

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021517\
 Data File : BF092973.D
 Acq On : 16 Feb 2017 1:26
 Operator : SJ/MA
 Sample : I1850-05
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP21-COMP15

Manual Integrations
 APPROVED

mohammad
 2/16/2017 11:39:12 AM

Quant Time: Feb 16 03:03:44 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 13 18:04:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	160623	20.00	ng	-0.01
21) Naphthalene-d8	8.16	136	617004	20.00	ng	-0.01
38) Acenaphthene-d10	9.90	164	308416	20.00	ng	-0.02
63) Phenanthrene-d10	11.39	188	462221	20.00	ng	-0.01
75) Chrysene-d12	14.02	240	311399	20.00	ng	-0.03
86) Perylene-d12	15.46	264	291109	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1182182	126.27	ng	-0.01
7) Phenol-d6	6.51	99	1408637	116.94	ng	-0.02
23) Nitrobenzene-d5	7.44	82	880194	79.44	ng	-0.02
41) 2,4,6-Tribromophenol	10.69	330	247019	110.74	ng	-0.02
44) 2-Fluorobiphenyl	9.23	172	1249853	73.42	ng	-0.01
78) Terphenyl-d14	12.98	244	940872	70.99	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.18	128	75067	2.40	ng	97
49) Dimethylphthalate	9.63	163	466123	22.44	ng	100
51) Acenaphthene	9.94	154	60898	3.37	ng	97
70) Phenanthrene	11.41	178	211206	7.98	ng	97
71) Anthracene	11.46	178	59529	2.24	ng	98
74) Fluoranthene	12.60	202	257948	9.44	ng	95
77) Pyrene	12.83	202	262126	11.25	ng	98
80) Benzo(a)anthracene	14.02	228	122130	6.41	ng	# 92
82) Chrysene	14.05	228	98997m	5.55	ng	
85) Indeno(1,2,3-cd)pyrene	16.87	276	72760	5.27	ng	92
87) Benzo(b)fluoranthene	15.05	252	150559m	7.86	ng	
88) Benzo(k)fluoranthene	15.06	252	59435m	3.59	ng	
89) Benzo(a)pyrene	15.40	252	135902	8.20	ng	100
91) Benzo(g,h,i)perylene	17.30	276	73922	5.46	ng	# 89

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

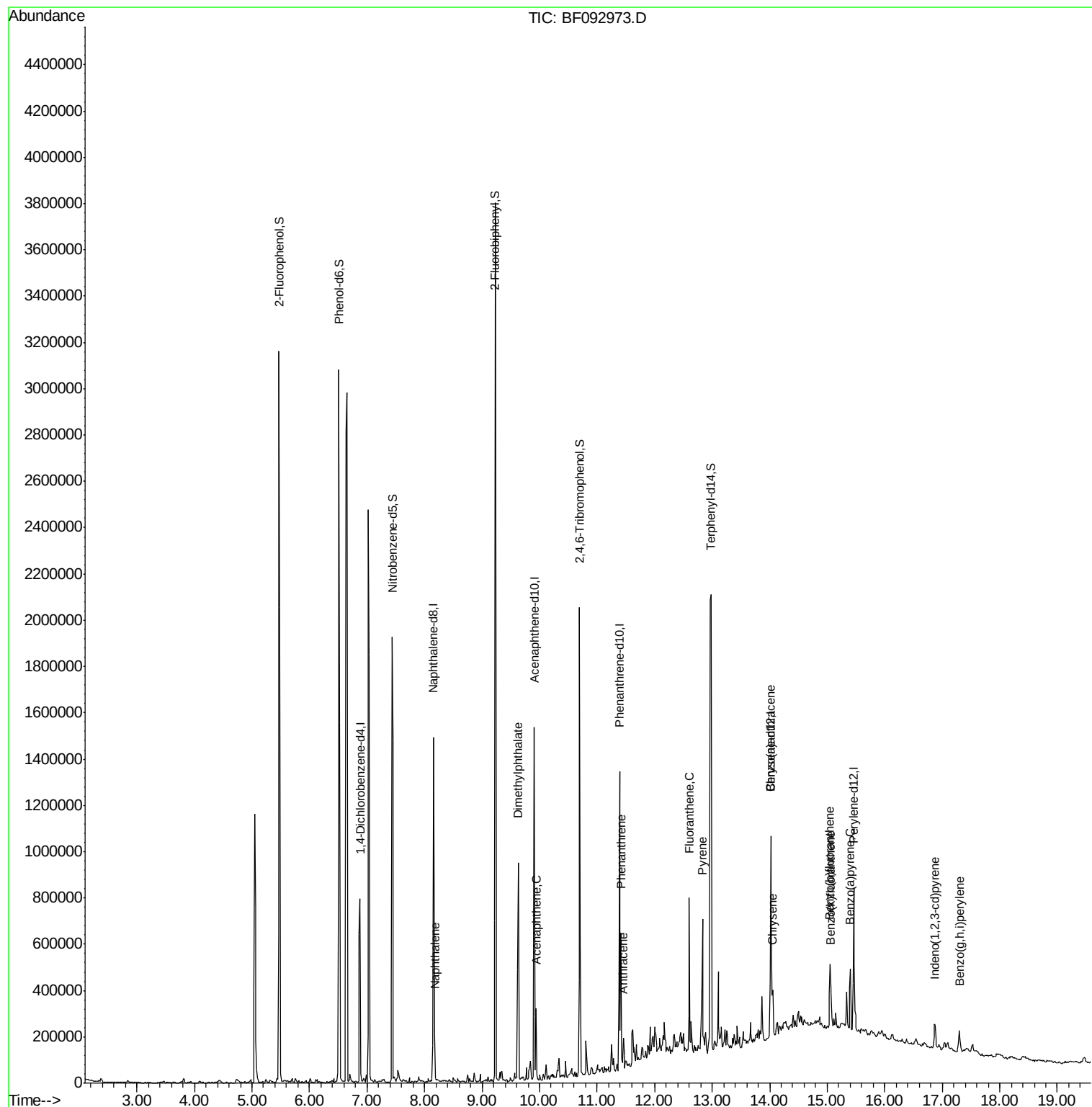
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021517\
Data File : BF092973.D
Acq On : 16 Feb 2017 1:26
Operator : SJ/MA
Sample : I1850-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

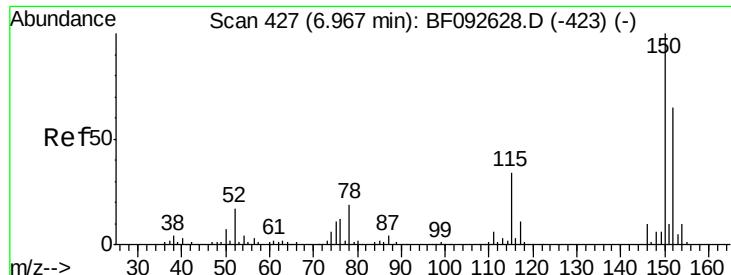
Instrument :
BNA_F
ClientSampleId :
TP21-COMP15

Manual Integrations
APPROVED

mohammad
2/16/2017 11:39:12 AM

Quant Time: Feb 16 03:03:44 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 13 18:04:38 2017
Response via : Initial Calibration

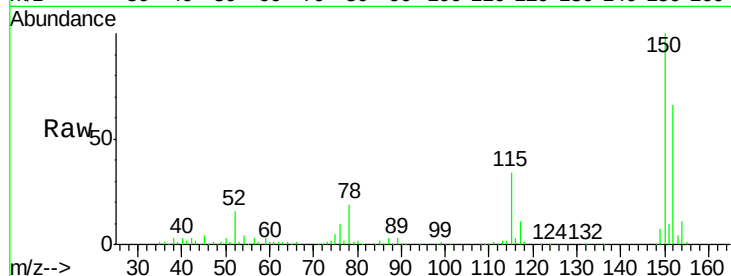




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.88 min Scan# 419
Delta R.T. -0.01 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

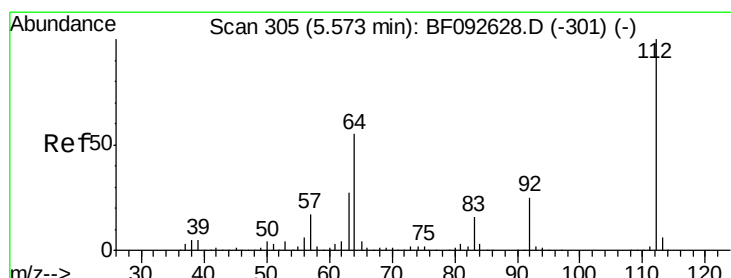
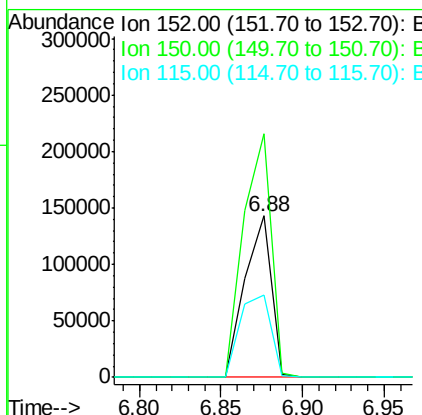
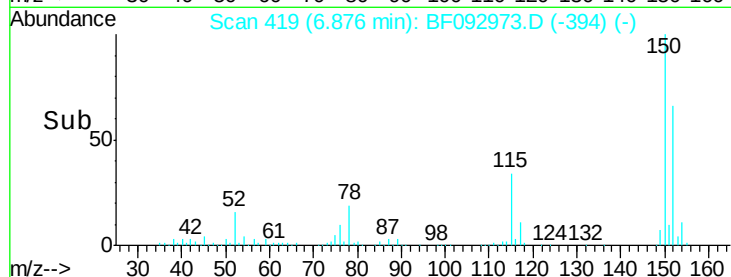
Instrument :
BNA_F
ClientSampleId :
TP21-COMP15



