

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
 Data File : BF086947.D
 Acq On : 12 May 2016 23:19
 Operator : UM/SJ
 Sample : H2994-05
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SPARTAPARK-1542-00(0-2)

Quant Time: May 13 00:52:21 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng	-6.69
21) Naphthalene-d8	7.91	136	582370	20.00	ng	-0.08
38) Acenaphthene-d10	9.66	164	251502	20.00	ng	-0.08
63) Phenanthrene-d10	11.13	188	366448	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	283386	20.00	ng	-0.08
86) Perylene-d12	15.12	264	305787	20.00	ng	-0.09

System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	909446	0.00	ng	-0.07
7) Phenol-d6	6.30	99	1255032	0.00	ng	-0.07
23) Nitrobenzene-d5	7.20	82	936346	80.73	ng	-0.07
41) 2,4,6-Tribromophenol	10.44	330	218516	82.07	ng	-0.08
44) 2-Fluorobiphenyl	8.99	172	1292866	86.40	ng	-0.07
78) Terphenyl-d14	12.72	244	751794	56.29	ng	-0.08

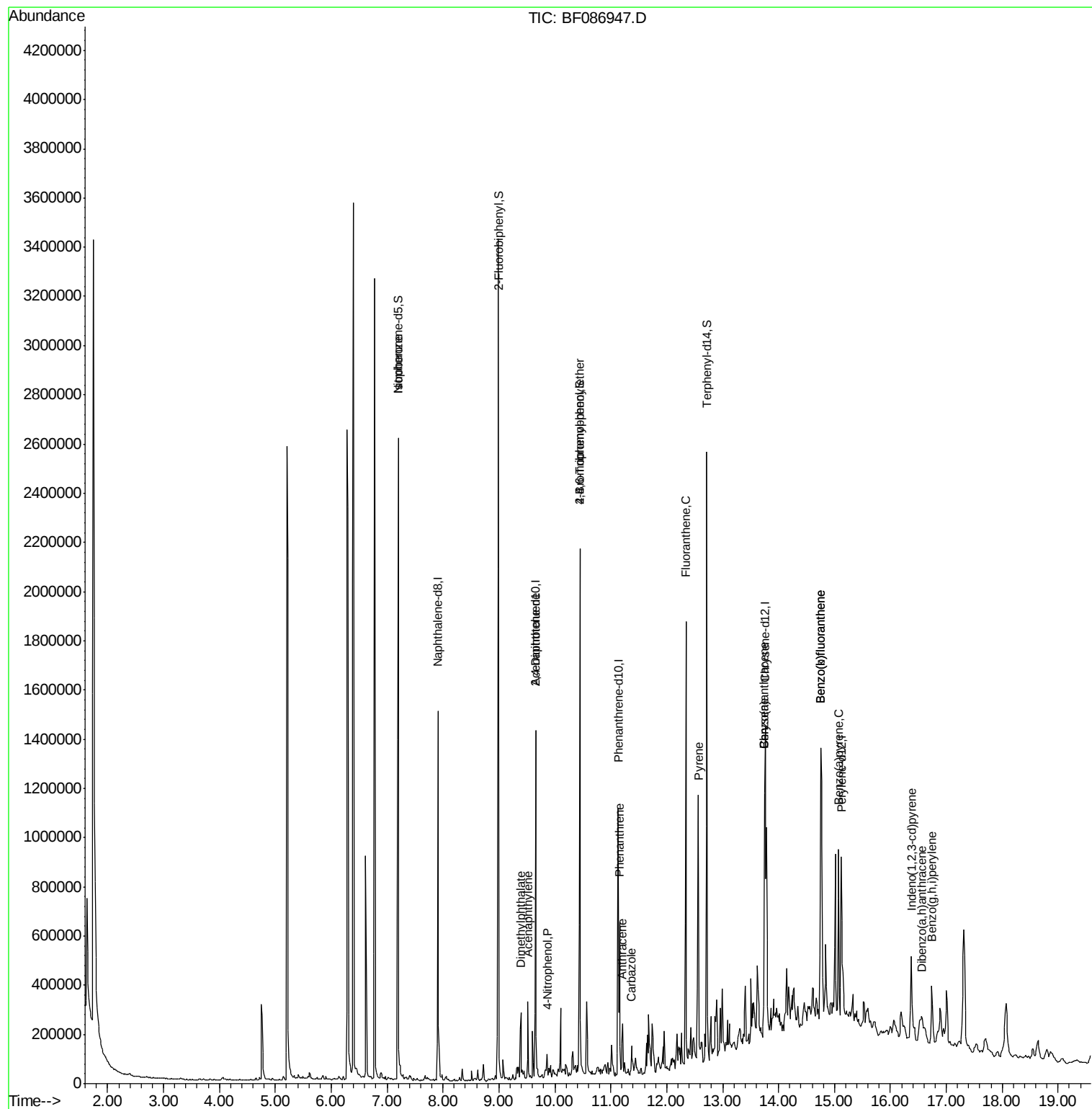
Target Compounds						Qvalue
25) Isophorone	7.20	82	909060	42.24	ng	# 68
48) Acenaphthylene	9.52	152	132570	5.75	ng	99
49) Dimethylphthalate	9.39	163	111313	5.80	ng	# 98
55) 4-Nitrophenol	9.86	139	6764	6.81	ng	# 21
56) 2,4-Dinitrotoluene	9.66	165	33149	6.63	ng	# 16
60) 4-Chlorophenyl-phenylether	10.01	204	320	Below Cal		# 78
66) 4-Bromophenyl-phenylether	10.44	248	14525	3.91	ng	# 1
70) Phenanthrene	11.15	178	214018	10.94	ng	98
71) Anthracene	11.21	178	105675	5.28	ng	98
72) Carbazole	11.37	167	50138	2.92	ng	98
74) Fluoranthene	12.34	202	715856	35.59	ng	94
77) Pyrene	12.57	202	632832	29.17	ng	98
80) Benzo(a)anthracene	13.75	228	422594	26.56	ng	# 91
82) Chrysene	13.75	228	422594	26.11	ng	93
85) Indeno(1,2,3-cd)pyrene	16.38	276	216466	16.08	ng	# 90
87) Benzo(b)fluoranthene	14.75	252	843552	42.45	ng	98
88) Benzo(k)fluoranthene	14.75	252	843552	51.84	ng	97
89) Benzo(a)pyrene	15.07	252	336952	19.66	ng	# 96
90) Dibenzo(a,h)anthracene	16.56	278	46958	3.25	ng	94
91) Benzo(g,h,i)perylene	16.74	276	173095	11.79	ng	95

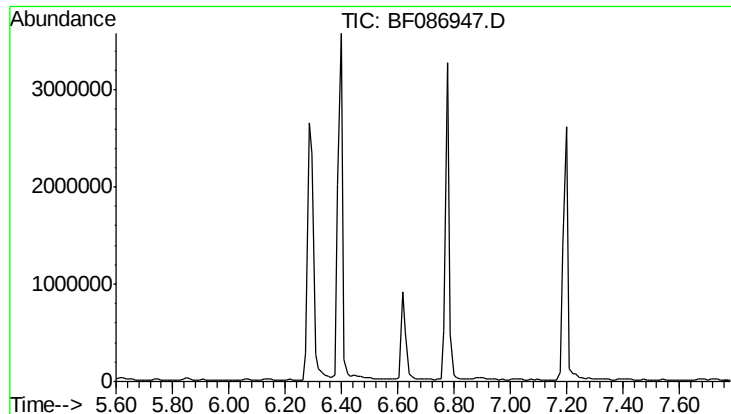
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.00 ng

Expected RT: 6.69 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

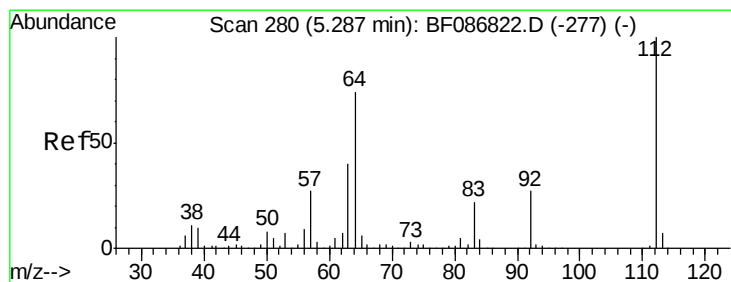
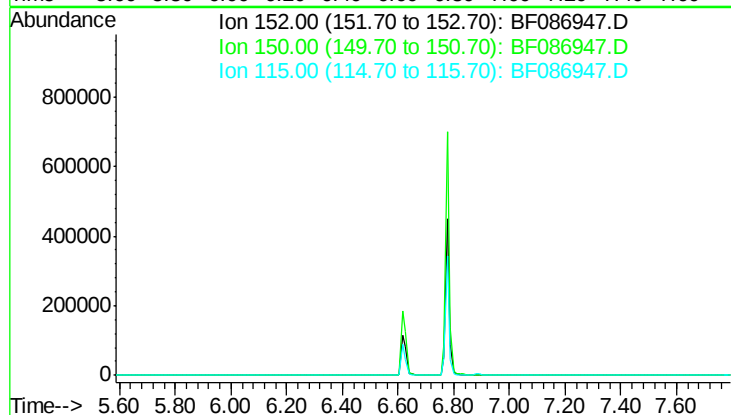
Tgt Ion: 152

Sig Exp Ratio

152 100

150 157.2

115 64.4



#5

2-Fluorophenol

Concen: 0.00 ng

RT: 5.22 min Scan# 318

Delta R.T. -0.07 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

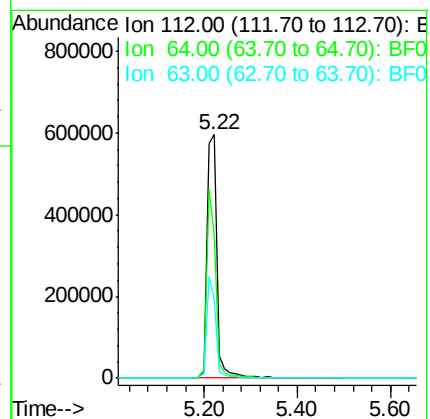
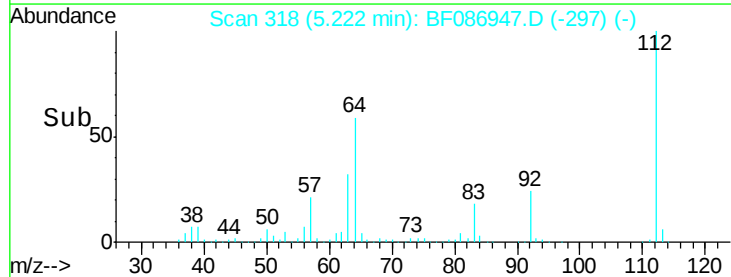
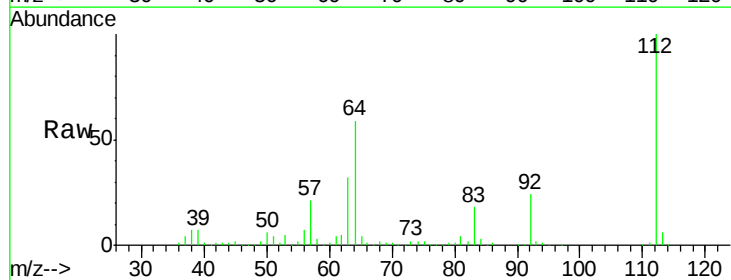
Tgt Ion: 112 Resp: 909446

