

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)

Manual Integrations
 APPROVED

sohil
 5/13/2016 8:07:33 PM

Quant Time: May 13 02:12:42 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 00:58:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	146117	20.00	ng	-0.01
21) Naphthalene-d8	7.91	136	582370	20.00	ng	-0.01
38) Acenaphthene-d10	9.66	164	251502	20.00	ng	-0.01
63) Phenanthrene-d10	11.13	188	366448	20.00	ng	-0.01
75) Chrysene-d12	13.76	240	283386	20.00	ng	-0.01
86) Perylene-d12	15.12	264	305787	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	906075	105.02	ng	0.01
7) Phenol-d6	6.30	99	1255032	108.84	ng	0.00
23) Nitrobenzene-d5	7.20	82	936346	80.73	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	218516	82.07	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	1292866	86.40	ng	0.00
78) Terphenyl-d14	12.72	244	751794	56.29	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	9.52	152	132570	5.75	ng	99
49) Dimethylphthalate	9.39	163	111313	5.80	ng	# 98
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	13.78	228	325945m	20.14	ng	
85) Indeno(1,2,3-cd)pyrene	16.38	276	218188m	16.20	ng	
87) Benzo(b)fluoranthene	14.75	252	773748m	38.93	ng	
88) Benzo(k)fluoranthene	14.78	252	66259m	4.07	ng	
89) Benzo(a)pyrene	15.07	252	336952	19.66	ng	# 96
90) Dibenzo(a,h)anthracene	16.38	278	74150m	5.13	ng	
91) Benzo(g,h,i)perylene	16.74	276	172840	11.77	ng	95

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

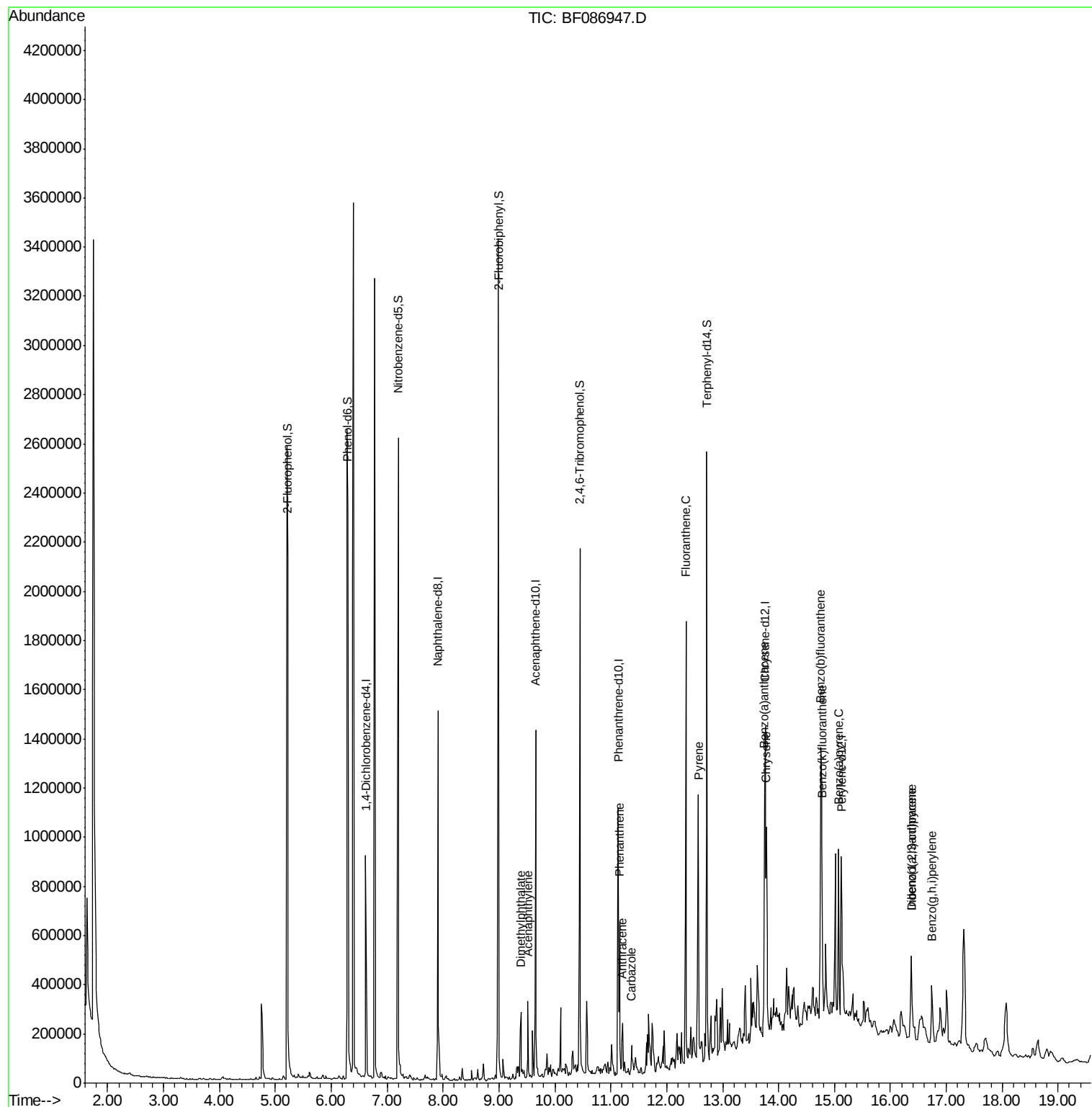
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
Data File : BF086947.D
Acq On : 12 May 2016 23:19
Operator : UM/SJ
Sample : H2994-05
Misc :
ALS Vial : 21 Sample Multiplier: 1

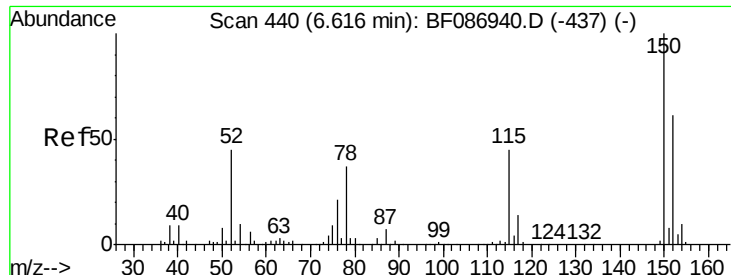
Instrument :
BNA_F
ClientSampleId :
SPARTAPARK-1542-00(0-2)

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM

Quant Time: May 13 02:12:42 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 13 00:58:18 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.01 min

Lab File: BF086947.D

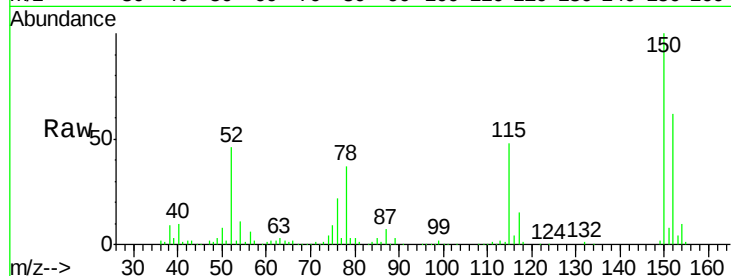
Acq: 12 May 2016 23:19

Instrument :

BNA_F

ClientSampleId :

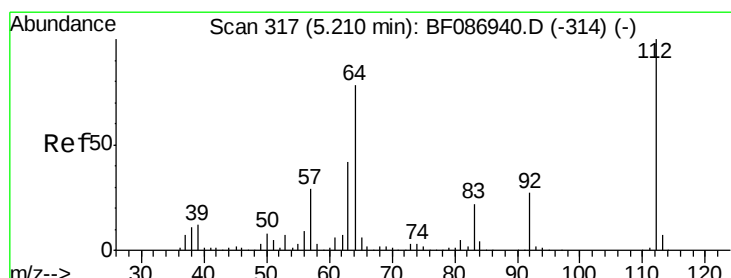
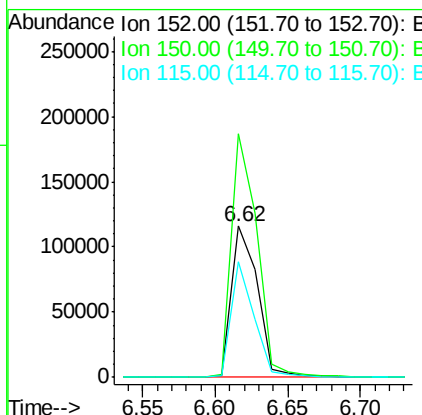
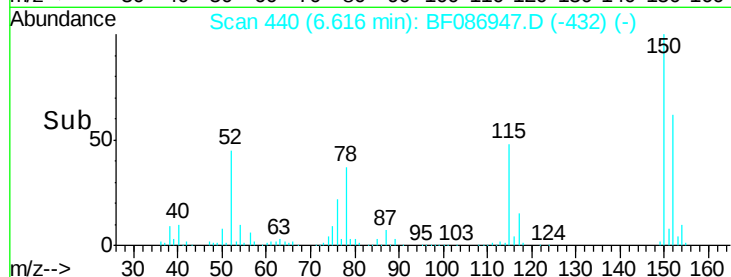
SPARTAPARK-1542-00(0-2)



Tgt Ion:	152	Resp:	146117
Ion Ratio	Lower	Upper	
152	100		
150	161.2	125.8	188.6
115	76.7	51.5	77.3

