

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
 Data File : BF093282.D
 Acq On : 1 Mar 2017 9:13
 Operator : SJ/MA
 Sample : I2017-07DL 2X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK3-6-20170227DL

Manual Integrations
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Quant Time: Mar 01 15:45:20 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	134606m	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	487989	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	187160	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	318826	20.00	ng	-0.05
75) Chrysene-d12	13.99	240	258239	20.00	ng	-0.03
86) Perylene-d12	15.41	264	181957	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	554713	70.70	ng	-0.03
7) Phenol-d6	6.46	99	696123	68.96	ng	-0.02
23) Nitrobenzene-d5	7.38	82	373256	42.59	ng	-0.05
41) 2,4,6-Tribromophenol	10.65	330	89759	66.31	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	550928	53.33	ng	-0.05
78) Terphenyl-d14	12.92	244	396980	36.12	ng	-0.05
Target Compounds						Qvalue
10) Phenol	6.49	94	47612	4.03	ng	78
48) Acenaphthylene	9.71	152	205913	11.24	ng	97
49) Dimethylphthalate	9.57	163	53599	4.25	ng	98
57) Fluorene	10.40	166	29312	2.60	ng	94
70) Phenanthrene	11.37	178	546602	29.92	ng	97
71) Anthracene	11.41	178	171294	9.34	ng	97
72) Carbazole	11.57	167	66174	3.77	ng	99
74) Fluoranthene	12.56	202	931561	49.44	ng	96
77) Pyrene	12.78	202	872906	45.17	ng	99
80) Benzo(a)anthracene	13.97	228	387482	24.53	ng	94
82) Chrysene	14.01	228	395457m	26.74	ng	
83) Bis(2-ethylhexyl)phthalate	13.95	149	98693	9.20	ng	99
85) Indeno(1,2,3-cd)pyrene	16.82	276	211386	18.45	ng	99
87) Benzo(b)fluoranthene	15.00	252	381987m	31.89	ng	
88) Benzo(k)fluoranthene	15.01	252	187737m	18.16	ng	
89) Benzo(a)pyrene	15.36	252	270726	26.13	ng	99
90) Dibenzo(a,h)anthracene	16.82	278	52424	6.26	ng	# 76
91) Benzo(g,h,i)perylene	17.24	276	202594	23.95	ng	# 91

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

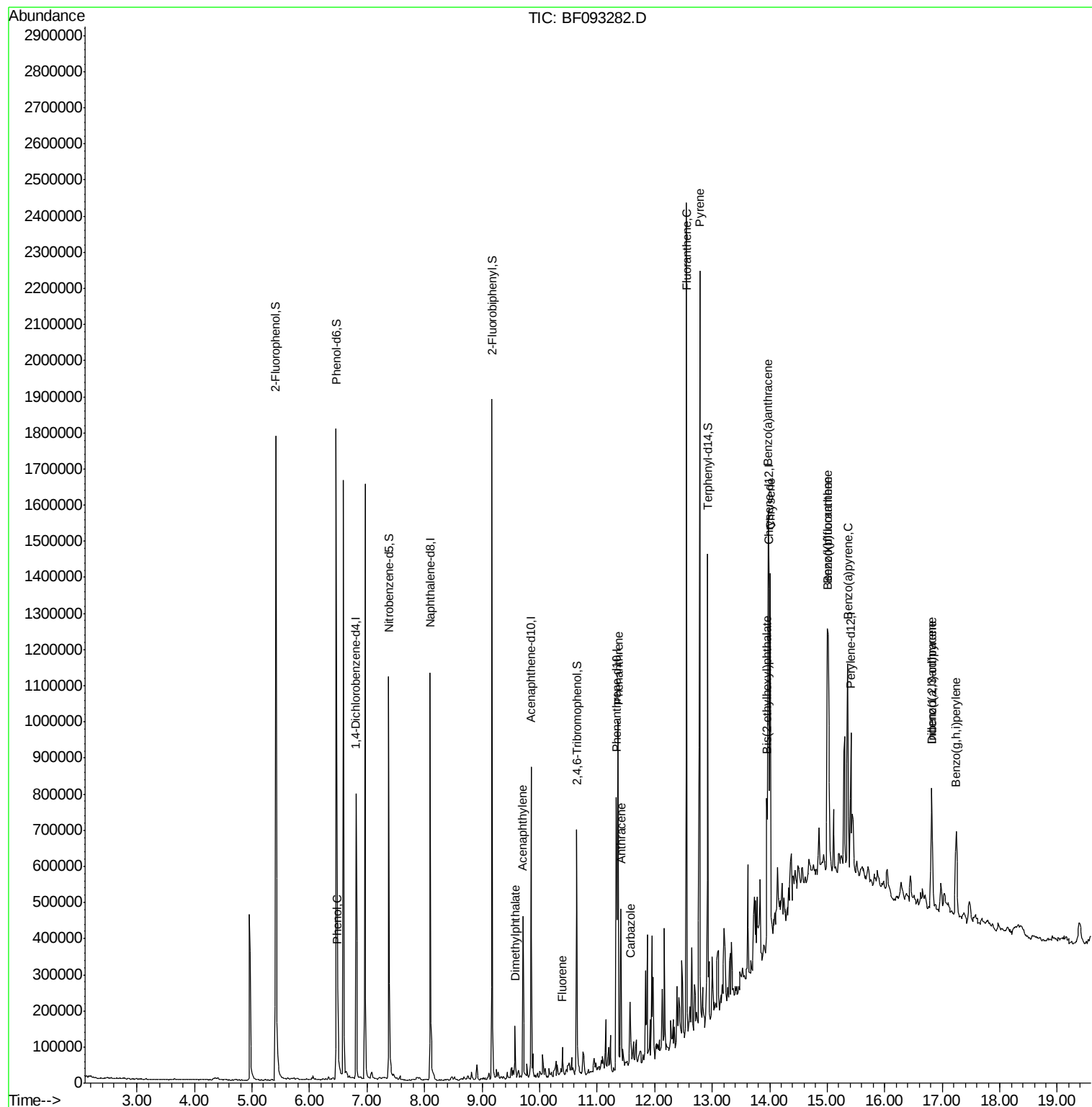
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
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ALS Vial : 43 Sample Multiplier: 1

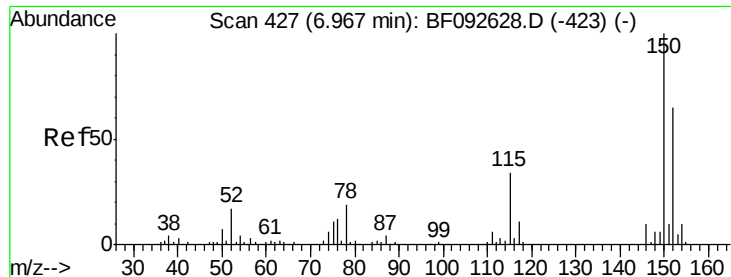
Instrument :
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TK3-6-20170227DL

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#1

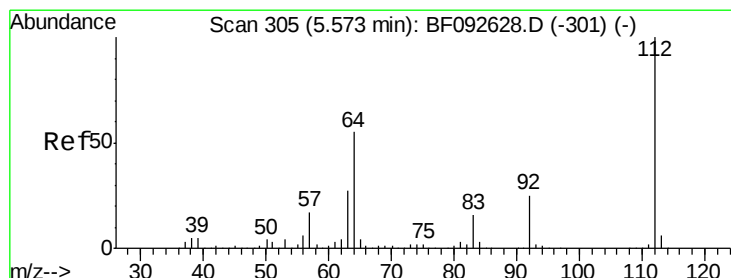
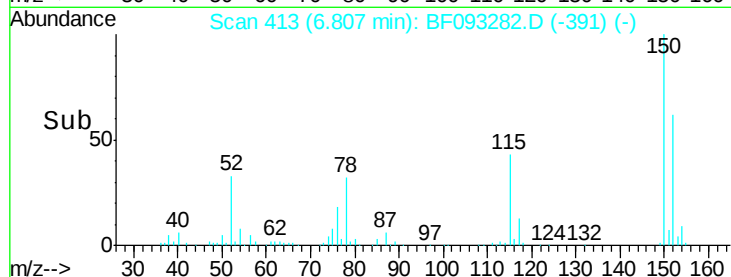
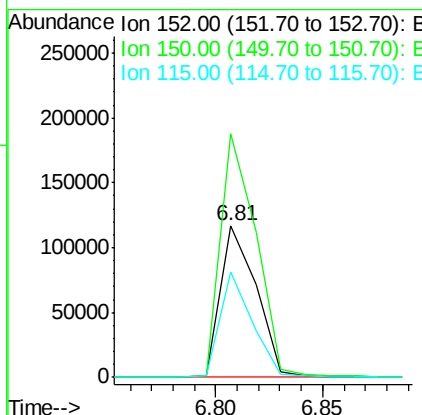
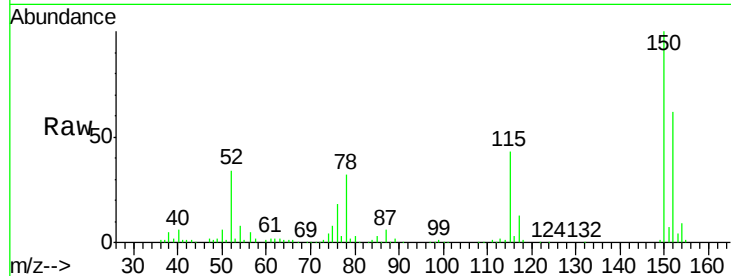
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.81 min Scan# 413
Delta R.T. -0.05 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Instrument :
BNA_F
ClientSampleId :
TK3-6-20170227DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.1	124.9	187.3
115	69.3	46.0	69.0

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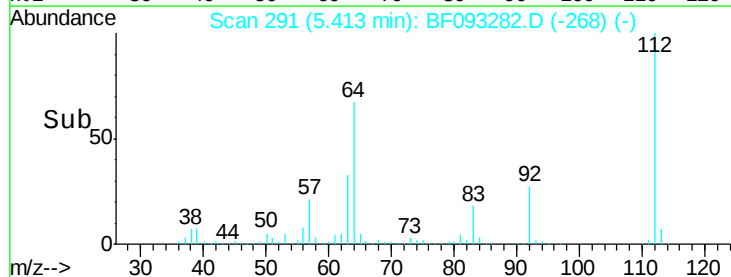
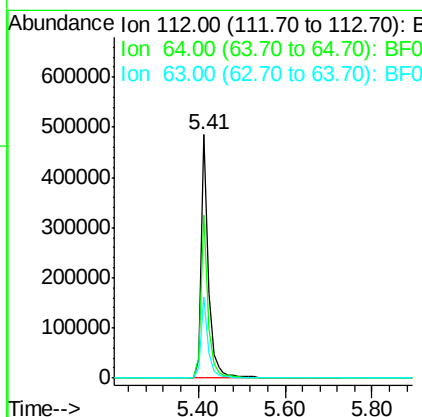
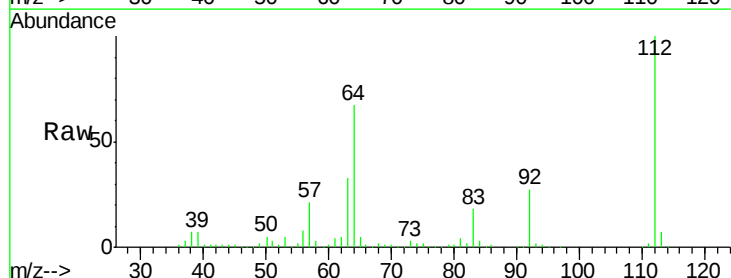
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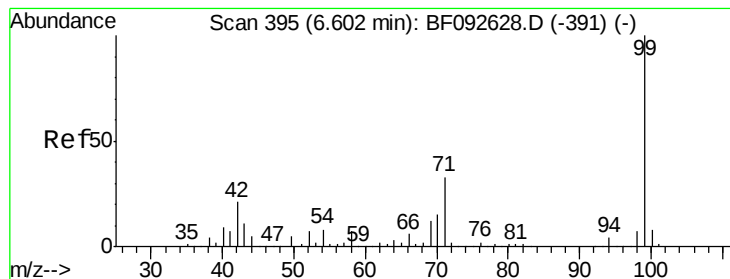


