

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF011518\
 Data File : BF102065.D
 Acq On : 15 Jan 2018 16:20
 Operator : SJ/JU
 Sample : J1134-02 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB23-W

Quant Time: Jan 15 17:30:29 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 11 12:53:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	198230	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	820717	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	355642	20.00	ng	-0.01
63) Phenanthrene-d10	11.23	188	567398	20.00	ng	-0.01
75) Chrysene-d12	13.87	240	292314	20.00	ng	-0.01
86) Perylene-d12	15.28	264	354745	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	14232	1.01	ng	-0.01
7) Phenol-d6	6.34	99	16401	0.98	ng	-0.02
23) Nitrobenzene-d5	7.27	82	9714	0.70	ng	-0.02
41) 2,4,6-Tribromophenol	10.53	330	2516	0.81	ng	-0.02
44) 2-Fluorobiphenyl	9.07	172	19052	0.84	ng	-0.02
78) Terphenyl-d14	12.82	244	13601	0.97	ng	-0.02

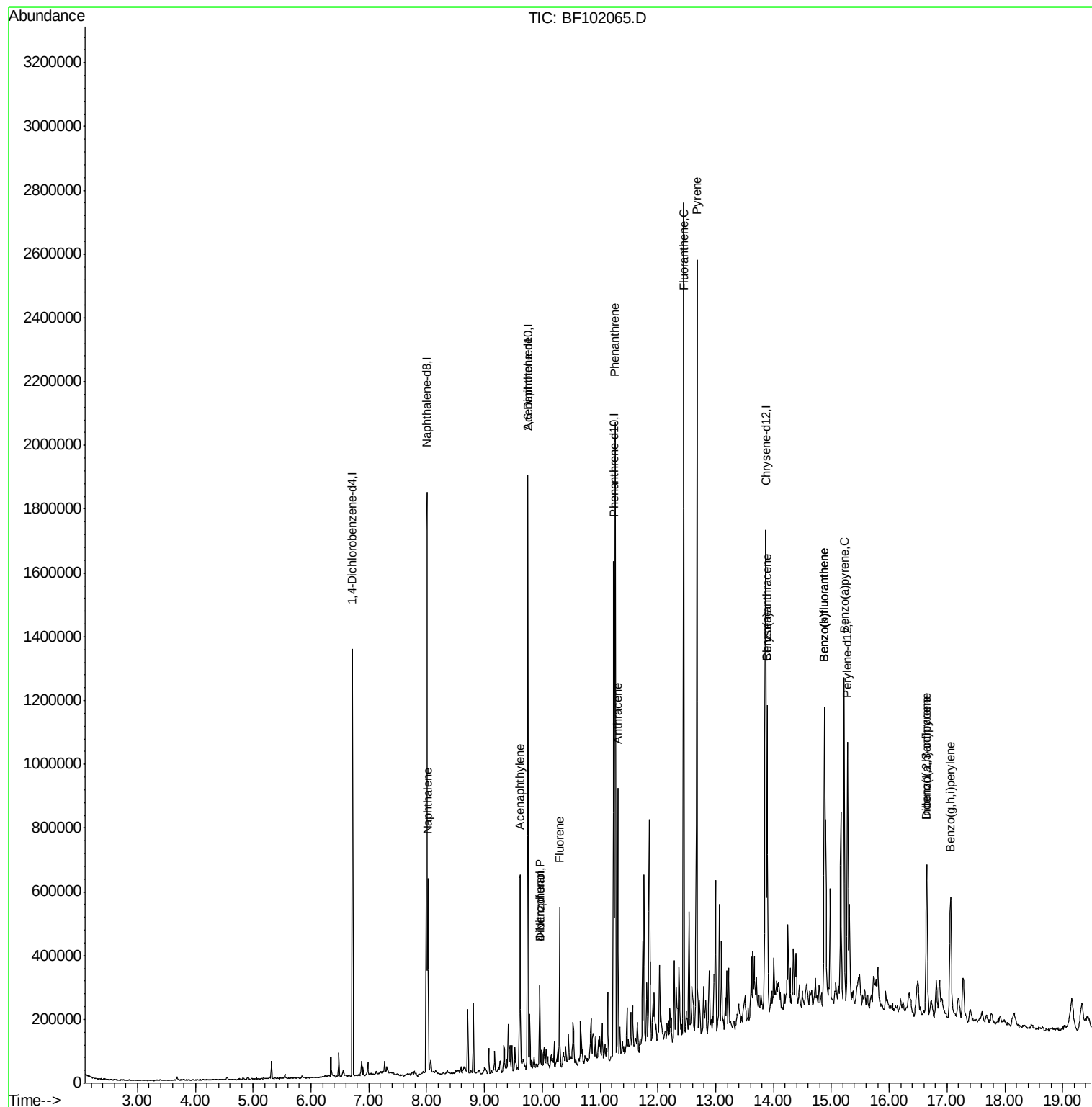
Target Compounds				Qvalue		
31) Naphthalene	8.02	128	223322	5.446	ng	99
48) Acenaphthylene	9.62	152	243004	6.282	ng	96
50) 2,6-Dinitrotoluene	9.75	165	48540	8.517	ng	# 26
54) Dibenzofuran	9.96	168	75704	2.349	ng	99
55) 4-Nitrophenol	9.96	139	28226	5.266	ng	# 11
57) Fluorene	10.30	166	126880	5.696	ng	97
70) Phenanthrene	11.26	178	752914	22.717	ng	98
71) Anthracene	11.31	178	275396	8.193	ng	99
74) Fluoranthene	12.45	202	977361	29.972	ng	99
77) Pyrene	12.67	202	915075	35.415	ng	99
80) Benzo(a)anthracene	13.89	228	323905	17.367	ng	95
82) Chrysene	13.89	228	323905	16.655	ng	99
85) Indeno(1,2,3-cd)pyrene	16.65	276	288119	20.355	ng	97
87) Benzo(b)fluoranthene	14.88	252	694291	30.016	ng	# 96
88) Benzo(k)fluoranthene	14.88	252	694291	31.115	ng	99
89) Benzo(a)pyrene	15.22	252	439677	21.124	ng	# 96
90) Dibenzo(a,h)anthracene	16.66	278	71692	4.316	ng	# 86
91) Benzo(g,h,i)perylene	17.06	276	275760	16.481	ng	94

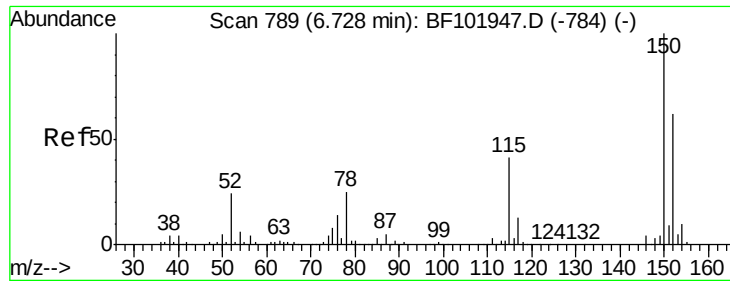
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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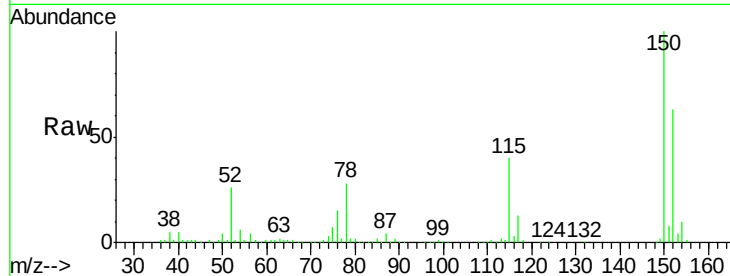


#1

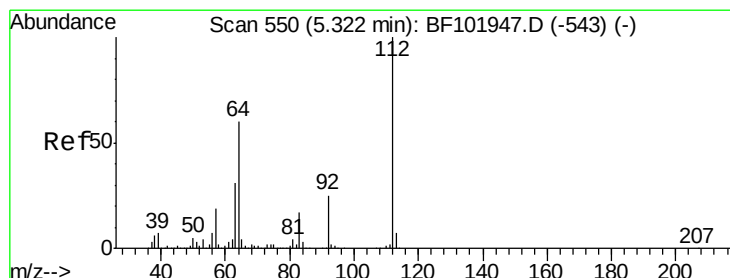
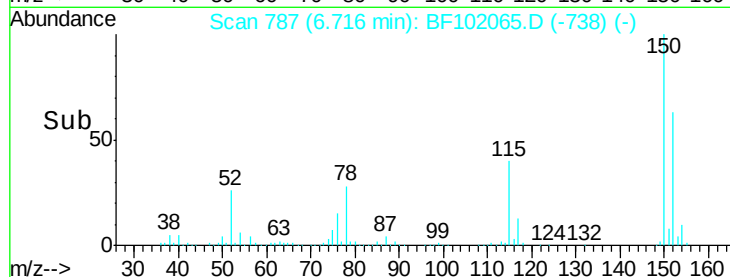
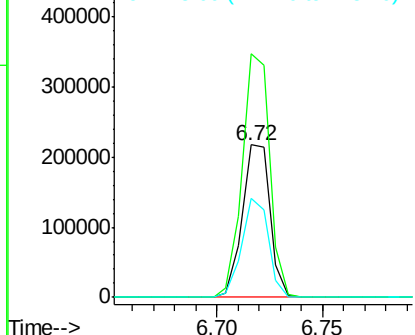
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Instrument :
BNA_F
ClientSampleId :
A2-SB23-W

Tgt Ion:152 Resp: 198230
Ion Ratio Lower Upper
152 100
150 160.0 124.6 186.8
115 64.6 50.1 75.1



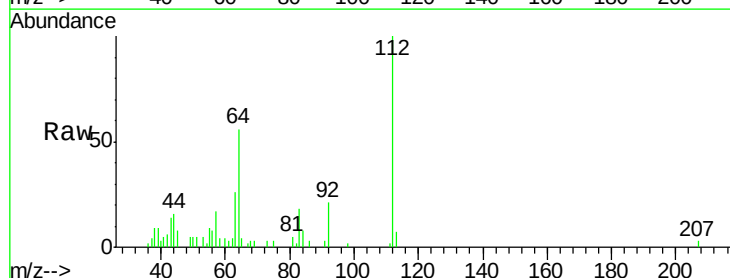
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



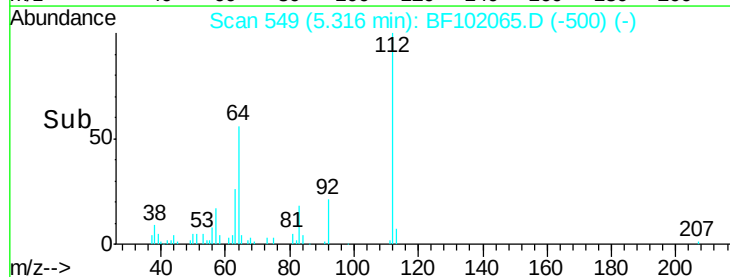
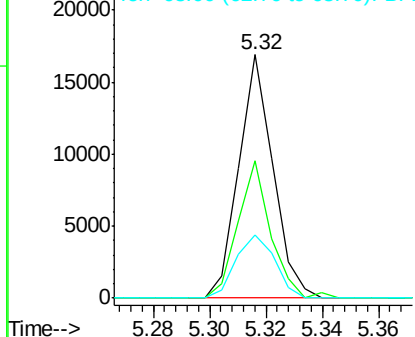
#5