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



#5

2-Fluorophenol

Concen: 105.02 ng

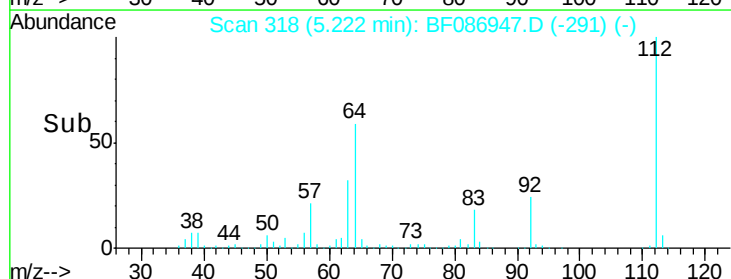
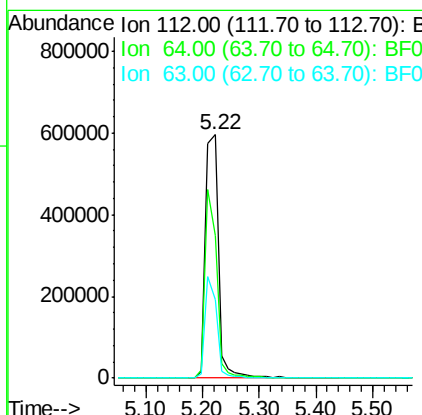
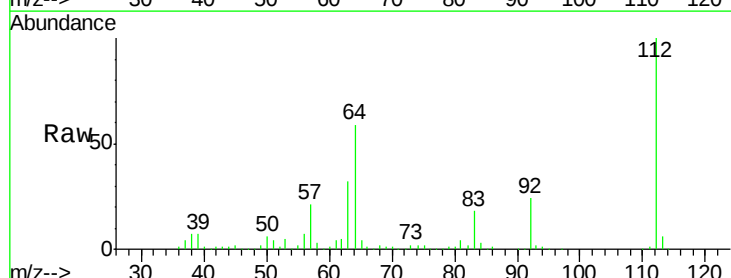
RT: 5.22 min Scan# 318

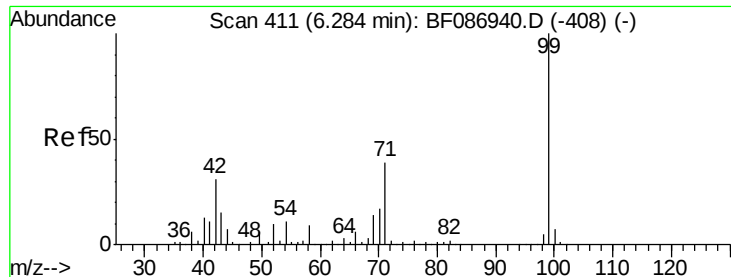
Delta R.T. 0.01 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Tgt Ion:	112	Resp:	906075
Ion Ratio	Lower	Upper	
112	100		
64	58.5	52.1	78.1
63	32.0	25.7	38.5





#7

Phenol-d6

Concen: 108.84 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.00 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

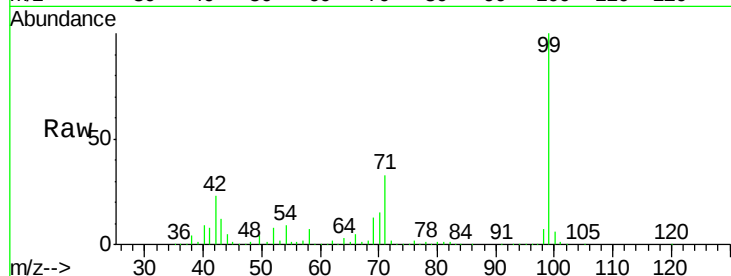
99 100

42 23.2 13.6 20.4#

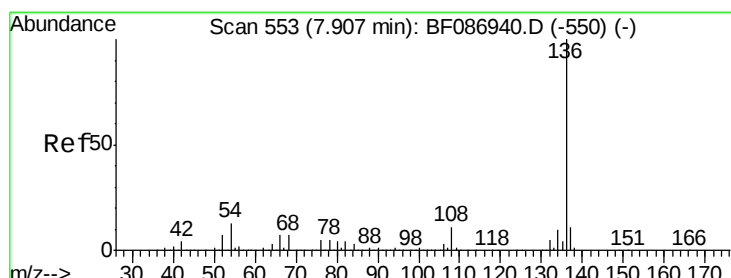
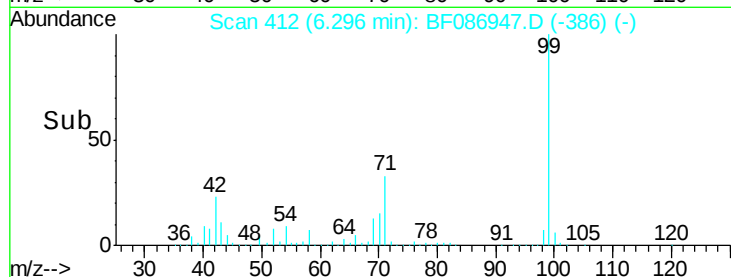
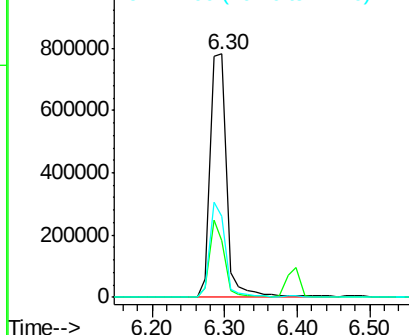
71 33.2 24.6 36.8

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

Delta R.T. -0.01 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Tgt Ion: 136 Resp: 582370

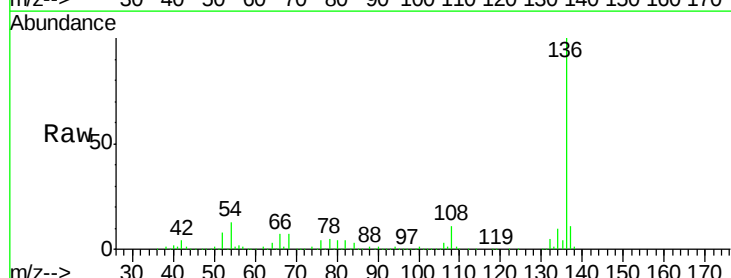
Ion Ratio Lower Upper

136 100

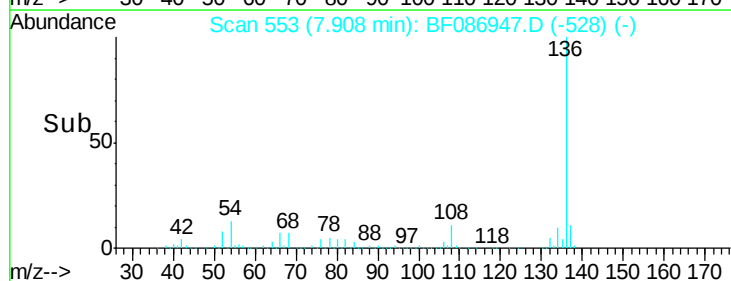
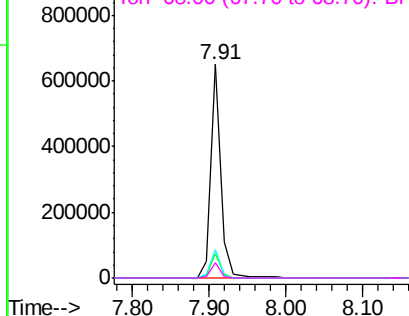
137 11.5 8.8 13.2

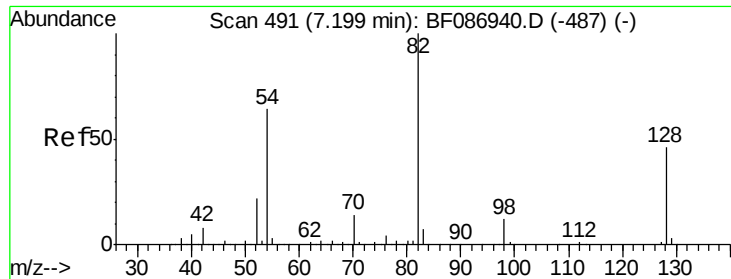
54 13.1 5.0 7.4#

68 7.1 4.4 6.6#



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





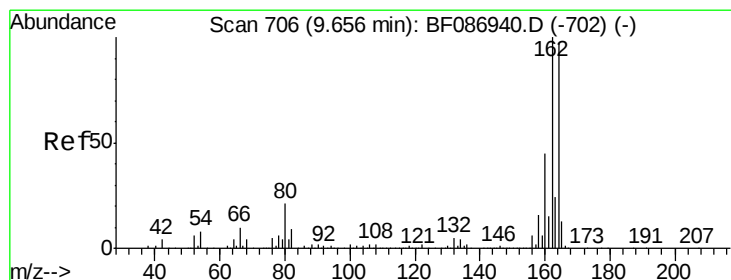
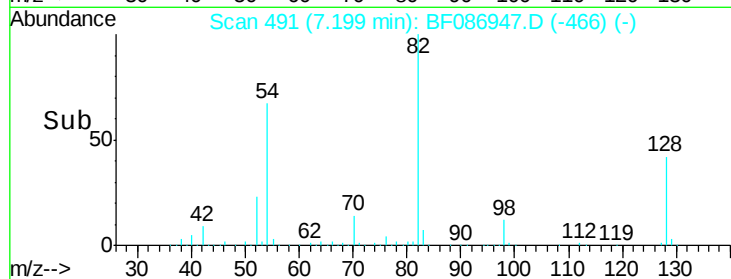
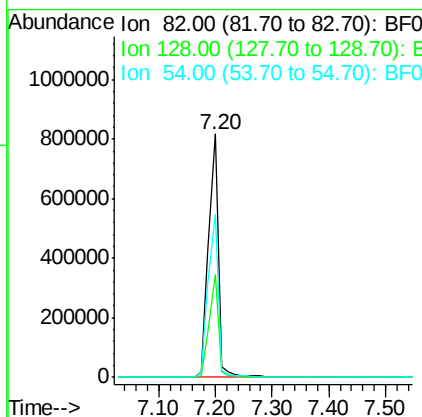
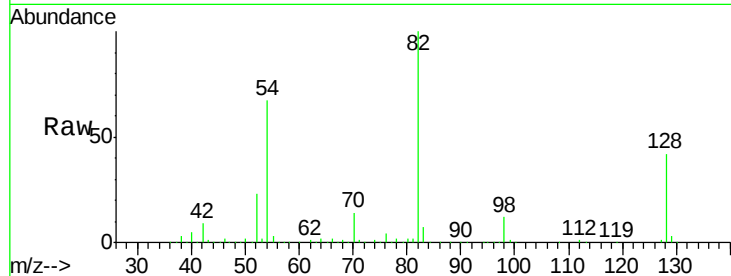
#23
Nitrobenzene-d5
Concen: 80.73 ng
RT: 7.20 min Scan# 491
Delta R.T. -0.01 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