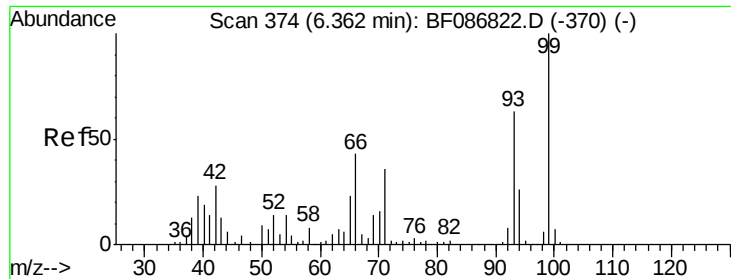
Ion Ratio Lower Upper

112 100

64 58.5 52.1 78.1

63 32.0 25.7 38.5





#7

Phenol-d6

Concen: 0.00 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.07 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

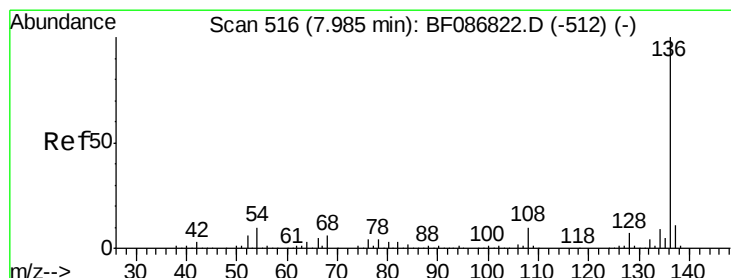
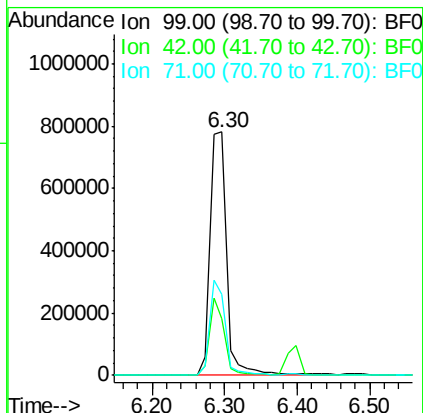
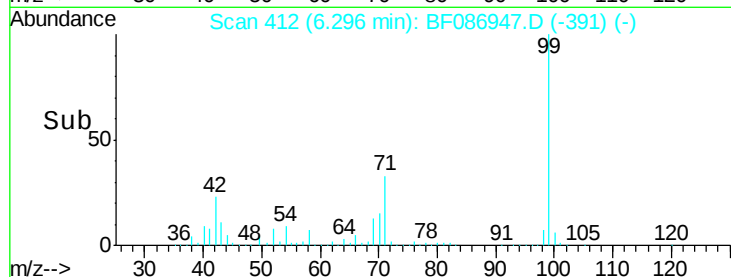
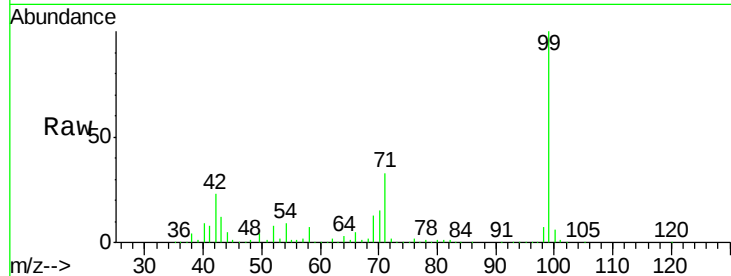
Tgt Ion: 99 Resp: 1255032

Ion Ratio Lower Upper

99 100

42 23.2 13.6 20.4#

71 33.2 24.6 36.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Tgt Ion: 136 Resp: 582370

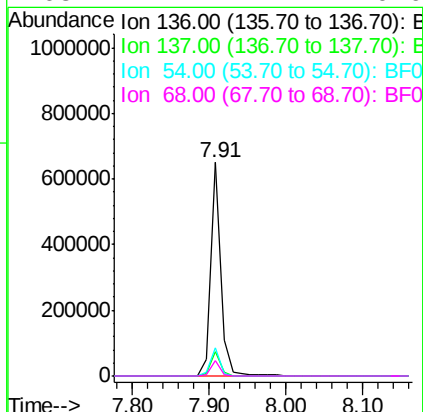
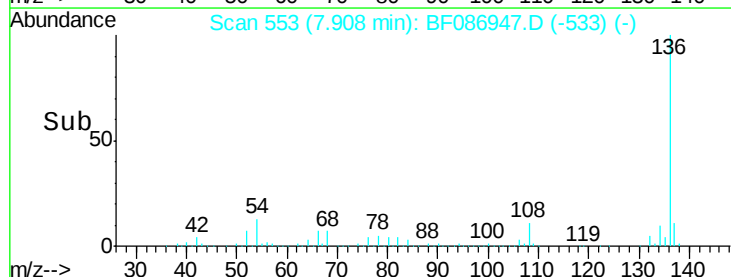
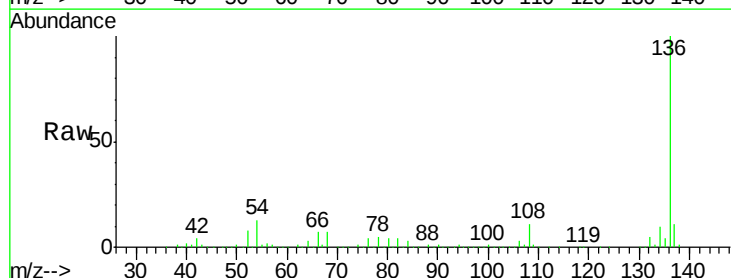
Ion Ratio Lower Upper

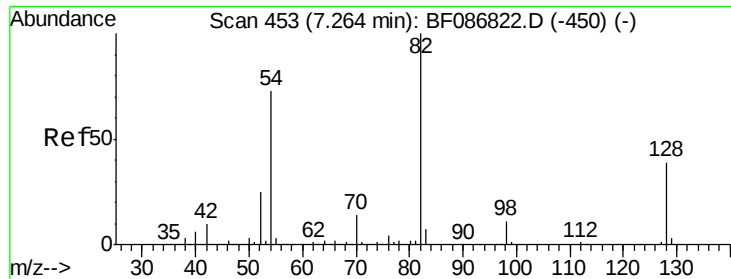
136 100

137 11.5 8.8 13.2

54 13.1 5.0 7.4#

68 7.1 4.4 6.6#

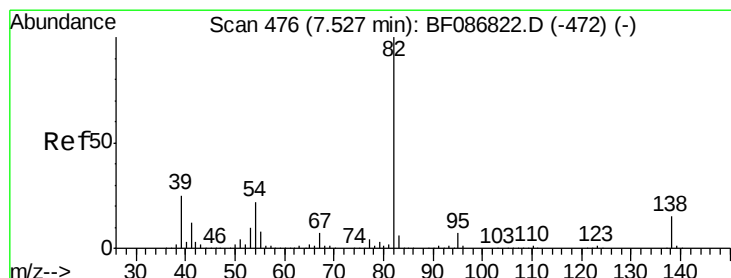
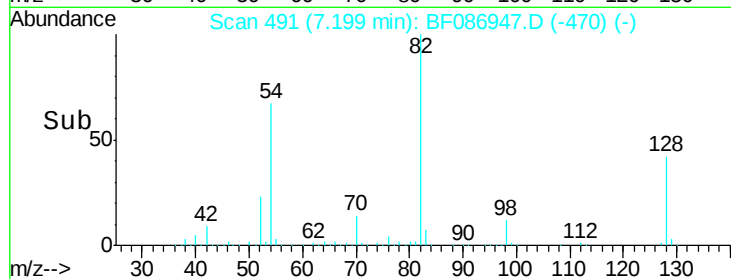
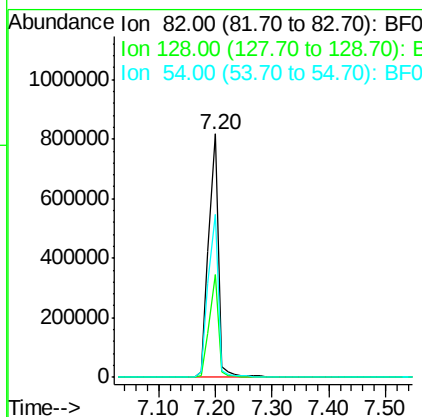
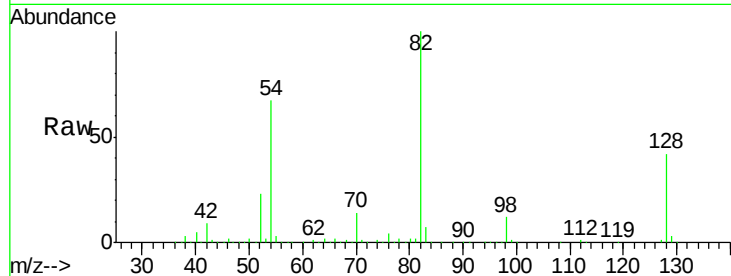




#23
 Nitrobenzene-d5
 Concen: 80.73 ng
 RT: 7.20 min Scan# 491
 Delta R.T. -0.07 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

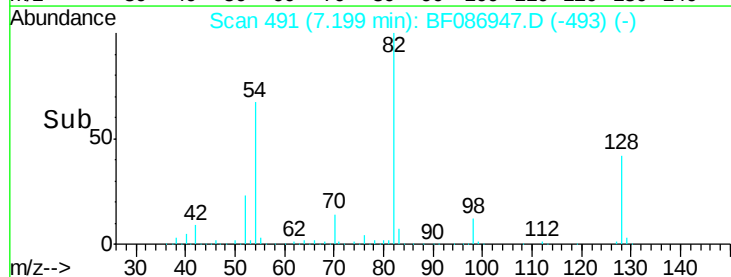
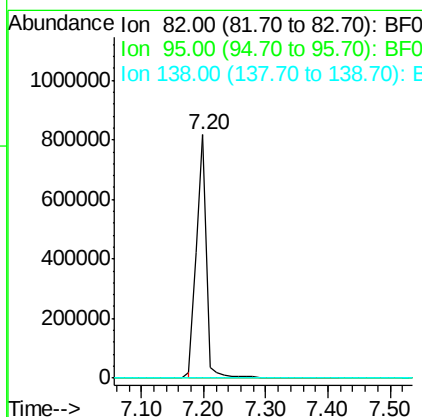
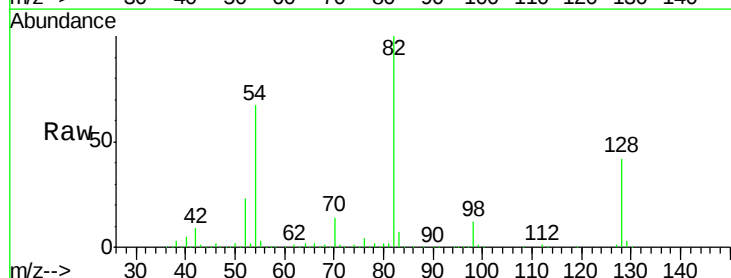
Instrument :
 BNA_F
 ClientSampleId :
 SPARTAPARK-1542-00(0-2)

