

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
 Data File : BF099416.D
 Acq On : 13 Oct 2017 1:10
 Operator : SJ/JU
 Sample : I5729-14
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 7W-(1-2)

Manual Integrations
 APPROVED

Sohil
 10/13/2017 3:06:38 PM

Quant Time: Oct 13 05:01:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 16:25:21 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	111539	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	433807	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	169035	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	244915	20.00	ng	0.00
75) Chrysene-d12	14.02	240	209077	20.00	ng	0.00
86) Perylene-d12	15.49	264	174200	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	677214	96.65	ng	0.01
7) Phenol-d6	6.49	99	827592	95.75	ng	0.00
23) Nitrobenzene-d5	7.42	82	500999	74.06	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	116059	83.91	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	787225	77.75	ng	0.00
78) Terphenyl-d14	12.96	244	532885	57.96	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.50	94	27635	2.859	ng	95
31) Naphthalene	8.16	128	49496	2.429	ng	100
37) 2-Methylnaphthalene	8.85	142	35401	2.673	ng	98
49) Dimethylphthalate	9.60	163	182972	14.342	ng	99
51) Acenaphthene	9.92	154	34476	3.259	ng	99
54) Dibenzofuran	10.09	168	56225	3.992	ng	97
57) Fluorene	10.43	166	38973	3.443	ng	97
70) Phenanthrene	11.40	178	729144	55.619	ng	99
71) Anthracene	11.45	178	121486	9.057	ng	99
72) Carbazole	11.61	167	77870	5.928	ng	100
73) Di-n-butylphthalate	11.93	149	41543	2.627	ng	97
74) Fluoranthene	12.60	202	985225	74.217	ng	98
77) Pvrene	12.83	202	871864	54.687	ng	99
80) Benzo(a)anthracene	14.01	228	421896	33.325	ng	99
82) Chrysene	14.04	228	365206	30.300	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	137661	14.278	ng	99
87) Benzo(b)fluoranthene	15.06	252	414694m	38.718	ng	
88) Benzo(k)fluoranthene	15.09	252	143280m	13.544	ng	
89) Benzo(a)pvrene	15.43	252	252716	25.705	ng	# 95
90) Dibenzo(a,h)anthracene	16.97	278	34532	4.389	ng	# 77
91) Benzo(q,h,i)perylene	17.43	276	133010	17.102	ng	95

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

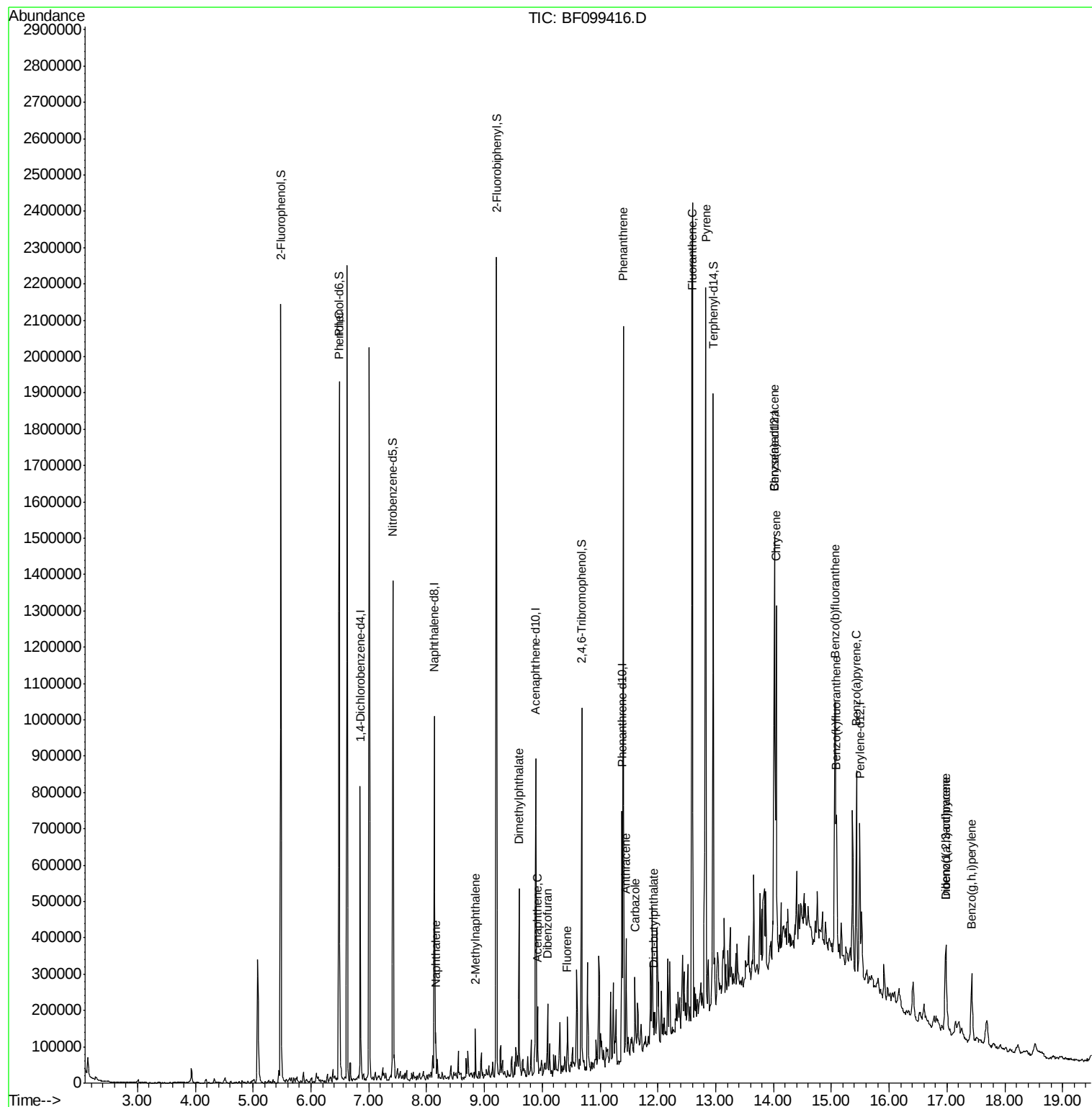
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099416.D
Acq On : 13 Oct 2017 1:10
Operator : SJ/JU
Sample : I5729-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

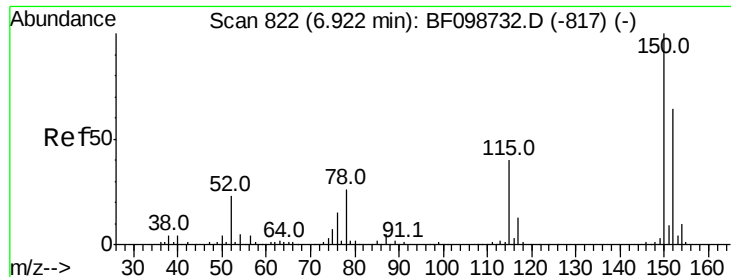
Instrument :
BNA_F
ClientSampleId :
7W-(1-2)

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM

Quant Time: Oct 13 05:01:13 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 11 16:25:21 2017
Response via : Initial Calibration





#1

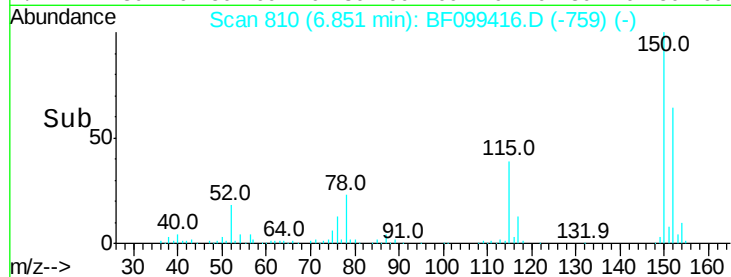
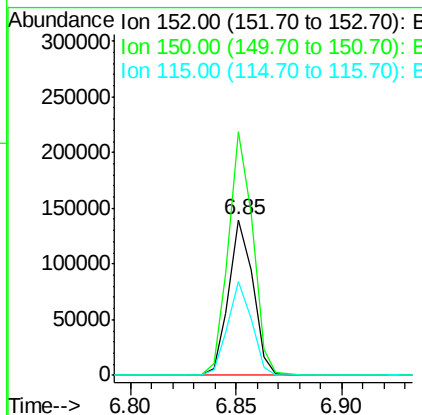
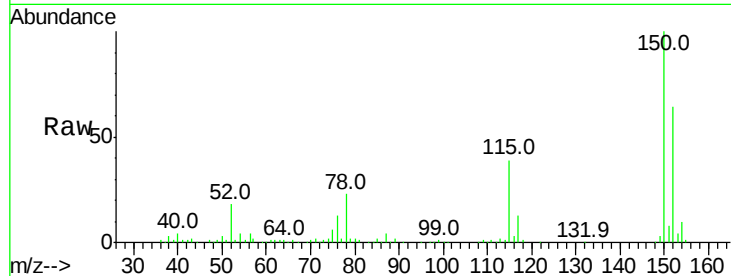
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Instrument :
BNA_F
ClientSampled :
7W-(1-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.6	186.8
115	60.3	50.1	75.1

Manual Integrations
APPROVED

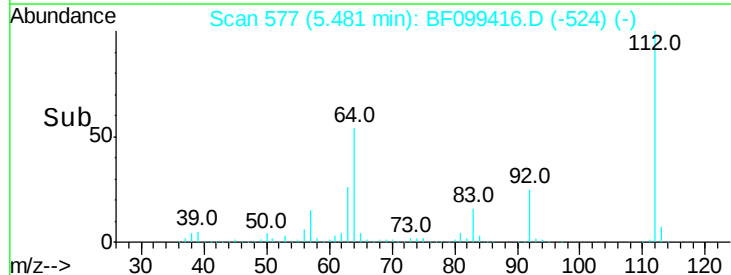
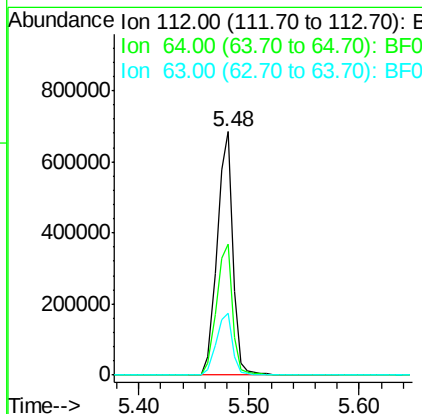
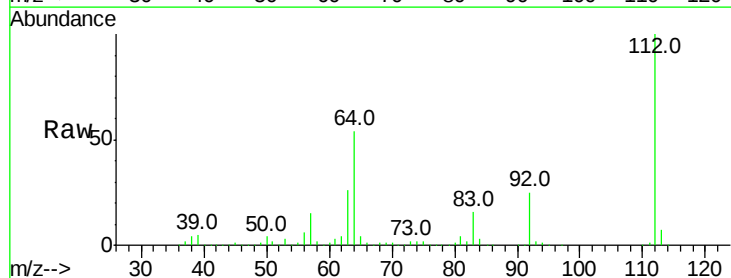
Sohil
10/13/2017 3:06:38 PM

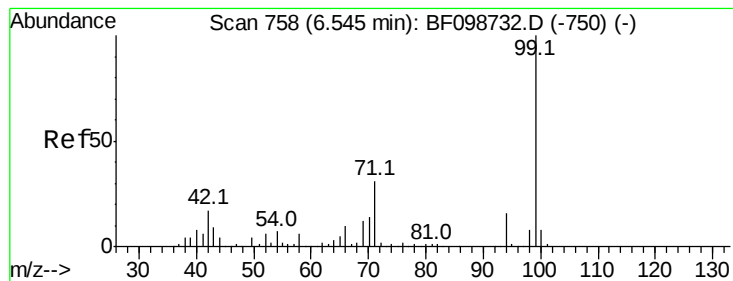


#5

2-Fluorophenol
Concen: 96.653 ng
RT: 5.48 min Scan# 577
Delta R.T. 0.01 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.6	47.9	71.9
63	25.6	23.7	35.5





#7

Phenol-d6

Concen: 95.747 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Instrument :