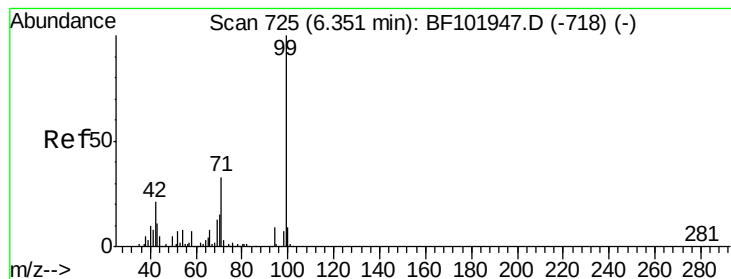
2-Fluorophenol
Concen: 1.014 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Tgt Ion:112 Resp: 14232
Ion Ratio Lower Upper
112 100
64 56.4 47.9 71.9
63 26.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 0.979 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

Instrument :

BNA_F

ClientSampleId :

A2-SB23-W

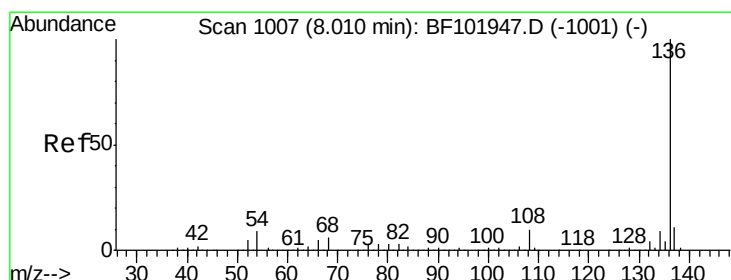
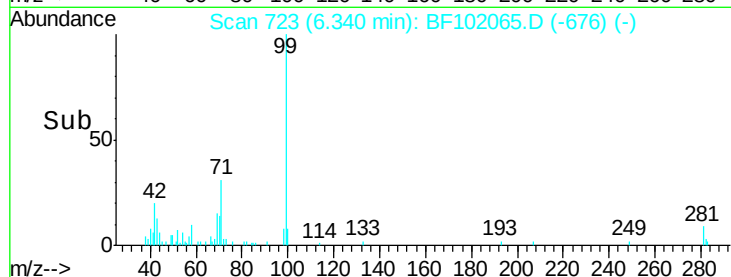
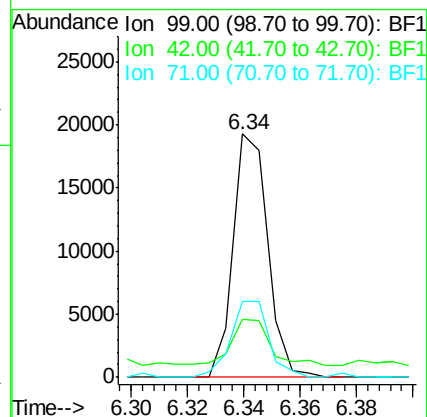
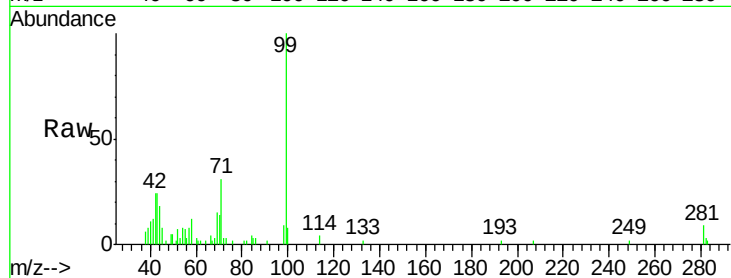
Tgt Ion: 99 Resp: 16401

Ion Ratio Lower Upper

99 100

42 24.1 14.5 21.7#

71 31.4 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

Tgt Ion: 136 Resp: 820717

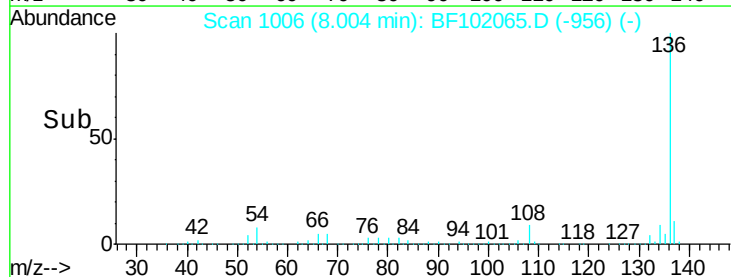
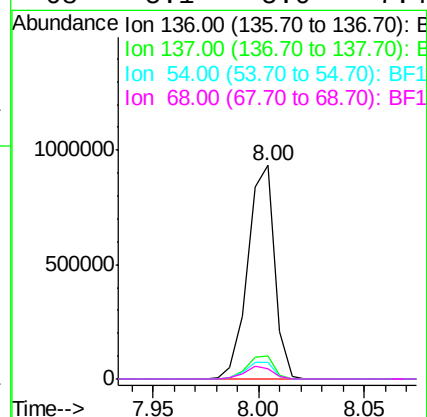
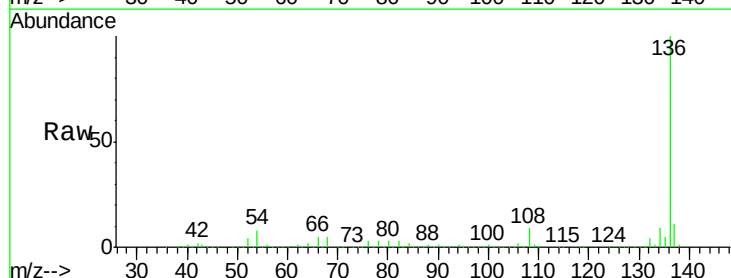
Ion Ratio Lower Upper

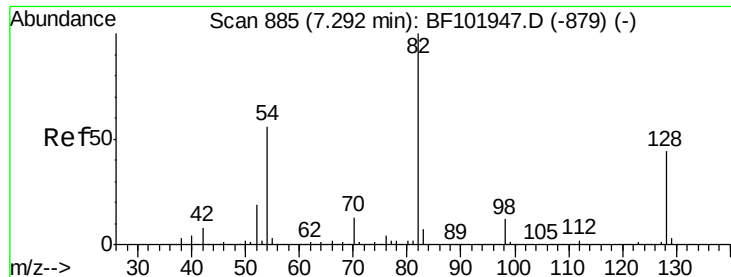
136 100

137 10.8 8.9 13.3

54 7.7 6.6 9.8

68 5.1 5.0 7.4

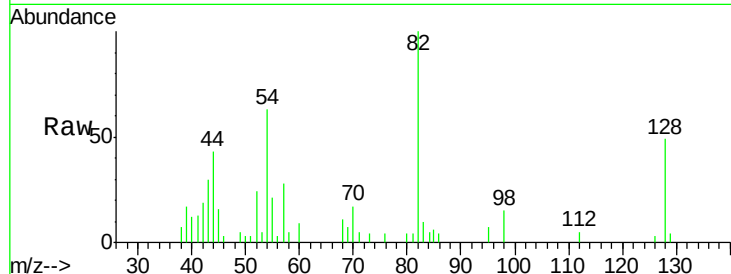




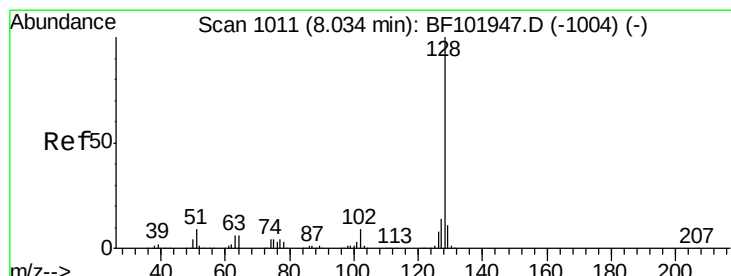
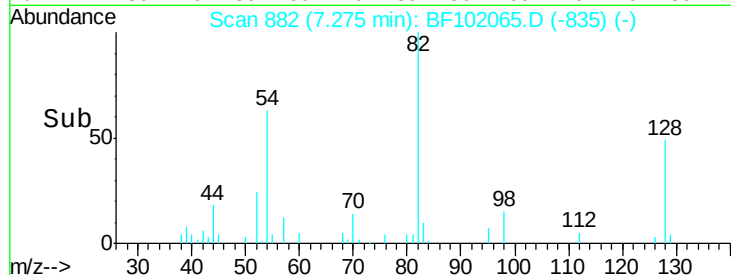
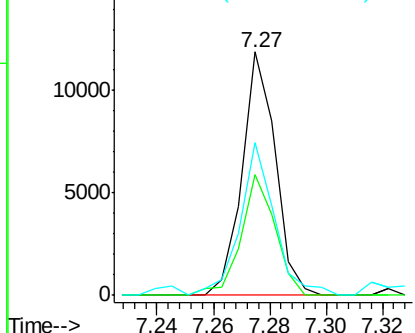
#23
 Nitrobenzene-d5
 Concen: 0.696 ng
 RT: 7.27 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BF102065.D
 Acq: 15 Jan 2018 16:20

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB23-W

Tgt Ion: 82 Resp: 9714
 Ion Ratio Lower Upper
 82 100
 128 49.4 36.1 54.1
 54 62.7 41.4 62.2#

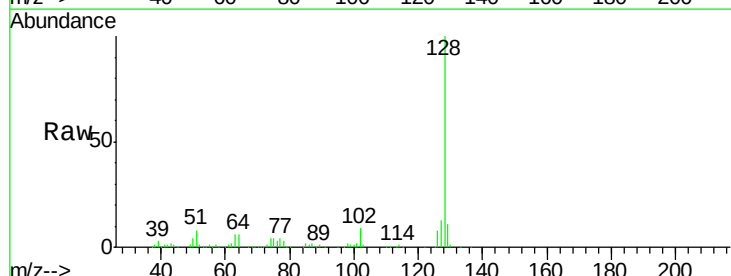


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

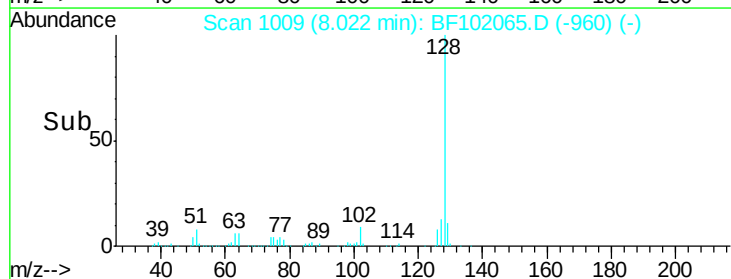
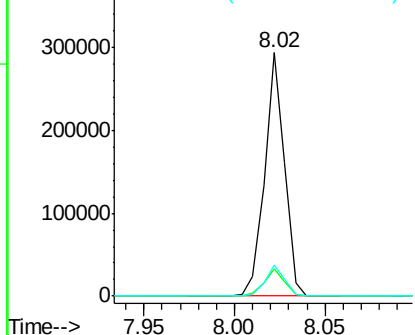