#5

2-Fluorophenol
Concen: 70.70 ng
RT: 5.41 min Scan# 291
Delta R.T. -0.03 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	46.1	69.1
63	33.2	23.8	35.6





#7

Phenol-d6

Concen: 68.96 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Instrument :

BNA_F

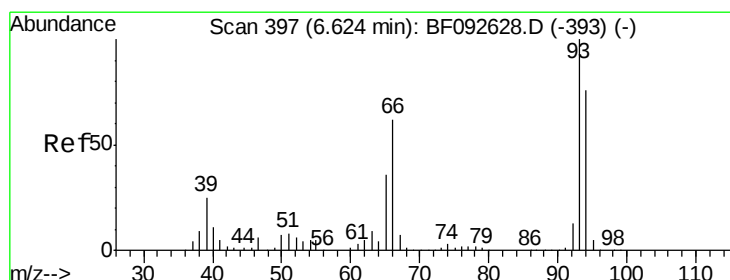
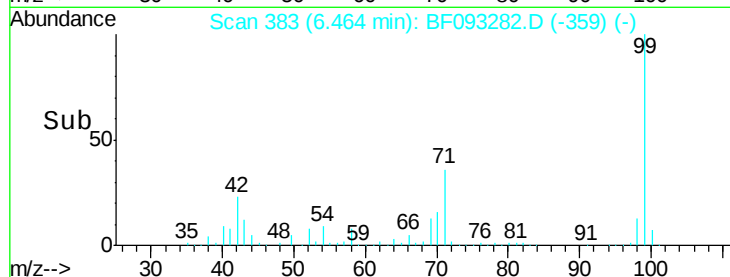
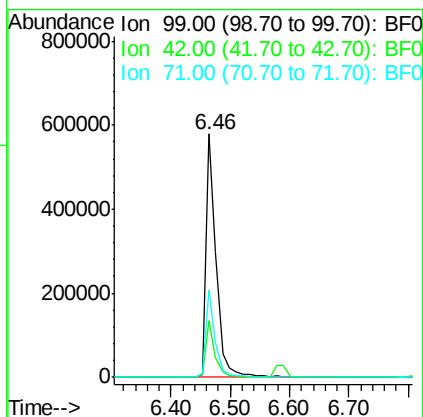
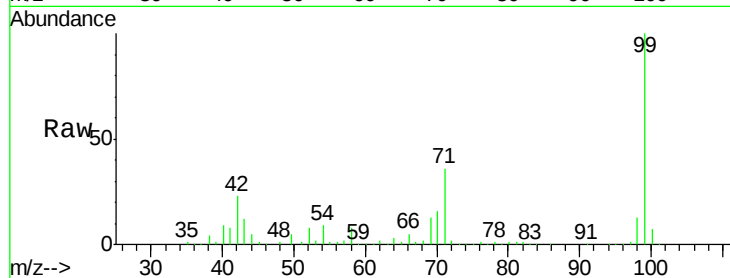
ClientSampleId :

TK3-6-20170227DL

Tgt Ion:	99	Resp:	696123
Ion	Ratio	Lower	Upper
99	100		
42	23.4	15.6	23.4
71	36.0	27.5	41.3

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#10

Phenol

Concen: 4.03 ng

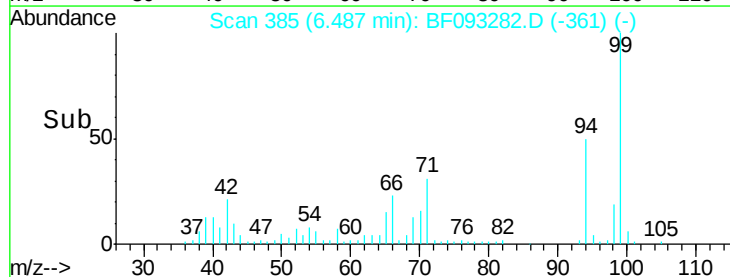
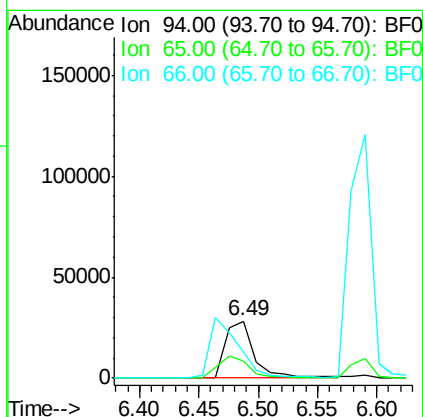
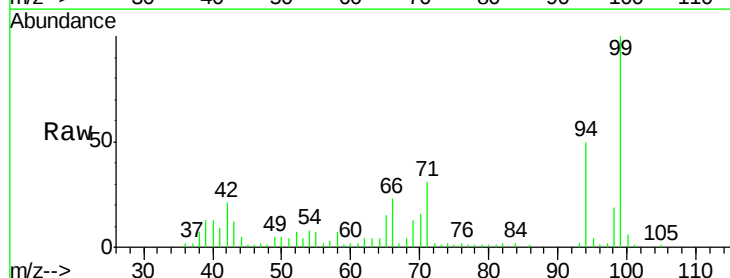
RT: 6.49 min Scan# 385

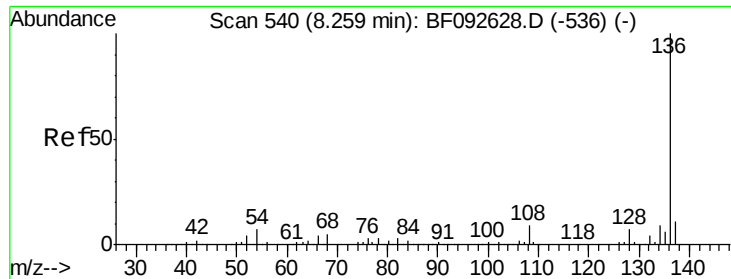
Delta R.T. -0.02 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Tgt Ion:	94	Resp:	47612
Ion	Ratio	Lower	Upper
94	100		
65	29.9	21.4	61.4
66	44.9	44.0	84.0





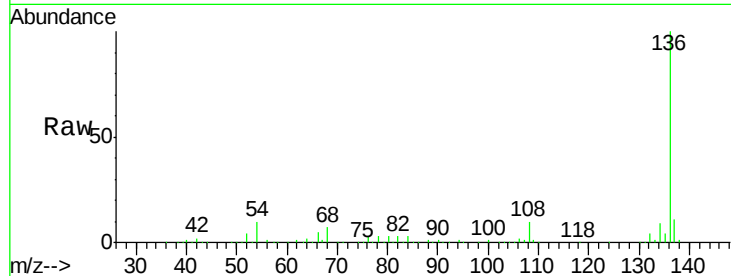
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.10 min Scan# 526
Delta R.T. -0.05 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Instrument :
BNA_F
ClientSampleId :
TK3-6-20170227DL

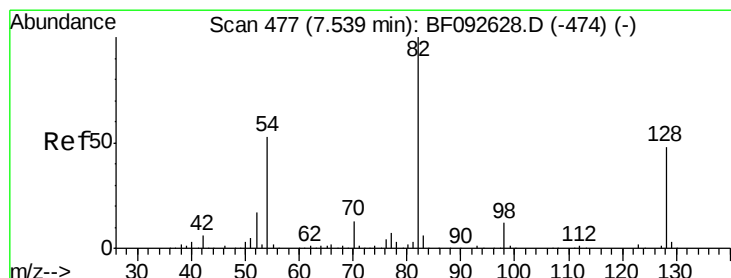
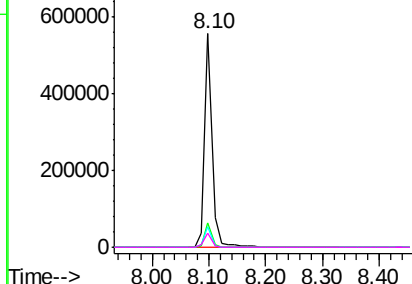
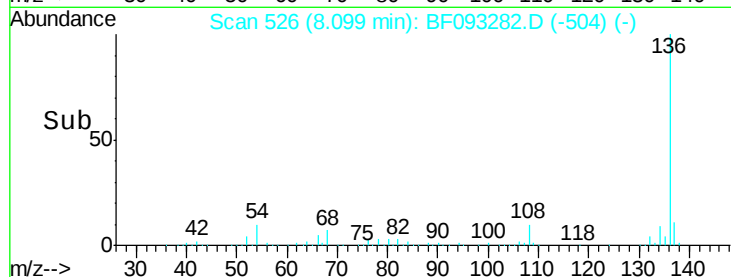
Tgt Ion	Ratio	Resp	Lower	Upper
136	100	487989		
137	11.2	8.4	12.6	
54	9.6	4.5	6.7#	
68	6.8	3.6	5.4#	

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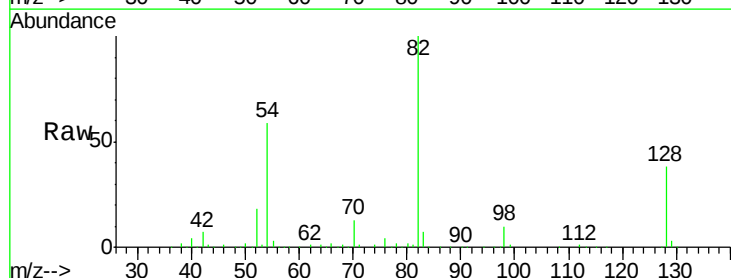


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

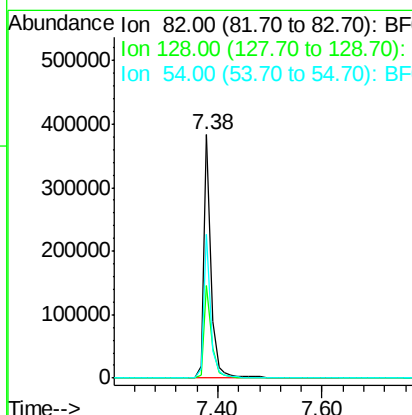
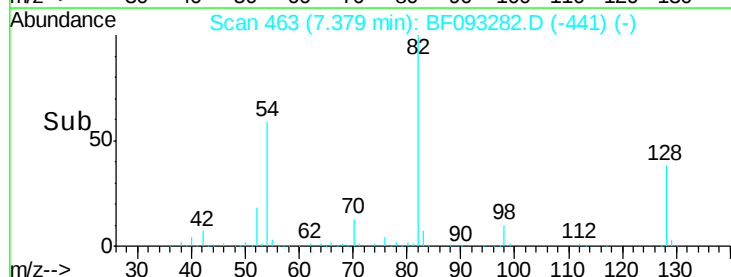