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

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

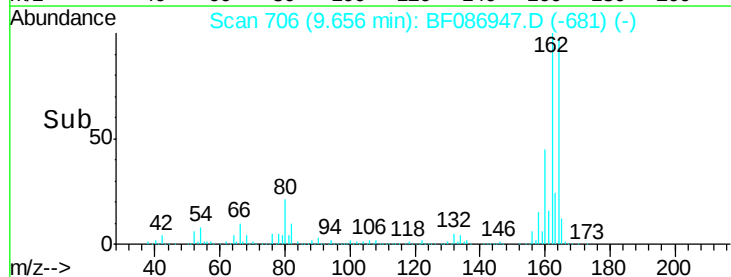
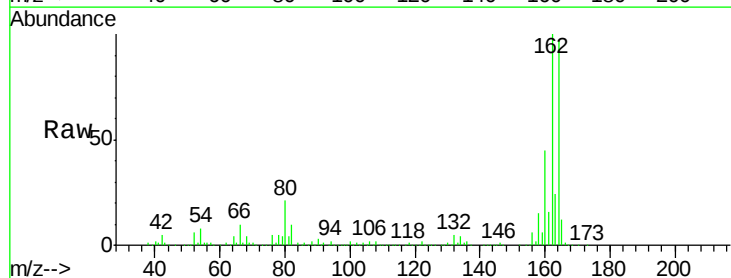
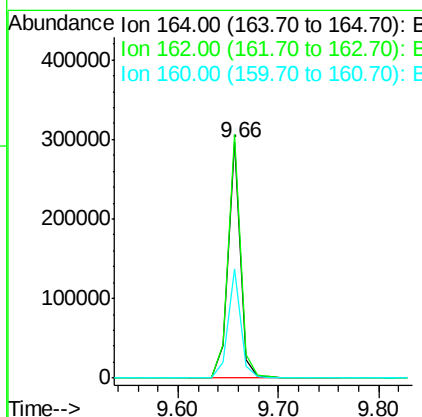
Manual Integrations
APPROVED

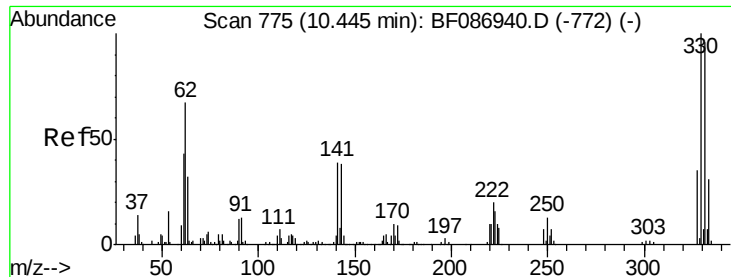
sohil
5/13/2016 8:07:33 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.66 min Scan# 706
Delta R.T. -0.01 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	251502		
162	103.2	82.8	124.2	
160	46.3	36.9	55.3	





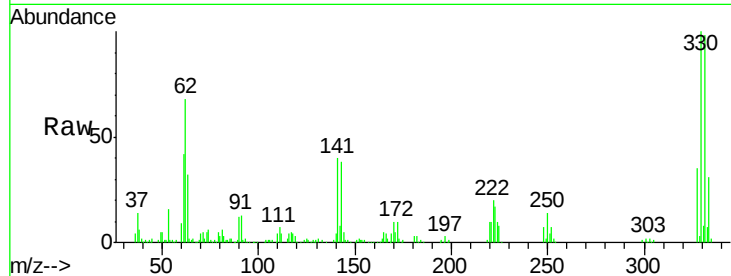
#41
 2,4,6-Tribromophenol
 Concen: 82.07 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

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

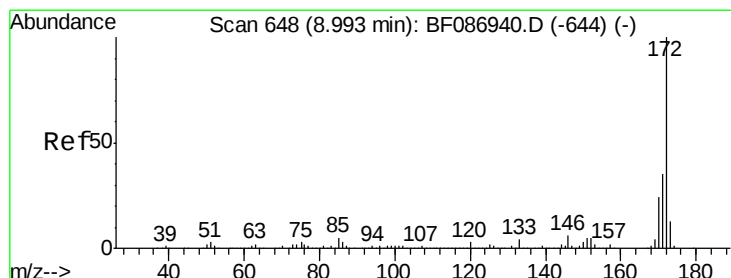
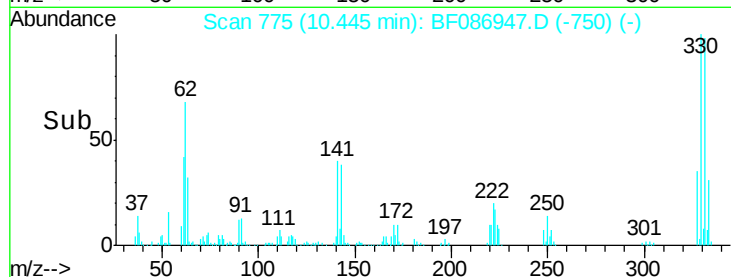
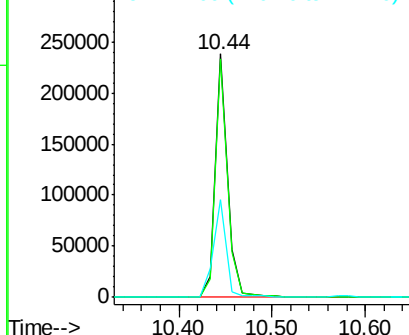
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	218516		
332	97.8	79.0	118.4	
141	42.1	31.2	46.8	

Manual Integrations
 APPROVED

sohil
 5/13/2016 8:07:33 PM

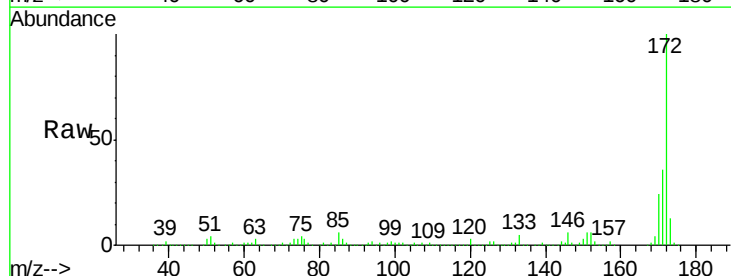


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

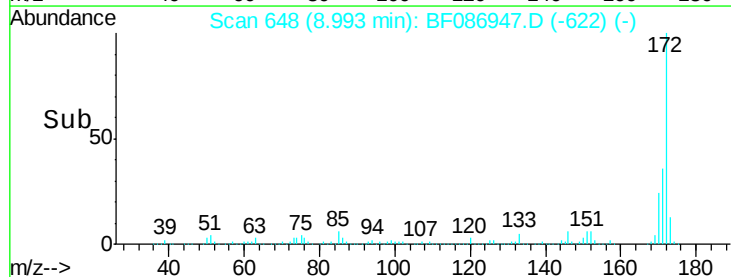
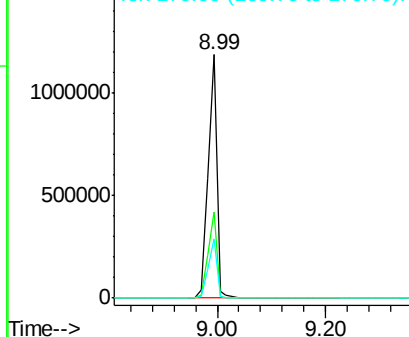


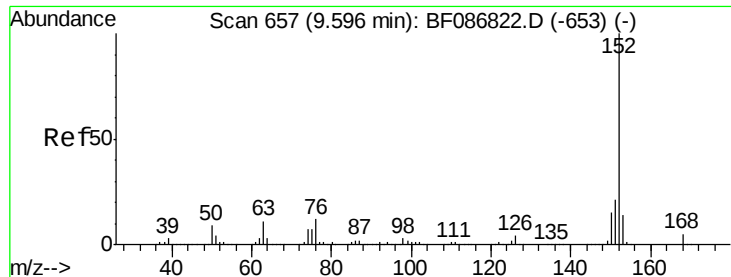
#44
 2-Fluorobiphenyl
 Concen: 86.40 ng
 RT: 8.99 min Scan# 648
 Delta R.T. 0.00 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1292866		
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. -0.01 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

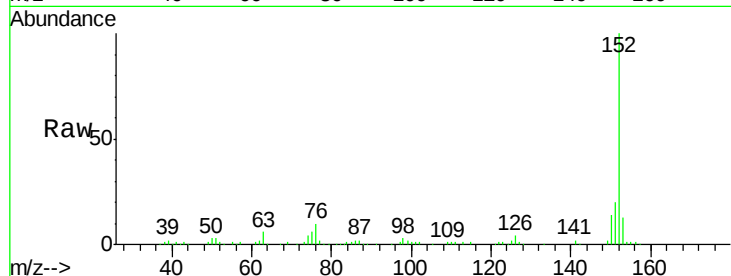
ClientSampleId :

SPARTAPARK-1542-00(0-2)