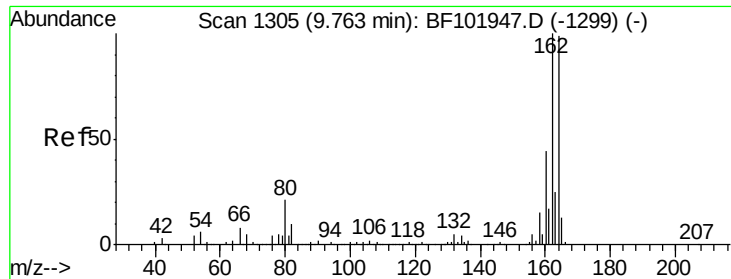
#31
 Naphthalene
 Concen: 5.446 ng
 RT: 8.02 min Scan# 1009
 Delta R.T. -0.01 min
 Lab File: BF102065.D
 Acq: 15 Jan 2018 16:20

Tgt Ion: 128 Resp: 223322
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.8 13.2
 127 13.0 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

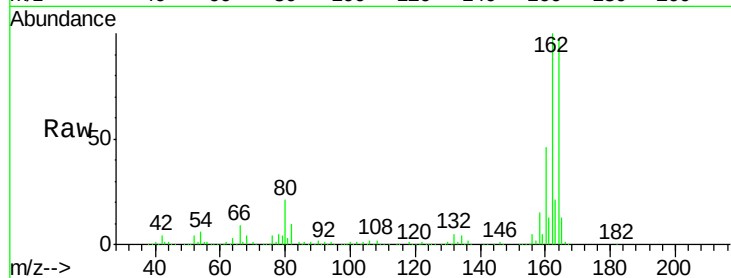




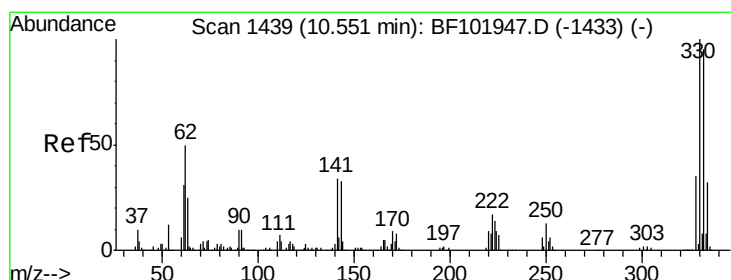
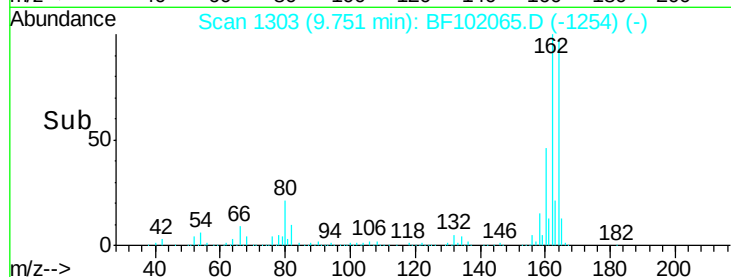
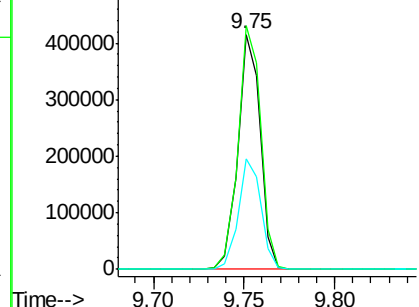
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF102065.D
 Acq: 15 Jan 2018 16:20

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB23-W

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	86.1	129.1
160	47.2	38.3	57.5

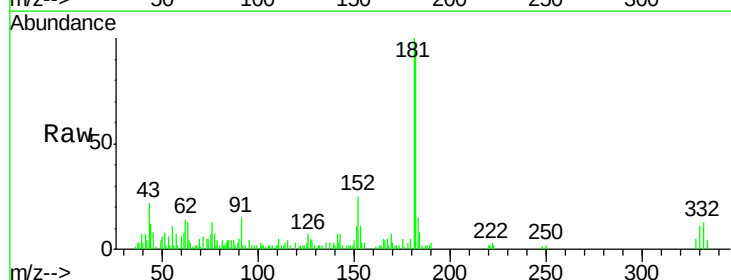


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

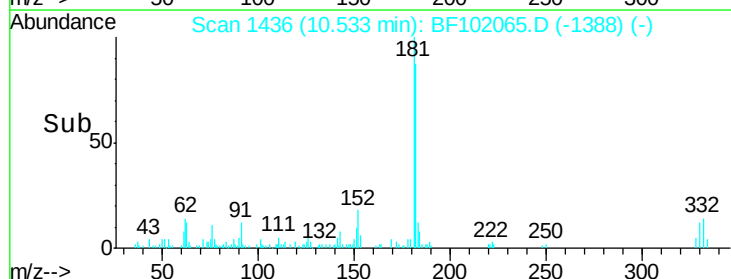
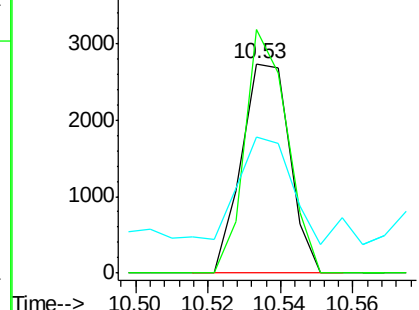


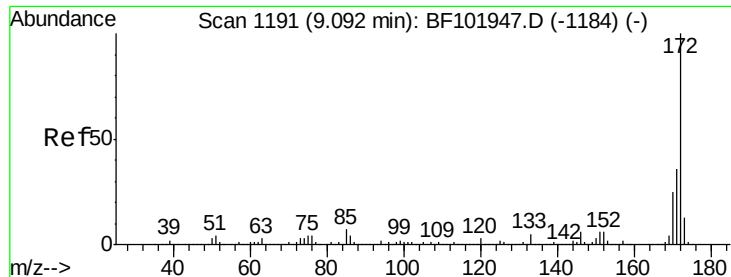
#41
 2,4,6-Tribromophenol
 Concen: 0.811 ng
 RT: 10.53 min Scan# 1436
 Delta R.T. -0.02 min
 Lab File: BF102065.D
 Acq: 15 Jan 2018 16:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.8	77.0	115.6
141	64.2	29.9	44.9#



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

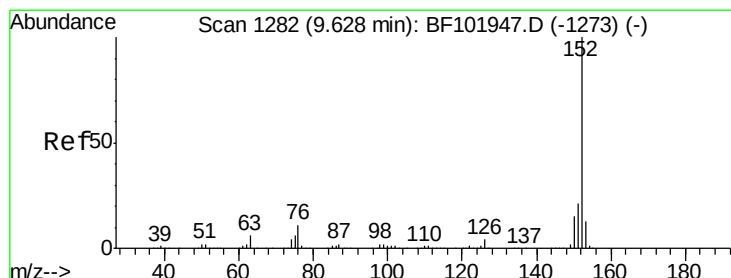
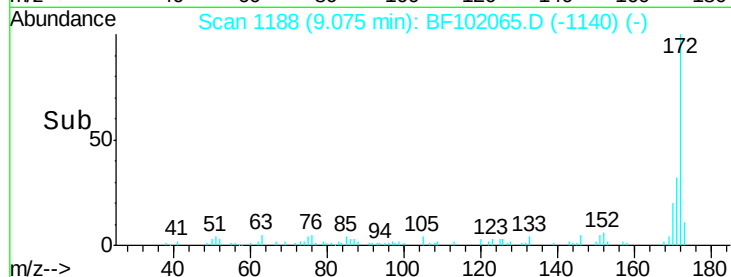
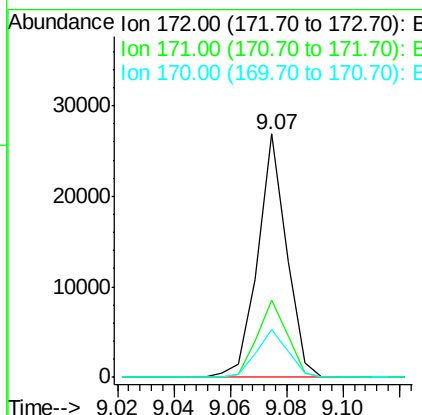
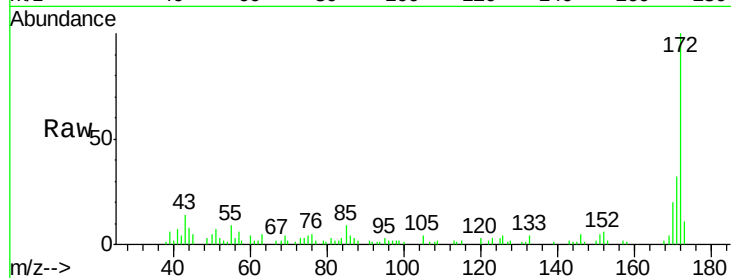




#44
2-Fluorobiphenyl
Concen: 0.837 ng
RT: 9.07 min Scan# 1188
Delta R.T. -0.02 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

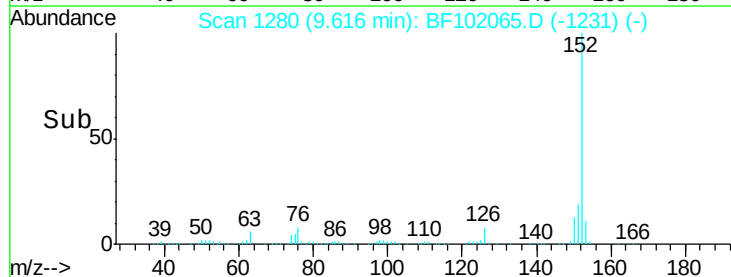
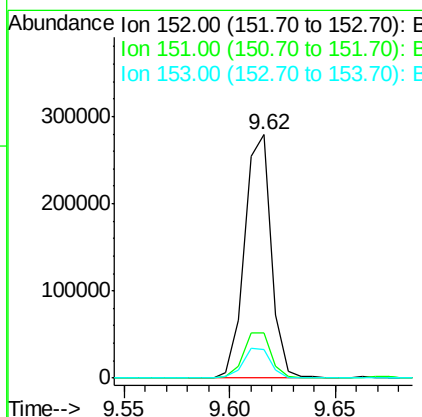
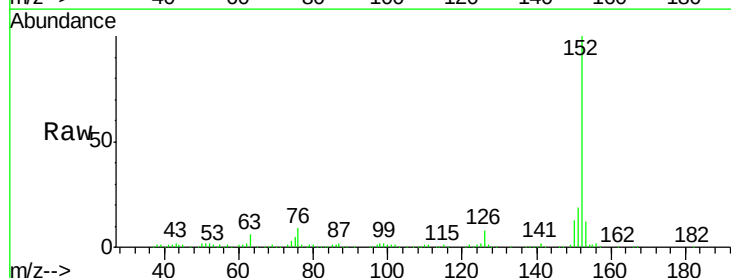
Instrument :
BNA_F
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A2-SB23-W