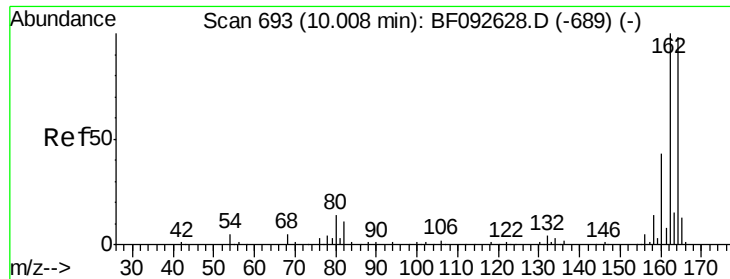
#23
Nitrobenzene-d5
Concen: 42.59 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.05 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	373256		
128	38.0	34.6	52.0	
54	58.8	39.5	59.3	



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





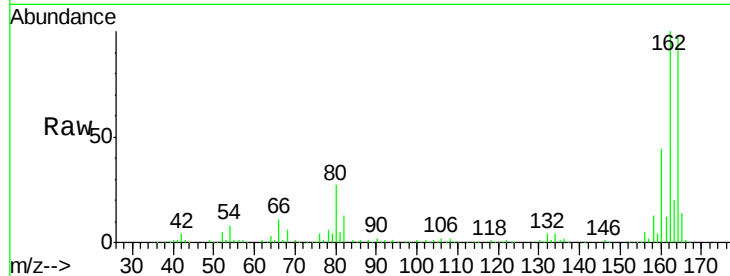
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 679
 Delta R.T. -0.05 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Instrument :
 BNA_F
 ClientSampleId :
 TK3-6-20170227DL

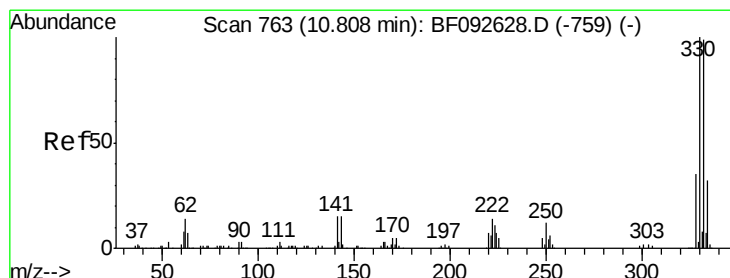
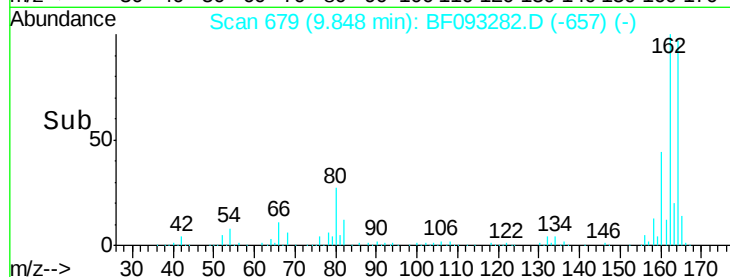
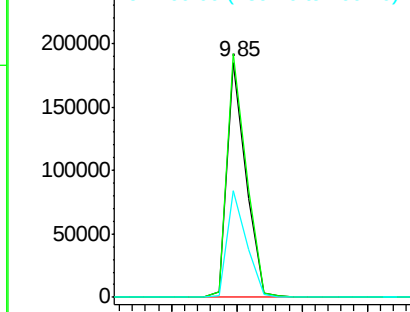
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	187160		
162	103.5	80.2	120.2	
160	45.1	36.9	55.3	

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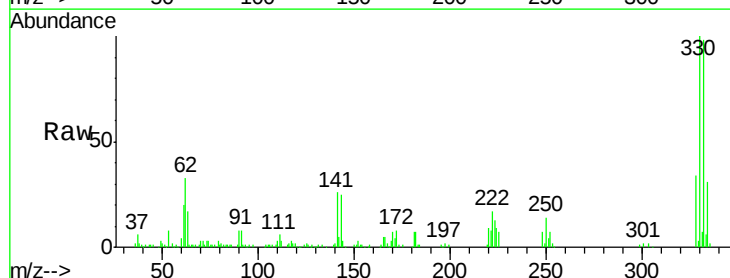


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

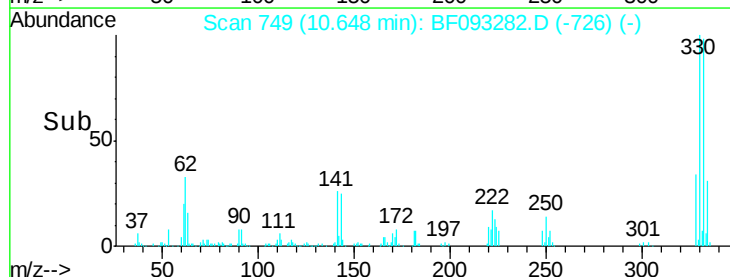
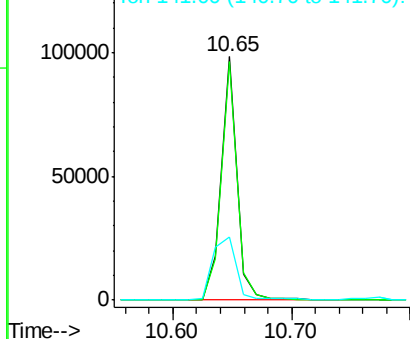


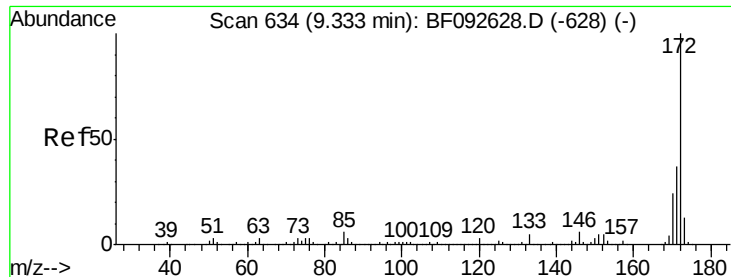
#41
 2,4,6-Tribromophenol
 Concen: 66.31 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.03 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	89759		
332	98.0	77.4	116.2	
141	40.4	34.1	51.1	



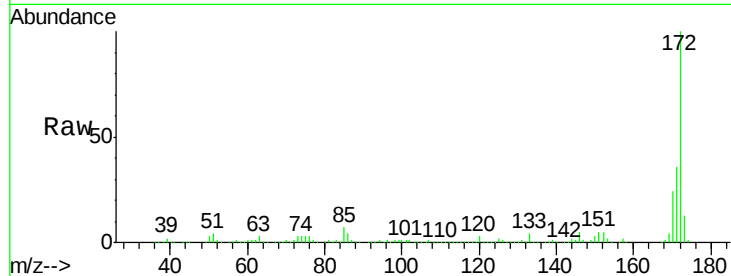
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





#44
2-Fluorobiphenyl
Concen: 53.33 ng
RT: 9.17 min Scan# 620
Delta R.T. -0.05 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

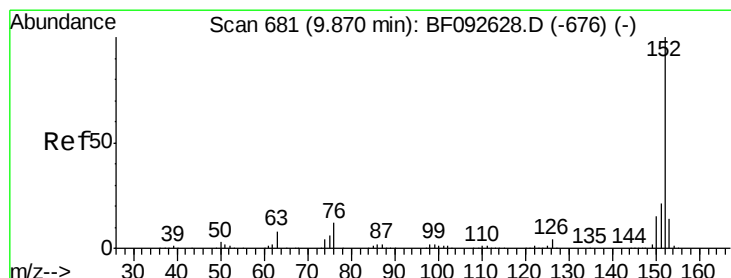
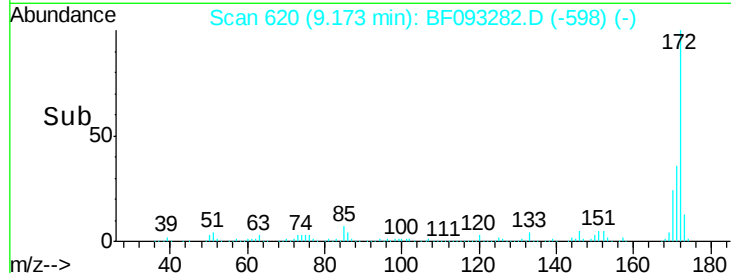
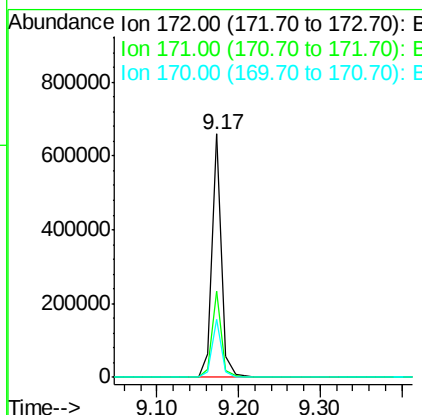
Instrument :
BNA_F
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Tgt Ion:172 Resp: 550928
Ion Ratio Lower Upper
172 100
171 35.5 29.4 44.0
170 23.8 20.2 30.4

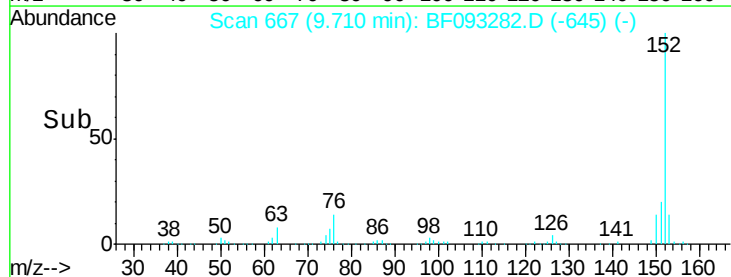
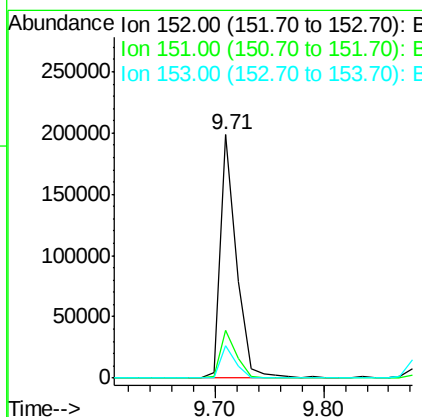
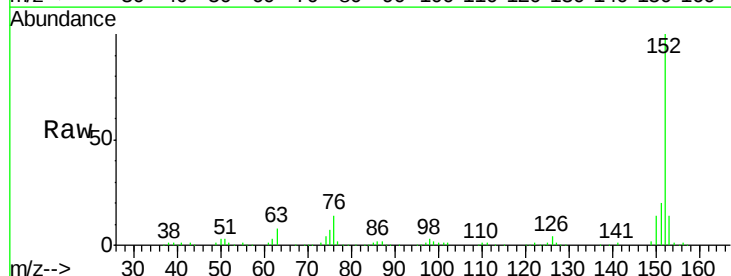
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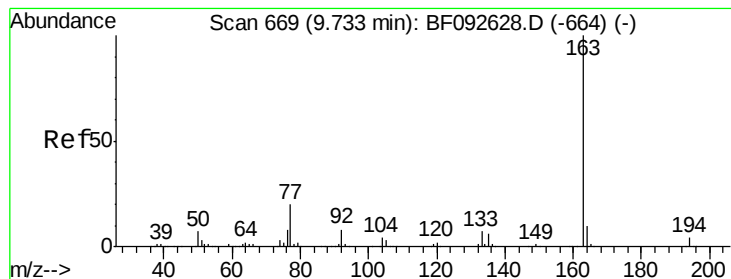
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#48
Acenaphthylene
Concen: 11.24 ng
RT: 9.71 min Scan# 667
Delta R.T. -0.05 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Tgt Ion:152 Resp: 205913
Ion Ratio Lower Upper
152 100
151 19.6 16.9 25.3
153 13.6 11.4 17.2