Tgt Ion	Ratio	Lower	Upper
152	100		
150	150.7	124.9	187.3
115	51.0	46.0	69.0

Manual Integrations
APPROVED

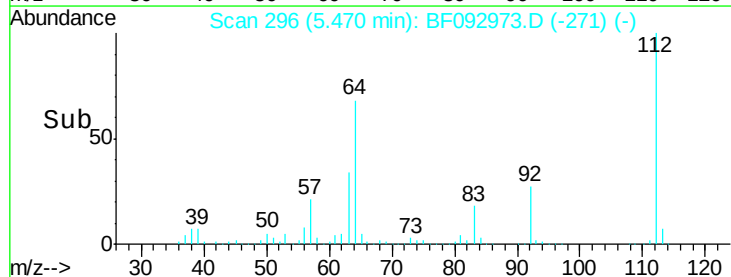
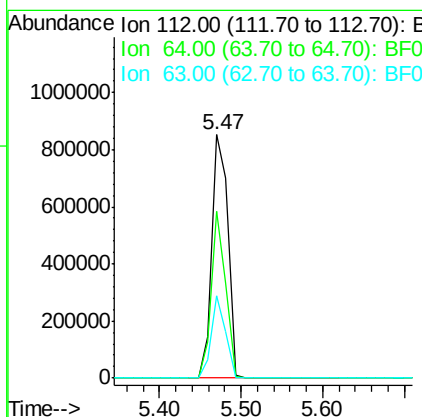
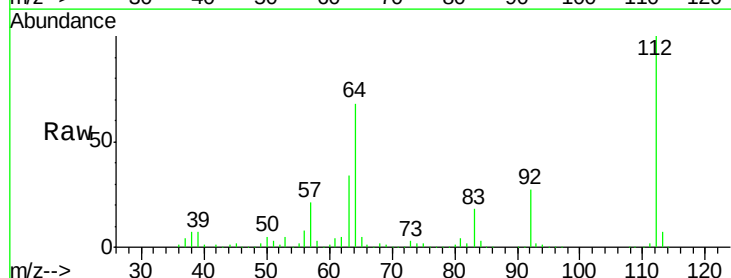
mohammad
2/16/2017 11:39:12 AM

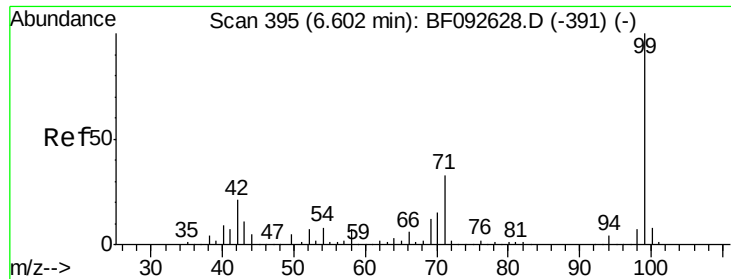


#5

2-Fluorophenol
Concen: 126.27 ng
RT: 5.47 min Scan# 296
Delta R.T. -0.01 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.3	46.1	69.1
63	33.8	23.8	35.6





#7

Phenol-d6

Concen: 116.94 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.02 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Instrument :

BNA_F

ClientSampleId :

TP21-COMP15

Tgt Ion: 99 Resp: 1408637

Ion Ratio Lower Upper

99 100

42 20.3 15.6 23.4

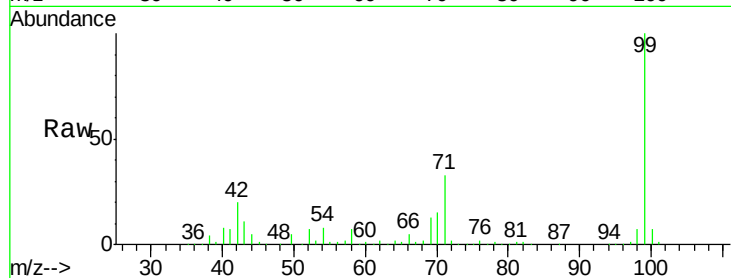
71 33.1 27.5 41.3

Manual Integrations

APPROVED

mohammad

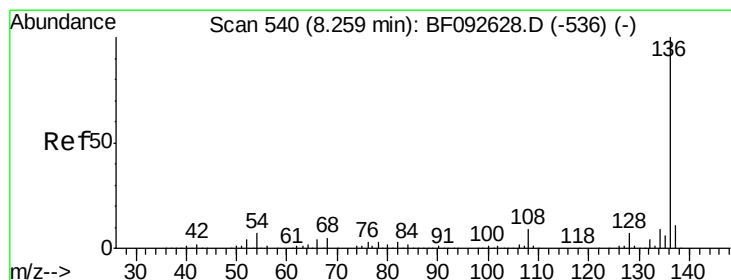
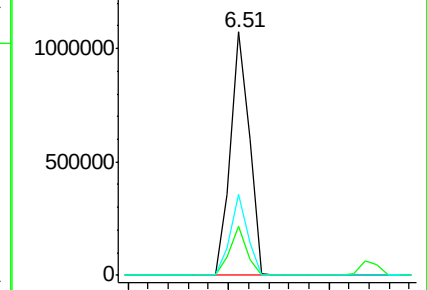
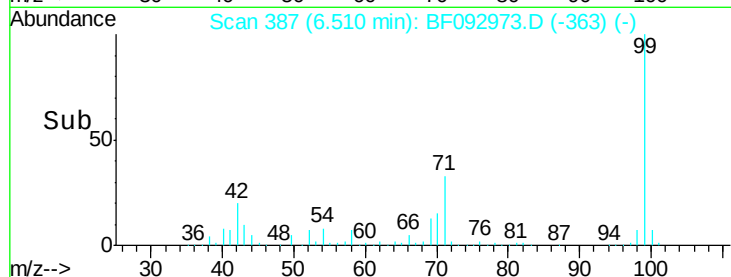
2/16/2017 11:39:12 AM



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: 8.16 min Scan# 531

Delta R.T. -0.01 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Tgt Ion: 136 Resp: 617004

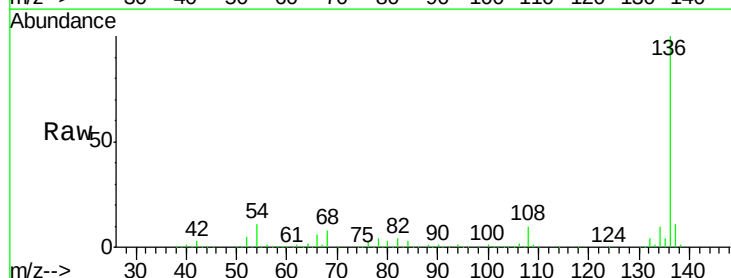
Ion Ratio Lower Upper

136 100

137 11.1 8.4 12.6

54 11.0 4.5 6.7#

68 7.6 3.6 5.4#

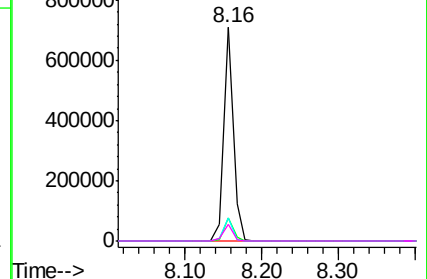
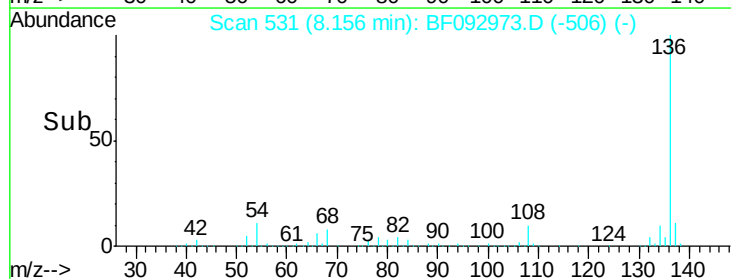


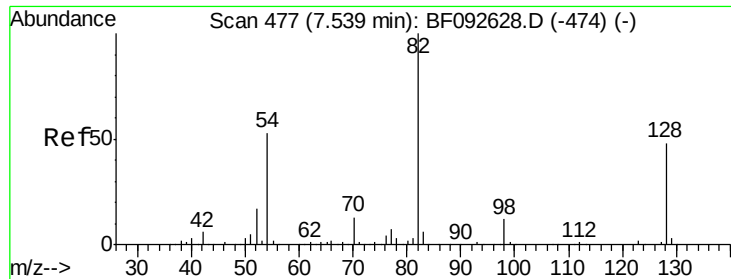
Abundance Ion 136.00 (135.70 to 136.70): E

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





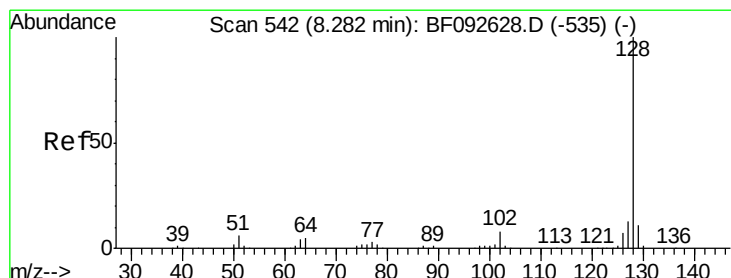
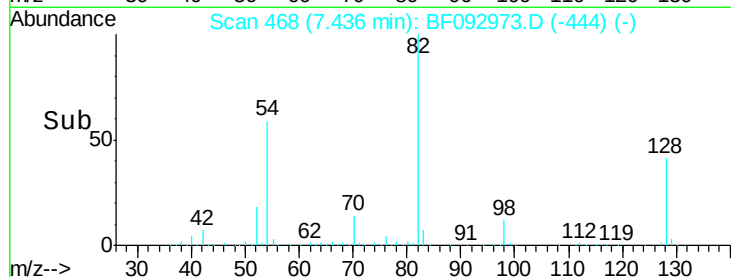
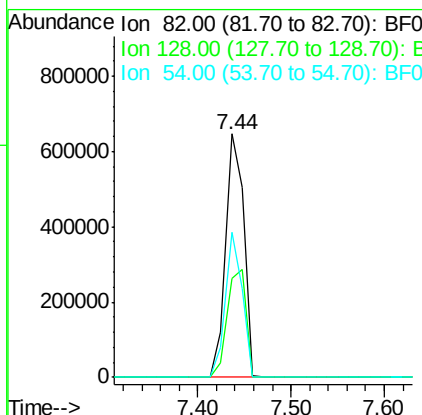
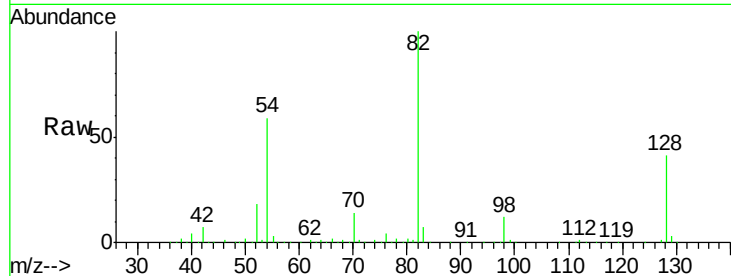
#23
 Nitrobenzene-d5
 Concen: 79.44 ng
 RT: 7.44 min Scan# 468
 Delta R.T. -0.02 min
 Lab File: BF092973.D
 Acq: 16 Feb 2017 1:26