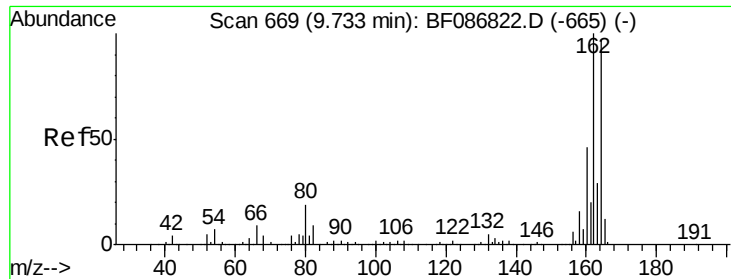
Tgt Ion: 82 Resp: 936346
 Ion Ratio Lower Upper
 82 100
 128 42.0 40.6 61.0
 54 67.0 38.1 57.1#



#25
 Isophorone
 Concen: 42.24 ng
 RT: 7.20 min Scan# 491
 Delta R.T. -0.33 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Tgt Ion: 82 Resp: 909060
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.1 7.7#
 138 0.0 12.4 18.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

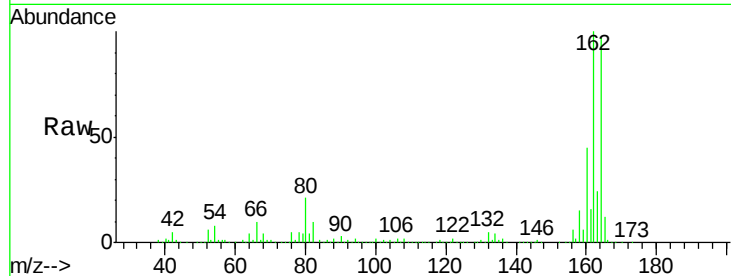
Tgt Ion:164 Resp: 251502

Ion Ratio Lower Upper

164 100

162 103.2 82.8 124.2

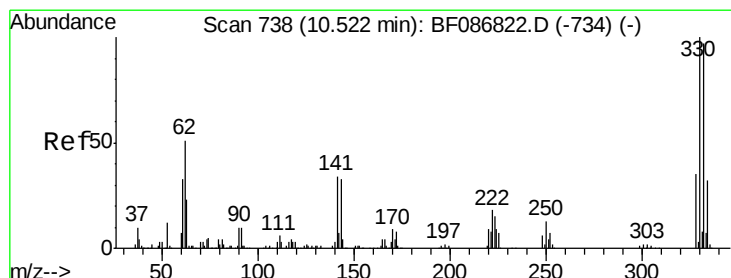
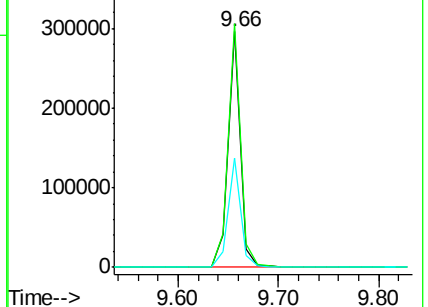
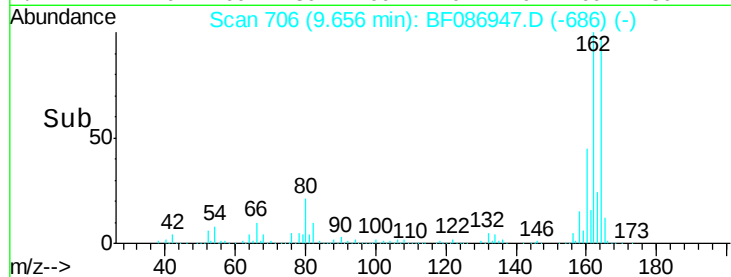
160 46.3 36.9 55.3



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: 82.07 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

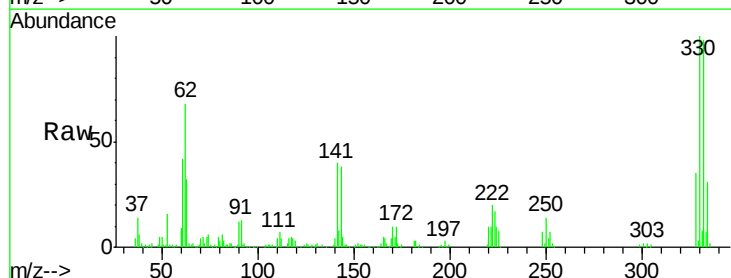
Tgt Ion:330 Resp: 218516

Ion Ratio Lower Upper

330 100

332 97.8 79.0 118.4

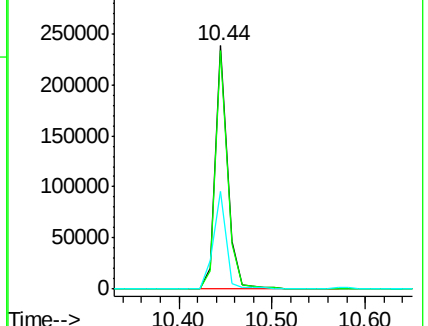
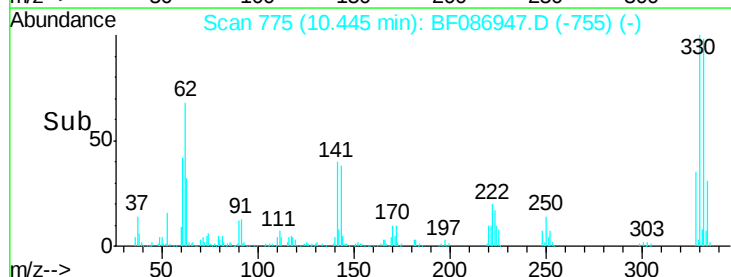
141 42.1 31.2 46.8

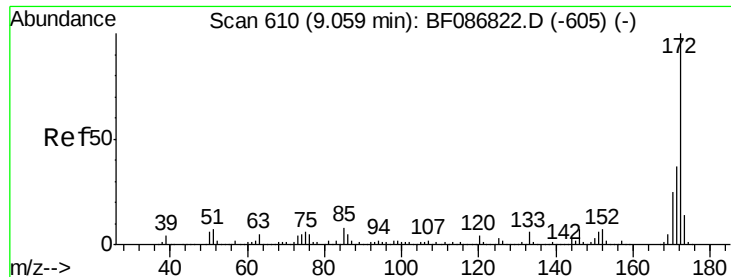


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

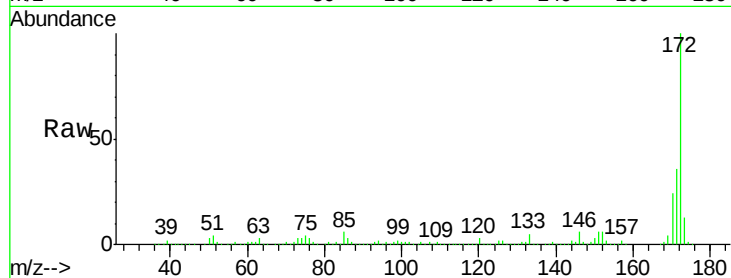




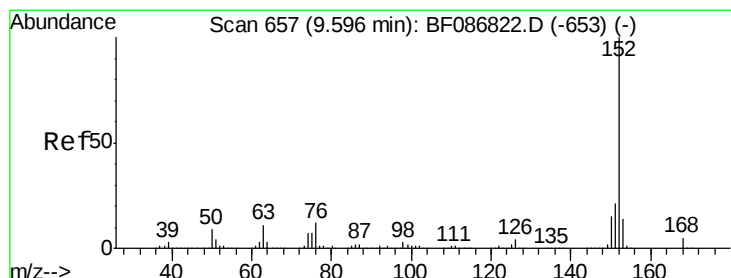
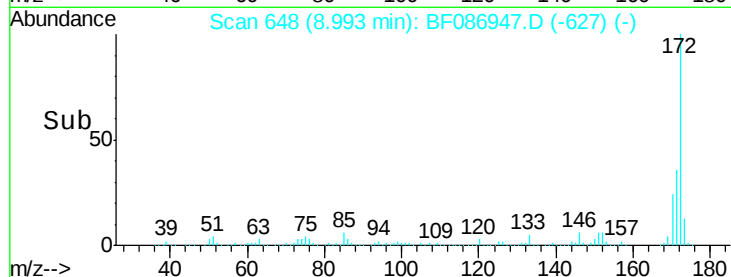
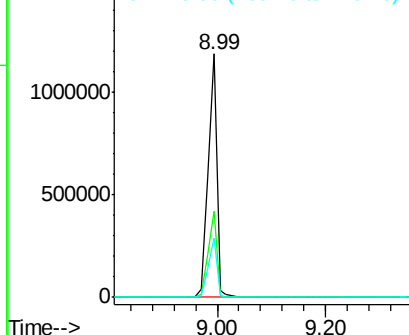
#44
 2-Fluorobiphenyl
 Concen: 86.40 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.07 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Instrument :
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 ClientSampleId :
 SPARTAPARK-1542-00(0-2)

Tgt Ion:172 Resp: 1292866
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.0 43.6
 170 24.2 19.8 29.8

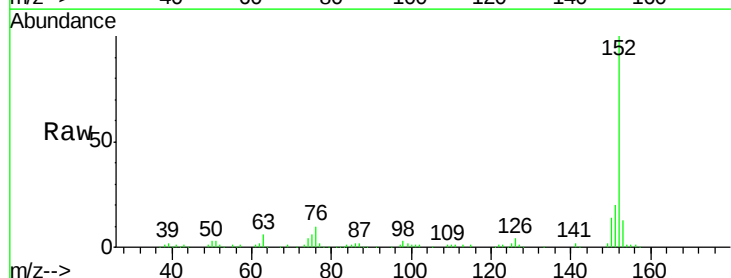


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

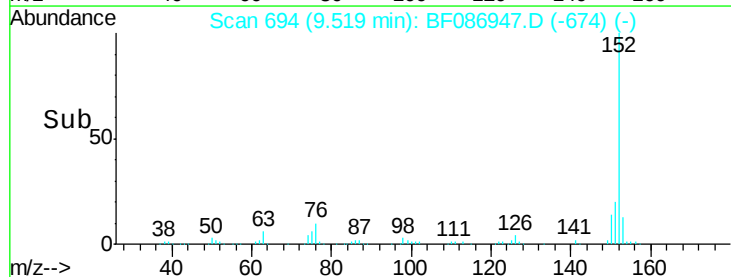
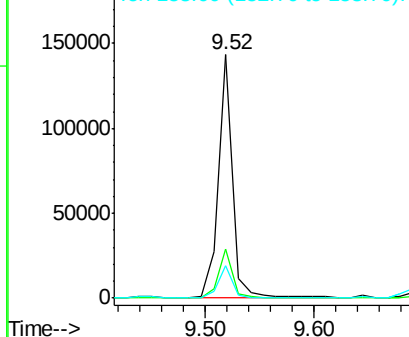


