

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
 Data File : BF108221.D
 Acq On : 17 Aug 2018 3:15
 Operator : JU/SJ
 Sample : J4501-07 2X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RA-081318-SSW-45-022

Manual Integrations
 APPROVED

Sohil
 8/17/2018 5:14:58 PM

Quant Time: Aug 17 15:21:45 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.01	152	161529	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	585336	20.00	ng	0.00
38) Acenaphthene-d10	10.06	164	260672	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	466728	20.00	ng	0.00
75) Chrysene-d12	14.22	240	383004	20.00	ng	0.00
86) Perylene-d12	15.79	264	288696	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	444580	49.83	ng	0.00
7) Phenol-d6	6.63	99	602459	50.81	ng	0.00
23) Nitrobenzene-d5	7.57	82	387002	36.89	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	118891	45.72	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	692706	42.66	ng	0.00
78) Terphenyl-d14	13.15	244	619316	41.11	ng	0.00
Target Compounds						
49) Dimethylphthalate	9.76	163	51005	2.809	ng	Qvalue # 98
51) Acenaphthene	10.09	154	55695	3.786	ng	99
54) Dibenzofuran	10.27	168	48343	2.269	ng	98
57) Fluorene	10.61	166	52756	3.127	ng	98
70) Phenanthrene	11.58	178	683275	31.038	ng	100
71) Anthracene	11.63	178	188099	8.337	ng	99
72) Carbazole	11.78	167	67300	3.357	ng	# 93
73) Di-n-butylphthalate	12.10	149	57578	2.536	ng	# 93
74) Fluoranthene	12.79	202	972350	40.472	ng	95
77) Pyrene	13.02	202	850906	35.092	ng	99
80) Benzo(a)anthracene	14.21	228	479893	21.833	ng	96
82) Chrysene	14.25	228	479290m	23.784	ng	
85) Indeno(1,2,3-cd)pyrene	17.41	276	135380	7.754	ng	# 87
87) Benzo(b)fluoranthene	15.32	252	467488m	27.100	ng	
88) Benzo(k)fluoranthene	15.35	252	135479m	8.543	ng	
89) Benzo(a)pyrene	15.72	252	266308	17.239	ng	# 91
90) Dibenzo(a,h)anthracene	17.42	278	37413	2.927	ng	# 75
91) Benzo(g,h,i)perylene	17.91	276	119942	9.530	ng	# 92

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



#1

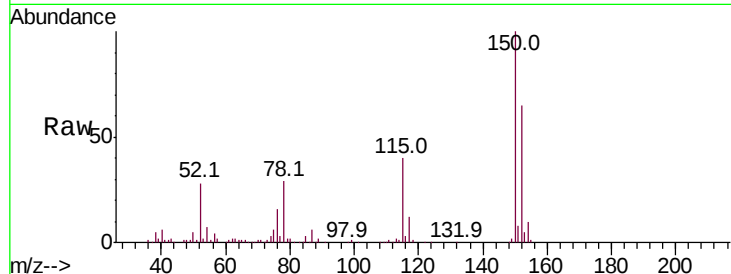
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.01 min Scan# 795
Delta R.T. 0.00 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.6	186.8
115	61.0	50.1	75.1

Manual Integrations
APPROVED

Sohil
8/17/2018 5:14:58 PM

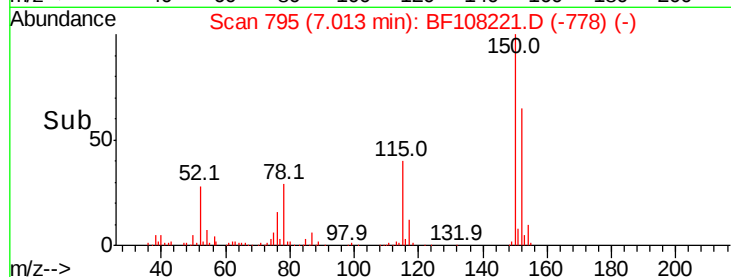
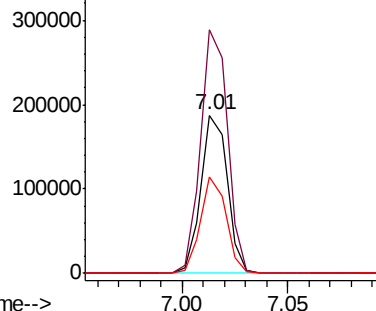


Abundance

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: 49.830 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

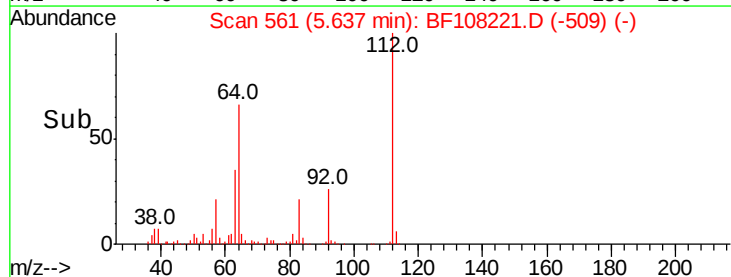
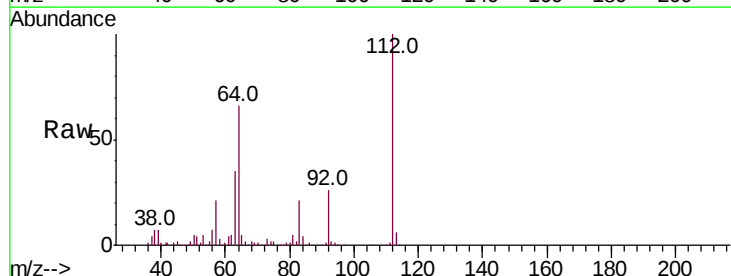
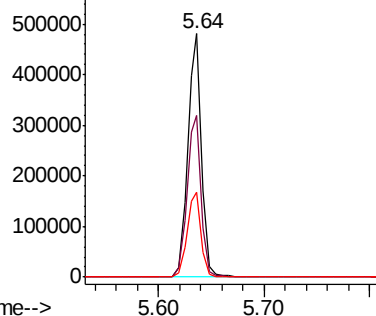
Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.2	47.9	71.9
63	34.9	23.7	35.5

Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 50.814 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108221.D

Acq: 17 Aug 2018 3:15

Instrument :

BNA_F

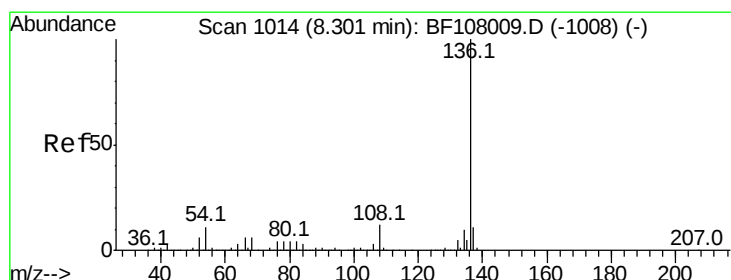
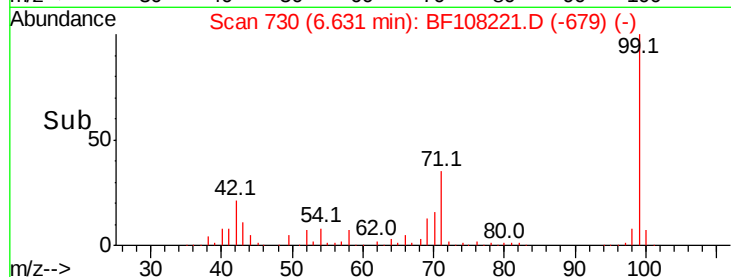
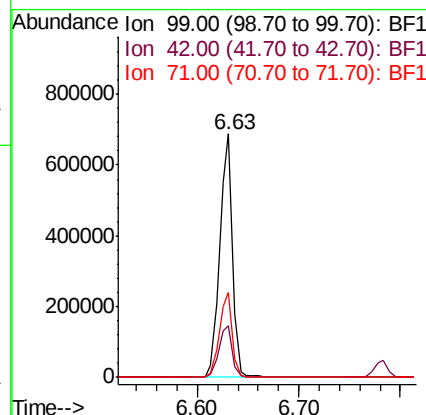
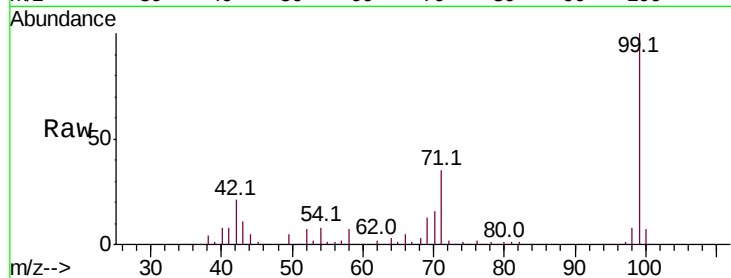
ClientSampleId :

RA-081318-SSW-45-022

Tot Ion:	99	Resp:	602459
Ion Ratio	Lower	Upper	
99	100		
42	21.3	14.5	21.7
71	34.7	25.4	38.0

Manual Integrations
APPROVED

Sohil
8/17/2018 5:14:58 PM



#21

Naphthalene-d8

Concen: 20.000 ng

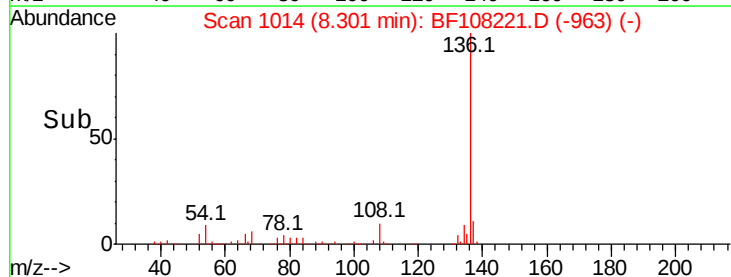
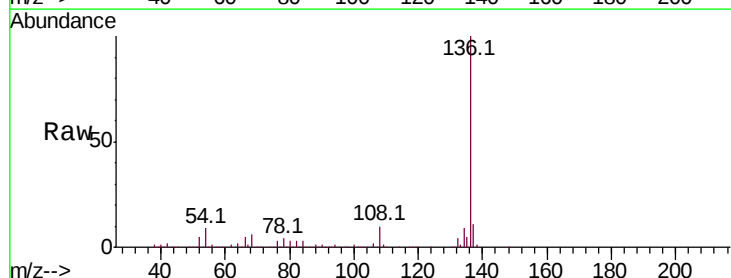
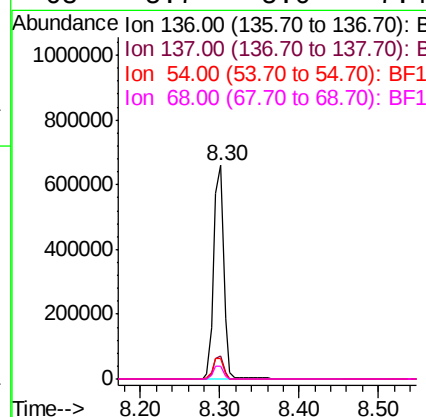
RT: 8.30 min Scan# 1014

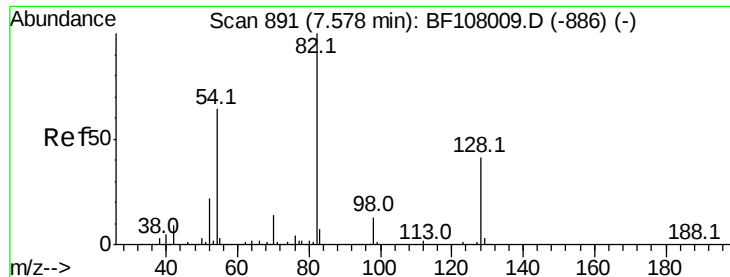
Delta R.T. 0.00 min

Lab File: BF108221.D

Acq: 17 Aug 2018 3:15

Tgt Ion:	136	Resp:	585336
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	9.4	6.6	9.8
68	5.7	5.0	7.4





