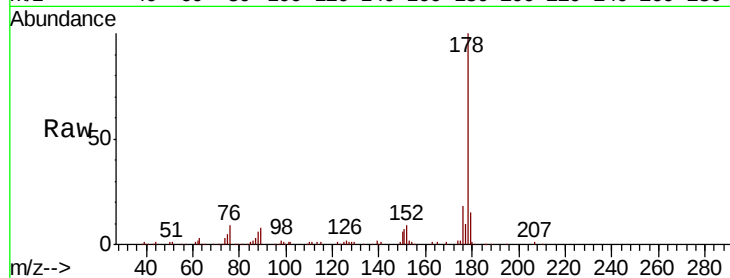
Tgt Ion:178 Resp: 150519

Ion Ratio Lower Upper

178 100

176 17.6 14.6 22.0

179 15.3 12.4 18.6

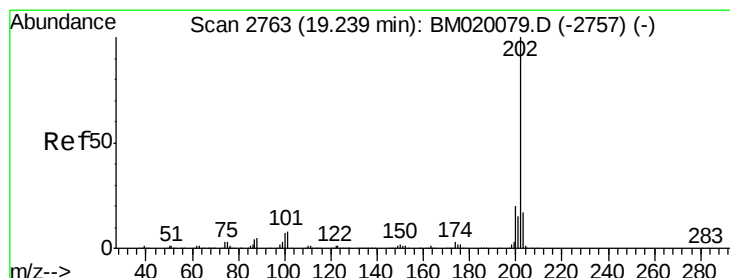
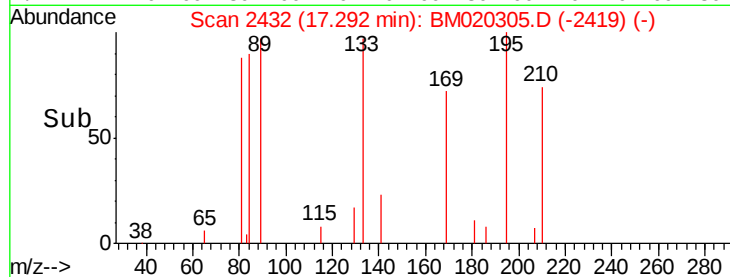
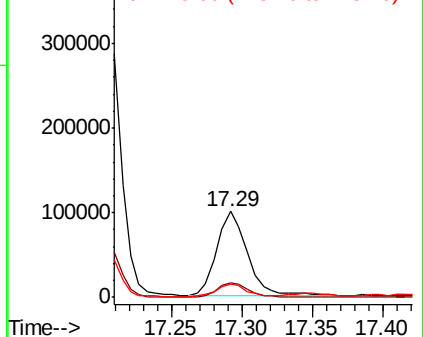


Abundance

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



#75

Fluoranthene

Concen: 53.216 ng

RT: 19.22 min Scan# 2760

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

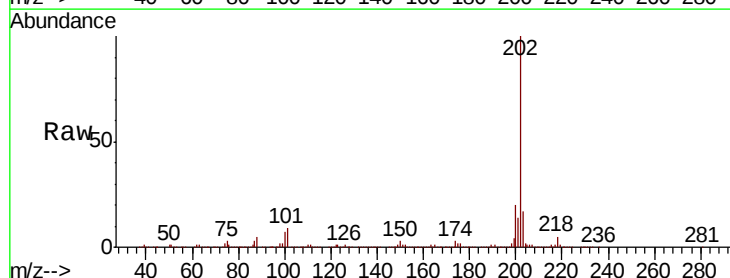
Tgt Ion:202 Resp: 1059538

Ion Ratio Lower Upper

202 100

101 9.1 0.0 28.4

203 17.4 0.0 37.4

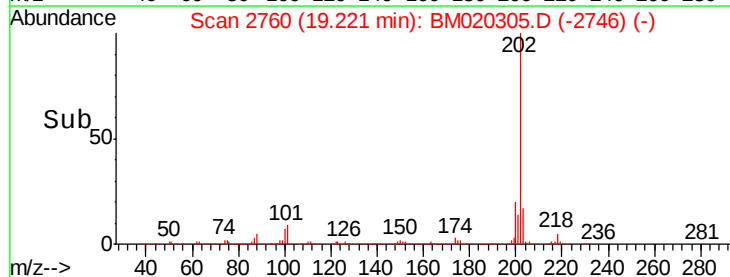
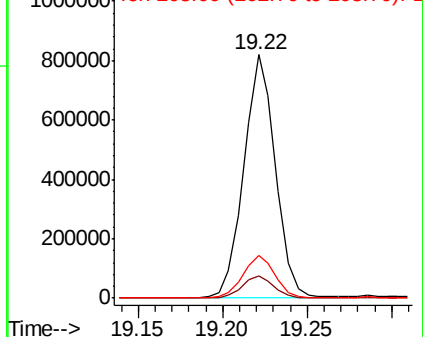