#49

Dimethylphthalate

Concen: 4.25 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.05 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Instrument :

BNA_F

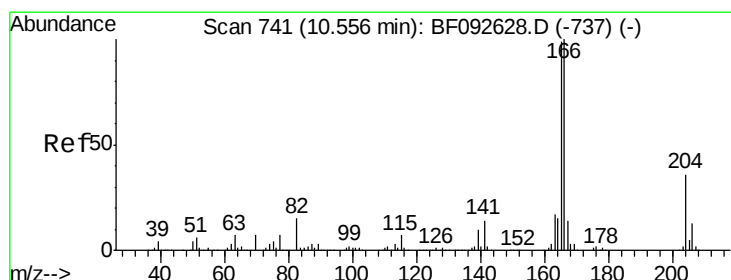
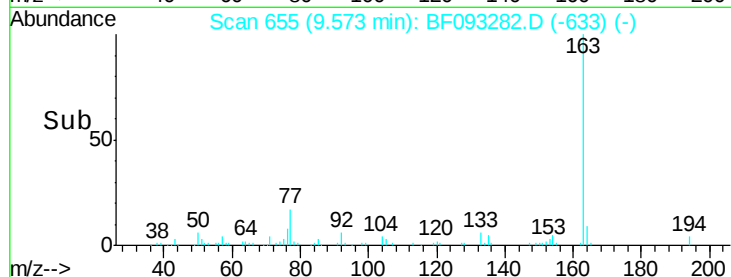
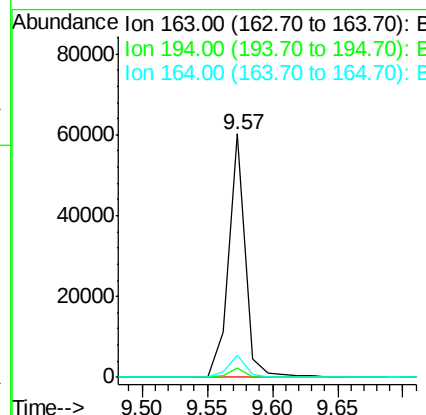
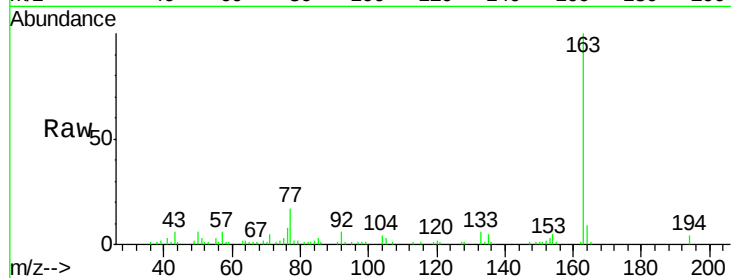
ClientSampleId :

TK3-6-20170227DL

Tgt Ion:	163	Resp:	53599
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.4
164	9.1	8.0	12.0

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#57

Fluorene

Concen: 2.60 ng

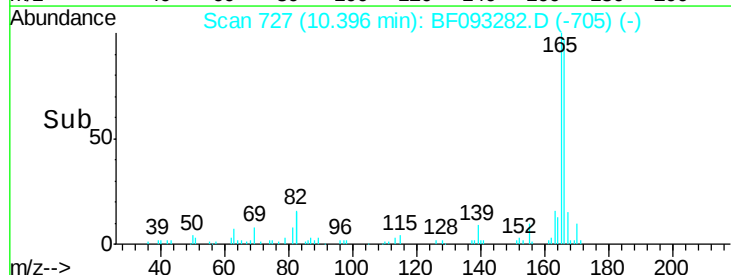
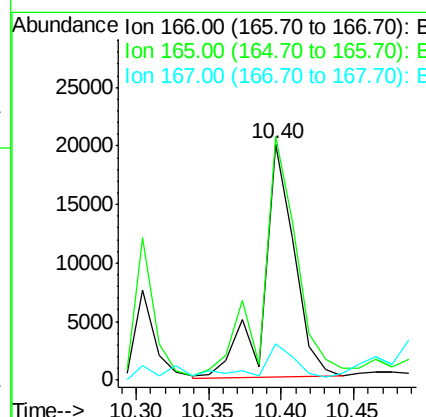
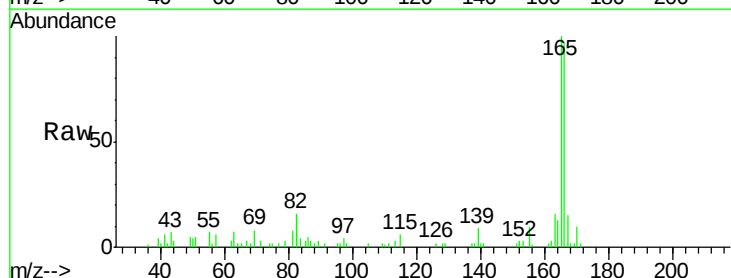
RT: 10.40 min Scan# 727

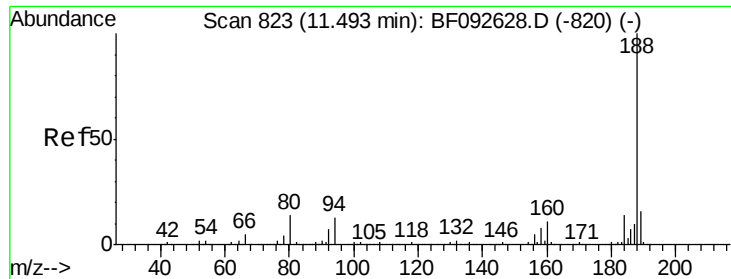
Delta R.T. -0.05 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Tgt Ion:	166	Resp:	29312
Ion Ratio	Lower	Upper	
166	100		
165	103.1	77.8	116.8
167	15.4	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Instrument :

BNA_F

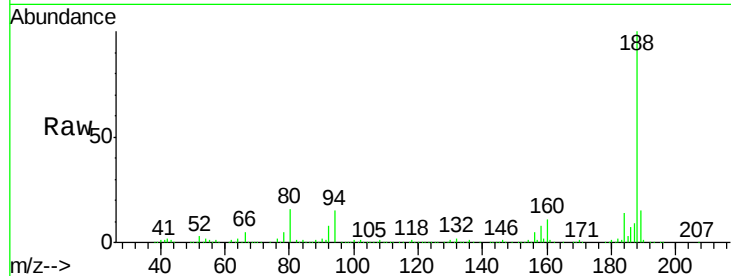
ClientSampleId :

TK3-6-20170227DL

Tgt Ion:	188	Resp:	318826
Ion Ratio	Lower	Upper	
188	100		
94	14.8	10.0	15.0
80	15.6	11.2	16.8

Manual Integrations
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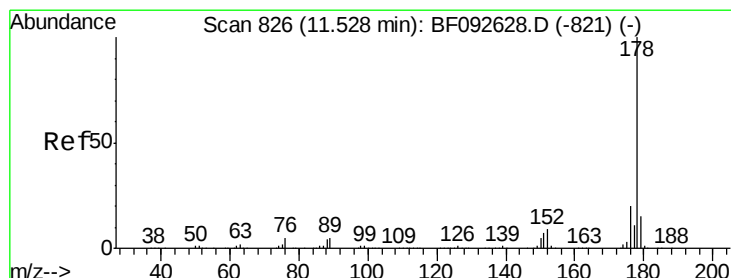
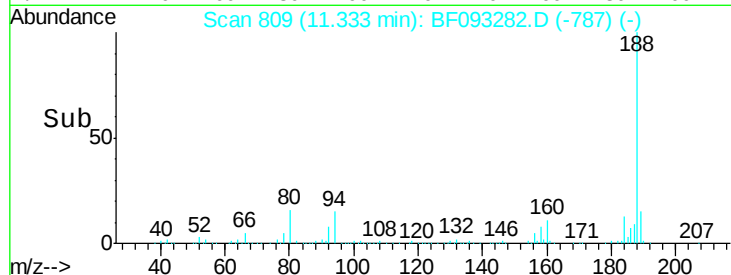
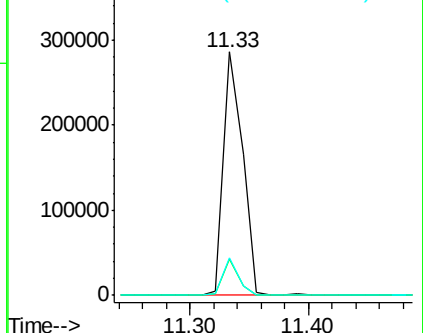
mohammad
3/1/2017 4:07:12 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 29.92 ng

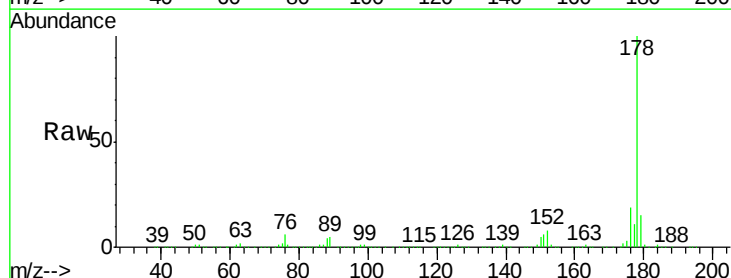
RT: 11.37 min Scan# 812

Delta R.T. -0.03 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

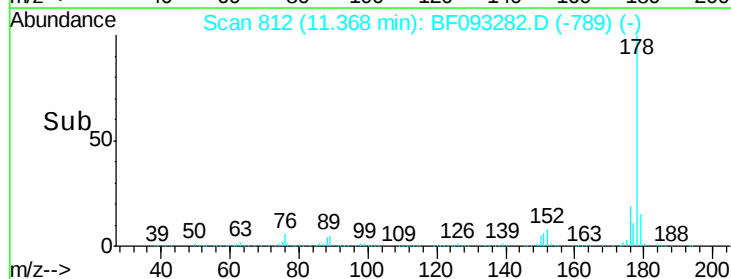
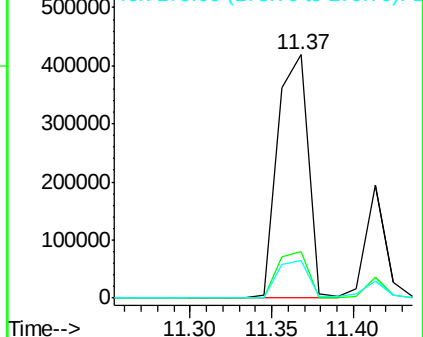
Tgt Ion:	178	Resp:	546602
Ion Ratio	Lower	Upper	
178	100		
176	19.3	16.6	25.0
179	15.3	12.8	19.2