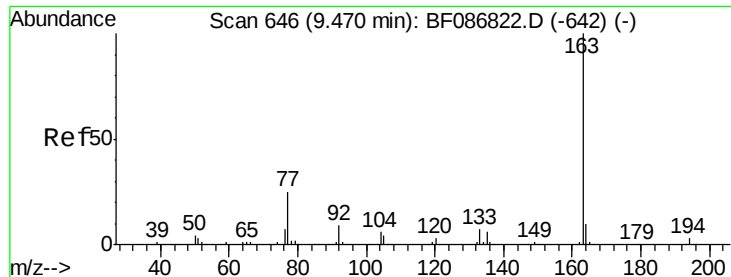
#48
 Acenaphthylene
 Concen: 5.75 ng
 RT: 9.52 min Scan# 694
 Delta R.T. -0.08 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Tgt Ion:152 Resp: 132570
 Ion Ratio Lower Upper
 152 100
 151 20.2 16.8 25.2
 153 13.4 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 5.80 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

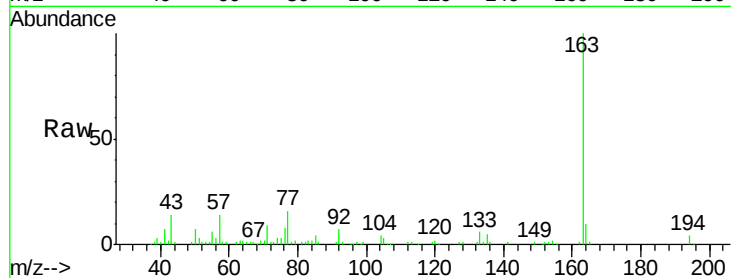
Tgt Ion:163 Resp: 111313

Ion Ratio Lower Upper

163 100

194 4.0 2.6 4.0#

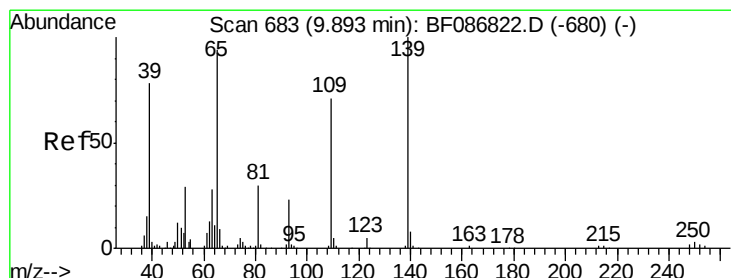
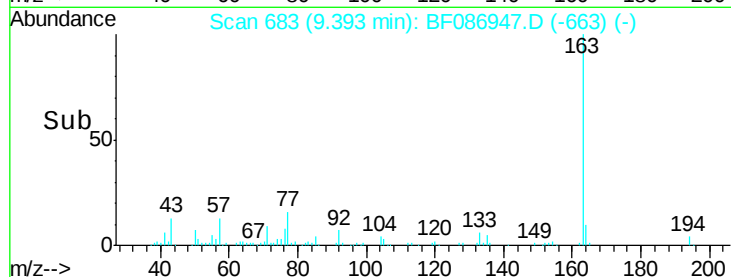
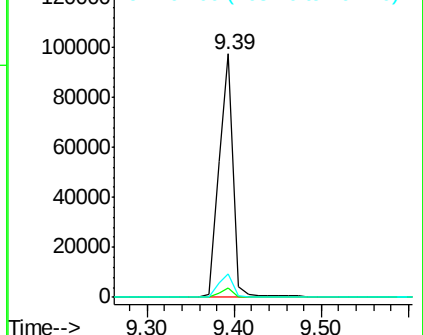
164 9.6 8.2 12.4



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



#55

4-Nitrophenol

Concen: 6.81 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.03 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

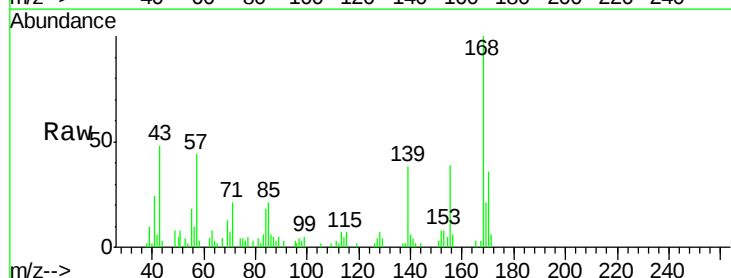
Tgt Ion:139 Resp: 6764

Ion Ratio Lower Upper

139 100

109 6.4 36.9 76.9#

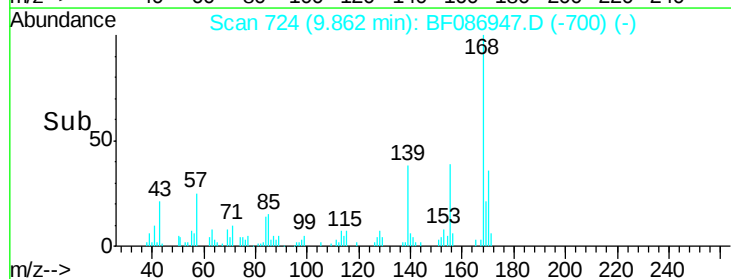
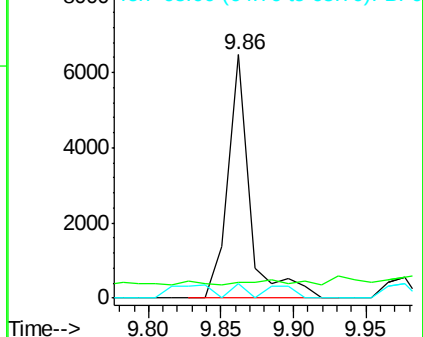
65 6.2 64.0 104.0#

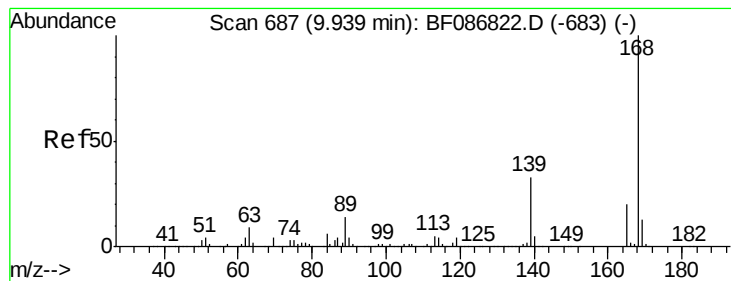


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

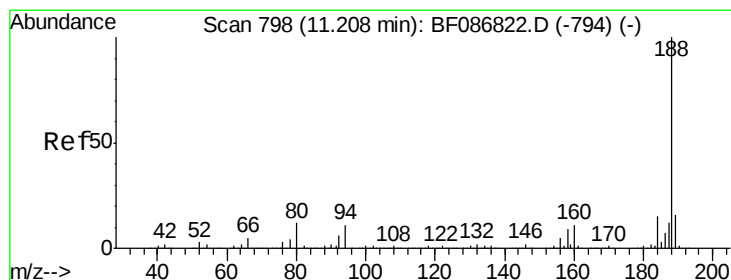
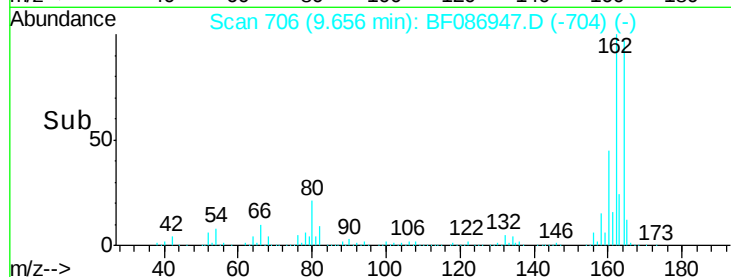
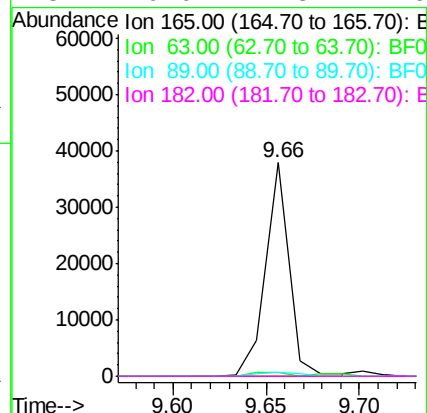
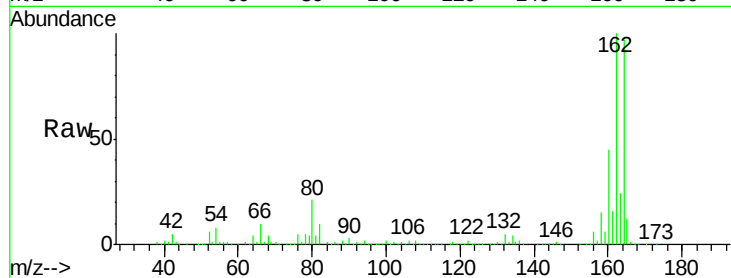




#56
2,4-Dinitrotoluene
Concen: 6.63 ng
RT: 9.66 min Scan# 706
Delta R.T. -0.28 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

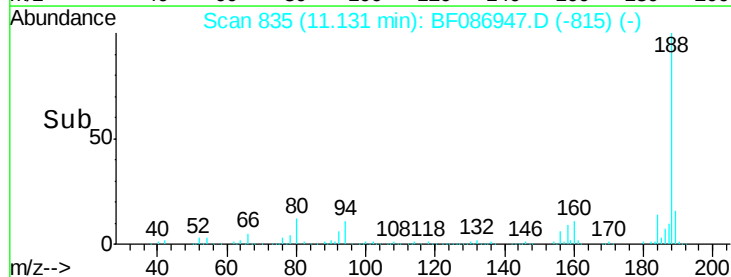
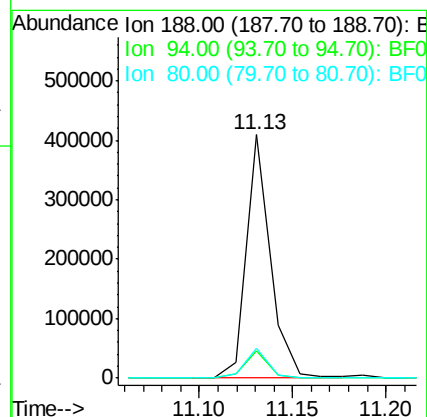
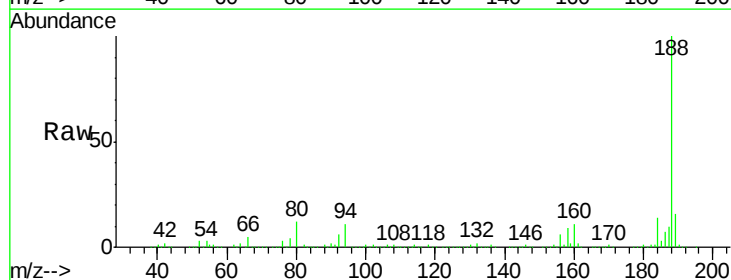
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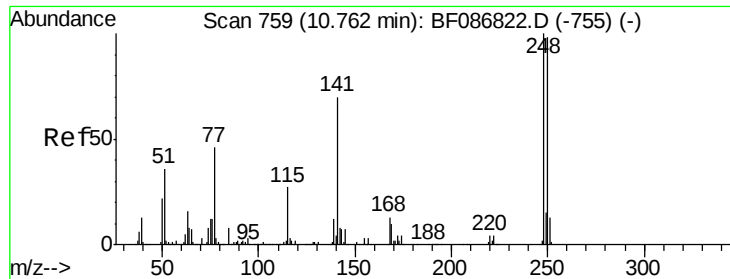
Tgt Ion:165 Resp: 33149
Ion Ratio Lower Upper
165 100
63 2.1 44.3 66.5#
89 1.8 70.0 105.0#
182 0.0 1.8 2.6#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.08 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

