

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081817\
 Data File : BF097859.D
 Acq On : 19 Aug 2017 3:40
 Operator : SJ/JU
 Sample : I4474-03 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BC8B3

Manual Integrations
 APPROVED

mohammad
 8/21/2017 8:19:22 AM

Quant Time: Aug 19 22:09:52 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	104341	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	400508	20.00	ng	-0.01
38) Acenaphthene-d10	9.82	164	174653	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	318514	20.00	ng	0.00
75) Chrysene-d12	13.93	240	260064	20.00	ng	-0.01
86) Perylene-d12	15.36	264	230200	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	105647	15.40	ng	-0.02
7) Phenol-d6	6.39	99	141705	15.20	ng	-0.02
23) Nitrobenzene-d5	7.33	82	87186	11.83	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	21043	13.89	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	132613	11.16	ng	-0.01
78) Terphenyl-d14	12.88	244	106034	8.50	ng	-0.01
Target Compounds						
48) Acenaphthylene	9.67	152	93384	5.053	ng	Qvalue # 74
51) Acenaphthene	9.85	154	235920	20.242	ng	99
57) Fluorene	10.36	166	240539	19.918	ng	# 99
70) Phenanthrene	11.33	178	1020535	60.128	ng	100
71) Anthracene	11.37	178	321282	18.663	ng	99
74) Fluoranthene	12.51	202	423445	23.902	ng	99
77) Pyrene	12.74	202	925450	43.509	ng	100
80) Benzo(a)anthracene	13.92	228	234359m	15.036	ng	
82) Chrysene	13.95	228	229927	14.829	ng	98
85) Indeno(1,2,3-cd)pyrene	16.75	276	90084m	7.898	ng	
87) Benzo(b)fluoranthene	14.95	252	187622m	12.930	ng	
88) Benzo(k)fluoranthene	14.96	252	64206m	4.710	ng	
89) Benzo(a)pyrene	15.30	252	250276	19.483	ng	98
90) Dibenzo(a,h)anthracene	16.76	278	21756m	2.080	ng	
91) Benzo(a,h,i)perylene	17.17	276	125759m	11.525	ng	

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

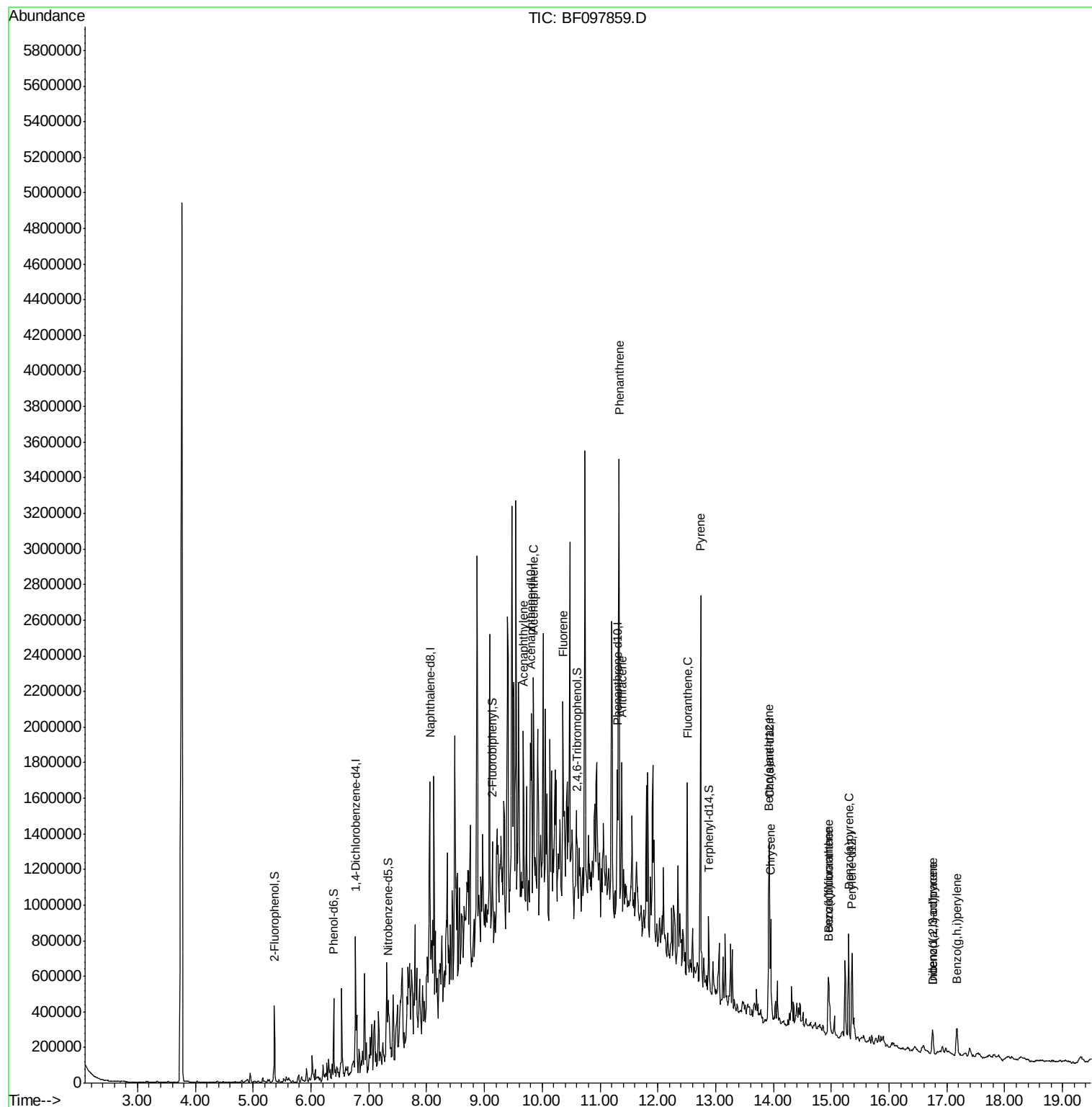
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081817\
Data File : BF097859.D
Acq On : 19 Aug 2017 3:40
Operator : SJ/JU
Sample : I4474-03 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

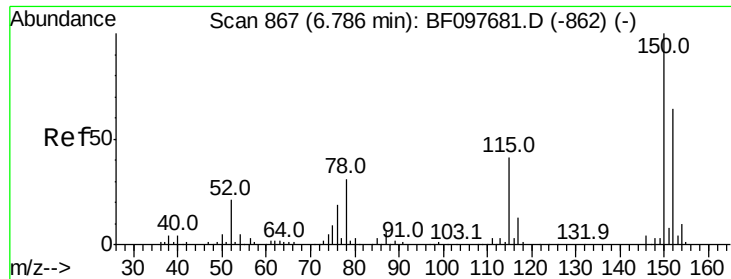
Instrument :
BNA_F
ClientSampleId :
BC8B3

Manual Integrations
APPROVED

mohammad
8/21/2017 8:19:22 AM

Quant Time: Aug 19 22:09:52 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 15 13:25:08 2017
Response via : Initial Calibration





#1

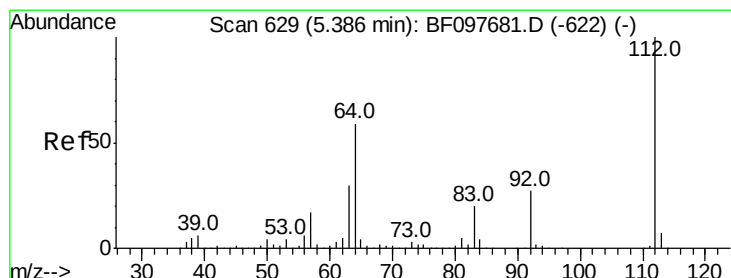
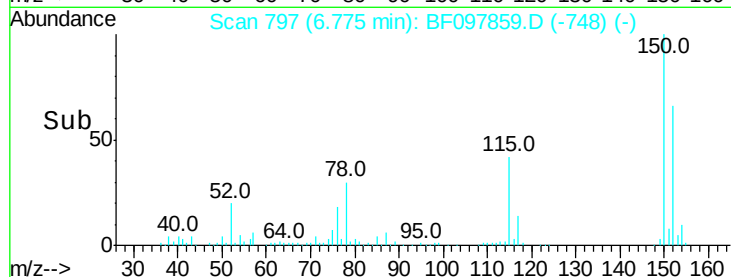
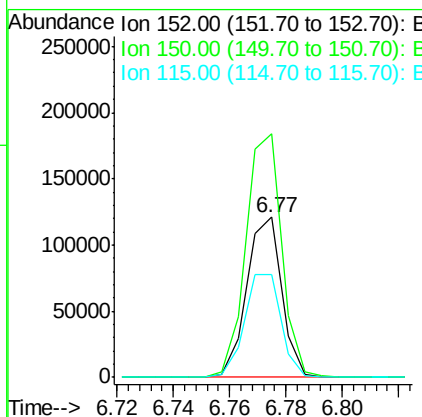
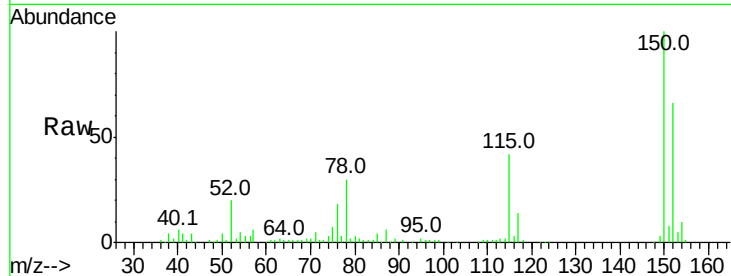
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Instrument :
BNA_F
ClientSampled :
BC8B3

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.3	126.2	189.2
115	64.3	52.2	78.2