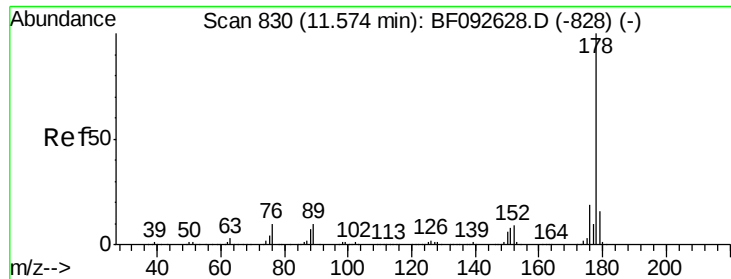


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





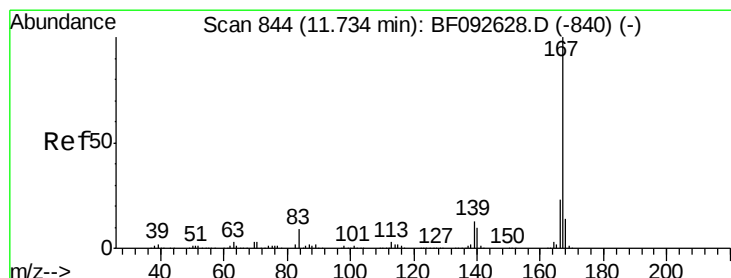
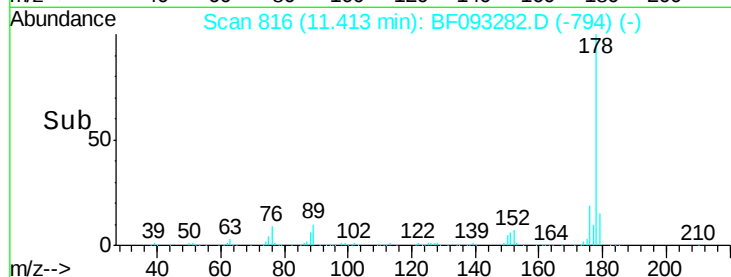
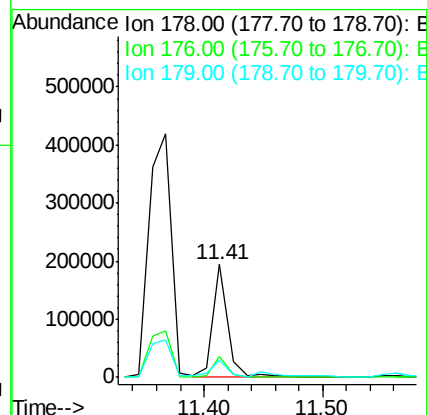
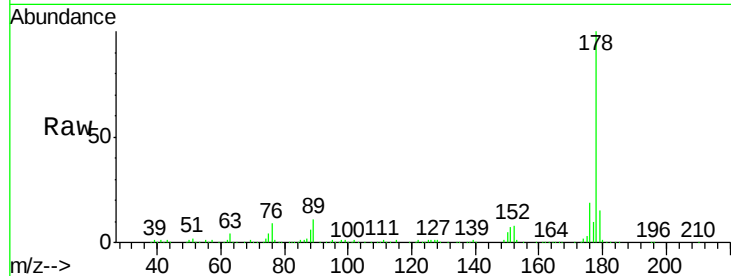
#71
 Anthracene
 Concen: 9.34 ng
 RT: 11.41 min Scan# 816
 Delta R.T. -0.05 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Instrument :
 BNA_F
 ClientSampleId :
 TK3-6-20170227DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.9	23.9
179	15.2	13.2	19.8

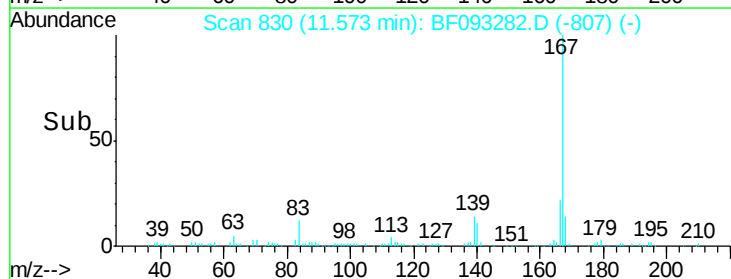
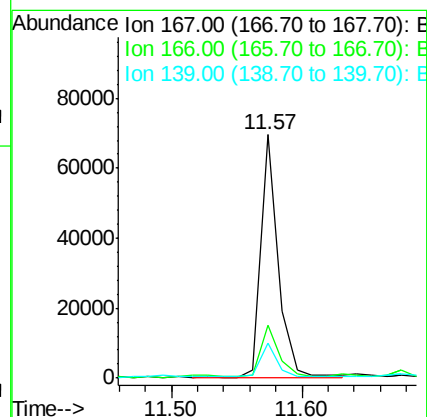
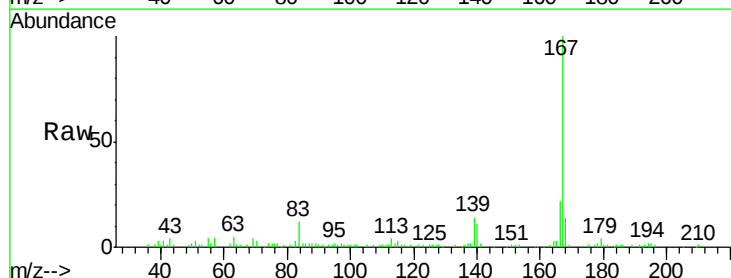
Manual Integrations
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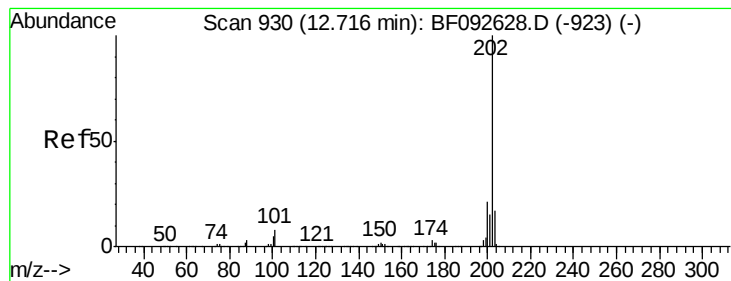
mohammad
 3/1/2017 4:07:12 PM



#72
 Carbazole
 Concen: 3.77 ng
 RT: 11.57 min Scan# 830
 Delta R.T. -0.03 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.2	27.2
139	14.2	11.4	17.2





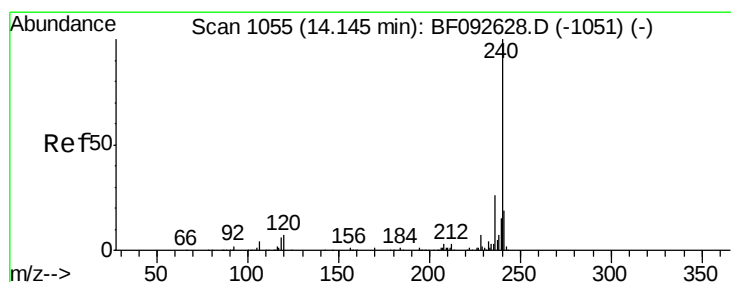
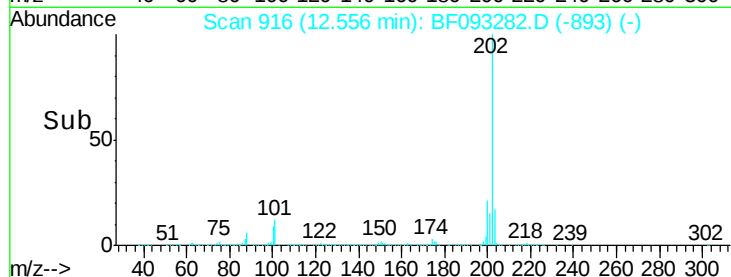
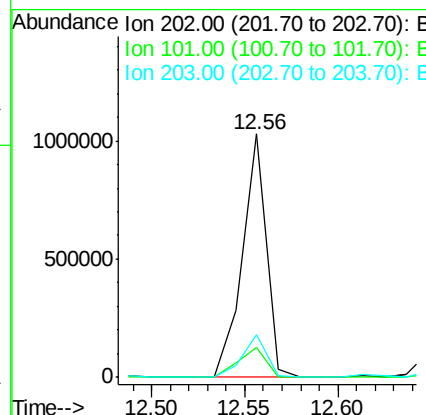
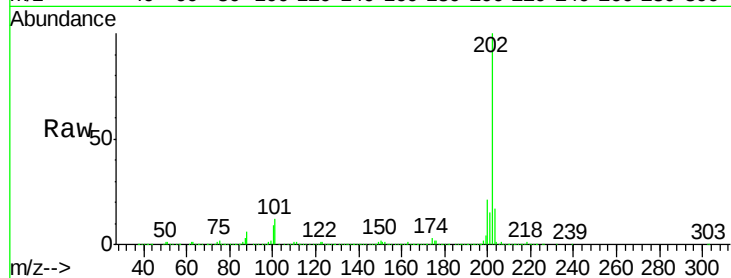
#74
 Fluoranthene
 Concen: 49.44 ng
 RT: 12.56 min Scan# 916
 Delta R.T. -0.03 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Instrument :
 BNA_F
 ClientSampleId :
 TK3-6-20170227DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	12.2	0.0	34.6
203	17.4	0.0	38.7

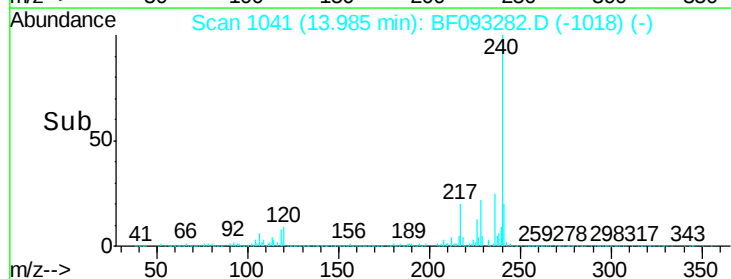
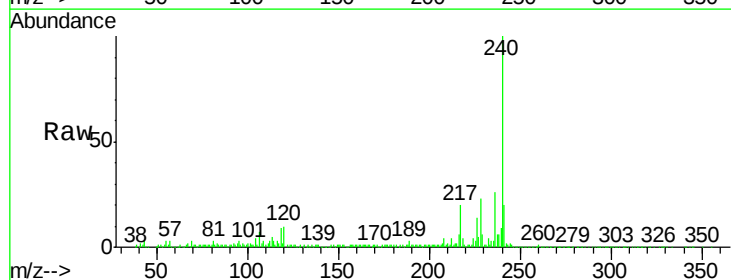
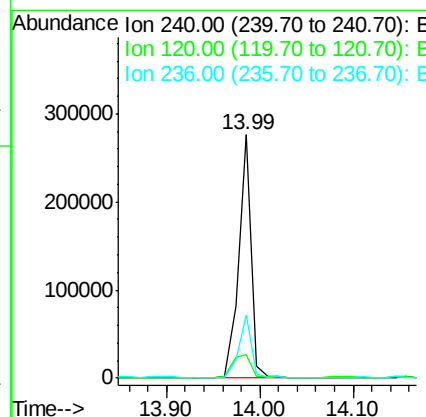
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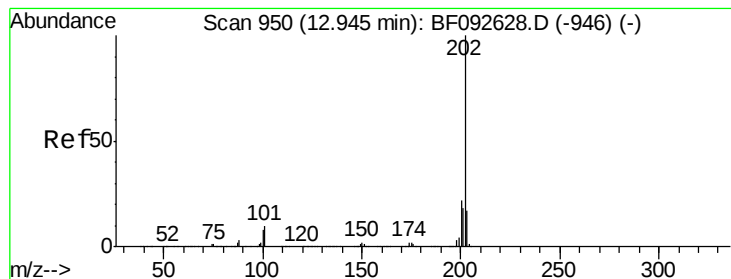
mohammad
 3/1/2017 4:07:12 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.99 min Scan# 1041
 Delta R.T. -0.03 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	9.9	12.9	19.3#
236	26.0	20.9	31.3