Tgt Ion:188 Resp: 366448
Ion Ratio Lower Upper
188 100
94 11.3 6.8 10.2#
80 12.2 7.1 10.7#

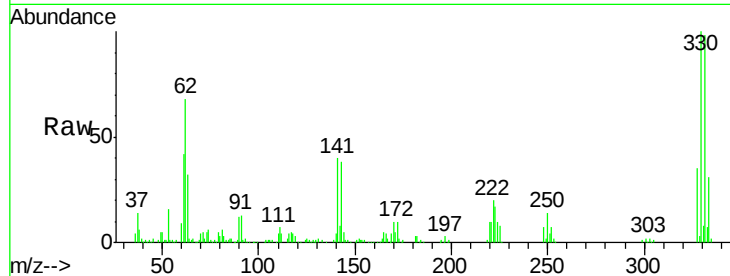




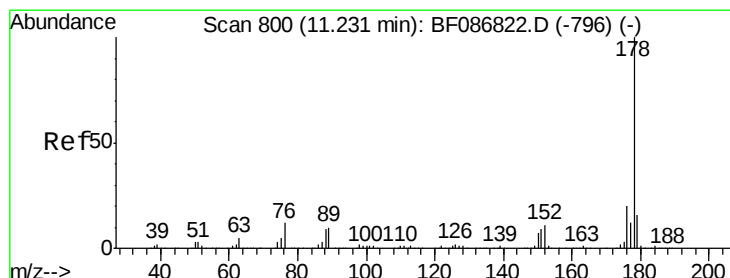
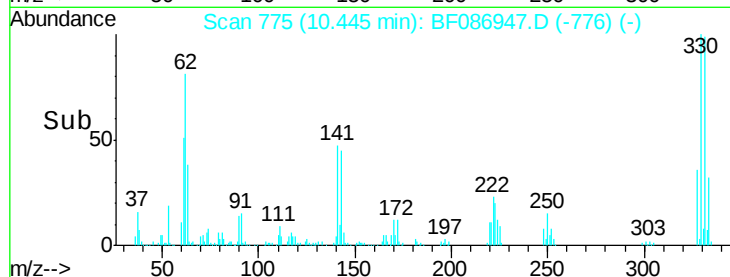
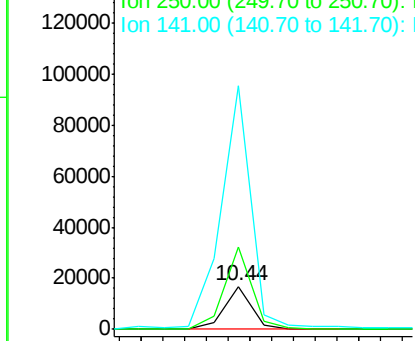
#66
4-Bromophenyl-phenylether
Concen: 3.91 ng
RT: 10.44 min Scan# 775
Delta R.T. -0.32 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

Instrument :
BNA_F
ClientSampleId :
SPARTAPARK-1542-00(0-2)

Tgt Ion:248 Resp: 14525
Ion Ratio Lower Upper
248 100
250 192.0 78.6 117.8#
141 564.5 76.0 114.0#

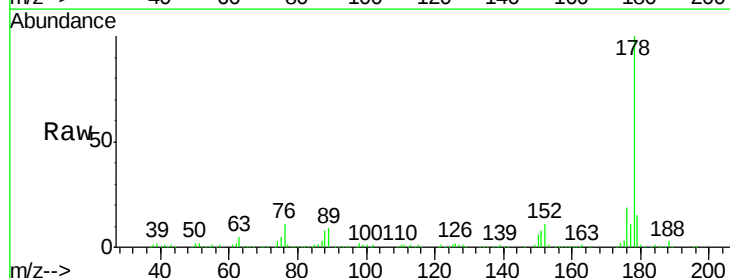


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

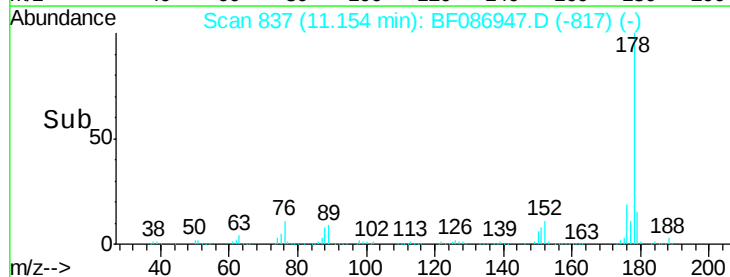
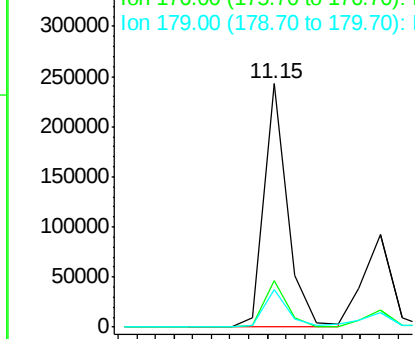


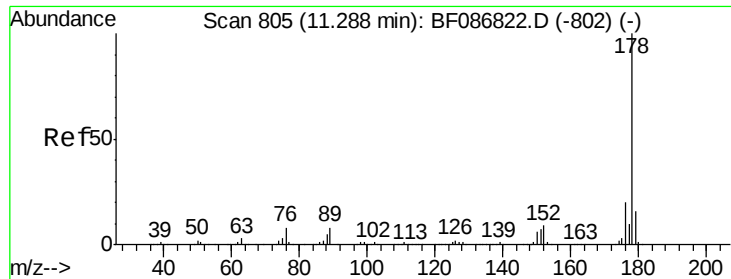
#70
Phenanthrene
Concen: 10.94 ng
RT: 11.15 min Scan# 837
Delta R.T. -0.08 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

Tgt Ion:178 Resp: 214018
Ion Ratio Lower Upper
178 100
176 19.1 16.0 24.0
179 15.2 12.6 18.8



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

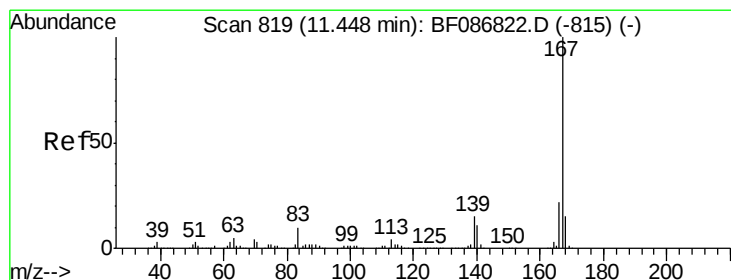
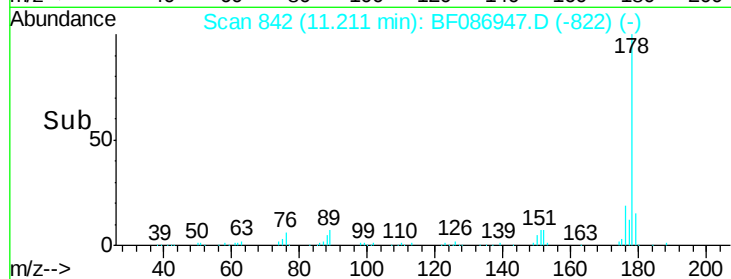
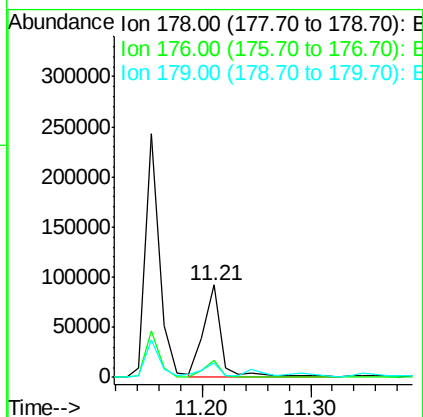
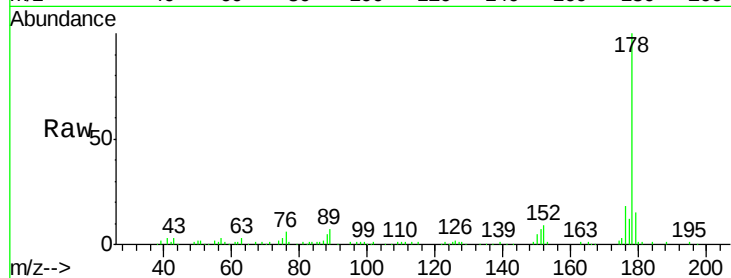




#71
 Anthracene
 Concen: 5.28 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.08 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

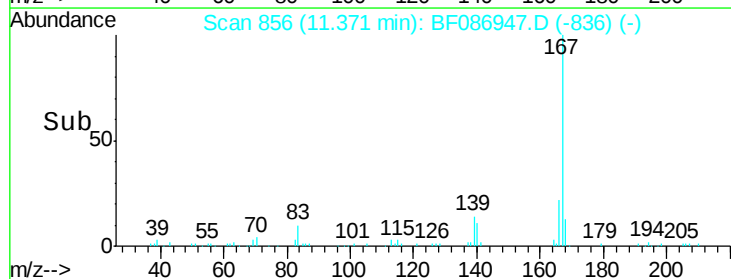
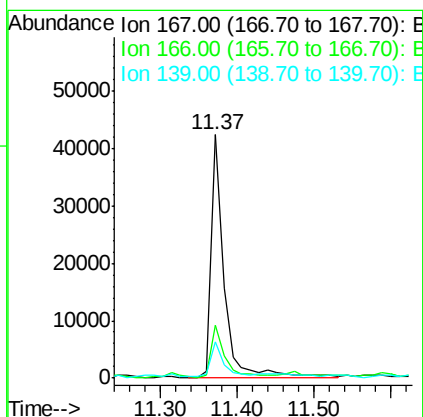
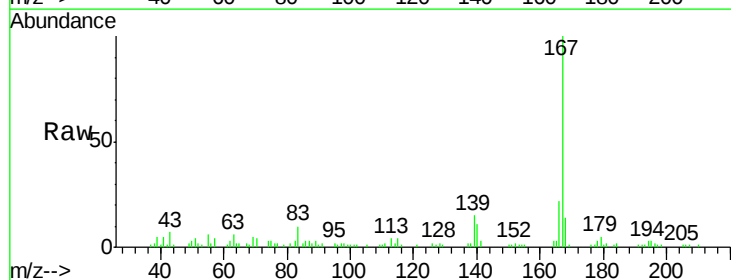
Instrument :
 BNA_F
 ClientSampleId :
 SPARTAPARK-1542-00(0-2)