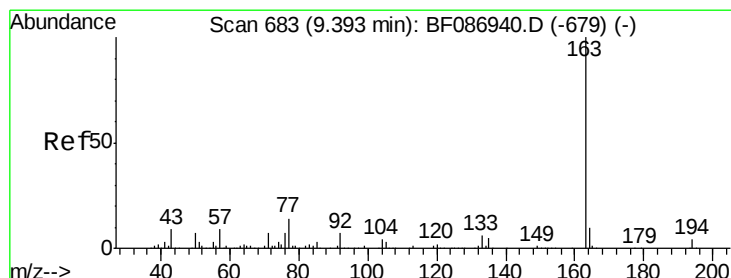
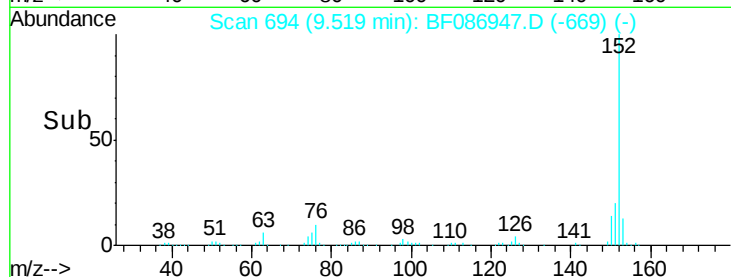
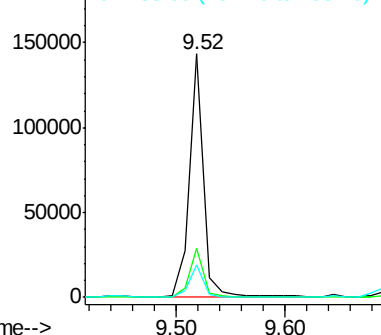
Tgt Ion:	152	Resp:	132570
Ion Ratio		Lower	Upper
152	100		
151	20.2	16.8	25.2
153	13.4	10.9	16.3

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



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

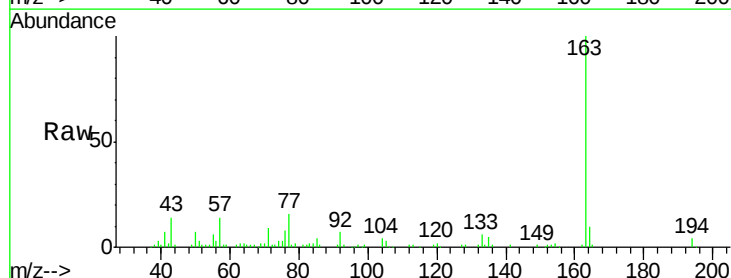
RT: 9.39 min Scan# 683

Delta R.T. -0.01 min

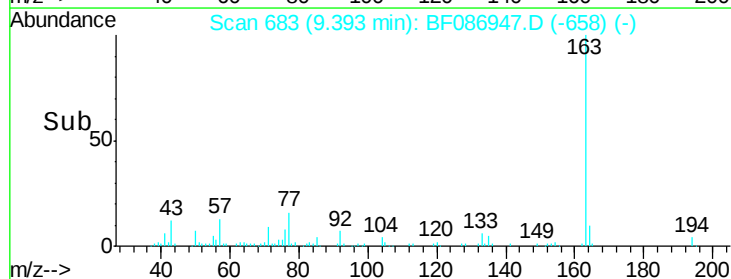
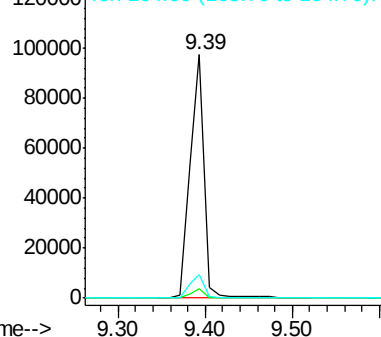
Lab File: BF086947.D

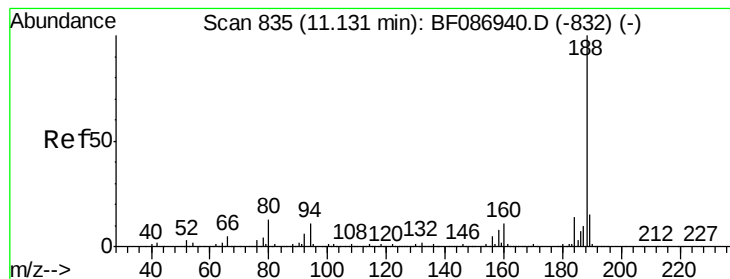
Acq: 12 May 2016 23:19

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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.13 min Scan# 835

Delta R.T. -0.01 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

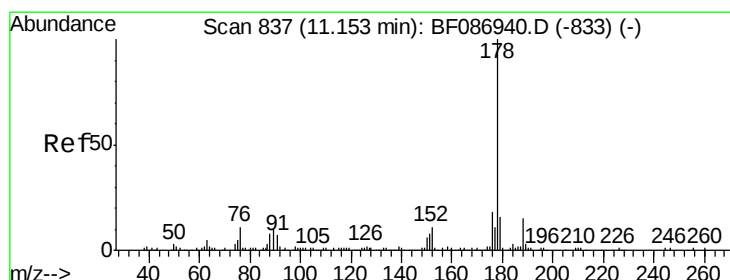
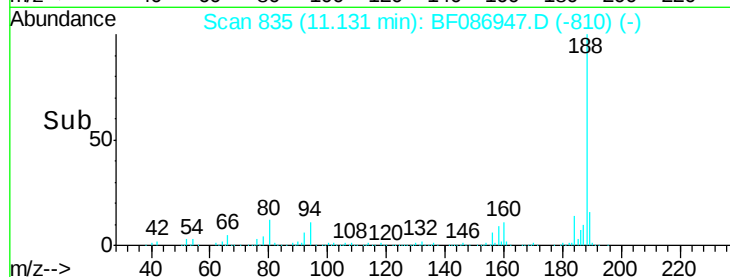
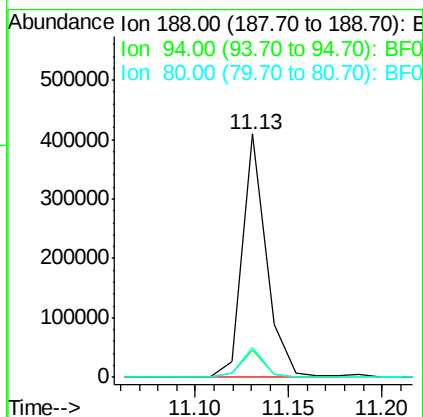
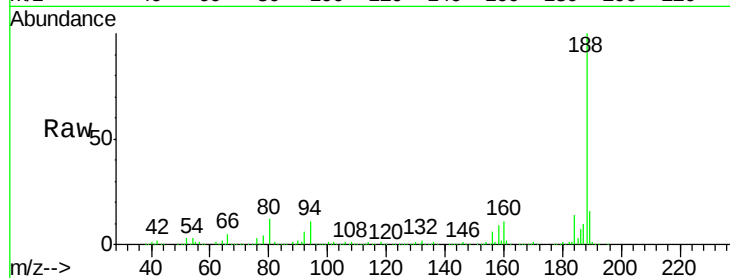
ClientSampleId :

SPARTAPARK-1542-00(0-2)

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#

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



#70

Phenanthrene

Concen: 10.94 ng

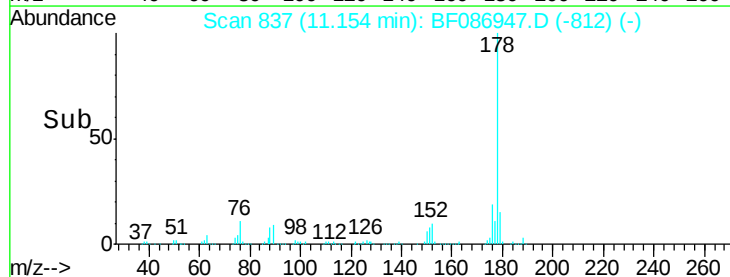
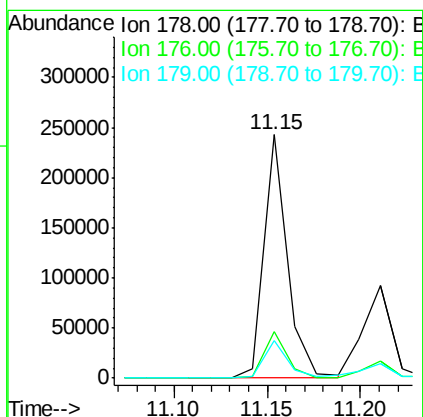
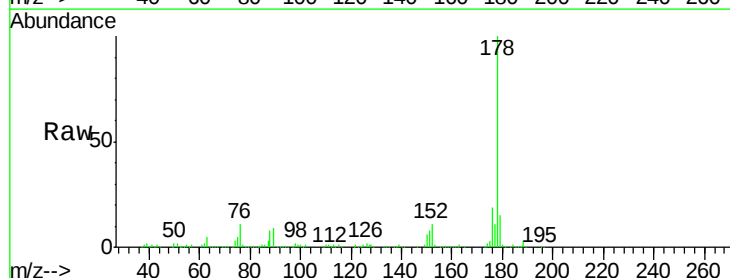
RT: 11.15 min Scan# 837