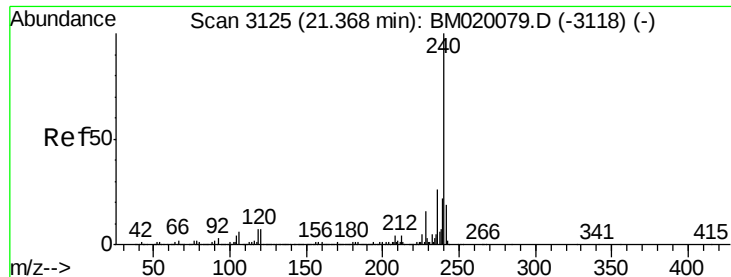
Abundance

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: 21.35 min Scan# 3122

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

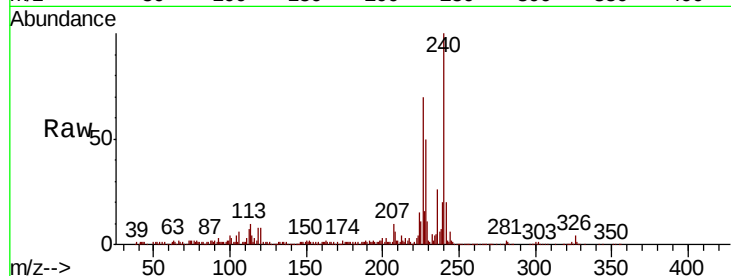
Tgt Ion:240 Resp: 325248

Ion Ratio Lower Upper

240 100

120 7.7 5.6 8.4

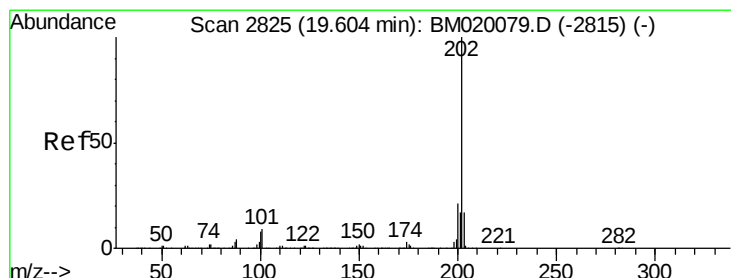
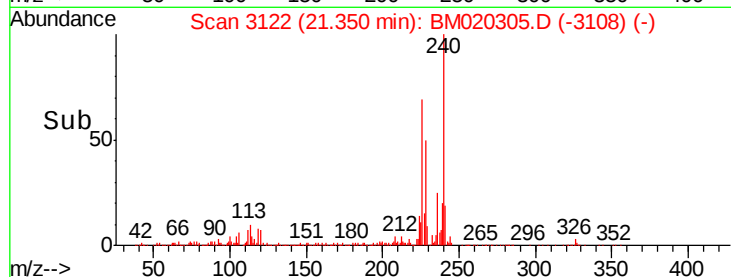
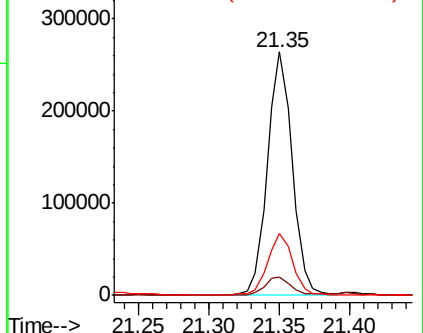
236 25.5 20.9 31.3