BNA_F

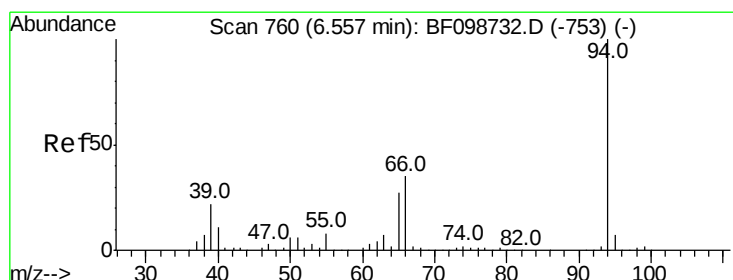
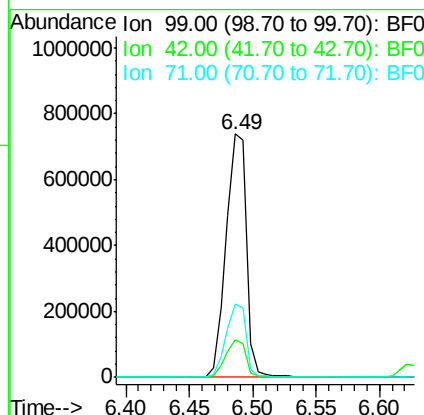
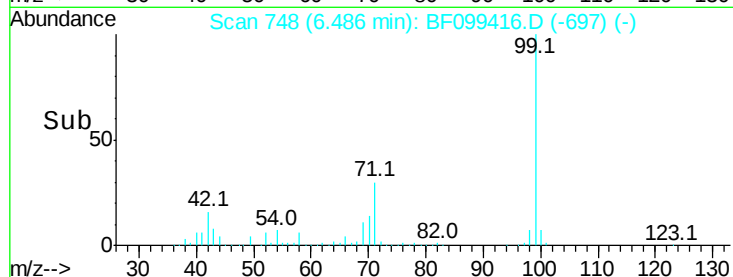
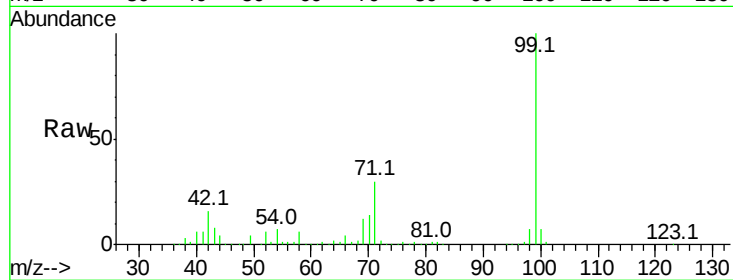
ClientSampled :

7W-(1-2)

Tot Ion:	99	Resp:	827592
Ion Ratio	Lower	Upper	
99	100		
42	15.5	14.5	21.7
71	30.4	25.4	38.0

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



#10

Phenol

Concen: 2.859 ng

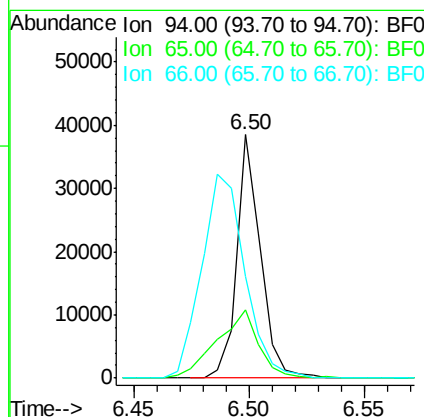
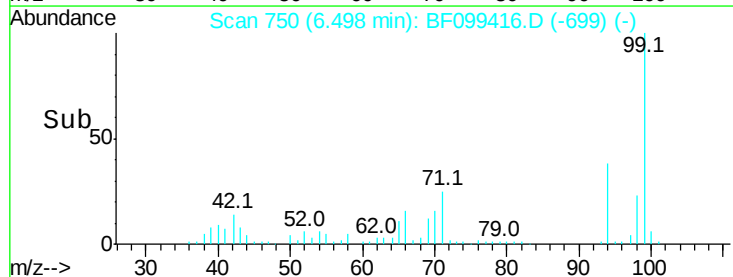
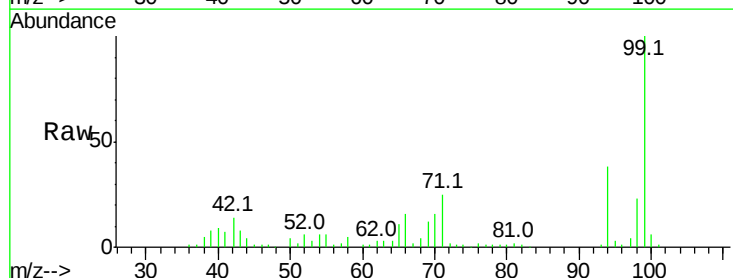
RT: 6.50 min Scan# 750

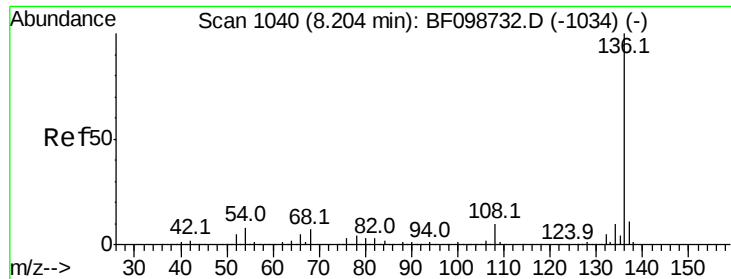
Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Tgt Ion:	94	Resp:	27635
Ion Ratio	Lower	Upper	
94	100		
65	28.1	7.9	47.9
66	41.6	16.2	56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Instrument :

BNA_F

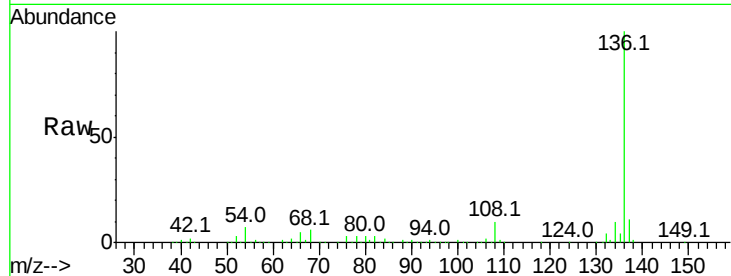
ClientSampleId :

7W-(1-2)

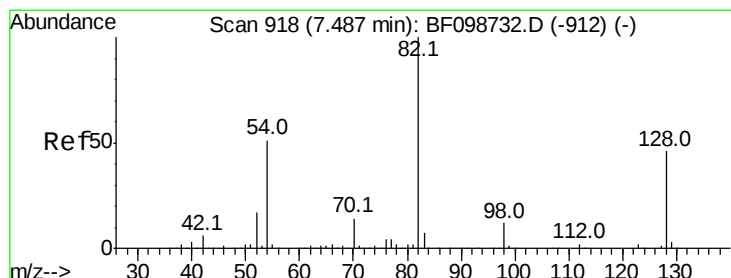
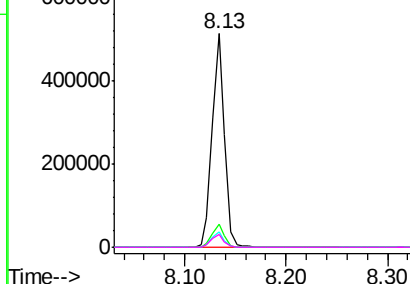
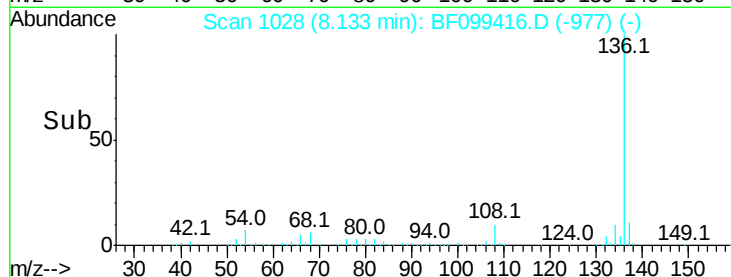
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.9	13.3	
54	7.3	6.6	9.8	
68	6.2	5.0	7.4	

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



Abundance Ion 136.00 (135.70 to 136.70): E
800000
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: 74.063 ng

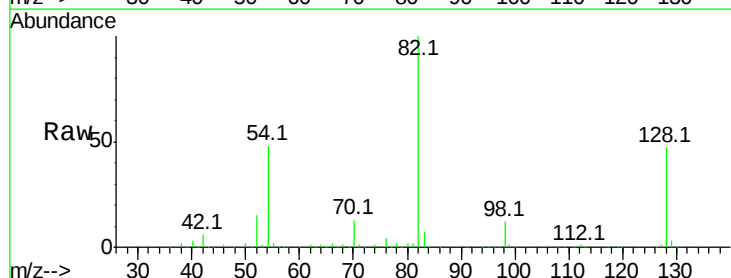
RT: 7.42 min Scan# 906

Delta R.T. -0.01 min

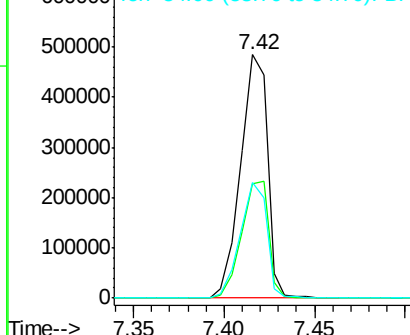
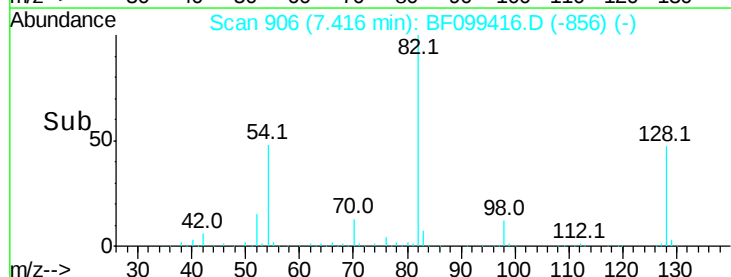
Lab File: BF099416.D

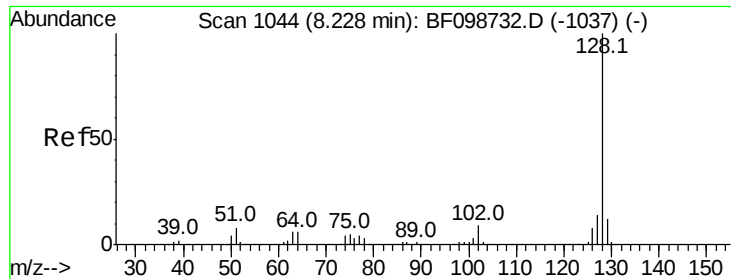
Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.1	36.1	54.1	
54	47.6	41.4	62.2	



Abundance Ion 82.00 (81.70 to 82.70): BF0
600000
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





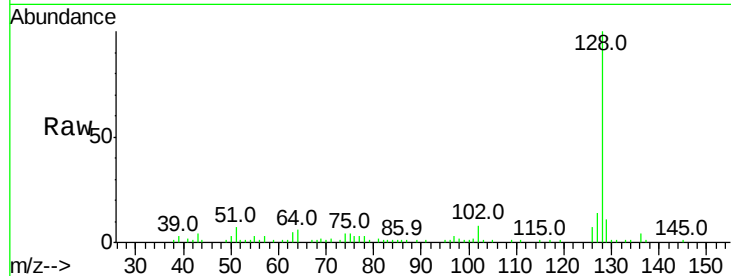
#31
Naphthalene
Concen: 2.429 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.00 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Instrument :
BNA_F
ClientSampleId :
7W-(1-2)

Tot Ion	Ratio	Resp	Lower	Upper
128	100	49496		
129	11.1		8.8	13.2
127	13.5		10.9	16.3

