

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM022519\
 Data File : BM018921.D
 Acq On : 25 Feb 2019 19:48
 Operator : JU/SJ
 Sample : K1348-05 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OK-03-022219-B

Quant Time: Feb 25 20:56:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 11 16:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	188804	20.00	ng	-0.02
21) Naphthalene-d8	10.48	136	757995	20.00	ng	-0.02
39) Acenaphthene-d10	14.35	164	417980	20.00	ng	-0.02
64) Phenanthrene-d10	17.10	188	938090	20.00	ng	-0.02
76) Chrysene-d12	21.29	240	1006351	20.00	ng	-0.02
87) Perylene-d12	23.54	264	1104014	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	541765	47.02	ng	-0.02
7) Phenol-d6	6.86	99	746352	45.98	ng	-0.02
23) Nitrobenzene-d5	8.86	82	470181	28.68	ng	-0.03
42) 2,4,6-Tribromophenol	15.84	330	246411	40.90	ng	-0.02
45) 2-Fluorobiphenyl	12.96	172	836962	26.58	ng	-0.02
79) Terphenyl-d14	19.73	244	1200116	24.60	ng	-0.02

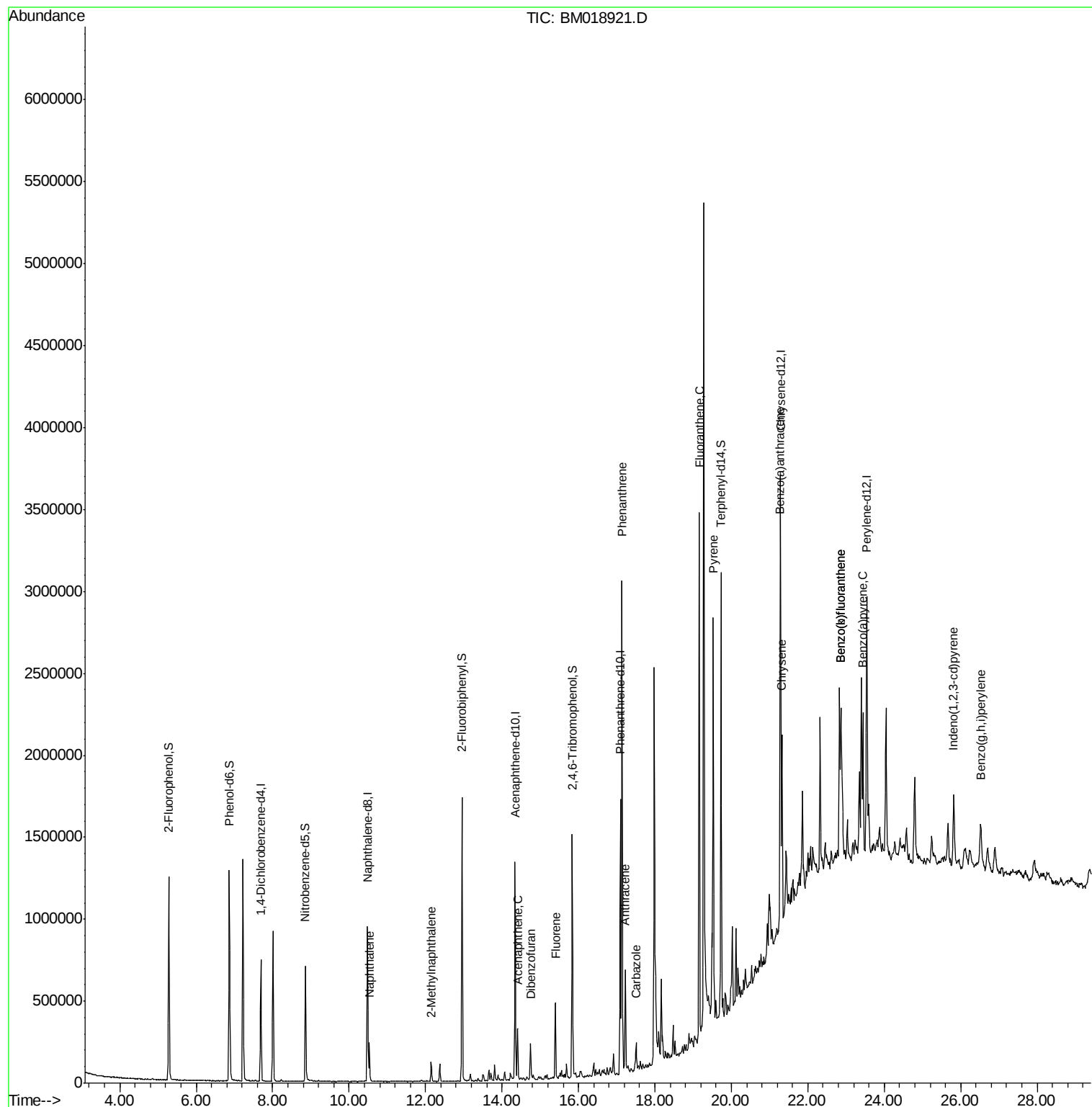
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.86	77	3995	Below Cal		# 7
31) Naphthalene	10.53	128	183238	4.957	ng	99
37) 2-Methylnaphthalene	12.15	142	57367	2.204	ng	98
52) Acenaphthene	14.41	154	105608	4.162	ng	98
55) Dibenzofuran	14.75	168	126035	3.022	ng	100
58) Fluorene	15.40	166	205008	6.426	ng	99
71) Phenanthrene	17.14	178	1601435	31.765	ng	99
72) Anthracene	17.23	178	376770	7.678	ng	99
73) Carbazole	17.51	167	107643	2.100	ng	99
75) Fluoranthene	19.16	202	1781868	30.598	ng	99
78) Pyrene	19.53	202	1421986	24.329	ng	100
81) Benzo(a)anthracene	21.27	228	738184	12.584	ng	99
83) Chrysene	21.33	228	579619	10.309	ng	97
86) Indeno(1,2,3-cd)pyrene	25.82	276	370195	5.703	ng	95
88) Benzo(b)fluoranthene	22.86	252	1066712	16.888	ng	97
89) Benzo(k)fluoranthene	22.86	252	1065807	16.949	ng	# 96
90) Benzo(a)pyrene	23.44	252	595661	9.955	ng	95
92) Benzo(g,h,i)perylene	26.52	276	331043	5.998	ng	98

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

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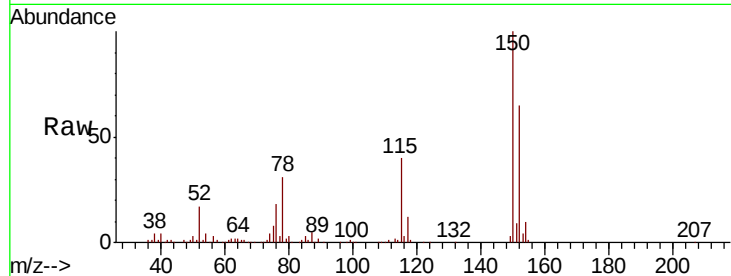


#1

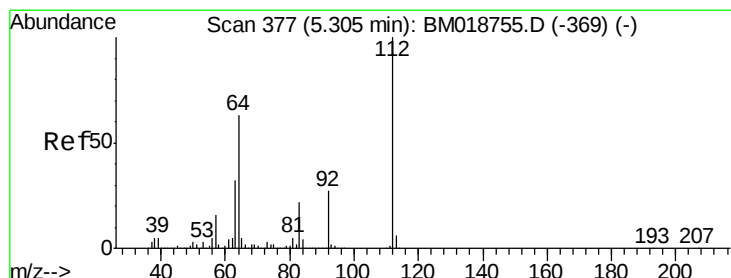
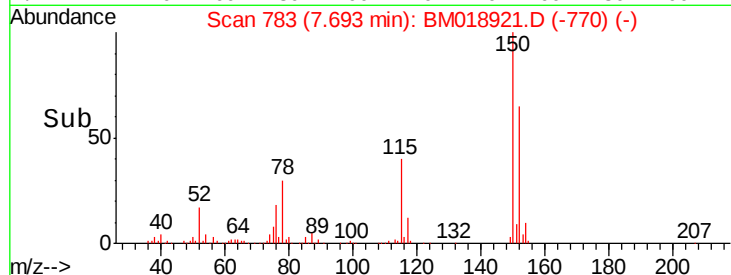
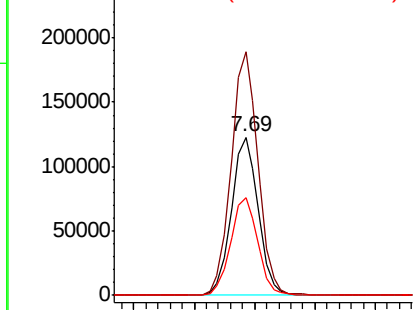
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.69 min Scan# 783
Delta R.T. -0.02 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

Instrument :
BNA_M
ClientSampleId :
OK-03-022219-B

Tgt Ion:152 Resp: 188804
Ion Ratio Lower Upper
152 100
150 154.0 127.3 190.9
115 61.4 50.8 76.2



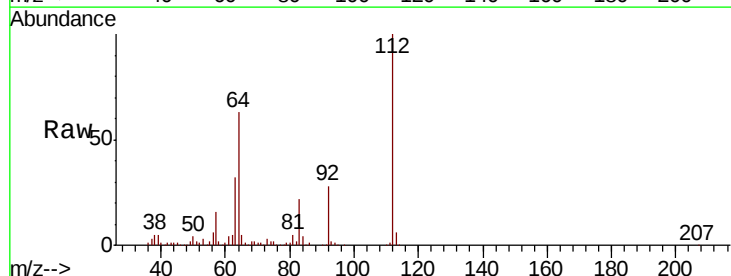
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



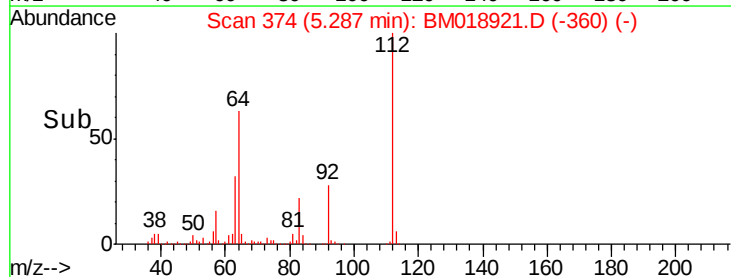
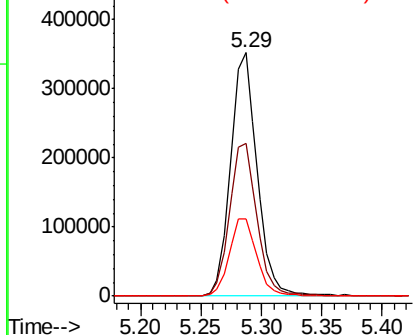
#5