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

Pyrene

Concen: 92.959 ng

RT: 19.59 min Scan# 2823

Delta R.T. -0.01 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

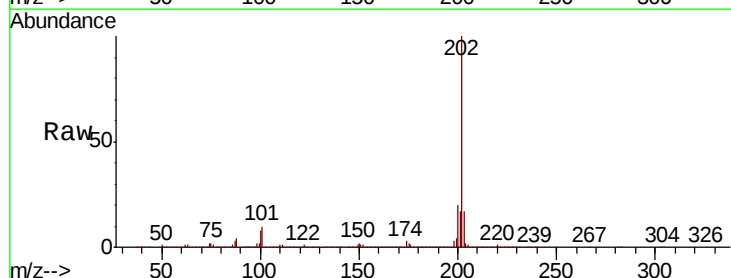
Tgt Ion:202 Resp: 2029936

Ion Ratio Lower Upper

202 100

200 20.1 16.5 24.7

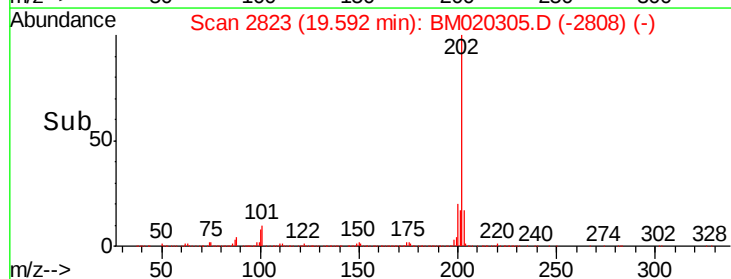
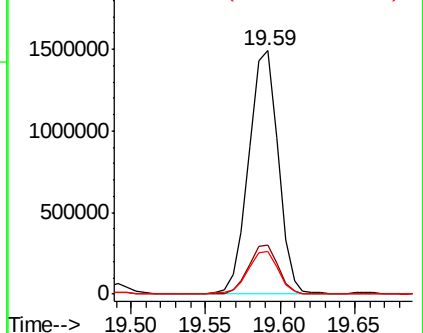
203 17.5 13.9 20.9

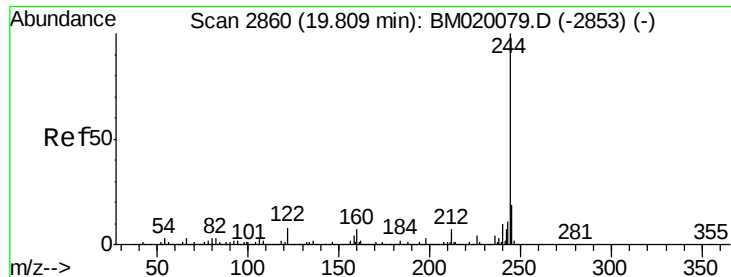


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 39.422 ng

RT: 19.79 min Scan# 2856

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

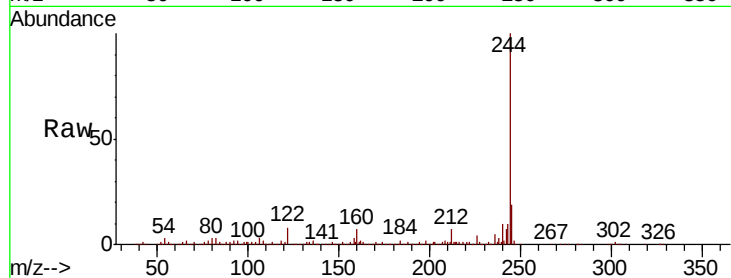
Tgt Ion:244 Resp: 735104

Ion Ratio Lower Upper

244 100

212 6.7 5.7 8.5

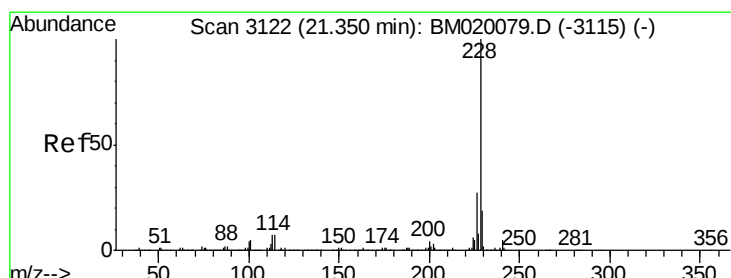
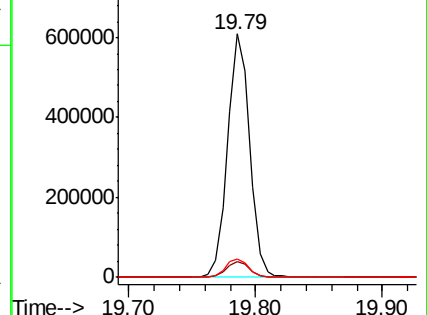
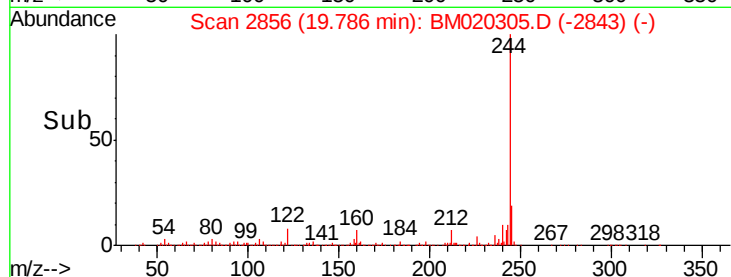
122 7.6 6.2 9.2