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM

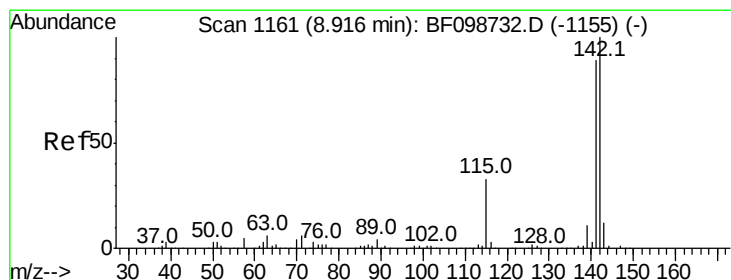
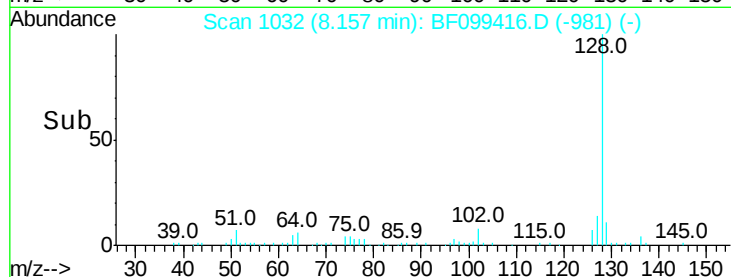
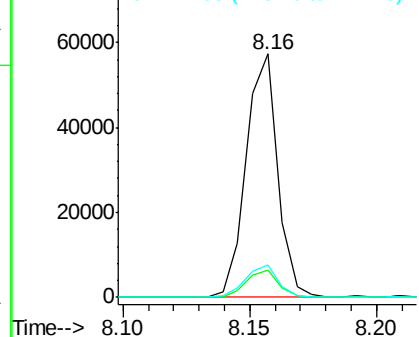


Abundance

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: 2.673 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.00 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

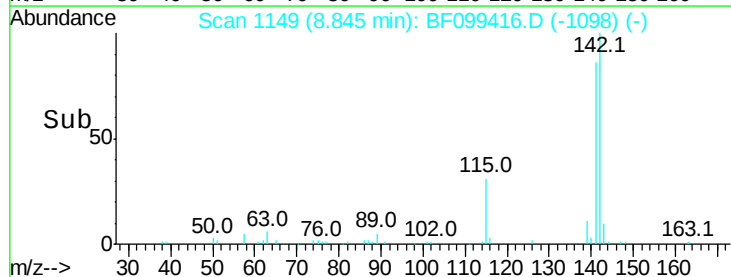
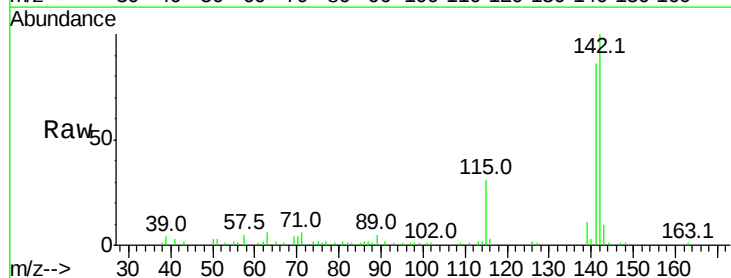
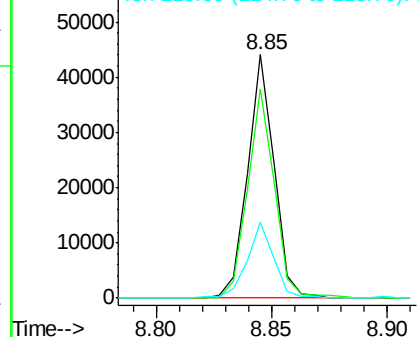
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	35401		
141	86.1		70.8	106.2
115	31.4		26.1	39.1

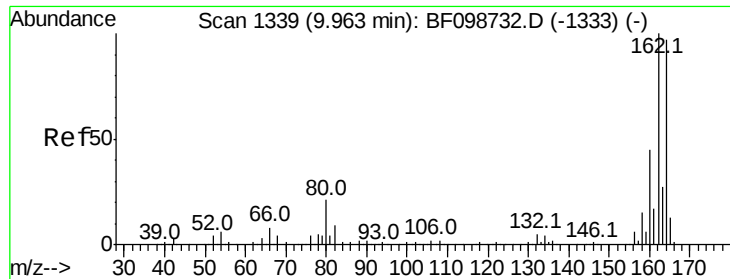
Abundance

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





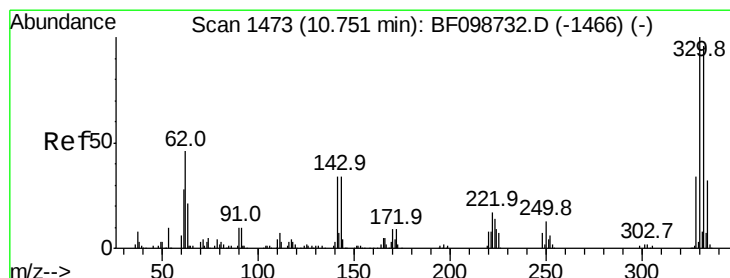
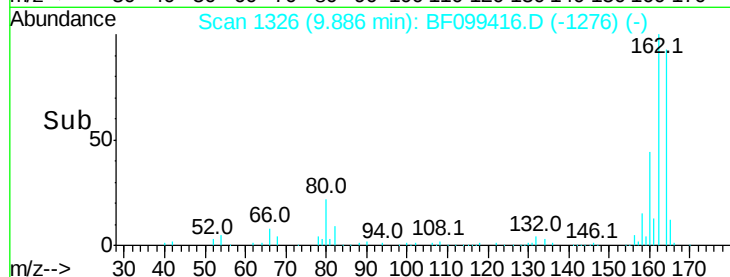
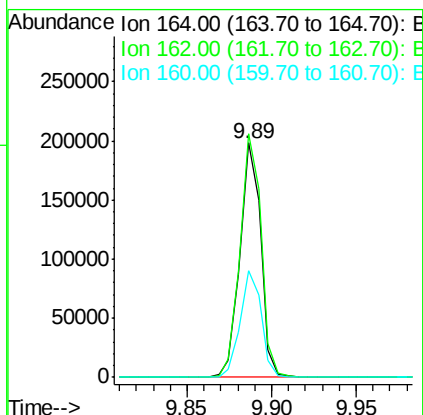
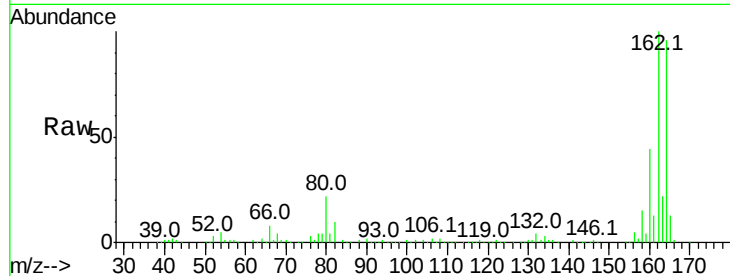
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: BF099416.D
 Acq: 13 Oct 2017 1:10

Instrument :
 BNA_F
 ClientSampled :
 7W-(1-2)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	169035		
162	103.8	86.1	129.1	
160	45.6	38.3	57.5	

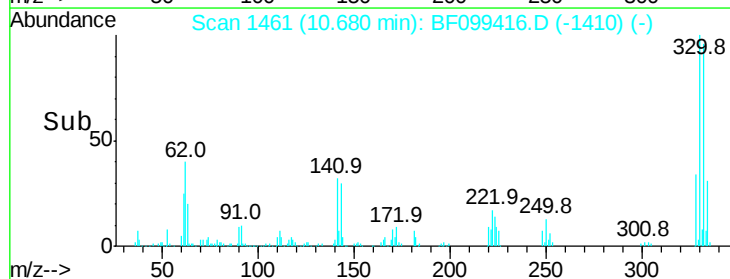
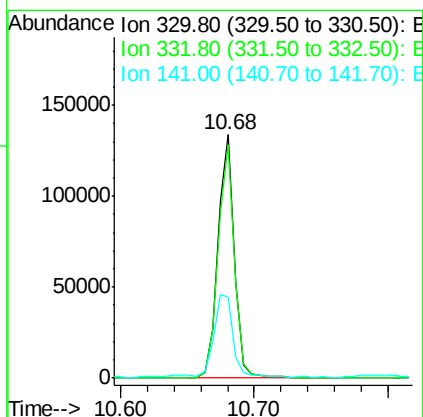
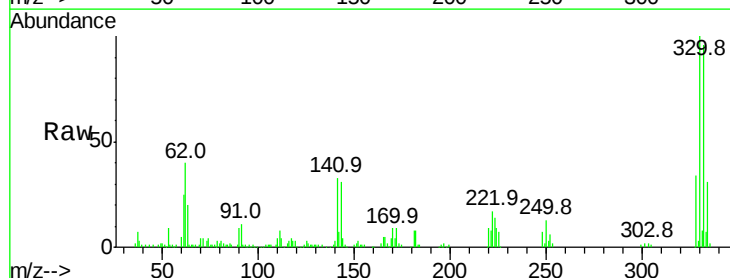
Manual Integrations
 APPROVED

Sohil
 10/13/2017 3:06:38 PM



#41
 2,4,6-Tribromophenol
 Concen: 83.908 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.00 min
 Lab File: BF099416.D
 Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	116059		
332	96.5	77.0	115.6	
141	42.0	29.9	44.9	





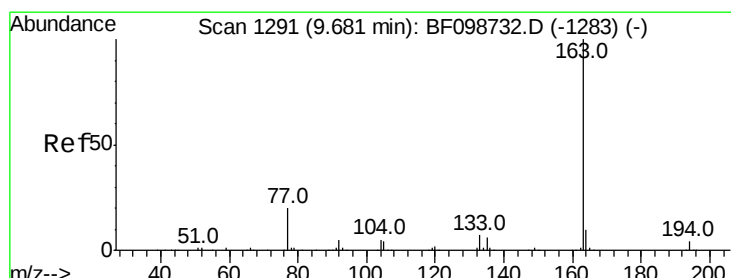
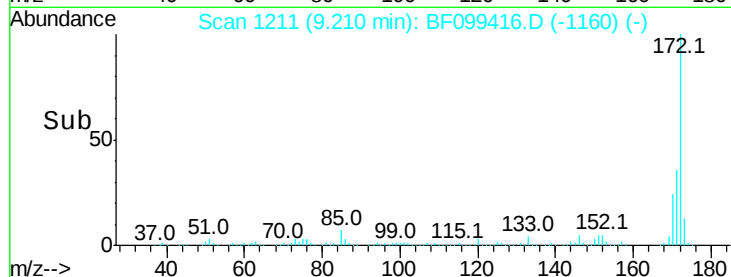
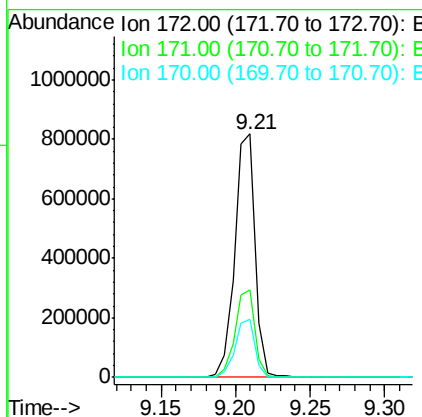
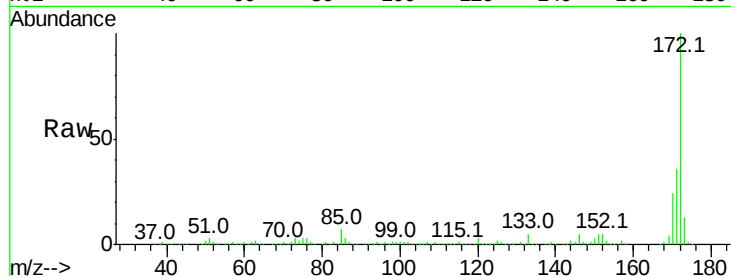
#44
2-Fluorobiphenyl
Concen: 77.748 ng
RT: 9.21 min Scan# 1211
Delta R.T. -0.00 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Instrument :
BNA_F
ClientSampled :
7W-(1-2)