2-Fluorophenol
Concen: 47.015 ng
RT: 5.29 min Scan# 374
Delta R.T. -0.02 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

Tgt Ion:112 Resp: 541765
Ion Ratio Lower Upper
112 100
64 62.8 50.6 75.8
63 32.0 25.7 38.5



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: 45.977 ng

RT: 6.86 min Scan# 642

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

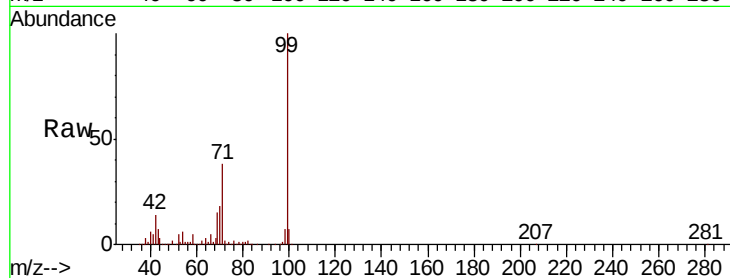
Tgt Ion: 99 Resp: 746352

Ion Ratio Lower Upper

99 100

42 14.1 11.0 16.6

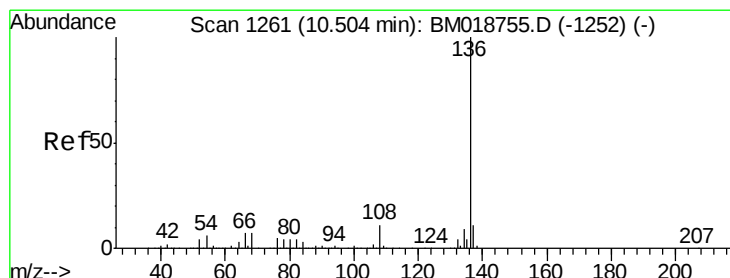
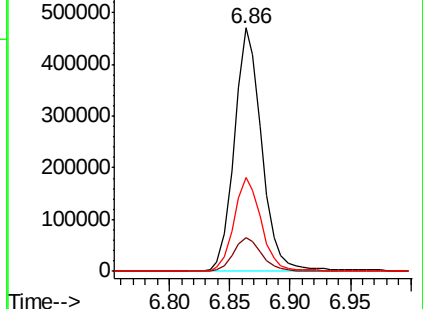
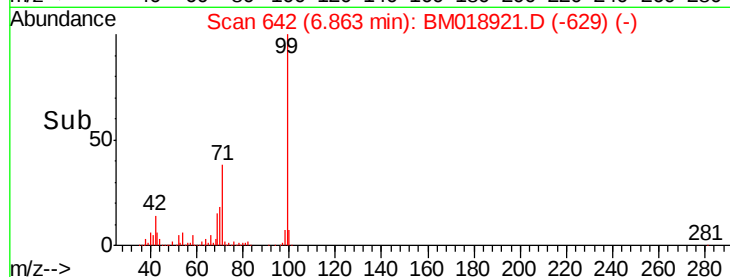
71 38.5 31.3 46.9



Abundance Ion 99.00 (98.70 to 99.70): BM018921.D (-629) (-)

Ion 42.00 (41.70 to 42.70): BM018921.D (-629) (-)

Ion 71.00 (70.70 to 71.70): BM018921.D (-629) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.48 min Scan# 1257

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Tgt Ion: 136 Resp: 757995

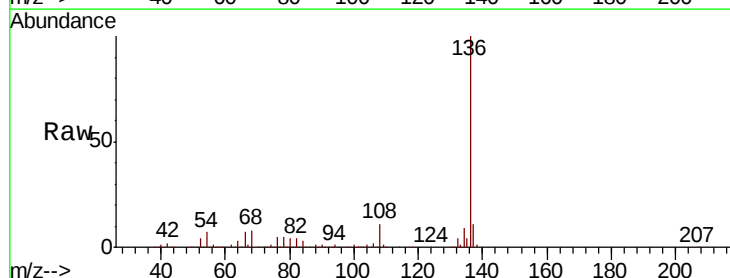
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 6.9 5.0 7.6

68 7.7 5.5 8.3

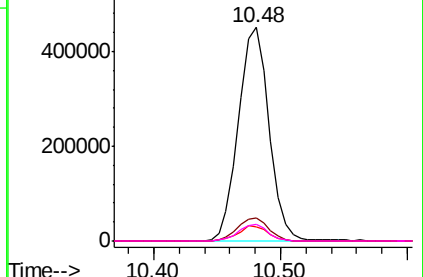
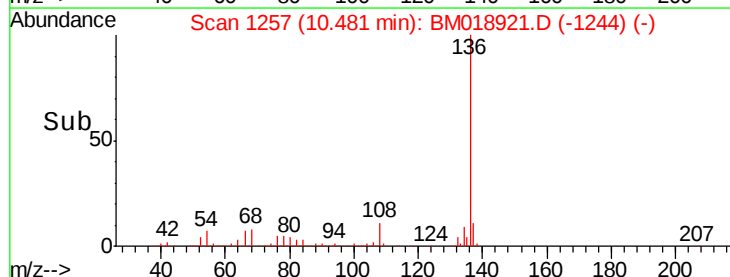


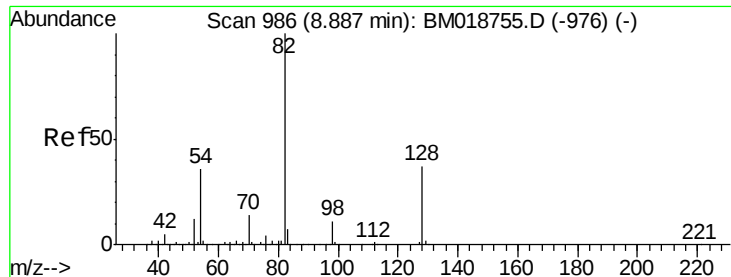
Abundance Ion 136.00 (135.70 to 136.70): BM018921.D (-1244) (-)

Ion 137.00 (136.70 to 137.70): BM018921.D (-1244) (-)

Ion 54.00 (53.70 to 54.70): BM018921.D (-1244) (-)

Ion 68.00 (67.70 to 68.70): BM018921.D (-1244) (-)

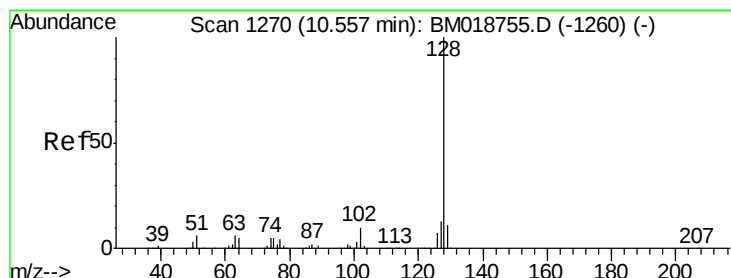
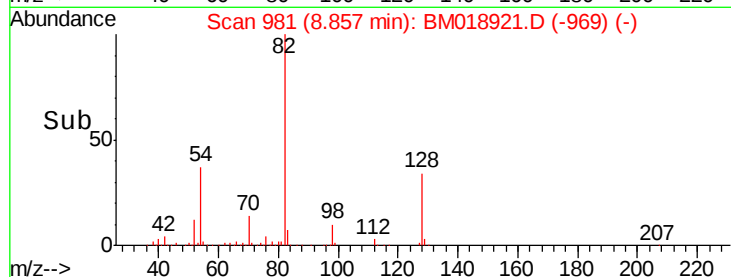
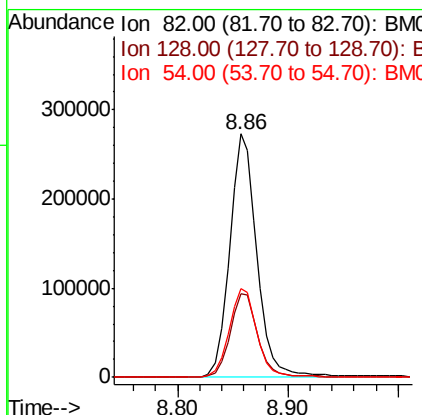
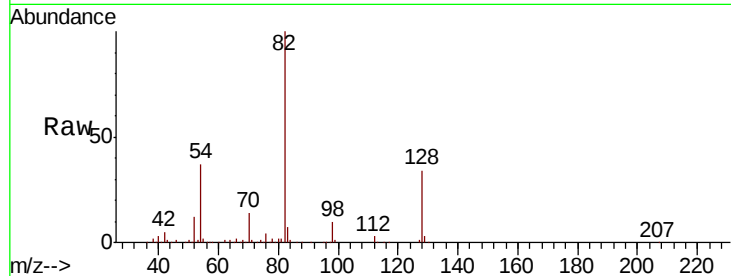




#23
 Nitrobenzene-d5
 Concen: 28.682 ng
 RT: 8.86 min Scan# 981
 Delta R.T. -0.03 min
 Lab File: BM018921.D
 Acq: 25 Feb 2019 19:48

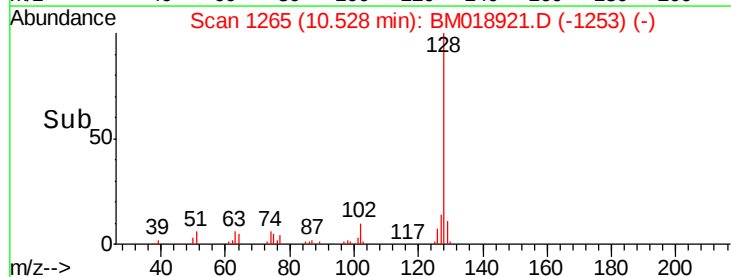
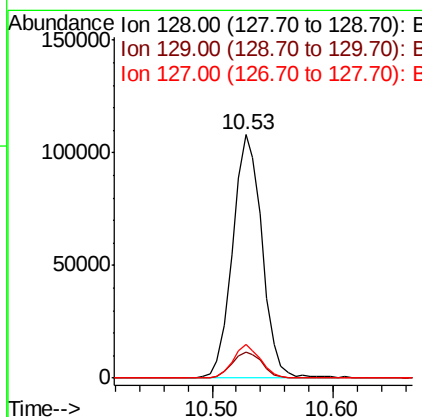
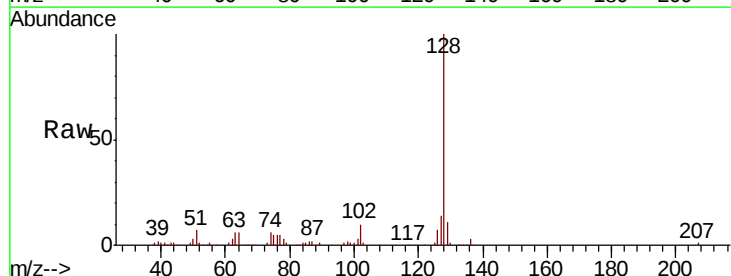
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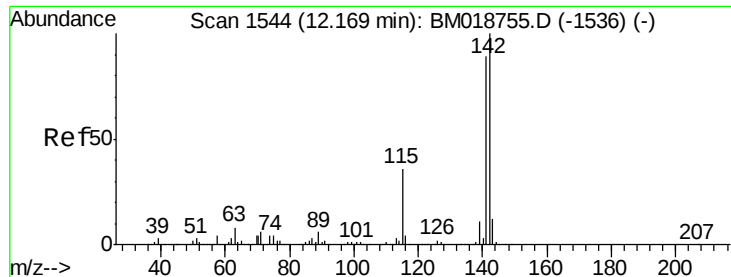
Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.4	29.9	44.9
54	36.7	29.1	43.7