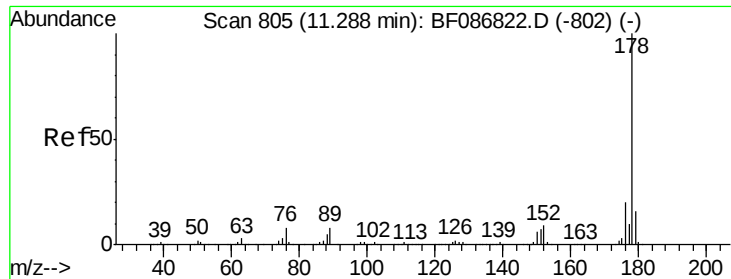
Delta R.T. -0.01 min

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





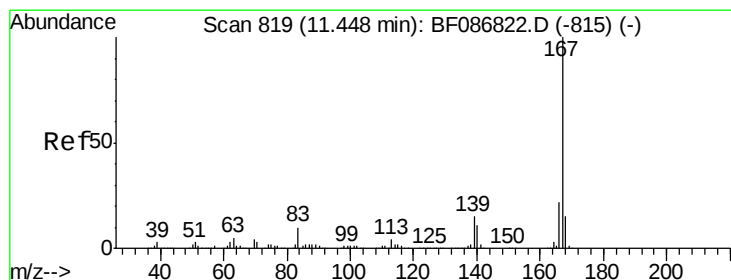
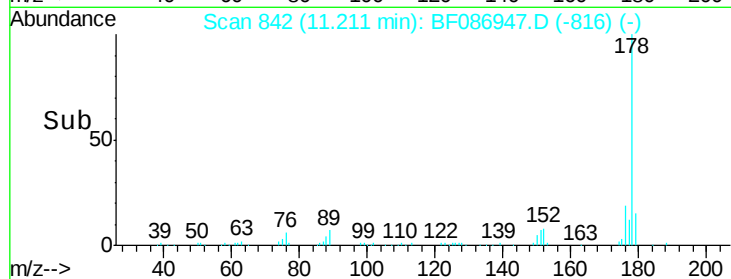
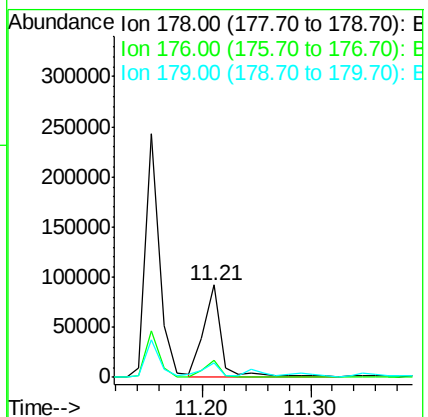
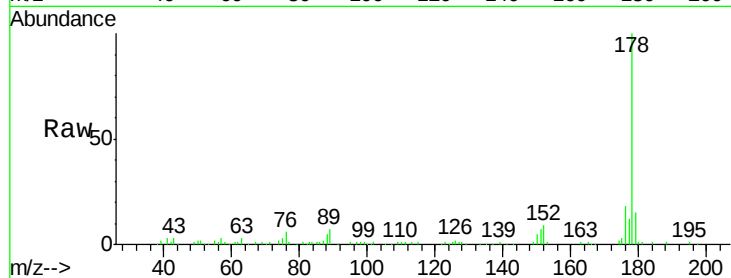
#71
 Anthracene
 Concen: 5.28 ng
 RT: 11.21 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

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

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

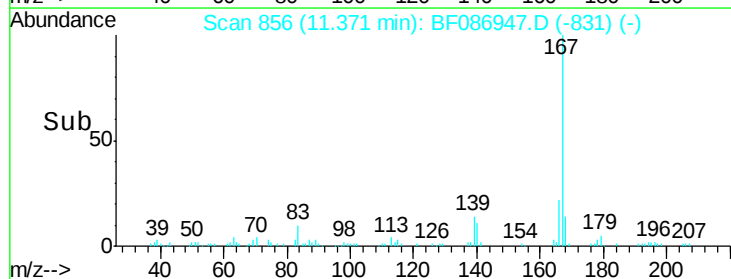
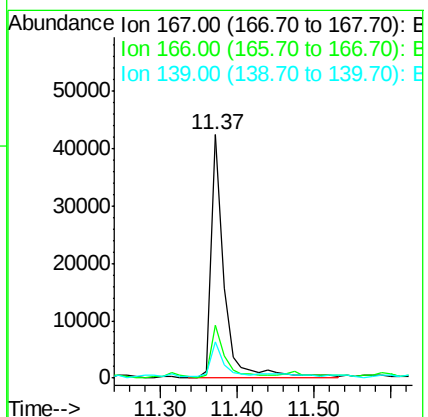
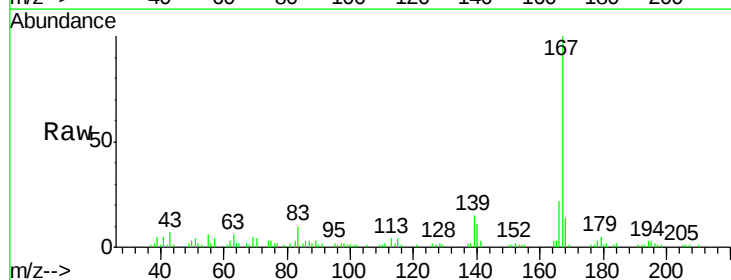
Manual Integrations
 APPROVED

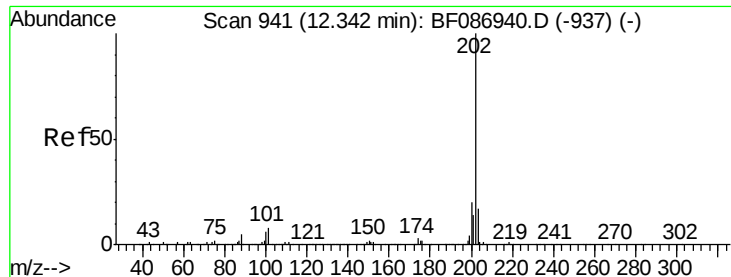
sohil
 5/13/2016 8:07:33 PM



#72
 Carbazole
 Concen: 2.92 ng
 RT: 11.37 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Tgt 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. 0.00 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

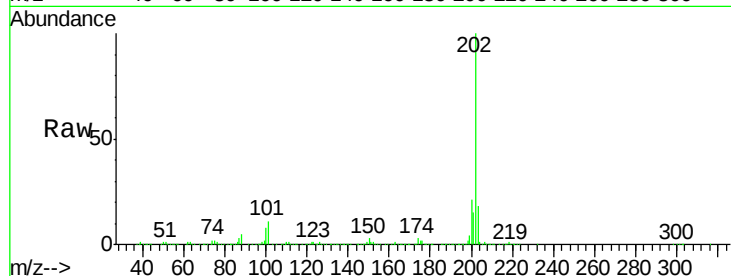
ClientSampleId :

SPARTAPARK-1542-00(0-2)

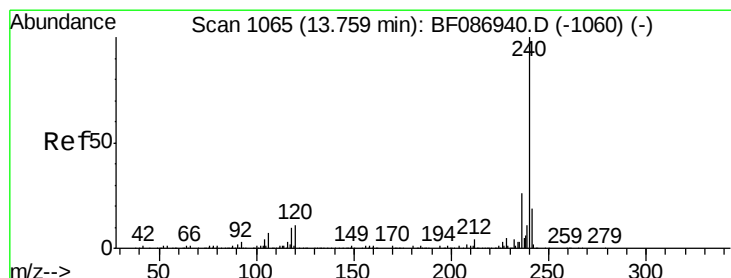
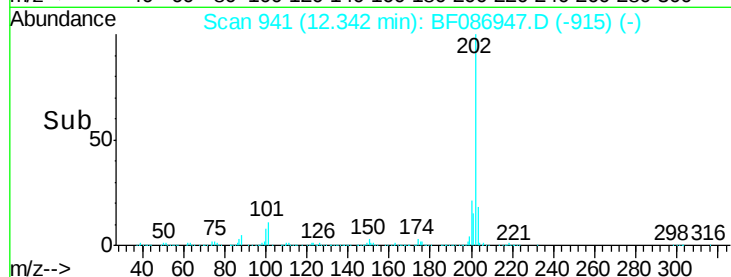
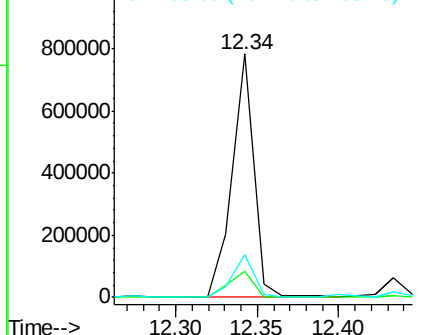
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		715856		
101	10.9	0.0	35.4		
203	17.6	0.0	38.1		

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



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

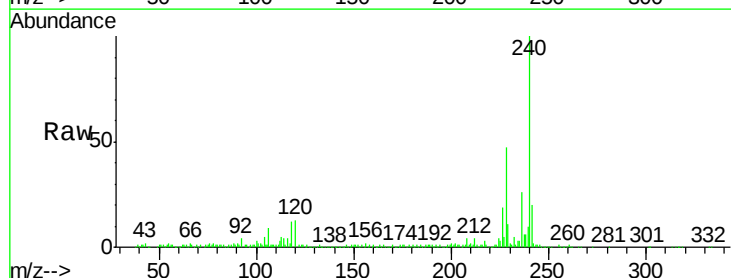
RT: 13.76 min Scan# 1065

Delta R.T. -0.01 min

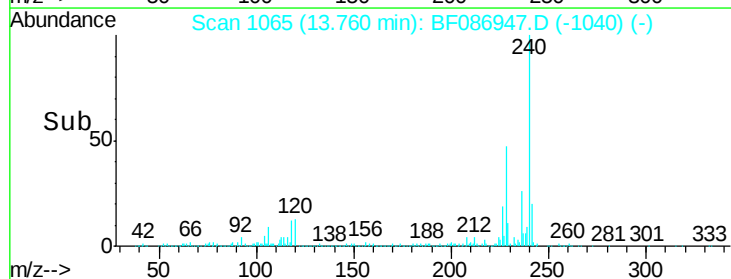
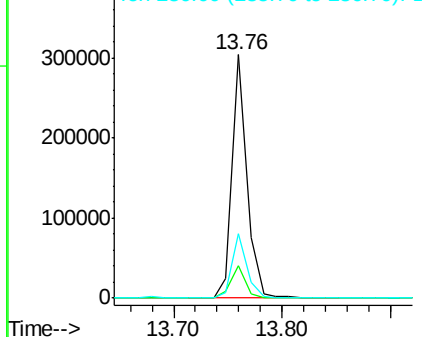
Lab File: BF086947.D