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.0	29.7	44.5	
170	24.0	19.6	29.4	

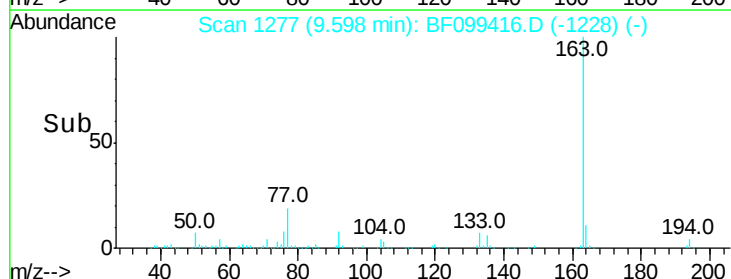
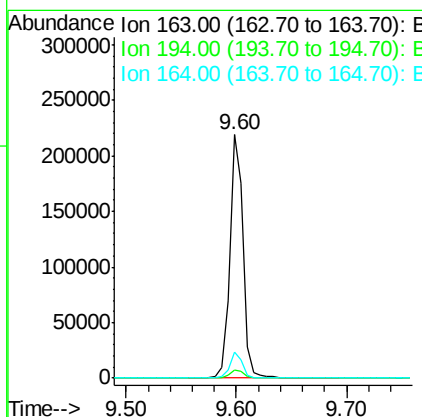
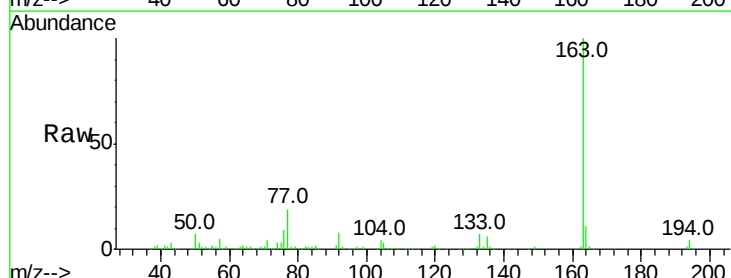
Manual Integrations
APPROVED

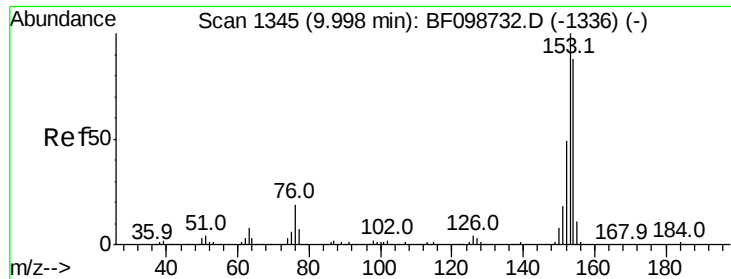
Sohil
10/13/2017 3:06:38 PM



#49
Dimethylphthalate
Concen: 14.342 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.6	2.7	4.1	
164	10.5	8.2	12.2	





#51

Acenaphthene

Concen: 3.259 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Instrument :

BNA_F

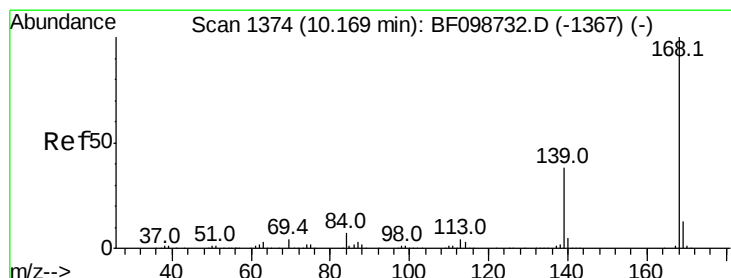
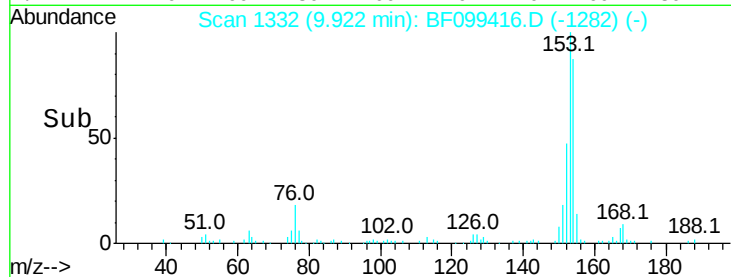
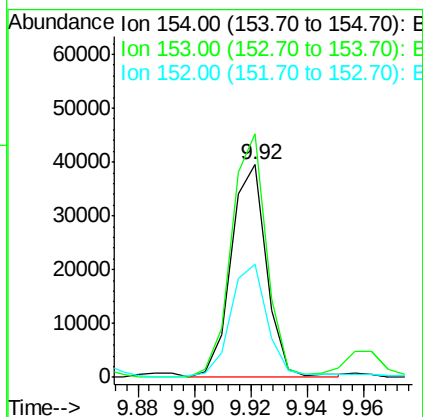
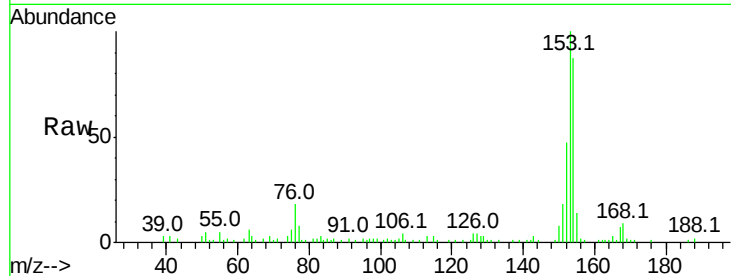
ClientSampleId :

7W-(1-2)

Tot Ion:	154	Resp:	34476
Ion Ratio	Lower	Upper	
154	100		
153	114.5	91.2	136.8
152	53.4	43.8	65.8

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



#54

Dibenzofuran

Concen: 3.992 ng

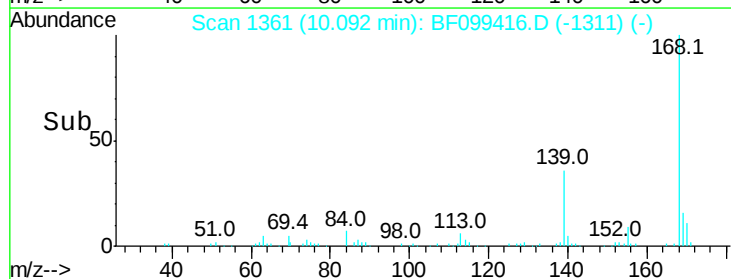
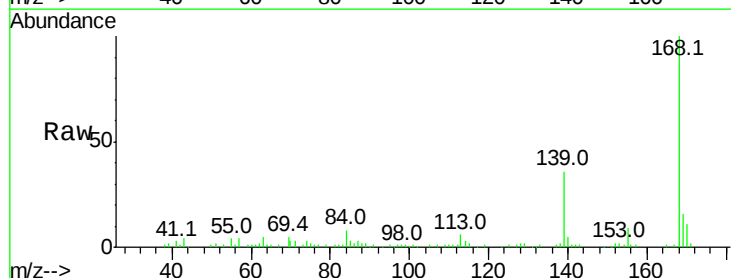
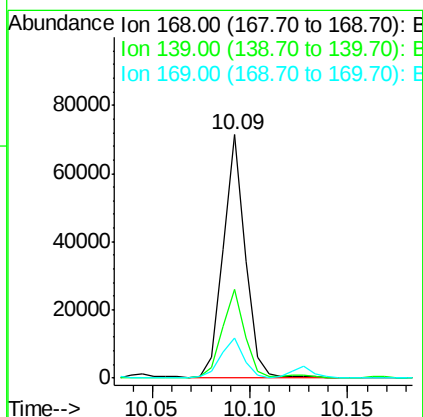
RT: 10.09 min Scan# 1361

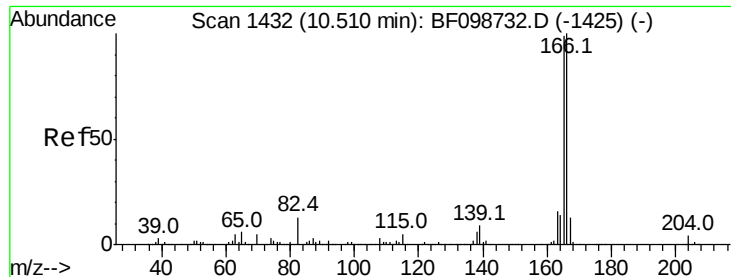
Delta R.T. -0.01 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Tgt Ion:	168	Resp:	56225
Ion Ratio	Lower	Upper	
168	100		
139	36.2	30.1	45.1
169	16.3	10.9	16.3





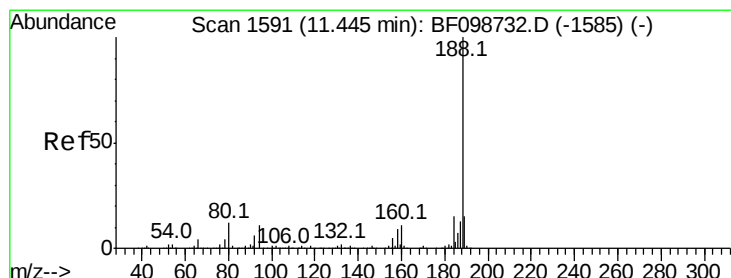
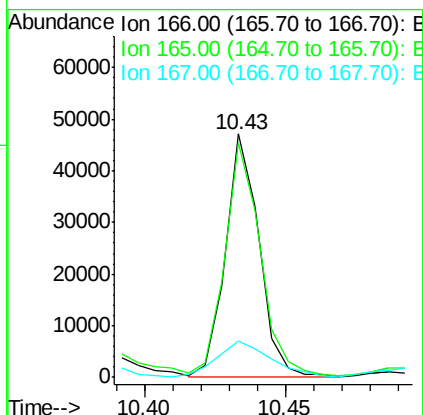
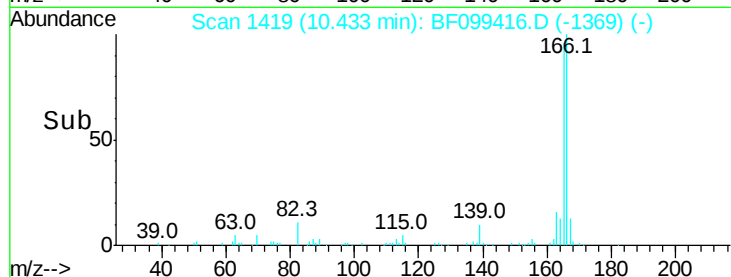
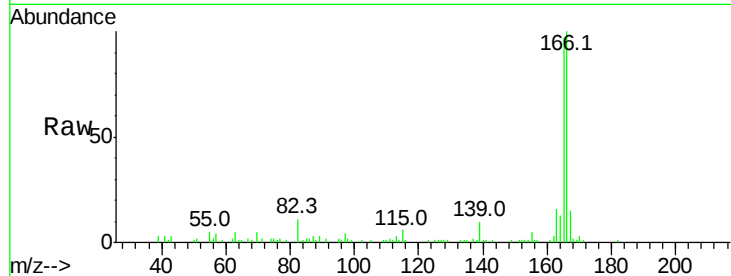
#57
Fluorene
 Concen: 3.443 ng
 RT: 10.43 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: BF099416.D
 Acq: 13 Oct 2017 1:10

Instrument :
 BNA_F
 ClientSampleId :
 7W-(1-2)

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.6	79.8	119.8
167	14.7	10.6	16.0

