

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051219\
 Data File : BM020306.D
 Acq On : 12 May 2019 19:42
 Operator : JU/SJ
 Sample : K2766-18
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS009-0002-01

Quant Time: May 13 05:24:16 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	62597	20.00	ng	-0.03
21) Naphthalene-d8	10.56	136	207315	20.00	ng	-0.03
39) Acenaphthene-d10	14.41	164	128407	20.00	ng	-0.02
64) Phenanthrene-d10	17.16	188	323757	20.00	ng	-0.02
76) Chrysene-d12	21.36	240	392877	20.00	ng	-0.01
87) Perylene-d12	23.64	264	485317	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	475108	124.06	ng	-0.02
7) Phenol-d6	6.93	99	650179	124.28	ng	-0.02
23) Nitrobenzene-d5	8.93	82	439208	83.64	ng	-0.03
42) 2,4,6-Tribromophenol	15.90	330	252179	126.52	ng	-0.02
45) 2-Fluorobiphenyl	13.03	172	701780	67.24	ng	-0.03
79) Terphenyl-d14	19.79	244	1196953	53.14	ng	-0.02

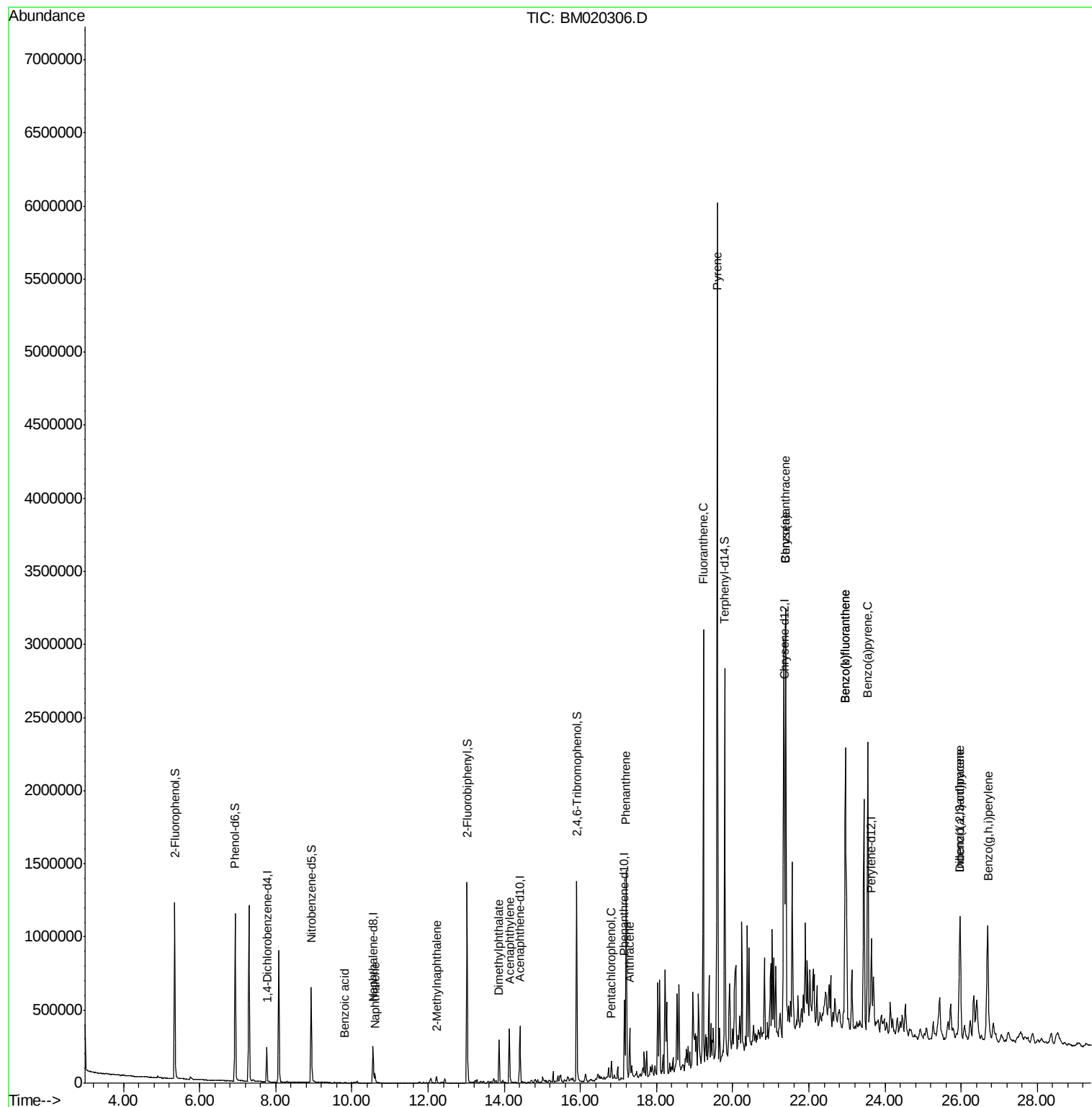
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.60	128	47148	4.382	ng	99
32) Benzoic acid	9.80	122	106	6.658	ng	# 36
37) 2-Methylnaphthalene	12.22	142	21090	2.689	ng	95
49) Acenaphthylene	14.13	152	271369	20.094	ng	99
50) Dimethylphthalate	13.87	163	138078	12.652	ng	100
70) Pentachlorophenol	16.80	266	6434	2.461	ng	95
71) Phenanthrene	17.20	178	849599	47.539	ng	99
72) Anthracene	17.29	178	220038	12.314	ng	99
75) Fluoranthene	19.23	202	1725684	76.317	ng	99
78) Pyrene	19.59	202	3567691	135.256	ng	99
81) Benzo(a)anthracene	21.39	228	1437747	52.182	ng	96
83) Chrysene	21.39	228	1478837	55.343	ng	98
86) Indeno(1,2,3-cd)pyrene	25.97	276	871194	27.410	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	2044045	63.781	ng	# 99
89) Benzo(k)fluoranthene	22.96	252	2043588	69.906	ng	# 98
90) Benzo(a)pyrene	23.54	252	1154259	39.652	ng	98
91) Dibenzo(a,h)anthracene	25.97	278	223730	7.390	ng	# 96
92) Benzo(g,h,i)perylene	26.70	276	1032644	35.929	ng	99

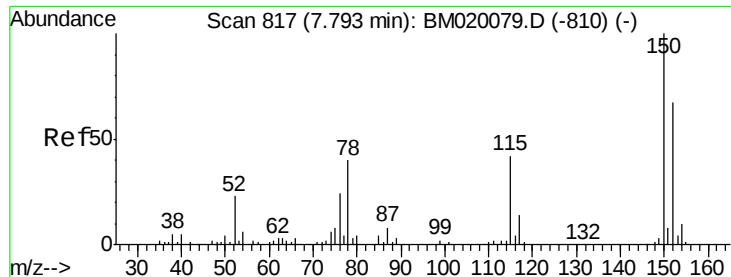
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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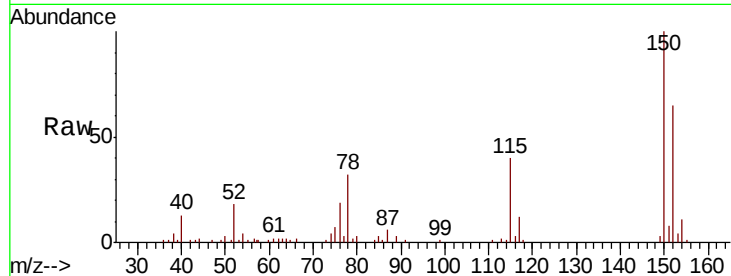


#1

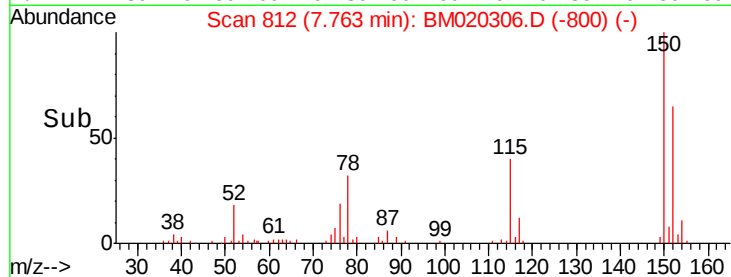
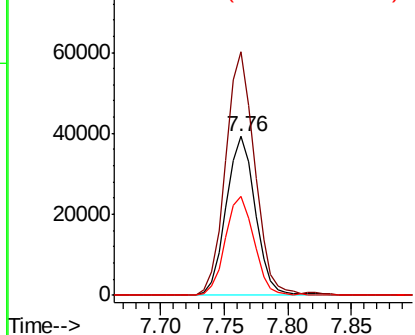
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.76 min Scan# 812
 Delta R.T. -0.03 min
 Lab File: BM020306.D
 Acq: 12 May 2019 19:42

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS009-0002-01

Tgt Ion:152 Resp: 62597
 Ion Ratio Lower Upper
 152 100
 150 153.4 119.8 179.8
 115 62.0 50.8 76.2



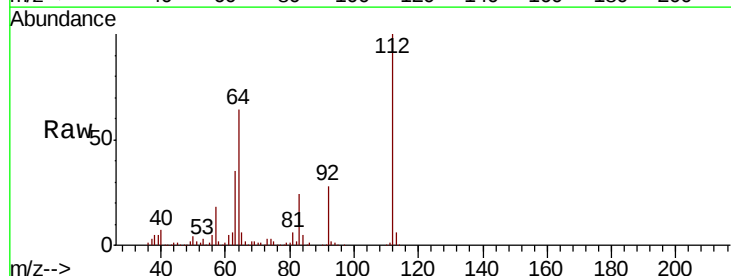
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



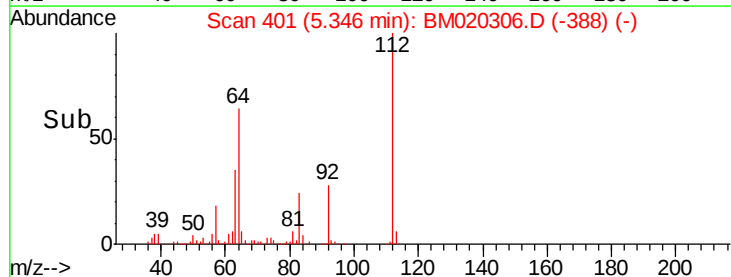
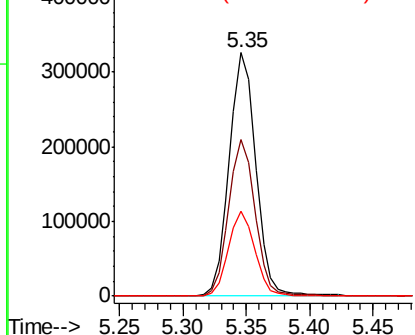
#5