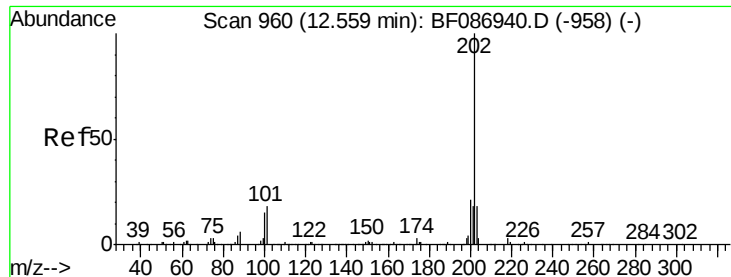
Acq: 12 May 2016 23:19

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		283386		
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. 0.00 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

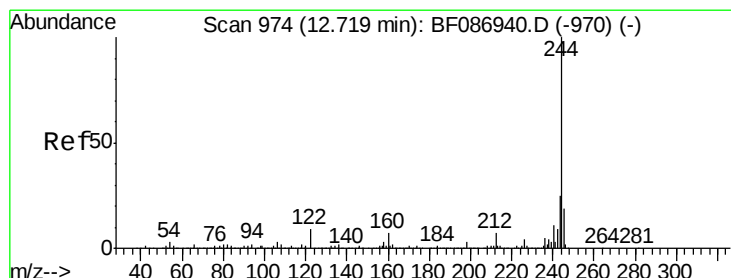
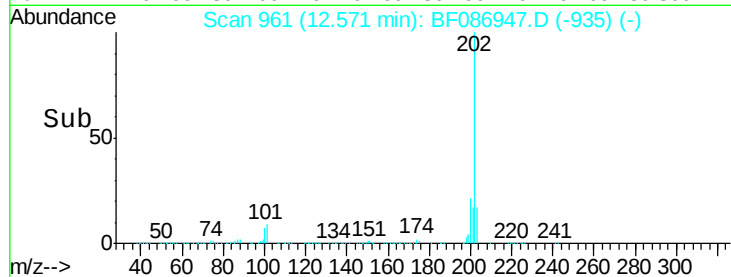
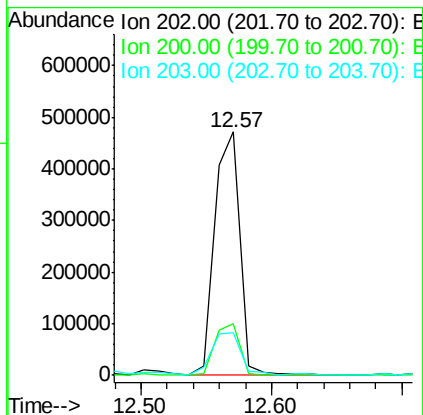
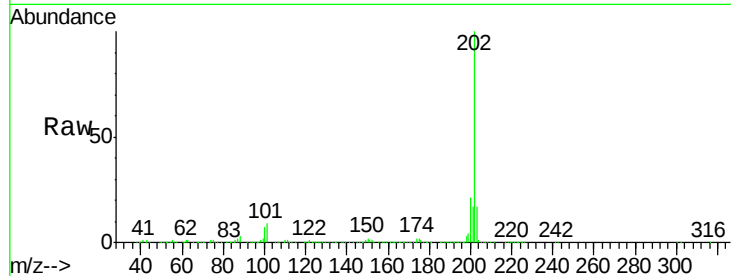
ClientSampleId :

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

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



#78

Terphenyl-d14

Concen: 56.29 ng

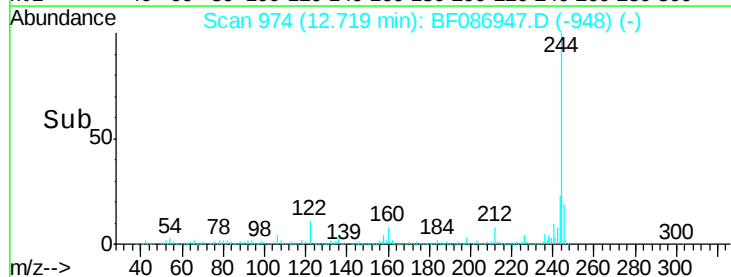
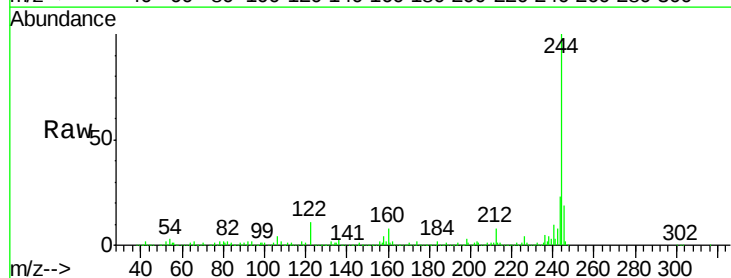
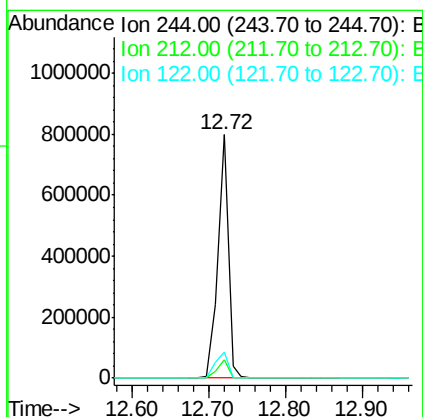
RT: 12.72 min Scan# 974

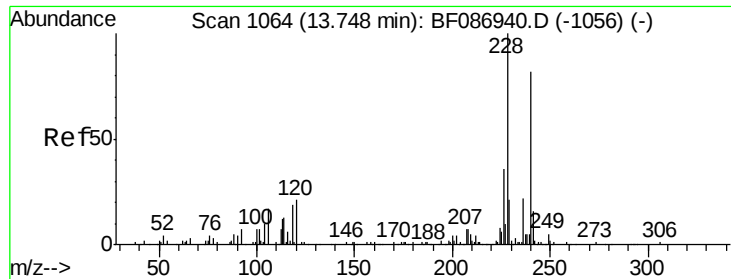
Delta R.T. 0.00 min

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#





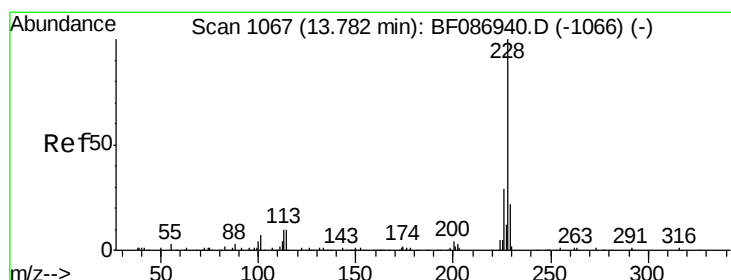
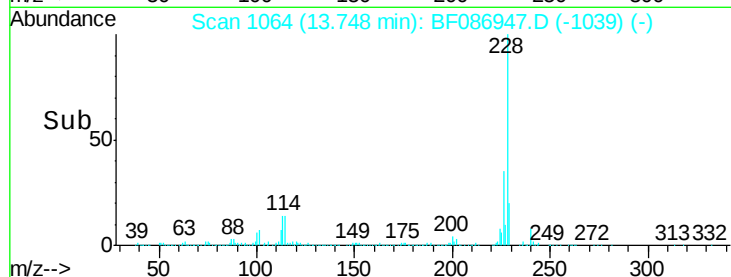
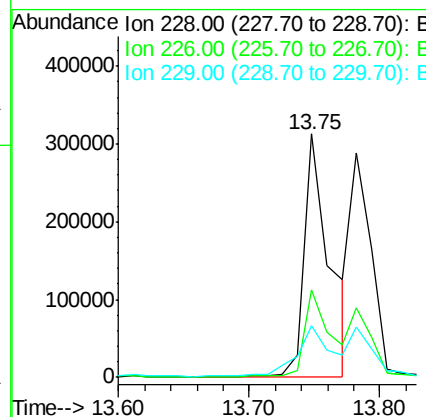
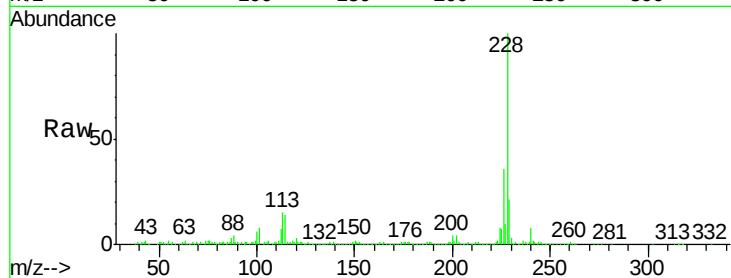
#80
Benzo(a)anthracene
Concen: 26.56 ng
RT: 13.75 min Scan# 1064
Delta R.T. -0.01 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

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

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.8	22.5	33.7#
229	21.1	16.6	25.0