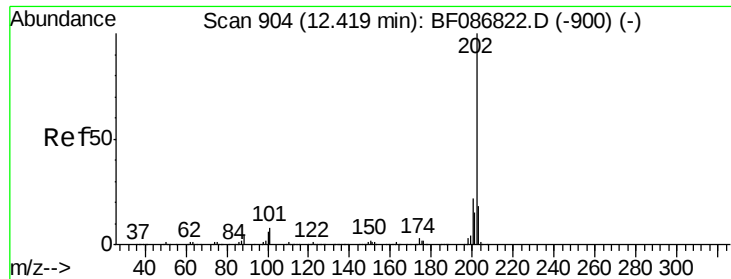
Tgt Ion:178 Resp: 105675
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.6 23.4
 179 15.3 12.7 19.1



#72
 Carbazole
 Concen: 2.92 ng
 RT: 11.37 min Scan# 856
 Delta R.T. -0.08 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Tgt Ion:167 Resp: 50138
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.7 26.5
 139 14.8 10.8 16.2





#74

Fluoranthene

Concen: 35.59 ng

RT: 12.34 min Scan# 941

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

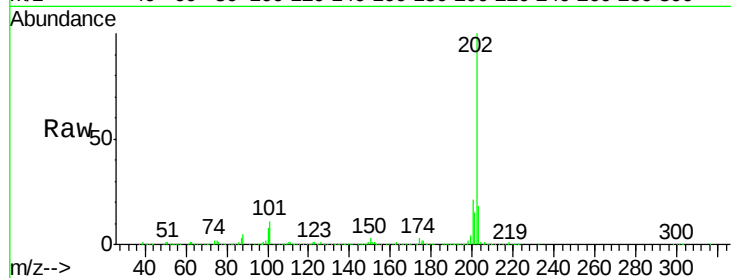
Tgt Ion:202 Resp: 715856

Ion Ratio Lower Upper

202 100

101 10.9 0.0 35.4

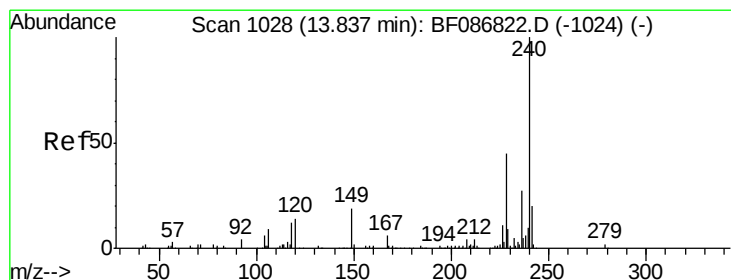
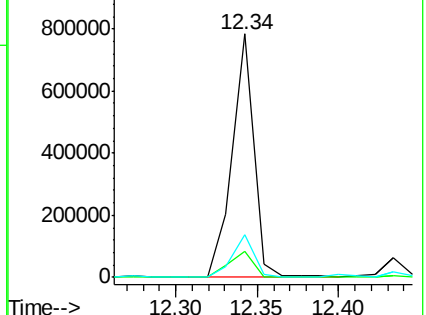
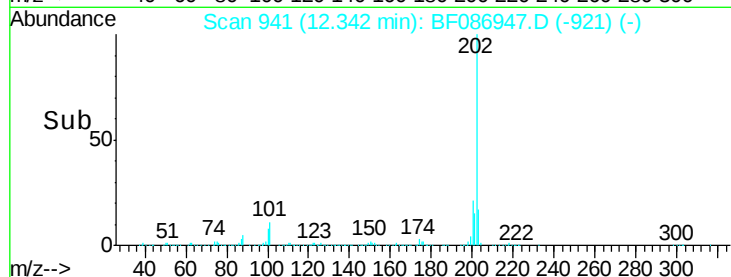
203 17.6 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

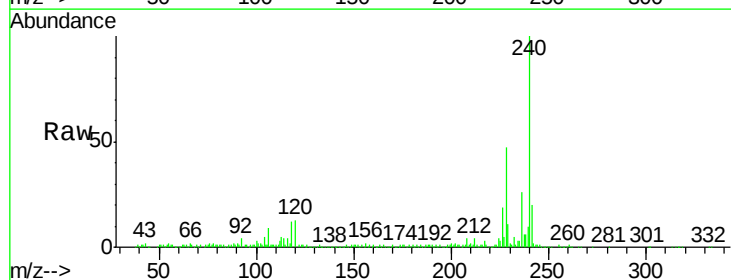
Tgt Ion:240 Resp: 283386

Ion Ratio Lower Upper

240 100

120 13.2 11.2 16.8

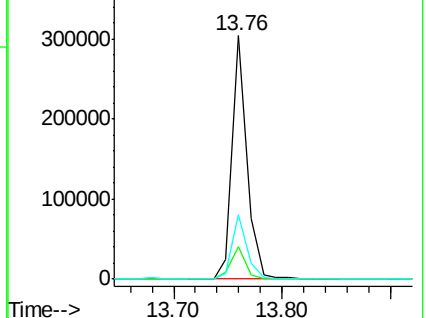
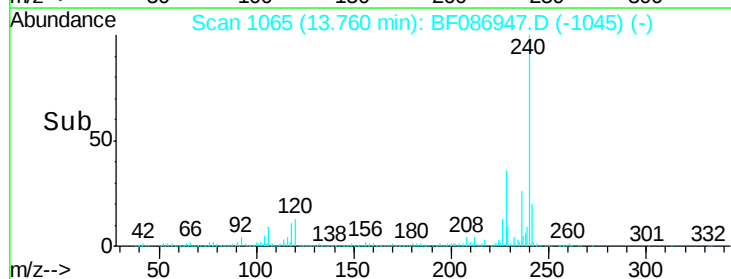
236 26.3 21.2 31.8

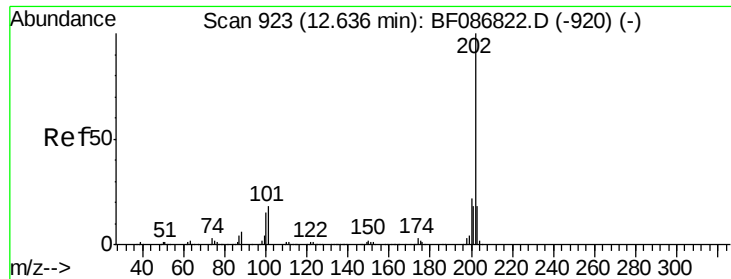


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 29.17 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.07 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

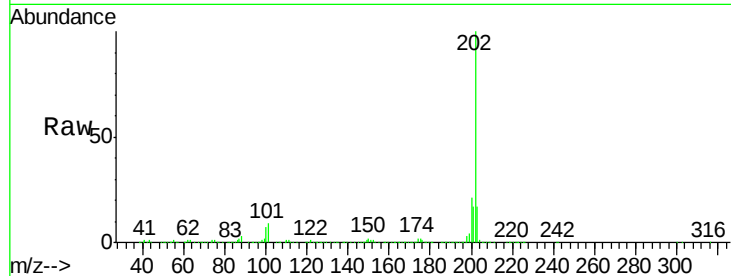
Tgt Ion:202 Resp: 632832

Ion Ratio Lower Upper

202 100

200 21.1 17.7 26.5

203 17.4 14.2 21.4

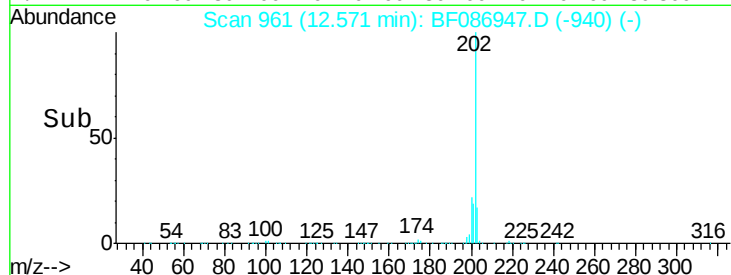


Abundance Ion 202.00 (201.70 to 202.70): E

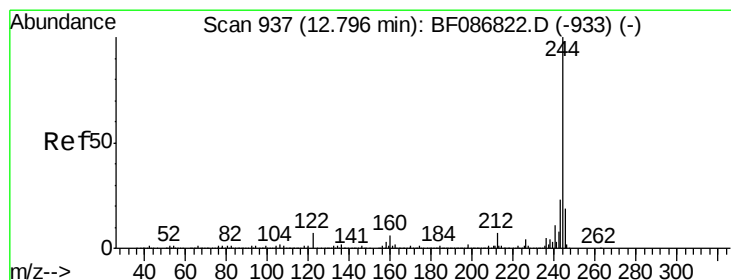
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.57



Time-->



#78

Terphenyl-d14

Concen: 56.29 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

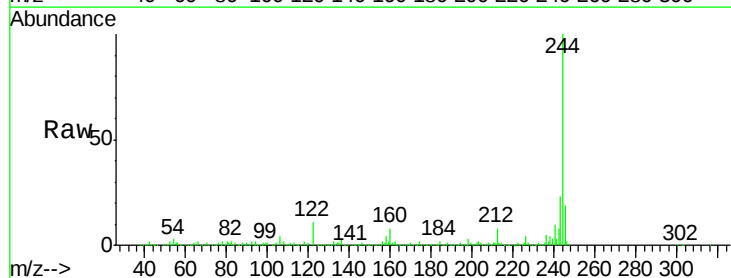
Tgt Ion:244 Resp: 751794

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

122 10.8 12.0 18.0#

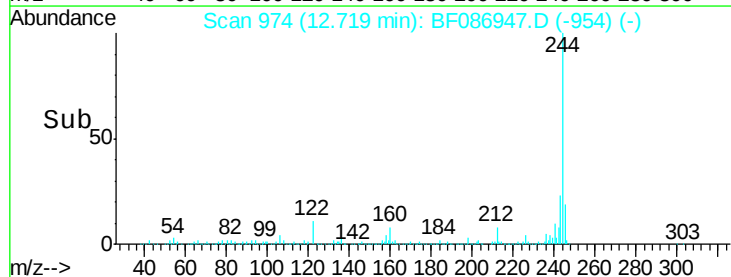


Abundance Ion 244.00 (243.70 to 244.70): E

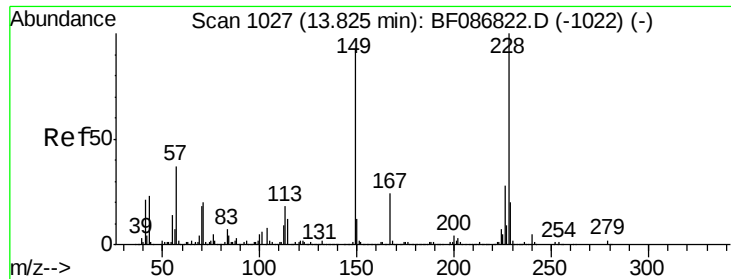
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.72