Instrument :
 BNA_F
 ClientSampleId :
 TP21-COMP15

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	880194		
128	40.6	34.6	52.0	
54	59.4	39.5	59.3#	

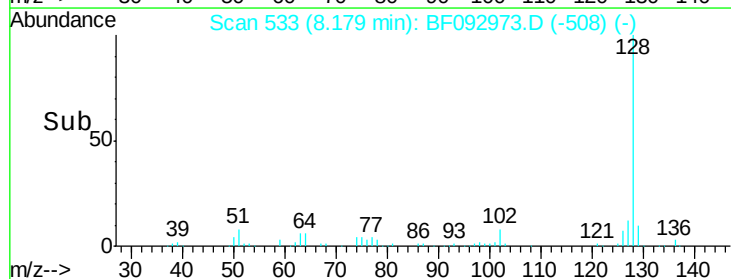
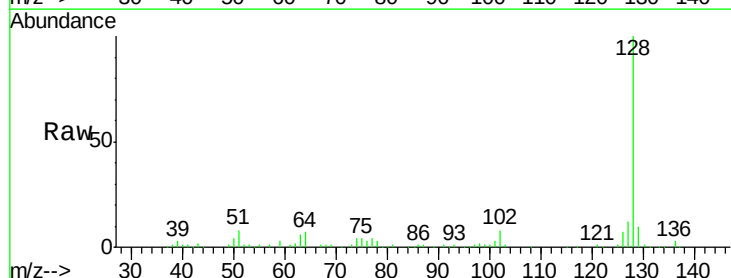
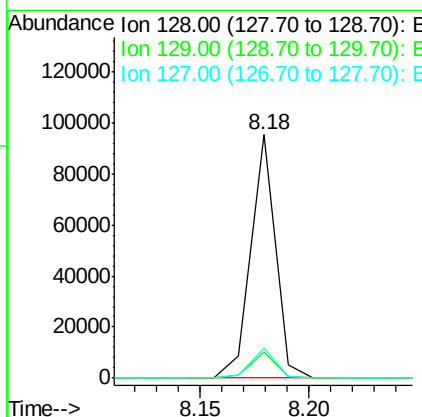
Manual Integrations
 APPROVED

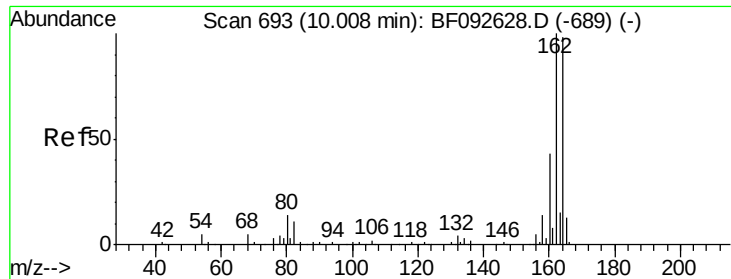
mohammad
 2/16/2017 11:39:12 AM



#31
 Naphthalene
 Concen: 2.40 ng
 RT: 8.18 min Scan# 533
 Delta R.T. -0.01 min
 Lab File: BF092973.D
 Acq: 16 Feb 2017 1:26

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	75067		
129	10.5	9.5	14.3	
127	12.2	10.8	16.2	





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.02 min

Lab File: BF092973.D

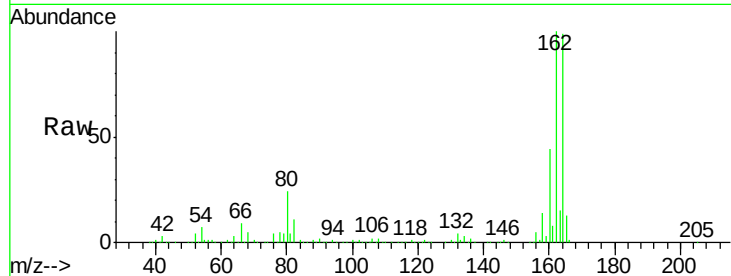
Acq: 16 Feb 2017 1:26

Instrument :

BNA_F

ClientSampleId :

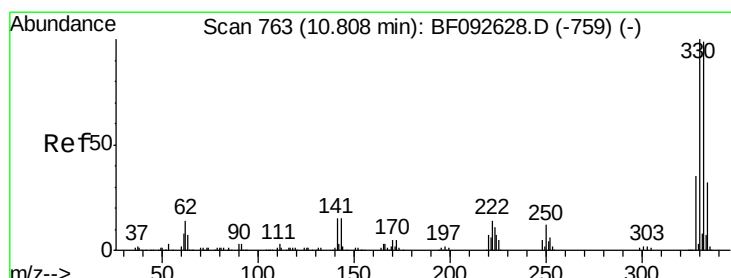
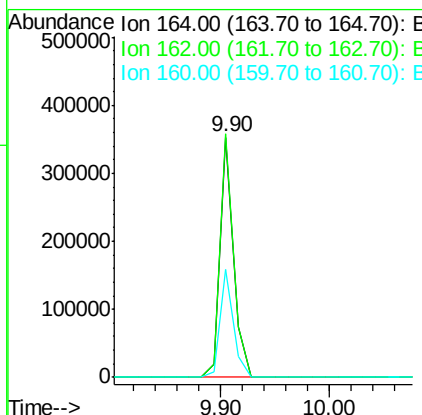
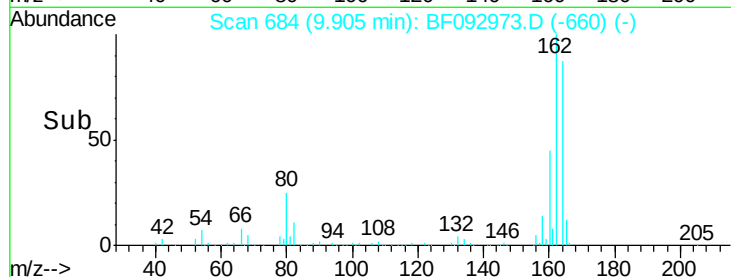
TP21-COMP15



Tgt Ion:	164	Resp:	308416
Ion Ratio	Lower	Upper	
164	100		
162	101.3	80.2	120.2
160	44.7	36.9	55.3

Manual Integrations
APPROVED

mohammad
2/16/2017 11:39:12 AM



#41

2,4,6-Tribromophenol

Concen: 110.74 ng

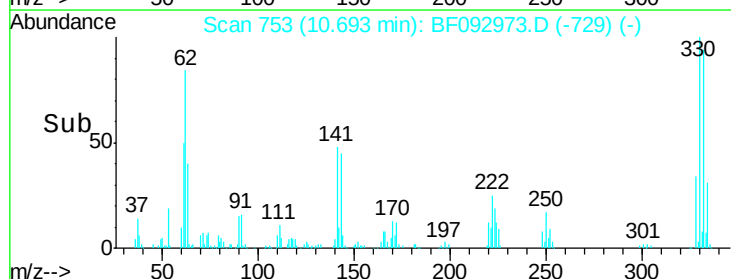
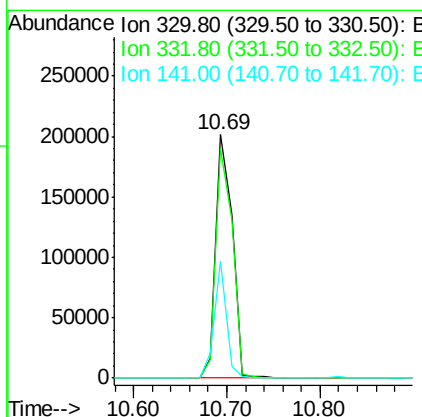
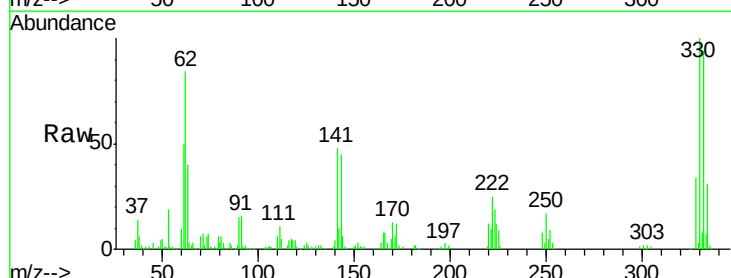
RT: 10.69 min Scan# 753