Manual Integrations
APPROVED

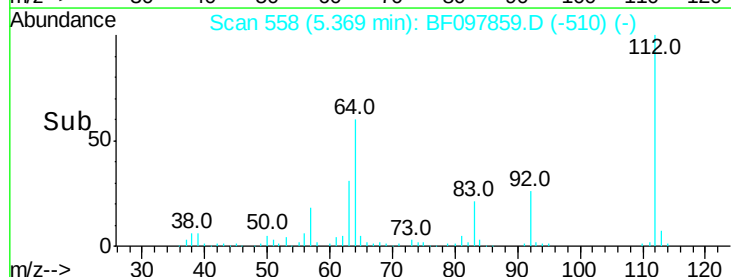
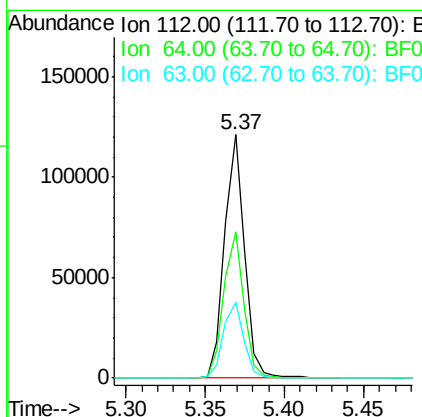
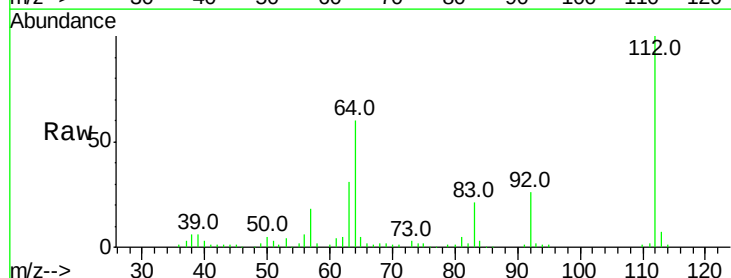
mohammad
8/21/2017 8:19:22 AM

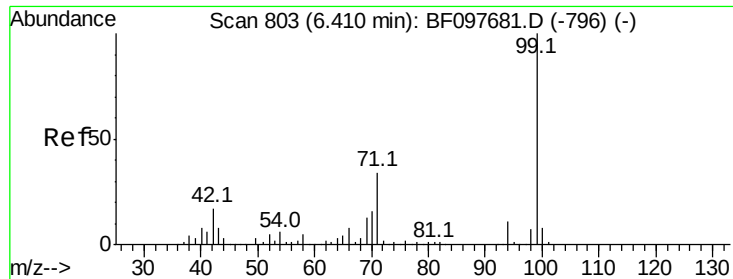


#5

2-Fluorophenol
Concen: 15.401 ng
RT: 5.37 min Scan# 558
Delta R.T. -0.02 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.3	46.0	69.0
63	31.2	23.4	35.0





#7

Phenol-d6

Concen: 15.204 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Instrument :

BNA_F

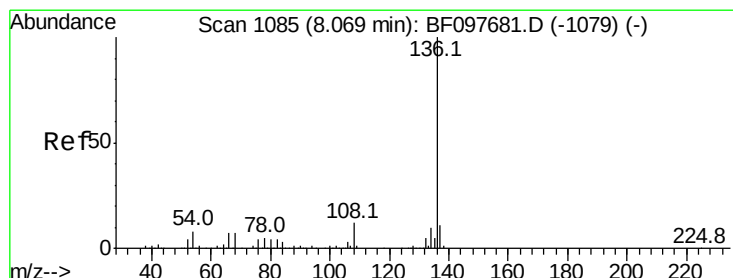
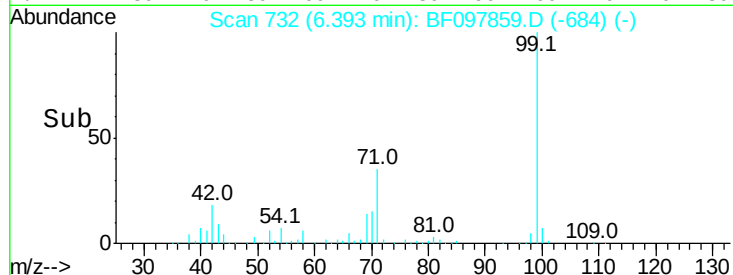
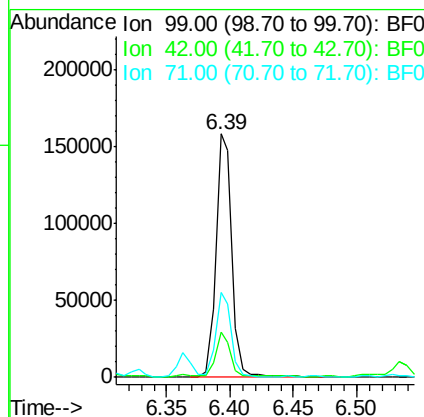
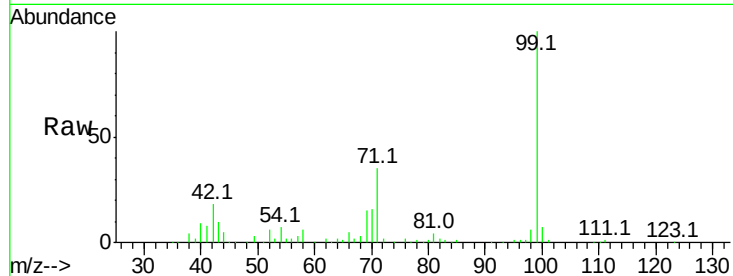
ClientSampleId :

BC8B3

Tot Ion:	99	Resp:	141705
Ion Ratio	Lower	Upper	
99	100		
42	18.5	13.5	20.3
71	34.9	24.5	36.7

Manual Integrations
APPROVED

mohammad
8/21/2017 8:19:22 AM



#21

Naphthalene-d8

Concen: 20.000 ng

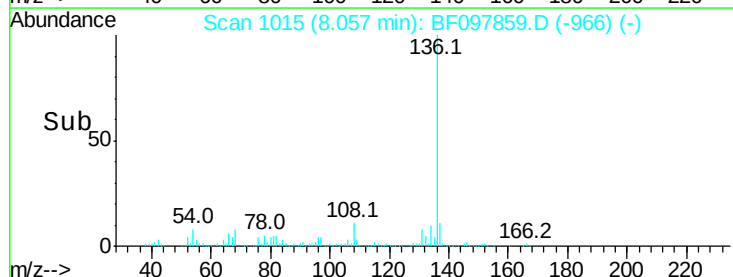
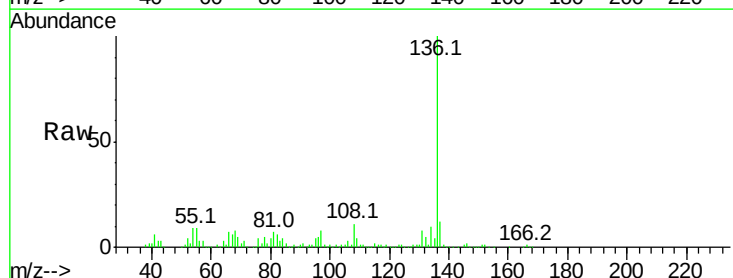
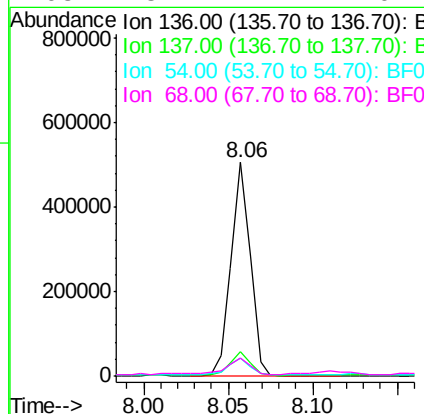
RT: 8.06 min Scan# 1015

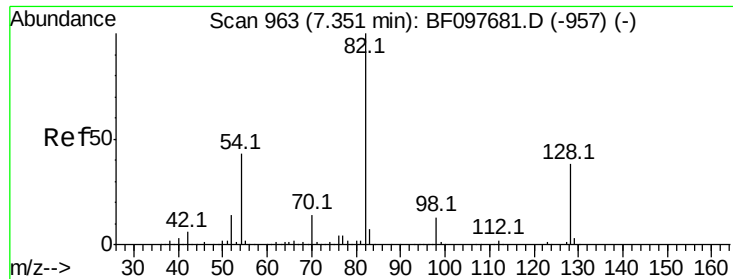
Delta R.T. -0.01 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Tgt Ion:	136	Resp:	400508
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.5	12.7
54	8.6	4.9	7.3#
68	8.4	4.1	6.1#





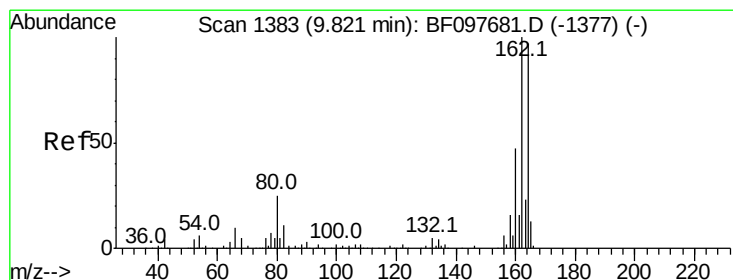
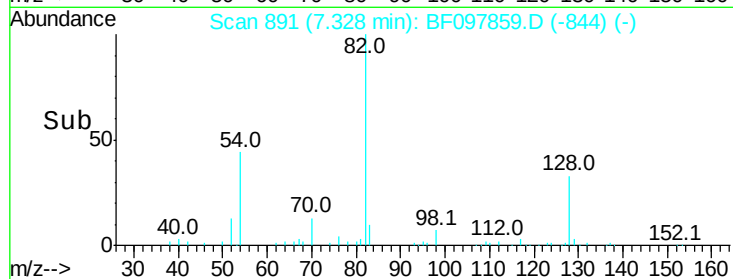
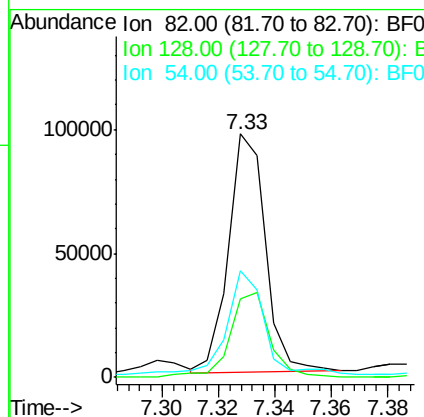
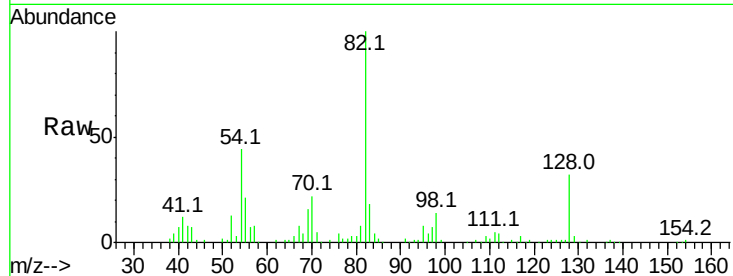
#23
Nitrobenzene-d5
Concen: 11.826 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.02 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Instrument :
BNA_F
ClientSampleId :
BC8B3