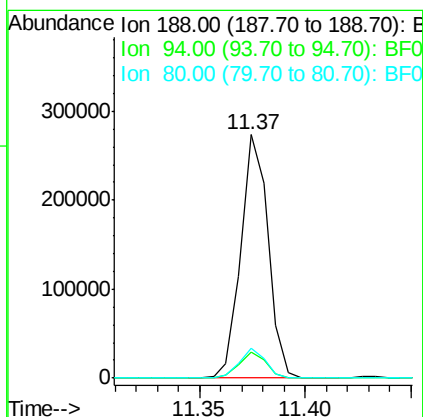
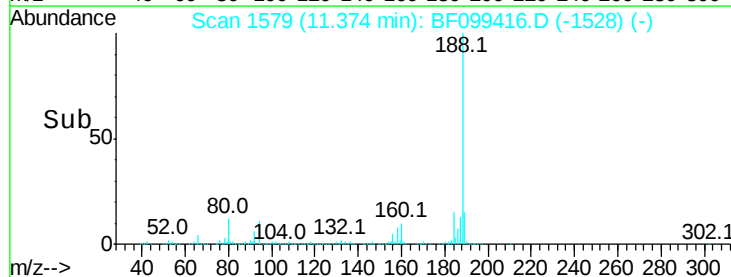
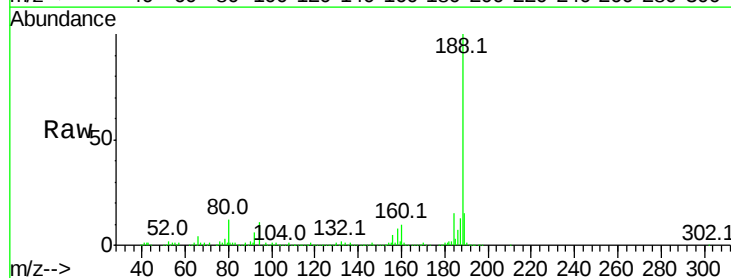
Manual Integrations
 APPROVED

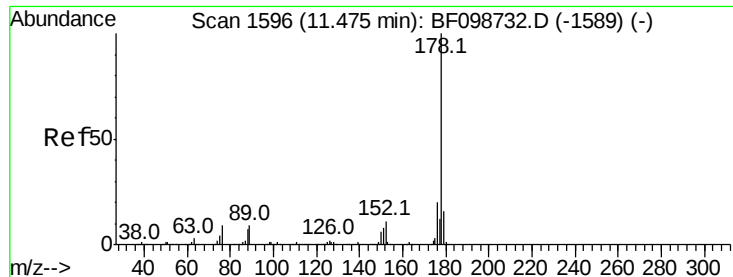
Sohil
 10/13/2017 3:06:38 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.00 min
 Lab File: BF099416.D
 Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.5	12.7
80	12.0	9.2	13.8





#70

Phenanthrene

Concen: 55.619 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Instrument :

BNA_F

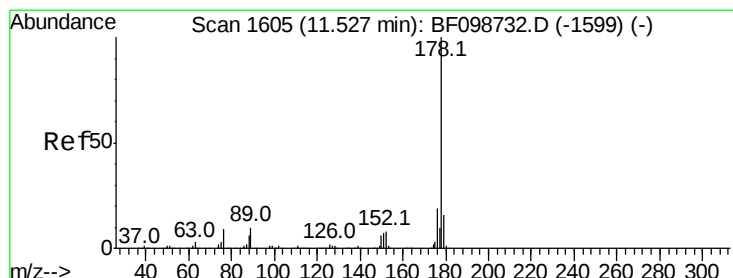
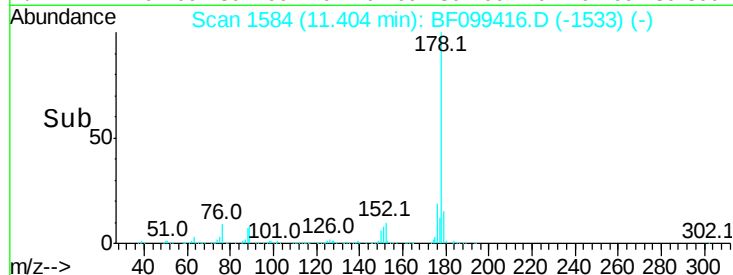
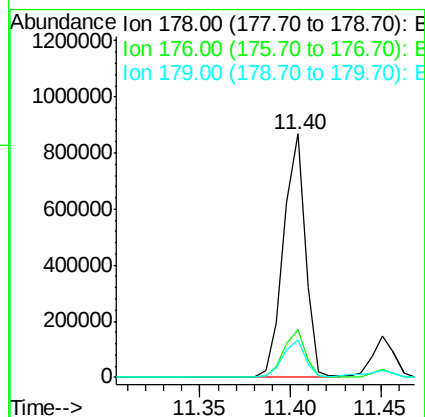
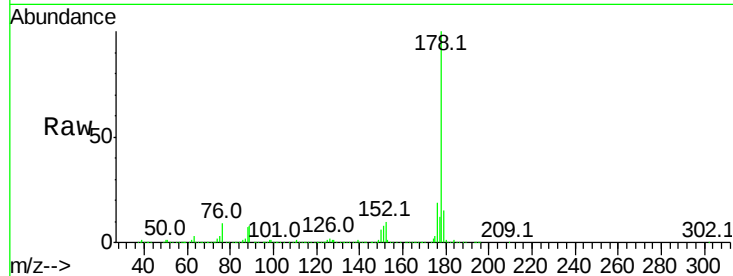
ClientSampled :

7W-(1-2)

Tot Ion:178	Resp:	729144
Ion Ratio	Lower	Upper
178	100	
176	19.5	15.8 23.8
179	15.4	13.0 19.6

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



#71

Anthracene

Concen: 9.057 ng

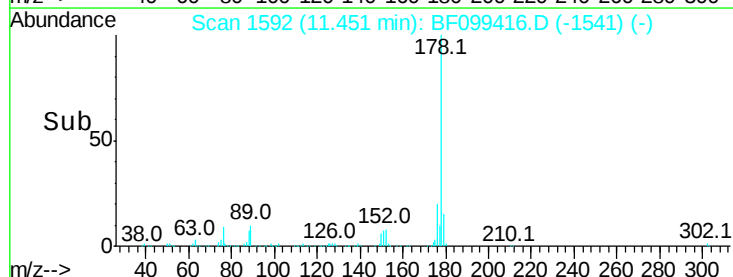
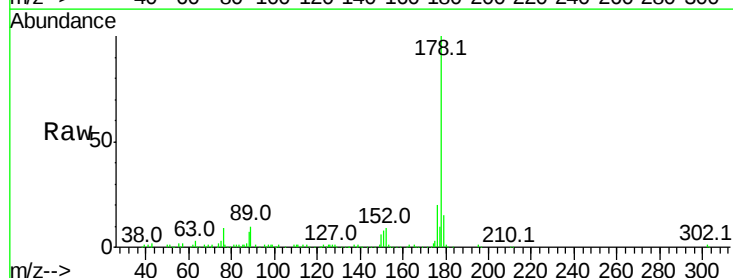
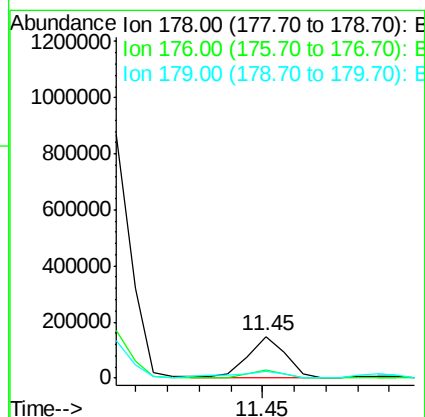
RT: 11.45 min Scan# 1592

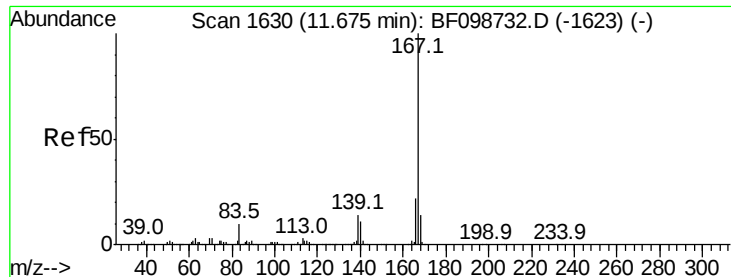
Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Tgt Ion:178	Resp:	121486
Ion Ratio	Lower	Upper
178	100	
176	19.5	15.4 23.2
179	15.3	12.6 19.0





#72

Carbazole

Concen: 5.928 ng

RT: 11.61 min Scan# 1619

Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Instrument :

BNA_F

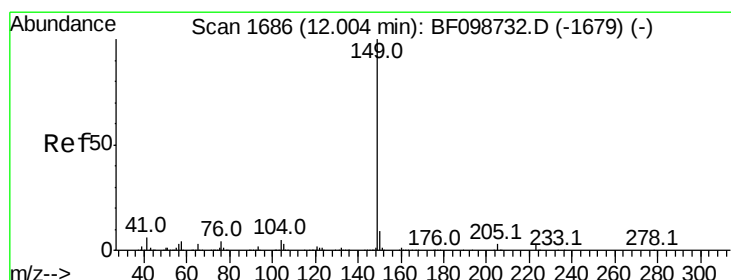
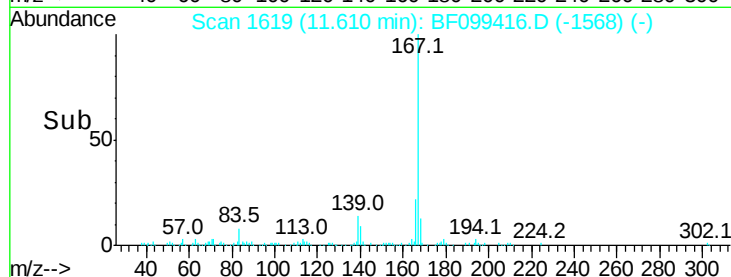
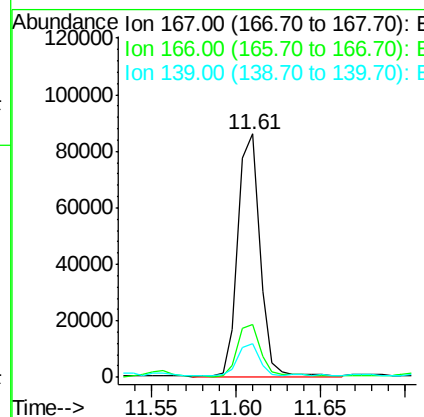
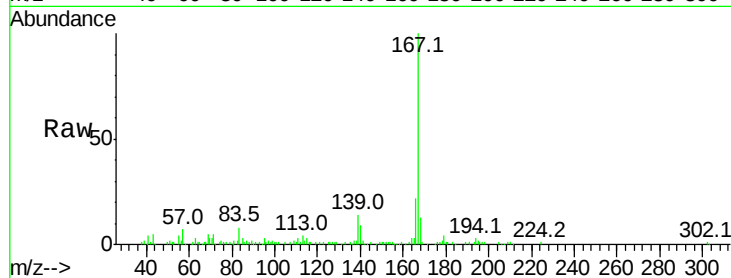
ClientSampleId :

7W-(1-2)

Tot Ion:	167	Resp:	77870
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.6	26.4
139	14.0	10.9	16.3

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



#73

Di-n-butylphthalate

Concen: 2.627 ng

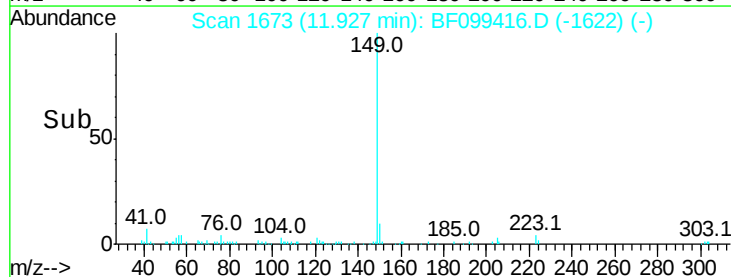
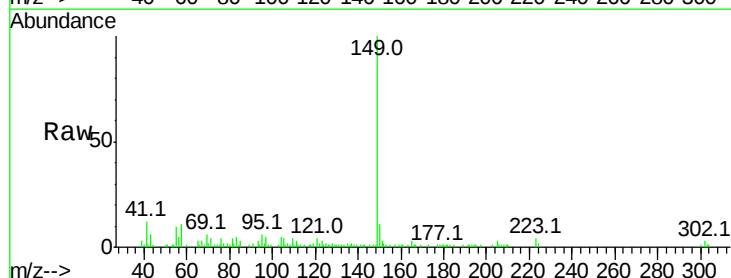
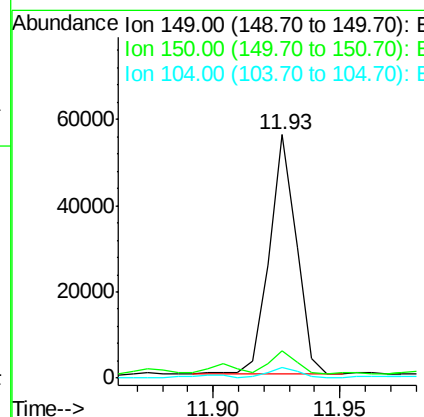
RT: 11.93 min Scan# 1673

