

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
 Data File : BF095128.D
 Acq On : 15 May 2017 16:33
 Operator : SJ/MA
 Sample : I3120-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WP.RD-CORNELL-COMP

Manual Integrations
 APPROVED

mohammad
 5/17/2017 2:20:03 PM

Quant Time: May 16 07:35:59 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	97042	20.00	ng	0.05
21) Naphthalene-d8	9.80	136	358849	20.00	ng	0.04
38) Acenaphthene-d10	12.62	164	155538	20.00	ng	0.04
63) Phenanthrene-d10	15.03	188	260458	20.00	ng	0.05
75) Chrysene-d12	18.70	240	179810	20.00	ng	0.05
86) Perylene-d12	20.38	264	182054	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.75	112	607134	104.31	ng	0.07
7) Phenol-d6	7.32	99	792830	113.52	ng	0.04
23) Nitrobenzene-d5	8.68	82	461440	81.09	ng	0.04
41) 2,4,6-Tribromophenol	13.92	330	146403	114.93	ng	0.04
44) 2-Fluorobiphenyl	11.57	172	922828	85.40	ng	0.04
78) Terphenyl-d14	17.35	244	532265	65.20	ng	0.04
Target Compounds						Qvalue
10) Phenol	7.34	94	17930	2.44	ng	# 65
31) Naphthalene	9.84	128	64874	3.60	ng	97
37) 2-Methylnaphthalene	10.97	142	46918	3.96	ng	98
48) Acenaphthylene	12.41	152	39964	2.41	ng	# 94
49) Dimethylphthalate	12.26	163	118785	9.30	ng	99
51) Acenaphthene	12.68	154	28723	2.90	ng	97
54) Dibenzofuran	12.98	168	41721	3.05	ng	96
57) Fluorene	13.53	166	52798	4.44	ng	96
70) Phenanthrene	15.07	178	325963	21.78	ng	96
71) Anthracene	15.16	178	72020	4.71	ng	98
74) Fluoranthene	16.81	202	346656	22.58	ng	97
77) Pyrene	17.11	202	299781	22.29	ng	97
80) Benzo(a)anthracene	18.69	228	104983	10.03	ng	96
82) Chrysene	18.74	228	131432	12.99	ng	99
85) Indeno(1,2,3-cd)pyrene	21.72	276	54546	6.64	ng	93
87) Benzo(b)fluoranthene	19.97	252	137594m	12.23	ng	
88) Benzo(k)fluoranthene	20.00	252	56336m	5.19	ng	
89) Benzo(a)pyrene	20.32	252	102883	9.91	ng	95
91) Benzo(a,h,i)perylene	22.11	276	56629	6.73	ng	93

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

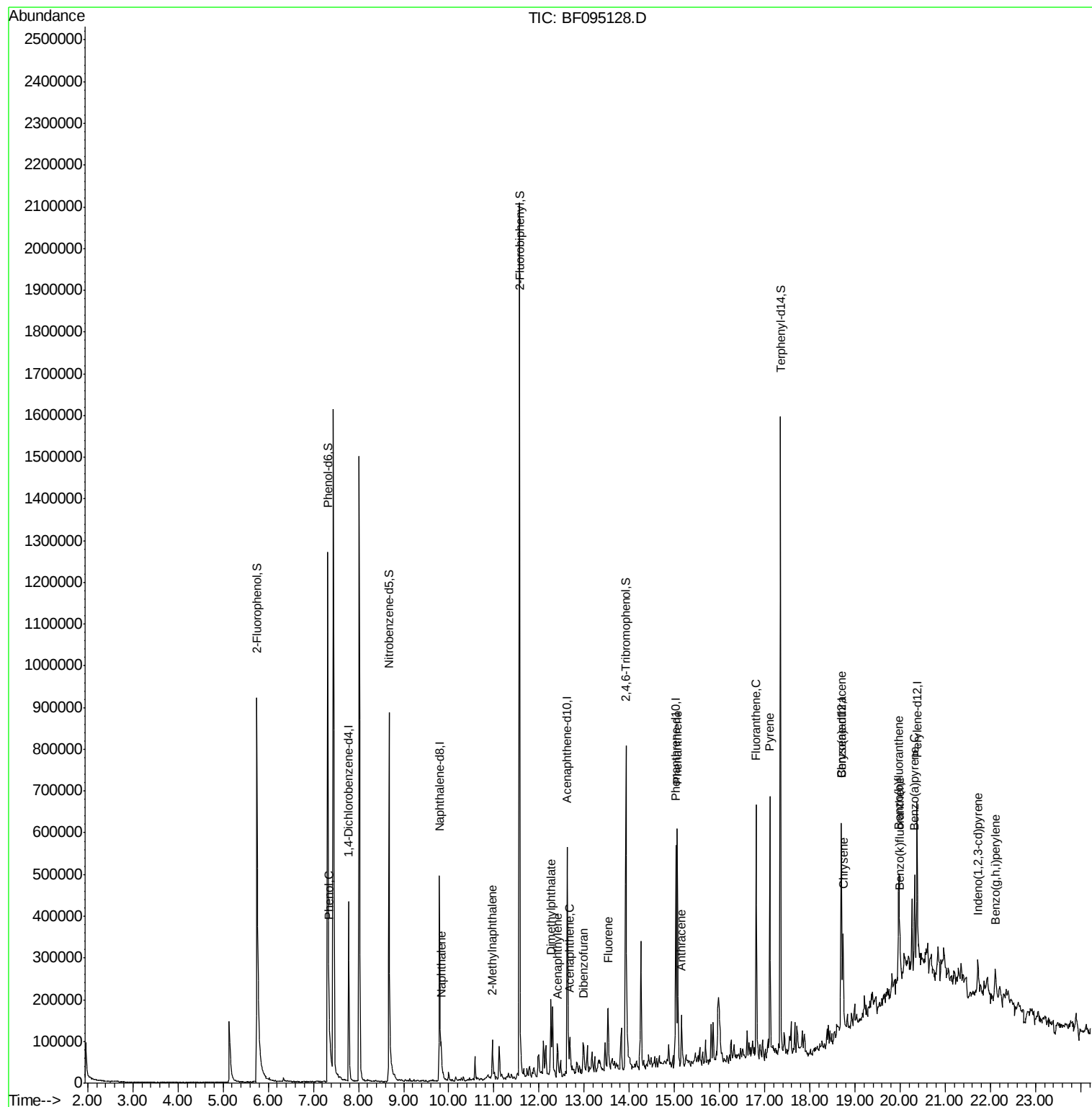
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095128.D
Acq On : 15 May 2017 16:33
Operator : SJ/MA
Sample : I3120-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

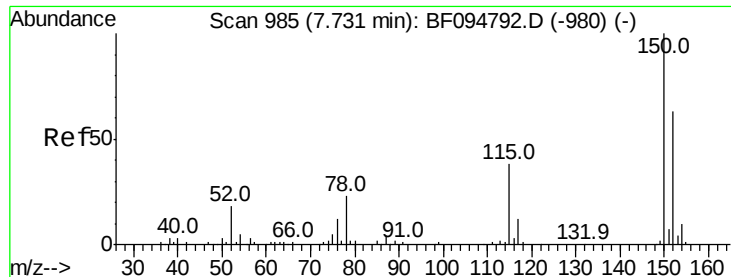
Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:03 PM

Quant Time: May 16 07:35:59 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 03 17:24:51 2017
Response via : Initial Calibration





#1

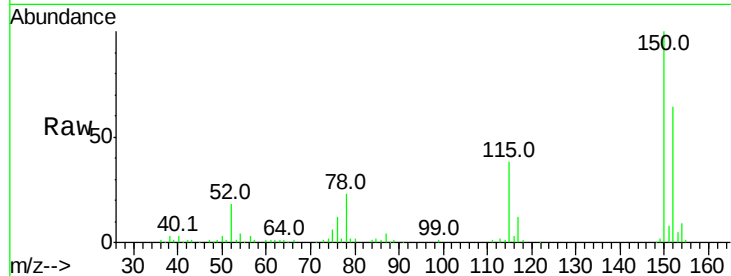
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.78 min Scan# 994
Delta R.T. 0.05 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

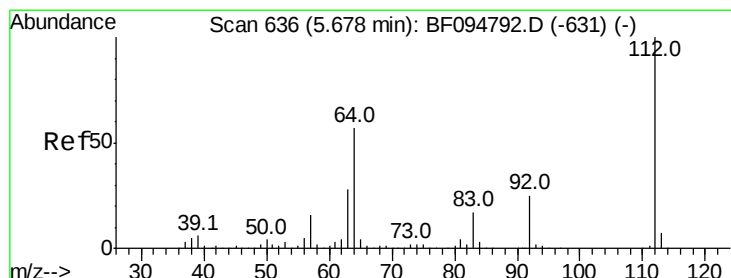
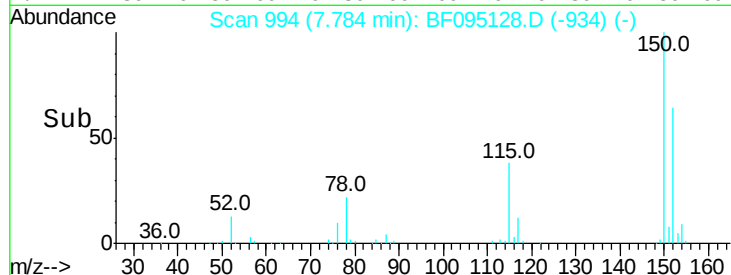
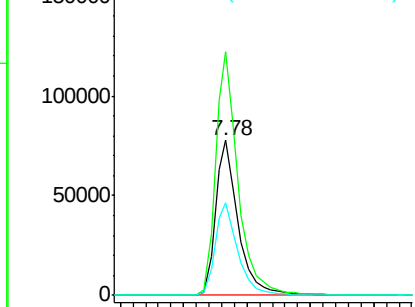
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	126.2	189.2
115	59.9	52.2	78.2

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:03 PM



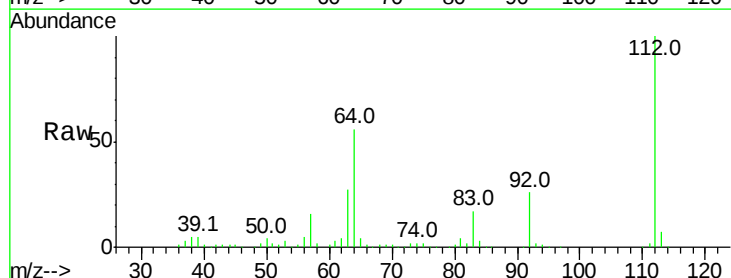
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



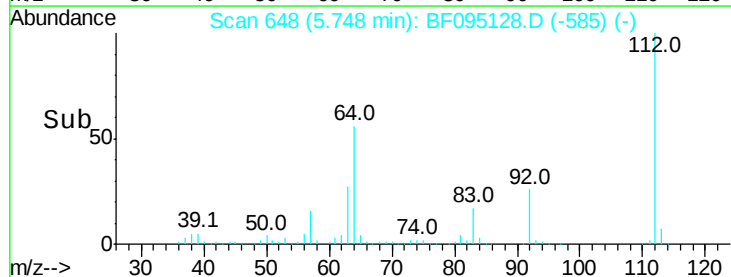
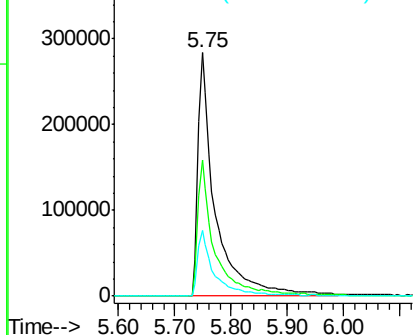
#5