Tot Ion	Ratio	Lower	Upper
82	100		
128	32.0	34.0	51.0#
54	43.9	42.2	63.2

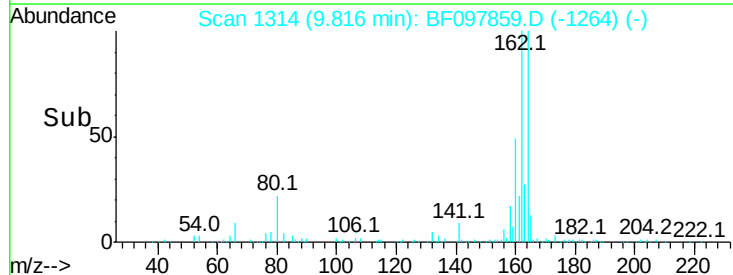
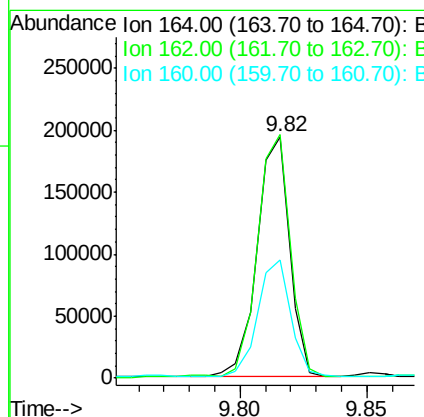
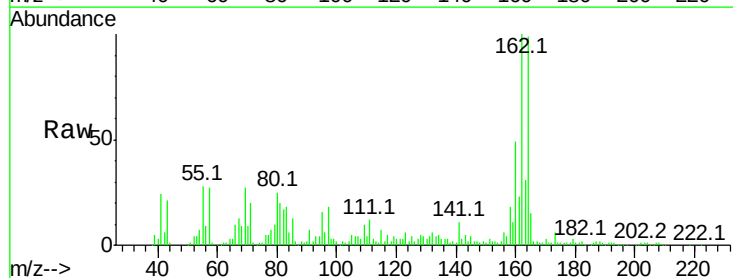
Manual Integrations
APPROVED

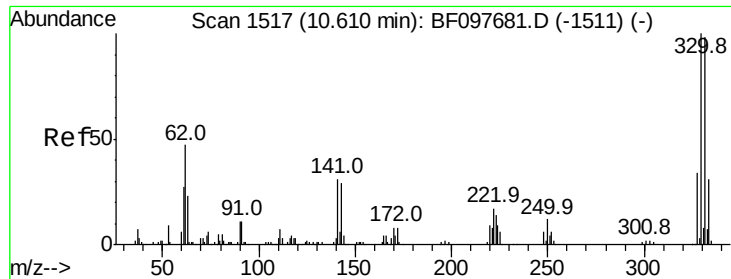
mohammad
8/21/2017 8:19:22 AM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.6	123.8
160	49.1	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 13.886 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.01 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Instrument :

BNA_F

ClientSampled :

BC8B3

Tot Ion:330 Resp: 21043
Ion Ratio Lower Upper

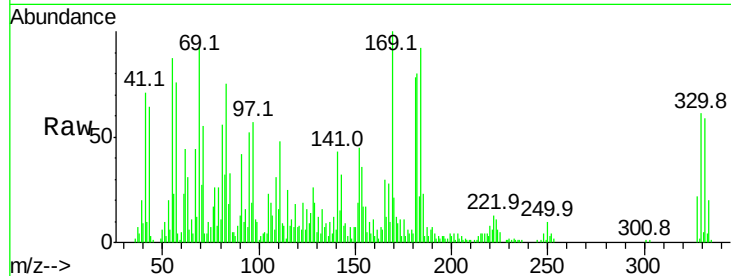
330 100

332 95.7 76.6 115.0

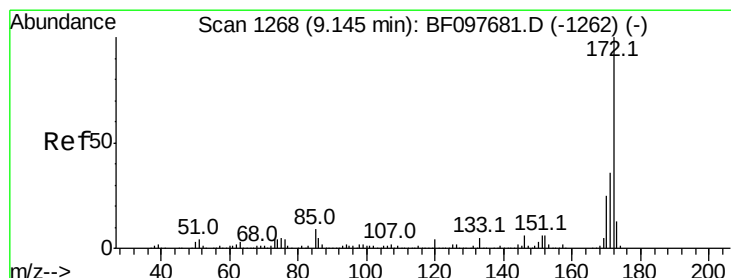
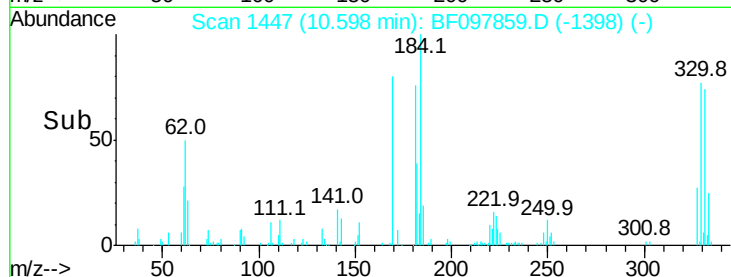
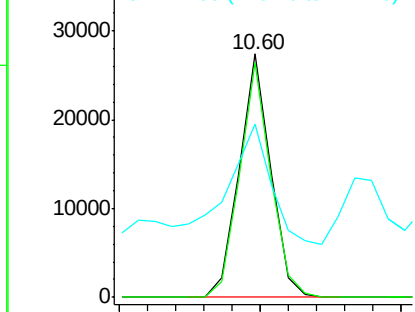
141 68.6 31.4 47.2#

Manual Integrations
APPROVED

mohammad
8/21/2017 8:19:22 AM



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: 11.156 ng

RT: 9.13 min Scan# 1198

Delta R.T. -0.01 min

Lab File: BF097859.D

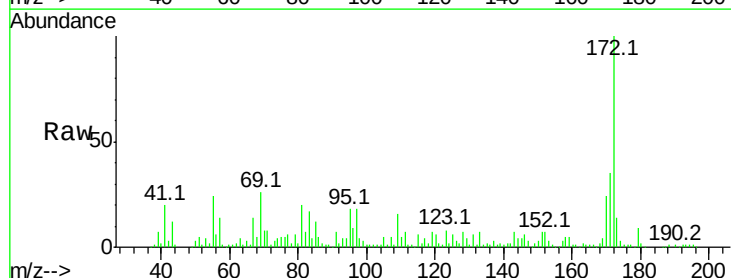
Acq: 19 Aug 2017 3:40

Tgt Ion:172 Resp: 132613
Ion Ratio Lower Upper

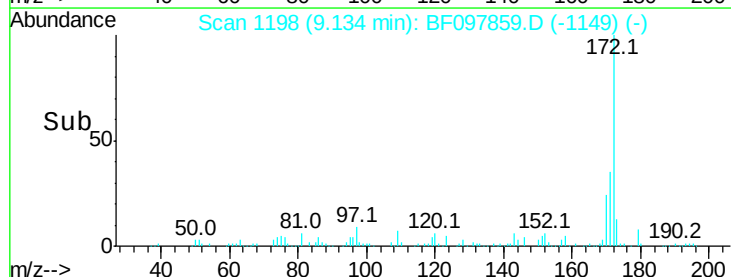
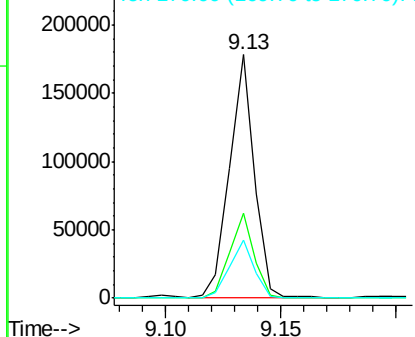
172 100

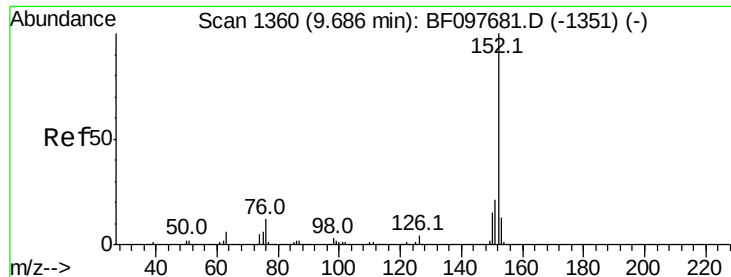
171 34.6 29.6 44.4

170 23.8 19.8 29.8



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





#48

Acenaphthylene

Concen: 5.053 ng

RT: 9.67 min Scan# 1290

Delta R.T. -0.01 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Instrument :