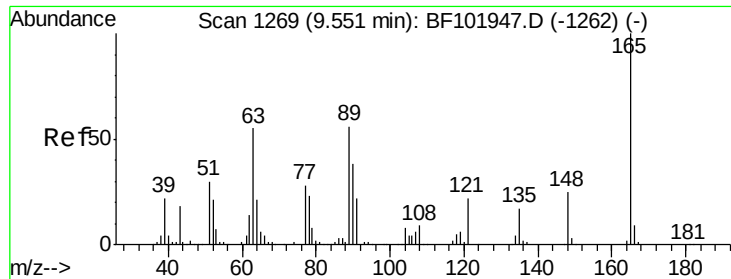
Tgt Ion:172 Resp: 19052
Ion Ratio Lower Upper
172 100
171 31.8 29.7 44.5
170 19.8 19.6 29.4



#48
Acenaphthylene
Concen: 6.282 ng
RT: 9.62 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Tgt Ion:152 Resp: 243004
Ion Ratio Lower Upper
152 100
151 18.8 16.3 24.5
153 11.6 10.7 16.1

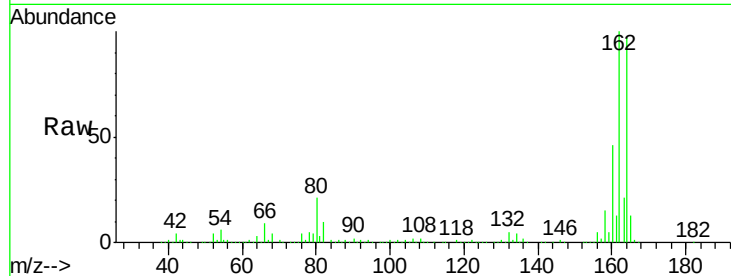




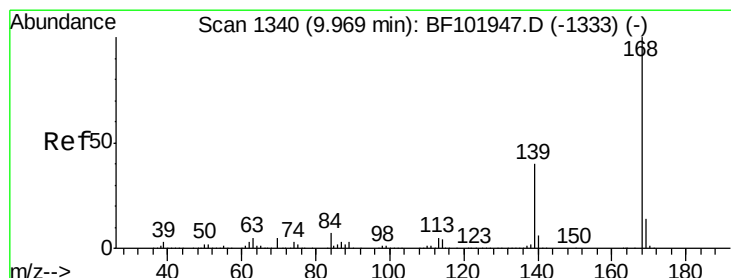
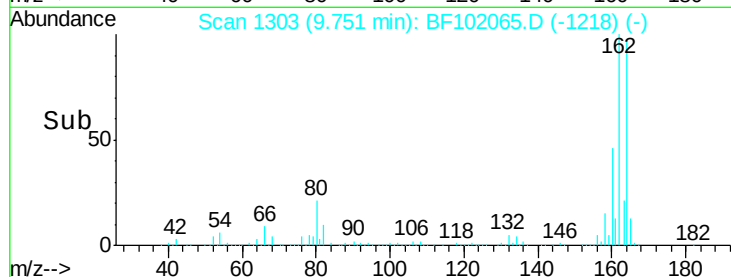
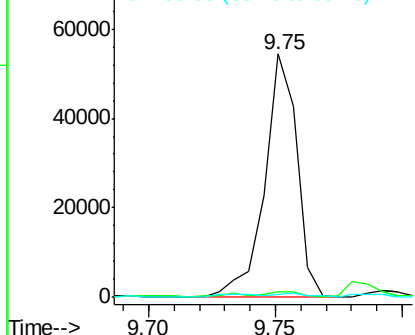
#50
2,6-Dinitrotoluene
Concen: 8.517 ng
RT: 9.75 min Scan# 1303
Delta R.T. 0.20 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Instrument :
BNA_F
ClientSampleId :
A2-SB23-W

Tgt Ion:165 Resp: 48540
Ion Ratio Lower Upper
165 100
63 2.1 44.7 67.1#
89 1.5 44.0 66.0#

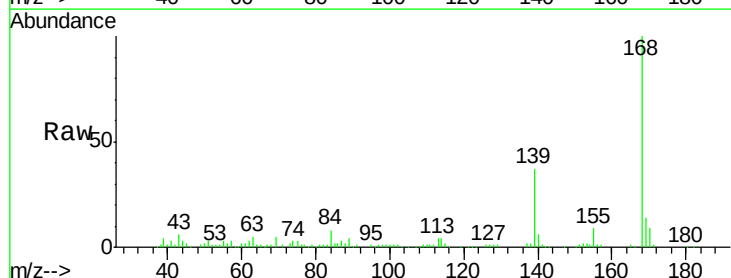


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

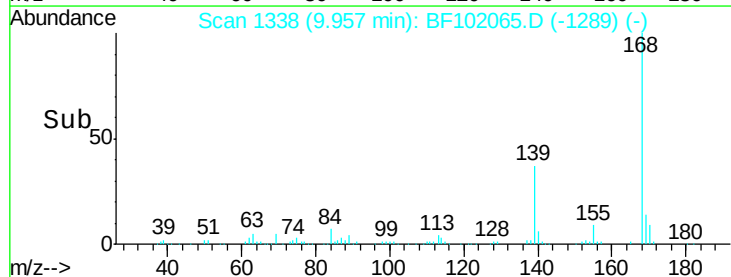
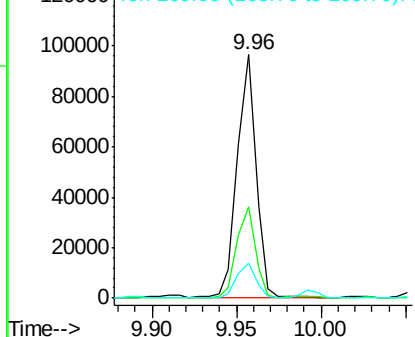


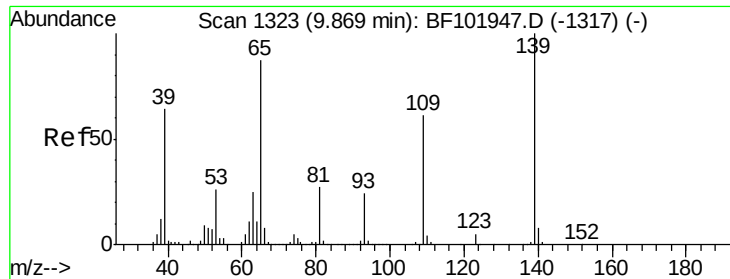
#54
Dibenzofuran
Concen: 2.349 ng
RT: 9.96 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Tgt Ion:168 Resp: 75704
Ion Ratio Lower Upper
168 100
139 37.4 30.1 45.1
169 14.3 10.9 16.3



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

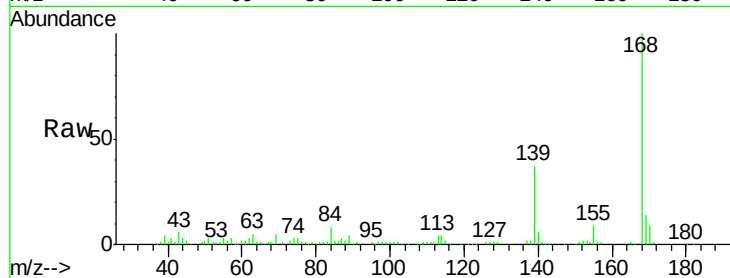




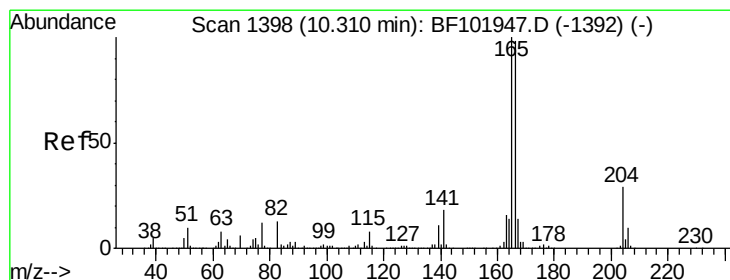
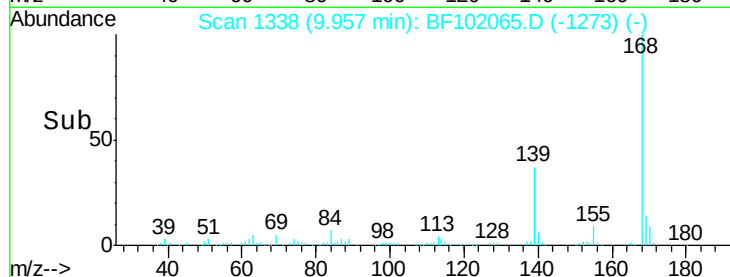
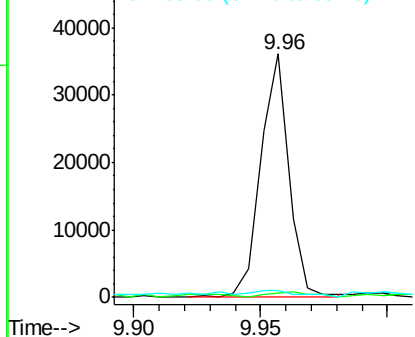
#55
4-Nitrophenol
Concen: 5.266 ng
RT: 9.96 min Scan# 1338
Delta R.T. 0.08 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Instrument :
BNA_F
ClientSampleId :
A2-SB23-W

Tgt Ion	Ratio	Lower	Upper
139	100		
109	1.8	48.4	88.4#
65	2.9	72.6	112.6#

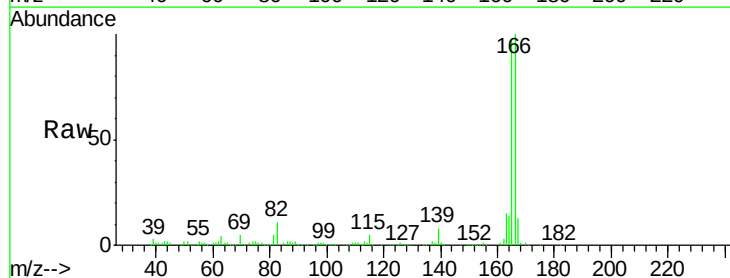


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

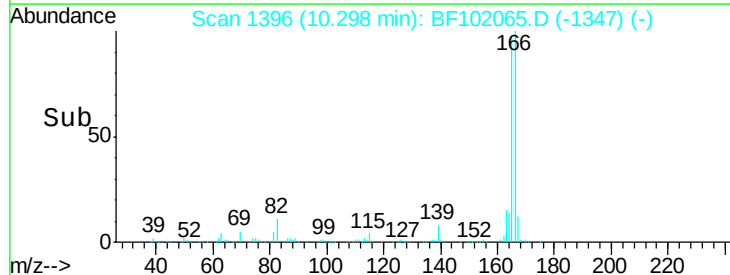
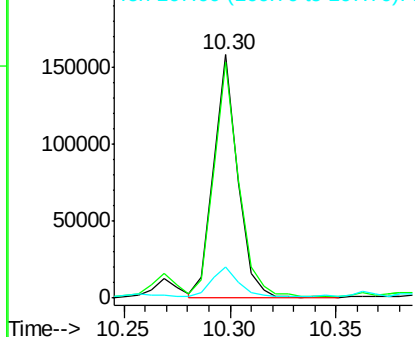