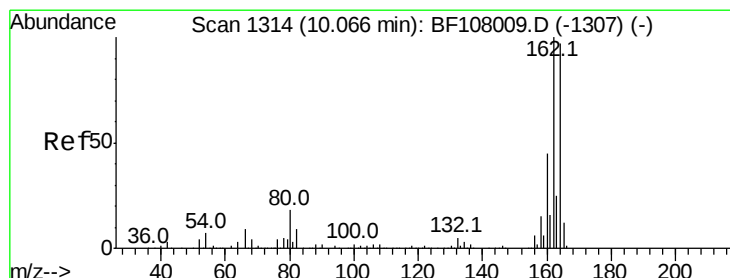
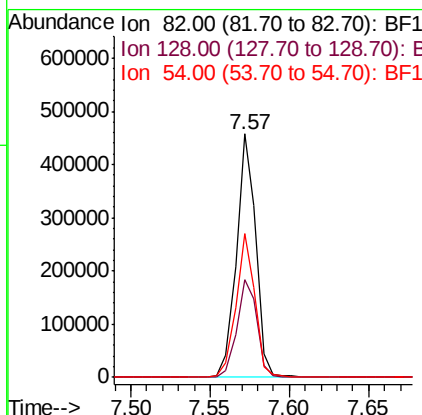
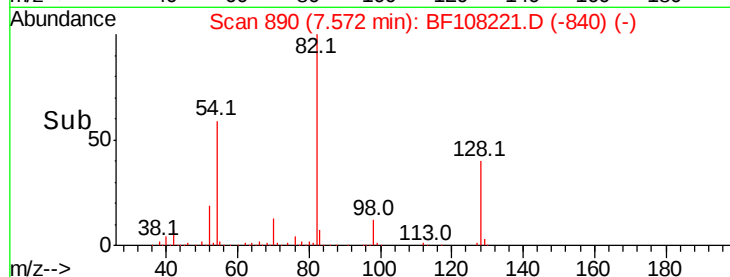
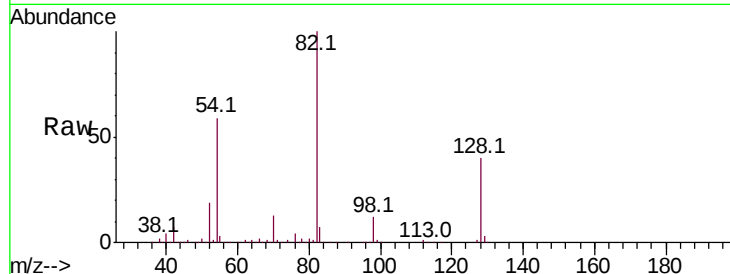
#23
Nitrobenzene-d5
Concen: 36.894 ng
RT: 7.57 min Scan# 890
Delta R.T. -0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.3	36.1	54.1
54	59.2	41.4	62.2

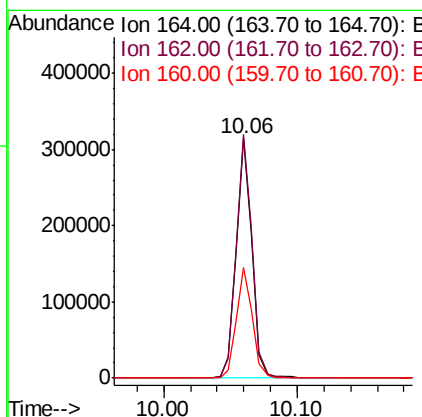
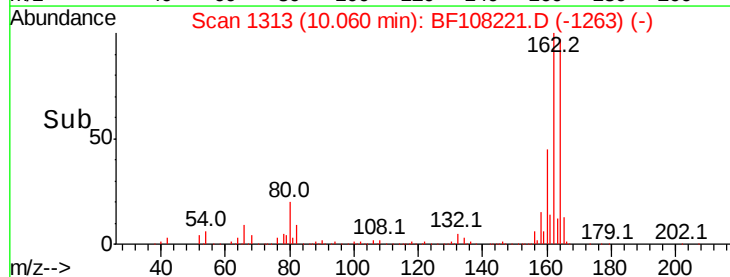
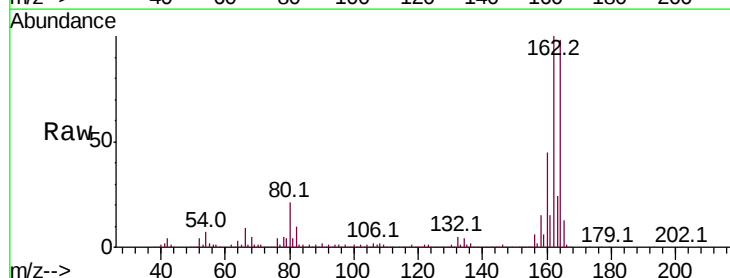
Manual Integrations
APPROVED

Sohil
8/17/2018 5:14:58 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.06 min Scan# 1313
Delta R.T. -0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	86.1	129.1
160	46.1	38.3	57.5