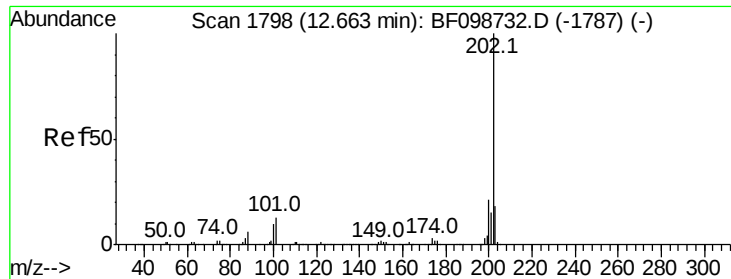
Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Tgt Ion:	149	Resp:	41543
Ion Ratio	Lower	Upper	
149	100		
150	11.3	7.8	11.6
104	4.6	3.8	5.8





#74

Fluoranthene

Concen: 74.217 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.01 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Instrument :

BNA_F

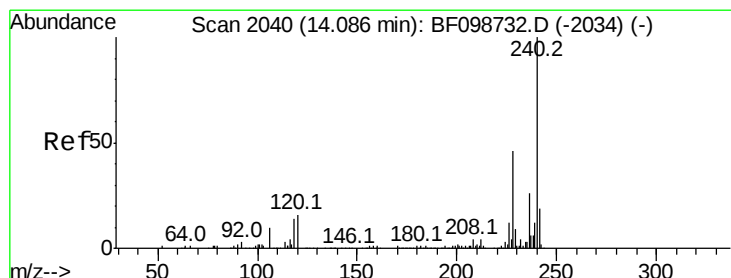
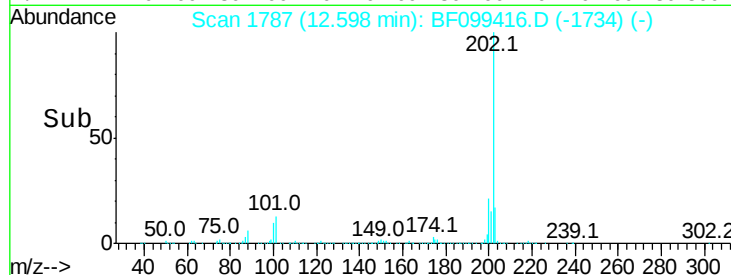
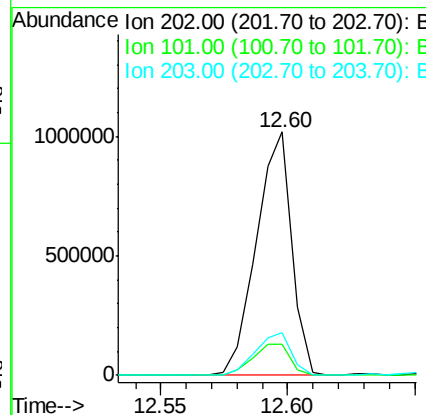
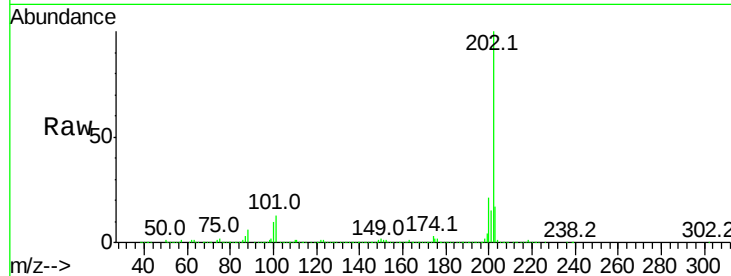
ClientSampleId :

7W-(1-2)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.6	0.0	34.1
203	17.4	0.0	38.1

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



#75

Chrysene-d12

Concen: 20.000 ng

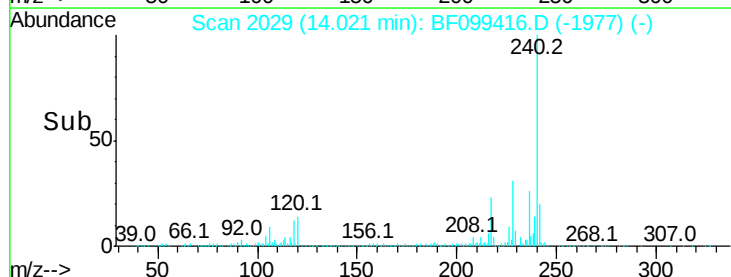
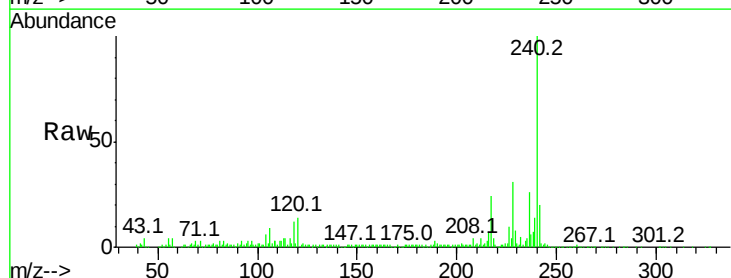
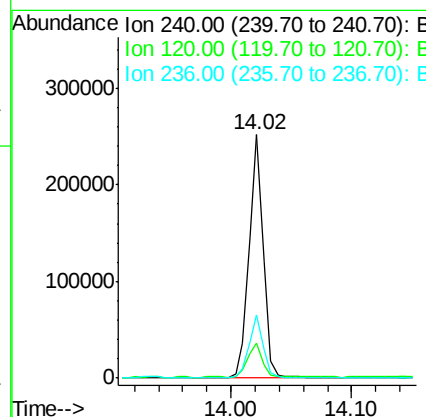
RT: 14.02 min Scan# 2029

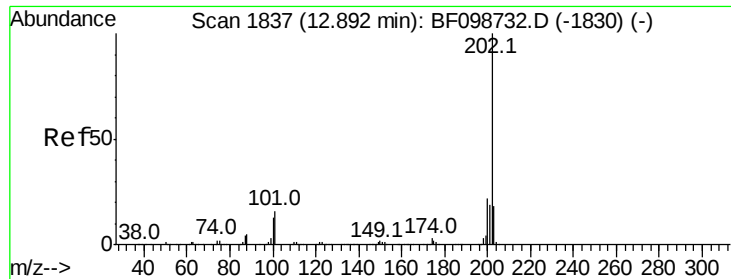
Delta R.T. 0.01 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.4	9.5	14.3#
236	25.9	20.7	31.1





#77

Pvrene

Concen: 54.687 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Instrument :

BNA_F

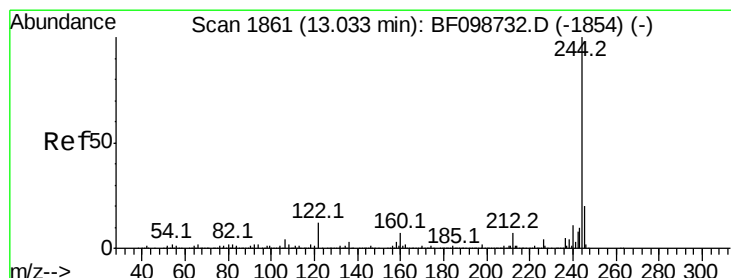
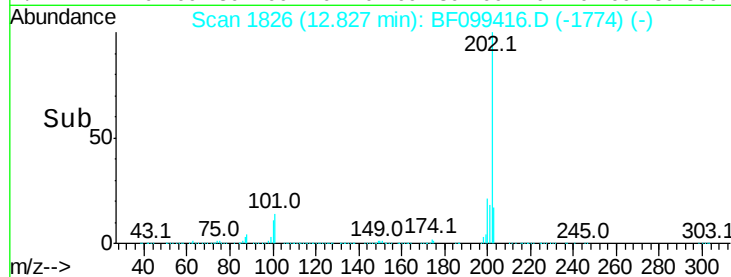
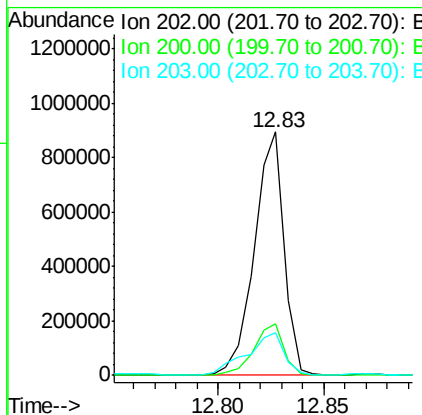
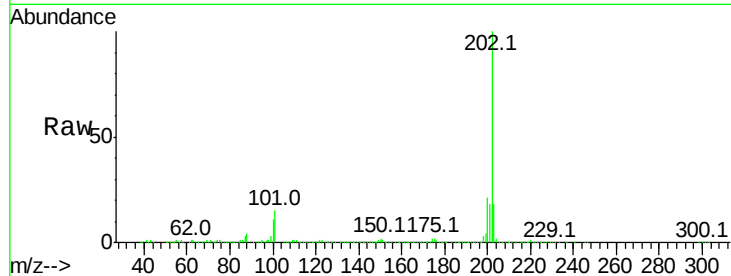
ClientSampleId :

7W-(1-2)

Tot Ion:	202	Resp:	871864
Ion Ratio		Lower	Upper
202	100		
200	21.2	17.4	26.2
203	17.6	14.3	21.5

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



#78

Terphenyl-d14

Concen: 57.964 ng

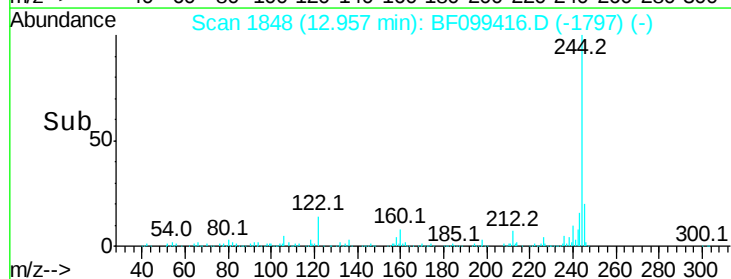
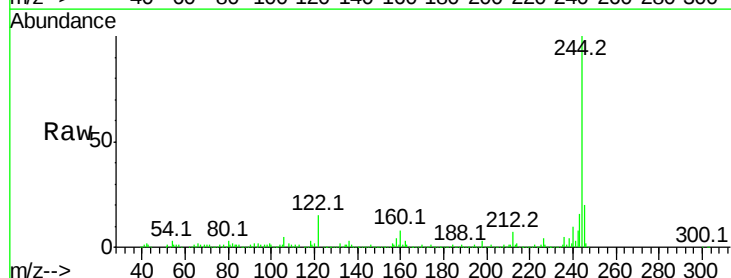
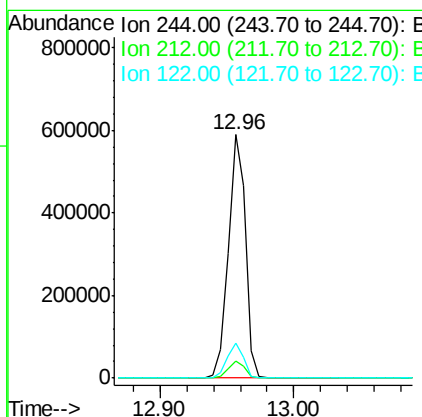
RT: 12.96 min Scan# 1848