2-Fluorophenol
 Concen: 124.065 ng
 RT: 5.35 min Scan# 401
 Delta R.T. -0.02 min
 Lab File: BM020306.D
 Acq: 12 May 2019 19:42

Tgt Ion:112 Resp: 475108
 Ion Ratio Lower Upper
 112 100
 64 64.4 53.8 80.6
 63 35.0 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: 124.278 ng

RT: 6.93 min Scan# 671

Delta R.T. -0.02 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

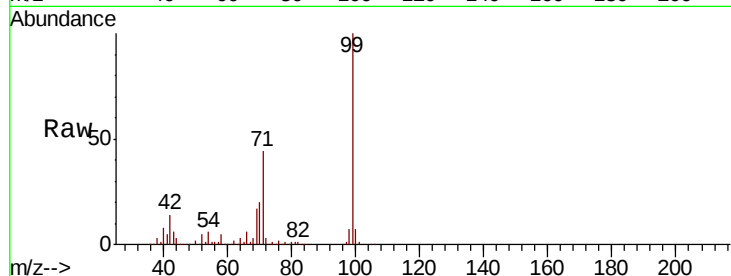
Tgt Ion: 99 Resp: 650179

Ion Ratio Lower Upper

99 100

42 13.6 14.2 21.2#

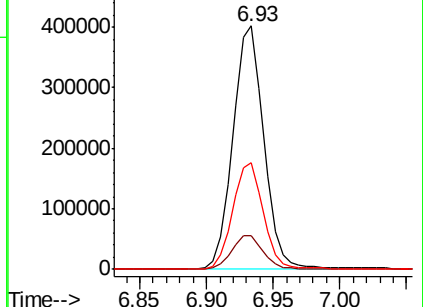
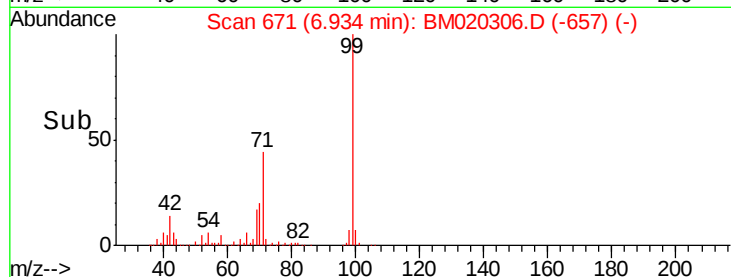
71 43.9 40.3 60.5



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

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

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.56 min Scan# 1287

Delta R.T. -0.03 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Tgt Ion: 136 Resp: 207315

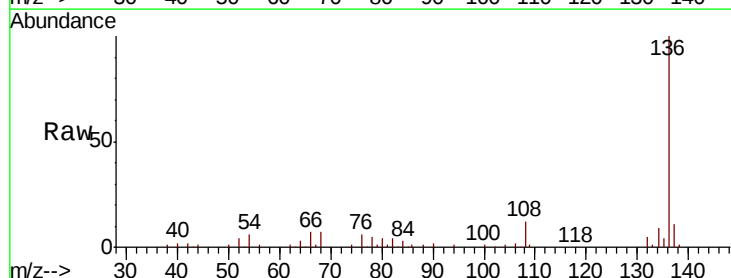
Ion Ratio Lower Upper

136 100

137 10.8 9.6 14.4

54 6.1 5.5 8.3

68 6.5 4.6 6.8

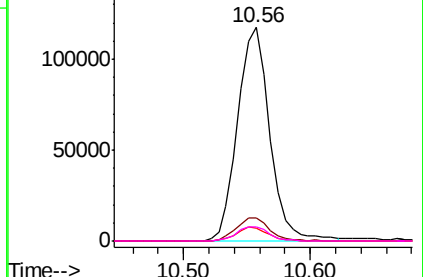
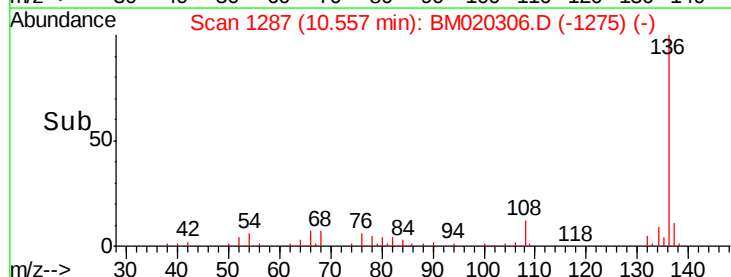


Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

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) (-)

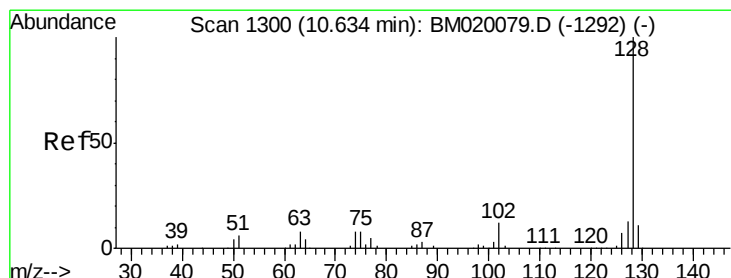
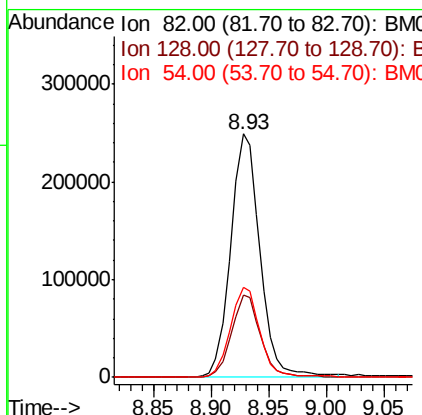
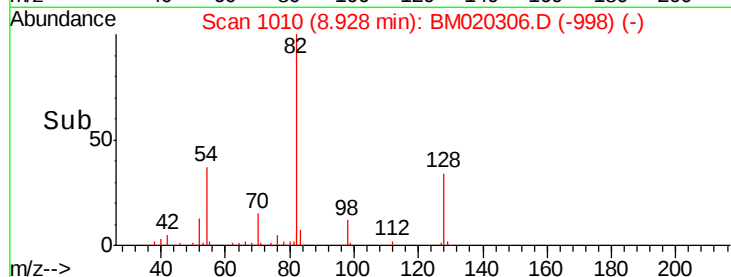
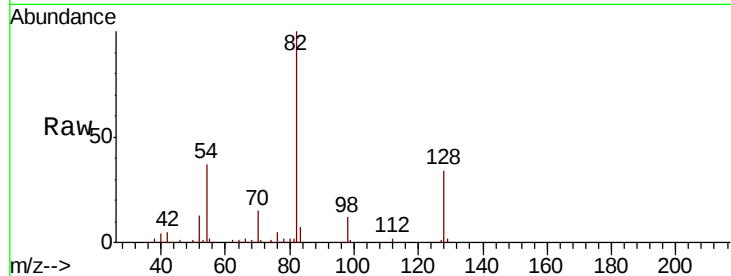




#23
Nitrobenzene-d5
Concen: 83.641 ng
RT: 8.93 min Scan# 1010
Delta R.T. -0.03 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

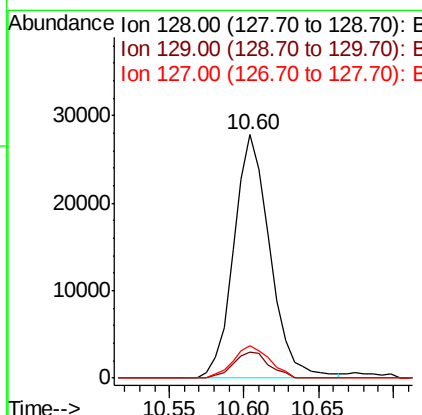
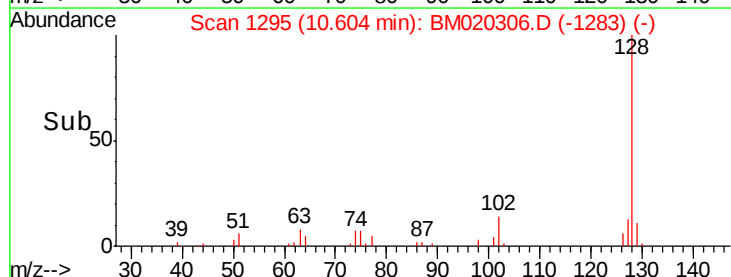
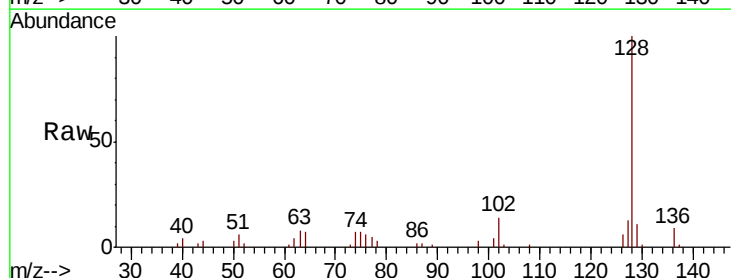
Instrument :
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P026-SS009-0002-01

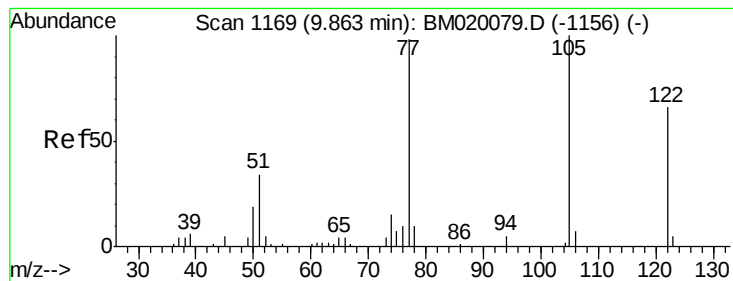
Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.0	25.2	37.8
54	37.1	31.9	47.9



#31
Naphthalene
Concen: 4.382 ng
RT: 10.60 min Scan# 1295
Delta R.T. -0.03 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.0	13.4
127	13.1	10.4	15.6