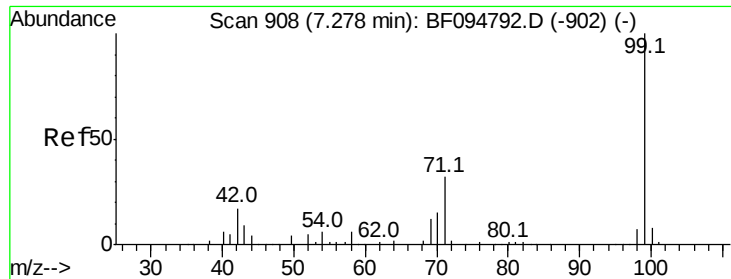
2-Fluorophenol
Concen: 104.31 ng
RT: 5.75 min Scan# 648
Delta R.T. 0.07 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	46.0	69.0
63	27.2	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 113.52 ng

RT: 7.32 min Scan# 915

Delta R.T. 0.04 min

Lab File: BF095128.D

Acq: 15 May 2017 16:33

Instrument :

BNA_F

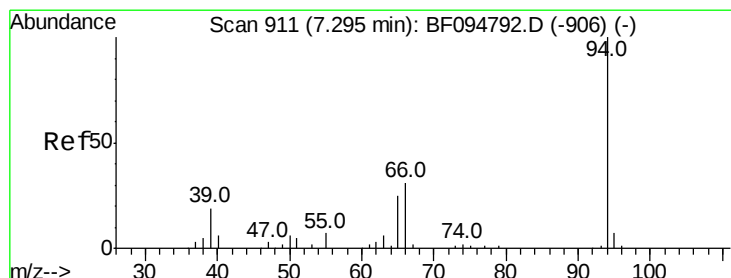
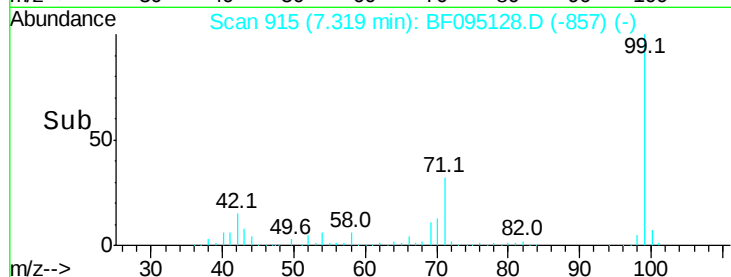
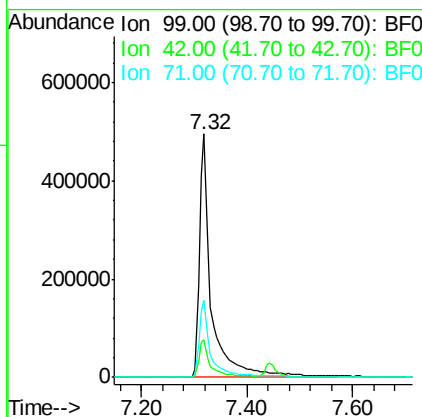
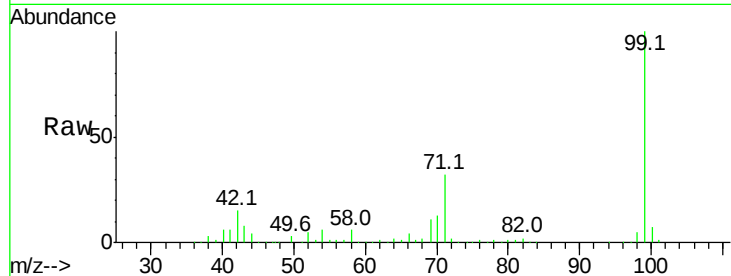
ClientSampleId :

WP.RD-CORNELL-COMP

Tot Ion:	99	Resp:	792830
Ion Ratio	Lower	Upper	
99	100		
42	15.5	13.5	20.3
71	31.7	24.5	36.7

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:03 PM



#10

Phenol

Concen: 2.44 ng

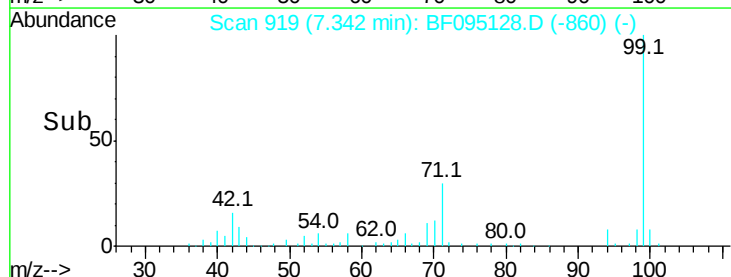
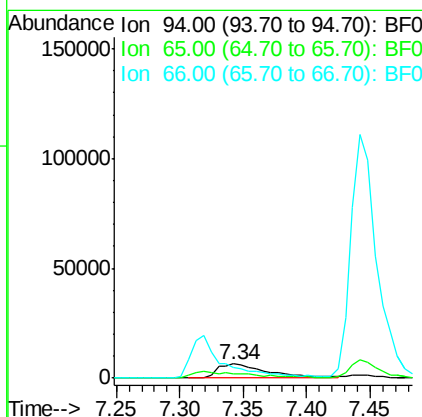
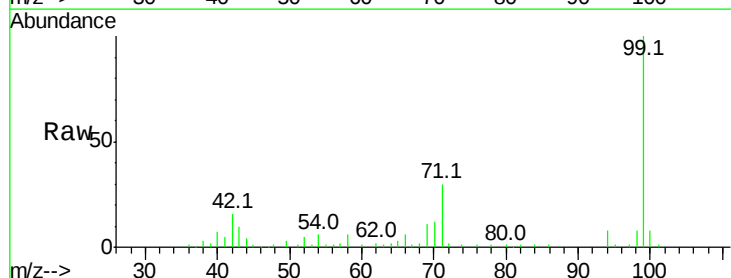
RT: 7.34 min Scan# 919

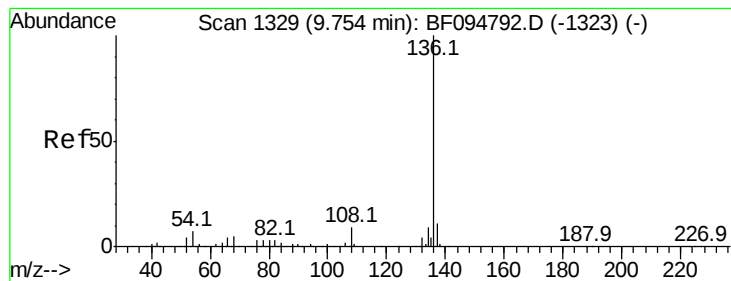
Delta R.T. 0.05 min

Lab File: BF095128.D

Acq: 15 May 2017 16:33

Tgt Ion:	94	Resp:	17930
Ion Ratio	Lower	Upper	
94	100		
65	34.3	9.9	49.9
66	77.4	23.1	63.1#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.80 min Scan# 1336

Delta R.T. 0.04 min

Lab File: BF095128.D

Acq: 15 May 2017 16:33

Instrument :

BNA_F

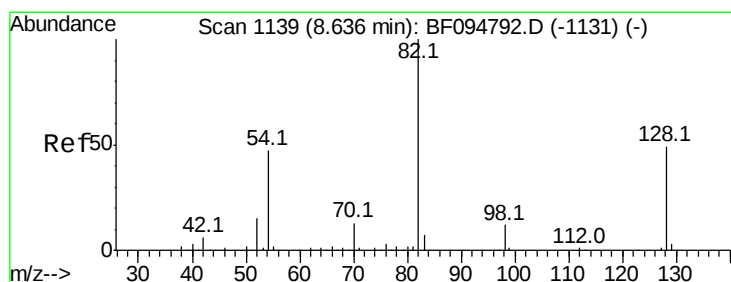
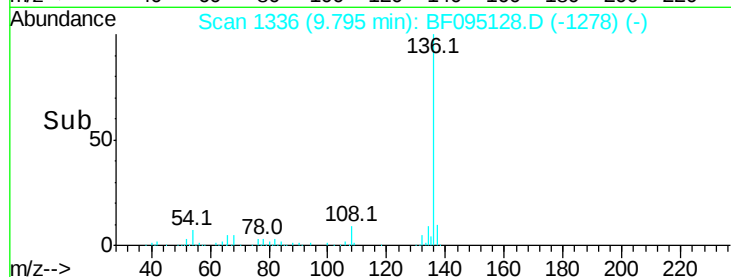
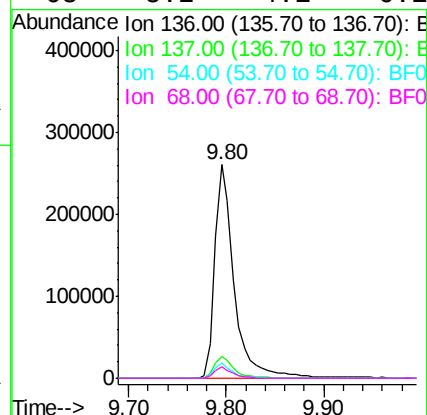
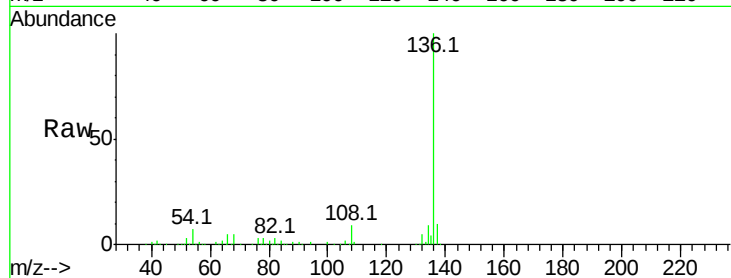
ClientSampleId :

WP.RD-CORNELL-COMP

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.1	8.5	12.7	
54	7.0	4.9	7.3	
68	5.2	4.1	6.1	

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:03 PM



#23

Nitrobenzene-d5

Concen: 81.09 ng

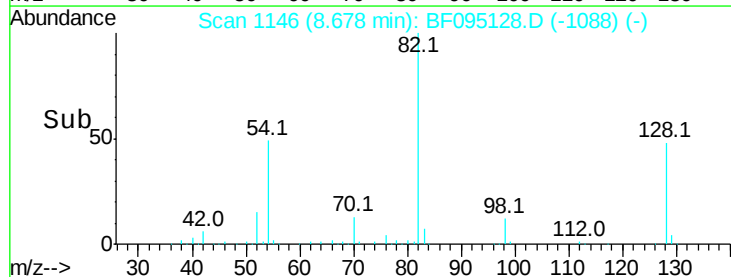
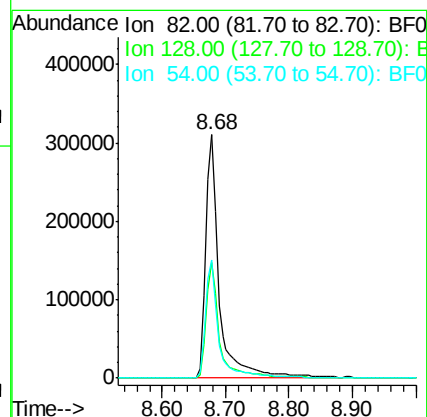
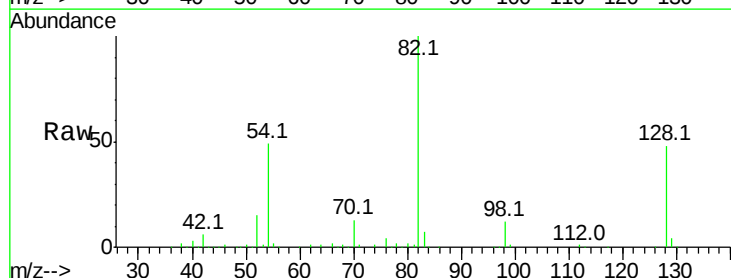
RT: 8.68 min Scan# 1146