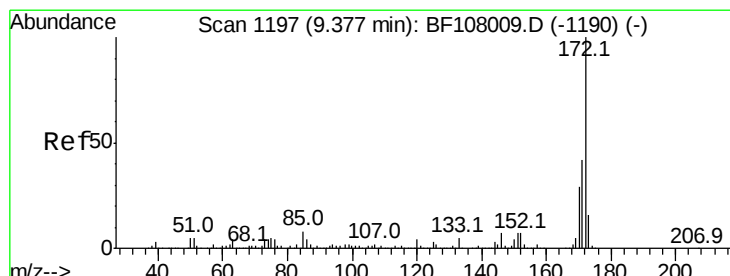
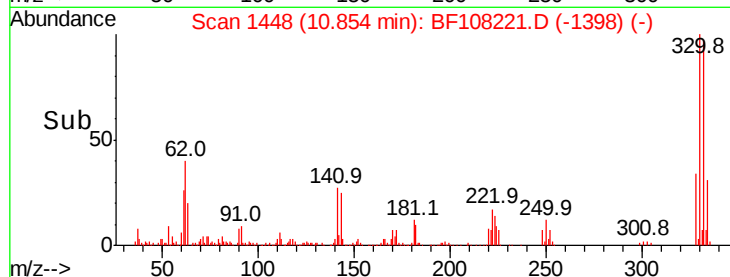
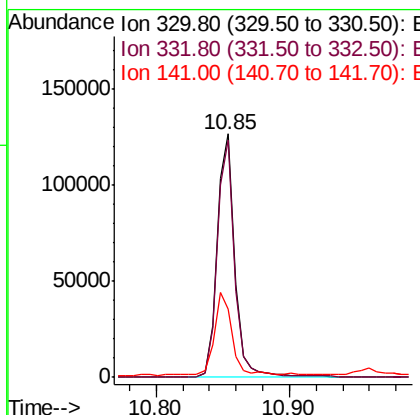
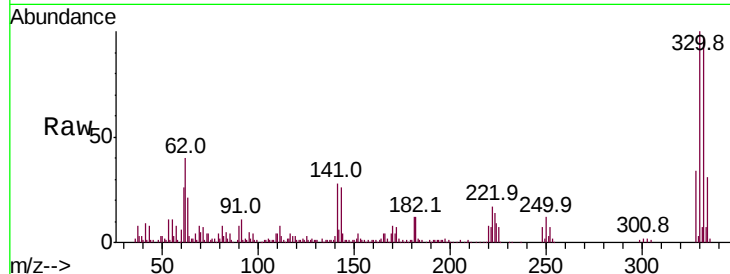
#41
 2,4,6-Tribromophenol
 Concen: 45.725 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF108221.D
 Acq: 17 Aug 2018 3:15

Instrument :
 BNA_F
 ClientSampleId :
 RA-081318-SSW-45-022

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.4	77.0	115.6	
141	33.0	29.9	44.9	

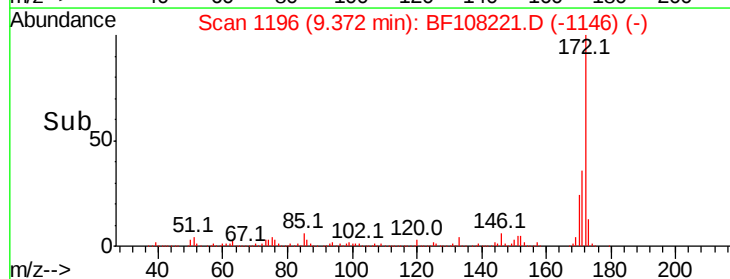
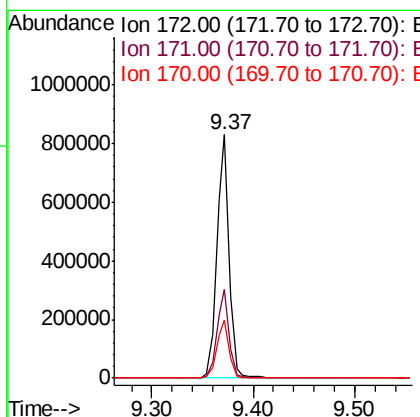
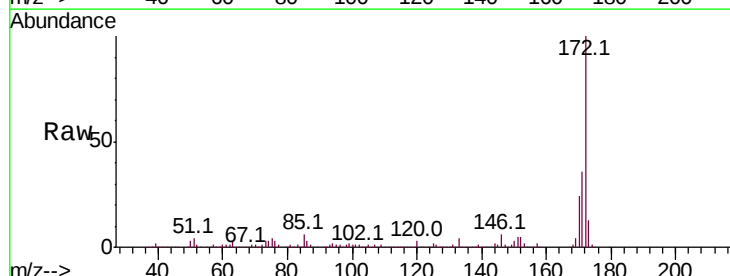
Manual Integrations
 APPROVED

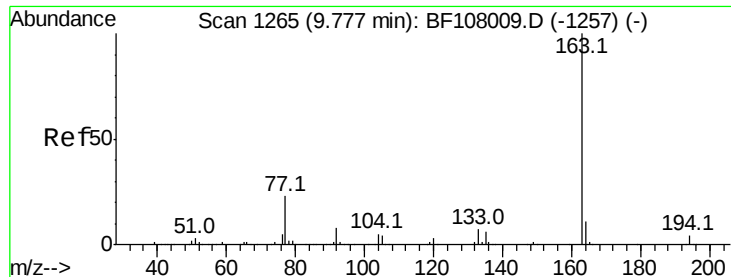
Sohil
 8/17/2018 5:14:58 PM



#44
 2-Fluorobiphenyl
 Concen: 42.664 ng
 RT: 9.37 min Scan# 1196
 Delta R.T. -0.01 min
 Lab File: BF108221.D
 Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.2	29.7	44.5	
170	24.0	19.6	29.4	