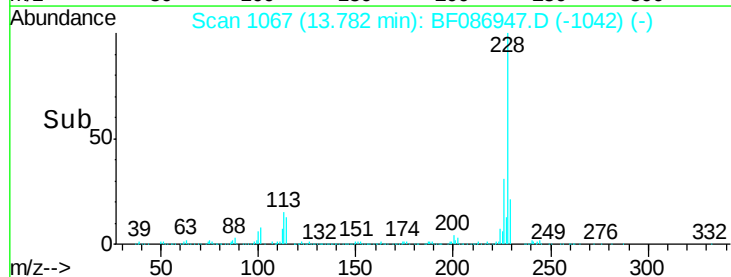
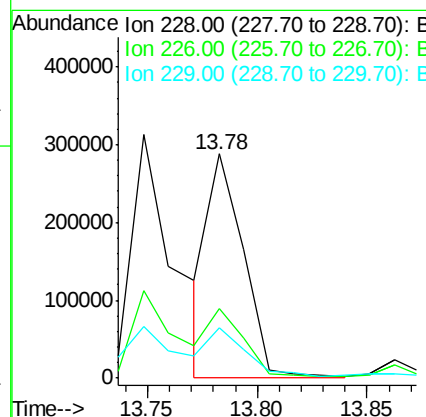
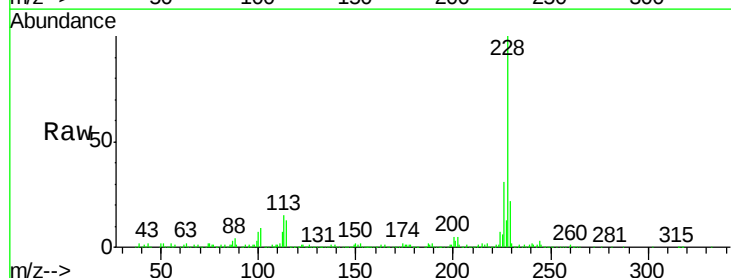
Manual Integrations
APPROVED

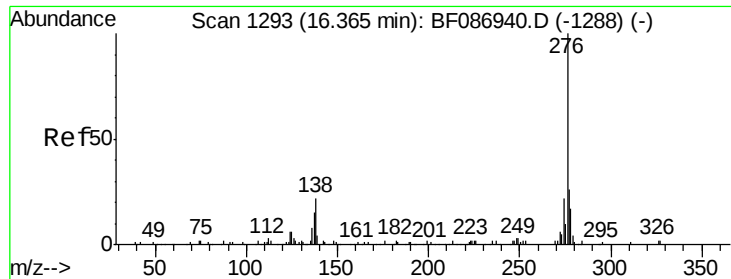
sohil
5/13/2016 8:07:33 PM



#82
Chrysene
Concen: 20.14 ng m
RT: 13.78 min Scan# 1067
Delta R.T. -0.01 min
Lab File: BF086947.D
Acq: 12 May 2016 23:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.4	36.6
229	22.4	15.8	23.8





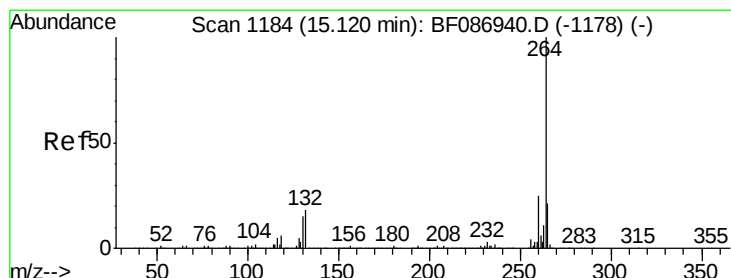
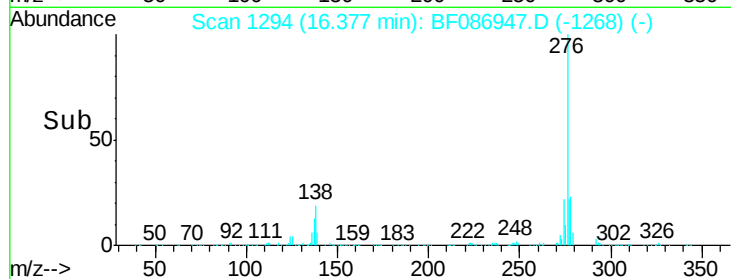
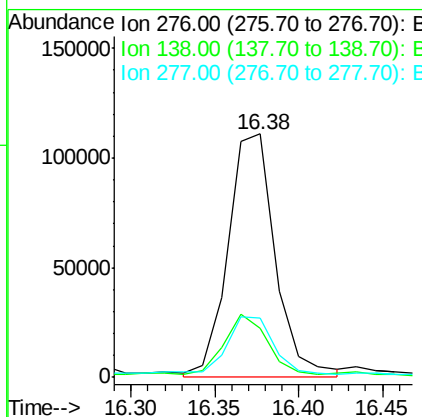
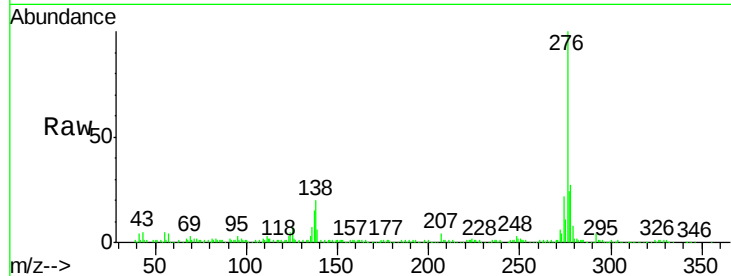
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 16.20 ng m
 RT: 16.38 min Scan# 1294
 Delta R.T. 0.00 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

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

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	218188		
138	5.5	25.6	38.4#	
277	5.1	20.5	30.7#	

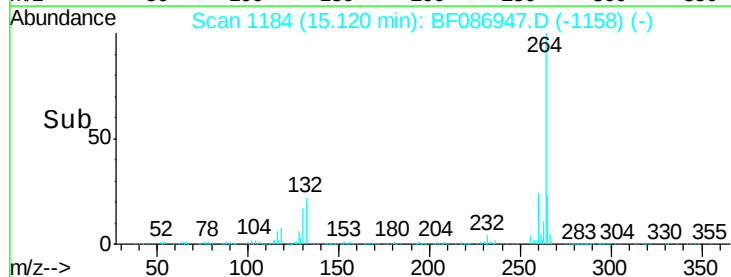
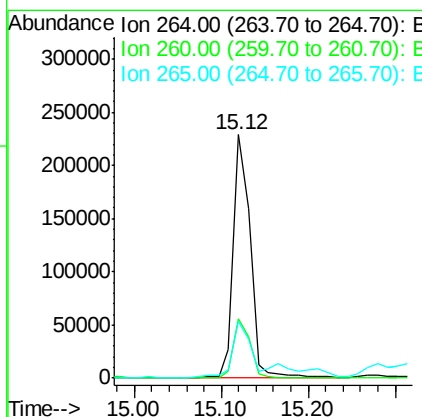
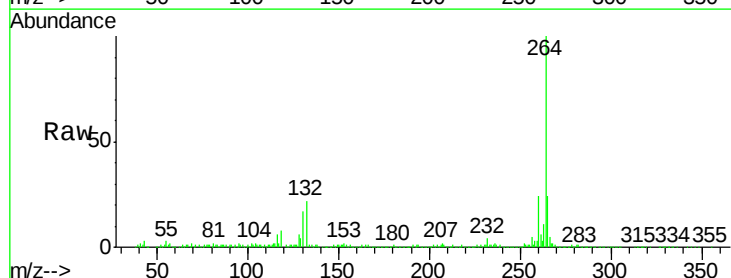
Manual Integrations
 APPROVED

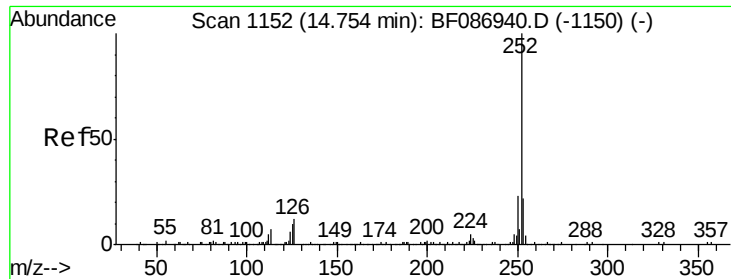
sohil
 5/13/2016 8:07:33 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.12 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: BF086947.D
 Acq: 12 May 2016 23:19

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	305787		
260	24.1	19.5	29.3	
265	23.6	17.3	25.9	





#87

Benzo(b)fluoranthene

Concen: 38.93 ng m

RT: 14.75 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

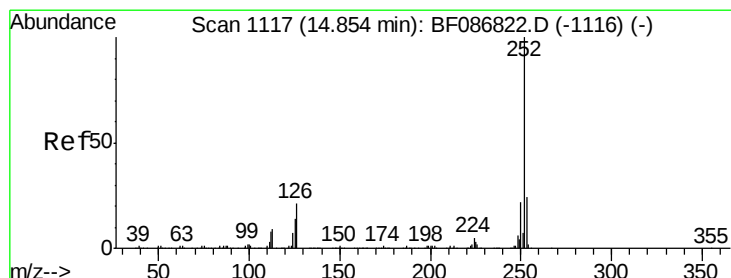
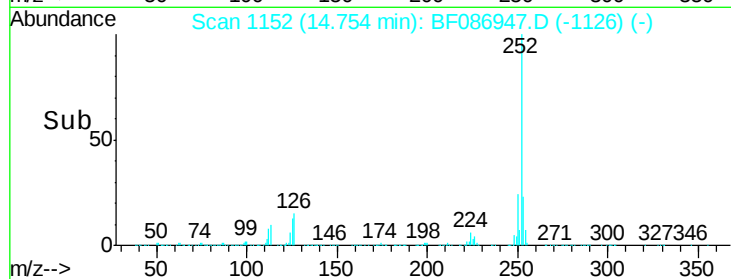
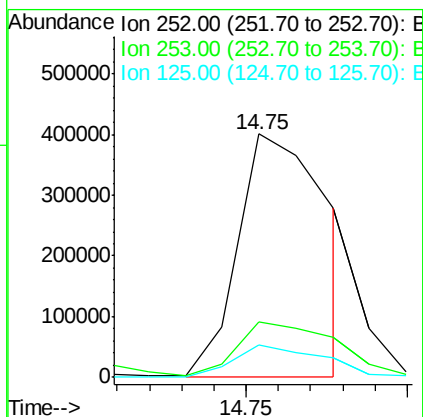
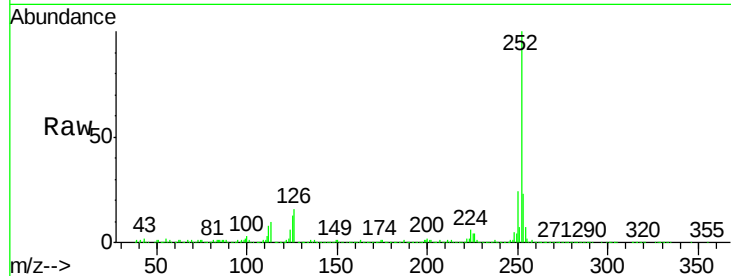
ClientSampleId :