#31
 Naphthalene
 Concen: 4.957 ng
 RT: 10.53 min Scan# 1265
 Delta R.T. -0.03 min
 Lab File: BM018921.D
 Acq: 25 Feb 2019 19:48

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	13.9	10.7	16.1

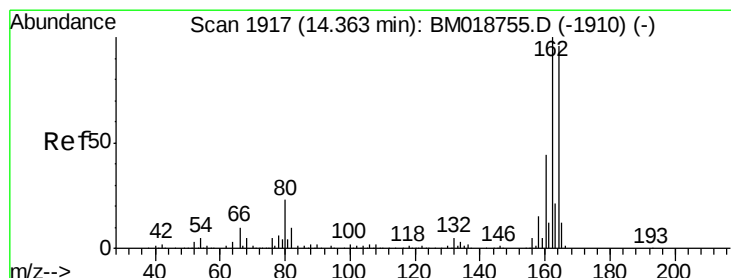
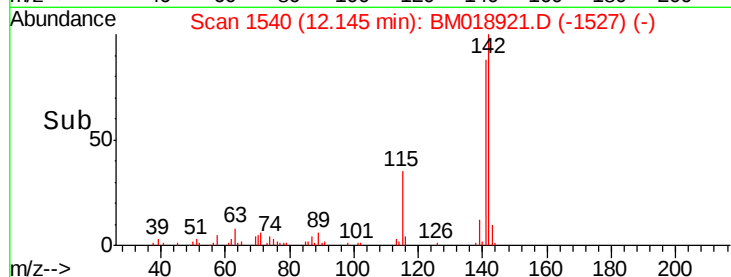
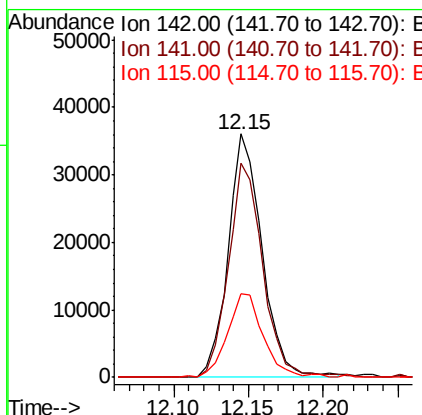
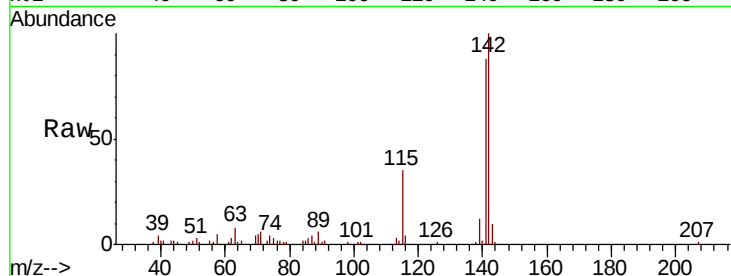




#37
2-Methylnaphthalene
Concen: 2.204 ng
RT: 12.15 min Scan# 1540
Delta R.T. -0.02 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

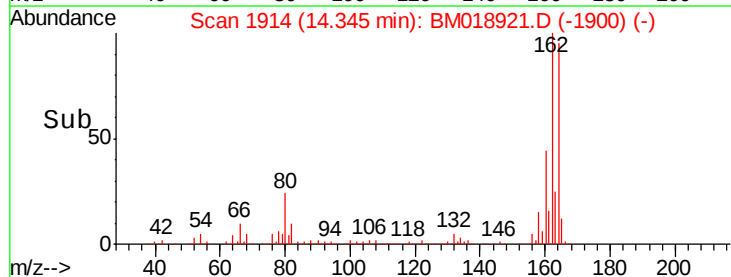
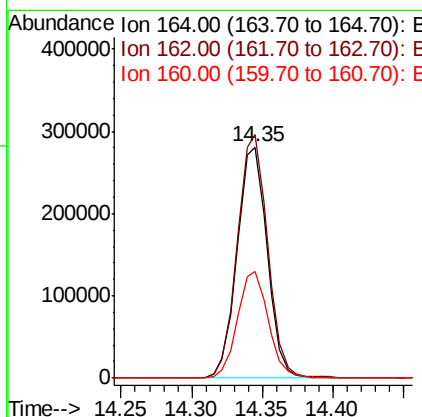
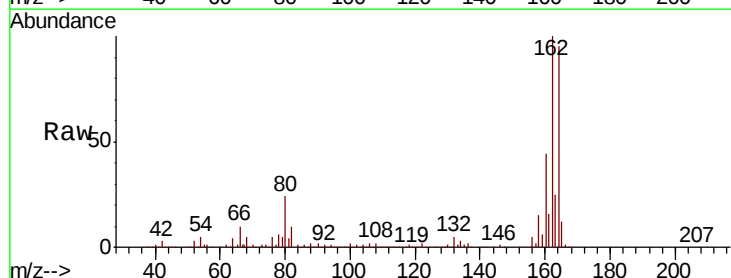
Instrument :
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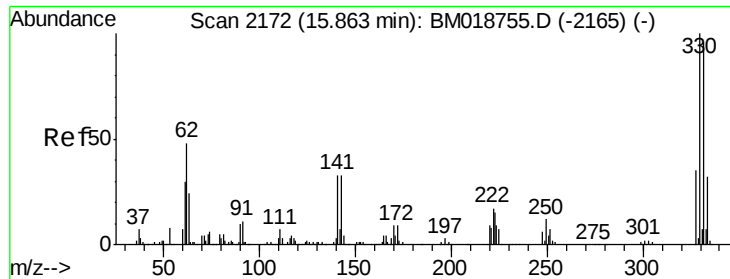
Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.2	106.8
115	34.6	29.1	43.7



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.35 min Scan# 1914
Delta R.T. -0.02 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	83.4	125.0
160	46.1	36.6	55.0

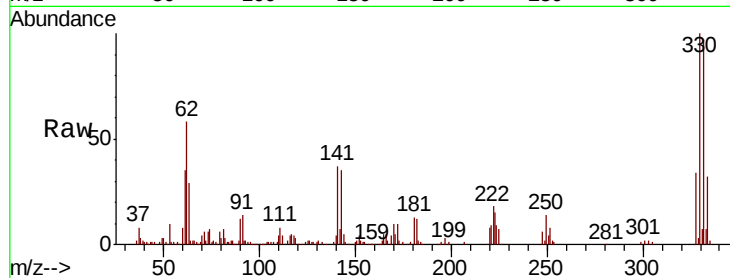




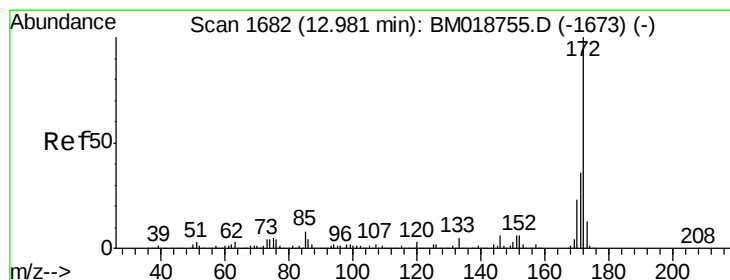
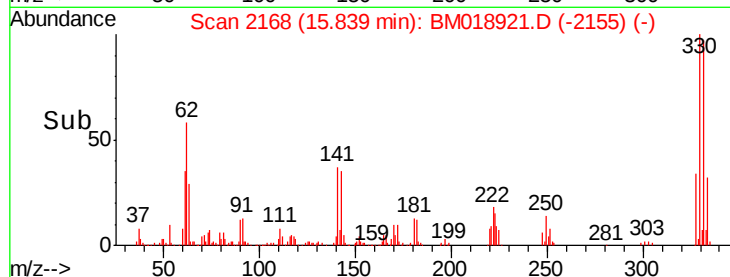
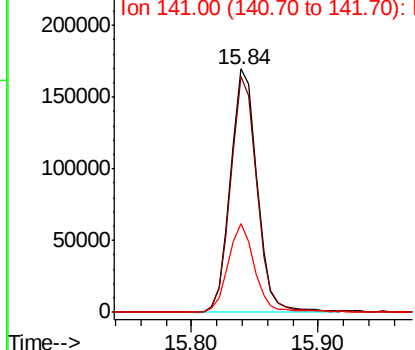
#42
 2,4,6-Tribromophenol
 Concen: 40.898 ng
 RT: 15.84 min Scan# 2168
 Delta R.T. -0.02 min
 Lab File: BM018921.D
 Acq: 25 Feb 2019 19:48

Instrument :
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 OK-03-022219-B

Tgt Ion:330 Resp: 246411
 Ion Ratio Lower Upper
 330 100
 332 96.0 76.9 115.3
 141 36.6 28.7 43.1