BNA_F

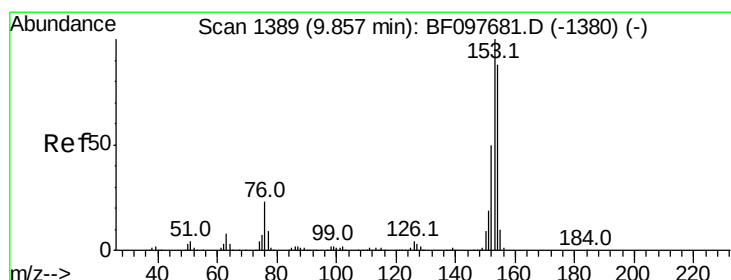
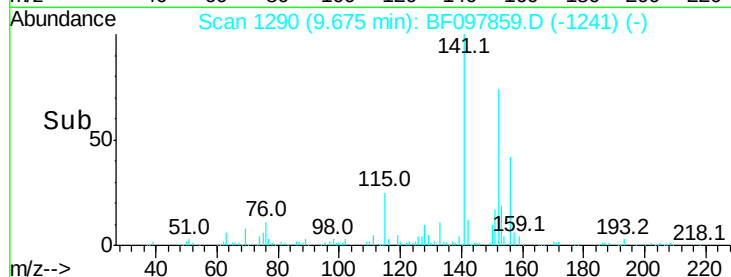
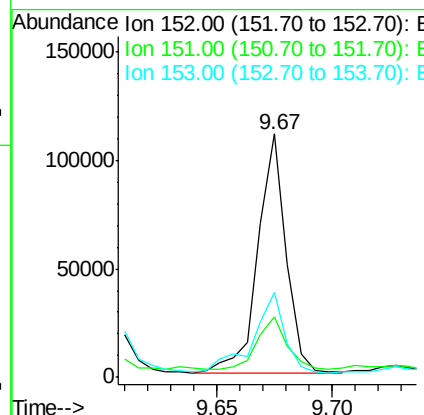
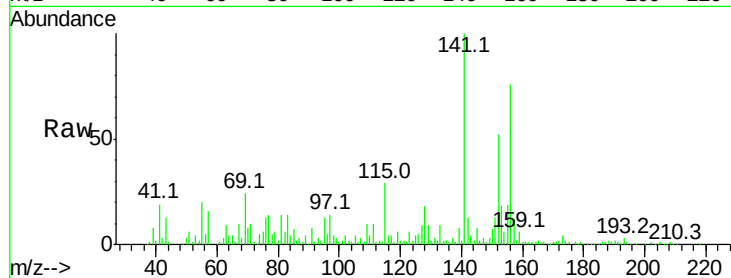
ClientSampled :

BC8B3

Tot Ion:	152	Resp:	93384
Ion Ratio	Lower	Upper	
152	100		
151	24.9	16.8	25.2
153	35.1	10.8	16.2#

Manual Integrations
APPROVED

mohammad
8/21/2017 8:19:22 AM



#51

Acenaphthene

Concen: 20.242 ng

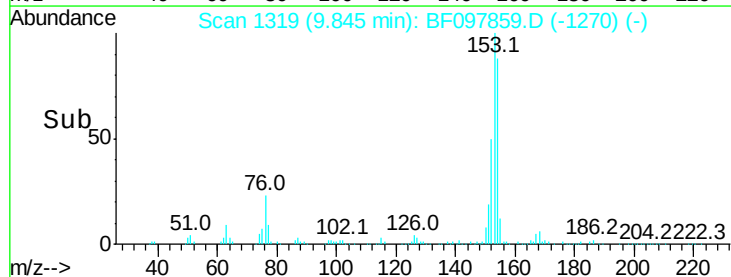
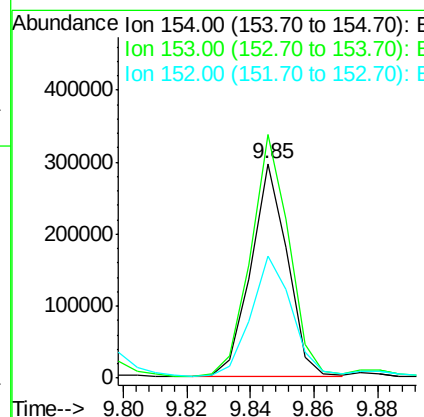
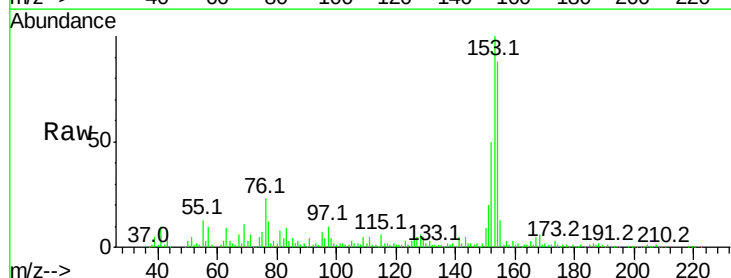
RT: 9.85 min Scan# 1319

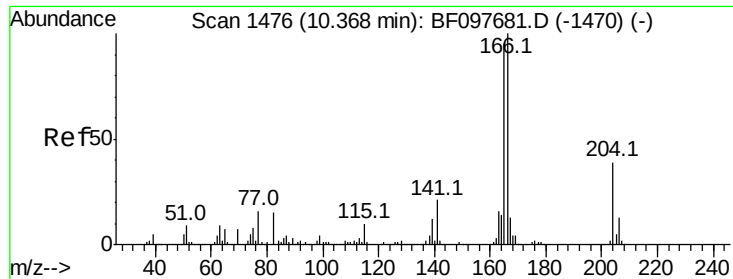
Delta R.T. -0.01 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Tgt Ion:	154	Resp:	235920
Ion Ratio	Lower	Upper	
154	100		
153	113.5	90.5	135.7
152	56.9	43.6	65.4





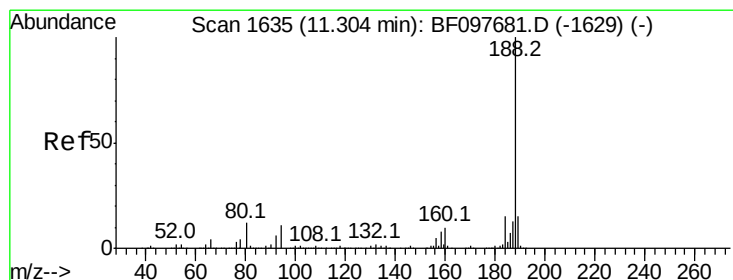
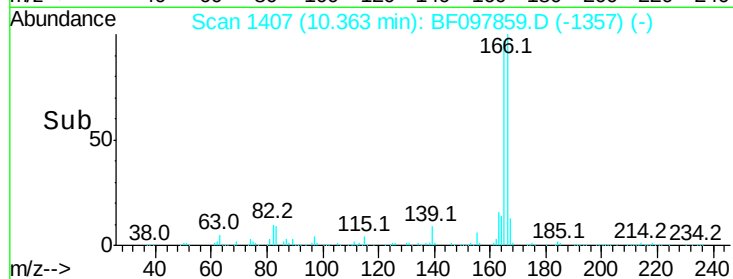
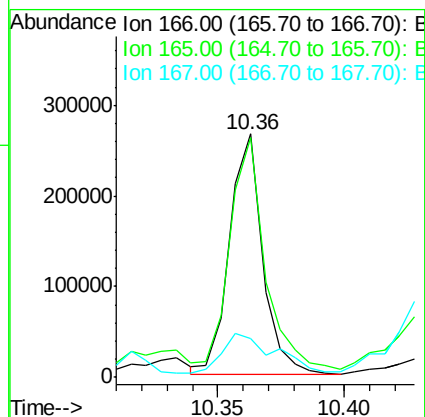
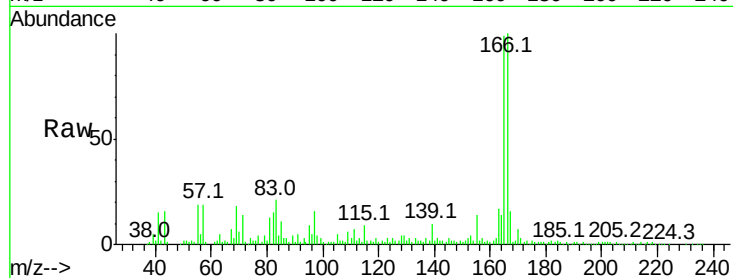
#57
Fluorene
 Concen: 19.918 ng
 RT: 10.36 min Scan# 1407
 Delta R.T. -0.01 min
 Lab File: BF097859.D
 Acq: 19 Aug 2017 3:40

Instrument :
 BNA_F
 ClientSampleId :
 BC8B3

Tot Ion	Ratio	Resp	Lower	Upper
166	100	240539		
165	98.6		78.8	118.2
167	16.1		10.6	16.0#

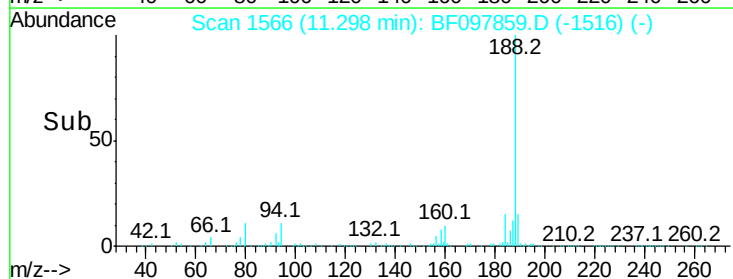
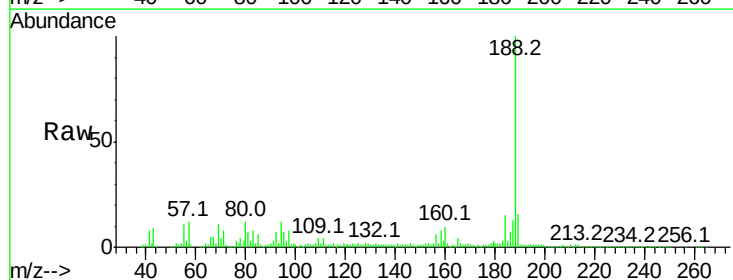
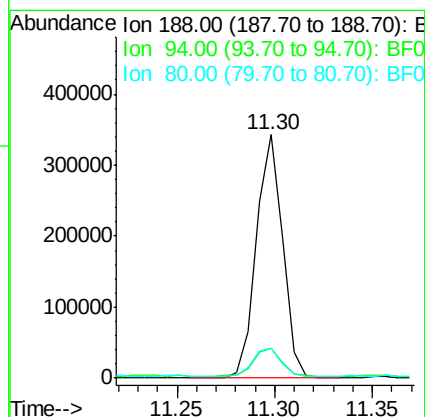
Manual Integrations
 APPROVED