#77

Pyrene

Concen: 45.17 ng

RT: 12.78 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Instrument :

BNA_F

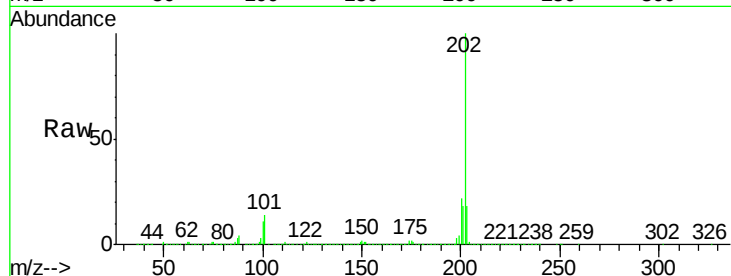
ClientSampleId :

TK3-6-20170227DL

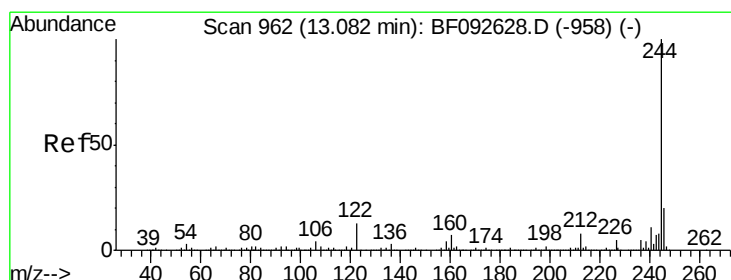
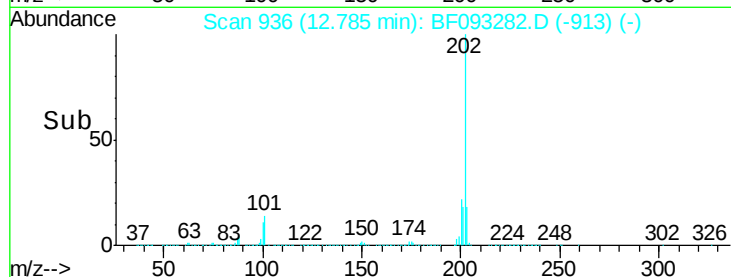
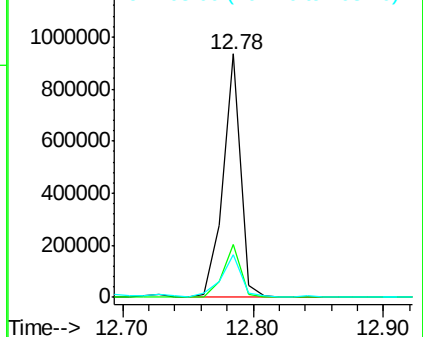
Tgt Ion:	202	Resp:	872906
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.7	26.5
203	17.6	14.7	22.1

Manual Integrations
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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: 36.12 ng

RT: 12.92 min Scan# 948

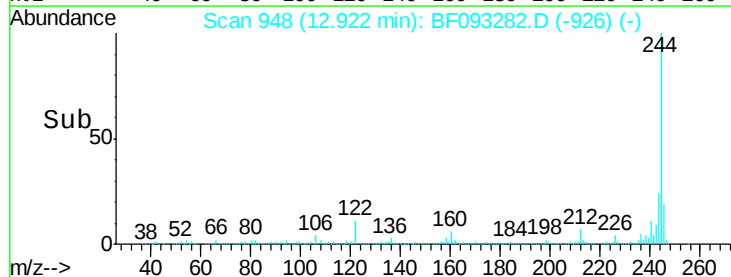
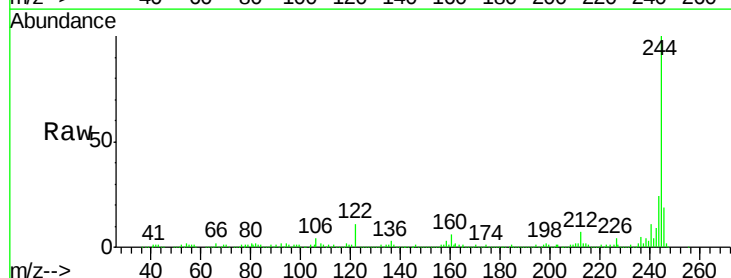
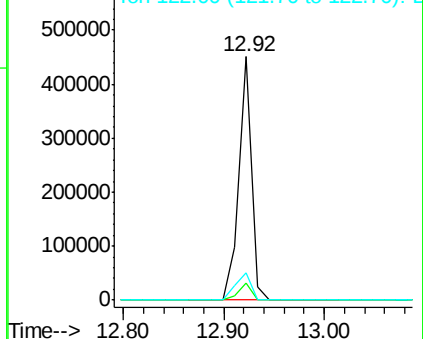
Delta R.T. -0.05 min

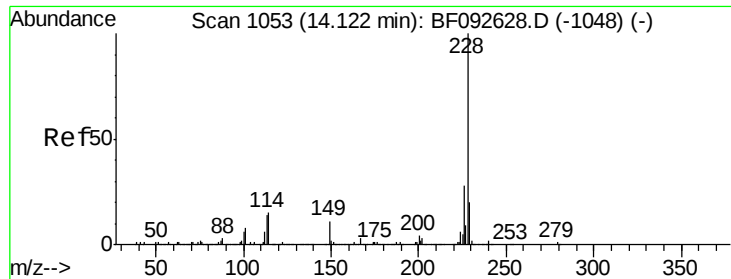
Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Tgt Ion:	244	Resp:	396980
Ion Ratio	Lower	Upper	
244	100		
212	7.1	6.2	9.2
122	11.0	11.4	17.2#

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





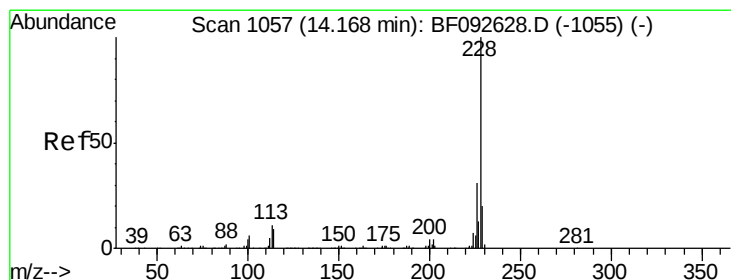
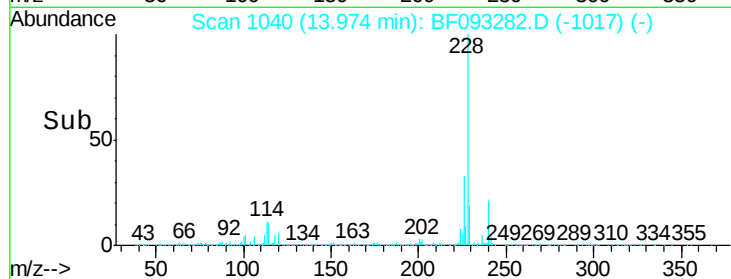
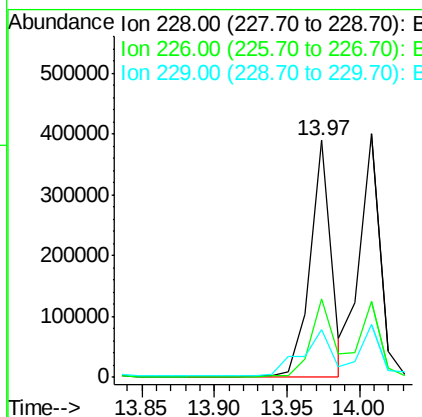
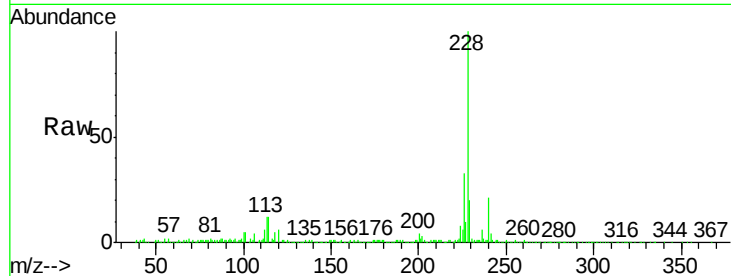
#80
Benzo(a)anthracene
Concen: 24.53 ng
RT: 13.97 min Scan# 1040
Delta R.T. -0.03 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Instrument :
BNA_F
ClientSampleId :
TK3-6-20170227DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.4	33.6
229	20.1	16.2	24.4

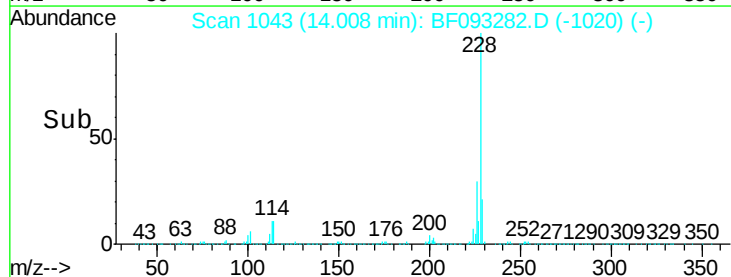
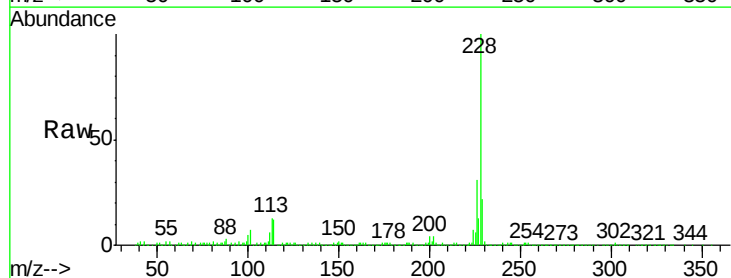
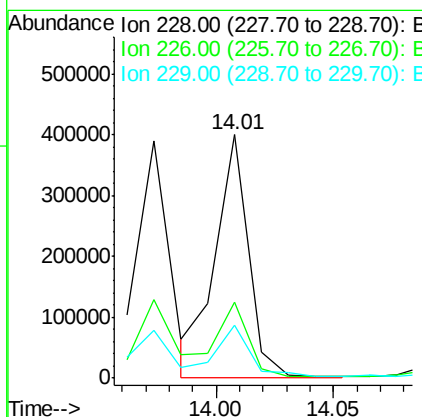
Manual Integrations
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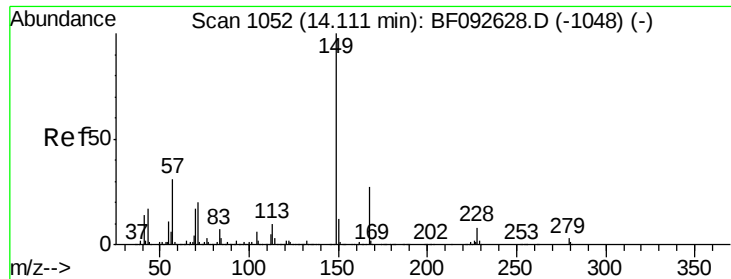
mohammad
3/1/2017 4:07:12 PM