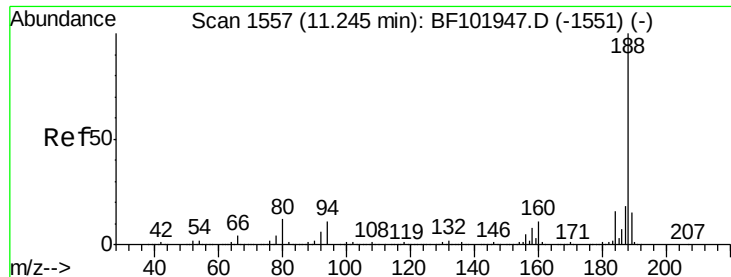
#57
Fluorene
Concen: 5.696 ng
RT: 10.30 min Scan# 1396
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.1	79.8	119.8
167	12.8	10.6	16.0



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

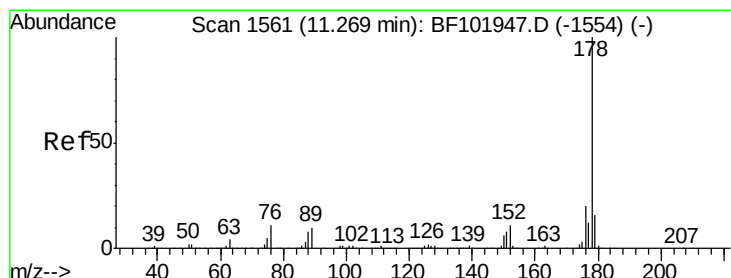
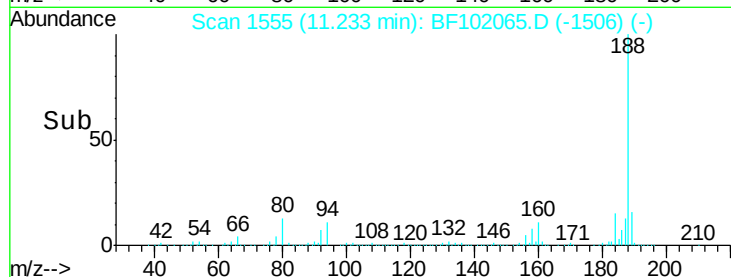
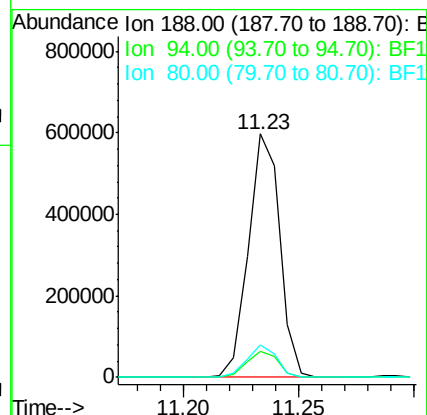
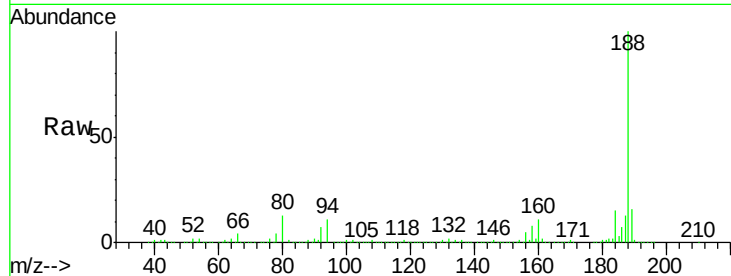




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

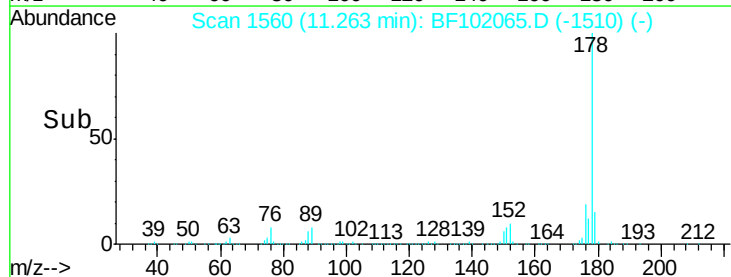
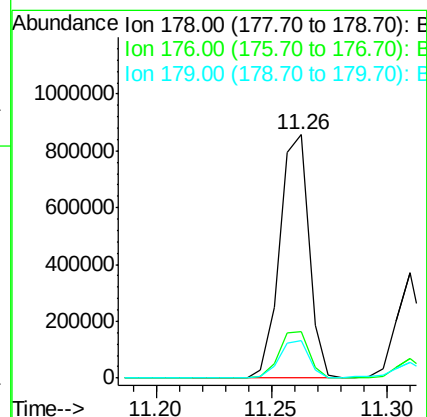
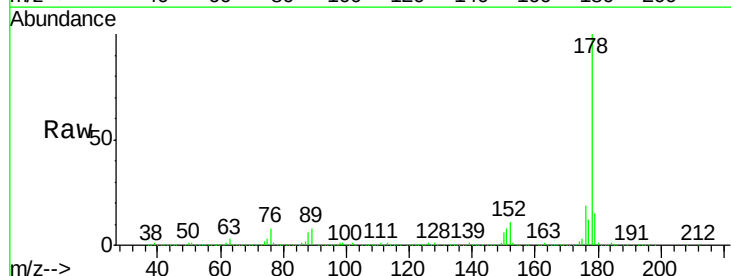
Instrument :
BNA_F
ClientSampleId :
A2-SB23-W

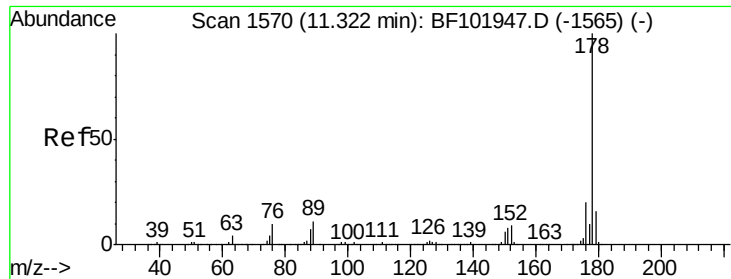
Tgt Ion:188 Resp: 567398
Ion Ratio Lower Upper
188 100
94 11.0 8.5 12.7
80 13.1 9.2 13.8



#70
Phenanthrene
Concen: 22.717 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Tgt Ion:178 Resp: 752914
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.8
179 15.3 13.0 19.6

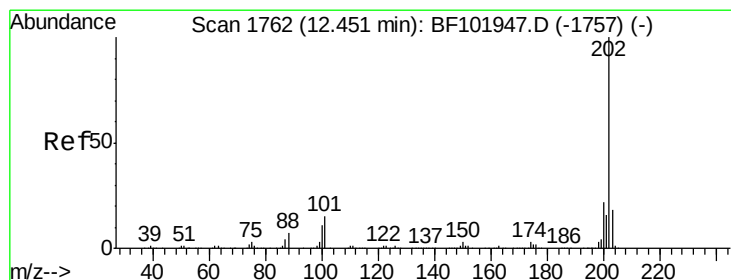
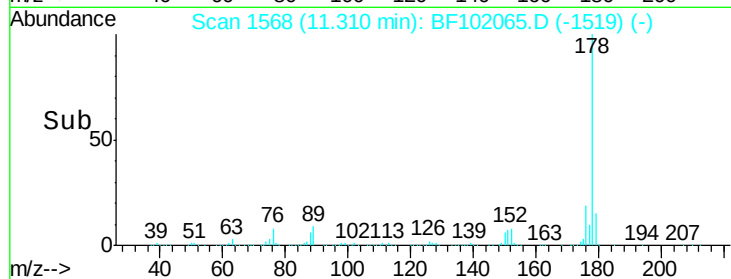
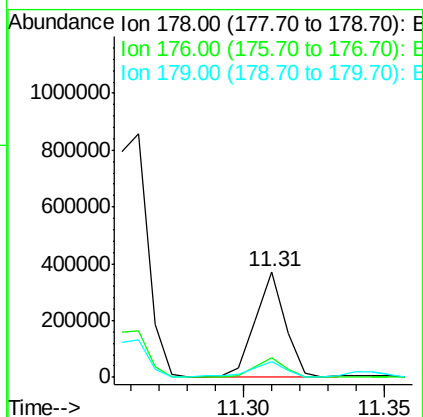
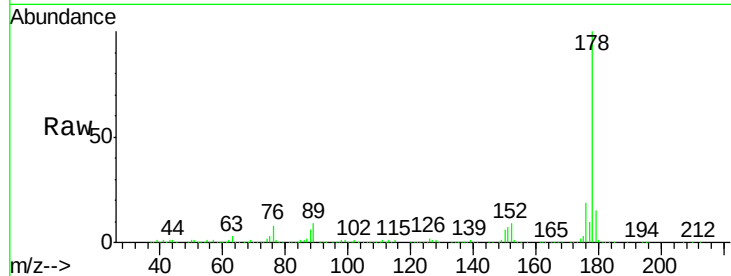




#71
 Anthracene
 Concen: 8.193 ng
 RT: 11.31 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: BF102065.D
 Acq: 15 Jan 2018 16:20

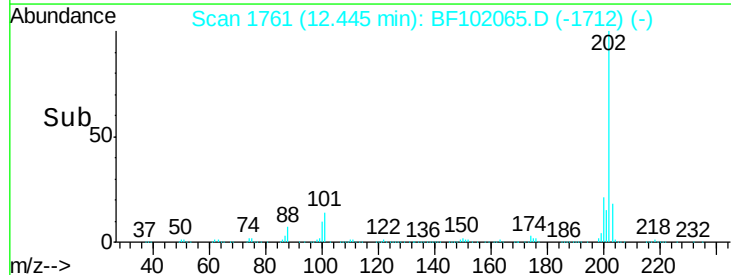
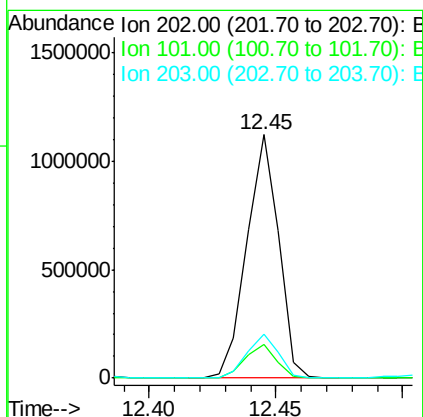
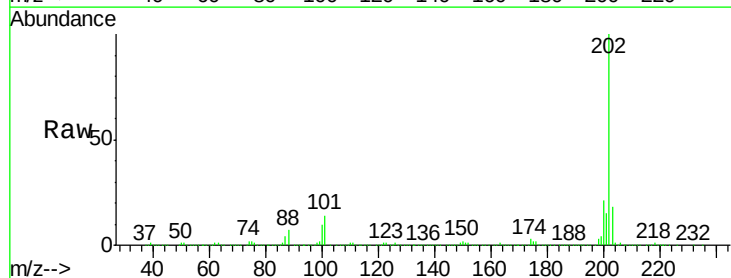
Instrument :
 BNA_F
 ClientSampleId :
 A2-SB23-W