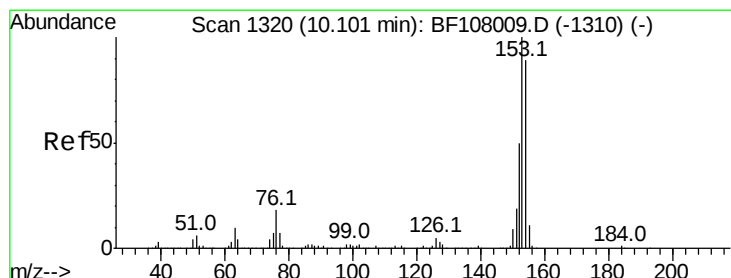
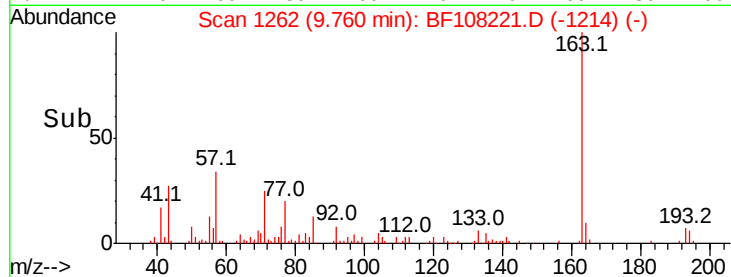
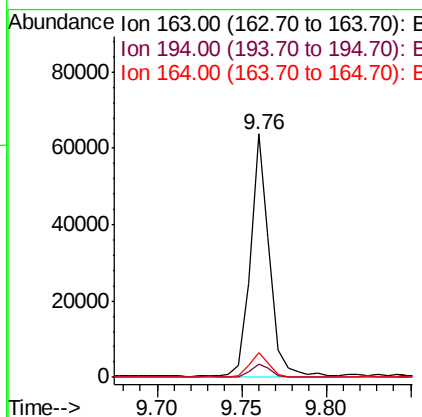
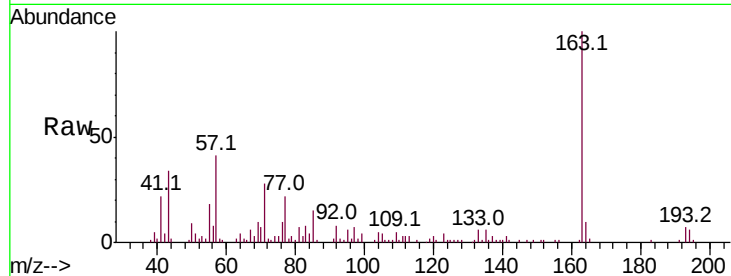
#49
Dimethylphthalate
Concen: 2.809 ng
RT: 9.76 min Scan# 1262
Delta R.T. -0.02 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
163	100		
194	5.5	2.7	4.1#
164	10.0	8.2	12.2

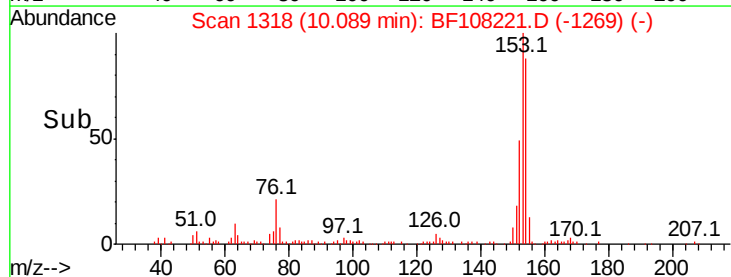
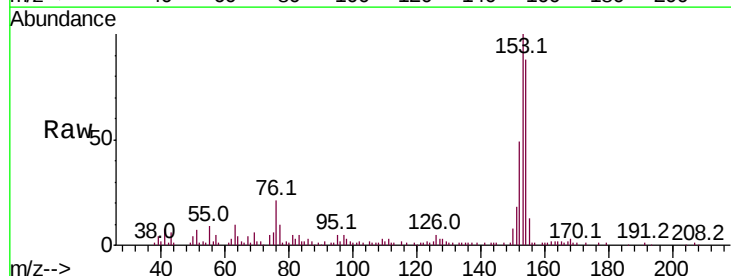
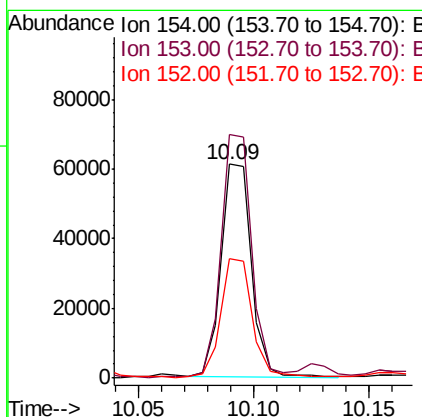
Manual Integrations
APPROVED

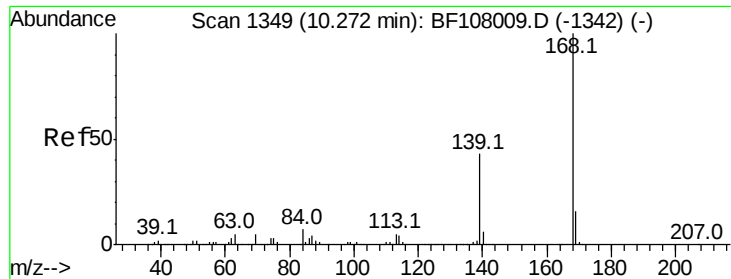
Sohil
8/17/2018 5:14:58 PM



#51
Acenaphthene
Concen: 3.786 ng
RT: 10.09 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.8	91.2	136.8
152	55.7	43.8	65.8





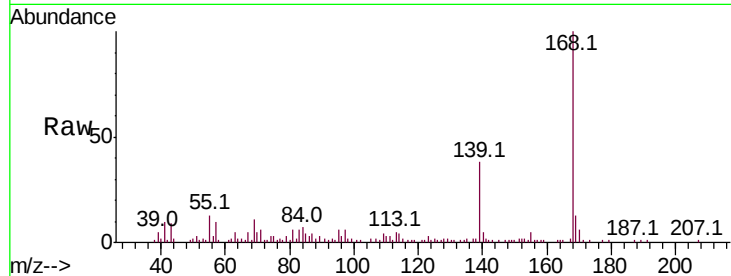
#54
Dibenzofuran
Concen: 2.269 ng
RT: 10.27 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.5	30.1	45.1
169	12.8	10.9	16.3