#32

Benzoic acid

Concen: 6.658 ng

RT: 9.80 min Scan# 1159

Delta R.T. -0.06 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

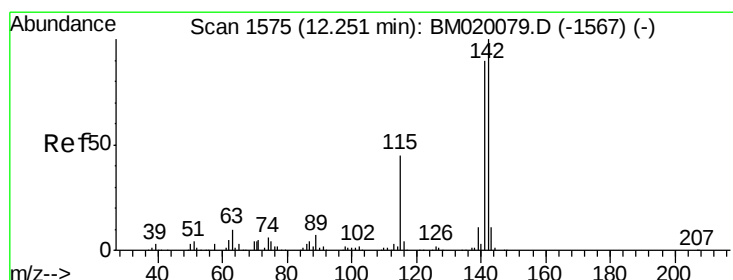
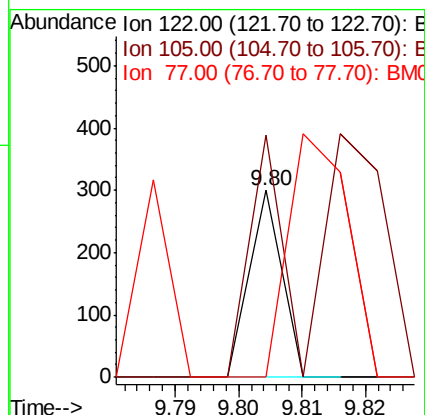
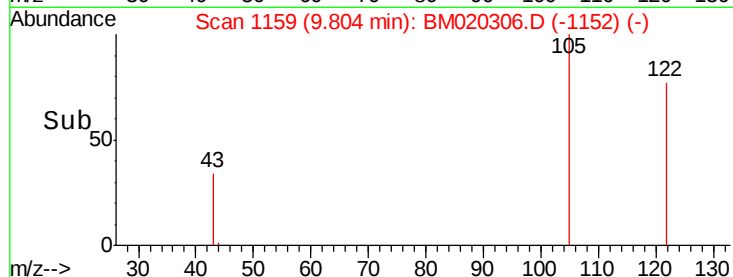
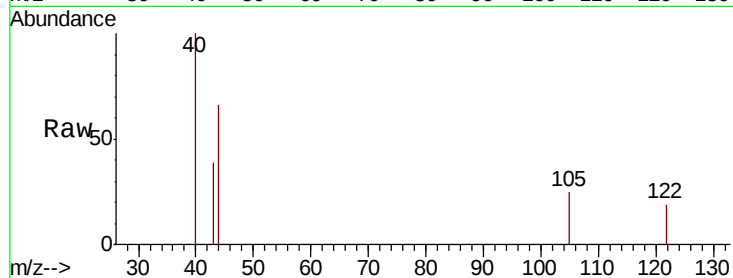
Tgt Ion:122 Resp: 106

Ion Ratio Lower Upper

122 100

105 129.3 122.5 162.5

77 0.0 123.3 163.3#



#37

2-Methylnaphthalene

Concen: 2.689 ng

RT: 12.22 min Scan# 1570

Delta R.T. -0.03 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

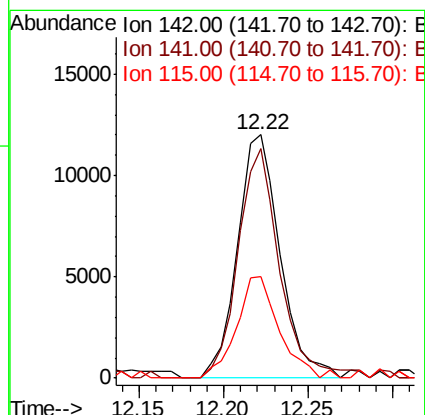
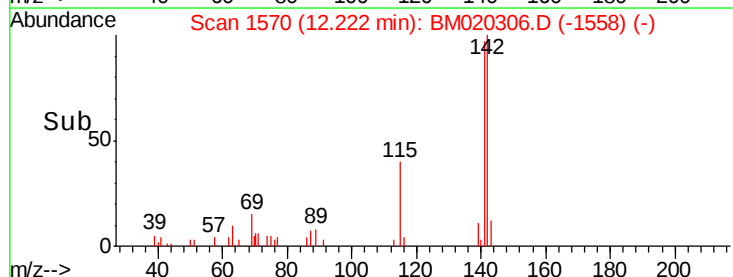
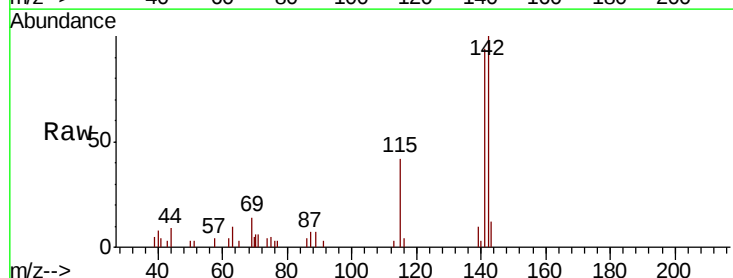
Tgt Ion:142 Resp: 21090

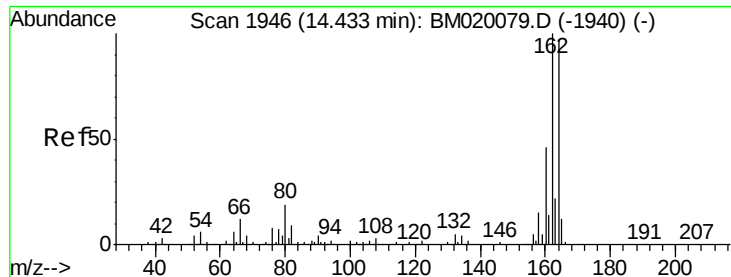
Ion Ratio Lower Upper

142 100

141 94.4 71.6 107.4

115 41.8 35.8 53.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.41 min Scan# 1942

Delta R.T. -0.02 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

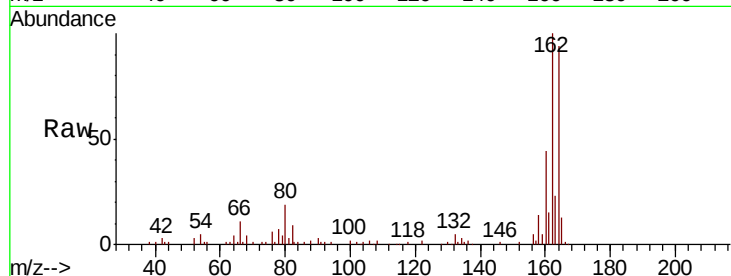
Tgt Ion:164 Resp: 128407

Ion Ratio Lower Upper

164 100

162 106.5 82.2 123.2

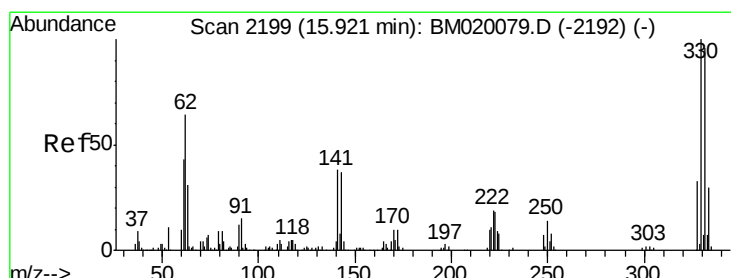
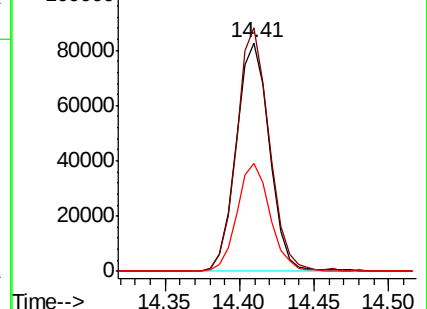
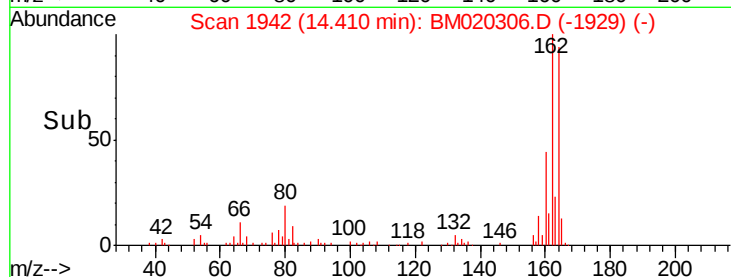
160 47.0 37.6 56.4



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: 126.525 ng

RT: 15.90 min Scan# 2196

Delta R.T. -0.02 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

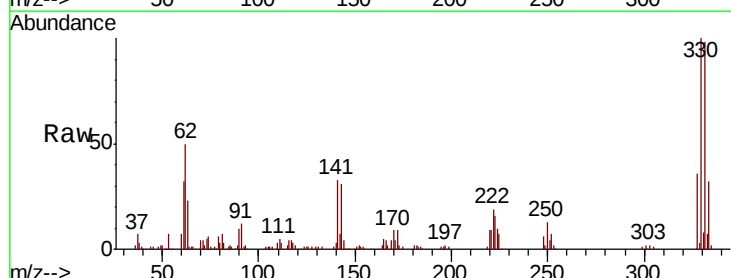
Tgt Ion:330 Resp: 252179

Ion Ratio Lower Upper

330 100

332 96.2 76.8 115.2

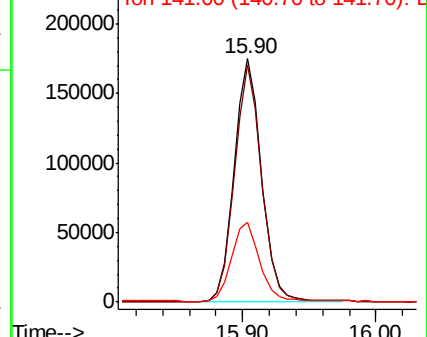
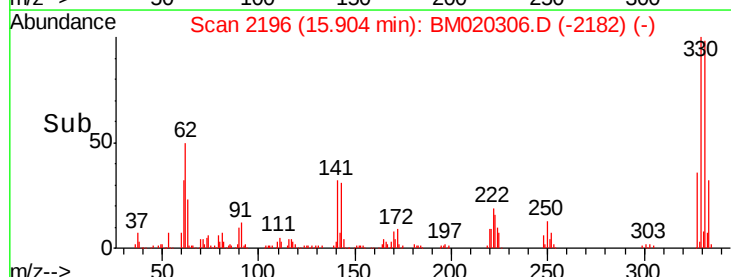
141 32.9 29.2 43.8