#82
Chrysene
Concen: 26.74 ng m
RT: 14.01 min Scan# 1043
Delta R.T. -0.03 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.4	38.0
229	21.8	16.2	24.2





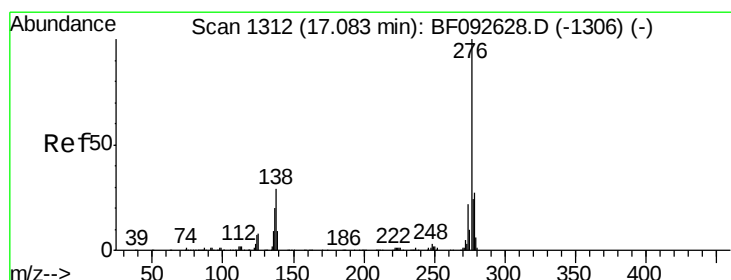
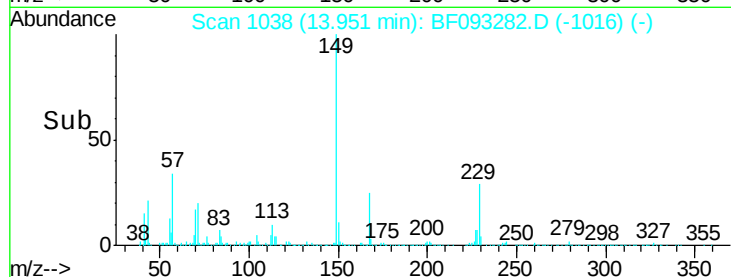
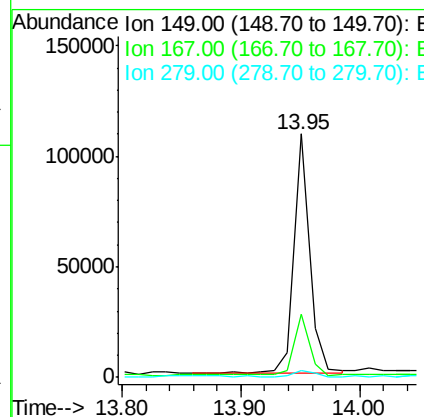
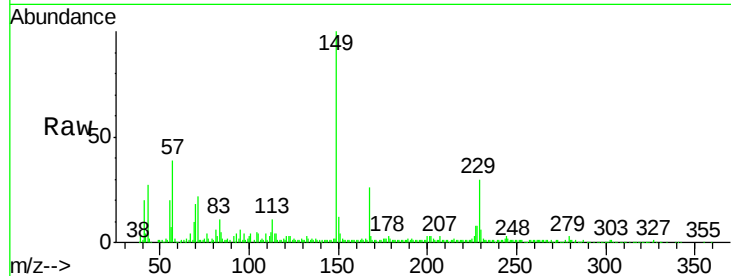
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 9.20 ng
 RT: 13.95 min Scan# 1038
 Delta R.T. -0.05 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Instrument :
 BNA_F
 ClientSampleId :
 TK3-6-20170227DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
167	25.9	20.2	30.4
279	2.7	1.8	2.8

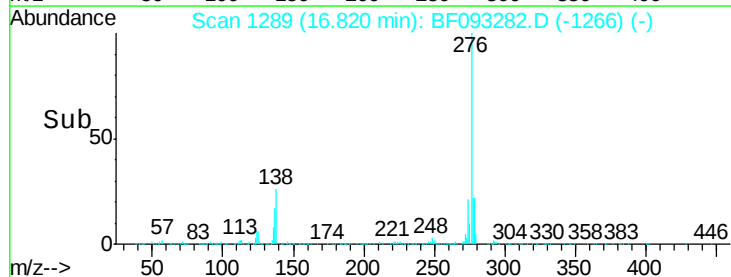
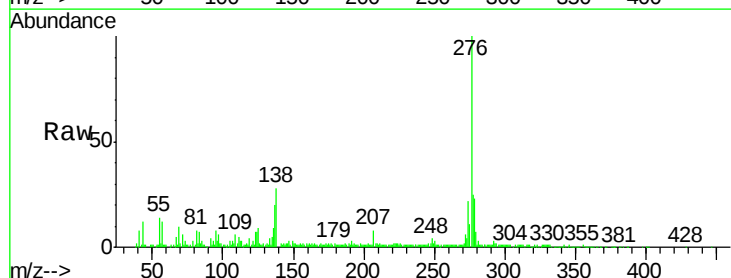
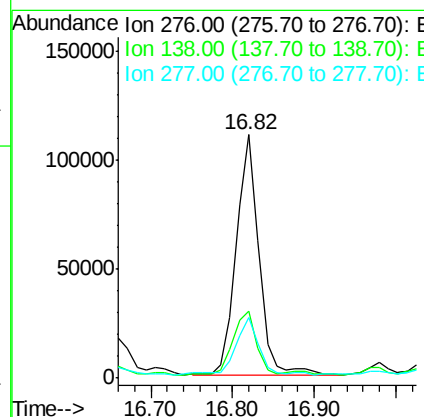
Manual Integrations
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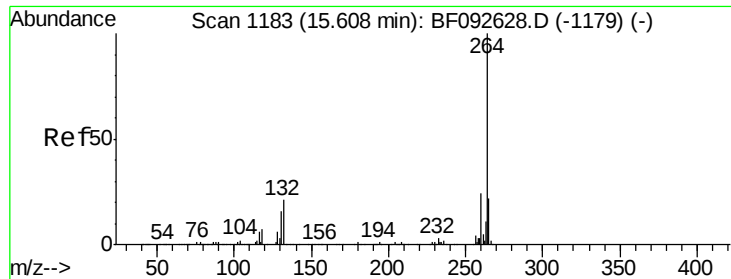
mohammad
 3/1/2017 4:07:12 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 18.45 ng
 RT: 16.82 min Scan# 1289
 Delta R.T. -0.03 min
 Lab File: BF093282.D
 Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	27.5	21.8	32.6
277	24.3	20.2	30.4





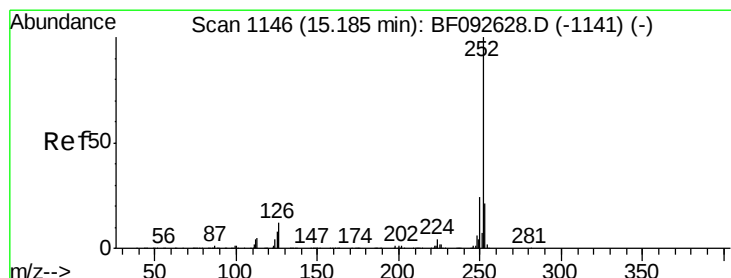
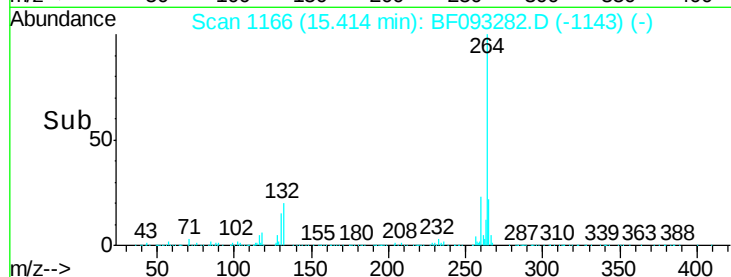
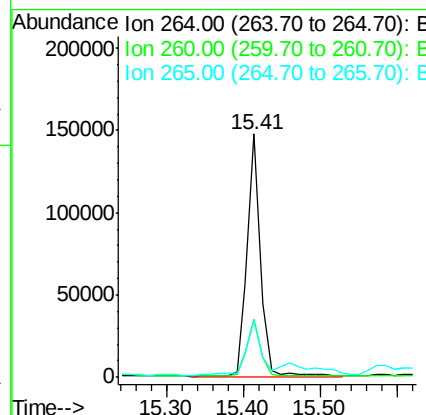
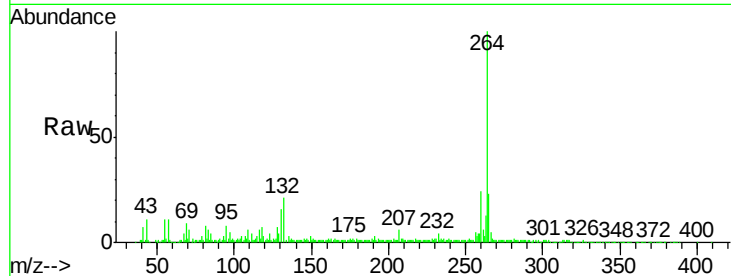
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.03 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Instrument :
BNA_F
ClientSampleId :
TK3-6-20170227DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	23.6	19.2	28.8
265	23.3	17.4	26.0

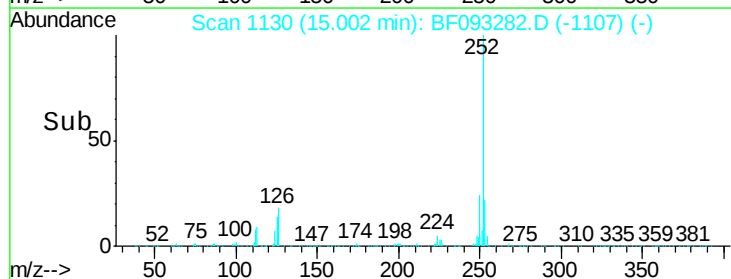
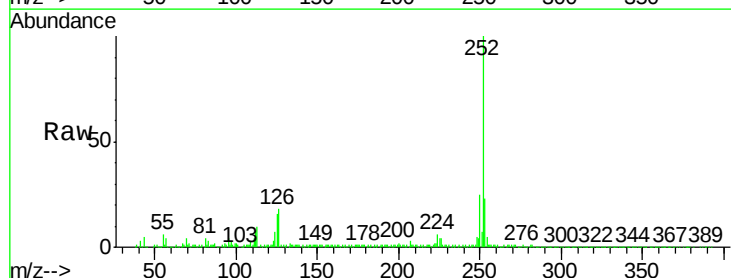
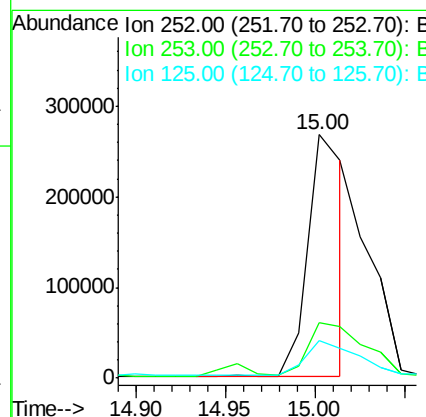
Manual Integrations
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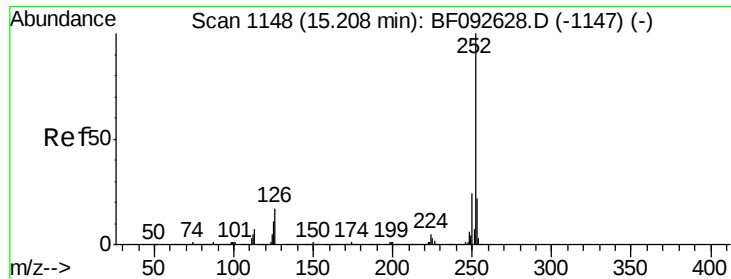
mohammad
3/1/2017 4:07:12 PM