Manual Integrations
APPROVED

Sohil
8/17/2018 5:14:58 PM

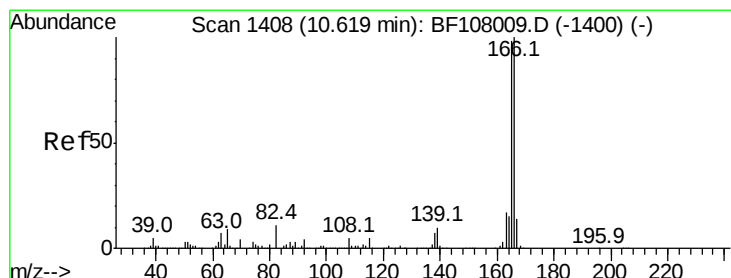
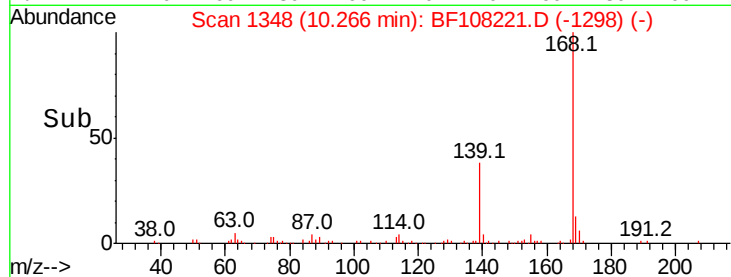
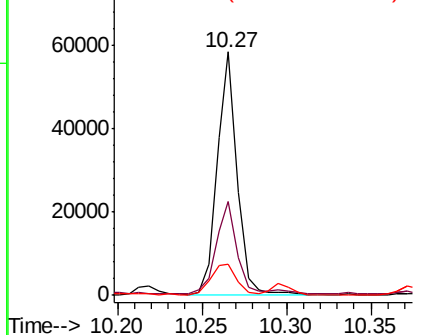


Abundance

Ion 168.00 (167.70 to 168.70): E

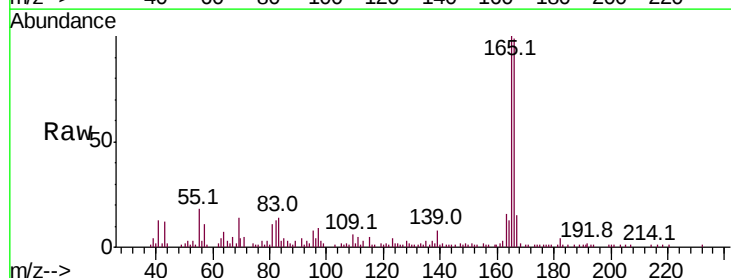
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57
Fluorene
Concen: 3.127 ng
RT: 10.61 min Scan# 1407
Delta R.T. -0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	15.4	10.6	16.0

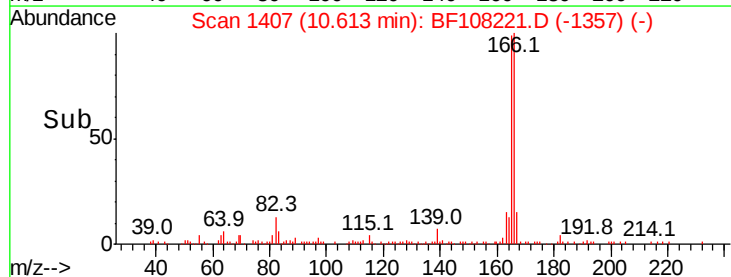
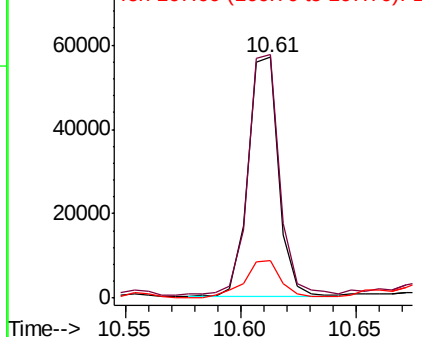


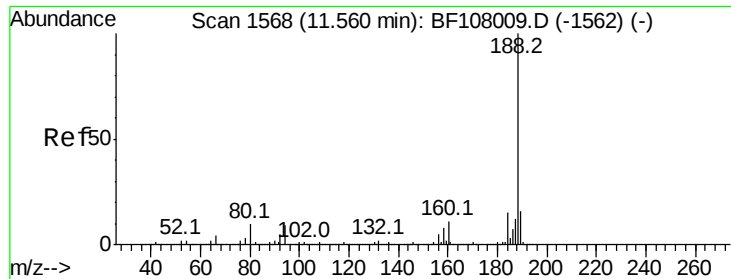
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