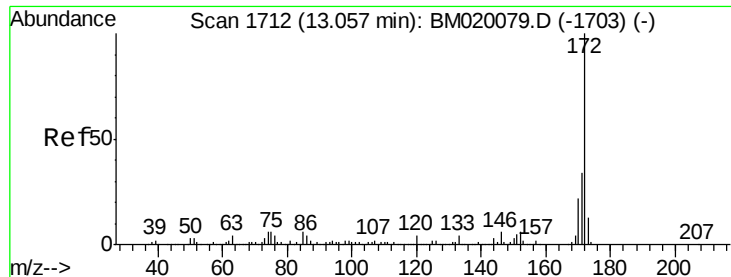


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

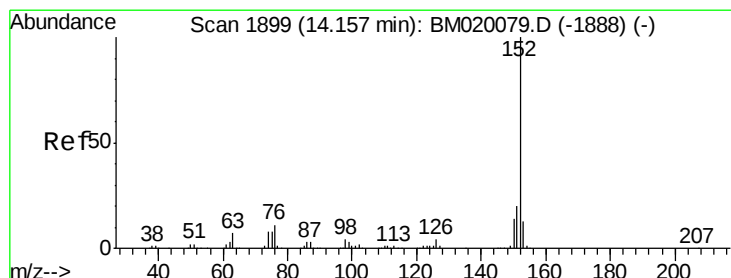
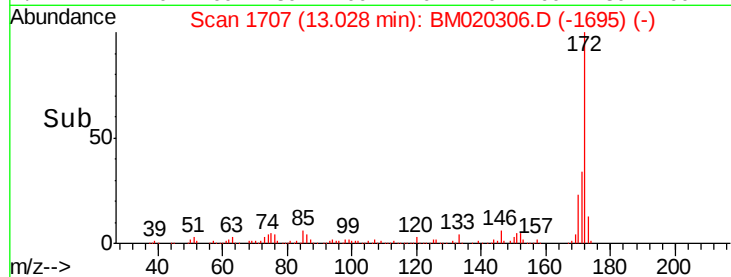
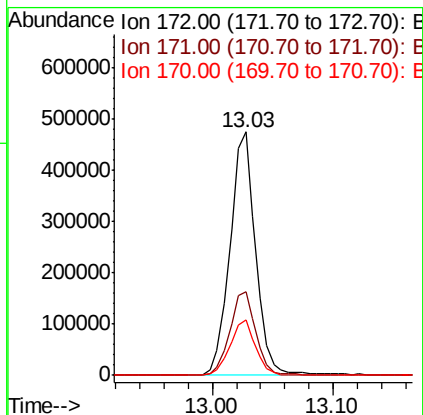
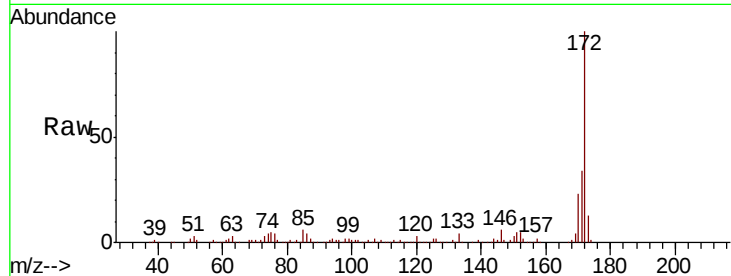




#45
2-Fluorobiphenyl
Concen: 67.243 ng
RT: 13.03 min Scan# 1707
Delta R.T. -0.03 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

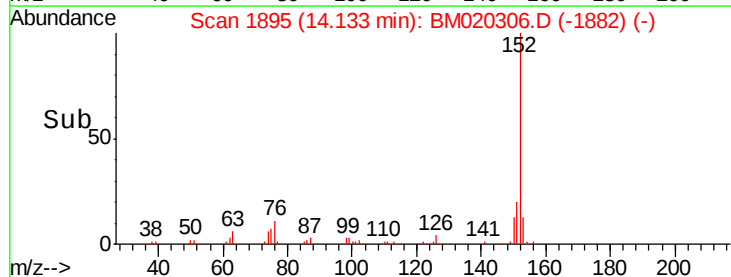
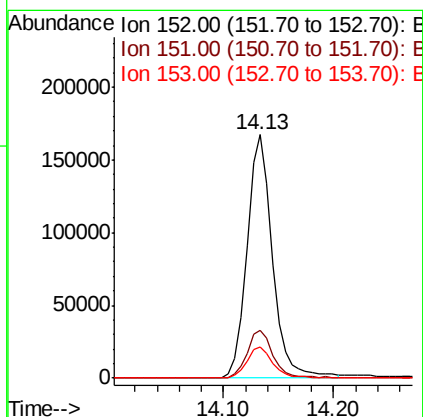
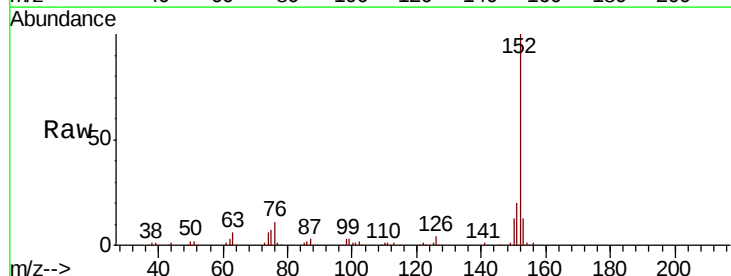
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P026-SS009-0002-01

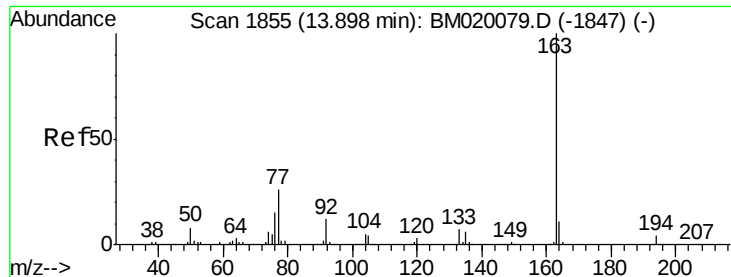
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.3	40.9
170	22.8	17.9	26.9



#49
Acenaphthylene
Concen: 20.094 ng
RT: 14.13 min Scan# 1895
Delta R.T. -0.02 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.1	10.6	16.0





#50

Dimethylphthalate

Concen: 12.652 ng

RT: 13.87 min Scan# 1850

Delta R.T. -0.03 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

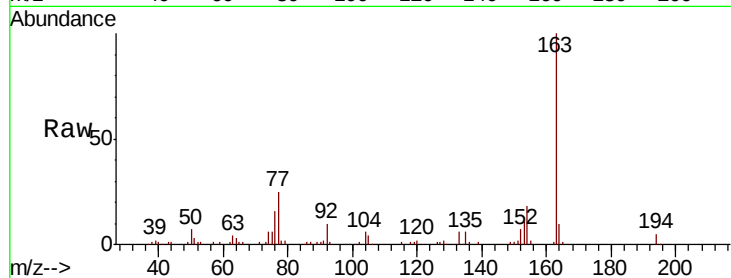
Tgt Ion:163 Resp: 138078

Ion Ratio Lower Upper

163 100

194 4.6 3.6 5.4

164 10.5 8.4 12.6

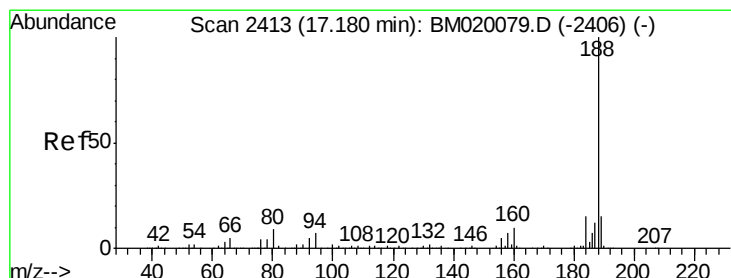
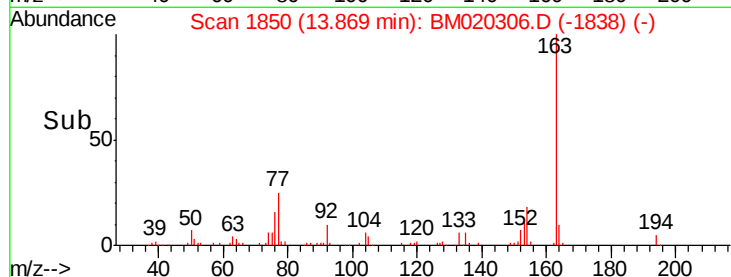
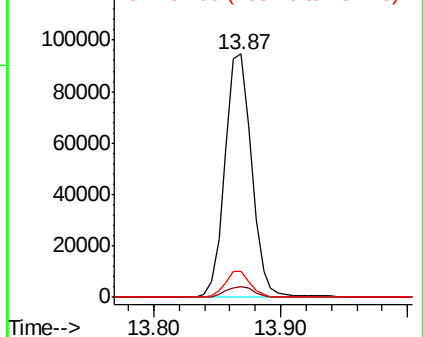


Abundance

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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.16 min Scan# 2409

Delta R.T. -0.02 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

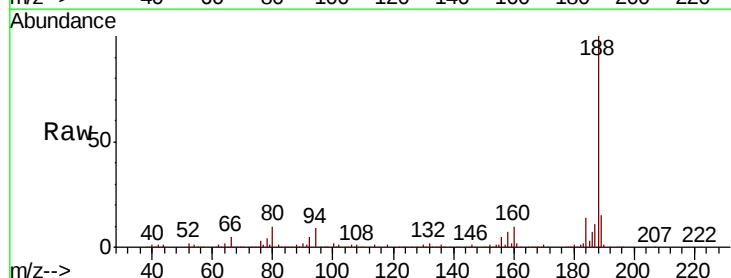
Tgt Ion:188 Resp: 323757

Ion Ratio Lower Upper

188 100

94 8.8 5.8 8.6#

80 10.2 7.4 11.2

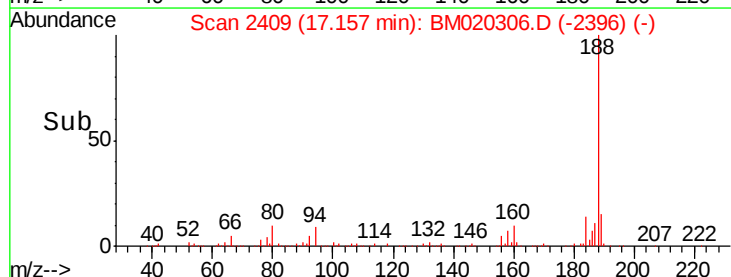
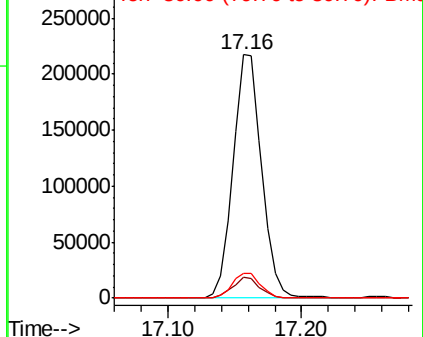


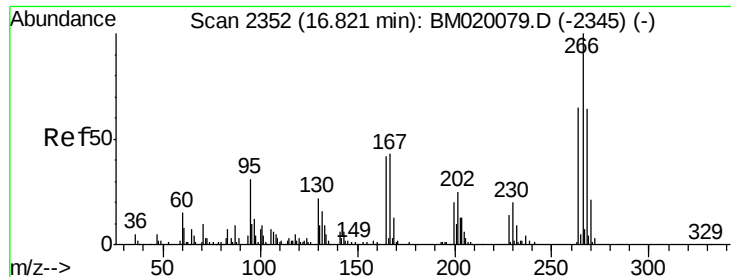
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