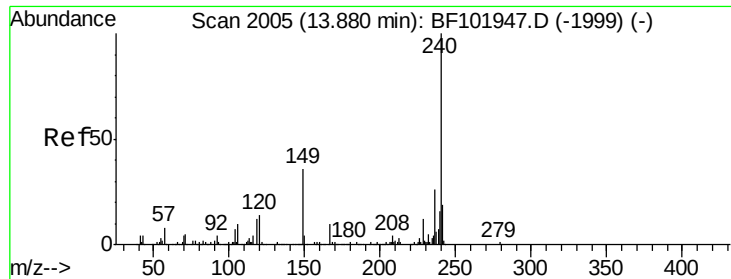
Tgt Ion:178 Resp: 275396
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.2
 179 15.2 12.6 19.0



#74
 Fluoranthene
 Concen: 29.972 ng
 RT: 12.45 min Scan# 1761
 Delta R.T. -0.01 min
 Lab File: BF102065.D
 Acq: 15 Jan 2018 16:20

Tgt Ion:202 Resp: 977361
 Ion Ratio Lower Upper
 202 100
 101 13.7 0.0 34.1
 203 17.8 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

Instrument :

BNA_F

ClientSampleId :

A2-SB23-W

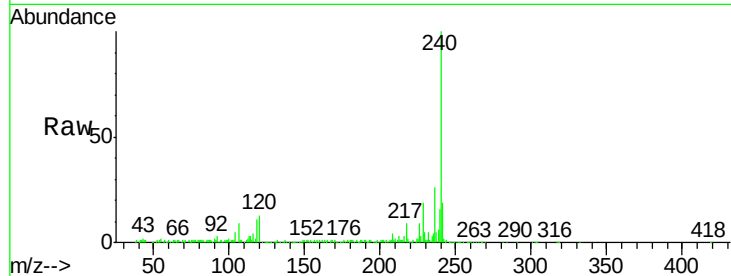
Tgt Ion:240 Resp: 292314

Ion Ratio Lower Upper

240 100

120 13.4 9.5 14.3

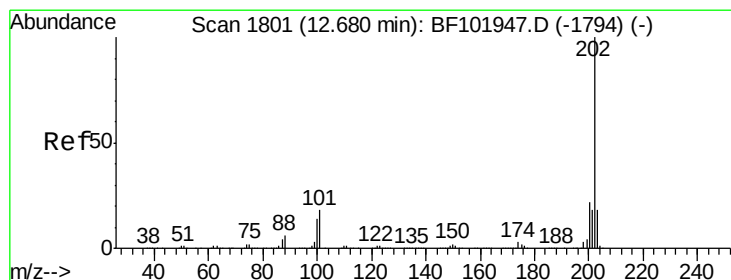
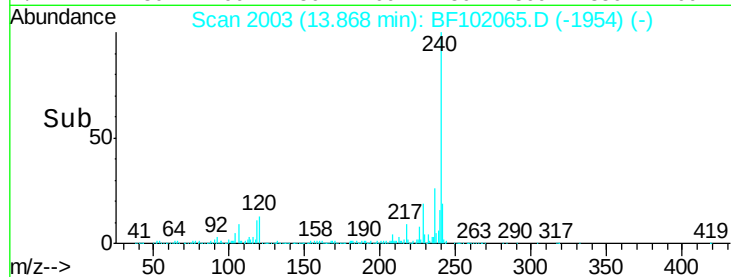
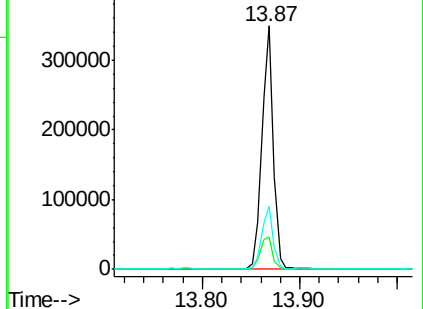
236 26.2 20.7 31.1



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



#77

Pyrene

Concen: 35.415 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

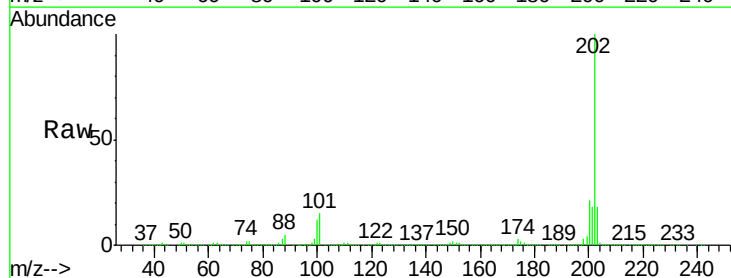
Tgt Ion:202 Resp: 915075

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

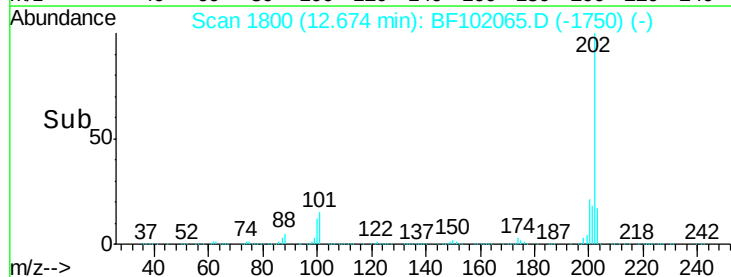
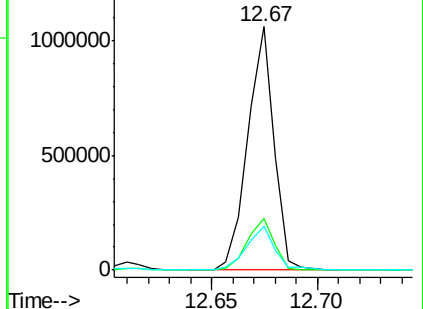
203 17.9 14.3 21.5

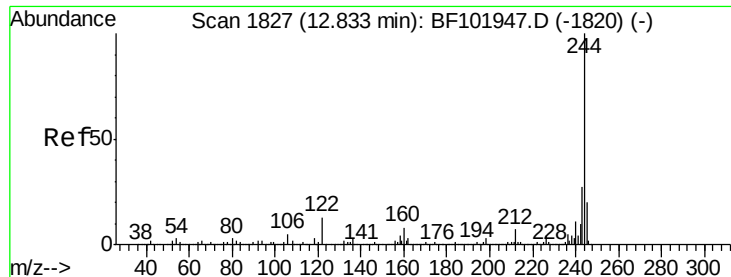


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 0.966 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.02 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

Instrument :

BNA_F

ClientSampleId :

A2-SB23-W

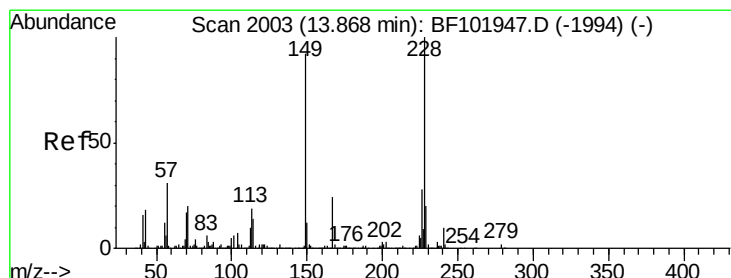
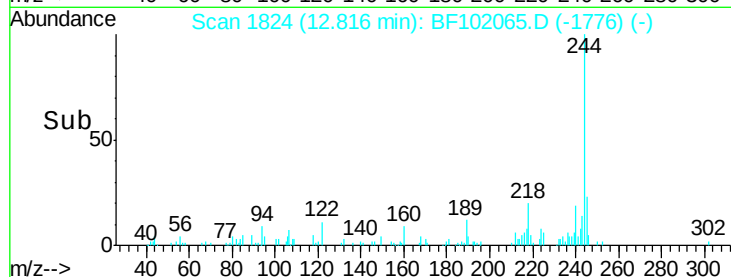
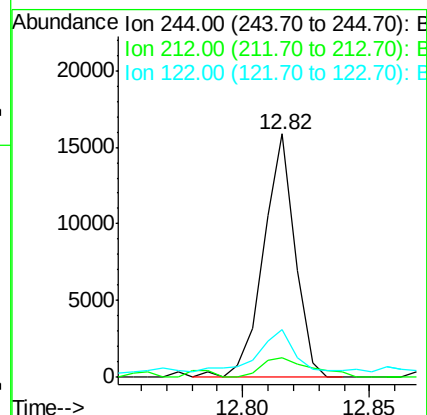
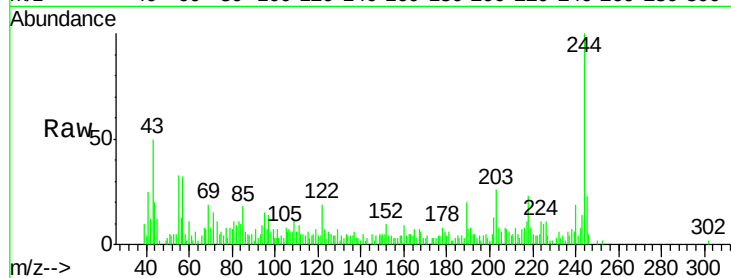
Tgt Ion:244 Resp: 13601

Ion Ratio Lower Upper

244 100

212 8.2 5.4 8.0#

122 19.5 11.0 16.4#



#80

Benzo(a)anthracene

Concen: 17.367 ng

RT: 13.89 min Scan# 2007

Delta R.T. 0.02 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

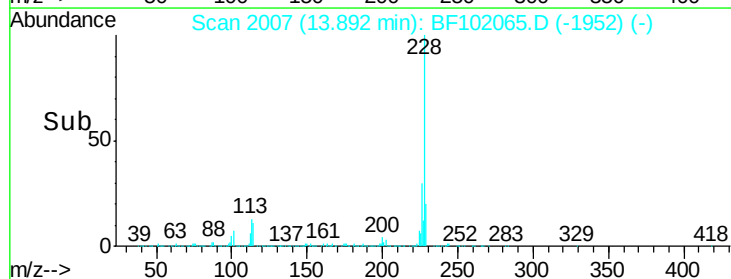
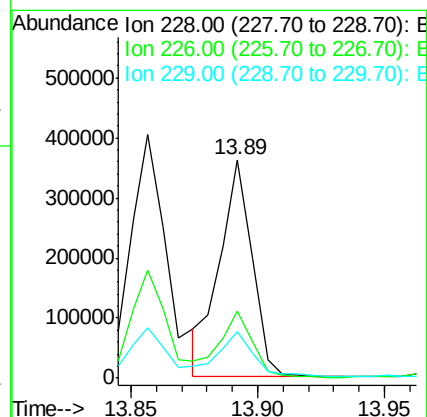
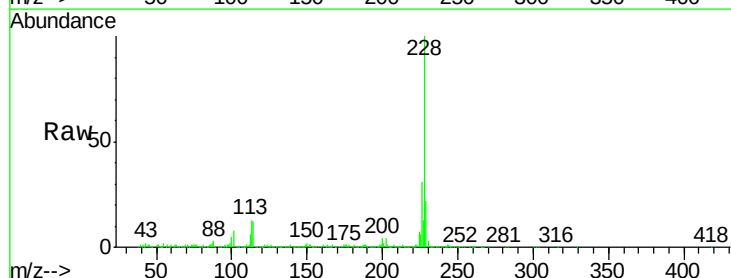
Tgt Ion:228 Resp: 323905