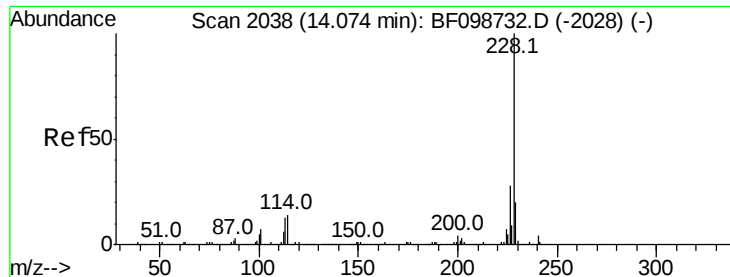
Delta R.T. -0.00 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Tgt Ion:	244	Resp:	532885
Ion Ratio		Lower	Upper
244	100		
212	7.1	5.4	8.0
122	14.5	11.0	16.4





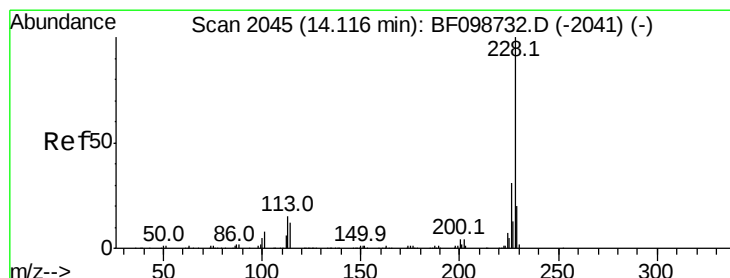
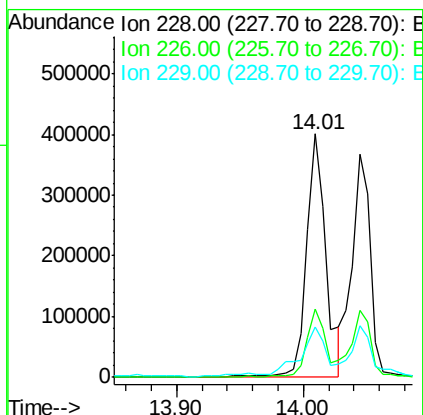
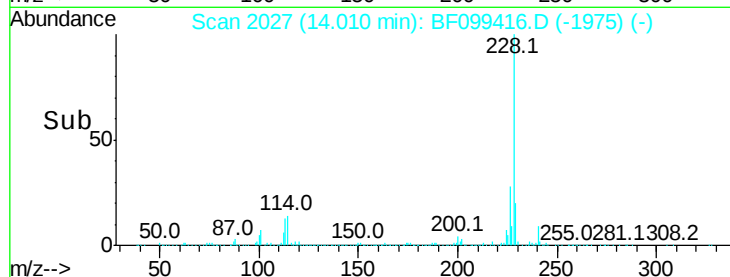
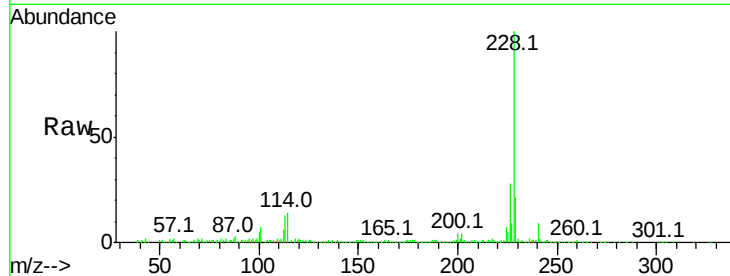
#80
Benzo(a)anthracene
Concen: 33.325 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.01 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Instrument :
BNA_F
ClientSampled :
7W-(1-2)

Tot Ion	Ratio	Resp	Lower	Upper
228	100	421896		
226	27.8		22.6	33.8
229	20.8		15.8	23.6

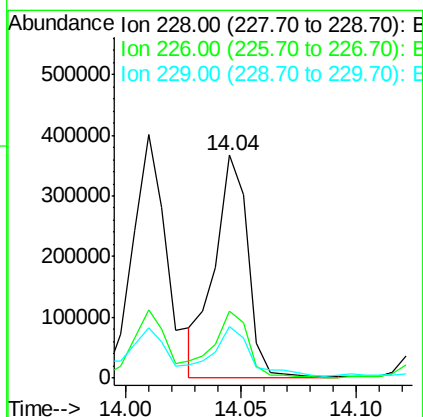
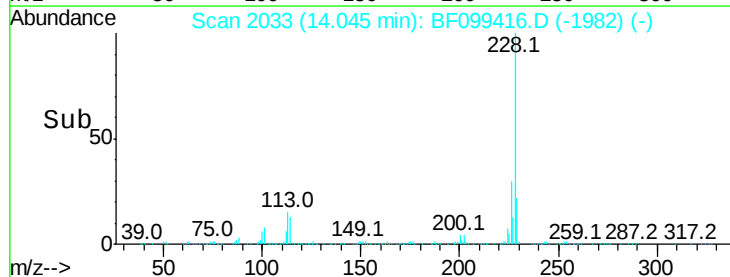
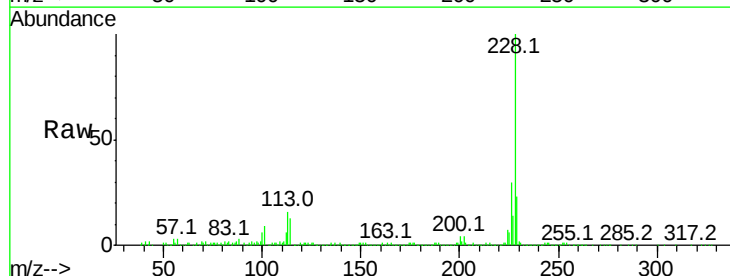
Manual Integrations
APPROVED

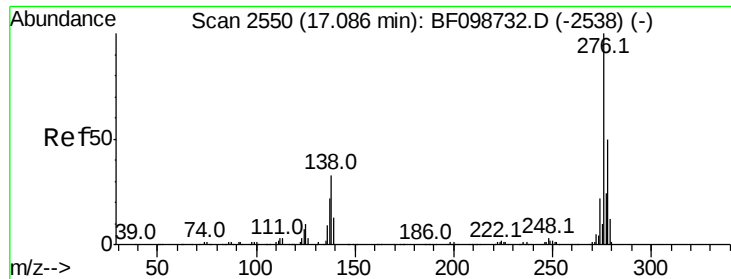
Sohil
10/13/2017 3:06:38 PM



#82
Chrysene
Concen: 30.300 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.00 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	365206		
226	30.2		25.0	37.6
229	22.9		16.2	24.4





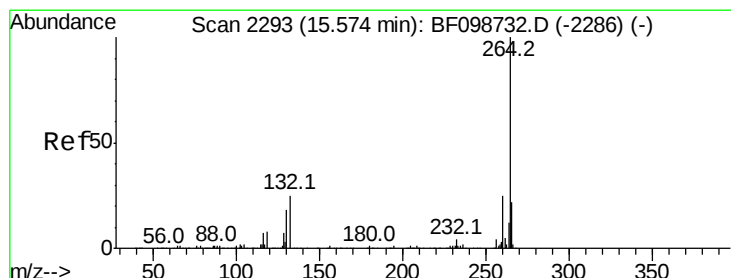
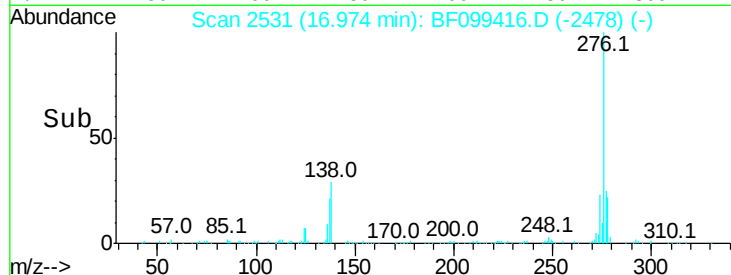
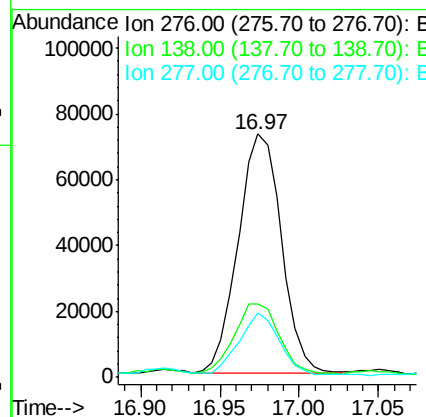
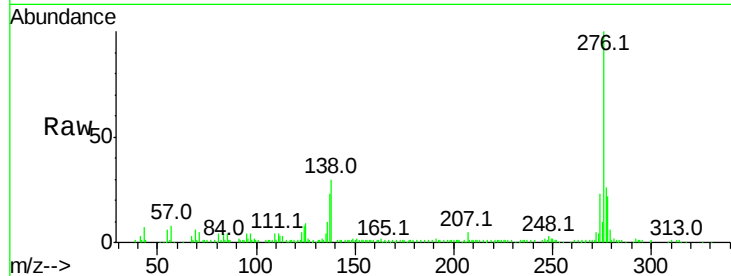
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.278 ng
 RT: 16.97 min Scan# 2531
 Delta R.T. 0.01 min
 Lab File: BF099416.D
 Acq: 13 Oct 2017 1:10

Instrument :
 BNA_F
 ClientSampleId :
 7W-(1-2)

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.1	25.0	37.6
277	24.2	20.1	30.1

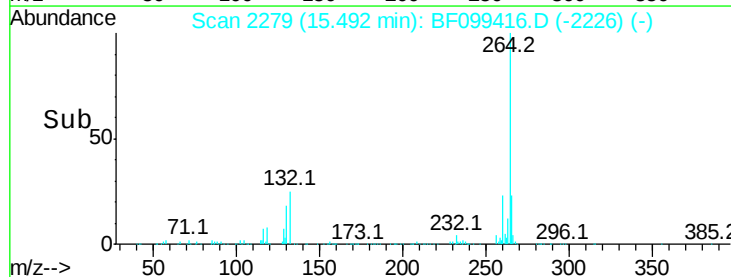
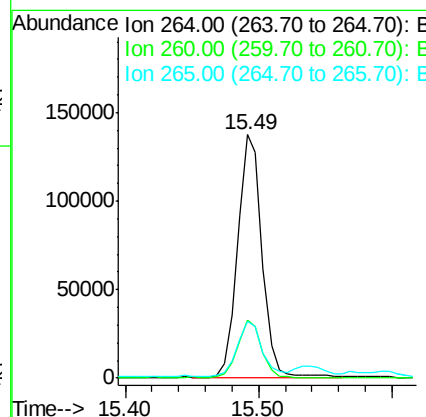
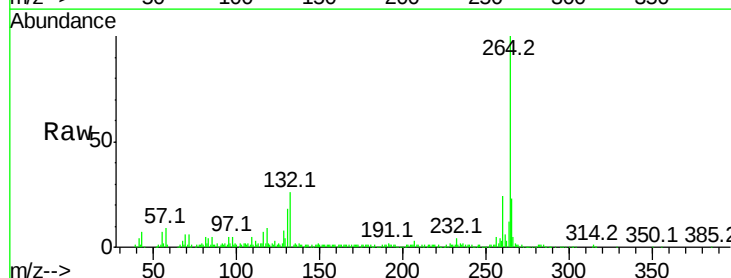
Manual Integrations
 APPROVED

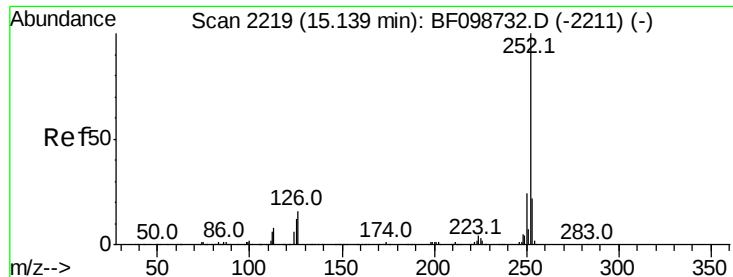
Sohil
 10/13/2017 3:06:38 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. 0.01 min
 Lab File: BF099416.D
 Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	23.5	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 38.718 ng m