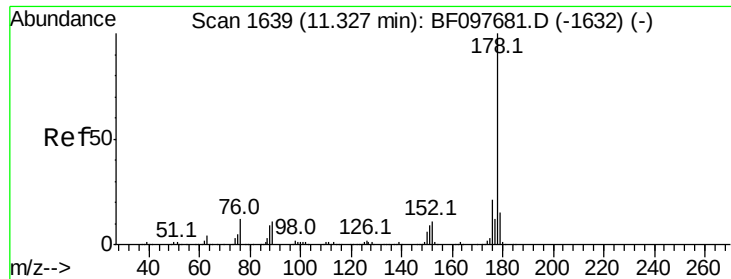
mohammad
 8/21/2017 8:19:22 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF097859.D
 Acq: 19 Aug 2017 3:40

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	318514		
94	12.0		9.4	14.2
80	12.3		10.2	15.2





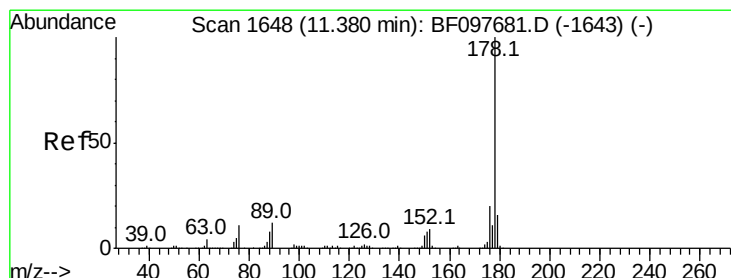
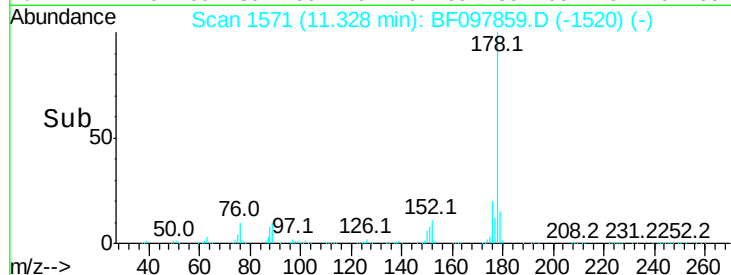
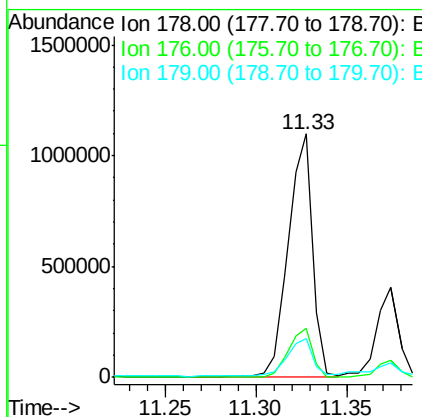
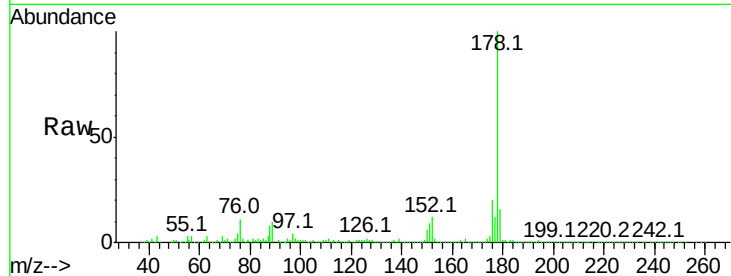
#70
Phenanthrene
Concen: 60.128 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.00 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Instrument :
BNA_F
ClientSampled :
BC8B3

Tot Ion:178 Resp: 1020535
Ion Ratio Lower Upper
178 100
176 20.3 16.2 24.4
179 16.0 12.6 19.0

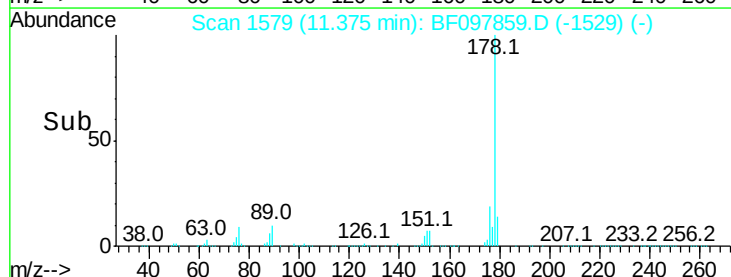
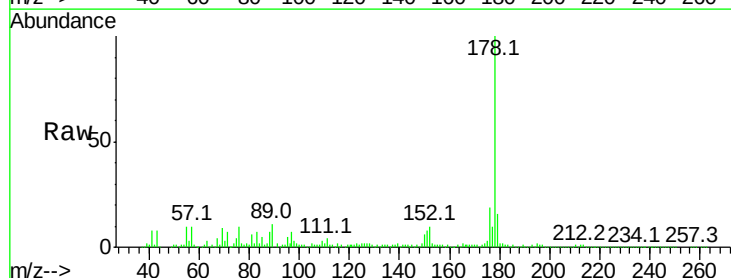
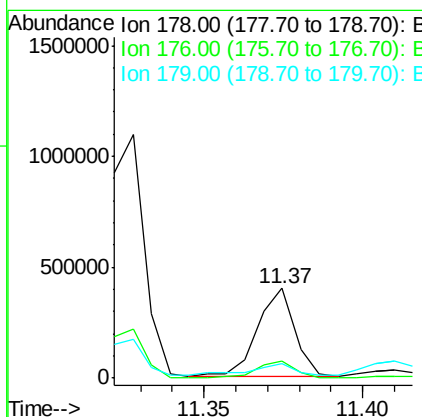
Manual Integrations
APPROVED

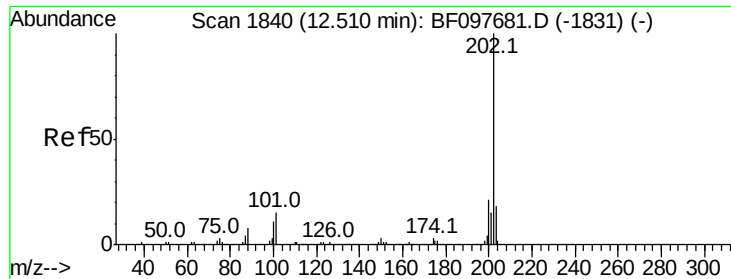
mohammad
8/21/2017 8:19:22 AM



#71
Anthracene
Concen: 18.663 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Tgt Ion:178 Resp: 321282
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 15.7 12.7 19.1





#74

Fluoranthene

Concen: 23.902 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Instrument :

BNA_F

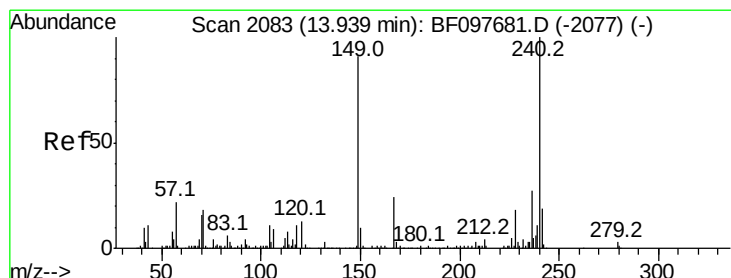
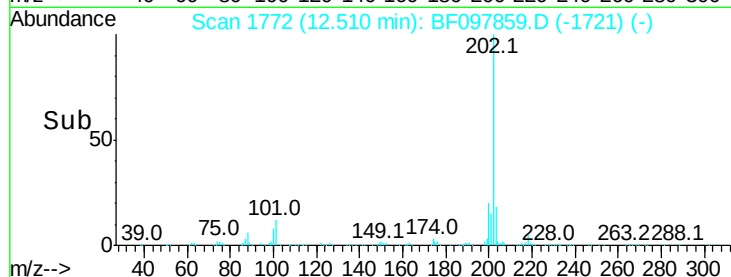
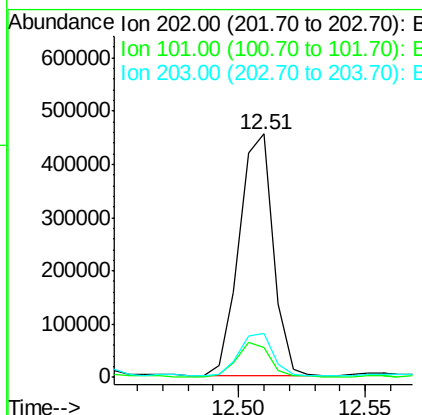
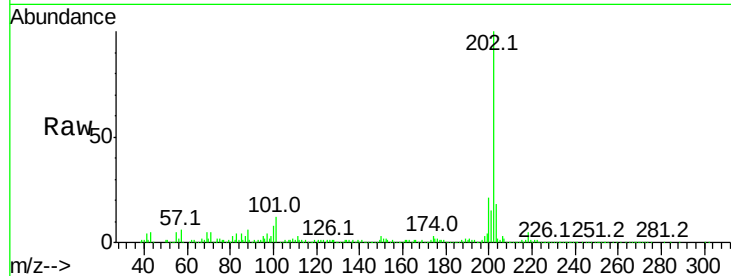
ClientSampleId :

BC8B3

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.3	0.0	33.2
203	18.1	0.0	38.1

Manual Integrations
APPROVED

mohammad
8/21/2017 8:19:22 AM



#75

Chrysene-d12

Concen: 20.000 ng

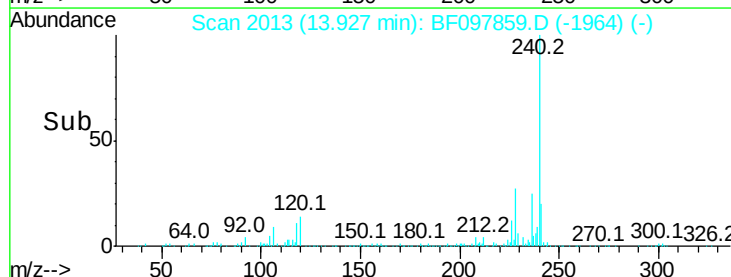
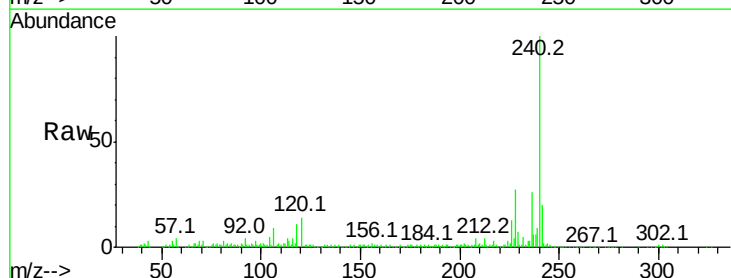
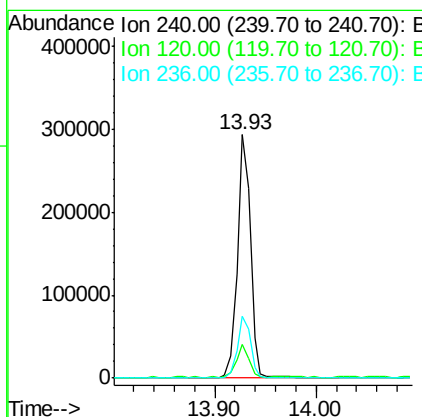
RT: 13.93 min Scan# 2013