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: 34.973 ng

RT: 21.33 min Scan# 3119

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

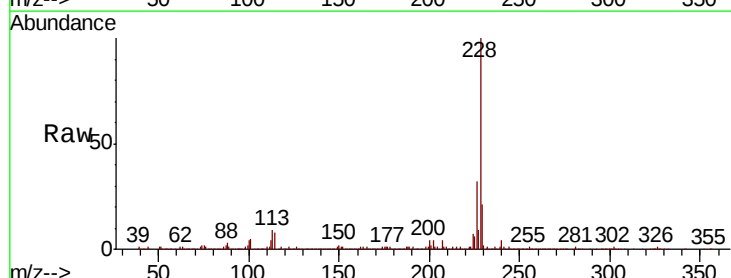
Tgt Ion:228 Resp: 797730

Ion Ratio Lower Upper

228 100

226 31.6 21.3 31.9

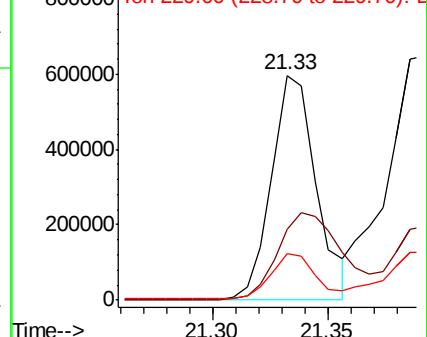
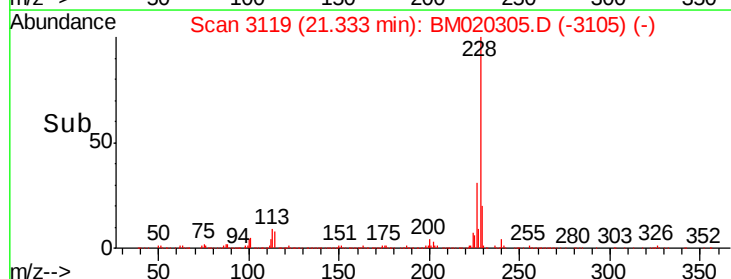
229 20.7 15.5 23.3

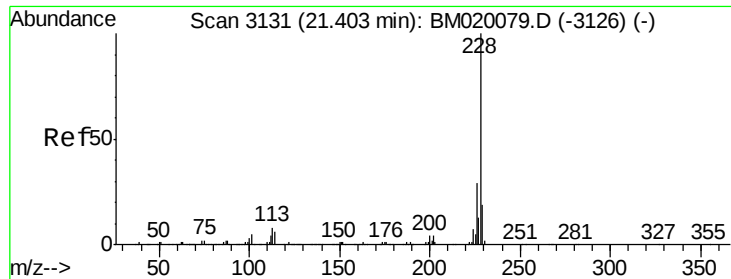


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 44.241 ng

RT: 21.39 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

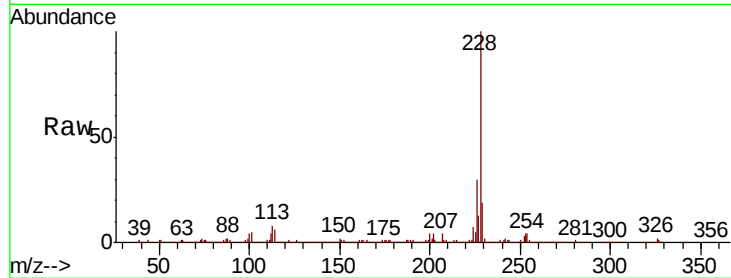
BNA_M

ClientSampleId :

P026-SS013-0612-01

Tgt Ion: 228 Resp: 978671

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.0	34.6
229	19.3	15.5	23.3

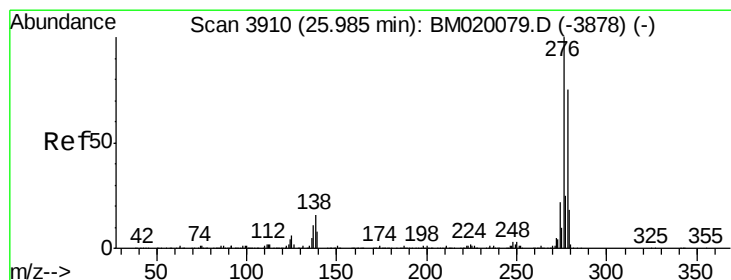
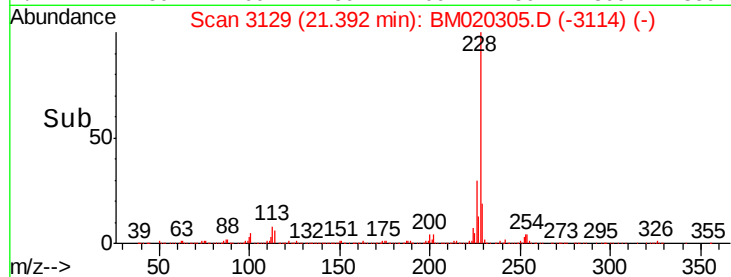
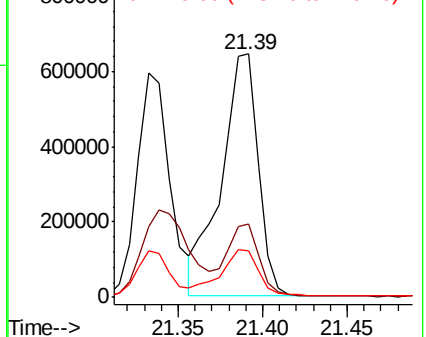