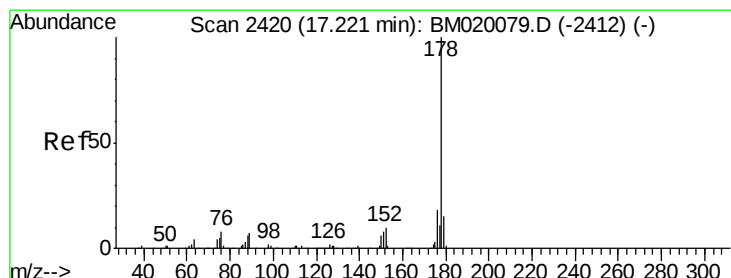
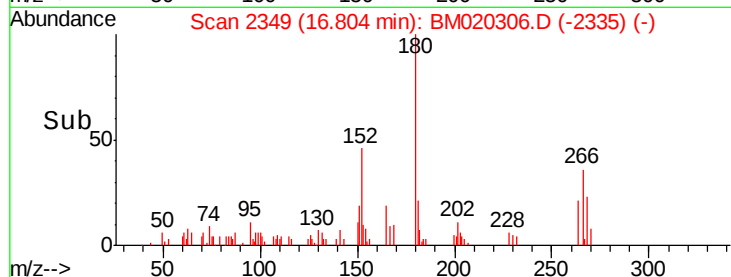
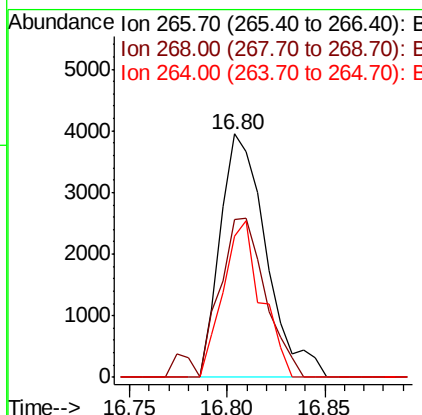
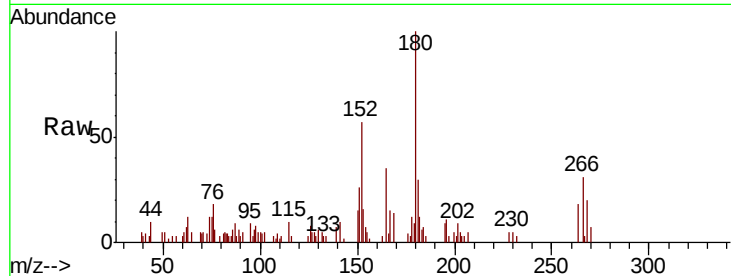




#70
 Pentachlorophenol
 Concen: 2.461 ng
 RT: 16.80 min Scan# 2349
 Delta R.T. -0.02 min
 Lab File: BM020306.D
 Acq: 12 May 2019 19:42

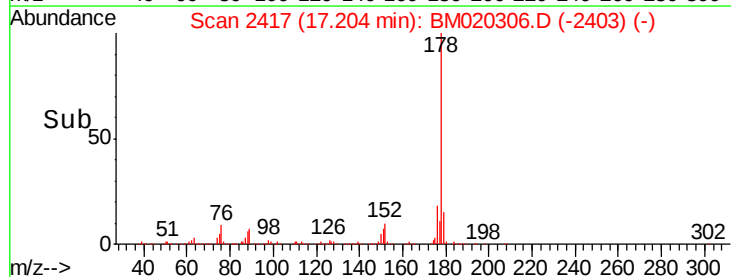
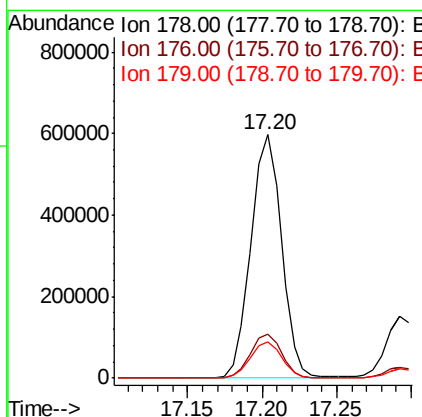
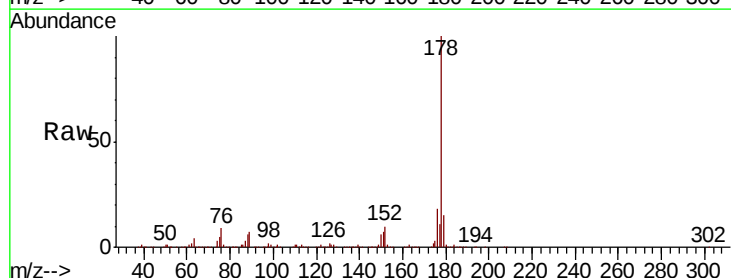
Instrument :
 BNA_M
 ClientSampleId :
 P026-SS009-0002-01

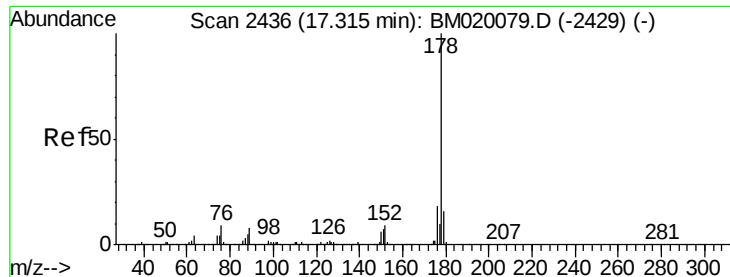
Tgt Ion:266 Resp: 6434
 Ion Ratio Lower Upper
 266 100
 268 64.6 51.4 77.0
 264 57.9 52.0 78.0



#71
 Phenanthrene
 Concen: 47.539 ng
 RT: 17.20 min Scan# 2417
 Delta R.T. -0.02 min
 Lab File: BM020306.D
 Acq: 12 May 2019 19:42

Tgt Ion:178 Resp: 849599
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.6 21.8
 179 15.0 12.4 18.6





#72

Anthracene

Concen: 12.314 ng

RT: 17.29 min Scan# 2432

Delta R.T. -0.02 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

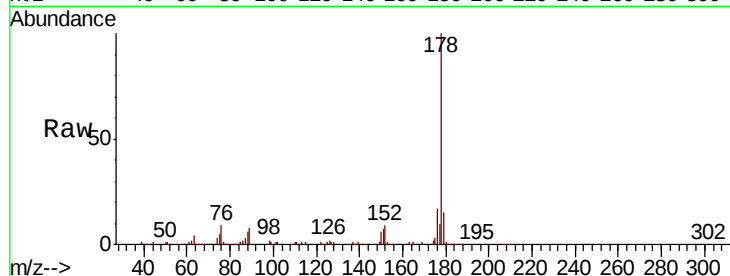
Tgt Ion:178 Resp: 220038

Ion Ratio Lower Upper

178 100

176 17.3 14.6 22.0

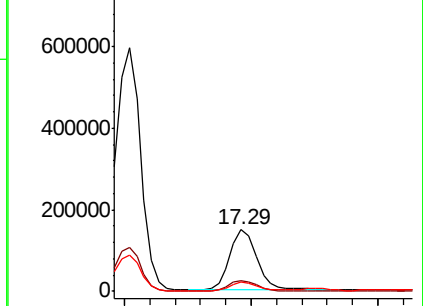
179 15.4 12.4 18.6



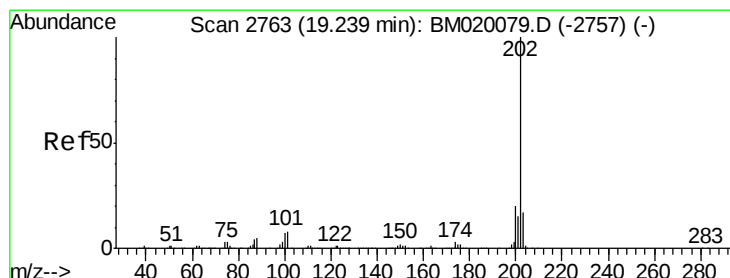
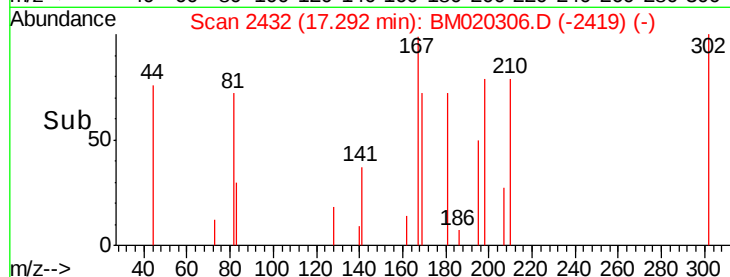
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#75

Fluoranthene

Concen: 76.317 ng

RT: 19.23 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

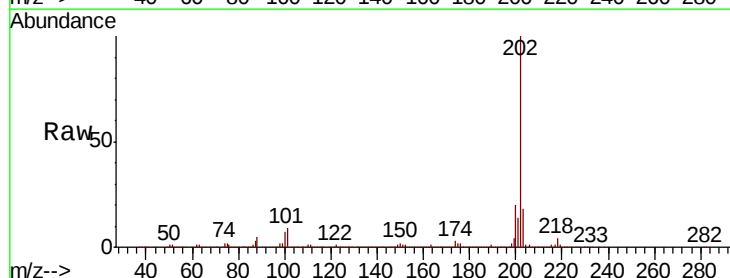
Tgt Ion:202 Resp: 1725684

Ion Ratio Lower Upper

202 100

101 8.9 0.0 28.4

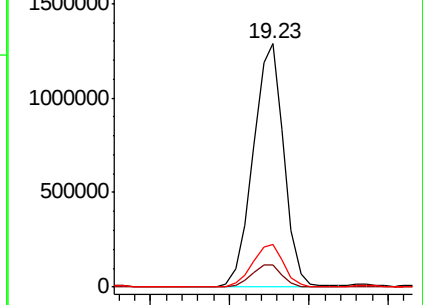
203 17.8 0.0 37.4



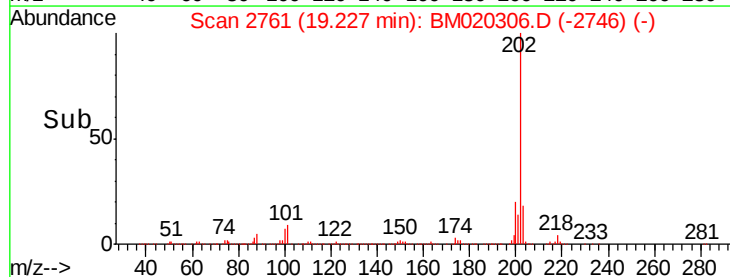
Abundance Ion 202.00 (201.70 to 202.70): E