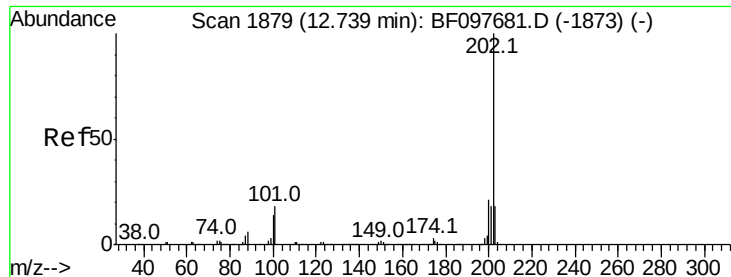
Delta R.T. -0.01 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.1	5.8	8.8#
236	25.7	20.5	30.7





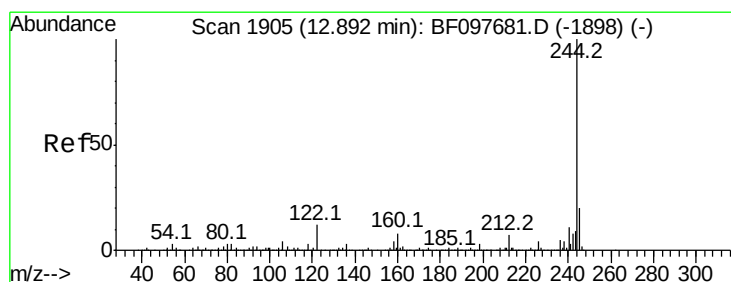
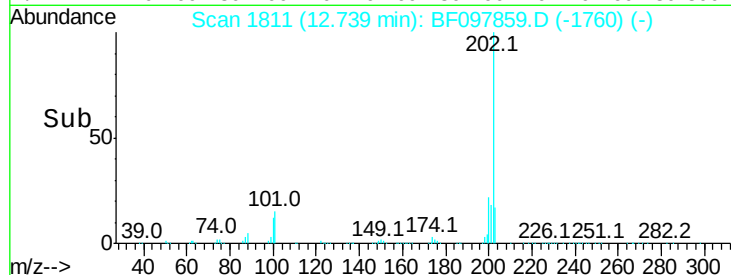
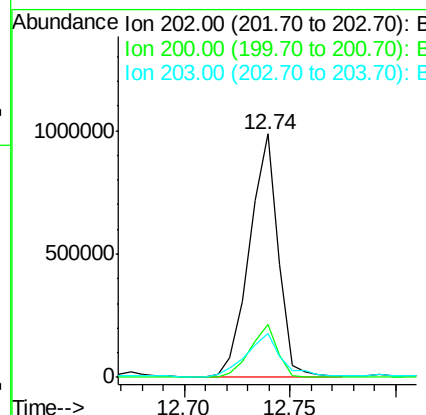
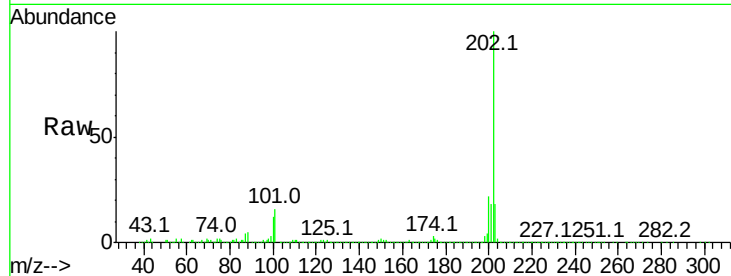
#77
Pvrene
Concen: 43.509 ng
RT: 12.74 min Scan# 1811
Delta R.T. 0.00 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Instrument :
BNA_F
ClientSampleId :
BC8B3

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.8	17.6	26.4
203	18.3	14.4	21.6

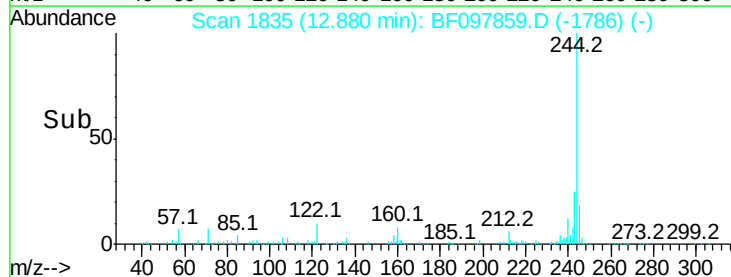
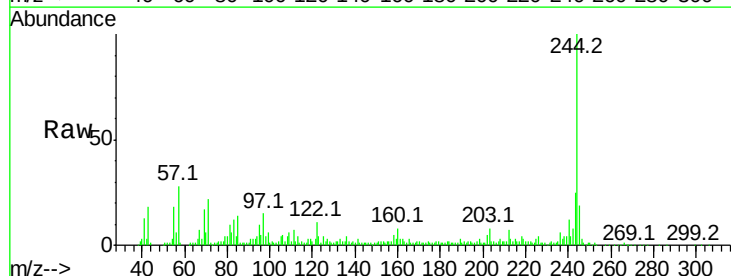
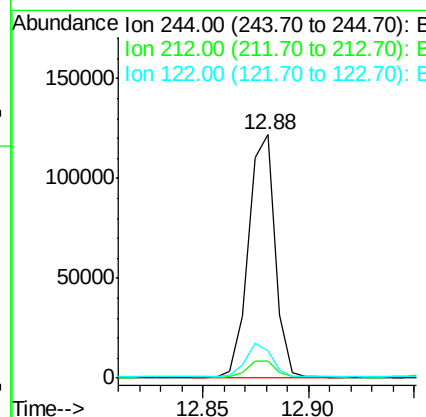
Manual Integrations
APPROVED

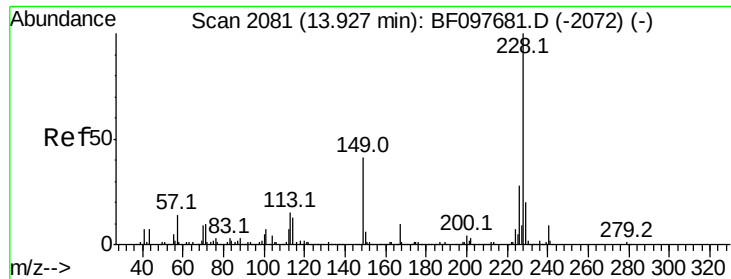
mohammad
8/21/2017 8:19:22 AM



#78
Terphenyl-d14
Concen: 8.502 ng
RT: 12.88 min Scan# 1835
Delta R.T. -0.01 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.0	6.0	9.0
122	11.5	10.3	15.5





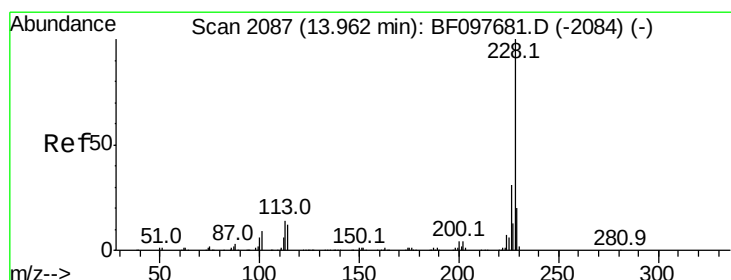
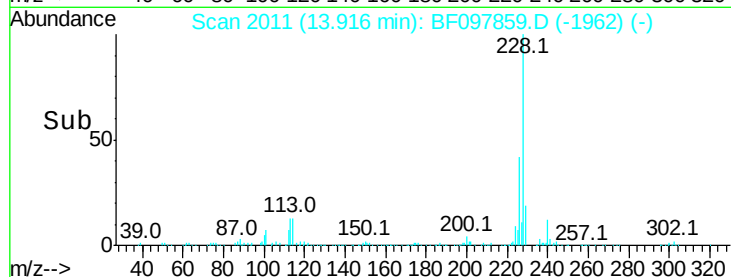
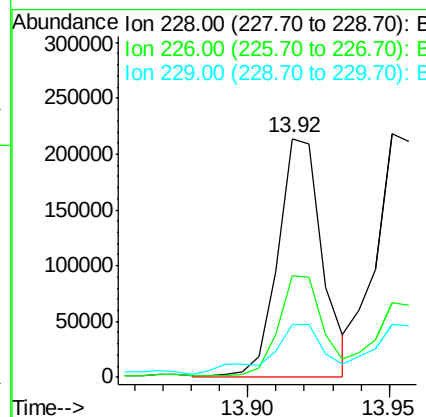
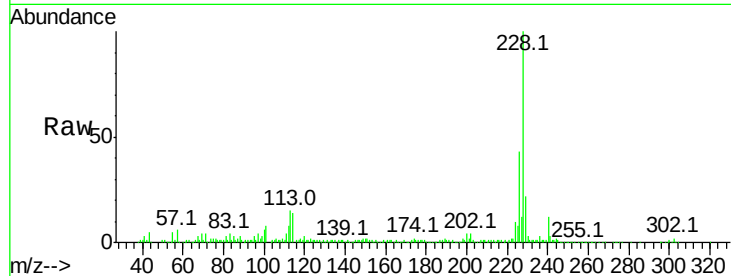
#80
Benzo(a)anthracene
Concen: 15.036 ng m
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Instrument :
BNA_F
ClientSampled :
BC8B3