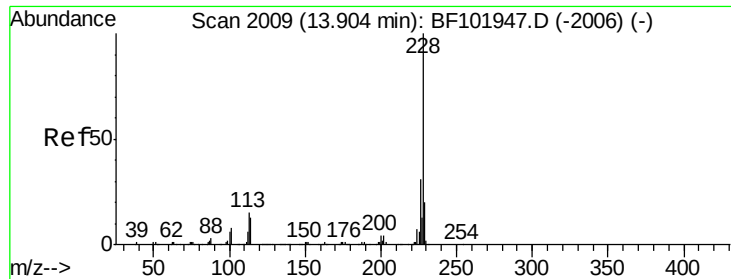
Ion Ratio Lower Upper

228 100

226 31.0 22.6 33.8

229 21.6 15.8 23.6





#82

Chrysene

Concen: 16.655 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

Instrument :

BNA_F

ClientSampleId :

A2-SB23-W

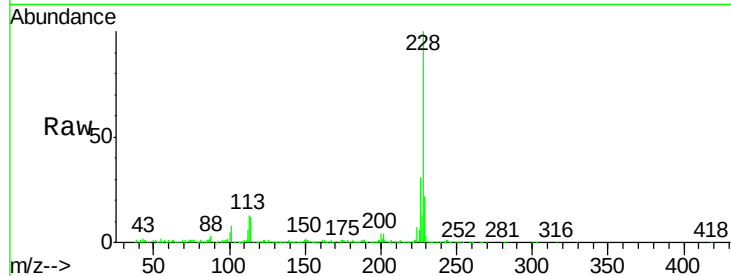
Tgt Ion: 228 Resp: 323905

Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.6

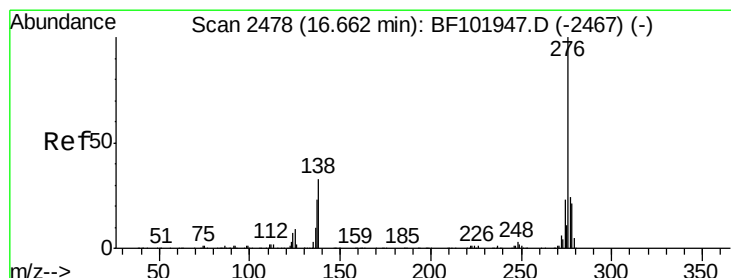
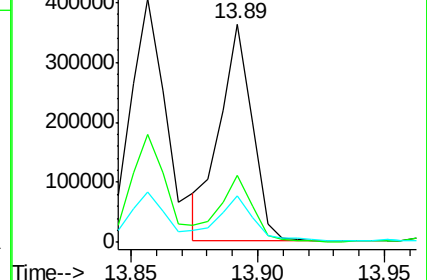
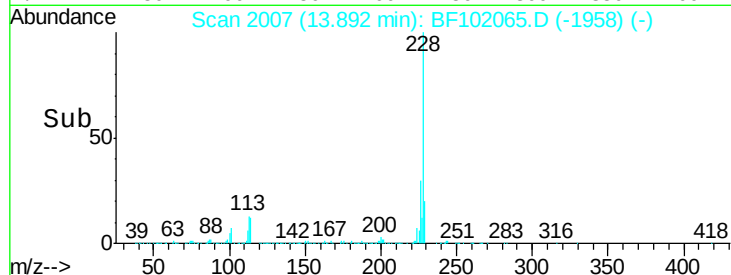
229 21.6 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 20.355 ng

RT: 16.65 min Scan# 2476

Delta R.T. -0.02 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

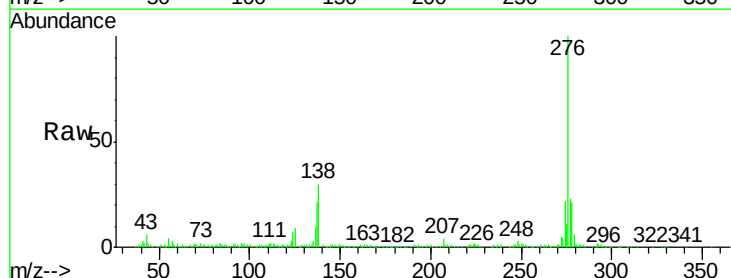
Tgt Ion: 276 Resp: 288119

Ion Ratio Lower Upper

276 100

138 29.0 25.0 37.6

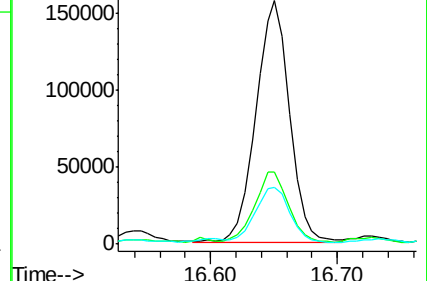
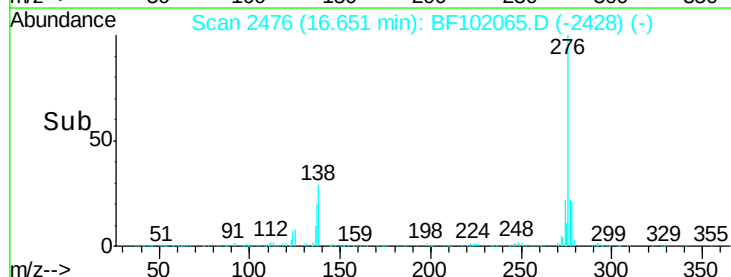
277 23.9 20.1 30.1

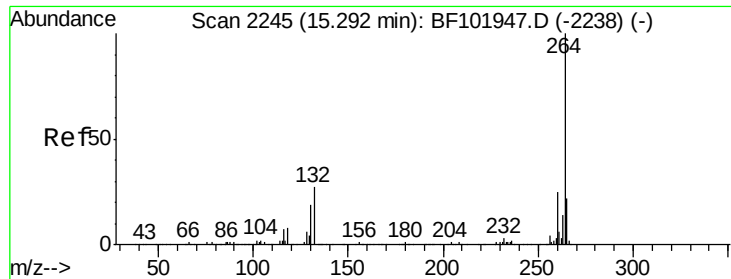


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.28 min Scan# 2243

Delta R.T. -0.01 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

Instrument :

BNA_F

ClientSampleId :

A2-SB23-W

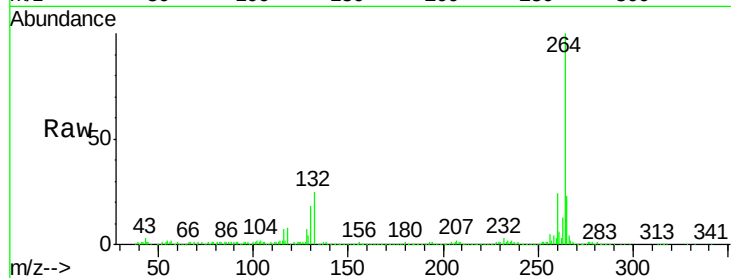
Tgt Ion:264 Resp: 354745

Ion Ratio Lower Upper

264 100

260 24.0 19.2 28.8

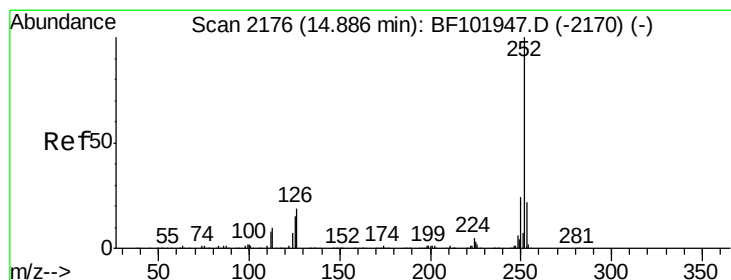
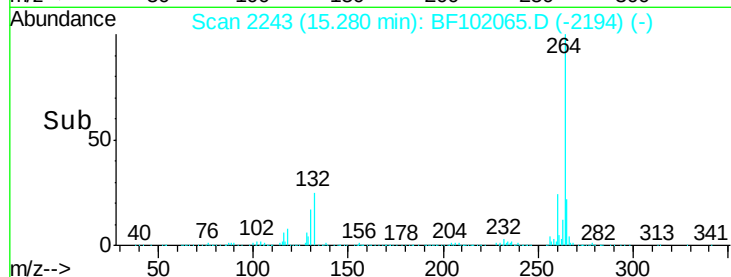
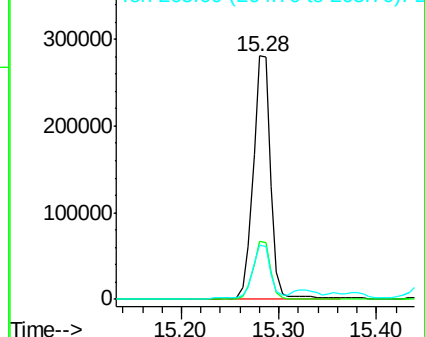
265 22.5 17.5 26.3



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



#87

Benzo(b)fluoranthene

Concen: 30.016 ng

RT: 14.88 min Scan# 2175

Delta R.T. -0.01 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

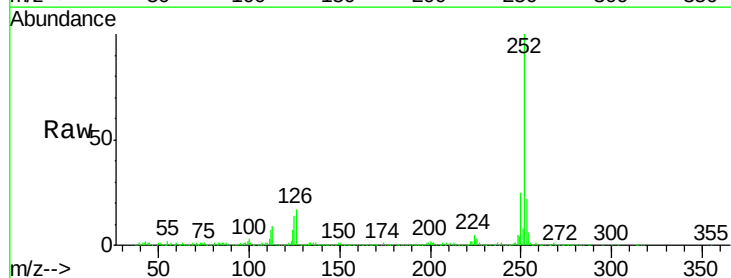
Tgt Ion:252 Resp: 694291

Ion Ratio Lower Upper

252 100

253 22.3 17.0 25.6

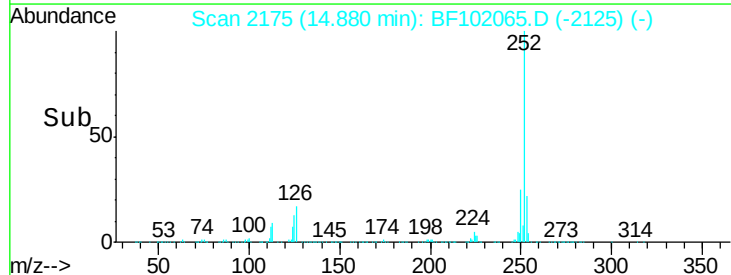
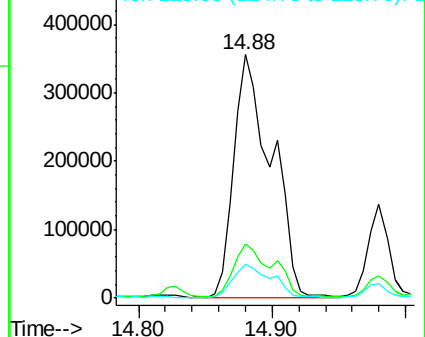
125 13.8 9.0 13.6#