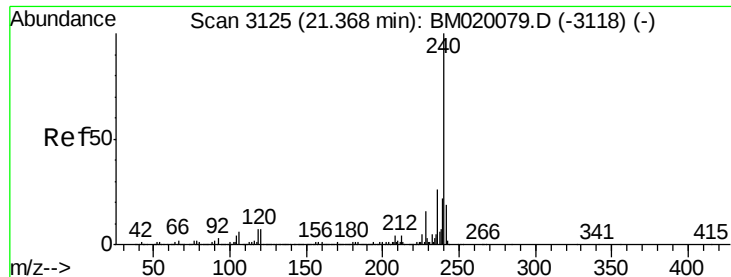
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->

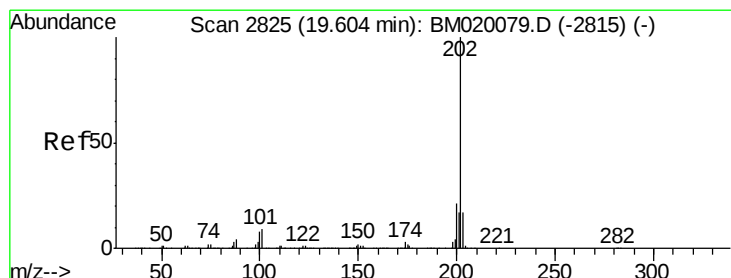
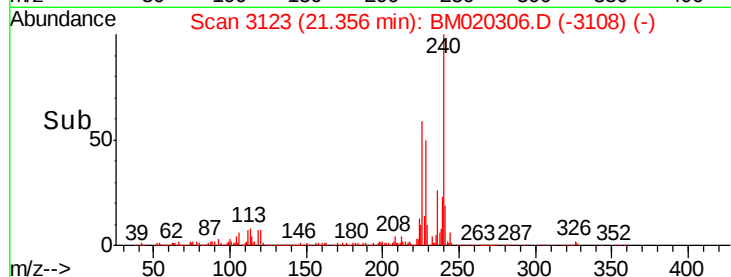
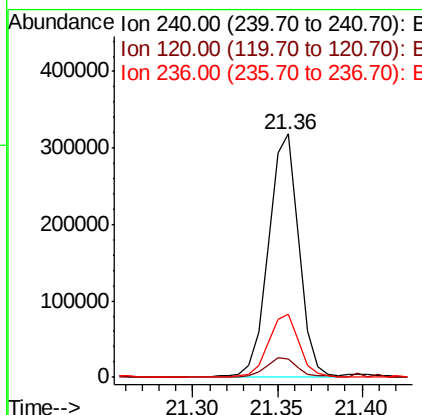
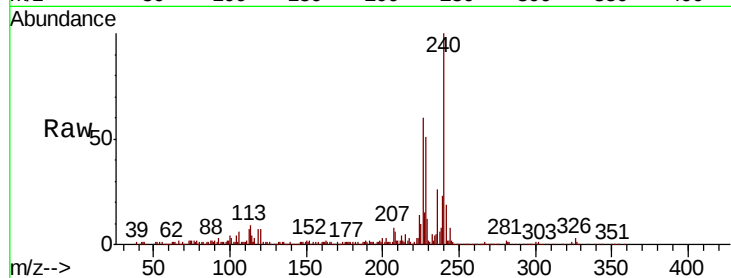




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.36 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

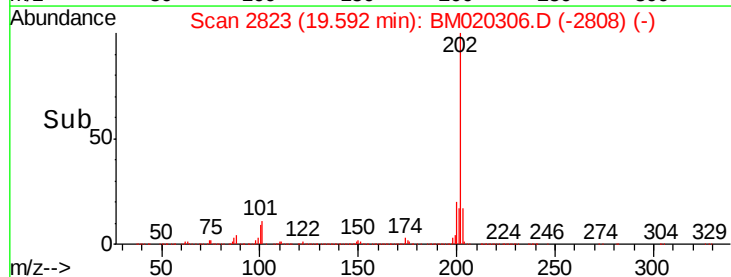
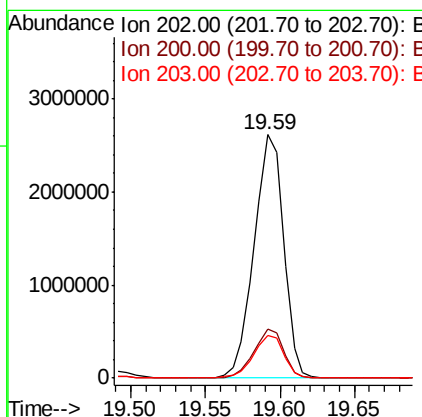
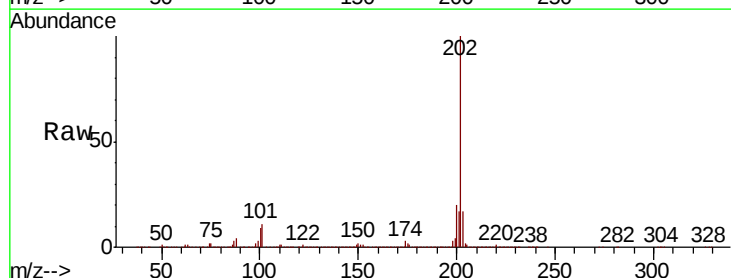
Instrument :
BNA_M
ClientSampleId :
P026-SS009-0002-01

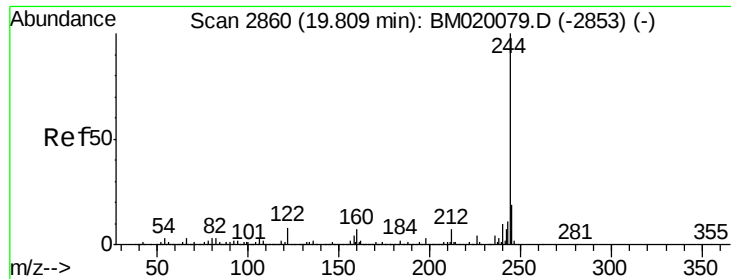
Tgt Ion:240 Resp: 392877
Ion Ratio Lower Upper
240 100
120 7.5 5.6 8.4
236 26.2 20.9 31.3



#78
Pyrene
Concen: 135.256 ng
RT: 19.59 min Scan# 2823
Delta R.T. -0.01 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

Tgt Ion:202 Resp: 3567691
Ion Ratio Lower Upper
202 100
200 19.9 16.5 24.7
203 17.4 13.9 20.9





#79

Terphenyl-d14

Concen: 53.140 ng

RT: 19.79 min Scan# 2856

Delta R.T. -0.02 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

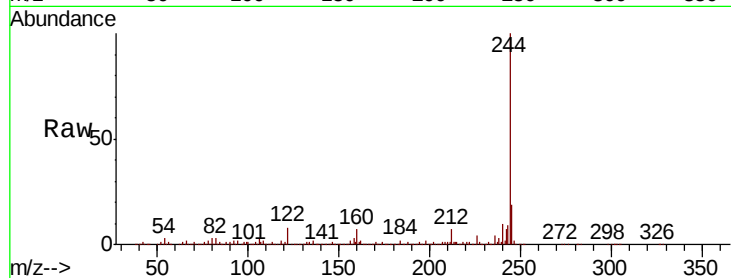
Tgt Ion:244 Resp: 1196953

Ion Ratio Lower Upper

244 100

212 6.9 5.7 8.5

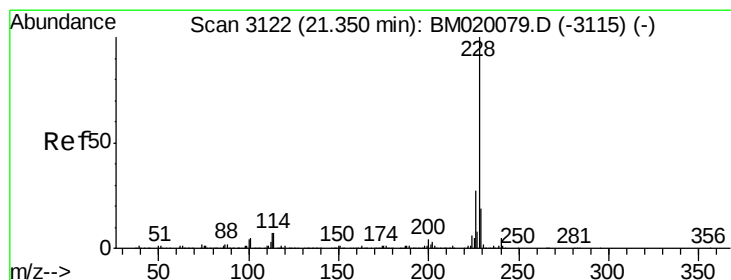
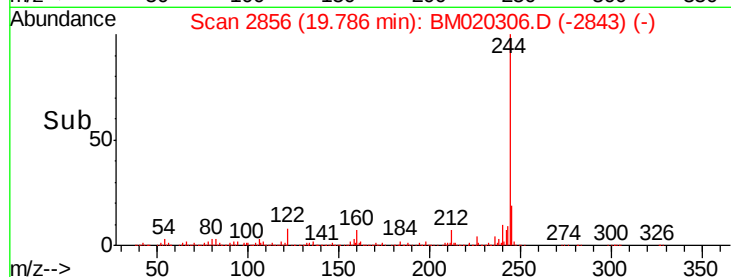
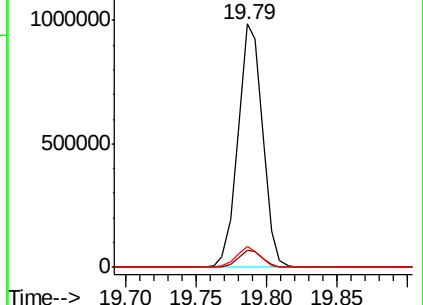
122 8.5 6.2 9.2



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: 52.182 ng

RT: 21.39 min Scan# 3129

Delta R.T. 0.04 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

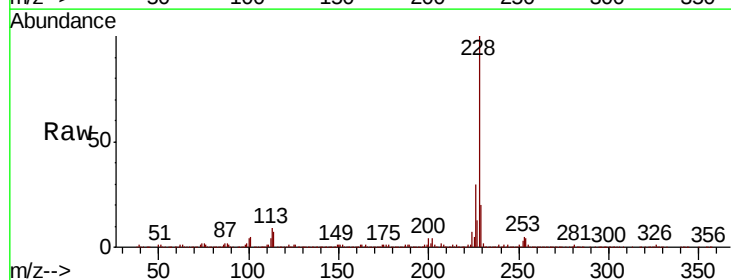
Tgt Ion:228 Resp: 1437747

Ion Ratio Lower Upper

228 100

226 29.8 21.3 31.9

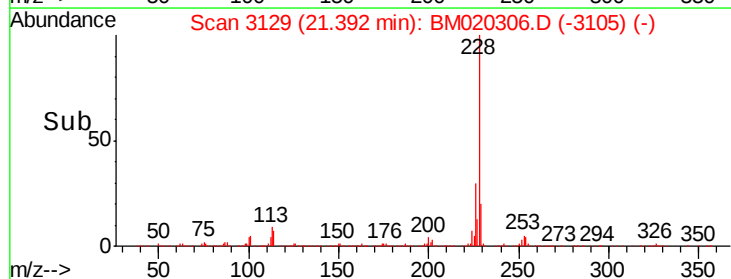
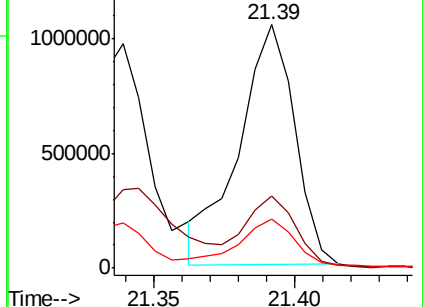
229 20.4 15.5 23.3