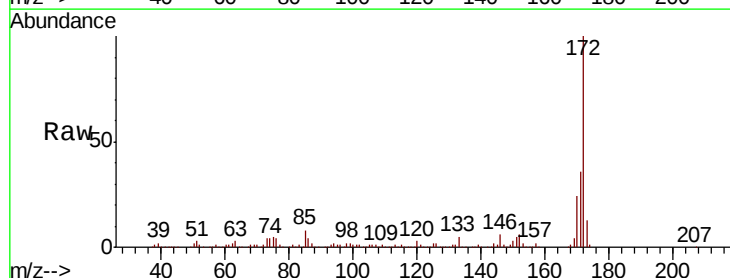


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

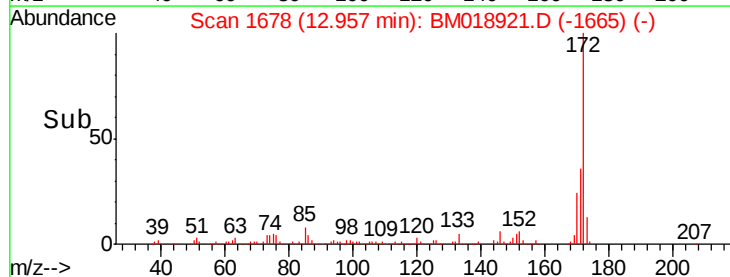
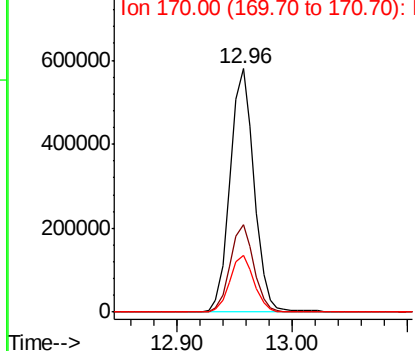


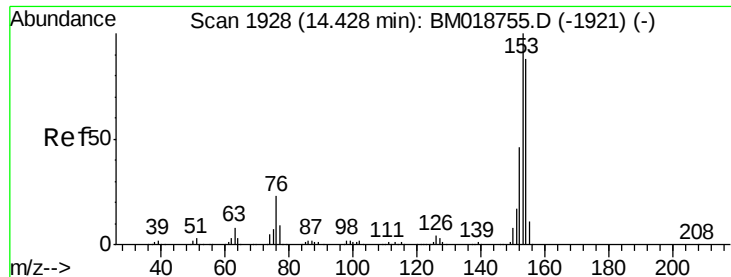
#45
 2-Fluorobiphenyl
 Concen: 26.581 ng
 RT: 12.96 min Scan# 1678
 Delta R.T. -0.02 min
 Lab File: BM018921.D
 Acq: 25 Feb 2019 19:48

Tgt Ion:172 Resp: 836962
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.0 43.6
 170 23.5 18.6 28.0



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#52

Acenaphthene

Concen: 4.162 ng

RT: 14.41 min Scan# 1925

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

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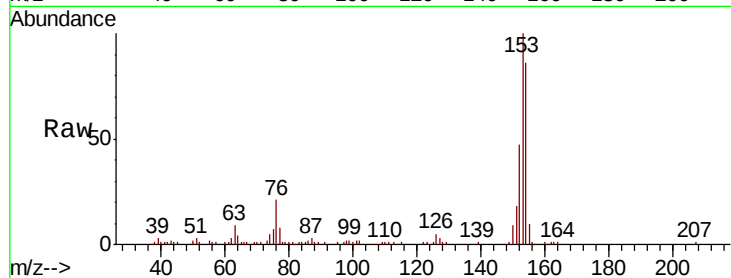
Tgt Ion:154 Resp: 105608

Ion Ratio Lower Upper

154 100

153 115.7 91.3 136.9

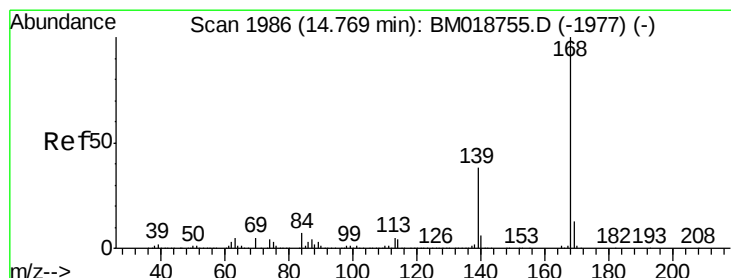
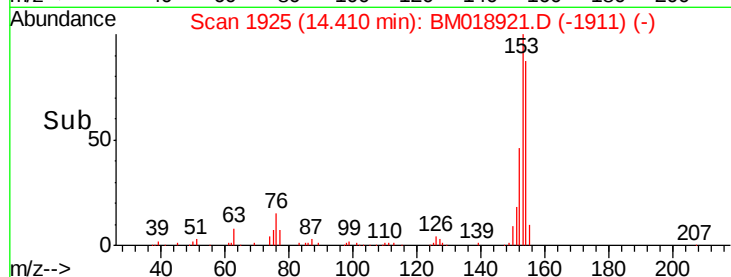
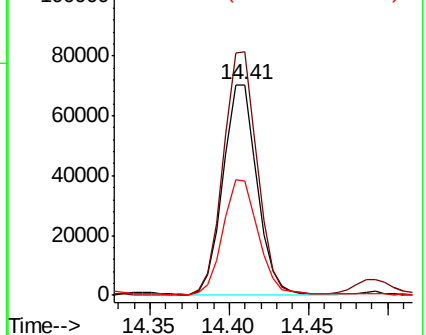
152 54.2 42.2 63.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 3.022 ng

RT: 14.75 min Scan# 1982

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

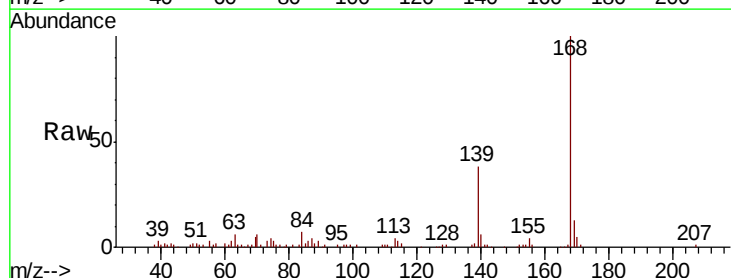
Tgt Ion:168 Resp: 126035

Ion Ratio Lower Upper

168 100

139 38.3 30.7 46.1

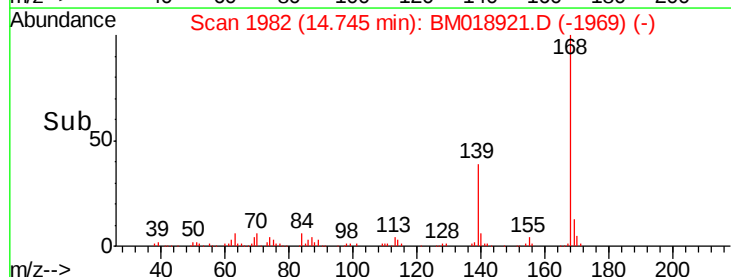
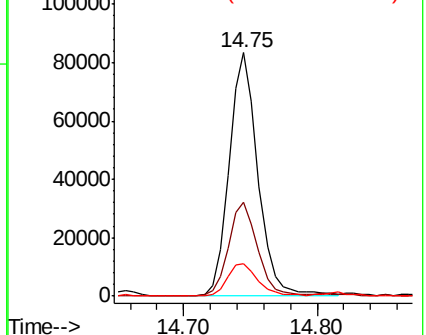
169 13.1 10.3 15.5

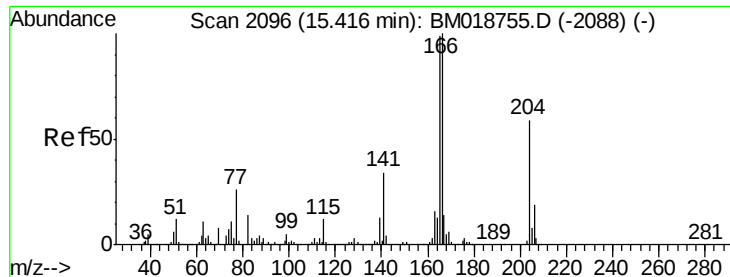


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 6.426 ng

RT: 15.40 min Scan# 2093

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

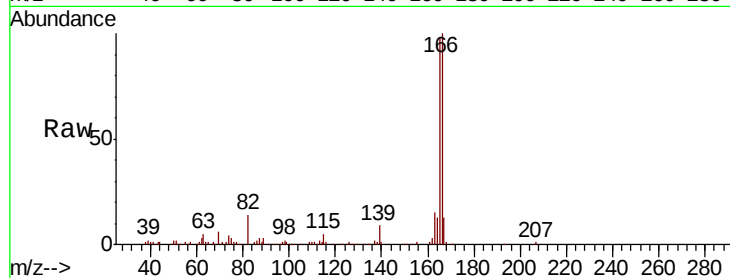
Tgt Ion:166 Resp: 205008

Ion Ratio Lower Upper

166 100

165 98.0 79.1 118.7

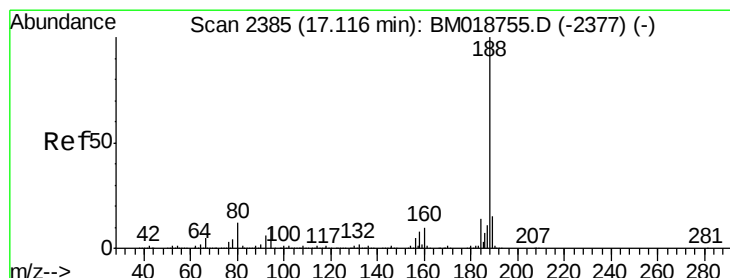
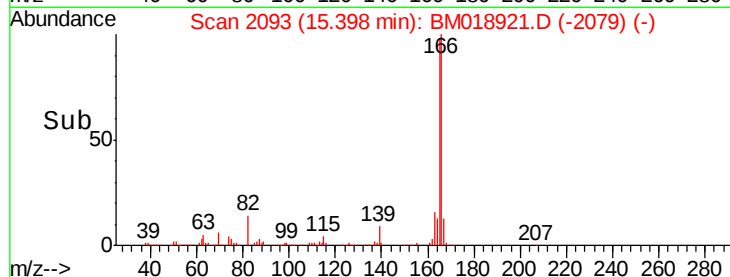
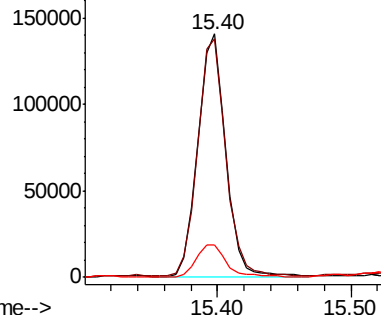
167 13.3 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.10 min Scan# 2382