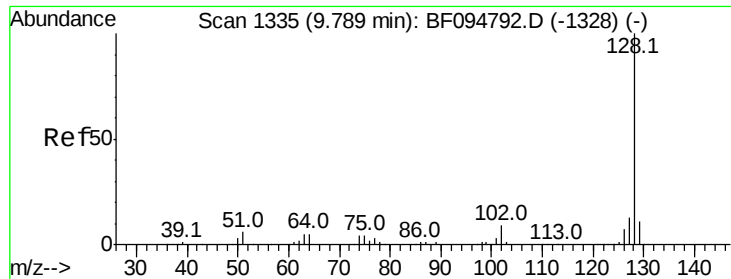
Delta R.T. 0.04 min

Lab File: BF095128.D

Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.7	34.0	51.0	
54	48.6	42.2	63.2	





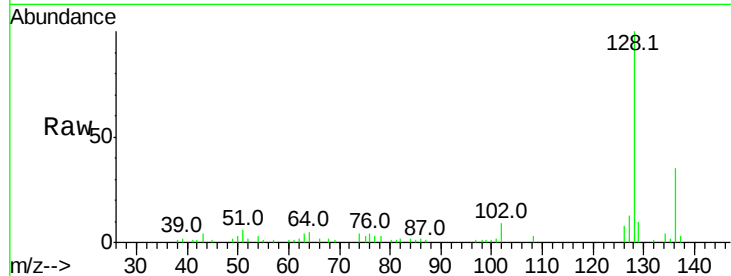
#31
Naphthalene
Concen: 3.60 ng
RT: 9.84 min Scan# 1343
Delta R.T. 0.05 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

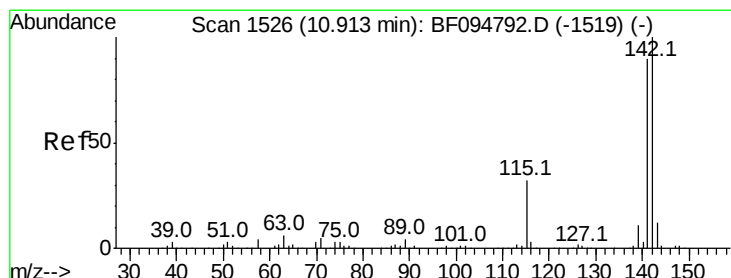
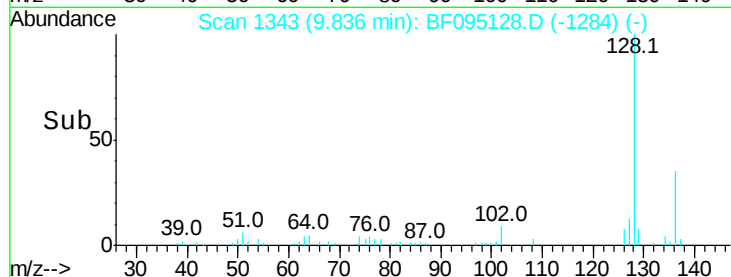
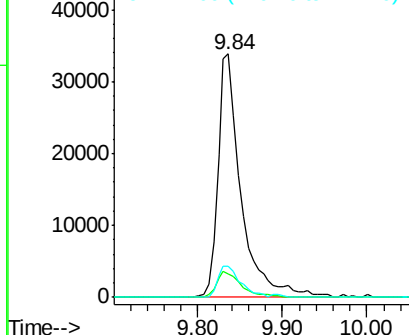
Tot Ion	Ratio	Lower	Upper
128	100		
129	9.5	9.0	13.6
127	12.7	10.8	16.2

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:03 PM

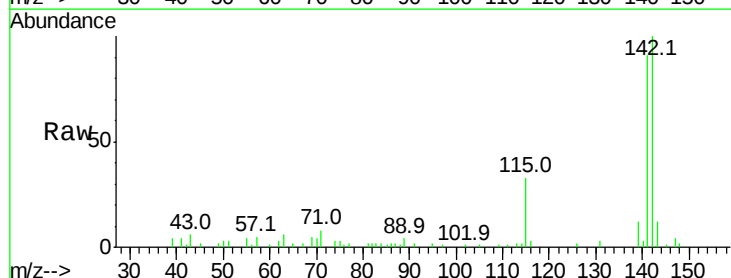


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

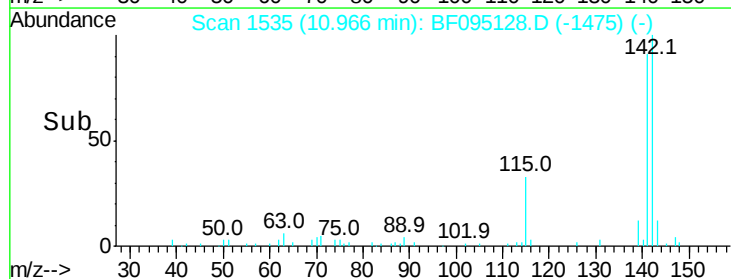
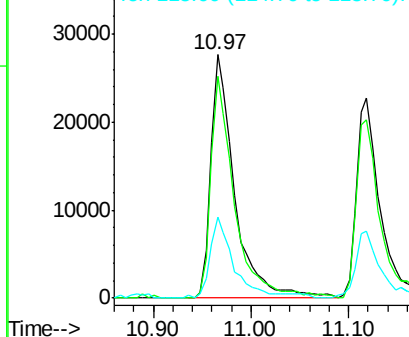


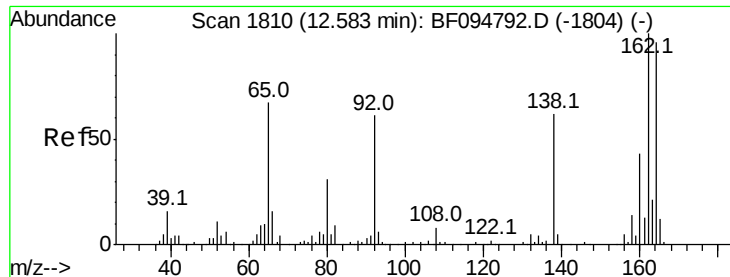
#37
2-Methylnaphthalene
Concen: 3.96 ng
RT: 10.97 min Scan# 1535
Delta R.T. 0.05 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.3	106.9
115	33.3	27.1	40.7



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





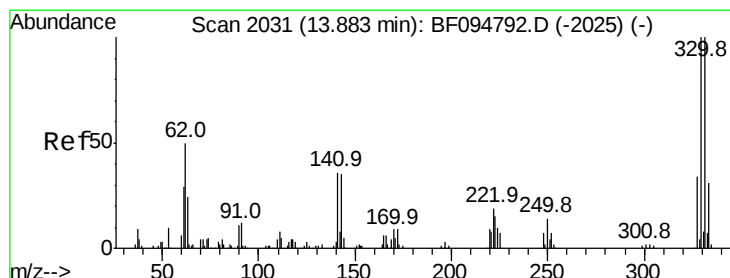
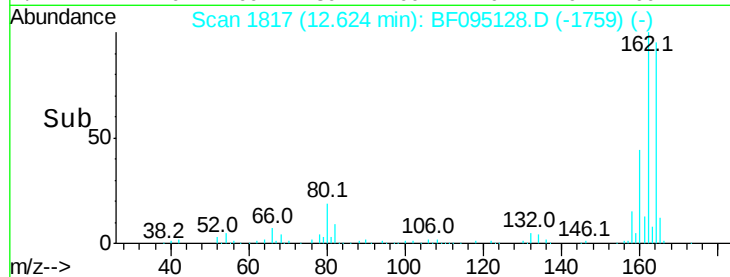
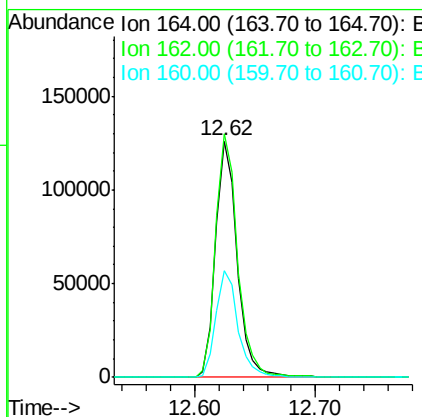
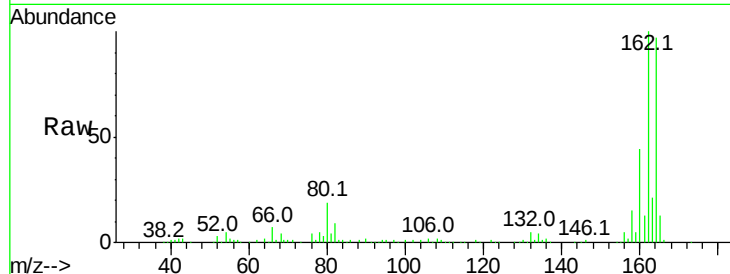
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.62 min Scan# 1817
Delta R.T. 0.04 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

Tot Ion	Ratio	Resp	Lower	Upper
164	100	155538		
162	103.1	82.6	123.8	
160	45.0	36.2	54.2	

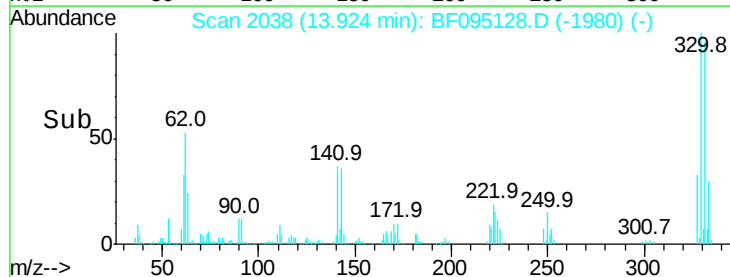
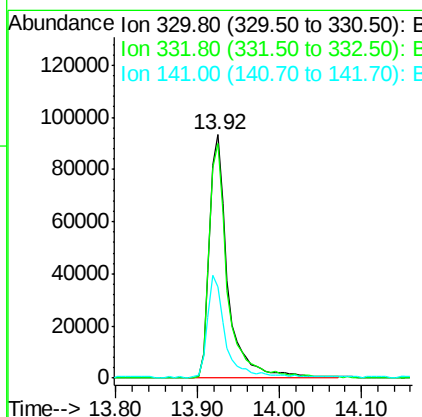
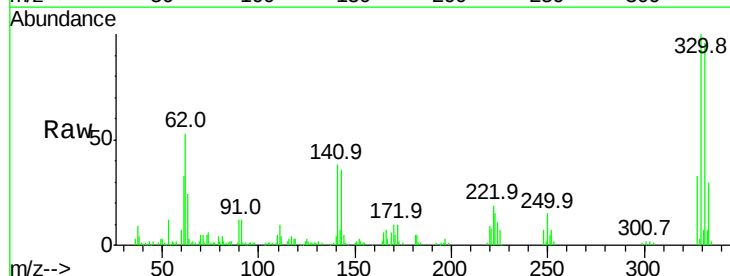
Manual Integrations
APPROVED

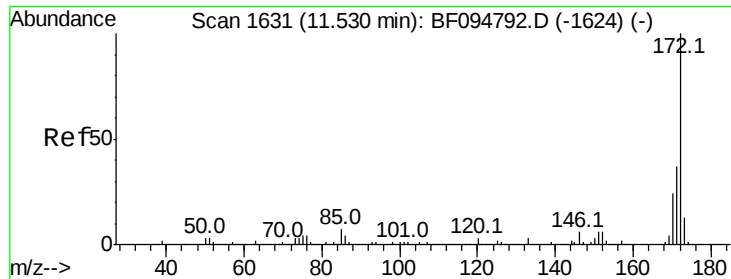
mohammad
5/17/2017 2:20:03 PM



#41
2,4,6-Tribromophenol
Concen: 114.93 ng
RT: 13.92 min Scan# 2038
Delta R.T. 0.04 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	146403		
332	97.0	76.6	115.0	
141	41.9	31.4	47.2	