Abundance

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: 24.202 ng

RT: 25.96 min Scan# 3906

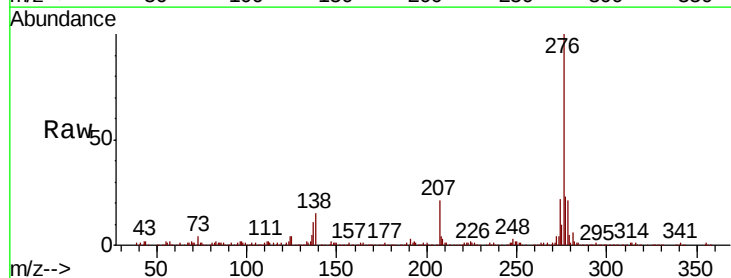
Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Tgt Ion: 276 Resp: 636809

Ion	Ratio	Lower	Upper
276	100		
138	14.7	0.0	0.0#
277	23.7	0.0	0.0#

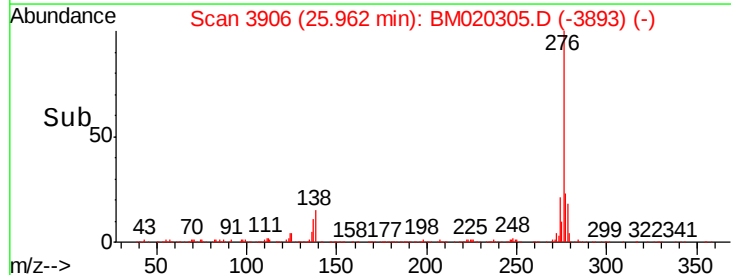
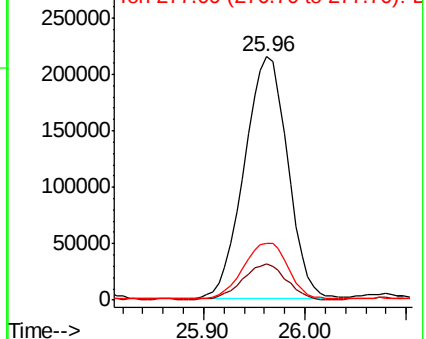


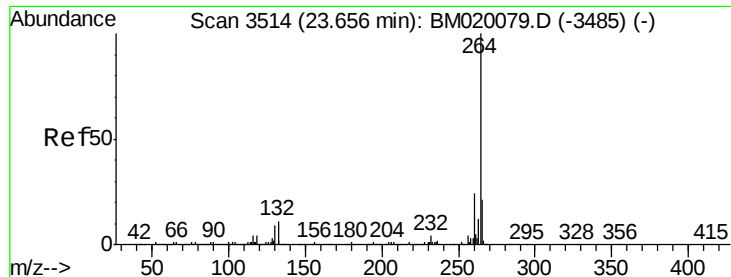
Abundance

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: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