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

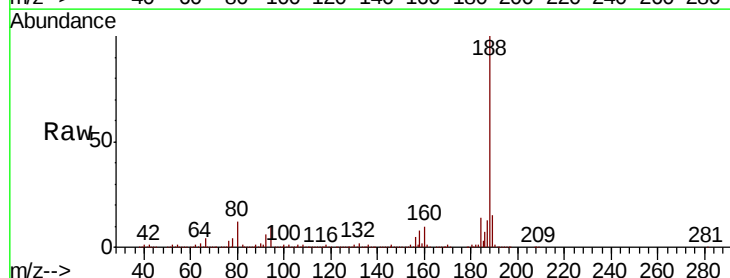
Tgt Ion:188 Resp: 938090

Ion Ratio Lower Upper

188 100

94 10.1 8.2 12.2

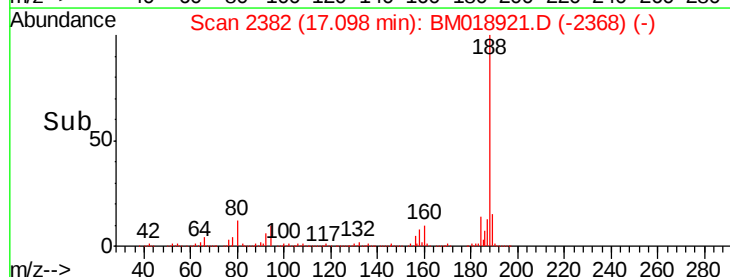
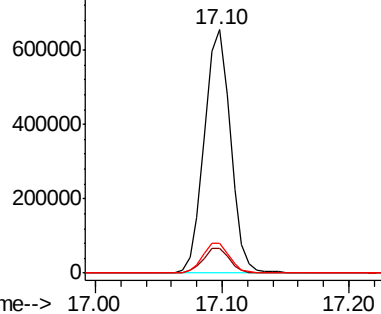
80 12.1 9.7 14.5

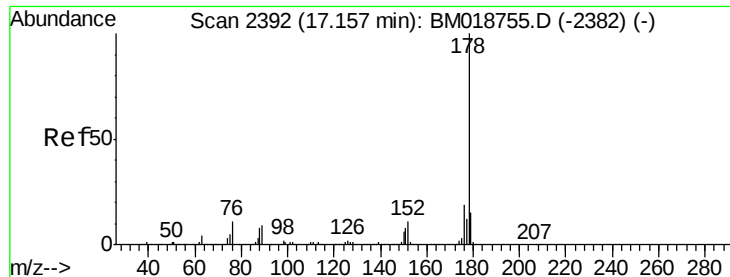


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0





#71

Phenanthrene

Concen: 31.765 ng

RT: 17.14 min Scan# 2389

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

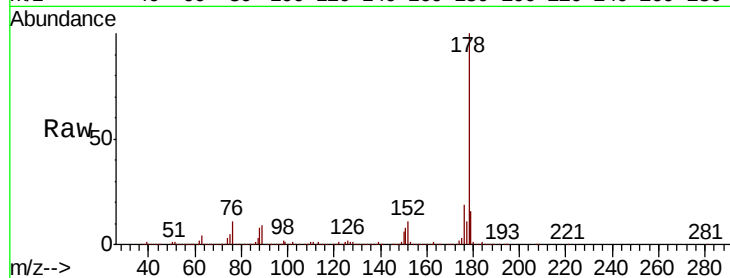
Tgt Ion:178 Resp: 1601435

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.0

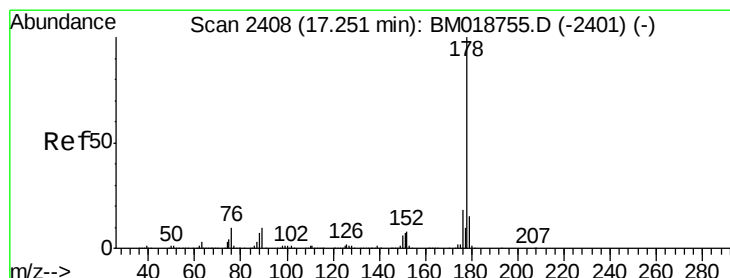
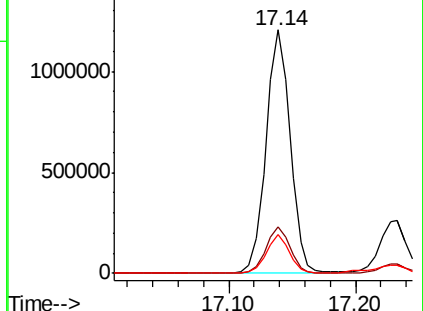
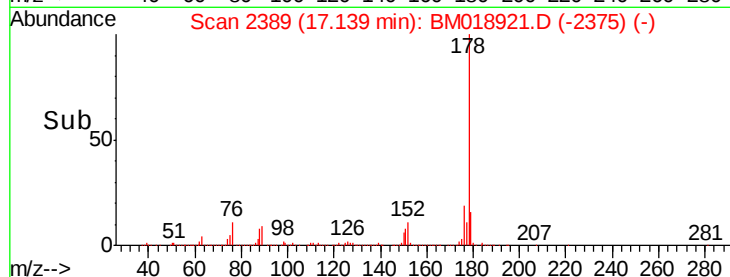
179 15.7 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 7.678 ng

RT: 17.23 min Scan# 2405

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

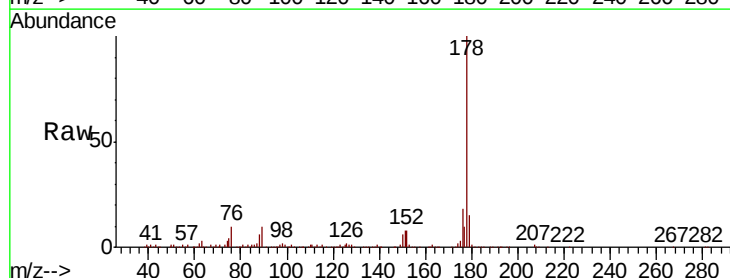
Tgt Ion:178 Resp: 376770

Ion Ratio Lower Upper

178 100

176 18.1 14.8 22.2

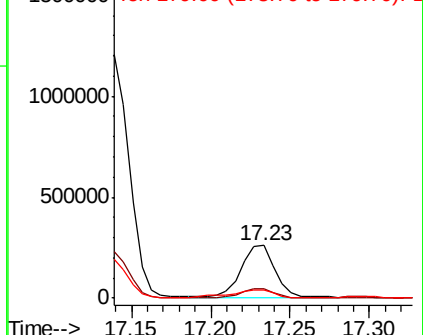
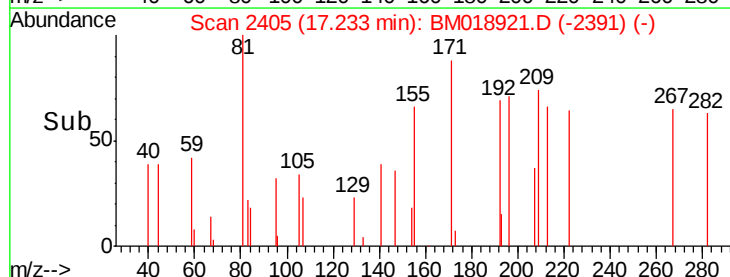
179 15.0 12.1 18.1

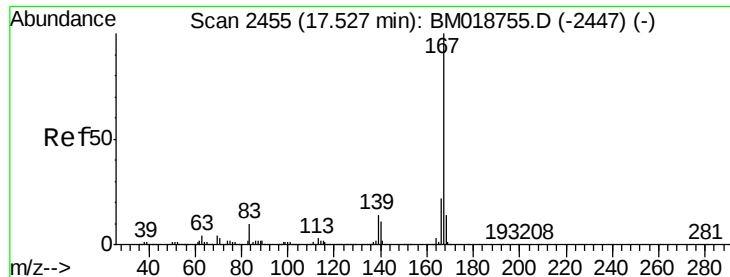


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 2.100 ng

RT: 17.51 min Scan# 2452

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

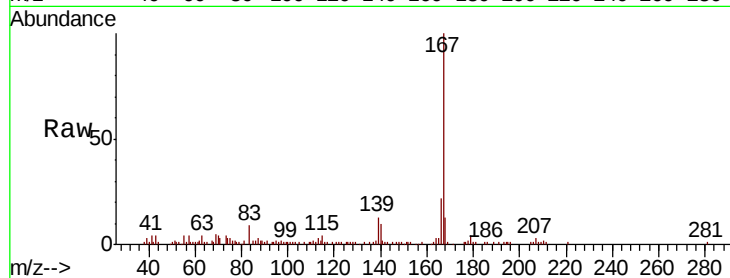
Tgt Ion:167 Resp: 107643

Ion Ratio Lower Upper

167 100

166 22.1 17.7 26.5

139 12.8 10.9 16.3

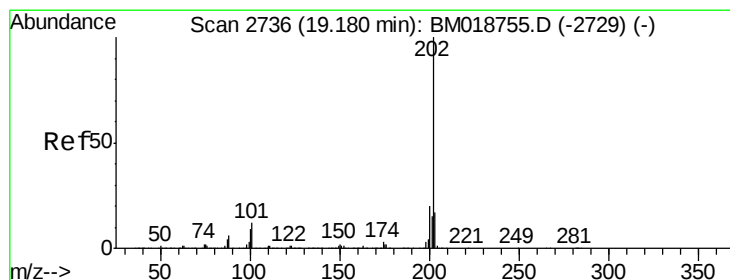
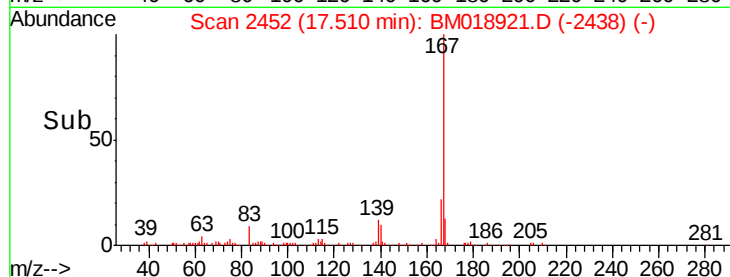
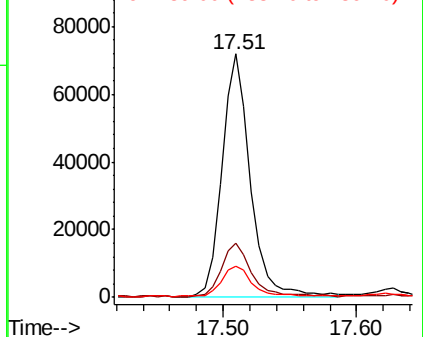


Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 30.598 ng

RT: 19.16 min Scan# 2733

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

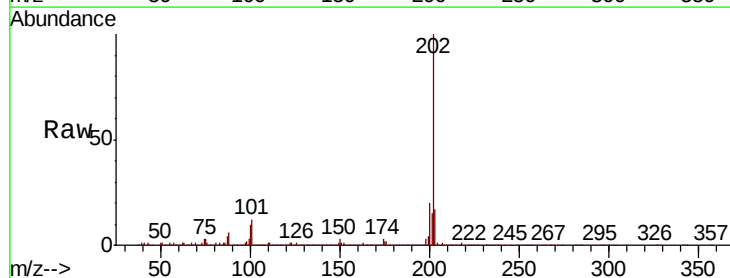
Tgt Ion:202 Resp: 1781868

Ion Ratio Lower Upper

202 100

101 12.3 0.0 31.5

203 17.2 0.0 37.3

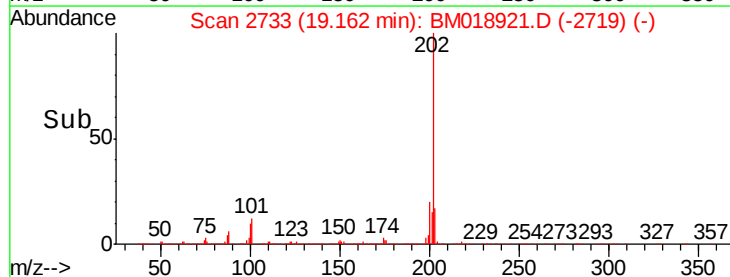
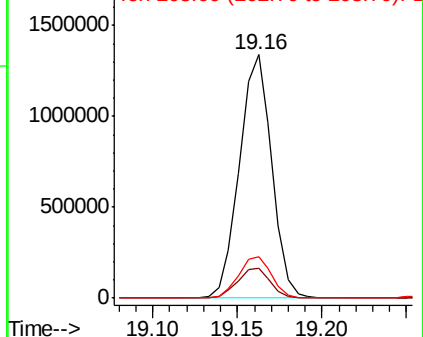


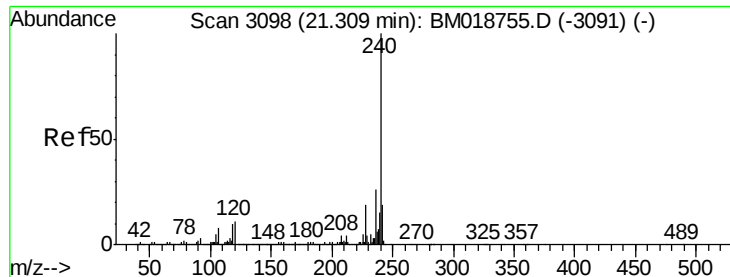
Abundance

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: 21.29 min Scan# 3095

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

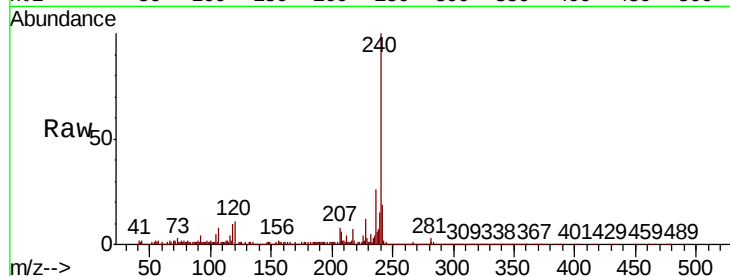
Tgt Ion:240 Resp: 1006351

Ion Ratio Lower Upper

240 100

120 11.0 8.9 13.3

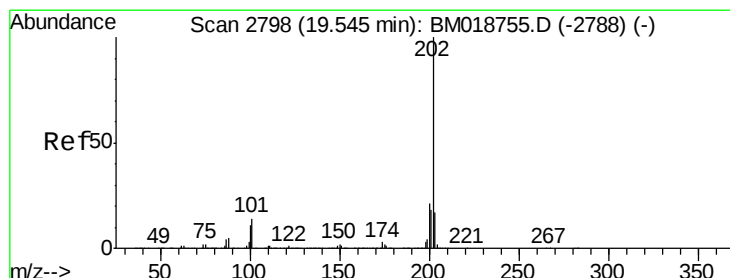
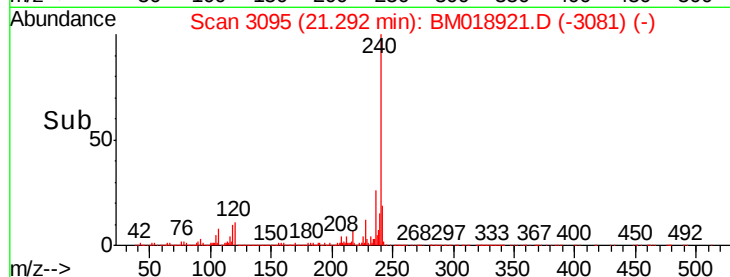
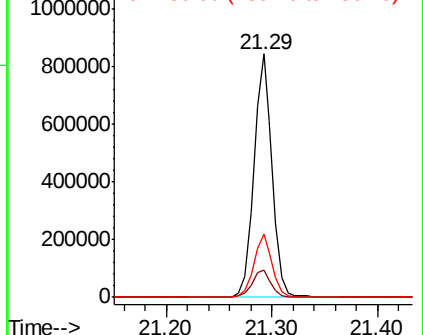
236 25.8 20.9 31.3



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: 24.329 ng

RT: 19.53 min Scan# 2795

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

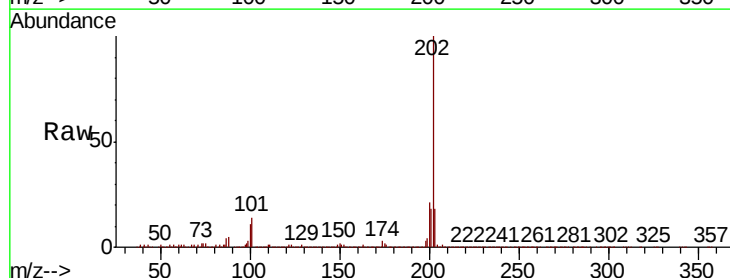
Tgt Ion:202 Resp: 1421986

Ion Ratio Lower Upper

202 100

200 20.9 16.9 25.3

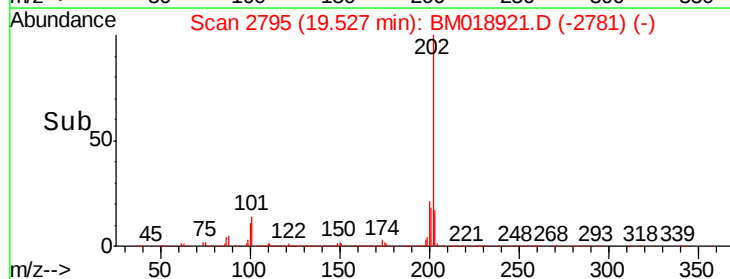
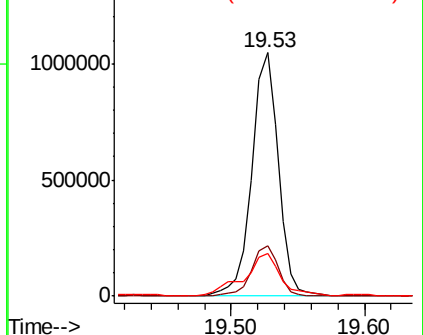
203 17.5 13.8 20.8

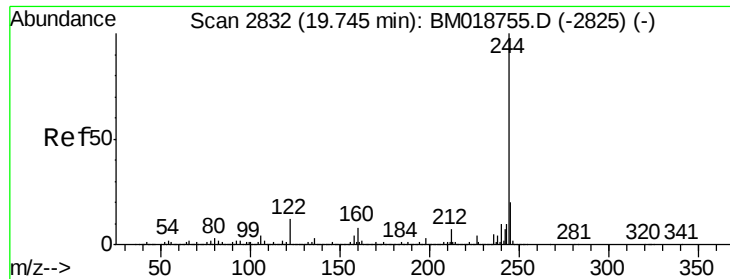


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 24.601 ng

RT: 19.73 min Scan# 2829

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

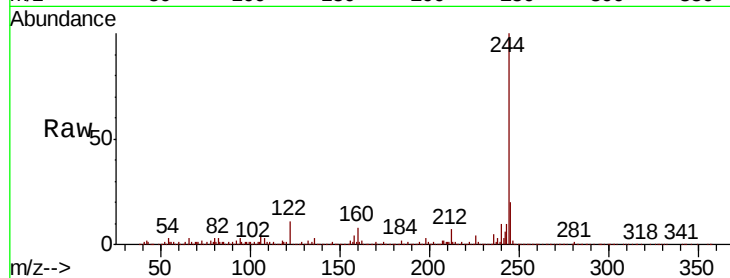
Tgt Ion:244 Resp: 1200116

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

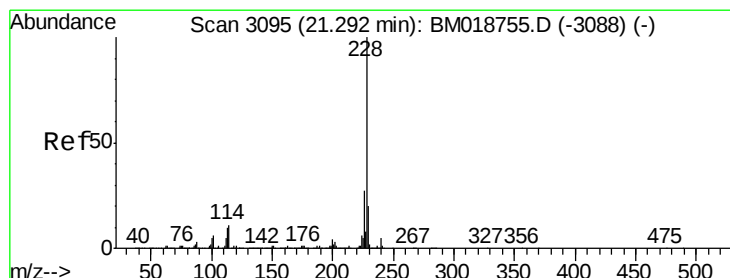
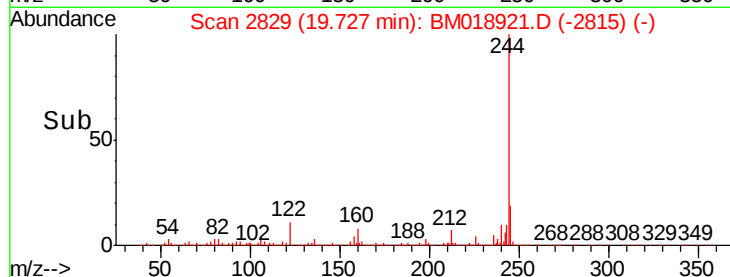
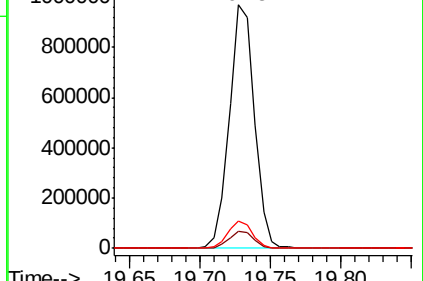
122 11.4 9.3 13.9