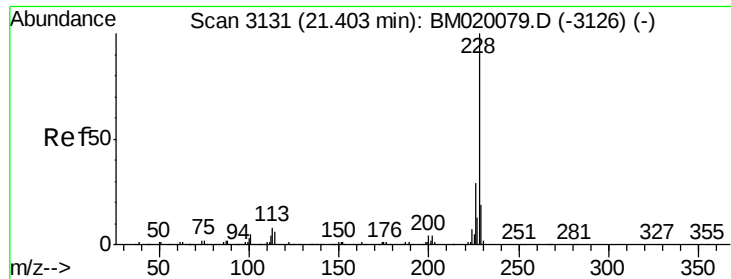


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 55.343 ng

RT: 21.39 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

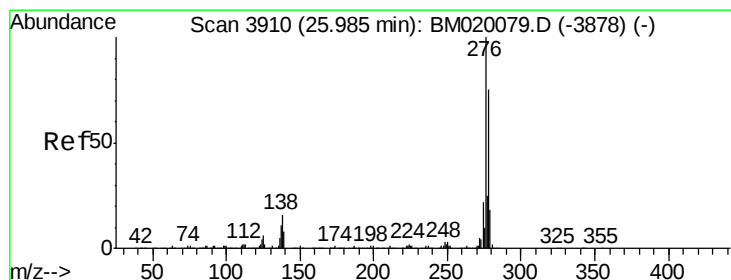
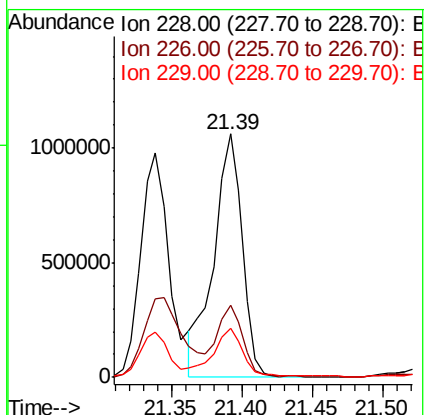
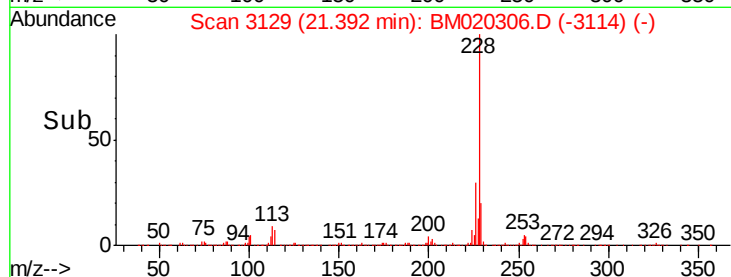
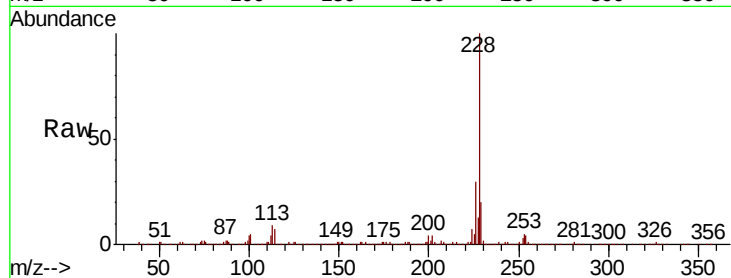
BNA_M

ClientSampleId :

P026-SS009-0002-01

Tgt Ion:228 Resp: 1478837

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.0	34.6
229	20.4	15.5	23.3



#86

Indeno(1,2,3-cd)pyrene

Concen: 27.410 ng

RT: 25.97 min Scan# 3908

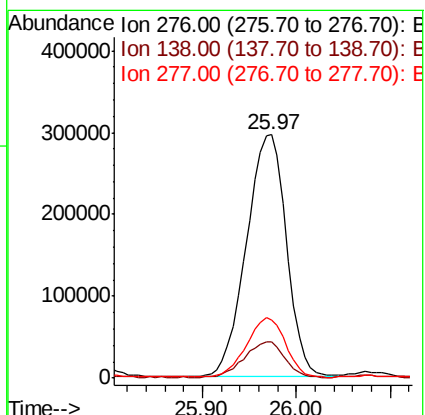
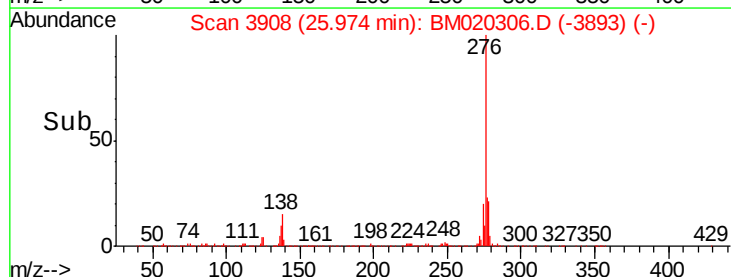
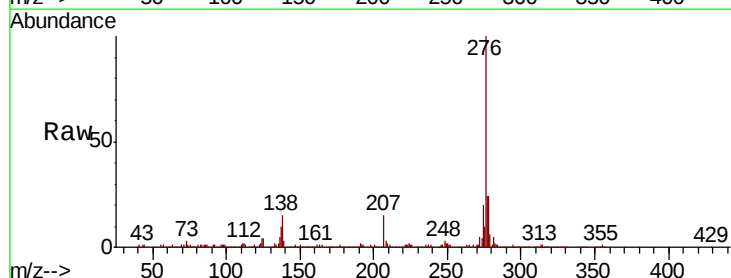
Delta R.T. -0.01 min

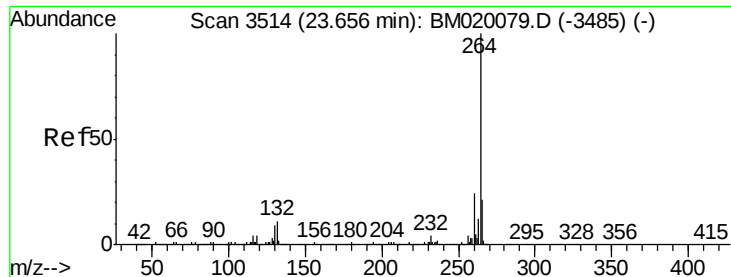
Lab File: BM020306.D

Acq: 12 May 2019 19:42

Tgt Ion:276 Resp: 871194

Ion	Ratio	Lower	Upper
276	100		
138	14.5	0.0	0.0#
277	24.1	0.0	0.0#



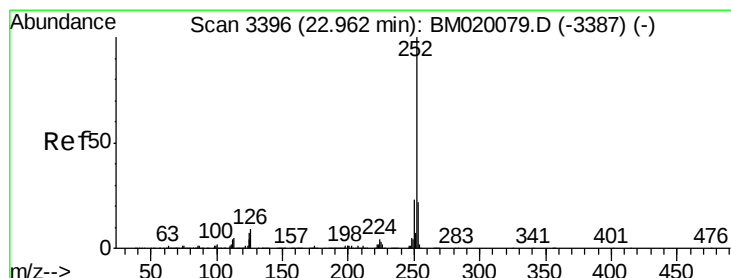
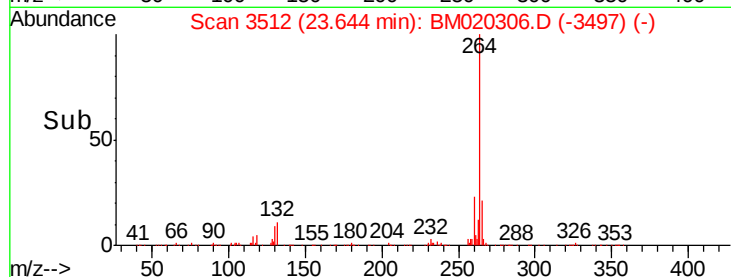
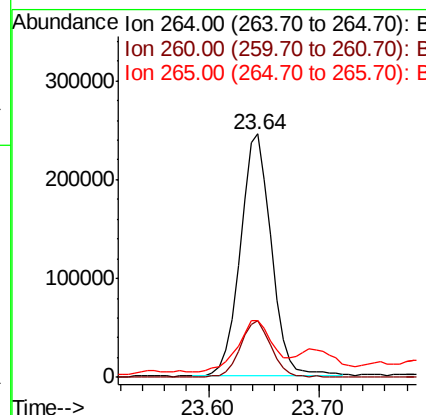
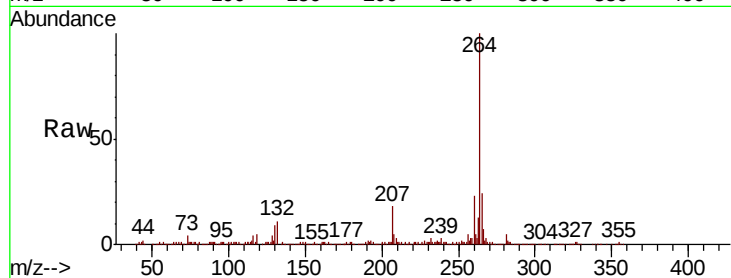


#87
Perylene-d12
Concen: 20.000 ng
RT: 23.64 min Scan# 3512
Delta R.T. -0.01 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