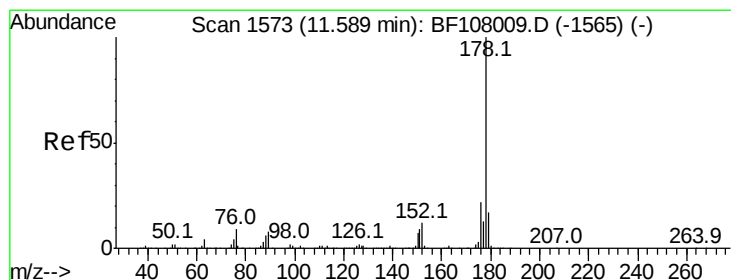
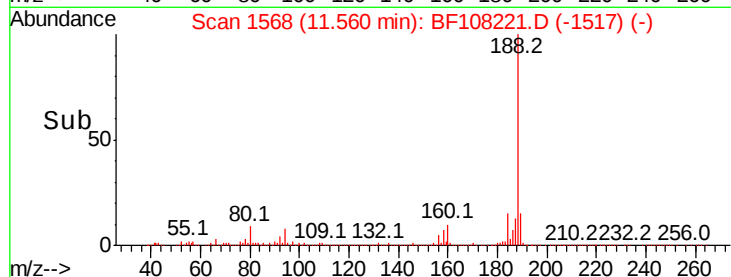
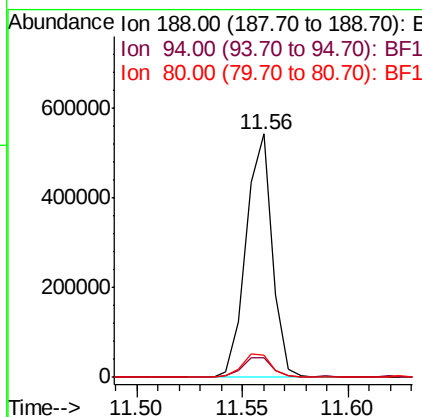
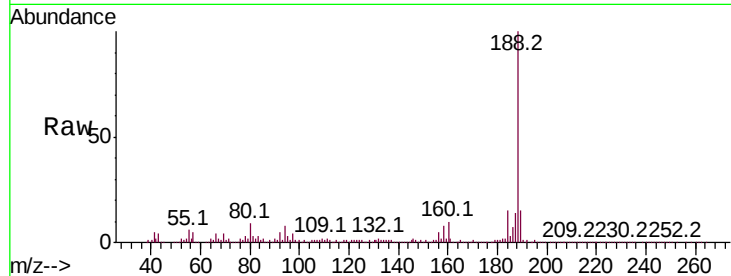
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.56 min Scan# 1568
Delta R.T. 0.00 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.0	8.5	12.7#
80	8.9	9.2	13.8#

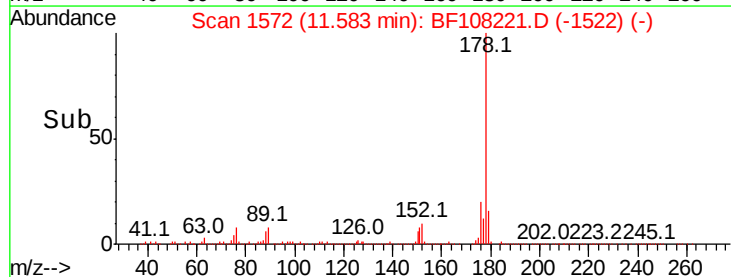
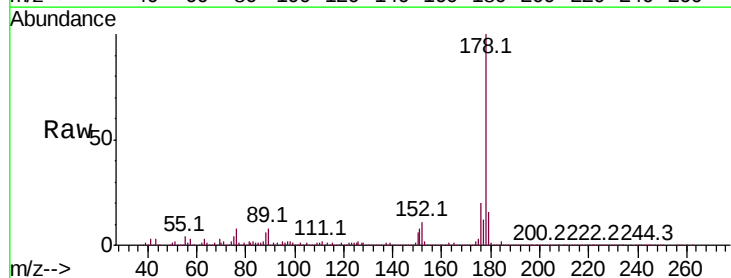
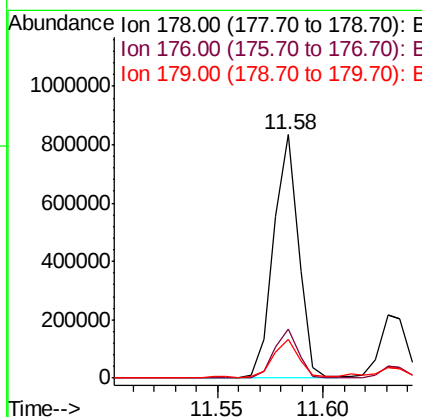
Manual Integrations
APPROVED

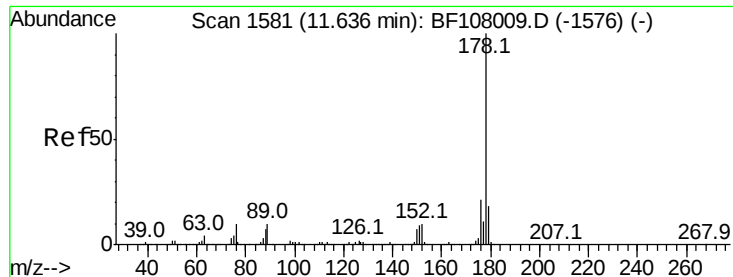
Sohil
8/17/2018 5:14:58 PM



#70
Phenanthrene
Concen: 31.038 ng
RT: 11.58 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.9	15.8	23.8
179	16.2	13.0	19.6





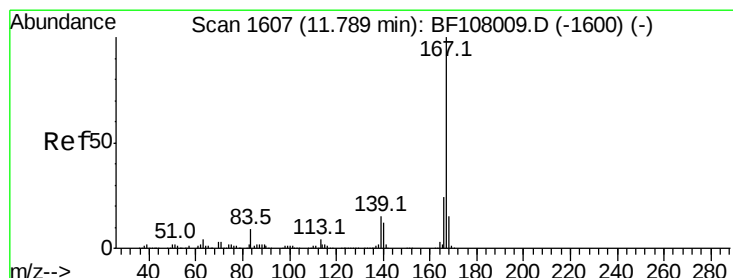
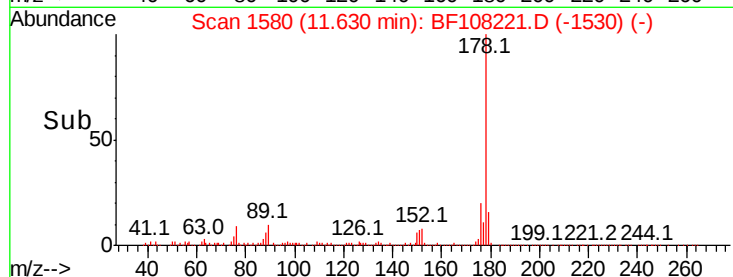
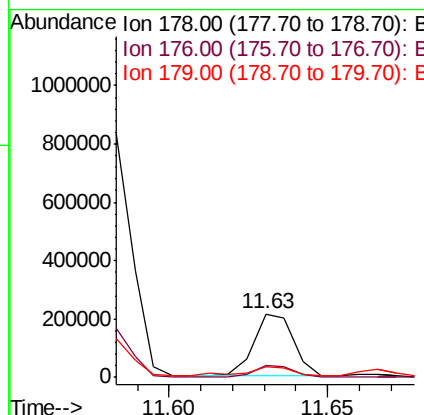
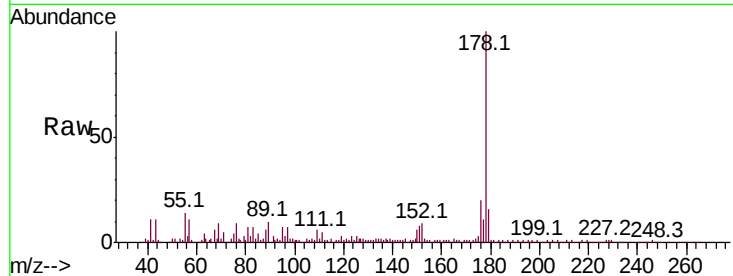
#71
 Anthracene
 Concen: 8.337 ng
 RT: 11.63 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: BF108221.D
 Acq: 17 Aug 2018 3:15