#87
Benzo(b)fluoranthene
Concen: 31.89 ng m
RT: 15.00 min Scan# 1130
Delta R.T. -0.03 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.9	18.2	27.4
125	15.6	9.8	14.6#





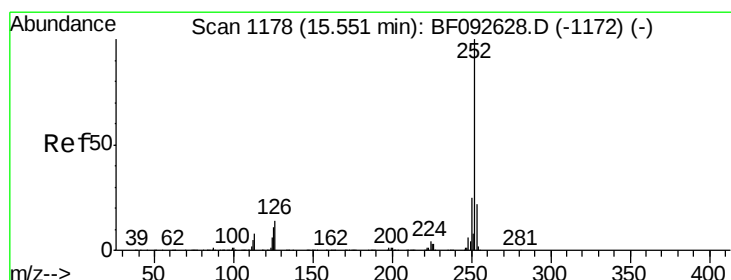
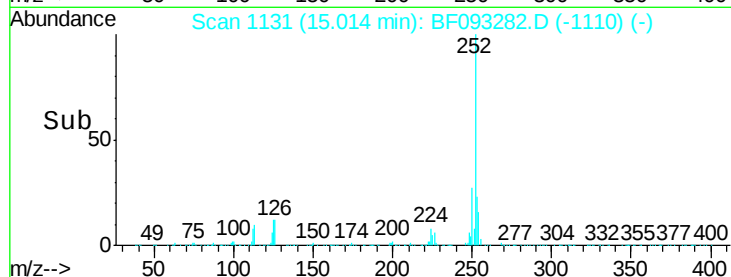
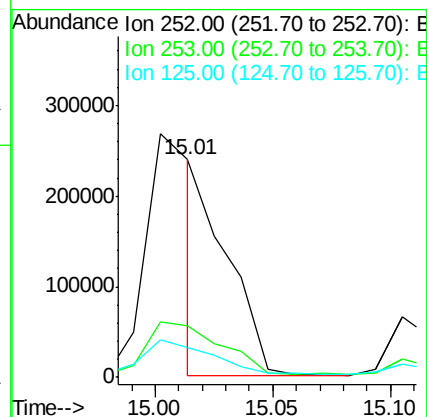
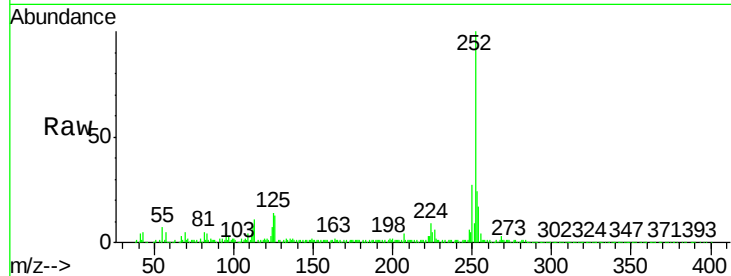
#88
Benzo(k)fluoranthene
Concen: 18.16 ng m
RT: 15.01 min Scan# 1131
Delta R.T. -0.06 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Instrument :
BNA_F
ClientSampleId :
TK3-6-20170227DL

Tgt Ion: 252 Resp: 187737
Ion Ratio Lower Upper
252 100
253 23.9 18.5 27.7
125 13.8 8.9 13.3#

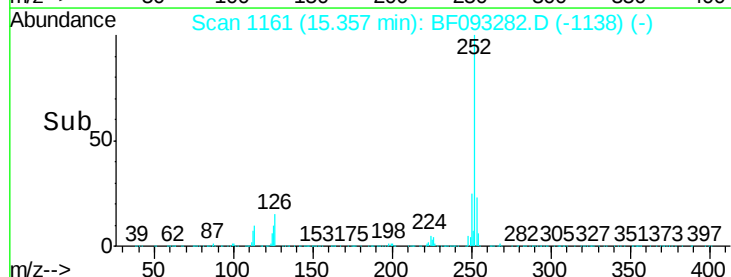
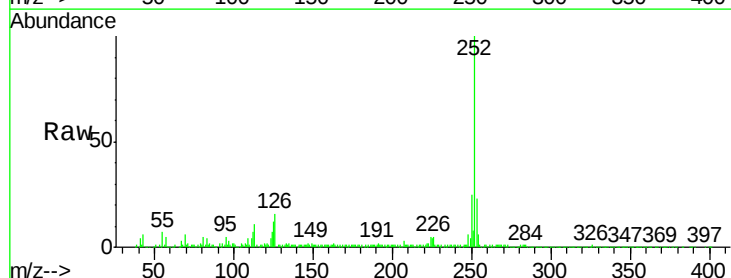
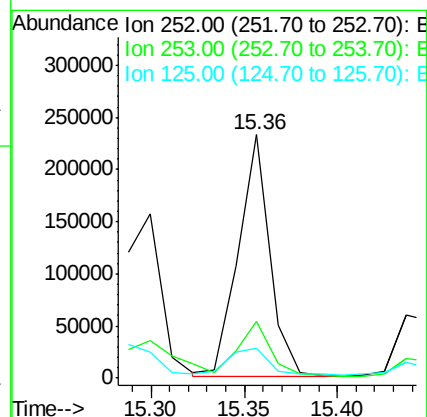
Manual Integrations
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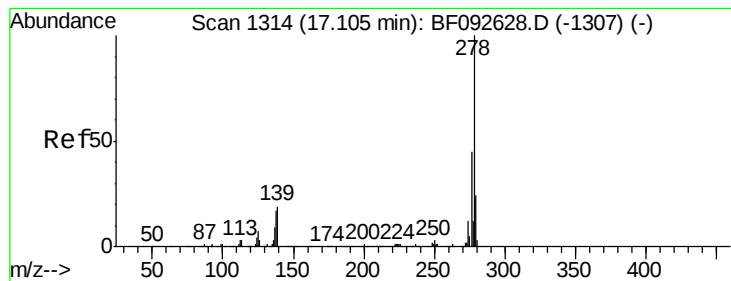
mohammad
3/1/2017 4:07:12 PM



#89
Benzo(a)pyrene
Concen: 26.13 ng
RT: 15.36 min Scan# 1161
Delta R.T. -0.03 min
Lab File: BF093282.D
Acq: 1 Mar 2017 9:13

Tgt Ion: 252 Resp: 270726
Ion Ratio Lower Upper
252 100
253 23.3 18.2 27.2
125 12.4 10.0 15.0





#90

Dibenzo(a,h)anthracene

Concen: 6.26 ng

RT: 16.82 min Scan# 1289

Delta R.T. -0.05 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Instrument :

BNA_F

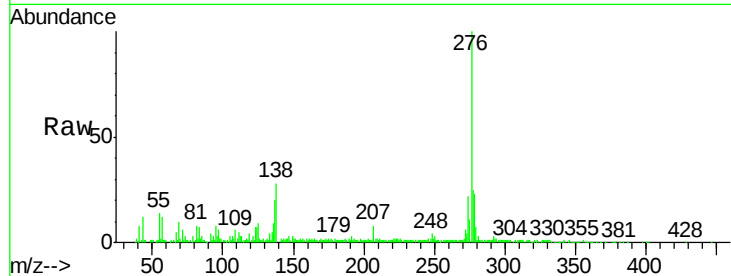
ClientSampleId :

TK3-6-20170227DL

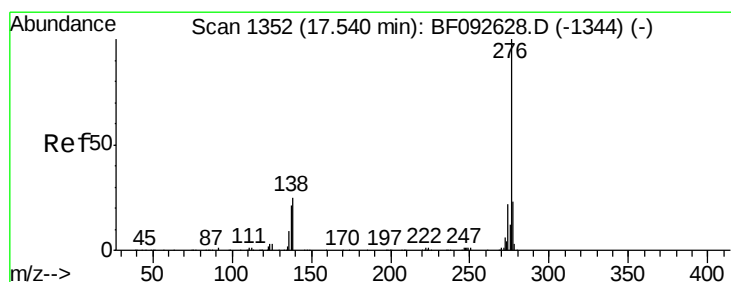
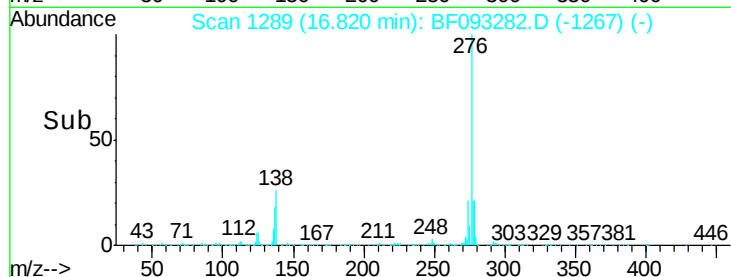
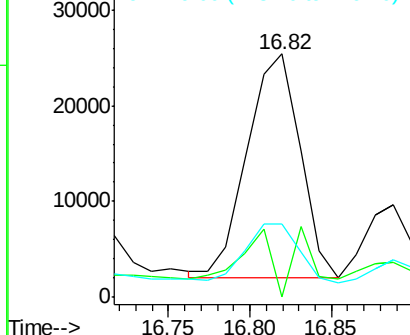
Tgt Ion:	278	Resp:	52424
Ion Ratio	Lower	Upper	
278	100		
139	0.0	14.8	22.2#
279	30.2	19.8	29.6#

Manual Integrations
APPROVED

mohammad
3/1/2017 4:07:12 PM



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: 23.95 ng

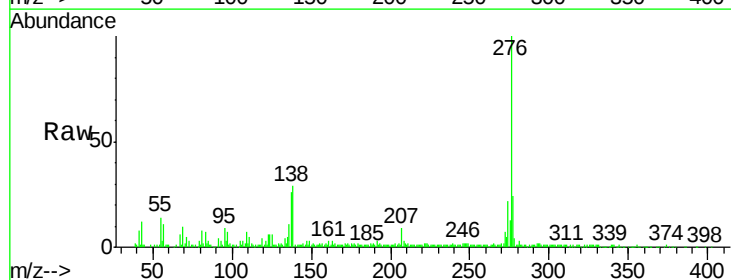
RT: 17.24 min Scan# 1326

Delta R.T. -0.05 min

Lab File: BF093282.D

Acq: 1 Mar 2017 9:13

Tgt Ion:	276	Resp:	202594
Ion Ratio	Lower	Upper	
276	100		
277	23.9	19.2	28.8
138	28.7	16.0	24.0#



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