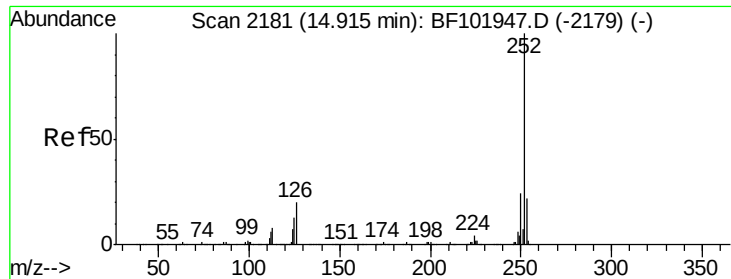


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

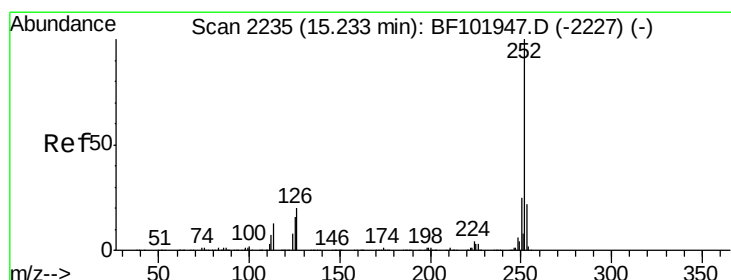
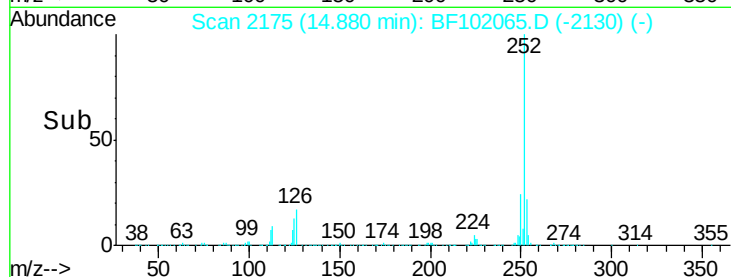
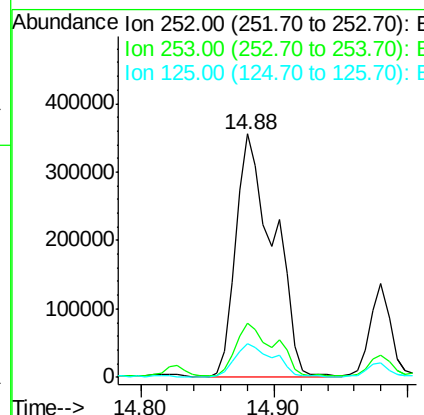
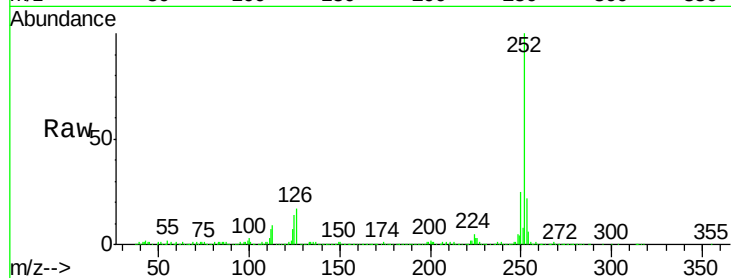




#88
Benzo(k)fluoranthene
Concen: 31.115 ng
RT: 14.88 min Scan# 2175
Delta R.T. -0.04 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

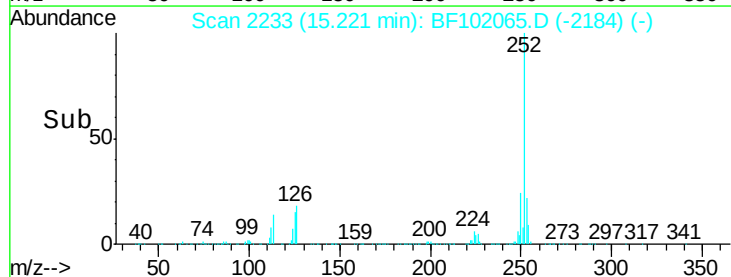
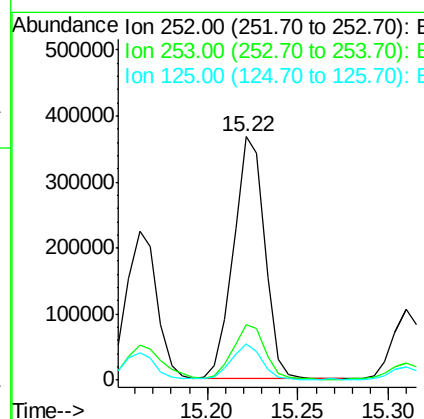
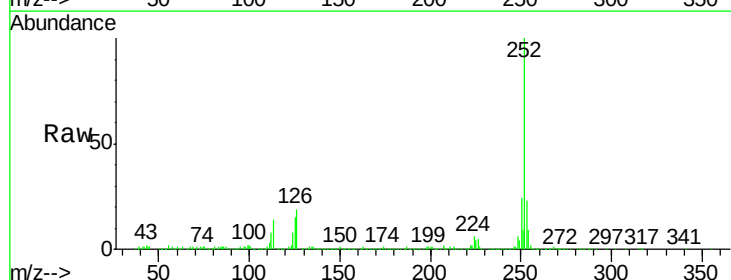
Instrument :
BNA_F
ClientSampleId :
A2-SB23-W

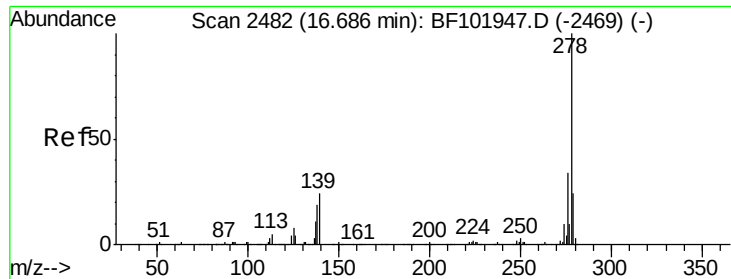
Tgt Ion: 252 Resp: 694291
Ion Ratio Lower Upper
252 100
253 22.3 17.9 26.9
125 13.8 10.2 15.2



#89
Benzo(a)pyrene
Concen: 21.124 ng
RT: 15.22 min Scan# 2233
Delta R.T. -0.01 min
Lab File: BF102065.D
Acq: 15 Jan 2018 16:20

Tgt Ion: 252 Resp: 439677
Ion Ratio Lower Upper
252 100
253 22.6 17.1 25.7
125 15.1 9.8 14.6#





#90

Dibenzo(a,h)anthracene

Concen: 4.316 ng

RT: 16.66 min Scan# 2477

Delta R.T. -0.03 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

Instrument :

BNA_F

ClientSampleId :

A2-SB23-W

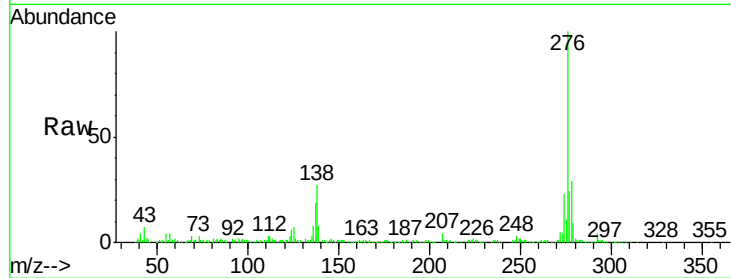
Tgt Ion:278 Resp: 71692

Ion Ratio Lower Upper

278 100

139 26.3 15.9 23.9#

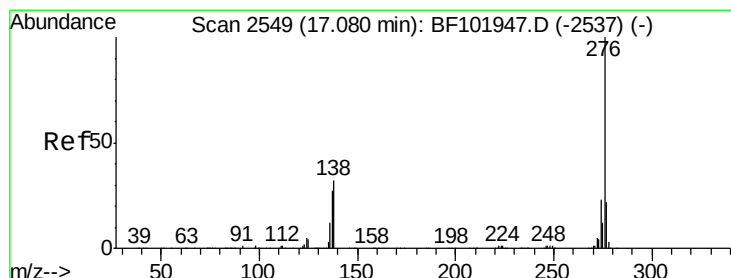
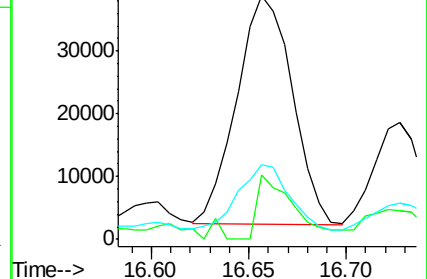
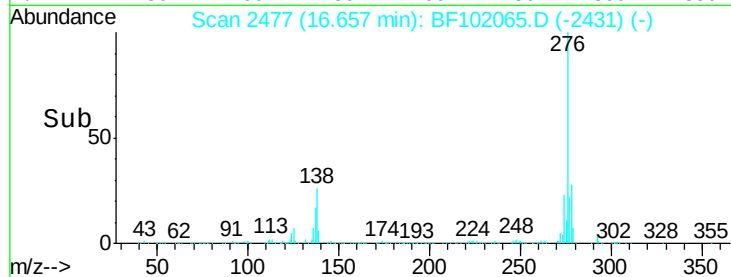
279 30.4 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 16.481 ng

RT: 17.06 min Scan# 2546

Delta R.T. -0.02 min

Lab File: BF102065.D

Acq: 15 Jan 2018 16:20

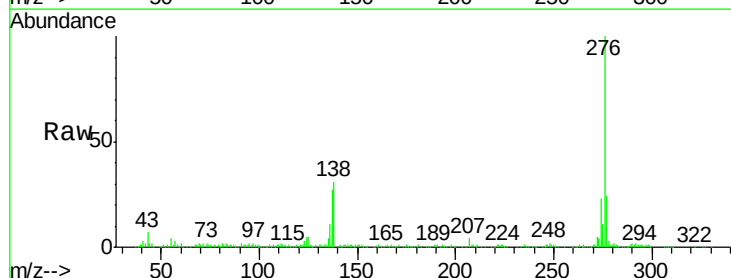
Tgt Ion:276 Resp: 275760

Ion Ratio Lower Upper

276 100

277 24.1 17.9 26.9

138 31.3 21.8 32.8



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