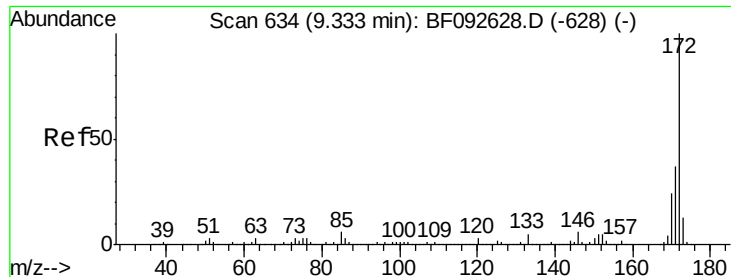
Delta R.T. -0.02 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Tgt Ion:	330	Resp:	247019
Ion Ratio	Lower	Upper	
330	100		
332	95.1	77.4	116.2
141	36.5	34.1	51.1





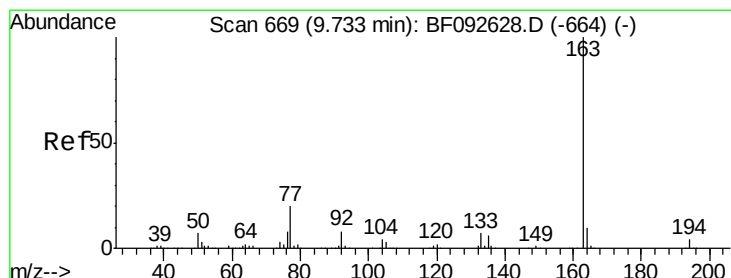
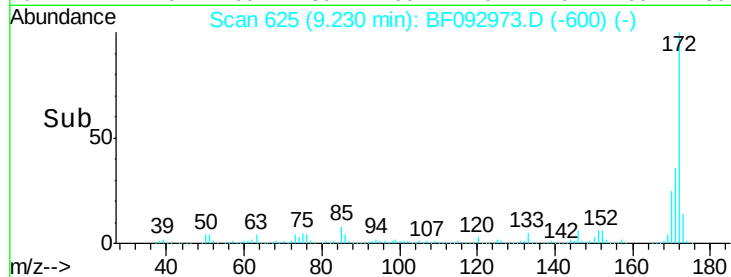
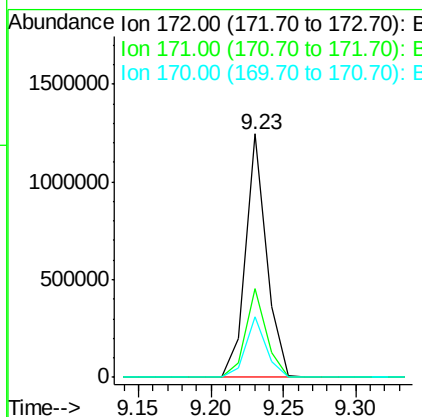
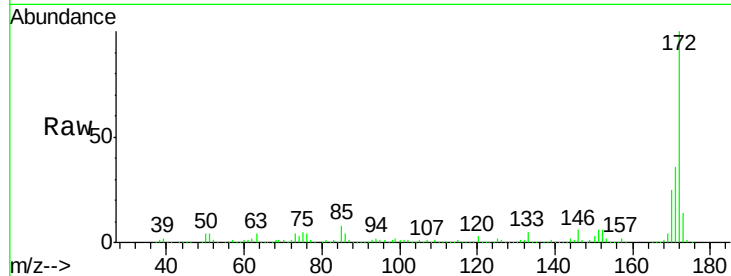
#44
2-Fluorobiphenyl
Concen: 73.42 ng
RT: 9.23 min Scan# 625
Delta R.T. -0.01 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Instrument :
BNA_F
ClientSampleId :
TP21-COMP15

Tgt Ion:172 Resp: 1249853
Ion Ratio Lower Upper
172 100
171 36.4 29.4 44.0
170 24.6 20.2 30.4

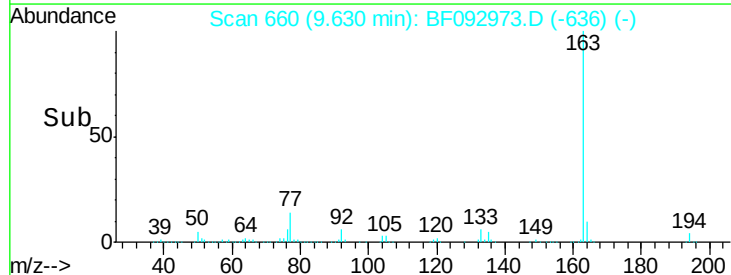
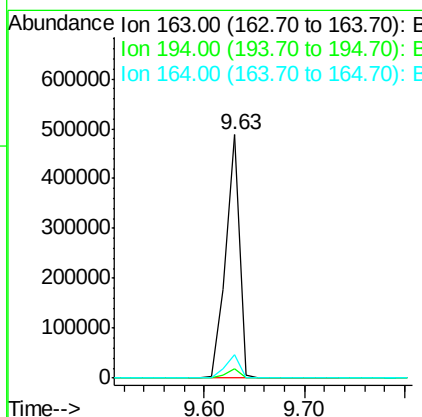
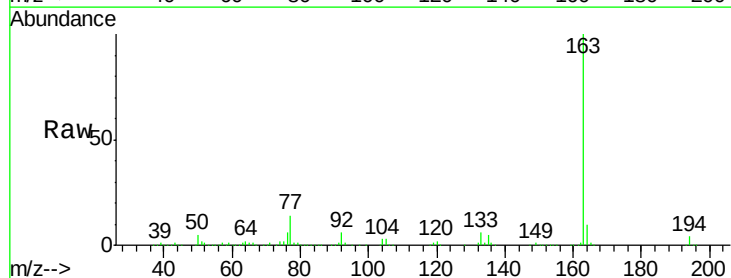
Manual Integrations
APPROVED

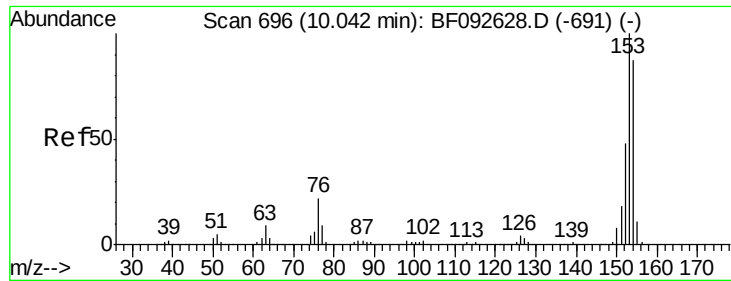
mohammad
2/16/2017 11:39:12 AM



#49
Dimethylphthalate
Concen: 22.44 ng
RT: 9.63 min Scan# 660
Delta R.T. -0.02 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Tgt Ion:163 Resp: 466123
Ion Ratio Lower Upper
163 100
194 3.9 3.0 4.4
164 9.9 8.0 12.0





#51

Acenaphthene

Concen: 3.37 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Instrument :

BNA_F

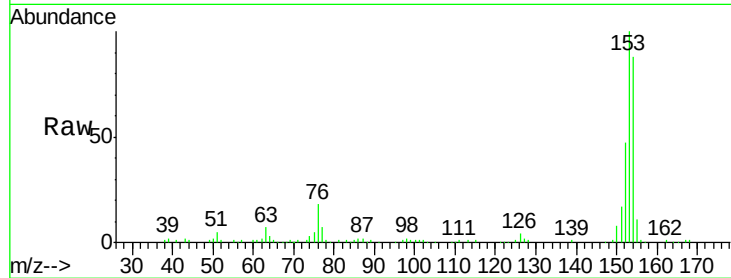
ClientSampleId :

TP21-COMP15

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	60898		
153	113.8	88.6	133.0	
152	54.0	41.6	62.4	

Manual Integrations
APPROVED

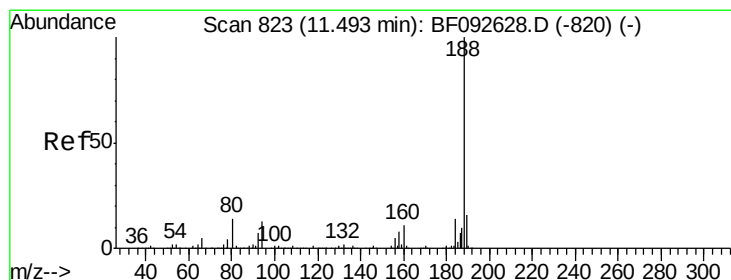
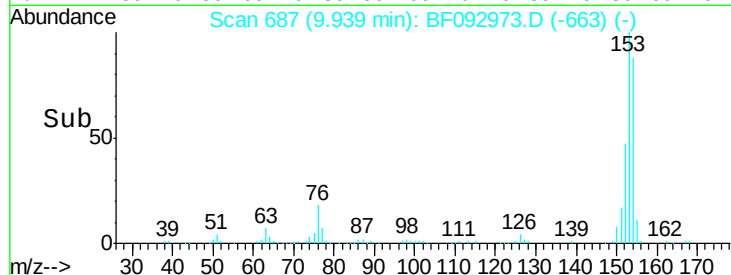
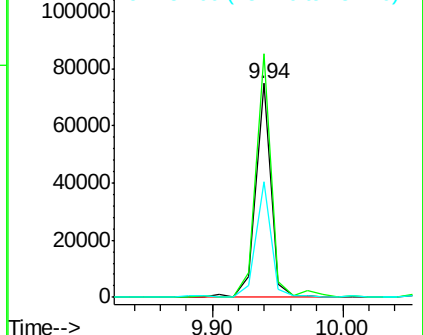
mohammad
2/16/2017 11:39:12 AM



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

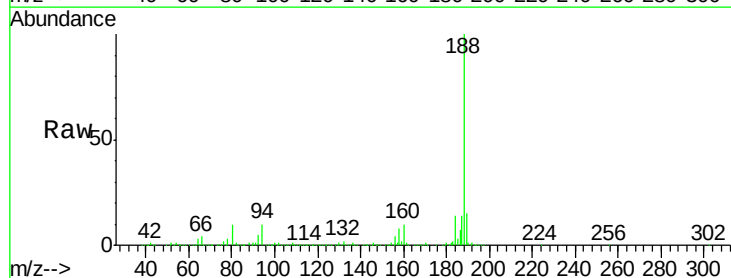
RT: 11.39 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