Time-->



#80

Benzo(a)anthracene

Concen: 26.56 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

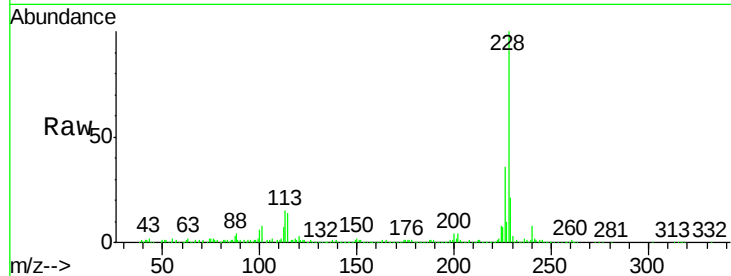
Tgt Ion:228 Resp: 422594

Ion Ratio Lower Upper

228 100

226 35.8 22.5 33.7#

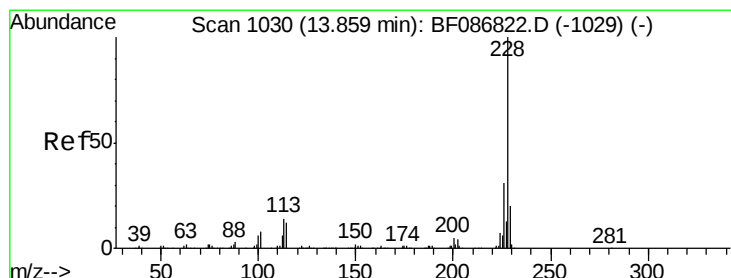
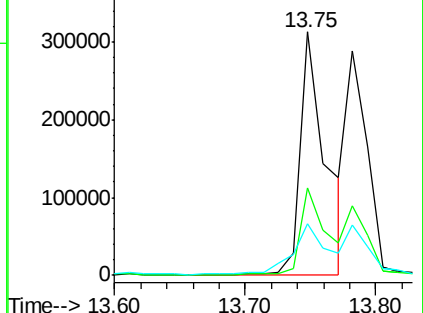
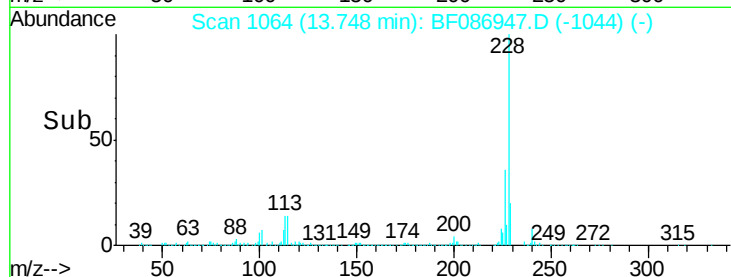
229 21.1 16.6 25.0



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



#82

Chrysene

Concen: 26.11 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.11 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

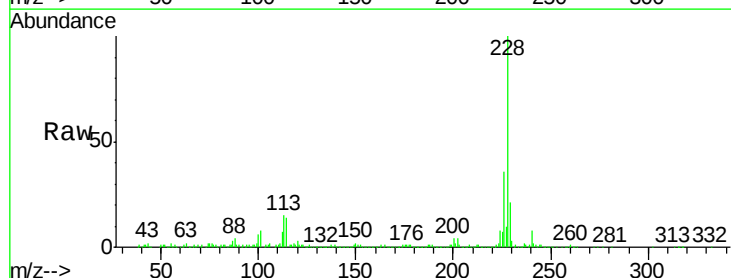
Tgt Ion:228 Resp: 422594

Ion Ratio Lower Upper

228 100

226 35.8 24.4 36.6

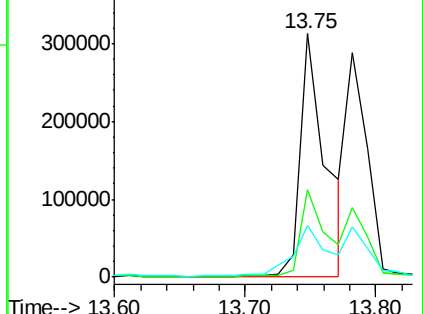
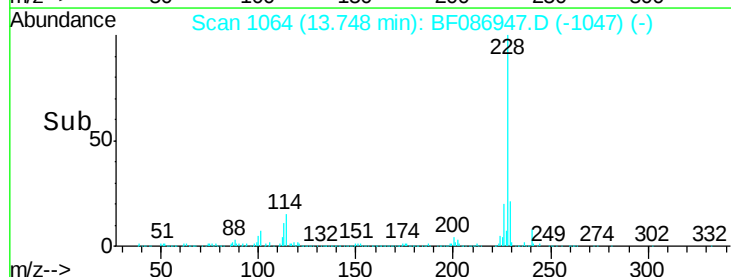
229 21.1 15.8 23.8

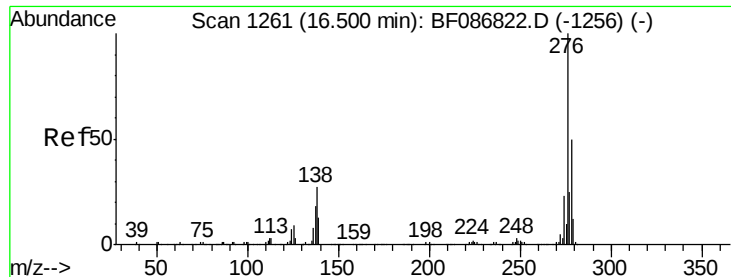


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

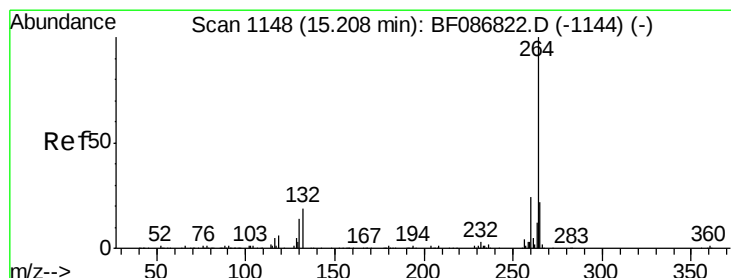
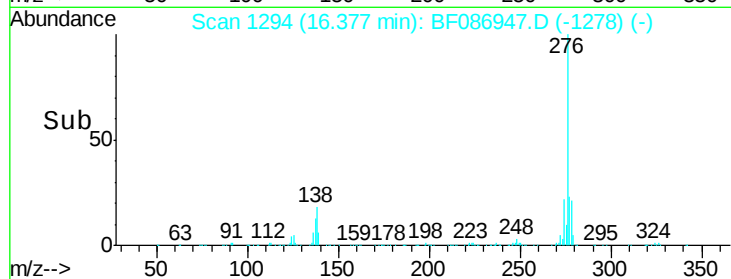
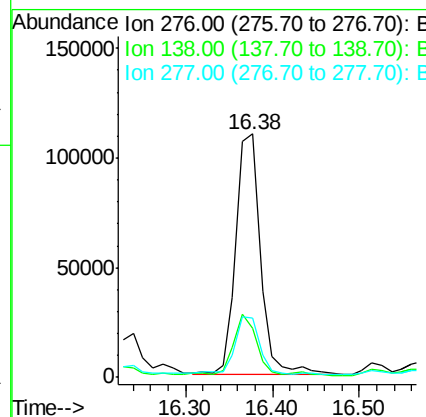
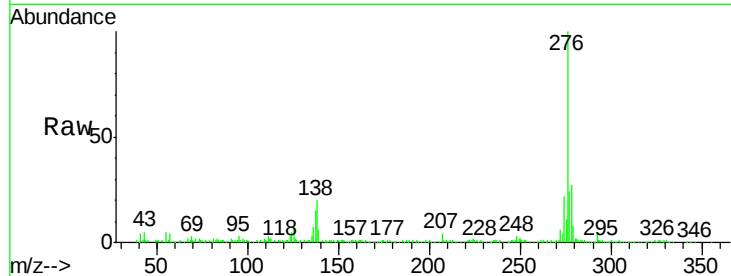




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 16.08 ng
 RT: 16.38 min Scan# 1294
 Delta R.T. -0.12 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

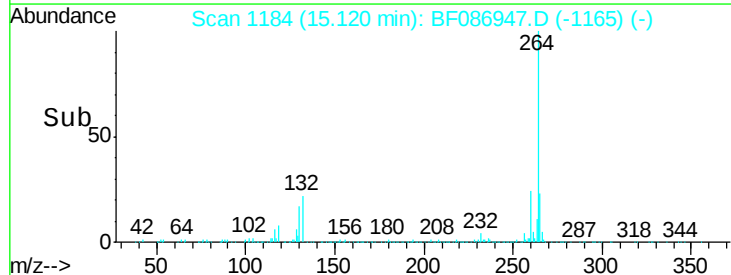
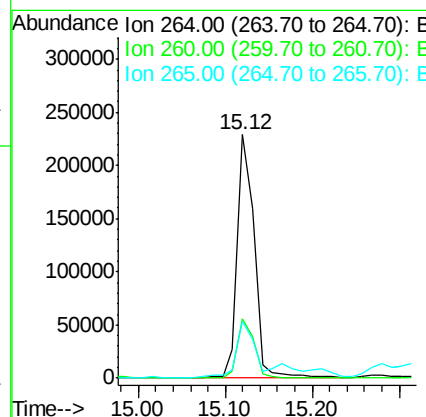
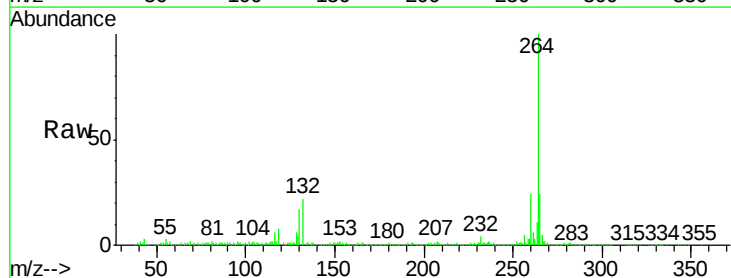
Instrument :
 BNA_F
 ClientSampleId :
 SPARTAPARK-1542-00(0-2)

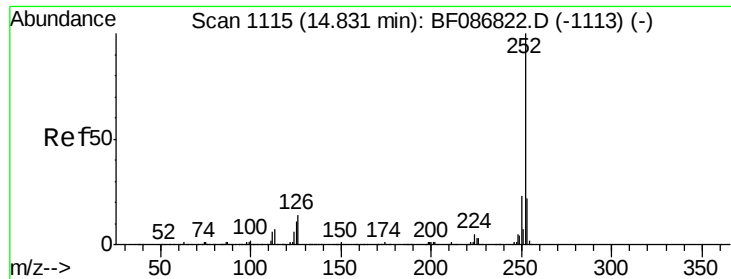
Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.1	25.6	38.4#
277	23.9	20.5	30.7



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.12 min Scan# 1184
 Delta R.T. -0.09 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	23.6	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 42.45 ng