Instrument :
BNA_M
ClientSampleId :
P026-SS009-0002-01

Tgt Ion: 264 Resp: 485317

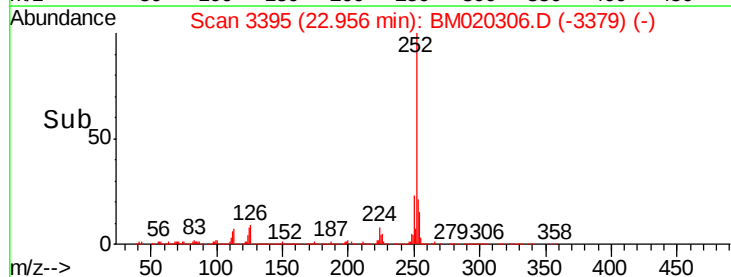
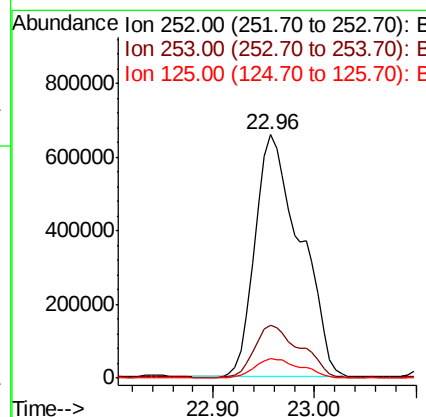
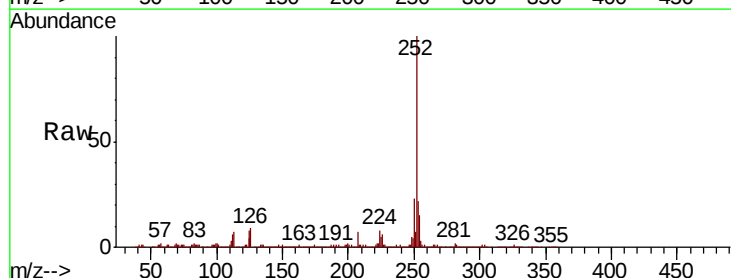
Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	23.5	16.9	25.3

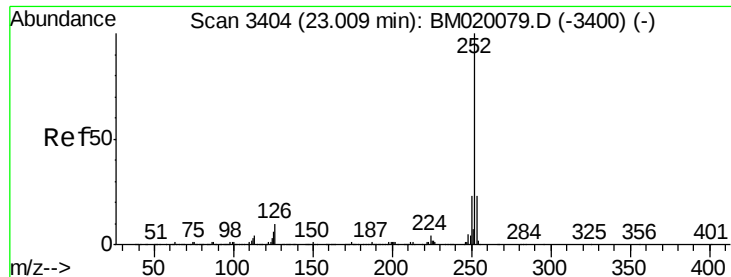


#88
Benzo(b)fluoranthene
Concen: 63.781 ng
RT: 22.96 min Scan# 3395
Delta R.T. -0.01 min
Lab File: BM020306.D
Acq: 12 May 2019 19:42

Tgt Ion: 252 Resp: 2044045

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.2	5.4	8.2#





#89

Benzo(k)fluoranthene

Concen: 69.906 ng

RT: 22.96 min Scan# 3395

Delta R.T. -0.05 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

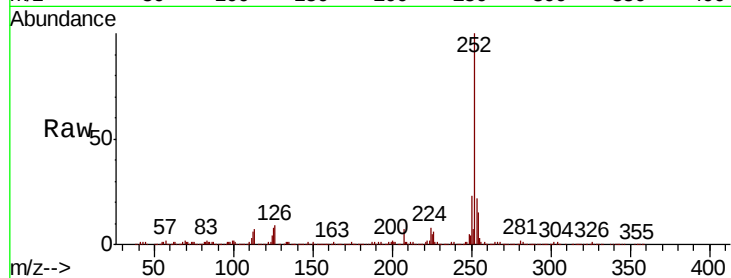
Tgt Ion:252 Resp: 2043588

Ion Ratio Lower Upper

252 100

253 21.7 17.8 26.8

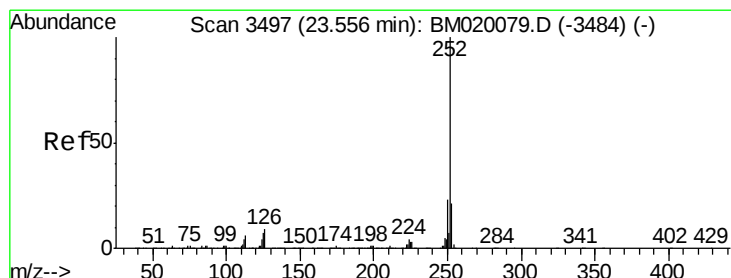
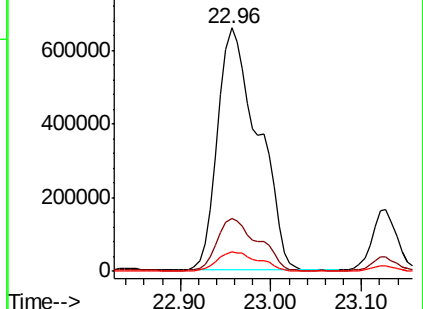
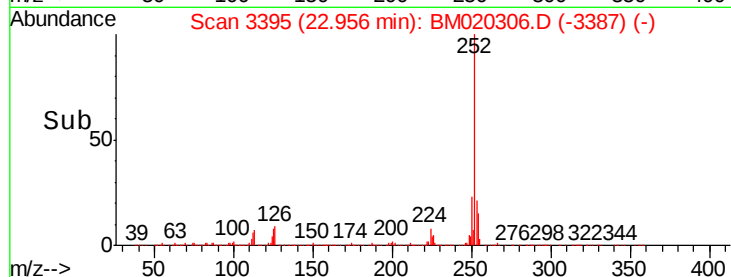
125 8.2 5.4 8.0#



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: 39.652 ng

RT: 23.54 min Scan# 3495

Delta R.T. -0.01 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

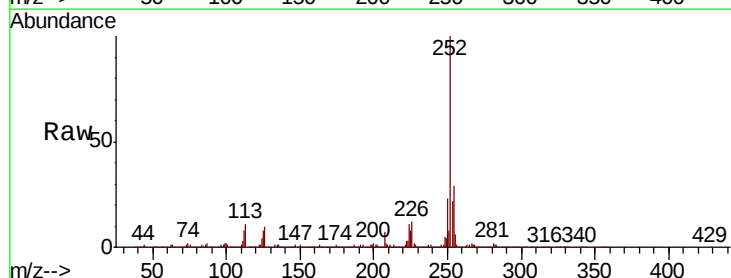
Tgt Ion:252 Resp: 1154259

Ion Ratio Lower Upper

252 100

253 22.2 17.0 25.6

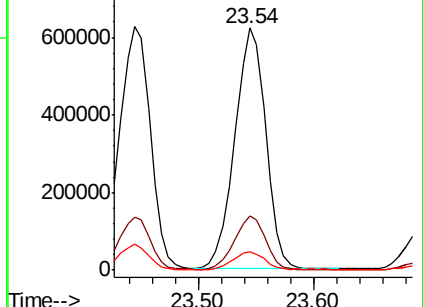
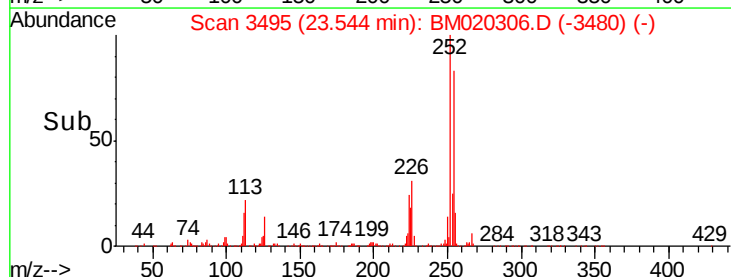
125 7.8 5.5 8.3

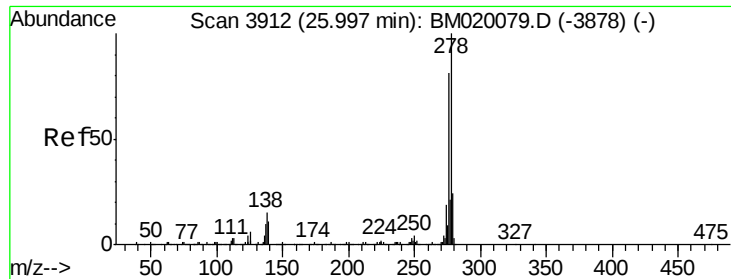


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 7.390 ng

RT: 25.97 min Scan# 3908

Delta R.T. -0.02 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

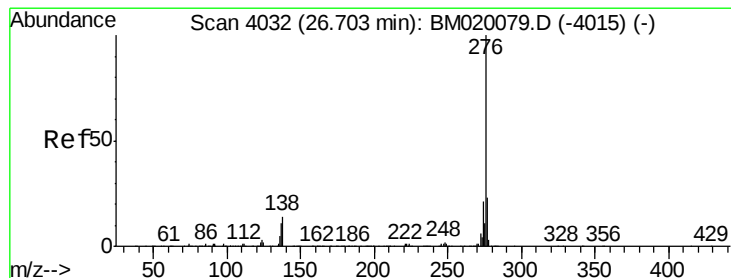
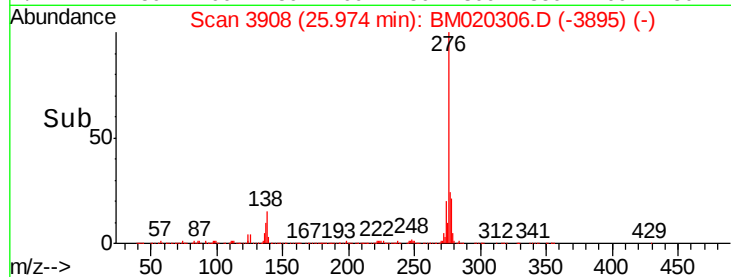
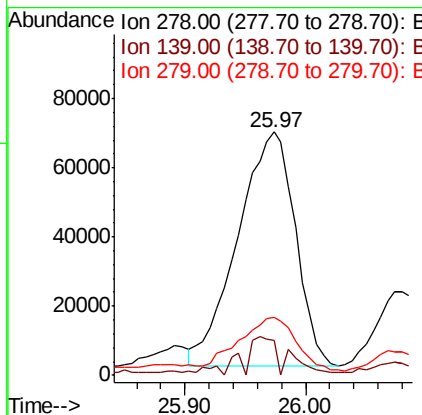
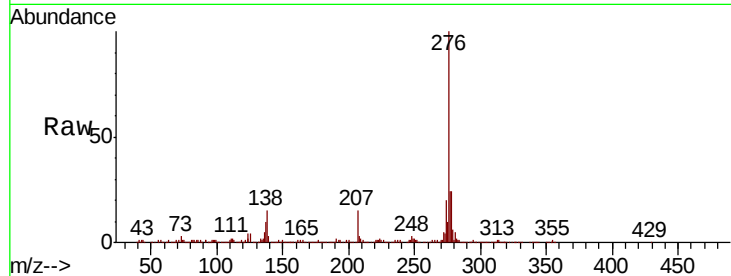
Instrument :

BNA_M

ClientSampleId :

P026-SS009-0002-01

Tgt Ion:	278	Resp:	223730
Ion	Ratio	Lower	Upper
278	100		
139	14.4	8.6	13.0#
279	24.0	18.8	28.2



#92

Benzo(g,h,i)perylene

Concen: 35.929 ng

RT: 26.70 min Scan# 4031

Delta R.T. -0.01 min

Lab File: BM020306.D

Acq: 12 May 2019 19:42

Tgt Ion:	276	Resp:	1032644
Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.4	27.6
138	14.2	11.1	16.7