Tot Ion	Ratio	Lower	Upper
228	100		
226	42.7	22.6	33.8#
229	22.2	16.3	24.5

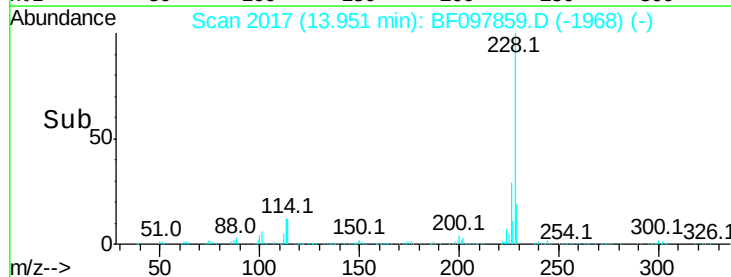
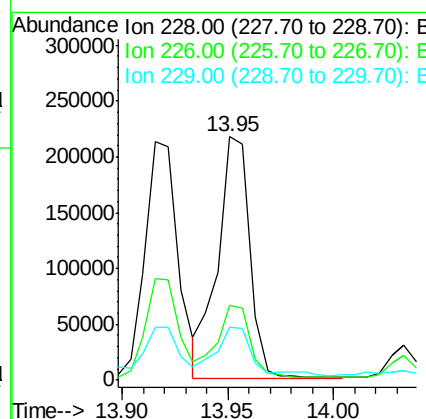
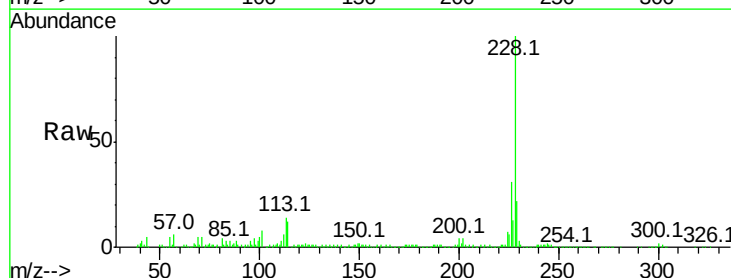
Manual Integrations
APPROVED

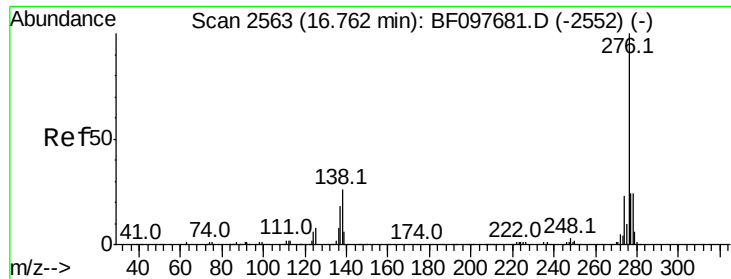
mohammad
8/21/2017 8:19:22 AM



#82
Chrysene
Concen: 14.829 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.01 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.9	37.3
229	21.7	15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.898 ng/mL

RT: 16.75 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Instrument :

BNA_F

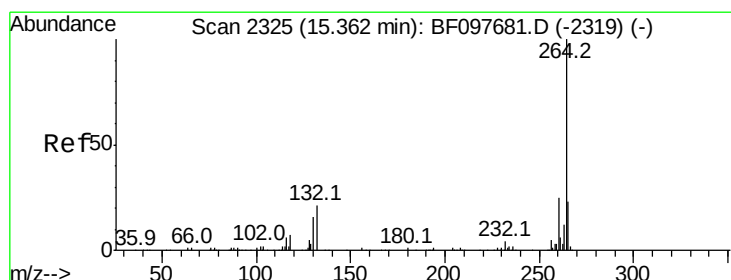
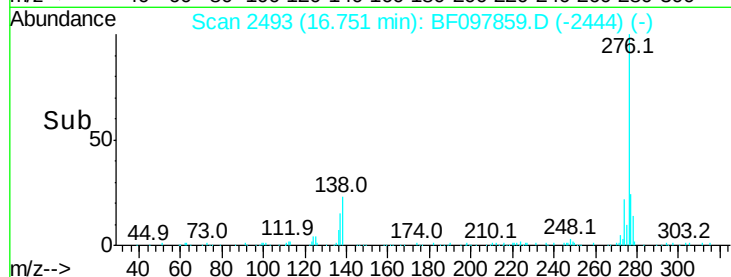
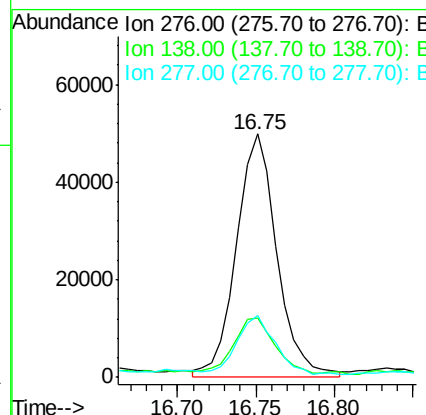
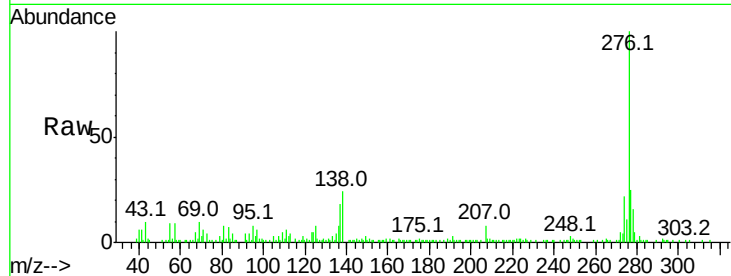
ClientSampleId :

BC8B3

Tot Ion:	276	Resp:	90084
Ion Ratio	Lower	Upper	
276	100		
138	5.0	27.8	41.6#
277	3.7	20.2	30.4#

Manual Integrations
APPROVED

mohammad
8/21/2017 8:19:22 AM



#86

Perylene-d12

Concen: 20.000 ng

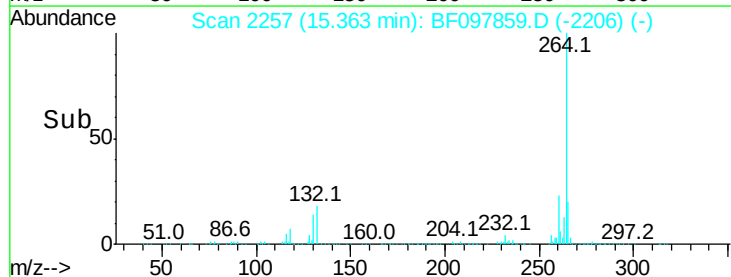
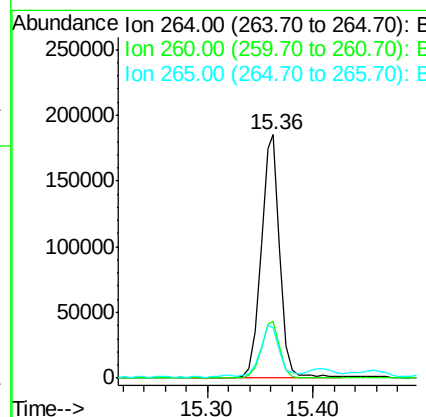
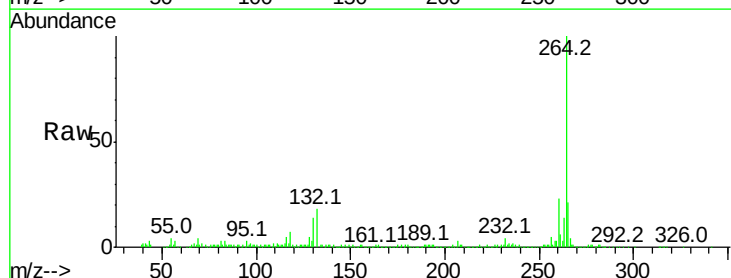
RT: 15.36 min Scan# 2257

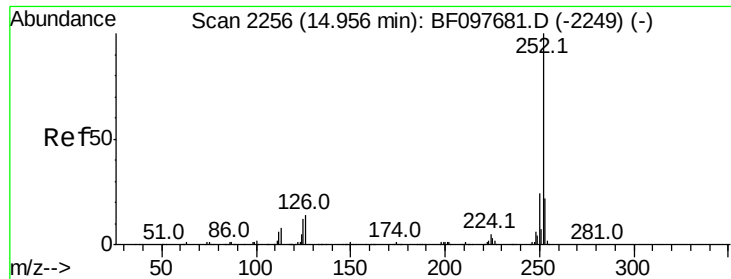
Delta R.T. 0.00 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Tgt Ion:	264	Resp:	230200
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.5	29.3
265	20.9	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 12.930 ng m

RT: 14.95 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Instrument :

BNA_F

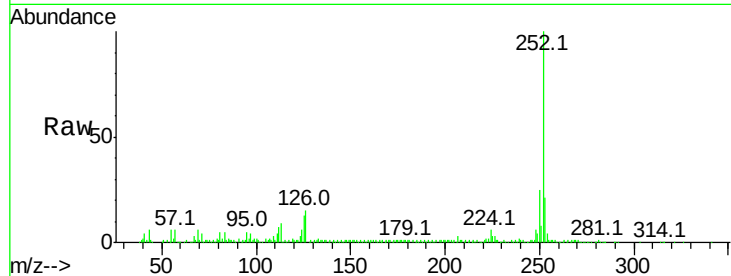
ClientSampleId :