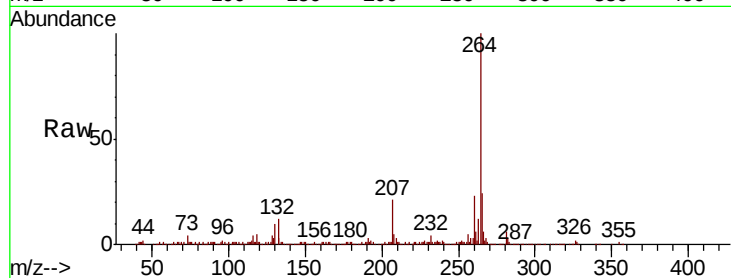
Tgt Ion:264 Resp: 414340

Ion Ratio Lower Upper

264 100

260 23.0 19.2 28.8

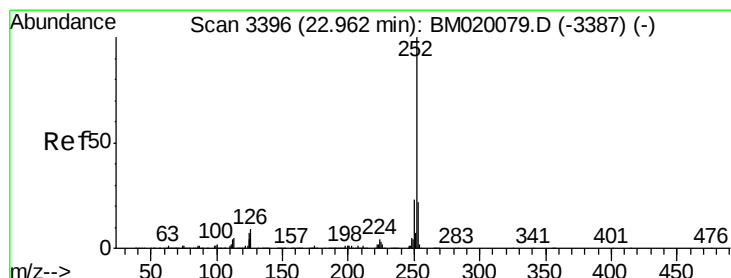
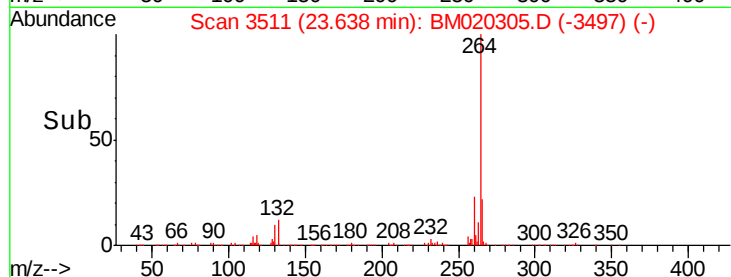
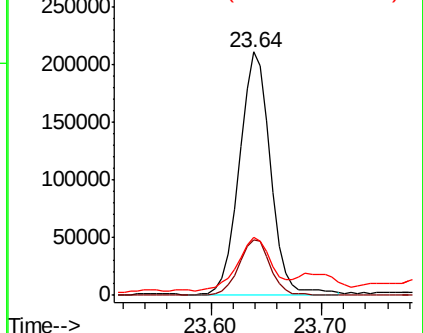
265 23.8 16.9 25.3



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: 51.366 ng

RT: 22.95 min Scan# 3394

Delta R.T. -0.01 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

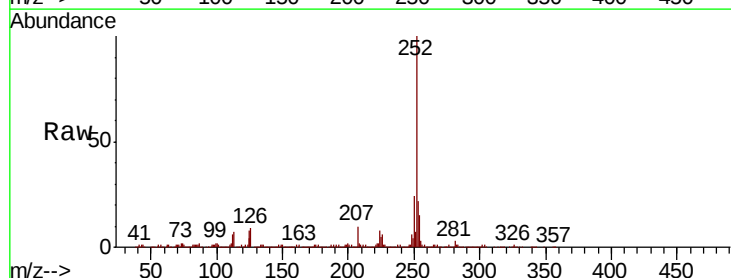
Tgt Ion:252 Resp: 1405402

Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

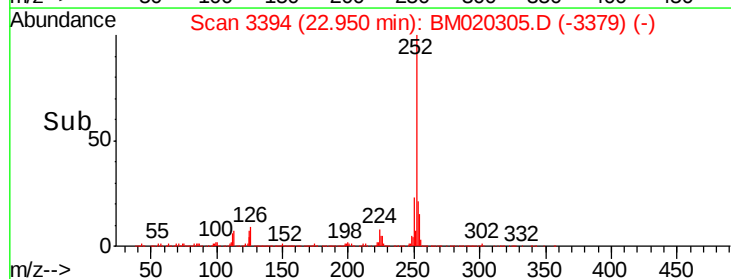
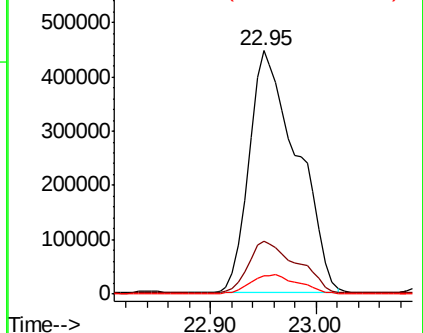
125 7.7 5.4 8.2