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: 12.584 ng

RT: 21.27 min Scan# 3092

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

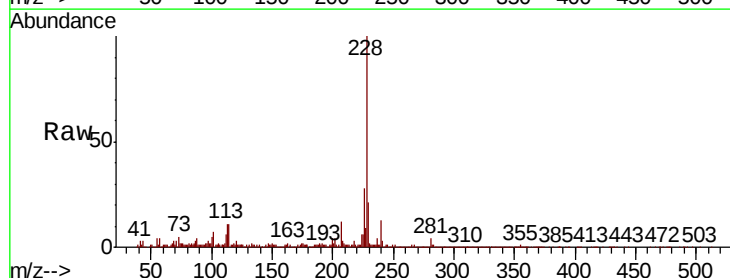
Tgt Ion:228 Resp: 738184

Ion Ratio Lower Upper

228 100

226 27.9 21.9 32.9

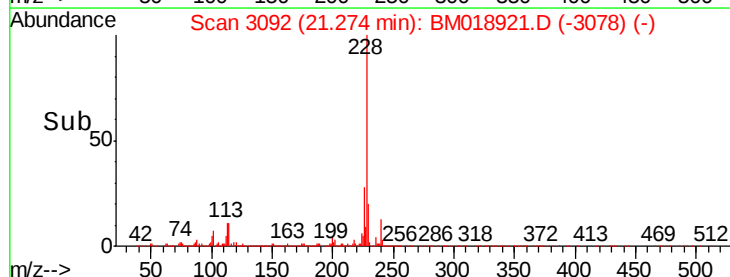
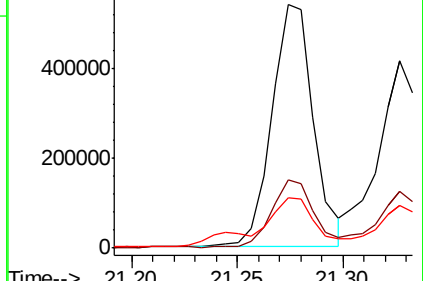
229 20.7 15.9 23.9

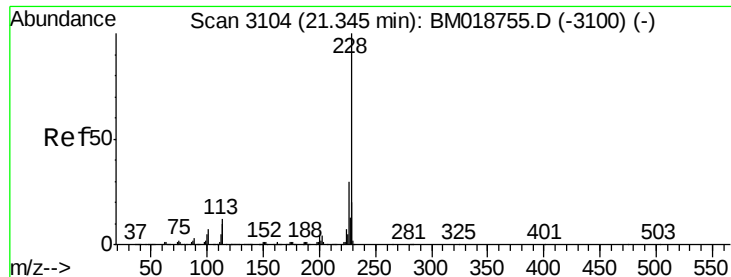


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 10.309 ng

RT: 21.33 min Scan# 3101

Delta R.T. -0.02 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

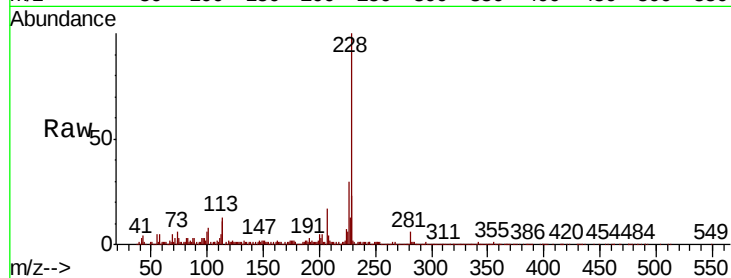
Tgt Ion:228 Resp: 579619

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

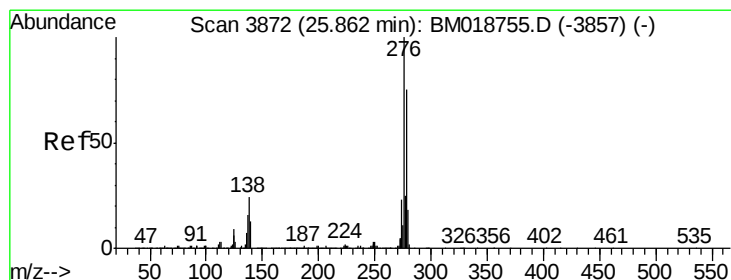
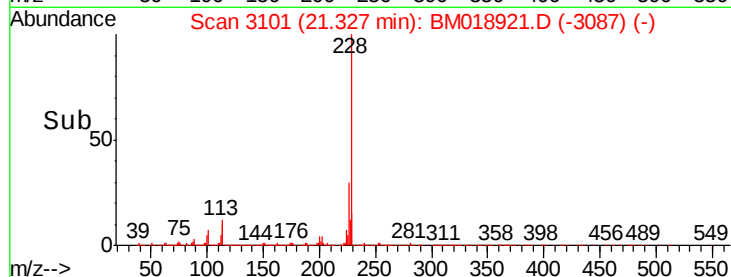
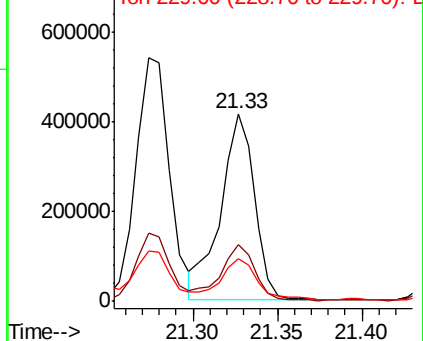
229 23.0 16.0 24.0



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: 5.703 ng

RT: 25.82 min Scan# 3865

Delta R.T. -0.04 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

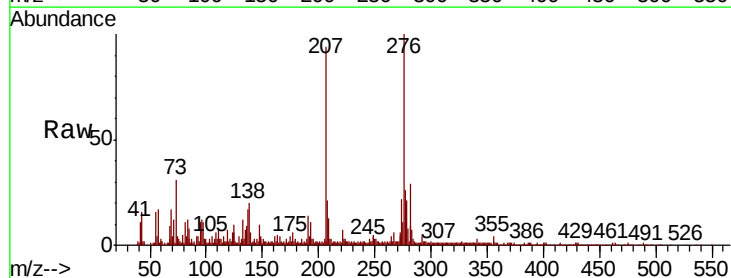
Tgt Ion:276 Resp: 370195

Ion Ratio Lower Upper

276 100

138 21.1 20.2 30.4

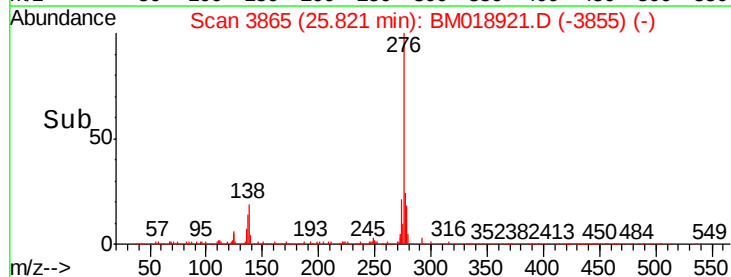
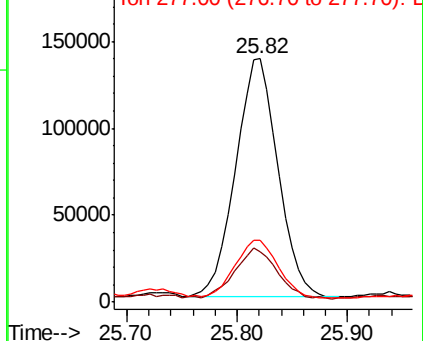
277 24.8 20.3 30.5

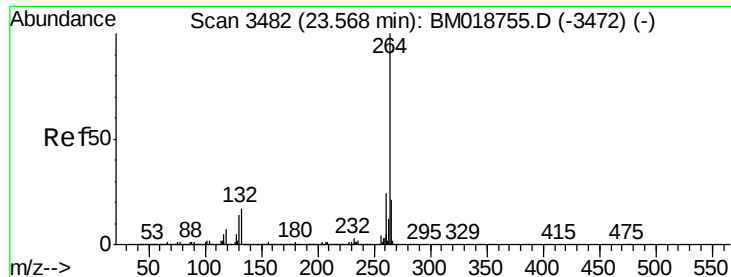


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



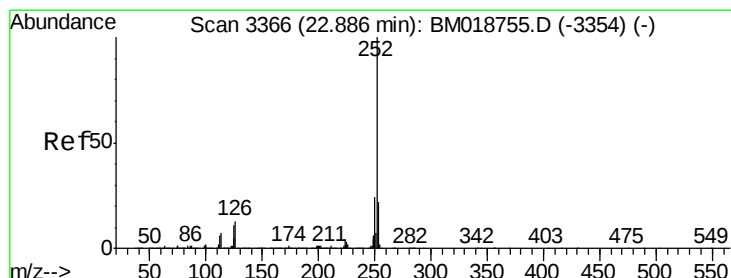
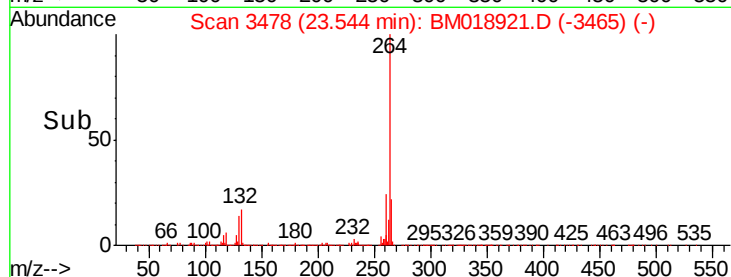
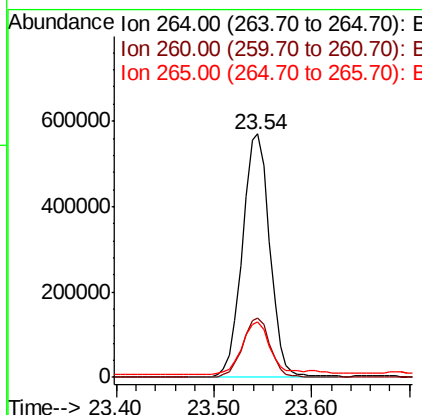
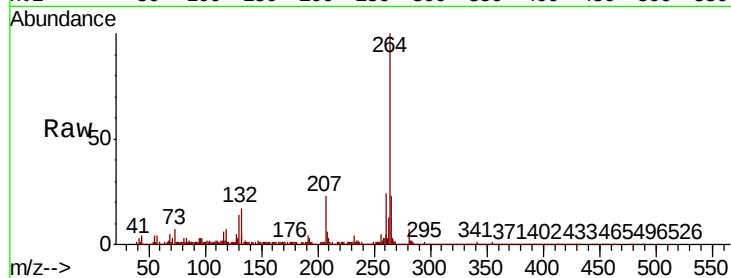