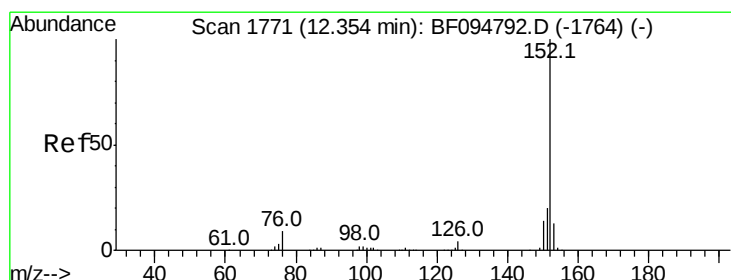
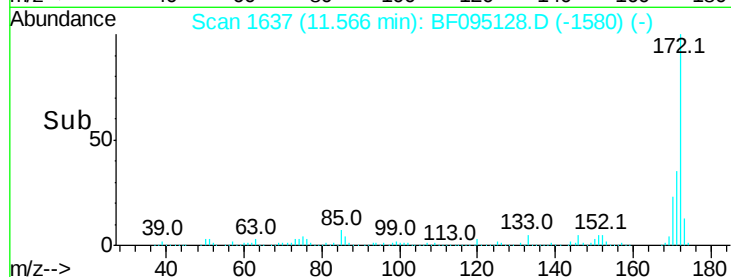
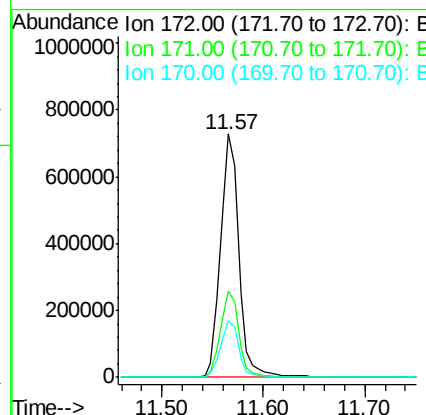
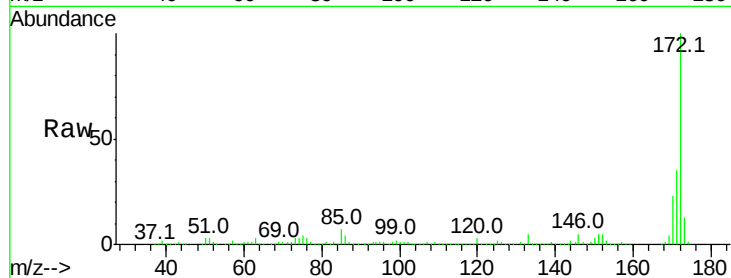
#44
2-Fluorobiphenyl
Concen: 85.40 ng
RT: 11.57 min Scan# 1637
Delta R.T. 0.04 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.5	29.6	44.4	
170	23.3	19.8	29.8	

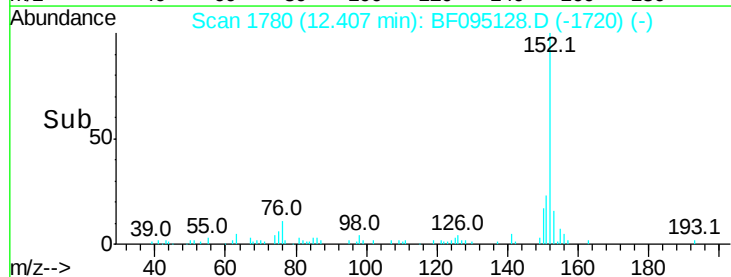
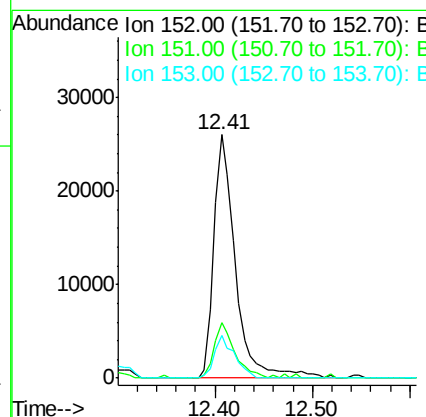
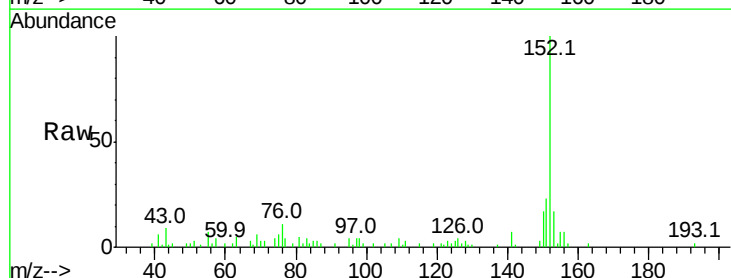
Manual Integrations
APPROVED

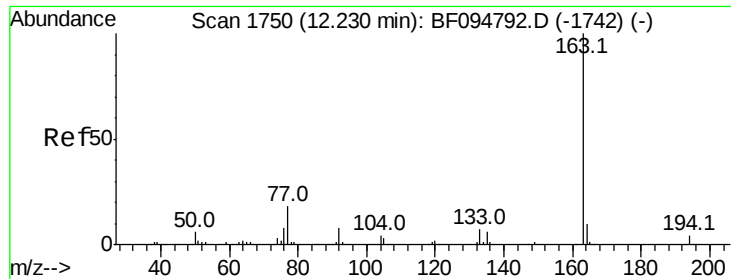
mohammad
5/17/2017 2:20:03 PM



#48
Acenaphthylene
Concen: 2.41 ng
RT: 12.41 min Scan# 1780
Delta R.T. 0.05 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	22.9	16.8	25.2	
153	17.3	10.8	16.2	





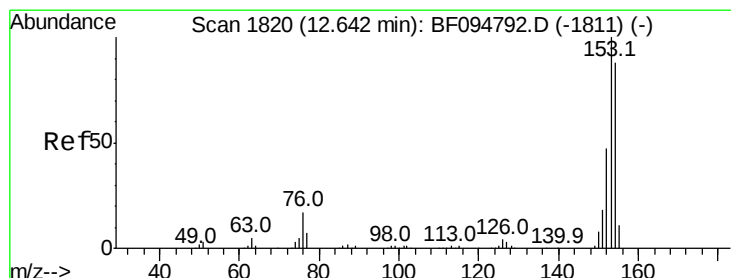
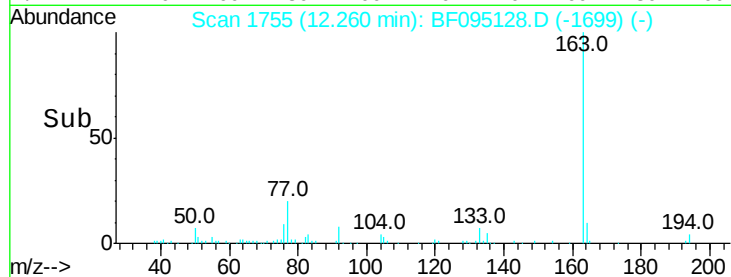
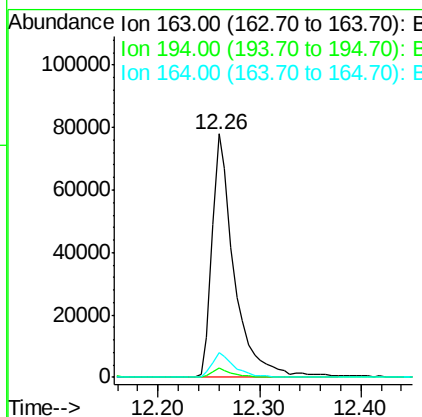
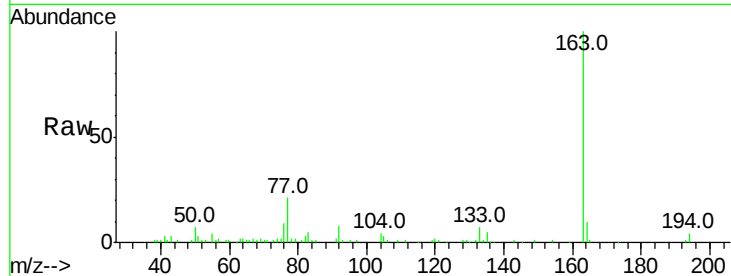
#49
Dimethylphthalate
Concen: 9.30 ng
RT: 12.26 min Scan# 1755
Delta R.T. 0.03 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.7	2.6	4.0	
164	10.1	8.4	12.6	

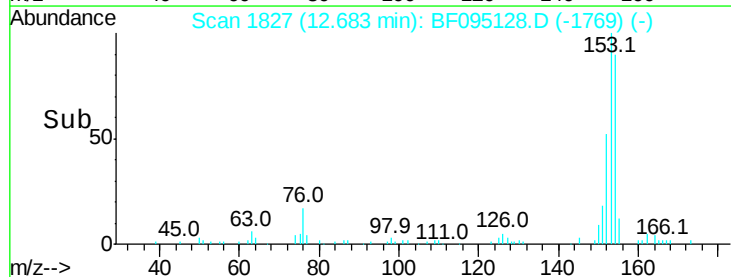
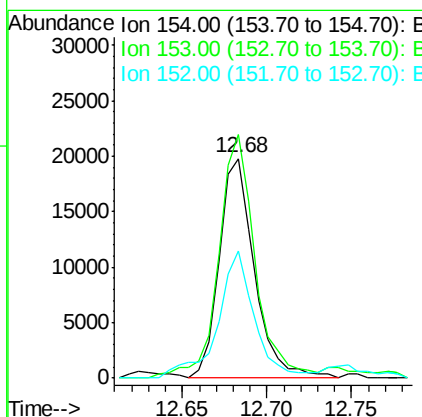
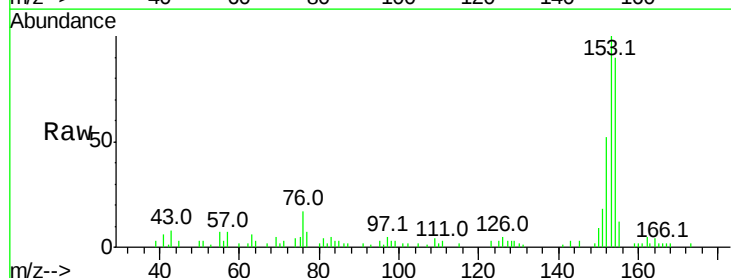
Manual Integrations
APPROVED

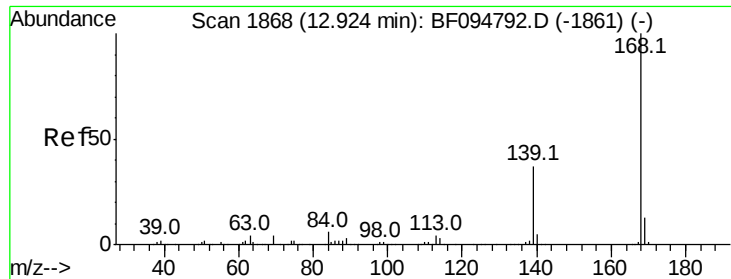
mohammad
5/17/2017 2:20:03 PM



#51
Acenaphthene
Concen: 2.90 ng
RT: 12.68 min Scan# 1827
Delta R.T. 0.04 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	110.9	90.5	135.7	
152	58.2	43.6	65.4	