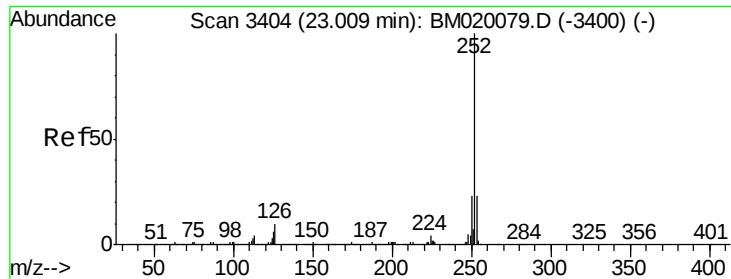


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

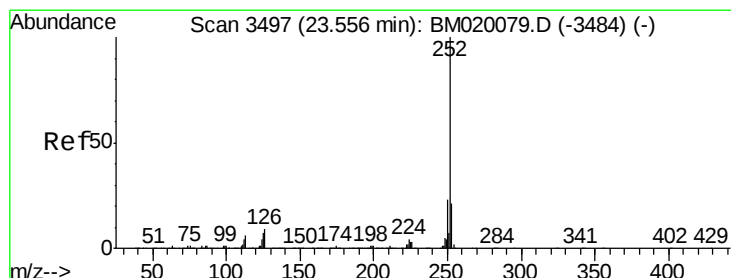
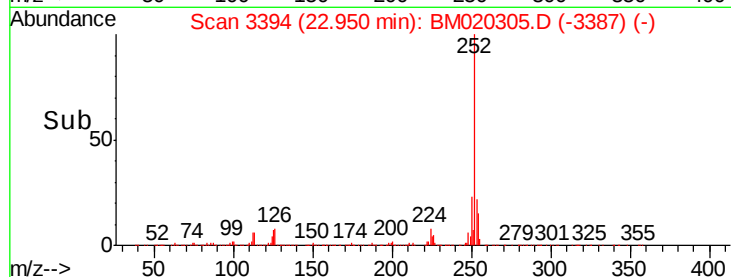
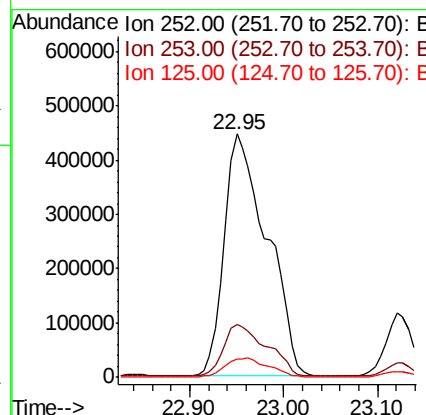
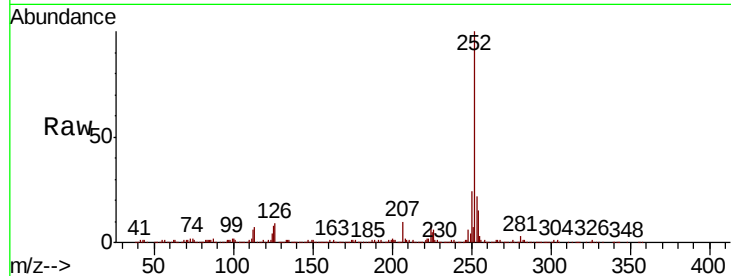




#89
Benzo(k)fluoranthene
Concen: 56.406 ng
RT: 22.95 min Scan# 3394
Delta R.T. -0.06 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

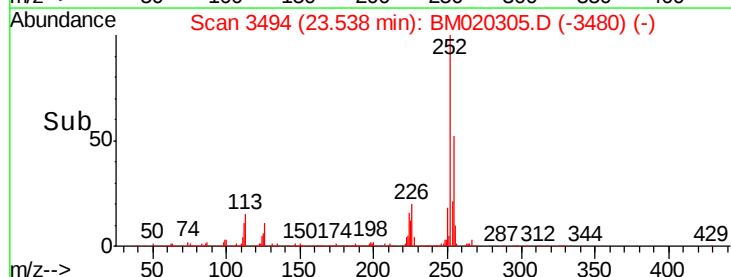
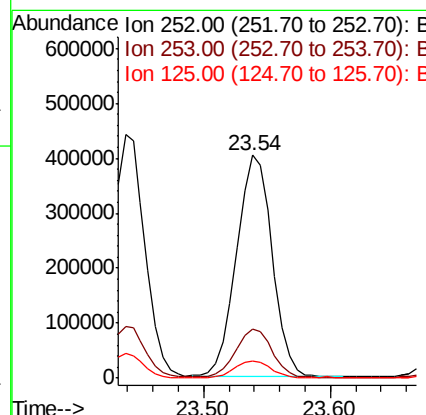
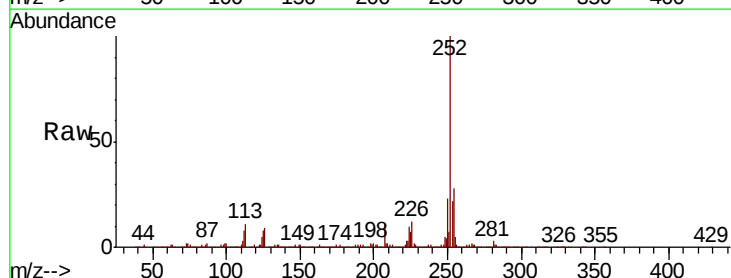
Instrument :
BNA_M
ClientSampleId :
P026-SS013-0612-01