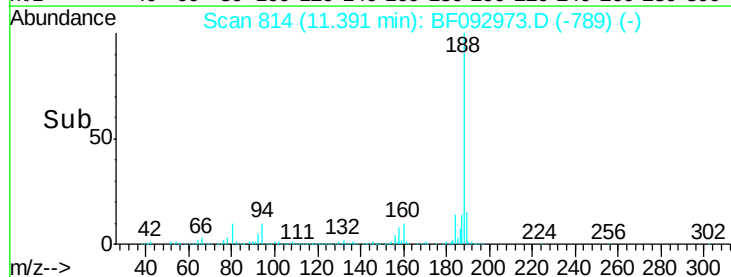
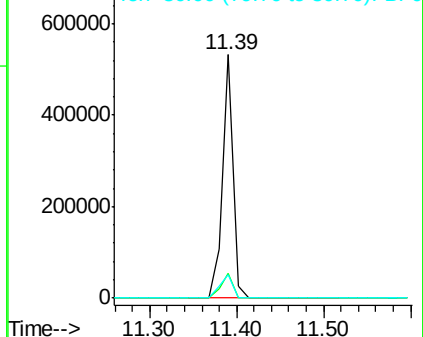
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	462221		
94	9.9	10.0	15.0#	
80	9.8	11.2	16.8#	

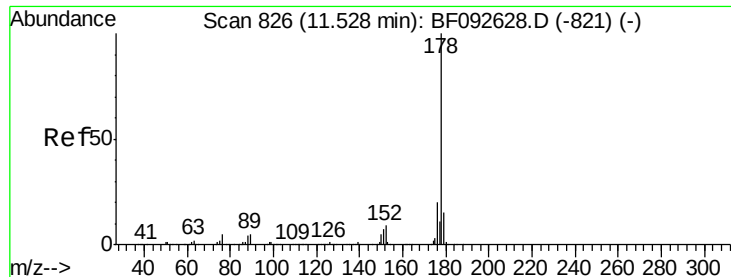


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





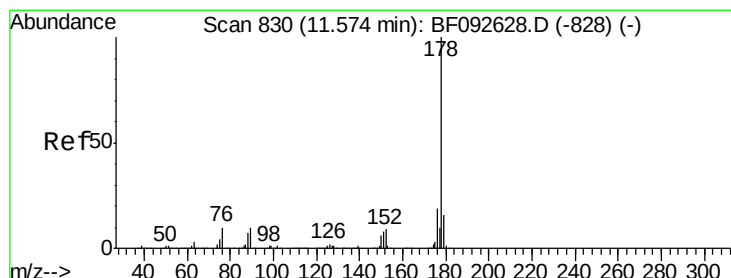
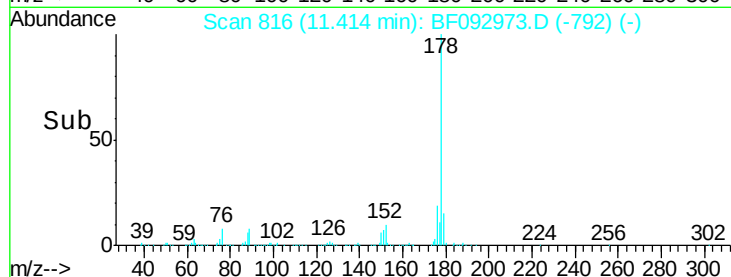
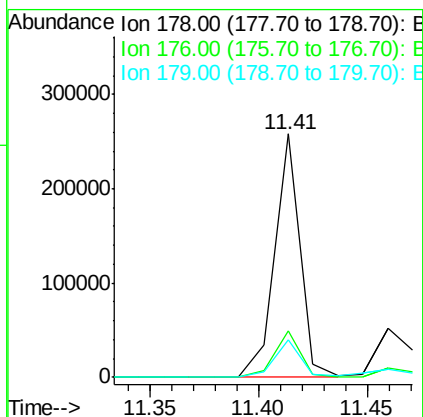
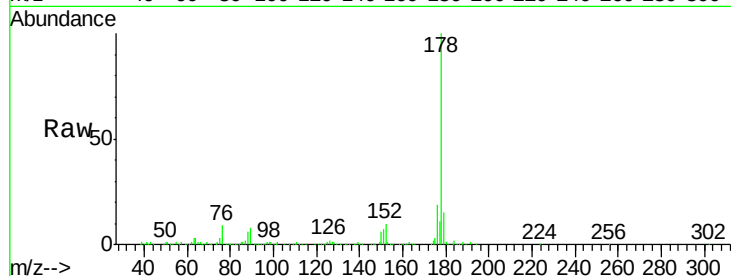
#70
Phenanthrene
Concen: 7.98 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.02 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Instrument :
BNA_F
ClientSampleId :
TP21-COMP15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.6	25.0
179	15.2	12.8	19.2

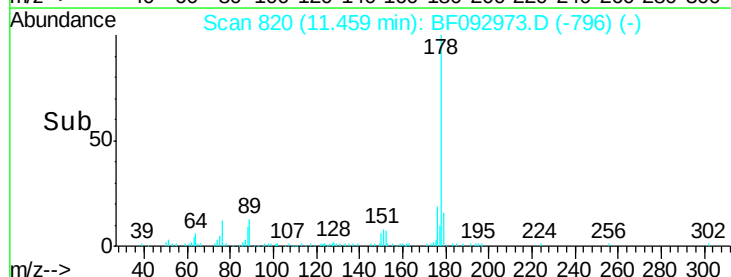
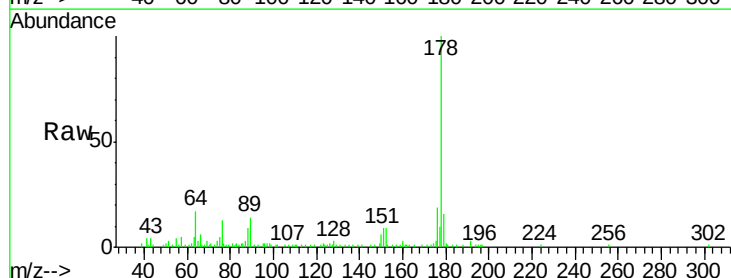
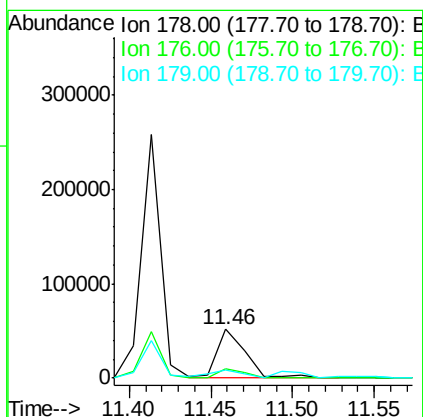
Manual Integrations
APPROVED

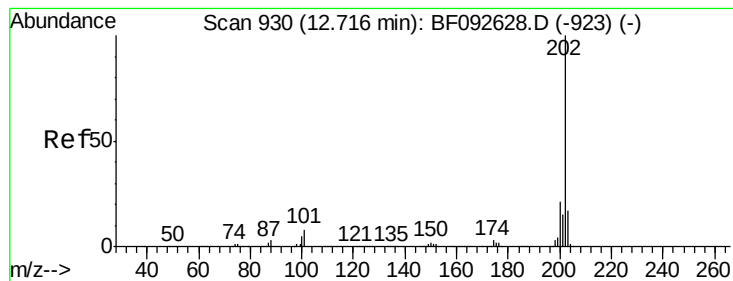
mohammad
2/16/2017 11:39:12 AM



#71
Anthracene
Concen: 2.24 ng
RT: 11.46 min Scan# 820
Delta R.T. -0.02 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.9	23.9
179	16.1	13.2	19.8





#74

Fluoranthene

Concen: 9.44 ng

RT: 12.60 min Scan# 920

Delta R.T. -0.02 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Instrument :

BNA_F

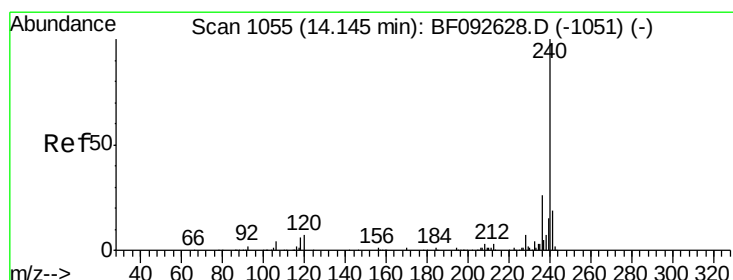
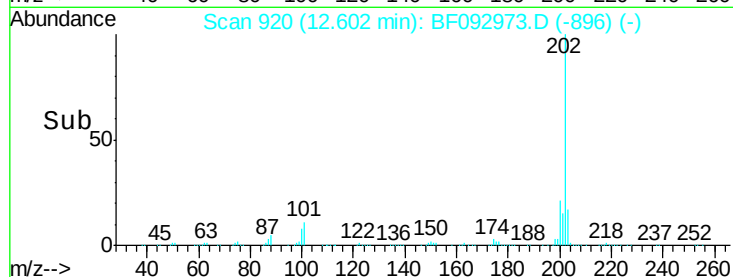
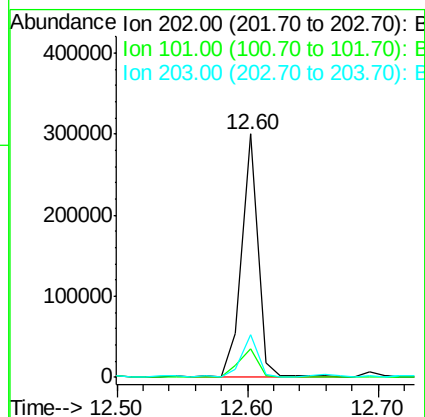
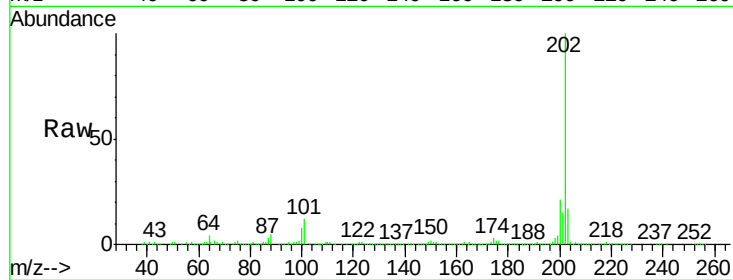
ClientSampleId :