BC8B3

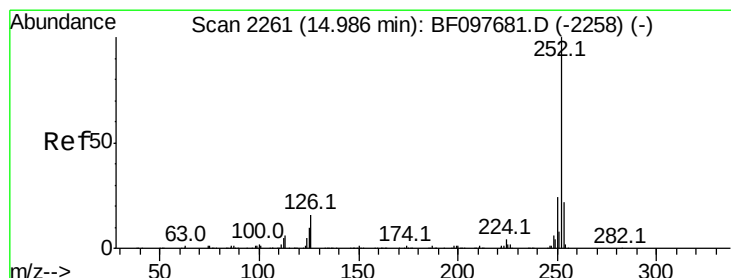
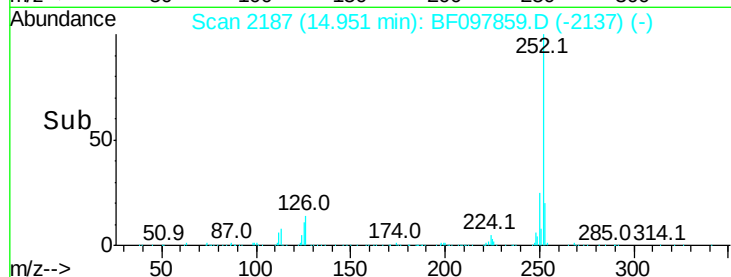
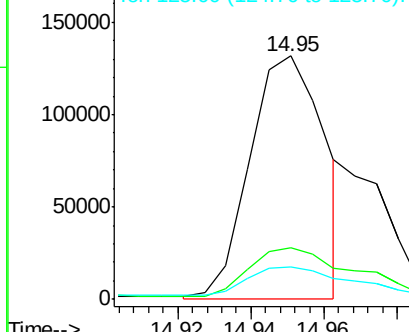
Tot Ion:	252	Resp:	187622
Ion Ratio	Lower	Upper	
252	100		
253	21.2	18.1	27.1
125	13.1	9.8	14.8

Manual Integrations
APPROVED

mohammad
8/21/2017 8:19:22 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: 4.710 ng m

RT: 14.96 min Scan# 2189

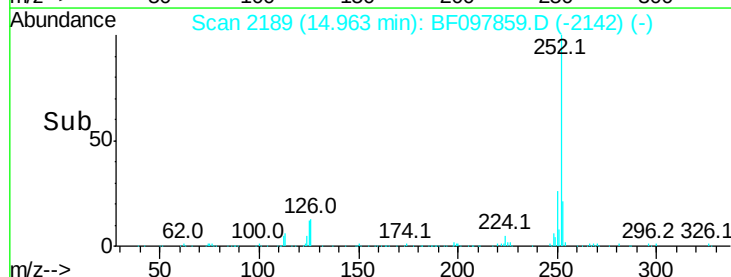
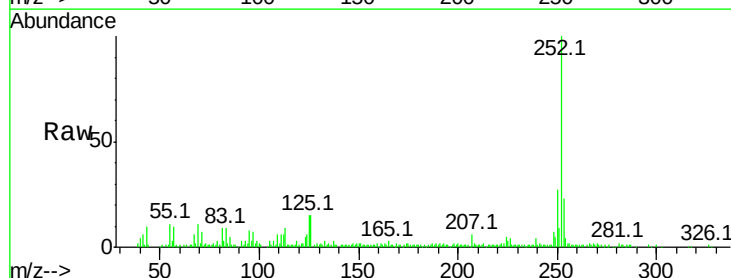
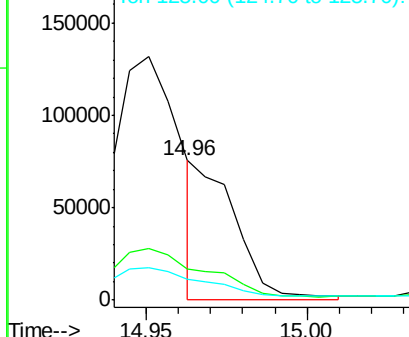
Delta R.T. -0.02 min

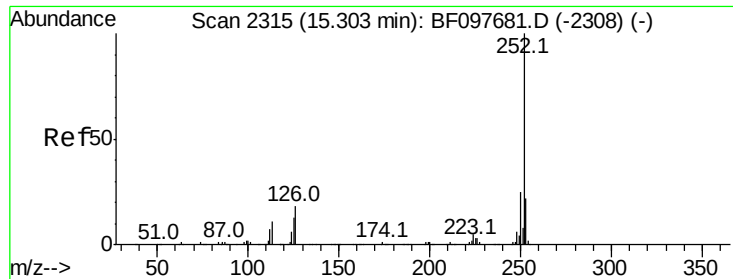
Lab File: BF097859.D

Acq: 19 Aug 2017 3:40

Tgt Ion:	252	Resp:	64206
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.4	27.6
125	15.4	13.1	19.7

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





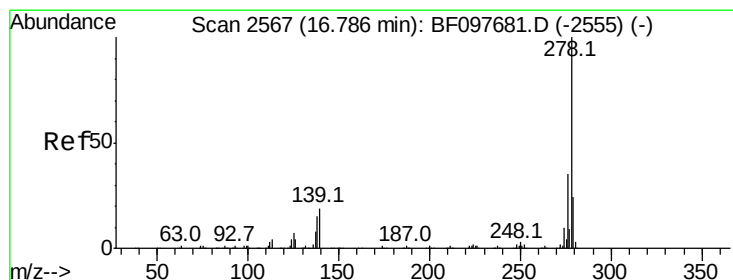
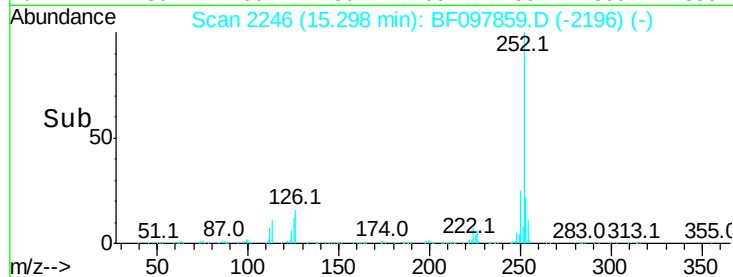
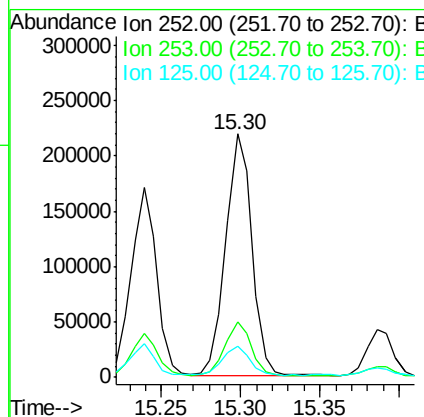
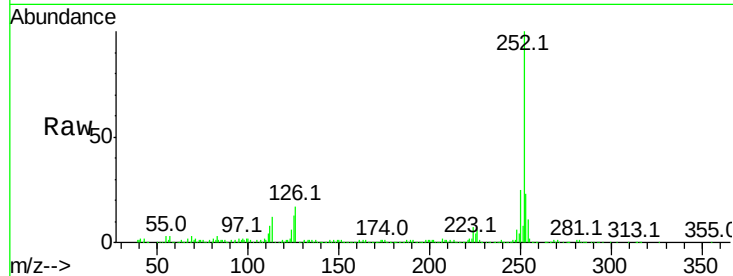
#89
Benzo(a)pyrene
Concen: 19.483 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Instrument :
BNA_F
ClientSampleId :
BC8B3

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	12.6	11.0	16.4

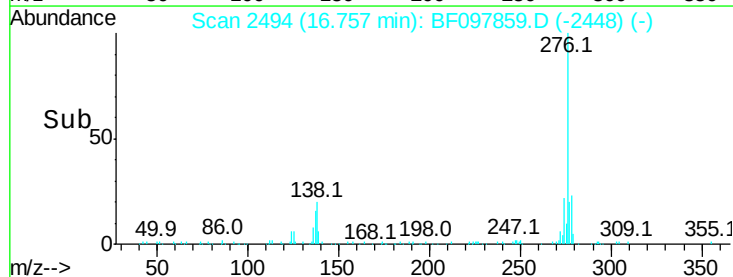
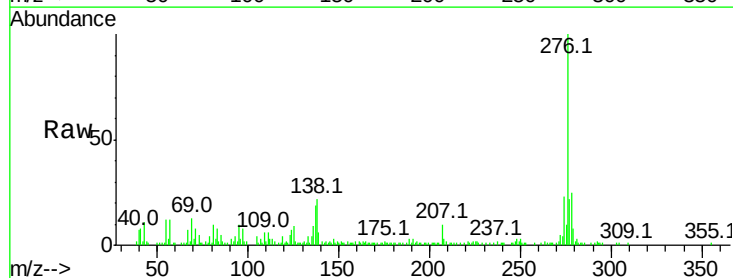
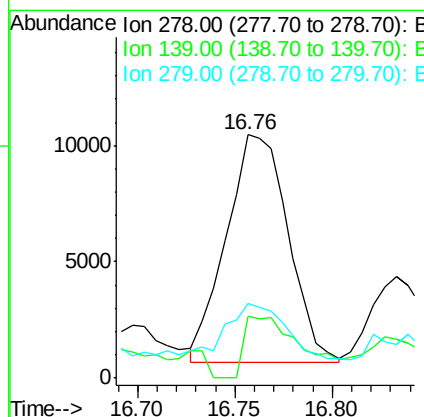
Manual Integrations
APPROVED

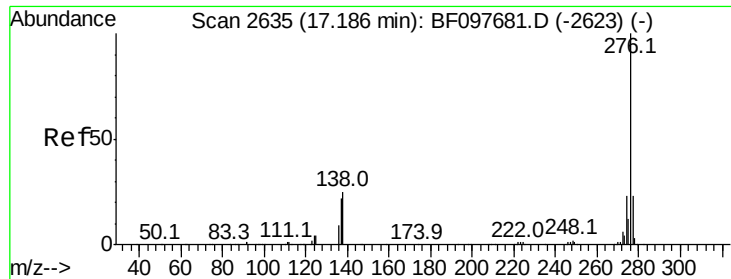
mohammad
8/21/2017 8:19:22 AM



#90
Dibenzo(a,h)anthracene
Concen: 2.080 ng m
RT: 16.76 min Scan# 2494
Delta R.T. -0.03 min
Lab File: BF097859.D
Acq: 19 Aug 2017 3:40

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.2	16.6	24.8#
279	30.8	19.3	28.9#





#91
 Benzo(a,h,i)perylene
 Concen: 11.525 ng/ml
 RT: 17.17 min Scan# 2565
 Delta R.T. -0.01 min
 Lab File: BF097859.D
 Acq: 19 Aug 2017 3:40

Instrument :
 BNA_F
 ClientSampleId :
 BC8B3

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.5	18.6	28.0
138	23.3	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 8/21/2017 8:19:22 AM