RT: 14.75 min Scan# 1152

Delta R.T. -0.08 min

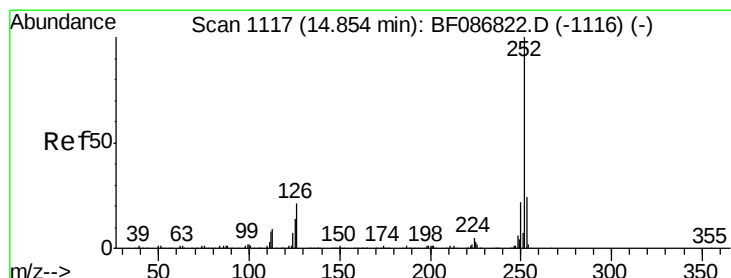
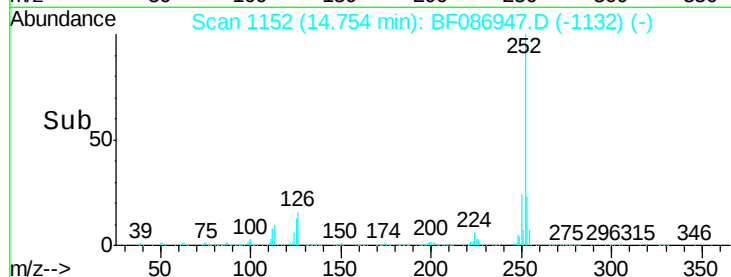
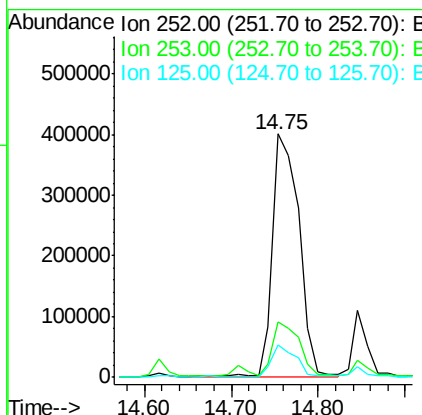
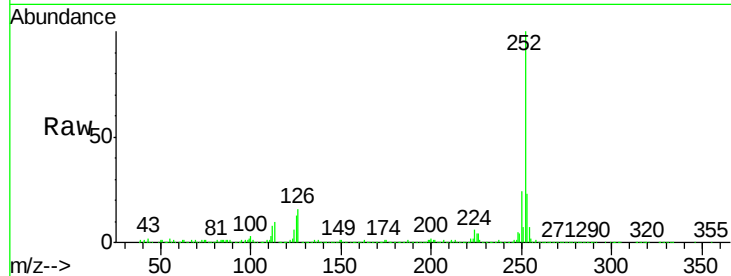
Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :
BNA_F
ClientSampleId :
SPARTAPARK-1542-00(0-2)

Tgt Ion:252 Resp: 843552

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.6
125	13.3	11.4	17.0



#88

Benzo(k)fluoranthene

Concen: 51.84 ng

RT: 14.75 min Scan# 1152

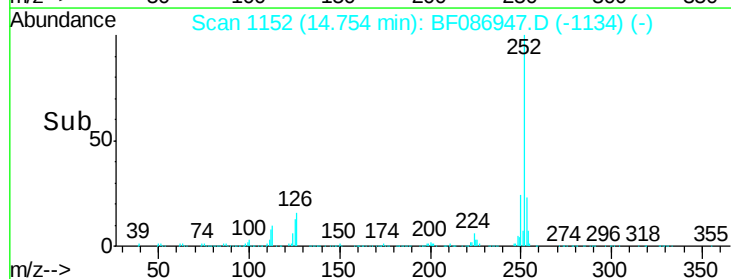
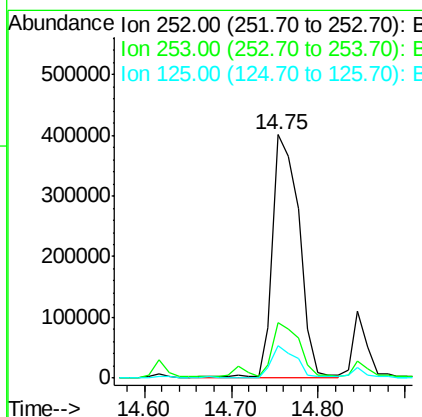
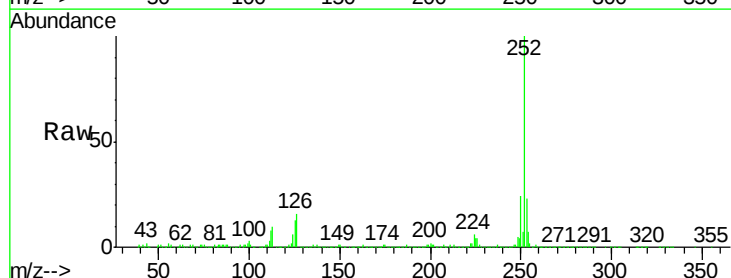
Delta R.T. -0.10 min

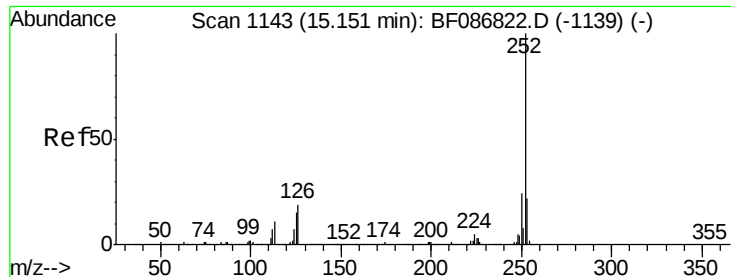
Lab File: BF086947.D

Acq: 12 May 2016 23:19

Tgt Ion:252 Resp: 843552

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.6
125	13.3	9.1	13.7





#89

Benzo(a)pyrene

Concen: 19.66 ng

RT: 15.07 min Scan# 1180

Delta R.T. -0.08 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

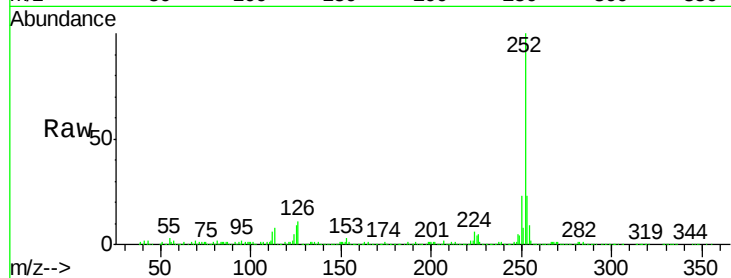
Tgt Ion:252 Resp: 336952

Ion Ratio Lower Upper

252 100

253 22.6 17.2 25.8

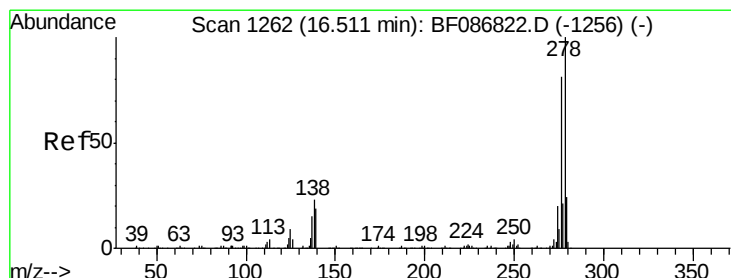
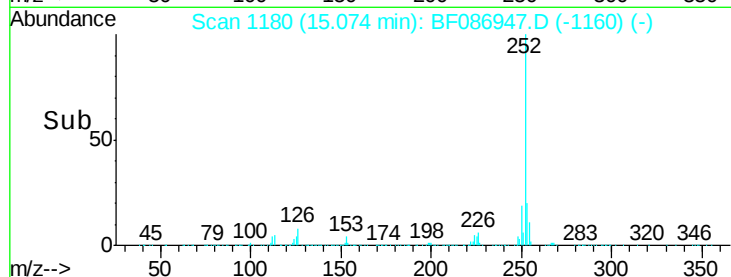
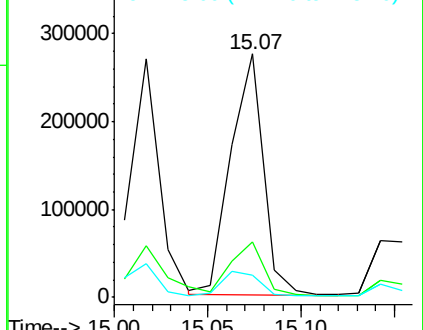
125 8.9 9.0 13.6#



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



#90

Dibenzo(a,h)anthracene

Concen: 3.25 ng

RT: 16.56 min Scan# 1310

Delta R.T. 0.05 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

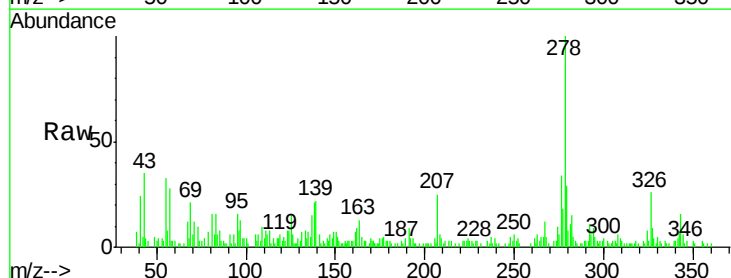
Tgt Ion:278 Resp: 46958

Ion Ratio Lower Upper

278 100

139 22.3 16.6 24.8

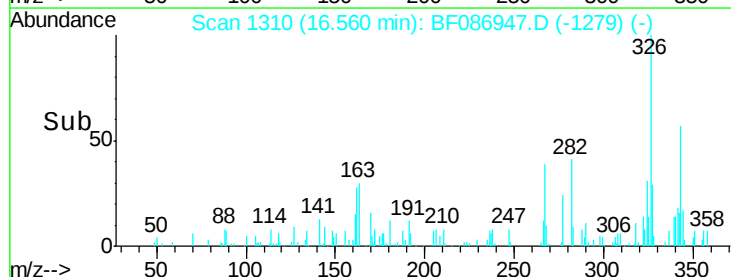
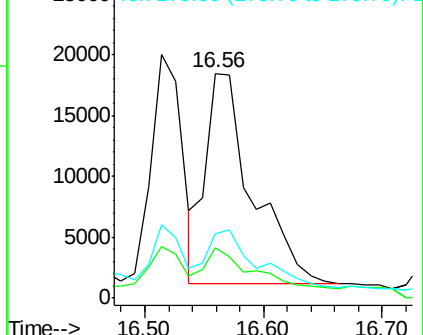
279 28.6 19.6 29.4

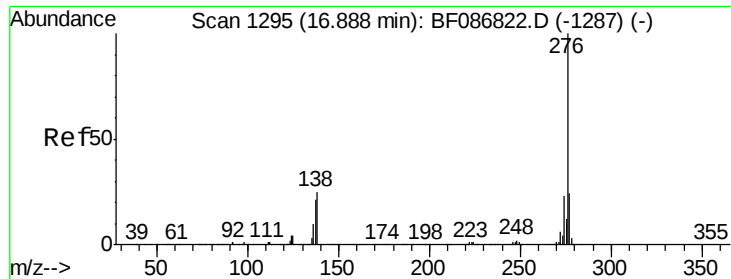


Abundance Ion 278.00 (277.70 to 278.70): E

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: 11.79 ng

RT: 16.74 min Scan# 1326

Delta R.T. -0.15 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SPARTAPARK-1542-00(0-2)

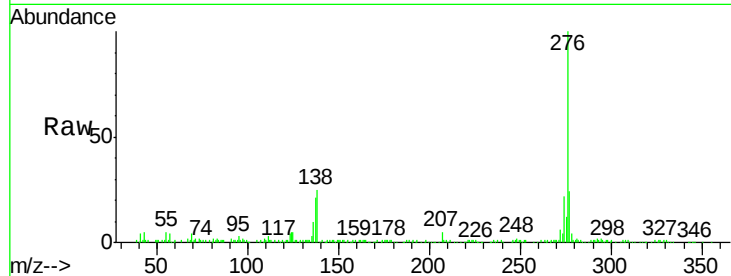
Tgt Ion: 276 Resp: 173095

Ion Ratio Lower Upper

276 100

277 24.4 19.6 29.4

138 24.8 23.6 35.4



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