TP21-COMP15

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	11.6	0.0	34.6
203	17.4	0.0	38.7

Manual Integrations
APPROVED

mohammad
2/16/2017 11:39:12 AM



#75

Chrysene-d12

Concen: 20.00 ng

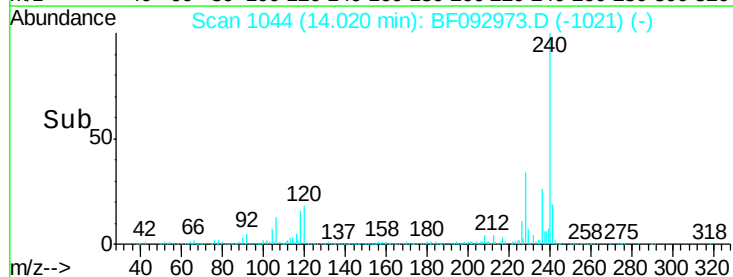
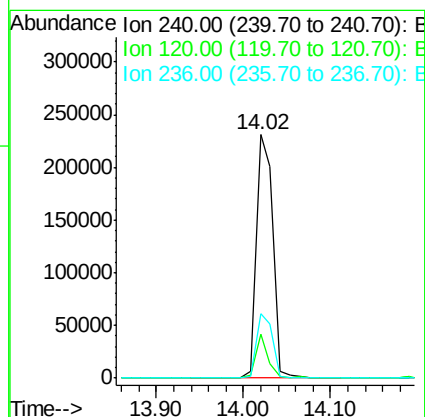
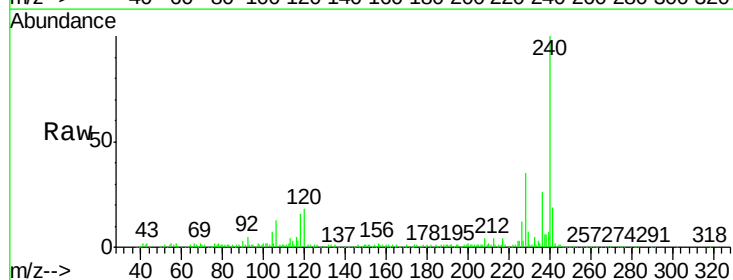
RT: 14.02 min Scan# 1044

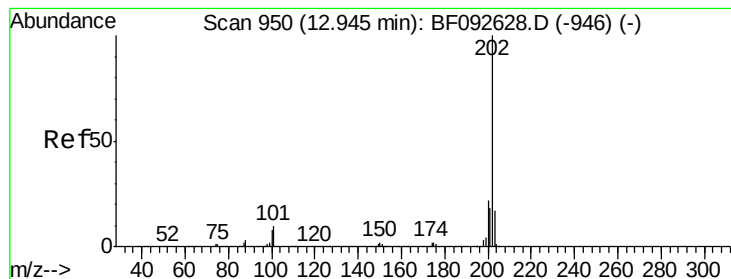
Delta R.T. -0.03 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	18.3	12.9	19.3
236	26.3	20.9	31.3





#77

Pyrene

Concen: 11.25 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Instrument :

BNA_F

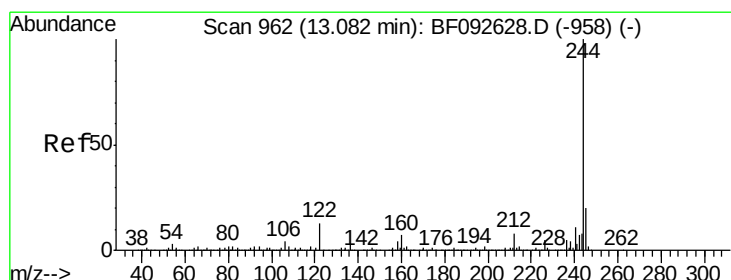
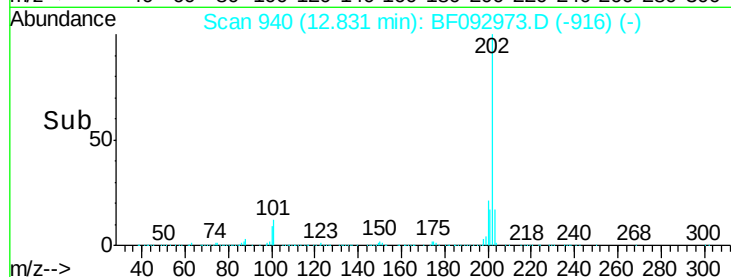
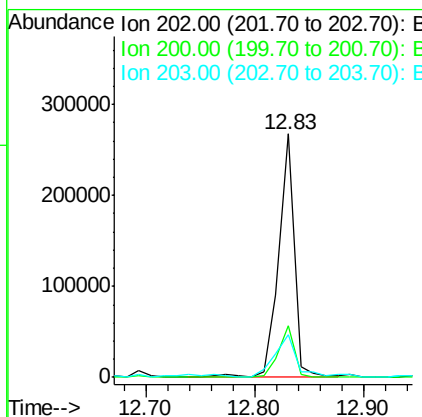
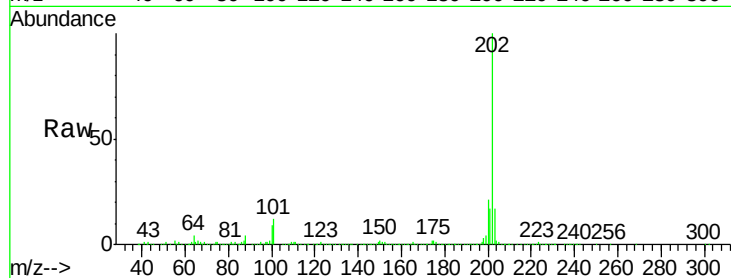
ClientSampleId :

TP21-COMP15

Tgt Ion:	202	Resp:	262126
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.7	26.5
203	17.3	14.7	22.1

Manual Integrations
APPROVED

mohammad
2/16/2017 11:39:12 AM



#78

Terphenyl-d14

Concen: 70.99 ng

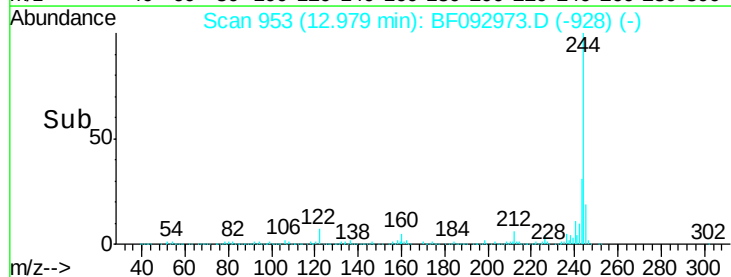
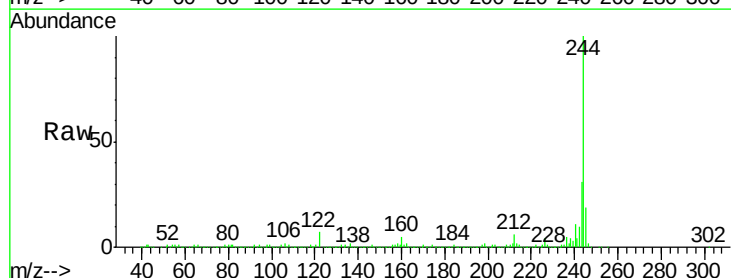
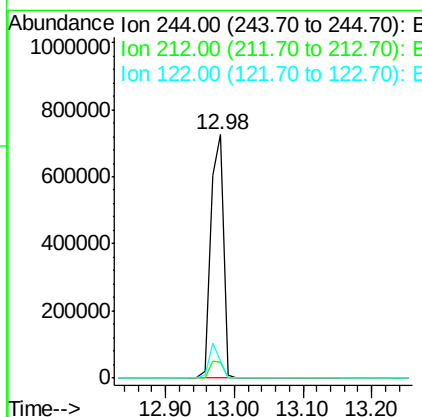
RT: 12.98 min Scan# 953

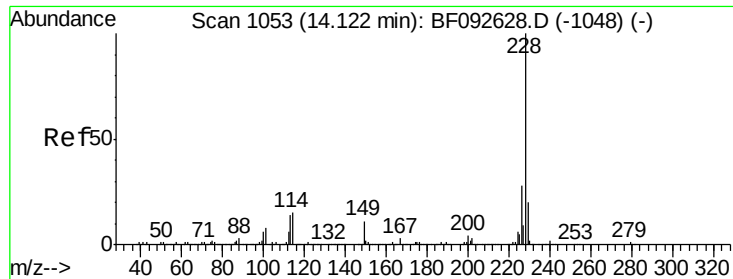
Delta R.T. -0.01 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Tgt Ion:	244	Resp:	940872
Ion Ratio	Lower	Upper	
244	100		
212	6.5	6.2	9.2
122	6.8	11.4	17.2#