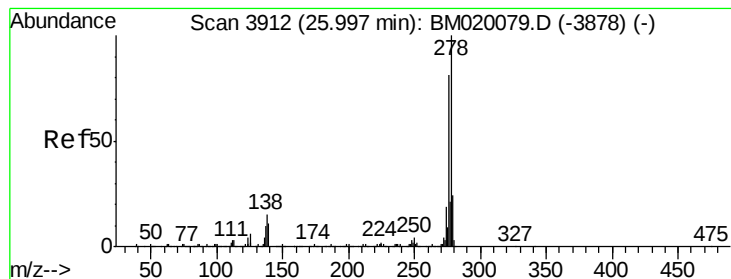
Tgt Ion:252 Resp: 1407794
Ion Ratio Lower Upper
252 100
253 21.9 17.8 26.8
125 7.7 5.4 8.0



#90
Benzo(a)pyrene
Concen: 31.554 ng
RT: 23.54 min Scan# 3494
Delta R.T. -0.02 min
Lab File: BM020305.D
Acq: 12 May 2019 19:06

Tgt Ion:252 Resp: 784191
Ion Ratio Lower Upper
252 100
253 21.8 17.0 25.6
125 7.8 5.5 8.3





#91

Dibenzo(a,h)anthracene

Concen: 6.087 ng

RT: 25.97 min Scan# 3907

Delta R.T. -0.03 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Instrument :

BNA_M

ClientSampleId :

P026-SS013-0612-01

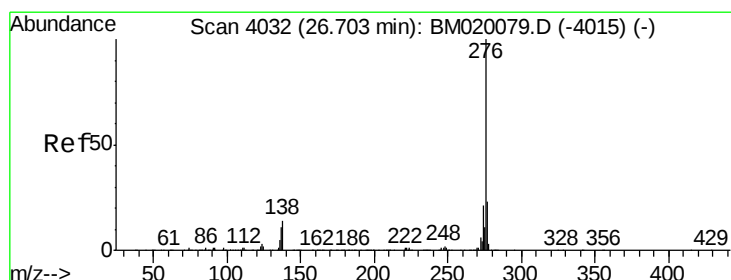
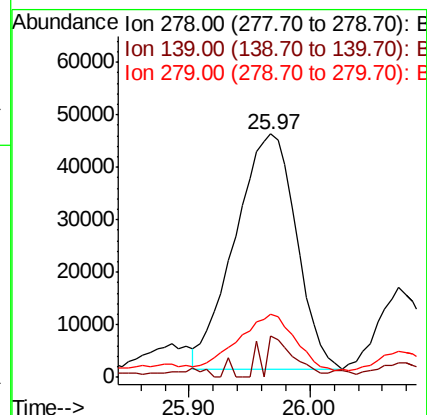
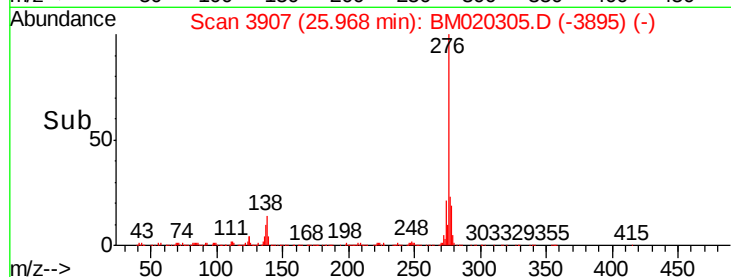
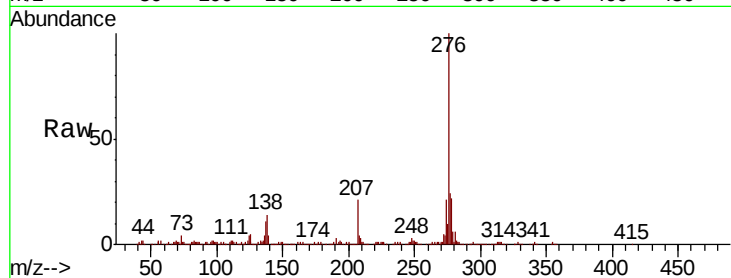
Tgt Ion:278 Resp: 157314

Ion Ratio Lower Upper

278 100

139 16.9 8.6 13.0#

279 25.7 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 31.007 ng

RT: 26.69 min Scan# 4029

Delta R.T. -0.02 min

Lab File: BM020305.D

Acq: 12 May 2019 19:06

Tgt Ion:276 Resp: 760842

Ion Ratio Lower Upper

276 100

277 23.5 18.4 27.6

138 14.7 11.1 16.7