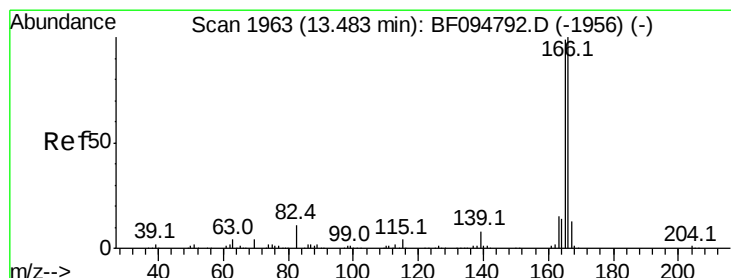
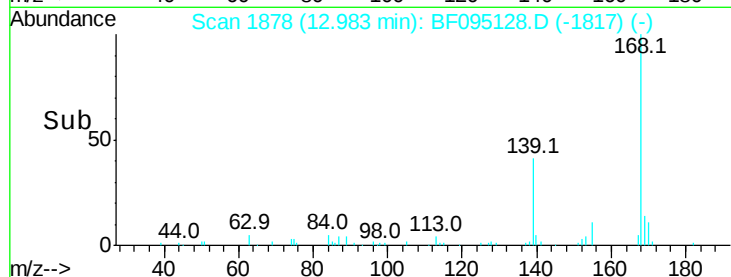
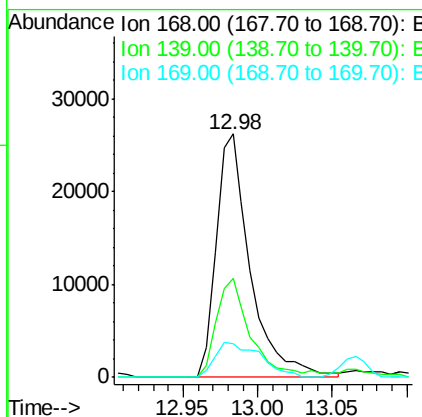
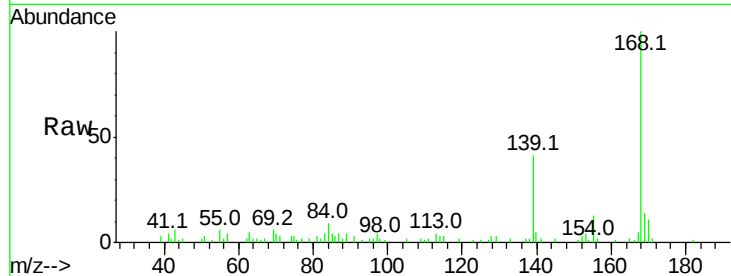
#54
Dibenzenofuran
Concen: 3.05 ng
RT: 12.98 min Scan# 1878
Delta R.T. 0.06 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.8	30.6	45.8
169	14.1	10.8	16.2

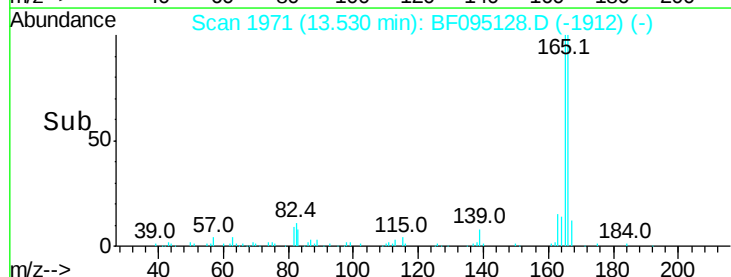
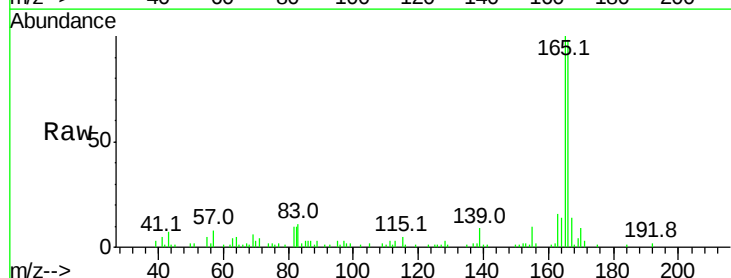
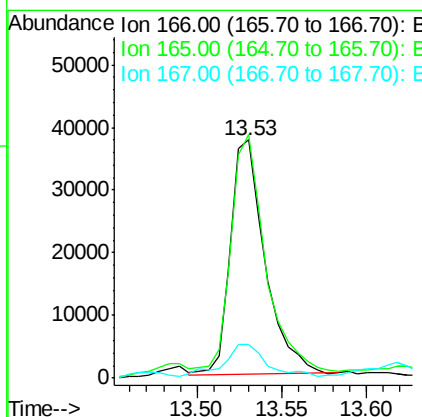
Manual Integrations
APPROVED

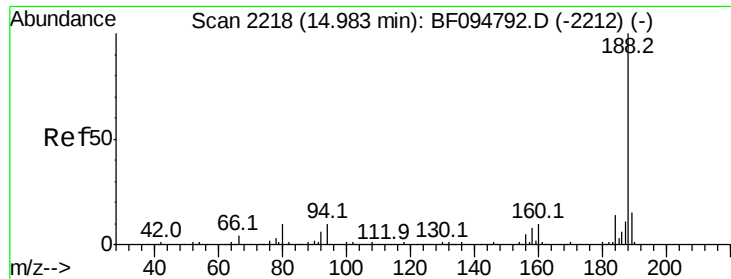
mohammad
5/17/2017 2:20:03 PM



#57
Fluorene
Concen: 4.44 ng
RT: 13.53 min Scan# 1971
Delta R.T. 0.05 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.3	78.8	118.2
167	13.9	10.6	16.0





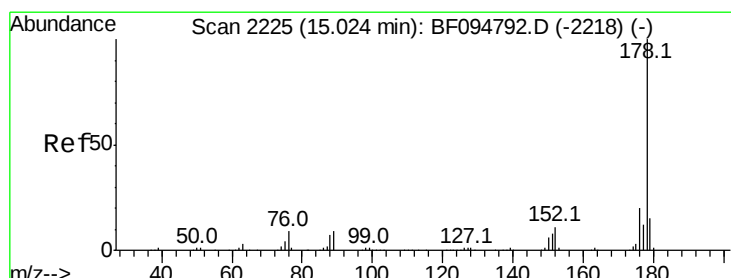
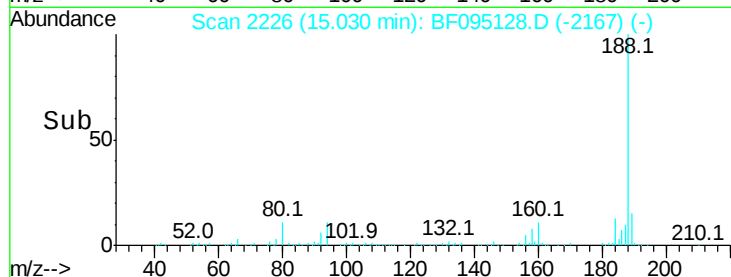
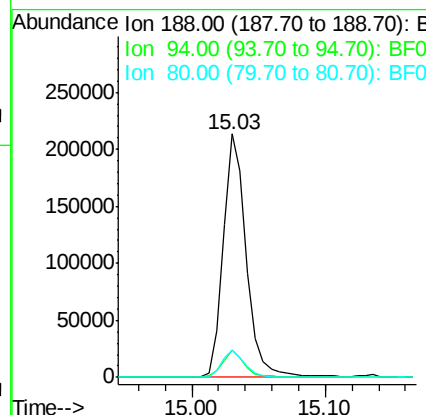
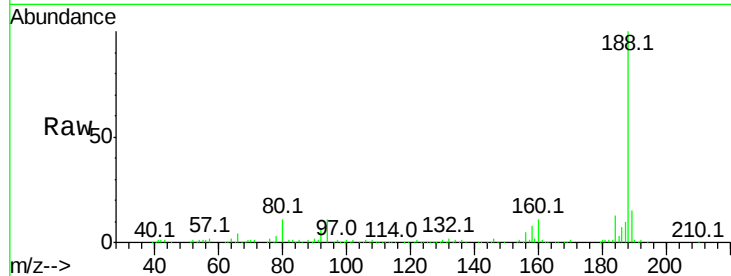
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.03 min Scan# 2226
 Delta R.T. 0.05 min
 Lab File: BF095128.D
 Acq: 15 May 2017 16:33

Instrument :
 BNA_F
 ClientSampleId :
 WP.RD-CORNELL-COMP

Tot Ion	Ratio	Resp	Lower	Upper
188	100	260458		
94	11.0		9.4	14.2
80	11.3		10.2	15.2

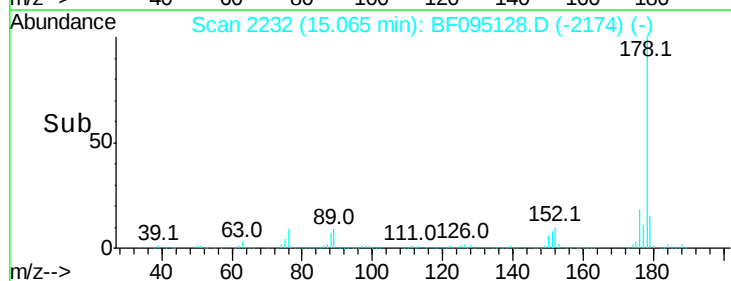
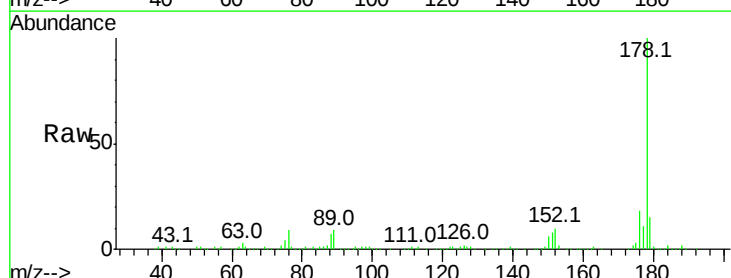
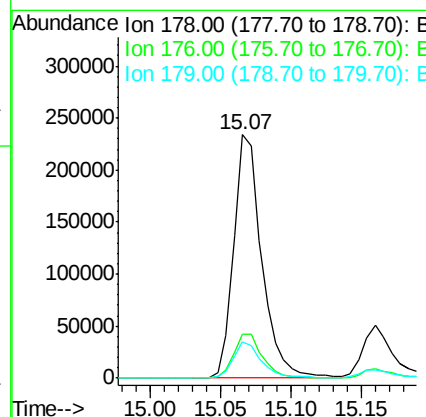
Manual Integrations
 APPROVED

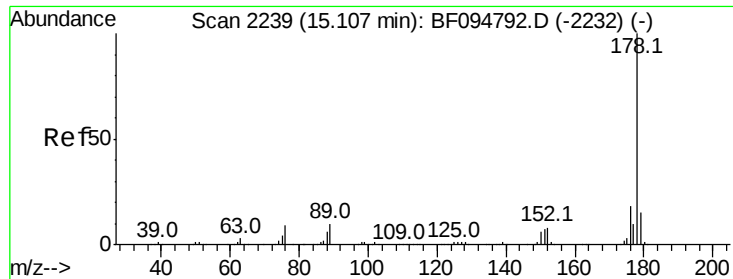
mohammad
 5/17/2017 2:20:03 PM



#70
 Phenanthrene
 Concen: 21.78 ng
 RT: 15.07 min Scan# 2232
 Delta R.T. 0.04 min
 Lab File: BF095128.D
 Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	325963		
176	18.2		16.2	24.4
179	14.9		12.6	19.0