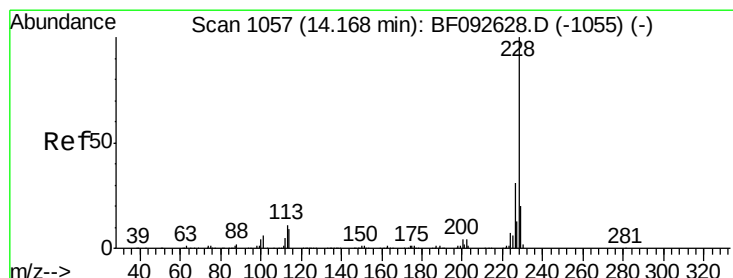
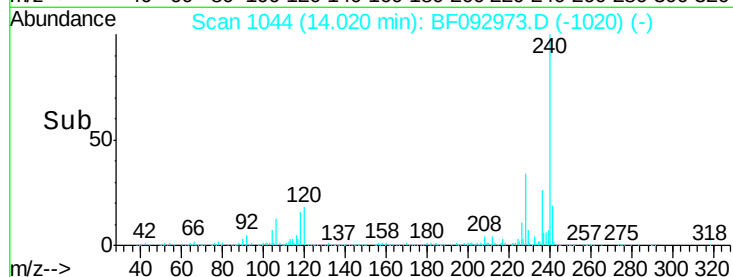
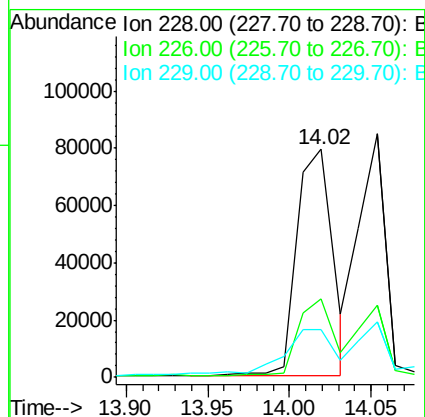
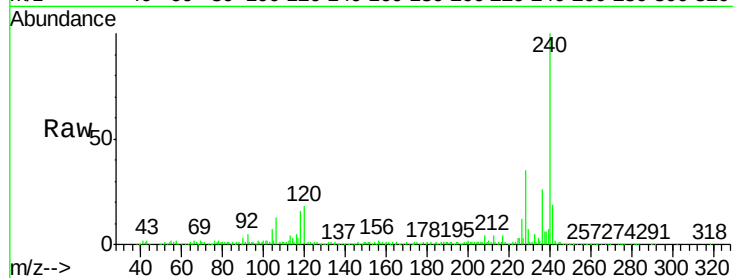
#80
Benzo(a)anthracene
Concen: 6.41 ng
RT: 14.02 min Scan# 1044
Delta R.T. -0.02 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Instrument :
BNA_F
ClientSampleId :
TP21-COMP15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.3	22.4	33.6#
229	21.2	16.2	24.4

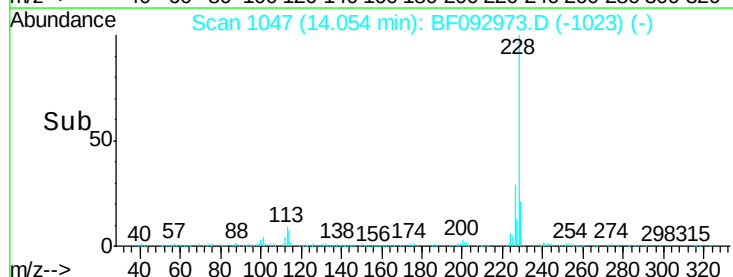
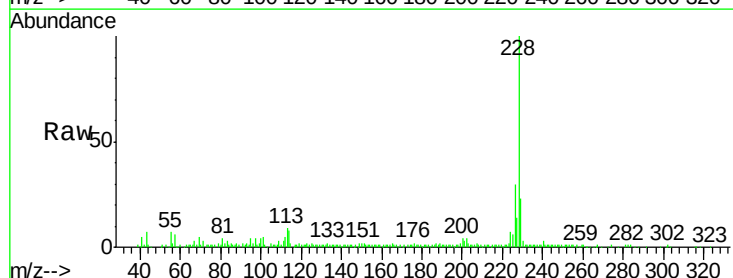
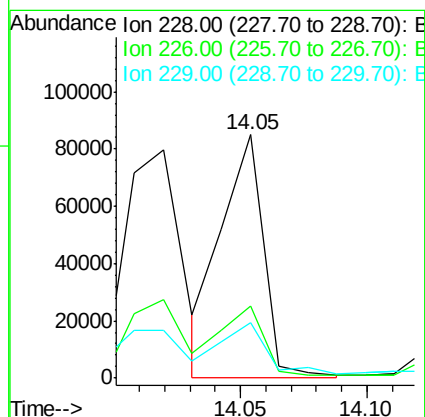
Manual Integrations
APPROVED

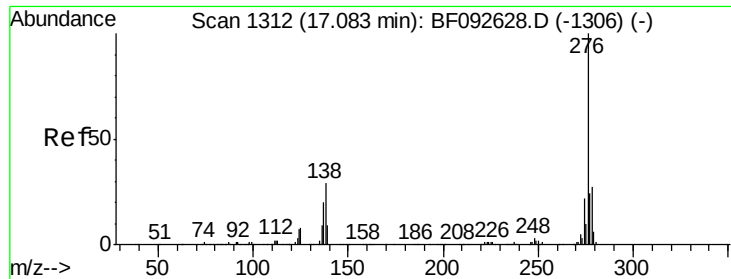
mohammad
2/16/2017 11:39:12 AM



#82
Chrysene
Concen: 5.55 ng m
RT: 14.05 min Scan# 1047
Delta R.T. -0.02 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.4	38.0
229	23.0	16.2	24.2





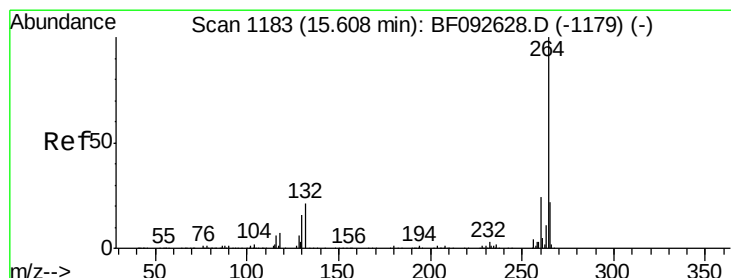
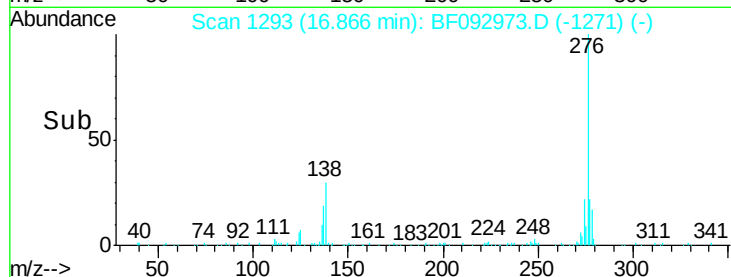
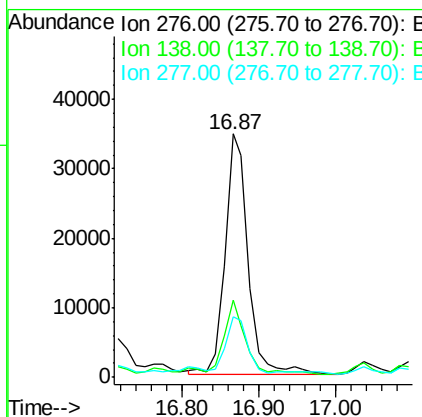
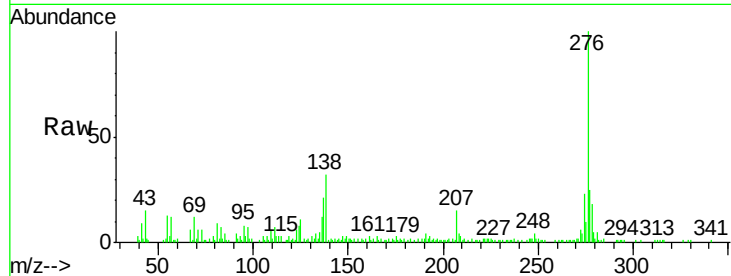
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.27 ng
RT: 16.87 min Scan# 1293
Delta R.T. -0.05 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Instrument :
BNA_F
ClientSampleId :
TP21-COMP15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.9	21.8	32.6
277	21.1	20.2	30.4

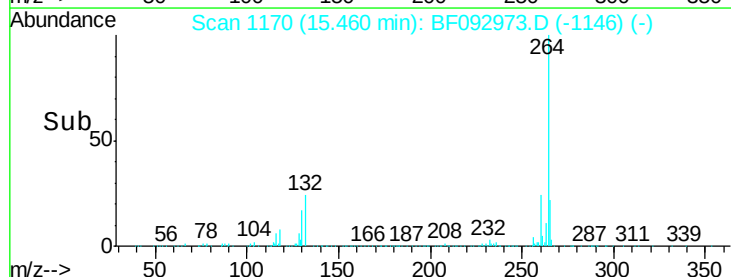
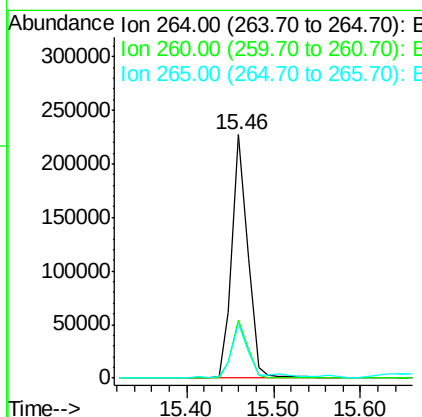
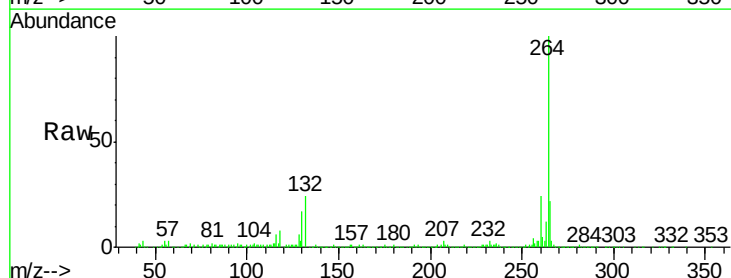
Manual Integrations
APPROVED