#87
Perylene-d12
Concen: 20.000 ng
RT: 23.54 min Scan# 3478
Delta R.T. -0.02 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

Instrument :
BNA_M
ClientSampleId :
OK-03-022219-B

Tgt Ion:264 Resp: 1104014

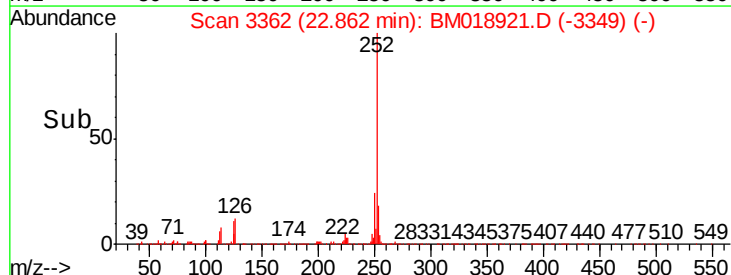
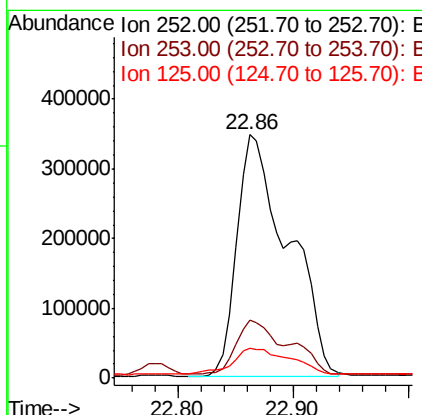
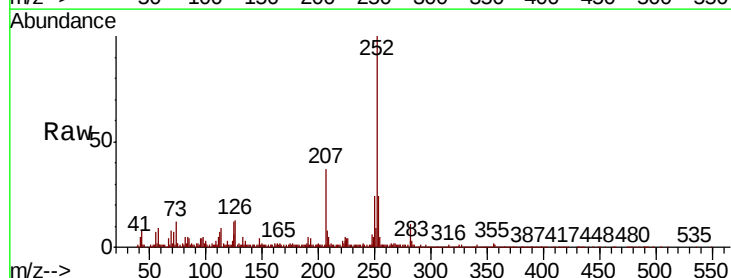
Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.9	28.3
265	22.7	17.3	25.9

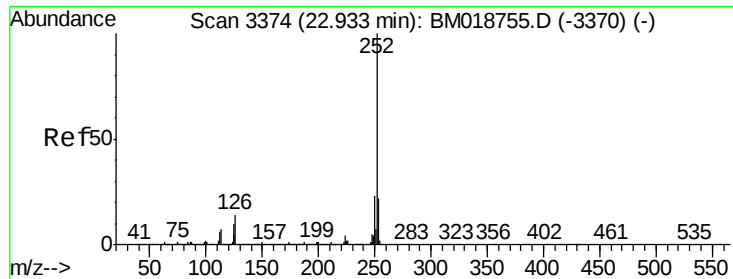


#88
Benzo(b)fluoranthene
Concen: 16.888 ng
RT: 22.86 min Scan# 3362
Delta R.T. -0.02 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

Tgt Ion:252 Resp: 1066712

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.6
125	12.5	8.6	12.8

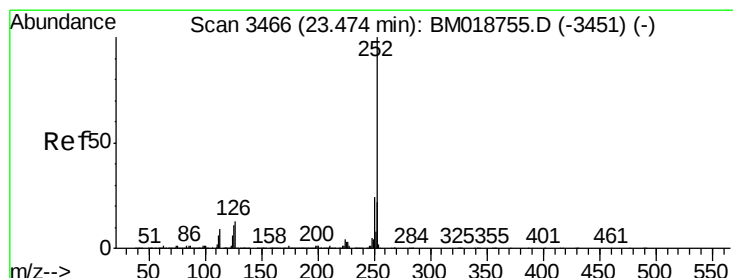
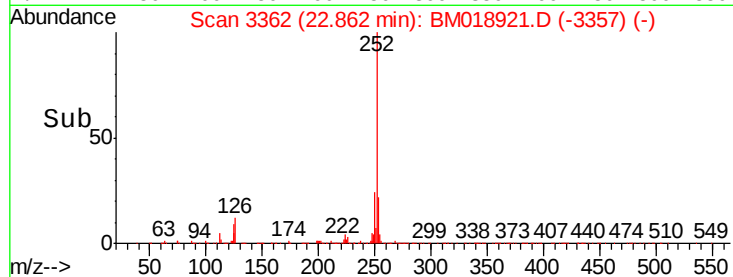
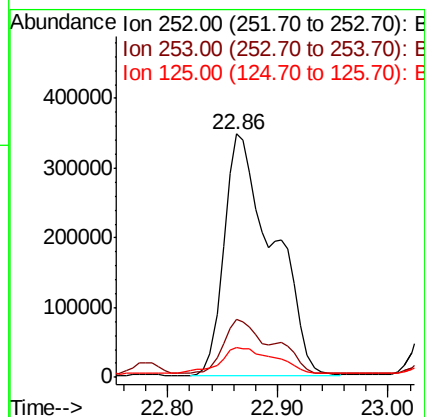
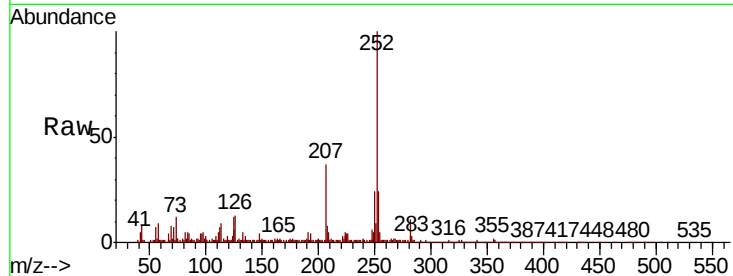




#89
Benzo(k)fluoranthene
Concen: 16.949 ng
RT: 22.86 min Scan# 3362
Delta R.T. -0.07 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

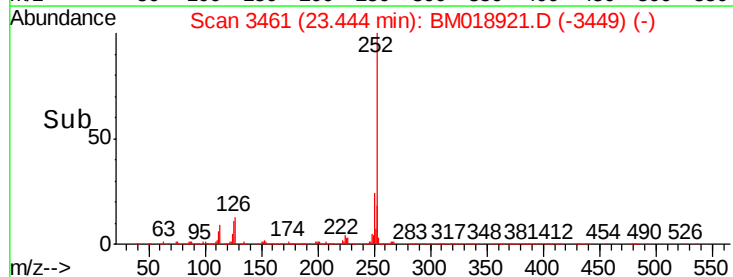
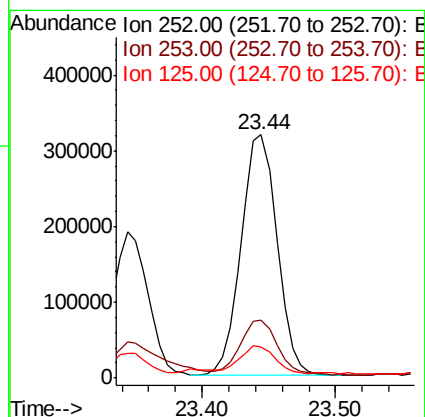
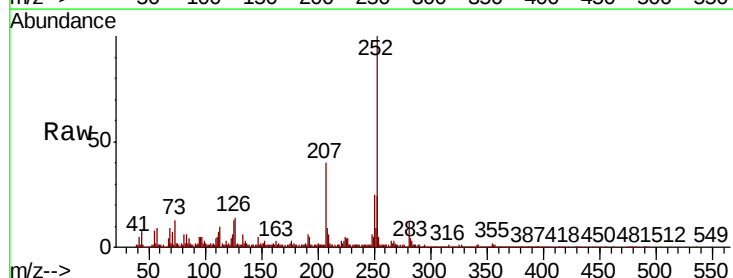
Instrument :
BNA_M
ClientSampleId :
OK-03-022219-B

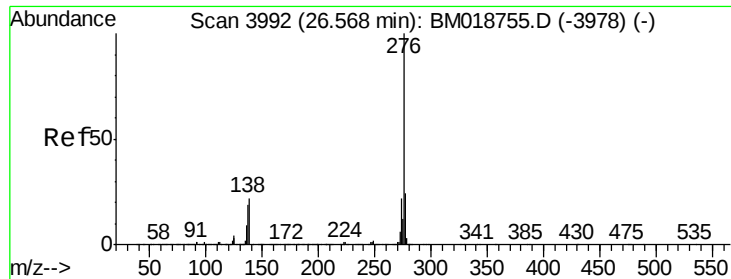
Tgt Ion:252 Resp: 1065807
Ion Ratio Lower Upper
252 100
253 23.6 17.7 26.5
125 12.5 8.2 12.4#



#90
Benzo(a)pyrene
Concen: 9.955 ng
RT: 23.44 min Scan# 3461
Delta R.T. -0.03 min
Lab File: BM018921.D
Acq: 25 Feb 2019 19:48

Tgt Ion:252 Resp: 595661
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.0
125 12.7 8.6 13.0





#92

Benzo(g,h,i)perylene

Concen: 5.998 ng

RT: 26.52 min Scan# 3984

Delta R.T. -0.05 min

Lab File: BM018921.D

Acq: 25 Feb 2019 19:48

Instrument :

BNA_M

ClientSampleId :

OK-03-022219-B

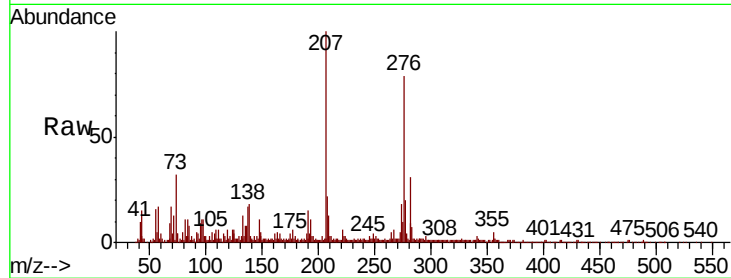
Tgt Ion: 276 Resp: 331043

Ion Ratio Lower Upper

276 100

277 24.6 19.2 28.8

138 22.5 17.3 25.9



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