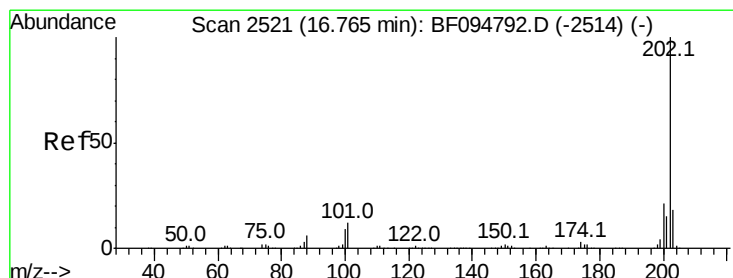
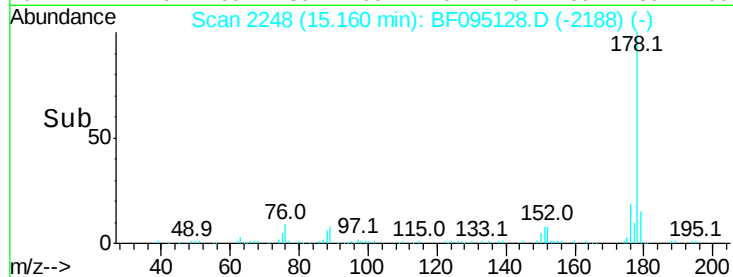
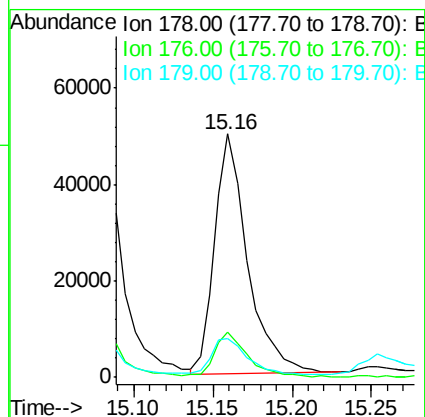
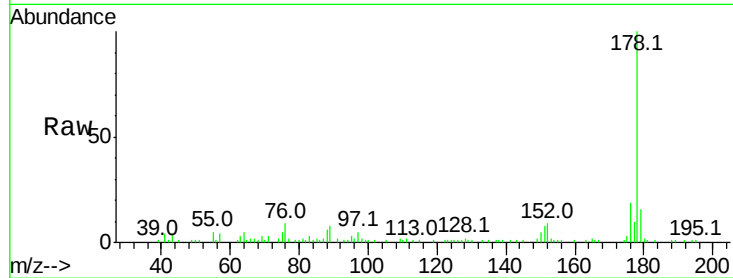
#71
 Anthracene
 Concen: 4.71 ng
 RT: 15.16 min Scan# 2248
 Delta R.T. 0.05 min
 Lab File: BF095128.D
 Acq: 15 May 2017 16:33

Instrument :
 BNA_F
 ClientSampleId :
 WP.RD-CORNELL-COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	16.0	12.7	19.1

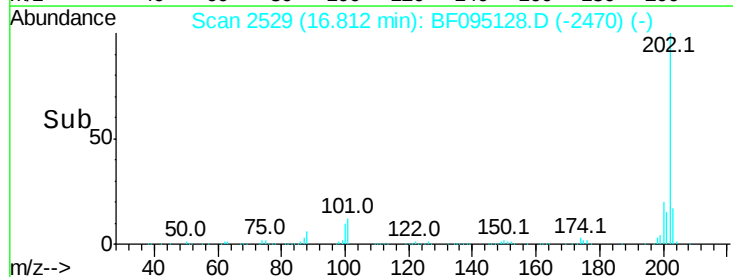
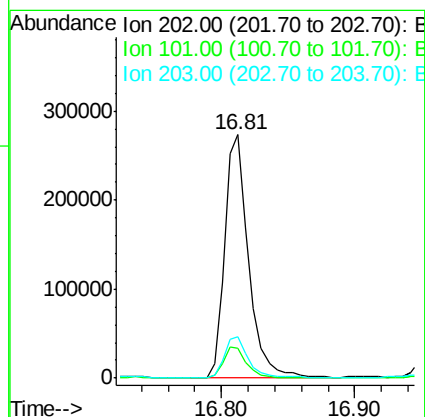
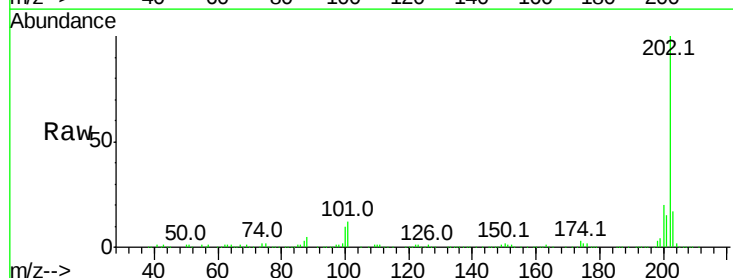
Manual Integrations
 APPROVED

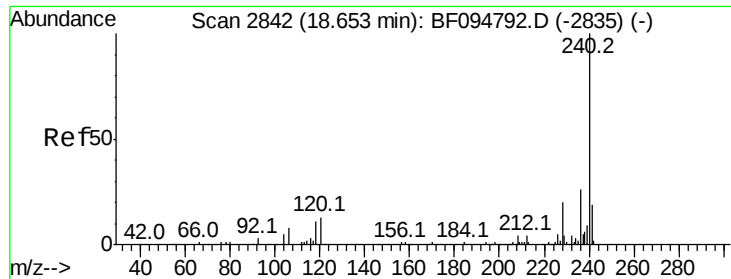
mohammad
 5/17/2017 2:20:03 PM



#74
 Fluoranthene
 Concen: 22.58 ng
 RT: 16.81 min Scan# 2529
 Delta R.T. 0.05 min
 Lab File: BF095128.D
 Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	33.2
203	16.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.70 min Scan# 2850

Delta R.T. 0.05 min

Lab File: BF095128.D

Acq: 15 May 2017 16:33

Instrument :

BNA_F

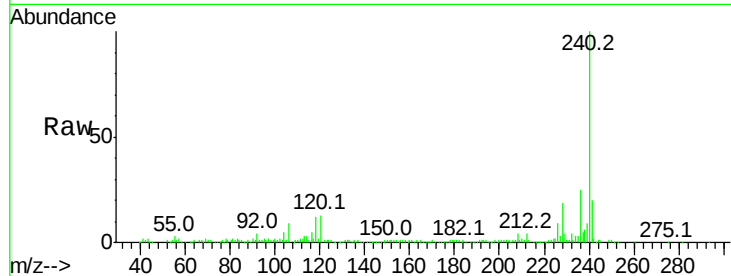
ClientSampleId :

WP.RD-CORNELL-COMP

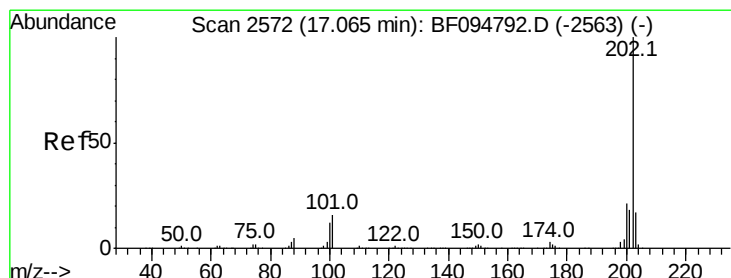
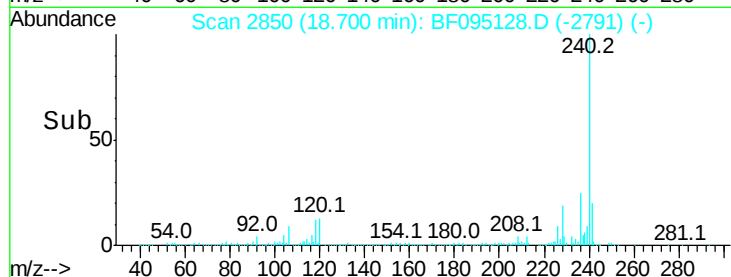
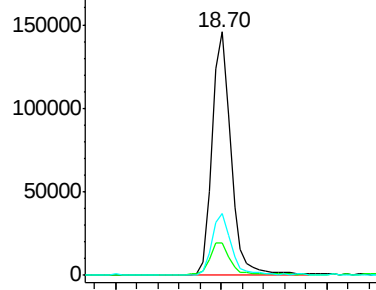
Tot Ion:	240	Resp:	179810
Ion Ratio	Lower	Upper	
240	100		
120	13.3	5.8	8.8#
236	25.5	20.5	30.7

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:03 PM



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: 22.29 ng

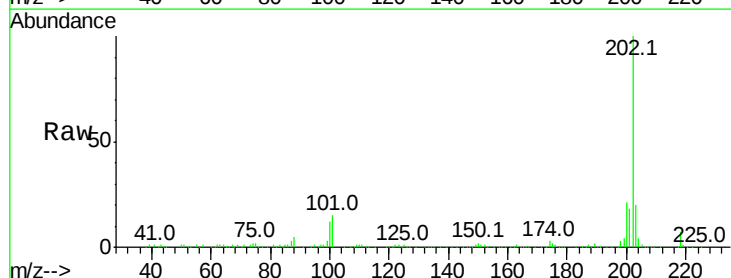
RT: 17.11 min Scan# 2580

Delta R.T. 0.05 min

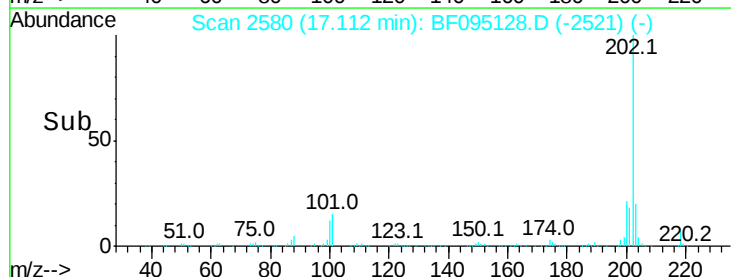
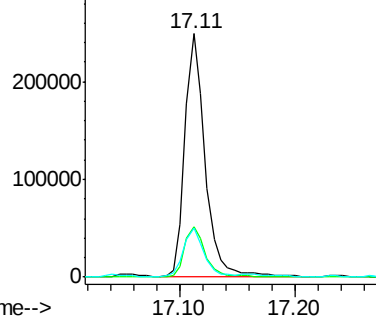
Lab File: BF095128.D

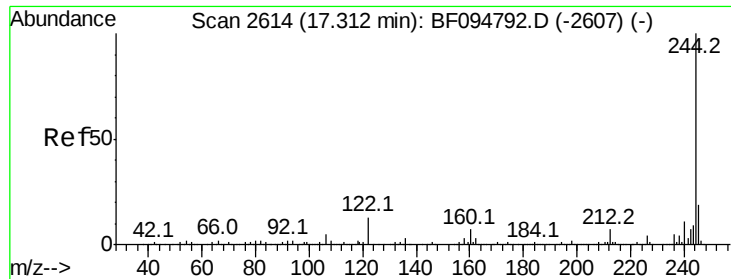
Acq: 15 May 2017 16:33

Tgt Ion:	202	Resp:	299781
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.6	26.4
203	20.0	14.4	21.6