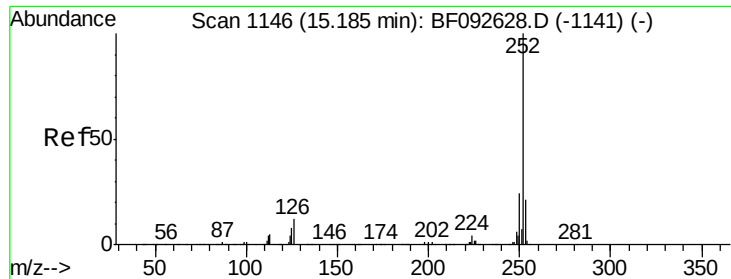
mohammad
2/16/2017 11:39:12 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.46 min Scan# 1170
Delta R.T. -0.02 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	22.2	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 7.86 ng m

RT: 15.05 min Scan# 1134

Delta R.T. -0.02 min

Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Instrument :

BNA_F

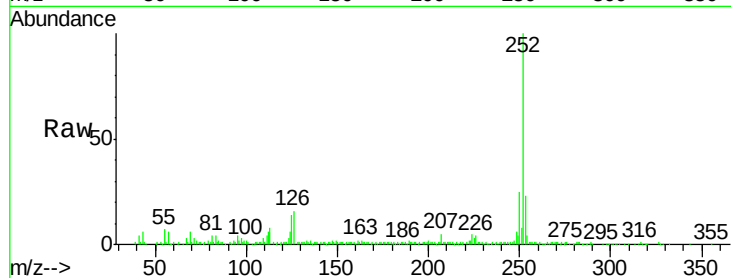
ClientSampleId :

TP21-COMP15

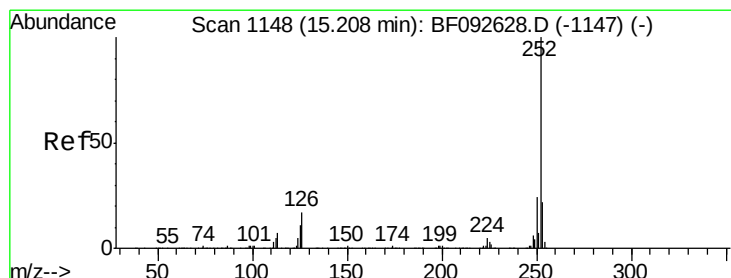
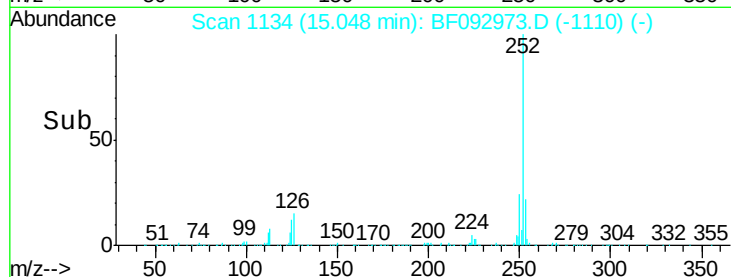
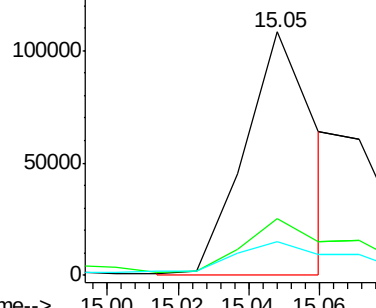
Tgt Ion:	252	Resp:	150559
Ion Ratio	Lower	Upper	
252	100		
253	23.2	18.2	27.4
125	13.7	9.8	14.6

Manual Integrations
APPROVED

mohammad
2/16/2017 11:39:12 AM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 3.59 ng m

RT: 15.06 min Scan# 1135

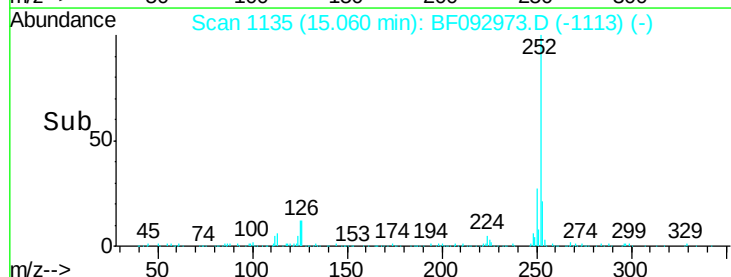
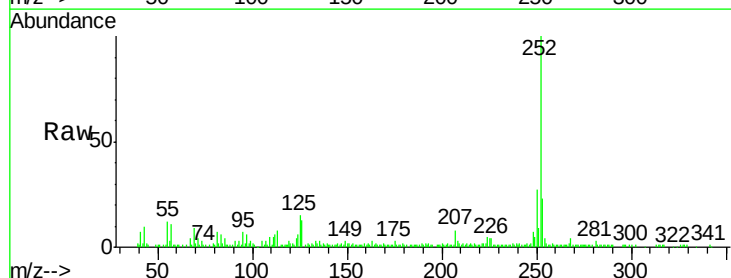
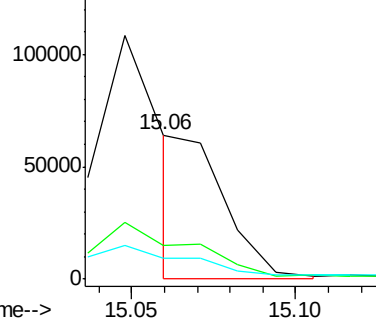
Delta R.T. -0.05 min

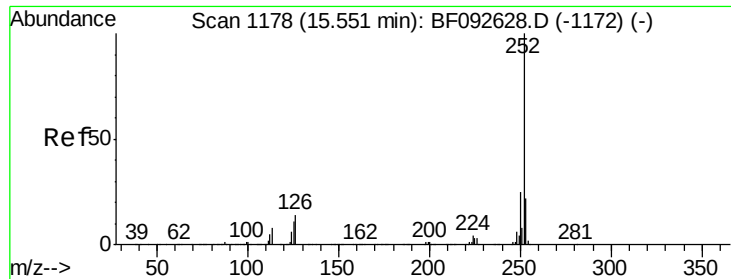
Lab File: BF092973.D

Acq: 16 Feb 2017 1:26

Tgt Ion:	252	Resp:	59435
Ion Ratio	Lower	Upper	
252	100		
253	23.2	18.5	27.7
125	14.6	8.9	13.3#

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





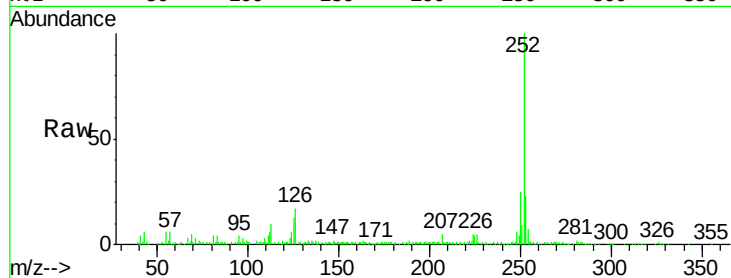
#89
Benzo(a)pyrene
Concen: 8.20 ng
RT: 15.40 min Scan# 1165
Delta R.T. -0.02 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Instrument :
BNA_F
ClientSampleId :
TP21-COMP15

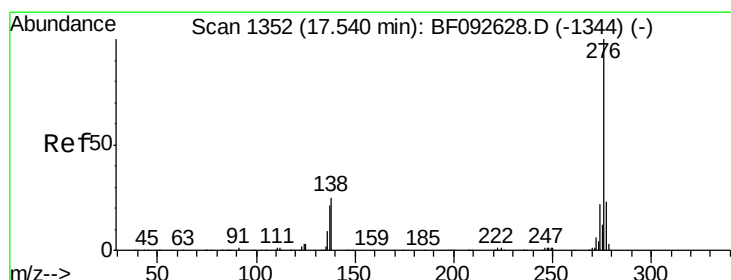
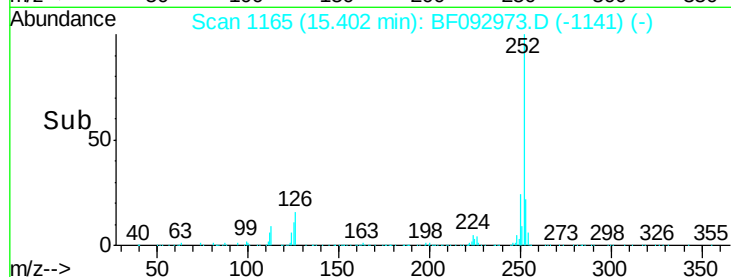
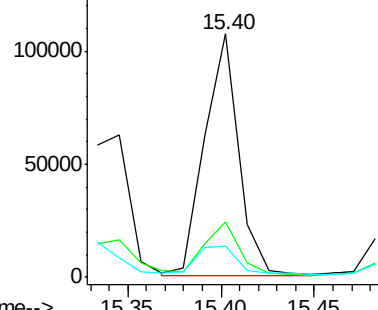
Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.9	18.2	27.2
125	12.6	10.0	15.0

Manual Integrations
APPROVED

mohammad
2/16/2017 11:39:12 AM

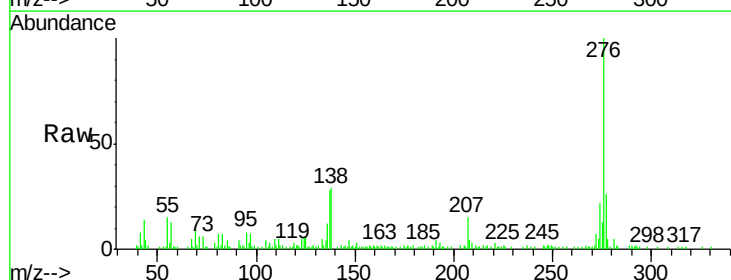


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 5.46 ng
RT: 17.30 min Scan# 1331
Delta R.T. -0.05 min
Lab File: BF092973.D
Acq: 16 Feb 2017 1:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	26.4	19.2	28.8
138	28.8	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