SPARTAPARK-1542-00(0-2)

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

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



#88

Benzo(k)fluoranthene

Concen: 4.07 ng m

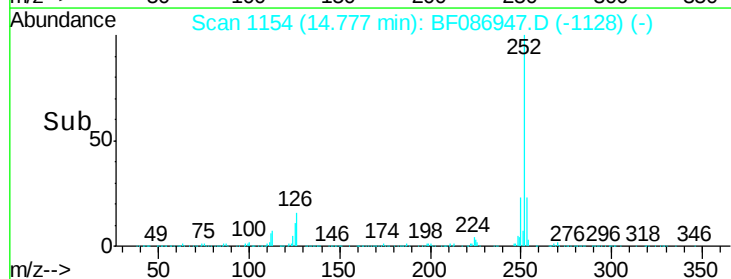
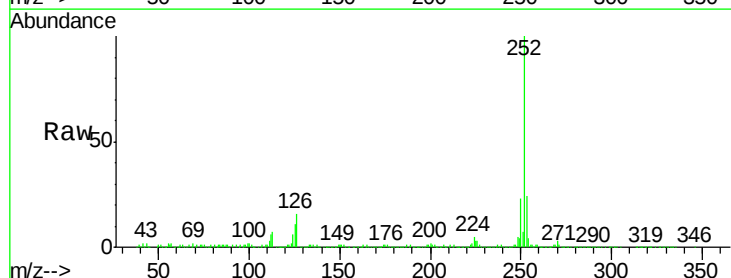
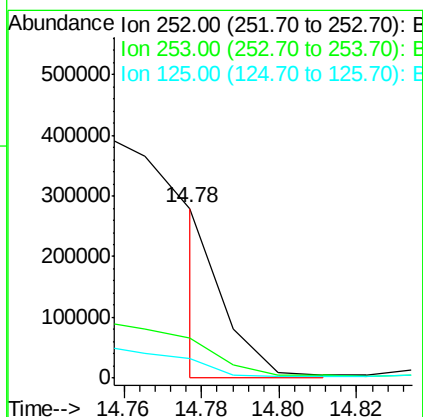
RT: 14.78 min Scan# 1154

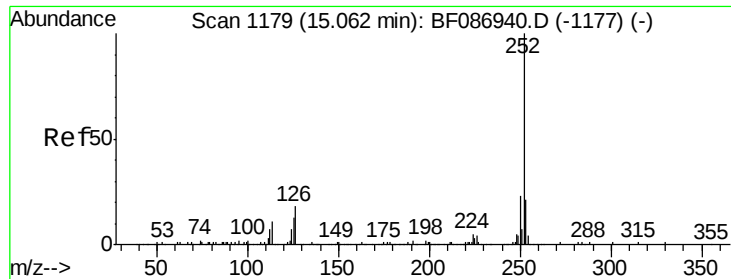
Delta R.T. 0.00 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.6
125	11.4	9.1	13.7





#89

Benzo(a)pyrene

Concen: 19.66 ng

RT: 15.07 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BF086947.D

Acq: 12 May 2016 23:19

Instrument :

BNA_F

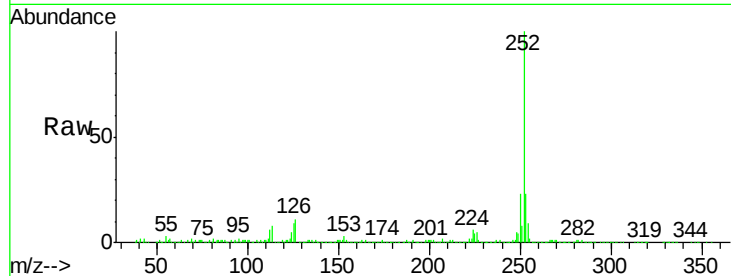
ClientSampleId :

SPARTAPARK-1542-00(0-2)

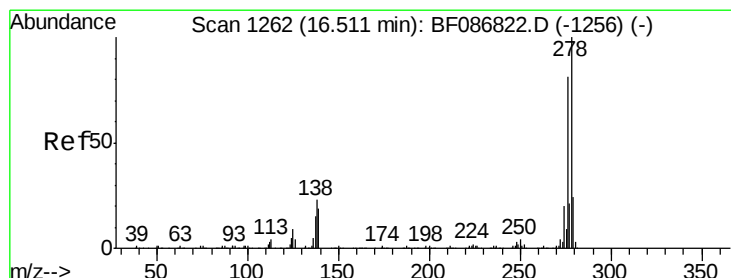
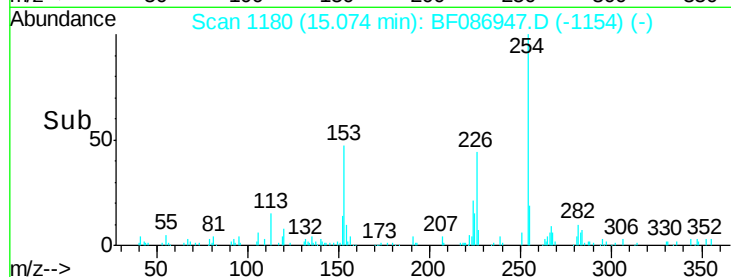
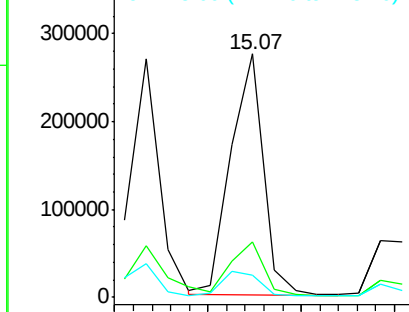
Tgt Ion:	252	Resp:	336952
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.2	25.8
125	8.9	9.0	13.6#

Manual Integrations
APPROVED

sohil
5/13/2016 8:07:33 PM



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: 5.13 ng m

RT: 16.38 min Scan# 1294

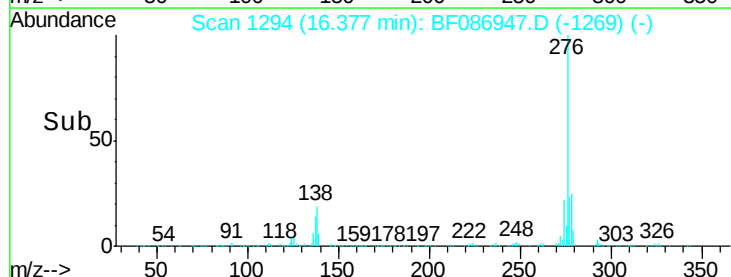
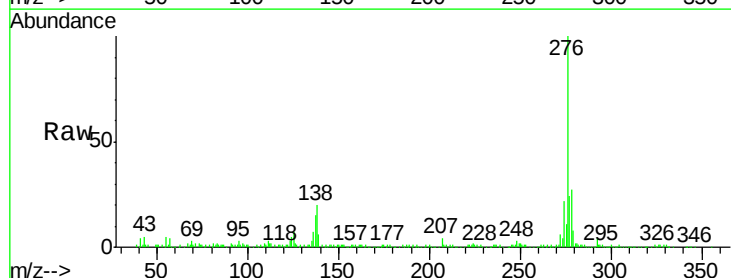
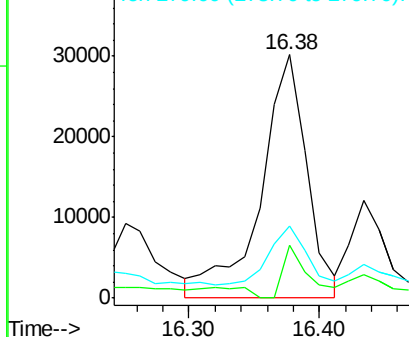
Delta R.T. -0.01 min

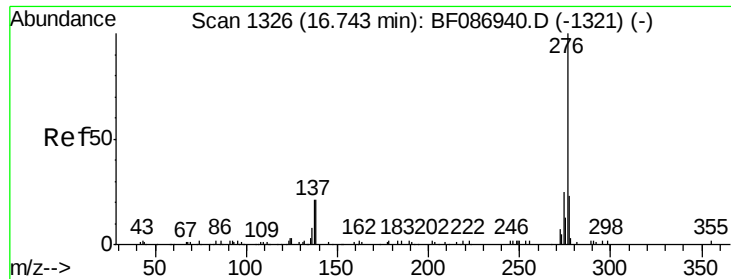
Lab File: BF086947.D

Acq: 12 May 2016 23:19

Tgt Ion:	278	Resp:	74150
Ion Ratio	Lower	Upper	
278	100		
139	21.9	16.6	24.8
279	29.8	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: 11.77 ng
 RT: 16.74 min Scan# 1326
 Delta R.T. -0.01 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		
277	24.4	19.6	29.4
138	24.8	23.6	35.4

Manual Integrations
 APPROVED

sohil
 5/13/2016 8:07:33 PM