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





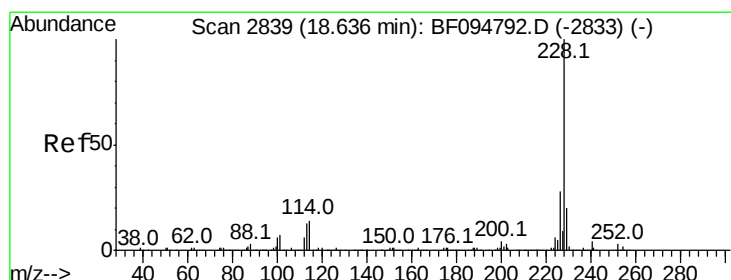
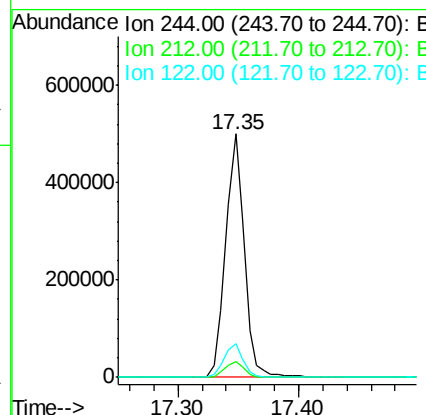
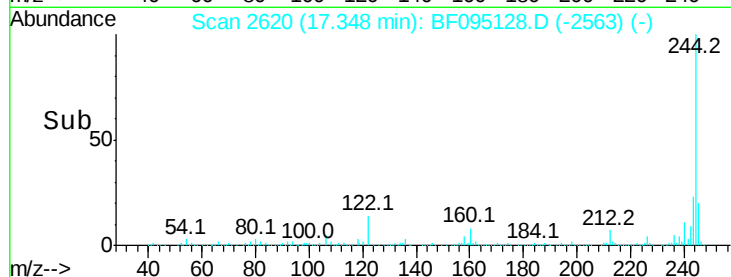
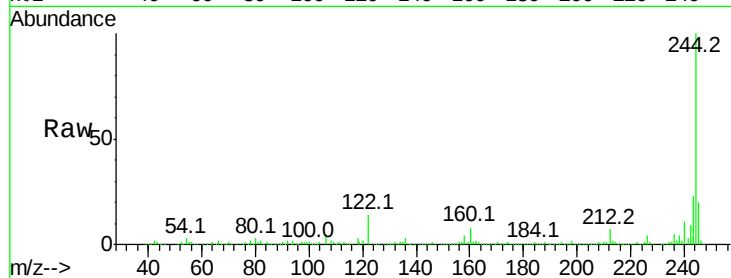
#78
 Terphenyl-d14
 Concen: 65.20 ng
 RT: 17.35 min Scan# 2620
 Delta R.T. 0.04 min
 Lab File: BF095128.D
 Acq: 15 May 2017 16:33

Instrument :
 BNA_F
 ClientSampleId :
 WP.RD-CORNELL-COMP

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.0	9.0
122	14.0	10.3	15.5

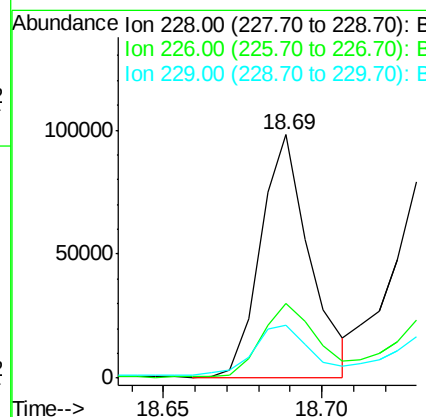
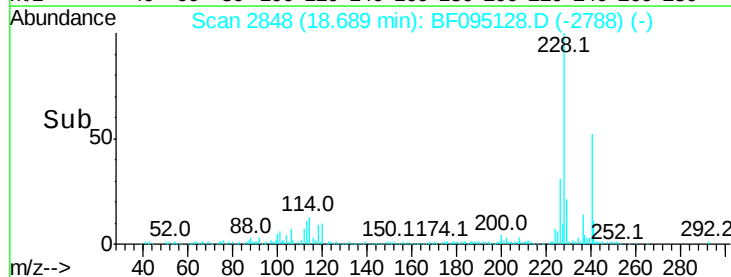
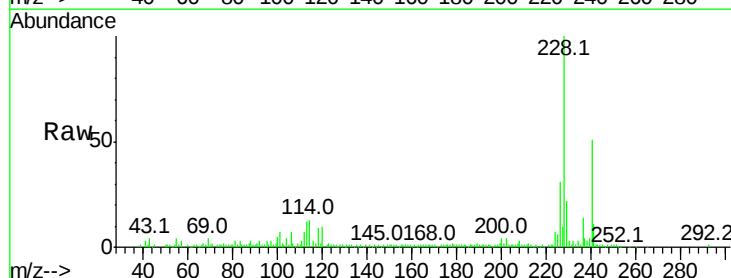
Manual Integrations
 APPROVED

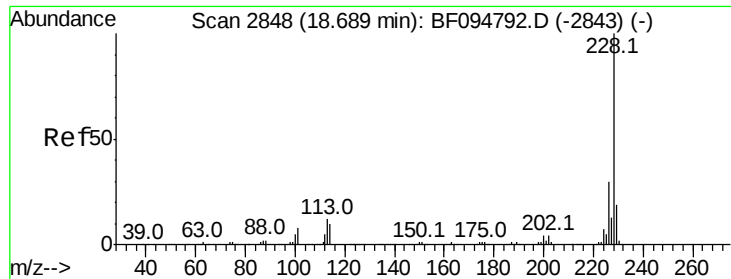
mohammad
 5/17/2017 2:20:03 PM



#80
 Benzo(a)anthracene
 Concen: 10.03 ng
 RT: 18.69 min Scan# 2848
 Delta R.T. 0.05 min
 Lab File: BF095128.D
 Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.6	33.8
229	21.7	16.3	24.5





#82

Chrysene

Concen: 12.99 ng

RT: 18.74 min Scan# 2856

Delta R.T. 0.05 min

Lab File: BF095128.D

Acq: 15 May 2017 16:33

Instrument :

BNA_F

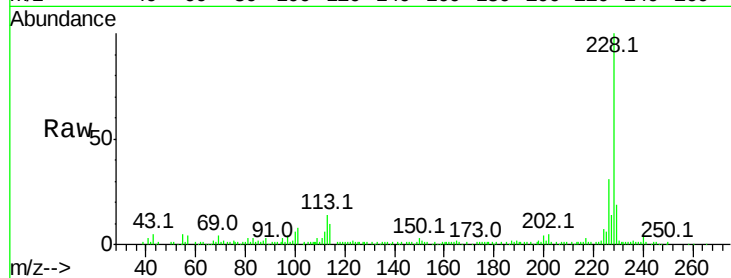
ClientSampleId :

WP.RD-CORNELL-COMP

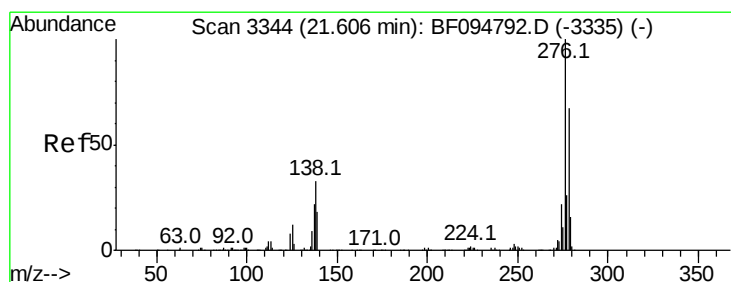
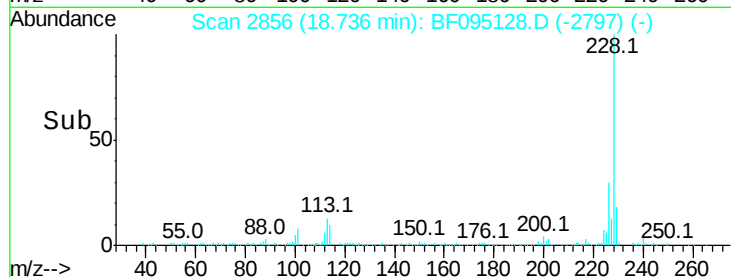
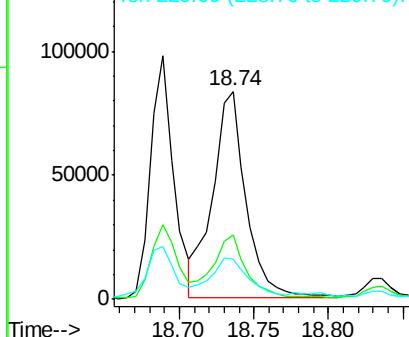
Tot Ion:	228	Resp:	131432
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.9	37.3
229	19.0	15.8	23.6

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:03 PM



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: 6.64 ng

RT: 21.72 min Scan# 3364

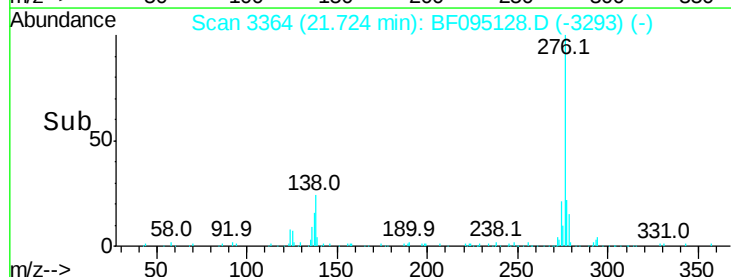
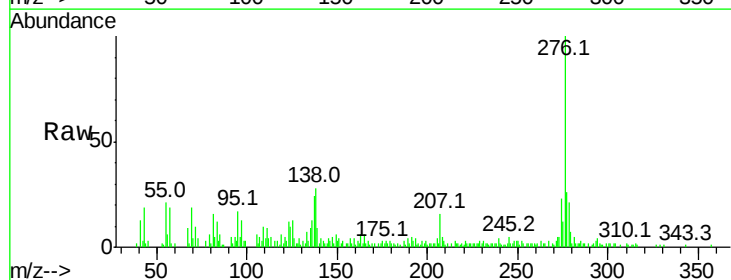
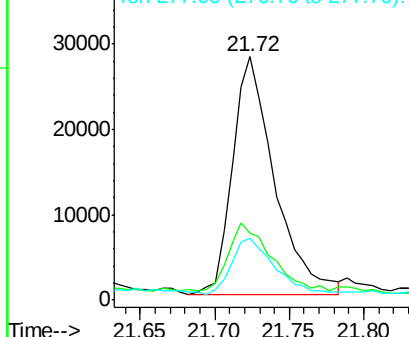
Delta R.T. 0.12 min

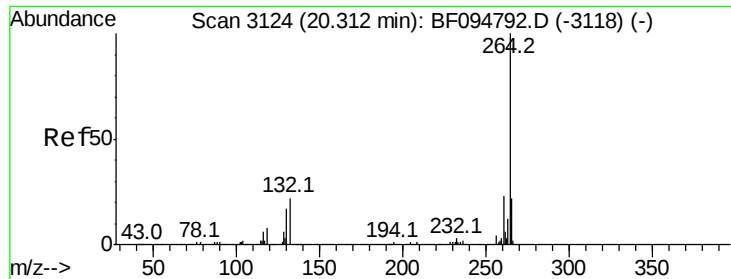
Lab File: BF095128.D

Acq: 15 May 2017 16:33

Tgt Ion:	276	Resp:	54546
Ion Ratio	Lower	Upper	
276	100		
138	28.8	27.8	41.6
277	24.0	20.2	30.4

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





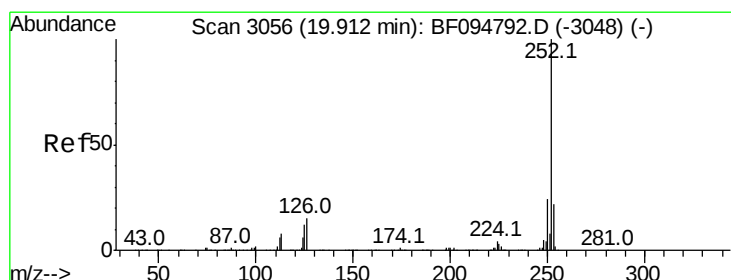
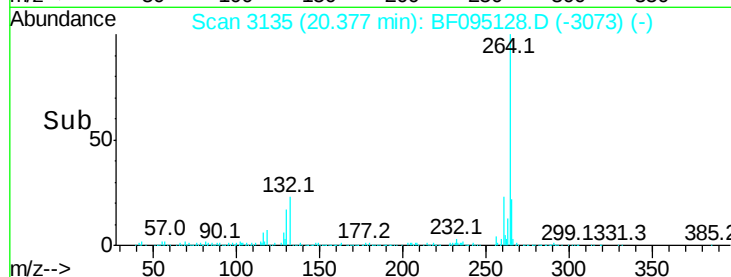
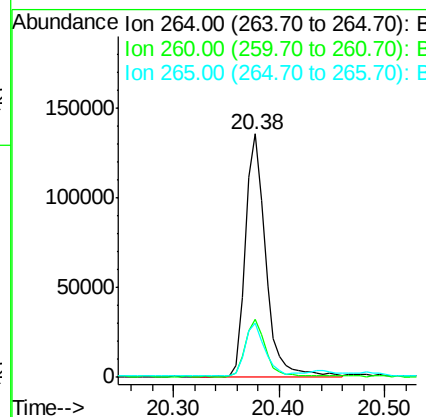
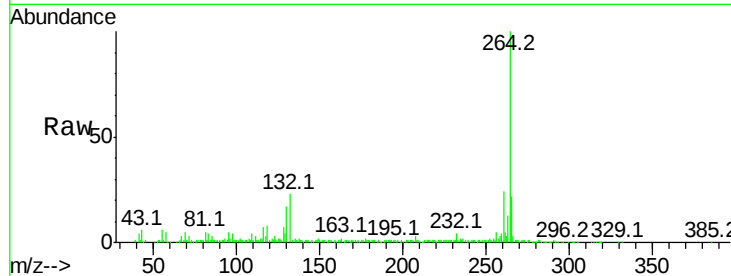
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.38 min Scan# 3135
Delta R.T. 0.06 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.9	19.5	29.3	
265	22.1	17.2	25.8	