RT: 15.06 min Scan# 2206

Delta R.T. 0.01 min

Lab File: BF099416.D

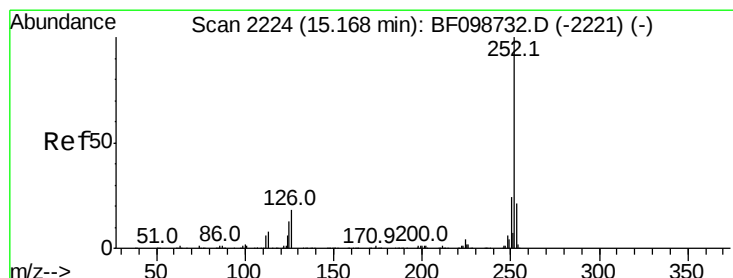
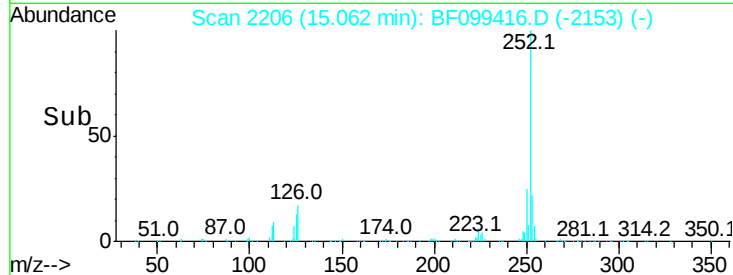
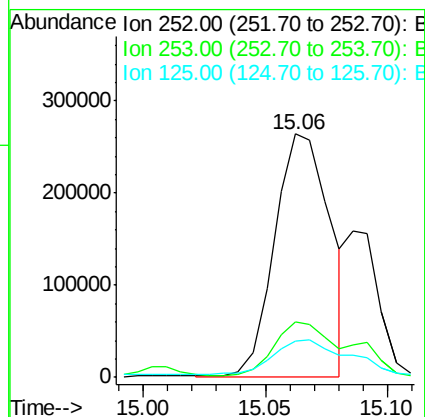
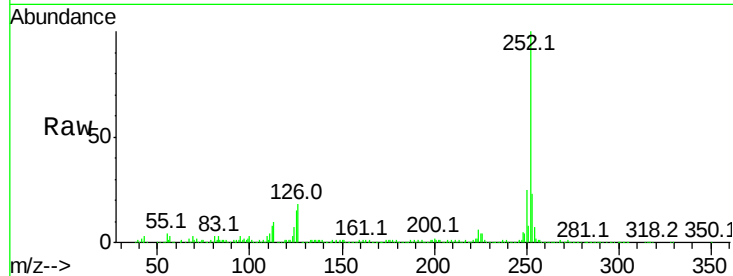
Acq: 13 Oct 2017 1:10

Instrument :
BNA_F
ClientSampleId :
7W-(1-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	14.9	9.0	13.6

Manual Integrations
APPROVED

Sohil
10/13/2017 3:06:38 PM



#88

Benzo(k)fluoranthene

Concen: 13.544 ng m

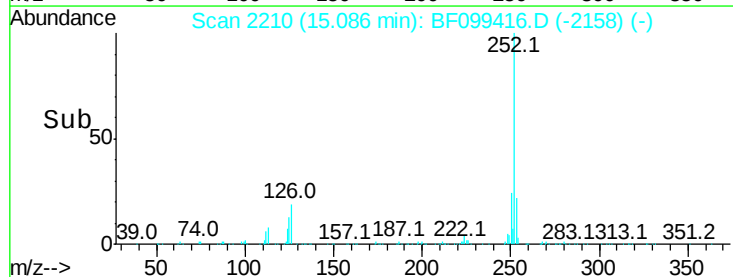
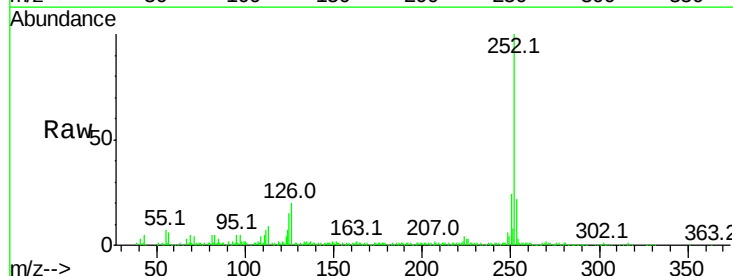
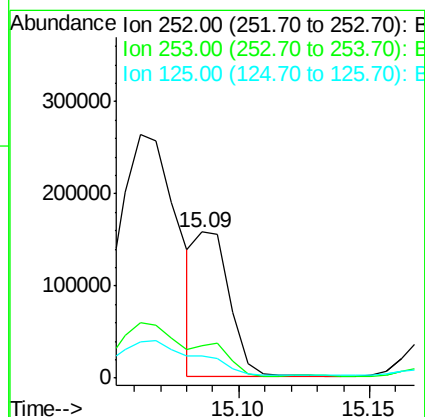
RT: 15.09 min Scan# 2210

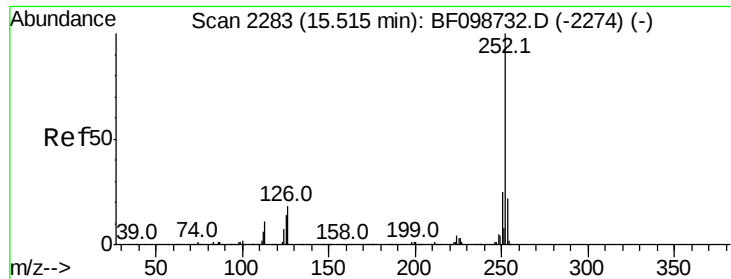
Delta R.T. 0.01 min

Lab File: BF099416.D

Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	14.9	10.2	15.2





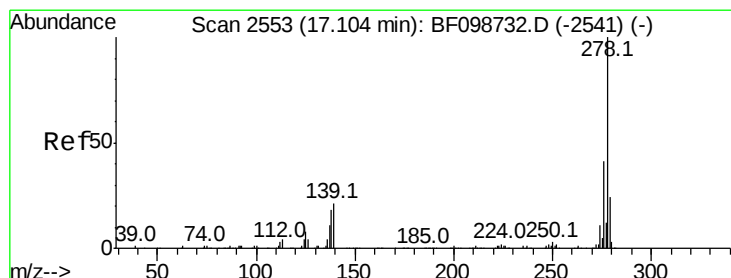
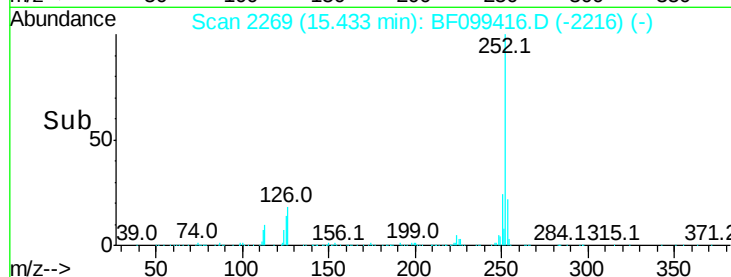
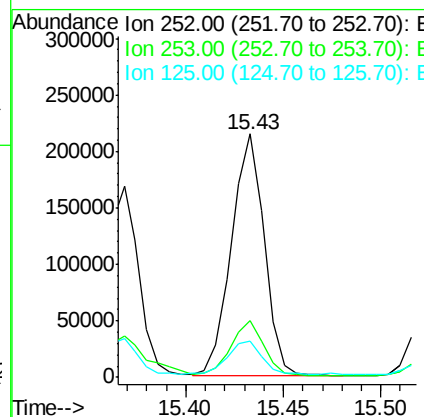
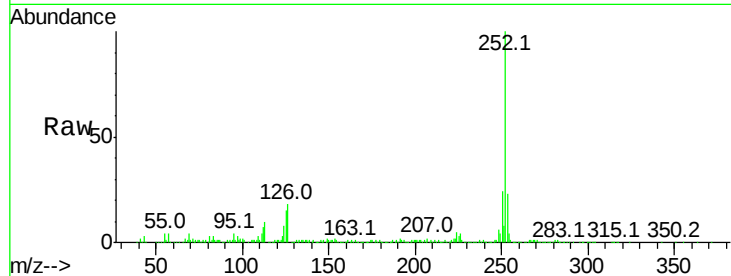
#89
Benzo(a)pyrene
Concen: 25.705 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.01 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Instrument :
BNA_F
ClientSampled :
7W-(1-2)

Tot Ion	Ratio	Resp	Lower	Upper
252	100	252716		
253	23.2	17.1	25.7	
125	15.0	9.8	14.6	

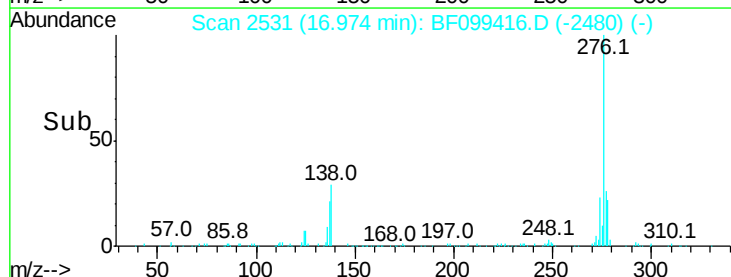
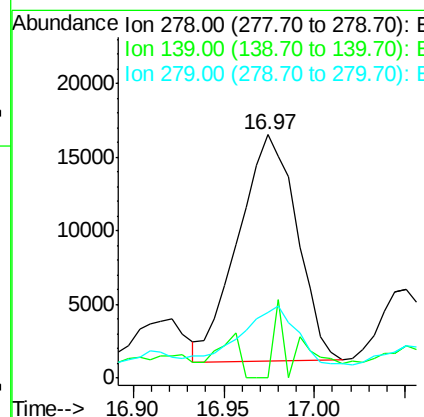
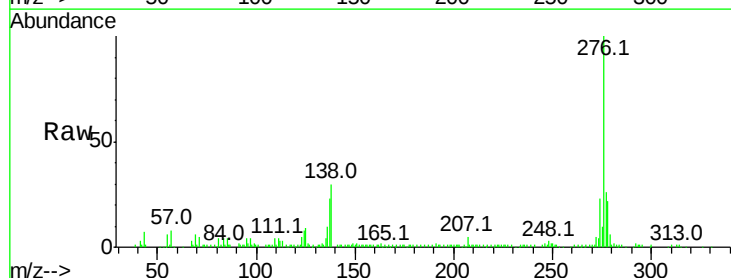
Manual Integrations
APPROVED

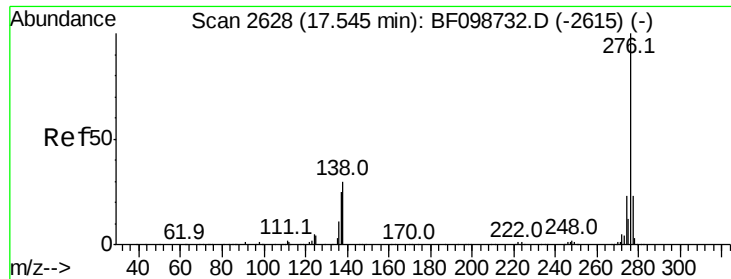
Sohil
10/13/2017 3:06:38 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.389 ng
RT: 16.97 min Scan# 2531
Delta R.T. -0.00 min
Lab File: BF099416.D
Acq: 13 Oct 2017 1:10

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	34532		
139	0.0	15.9	23.9	
279	26.8	19.0	28.4	





#91
 Benzo(a,h,i)perylene
 Concen: 17.102 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. 0.02 min
 Lab File: BF099416.D
 Acq: 13 Oct 2017 1:10

Instrument :
 BNA_F
 ClientSampleId :
 7W-(1-2)

Tot Ion:	276	Resp:	133010
Ion Ratio		Lower	Upper
276	100		
277	24.6	17.9	26.9
138	30.0	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 10/13/2017 3:06:38 PM