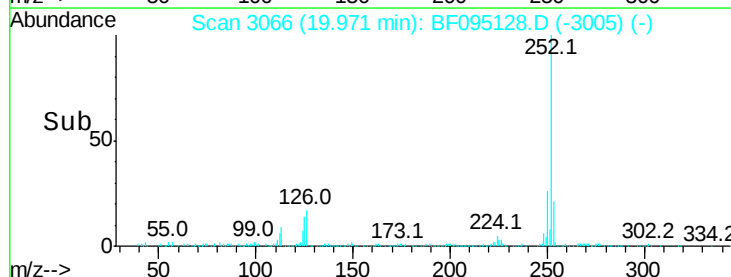
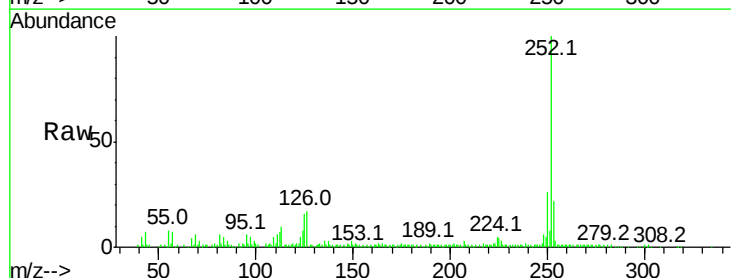
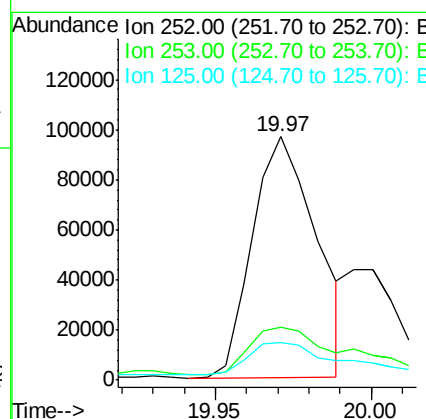
Manual Integrations
APPROVED

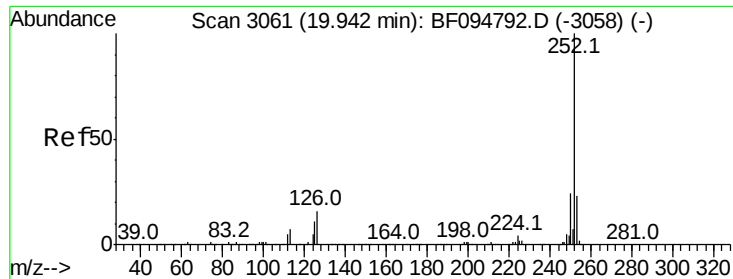
mohammad
5/17/2017 2:20:03 PM



#87
Benzo(b)fluoranthene
Concen: 12.23 ng m
RT: 19.97 min Scan# 3066
Delta R.T. 0.06 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.0	18.1	27.1	
125	15.6	9.8	14.8	





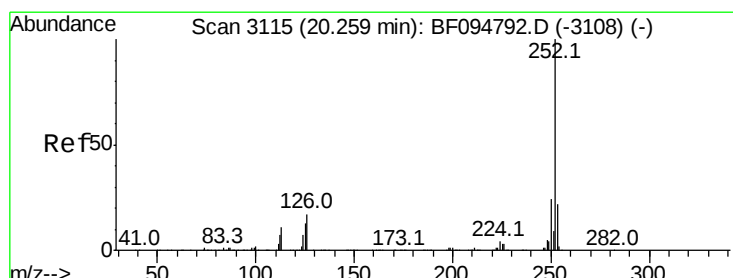
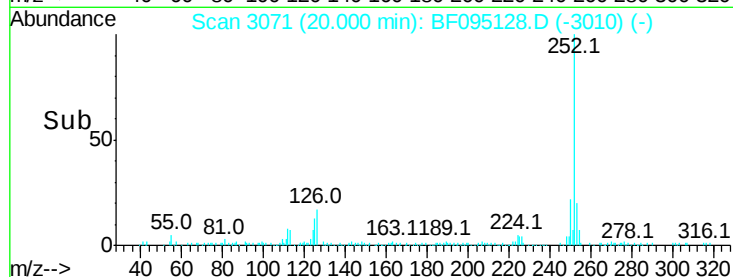
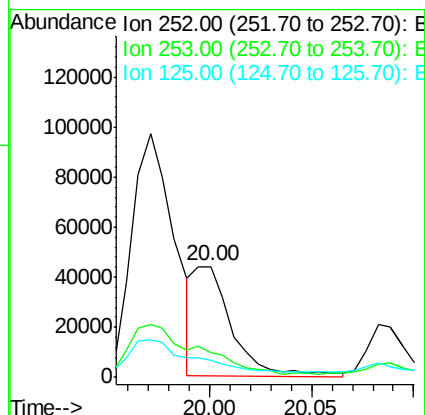
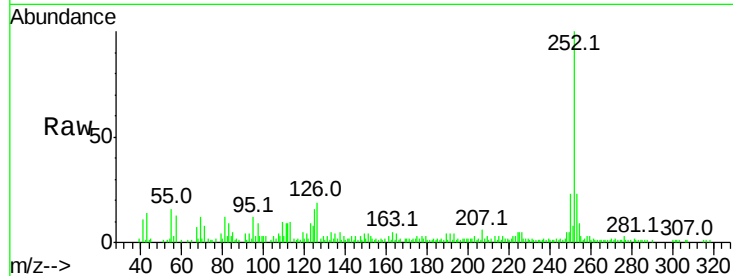
#88
Benzo(k)fluoranthene
Concen: 5.19 ng m
RT: 20.00 min Scan# 3071
Delta R.T. 0.06 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Instrument :
BNA_F
ClientSampleId :
WP.RD-CORNELL-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	15.6	13.1	19.7

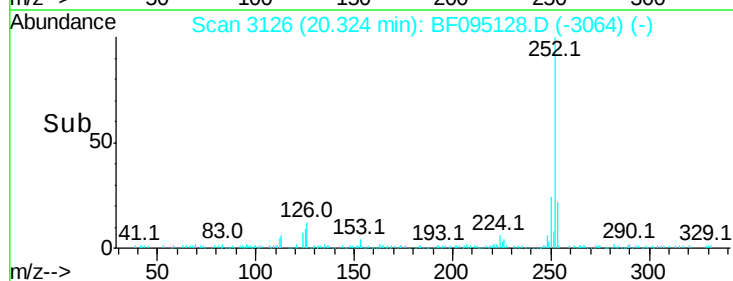
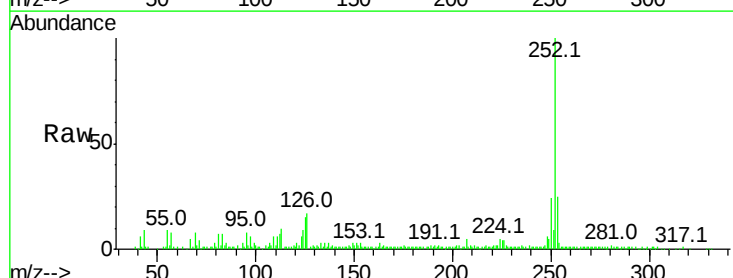
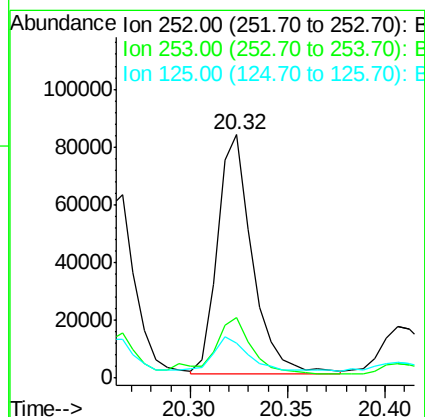
Manual Integrations
APPROVED

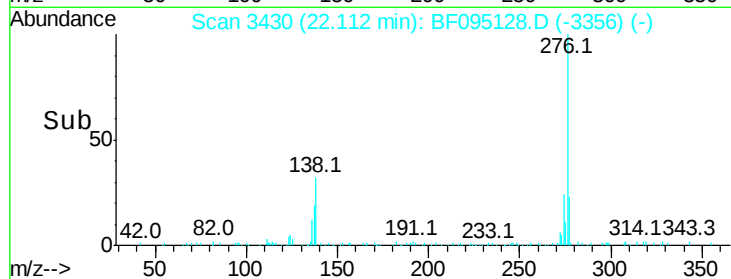
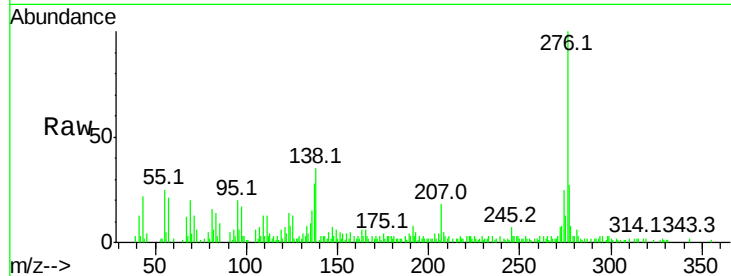
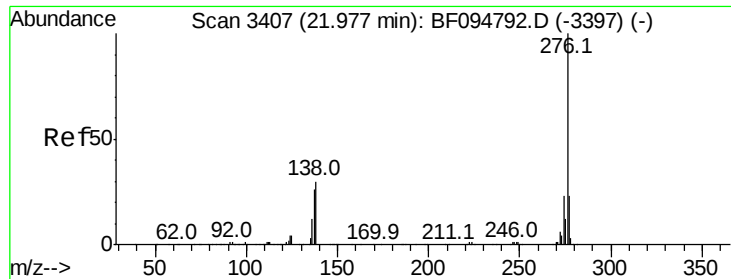
mohammad
5/17/2017 2:20:03 PM



#89
Benzo(a)pyrene
Concen: 9.91 ng
RT: 20.32 min Scan# 3126
Delta R.T. 0.06 min
Lab File: BF095128.D
Acq: 15 May 2017 16:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.5	26.3
125	14.5	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 6.73 ng

RT: 22.11 min Scan# 3430

Delta R.T. 0.14 min

Lab File: BF095128.D

Acq: 15 May 2017 16:33

Instrument :

BNA_F

ClientSampleId :

WP.RD-CORNELL-COMP

Tot Ion: 276 Resp: 56629

Ion Ratio Lower Upper

276 100

277 26.6 18.6 28.0

138 35.3 25.4 38.0

Manual Integrations

APPROVED

mohammad

5/17/2017 2:20:03 PM