Instrument :
 BNA_F
 ClientSampleId :
 RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	16.4	12.6	19.0

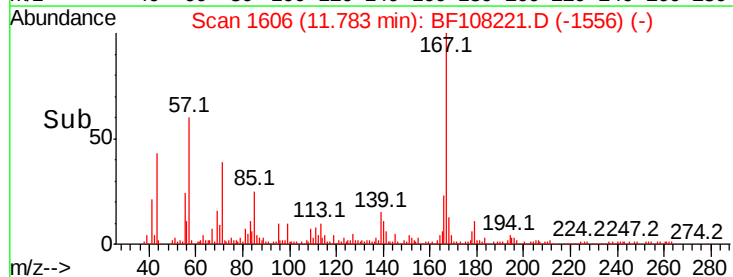
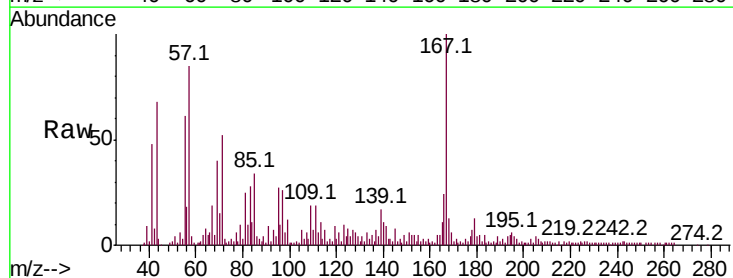
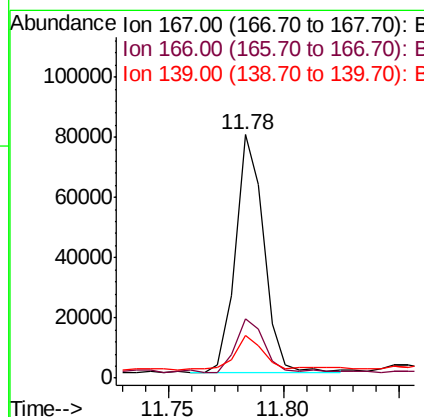
Manual Integrations
 APPROVED

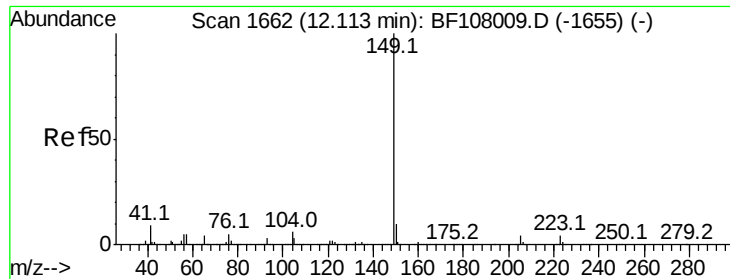
Sohil
 8/17/2018 5:14:58 PM



#72
 Carbazole
 Concen: 3.357 ng
 RT: 11.78 min Scan# 1606
 Delta R.T. -0.01 min
 Lab File: BF108221.D
 Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.3	17.6	26.4
139	17.4	10.9	16.3





#73

Di-n-butylphthalate

Concen: 2.536 ng

RT: 12.10 min Scan# 1660

Delta R.T. -0.01 min

Lab File: BF108221.D

Acq: 17 Aug 2018 3:15

Instrument :

BNA_F

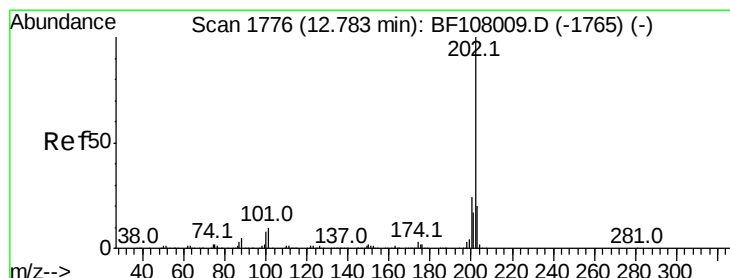
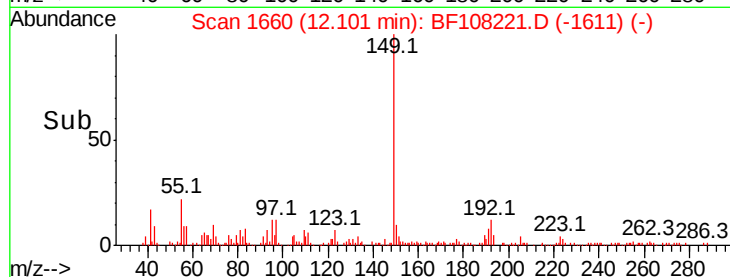
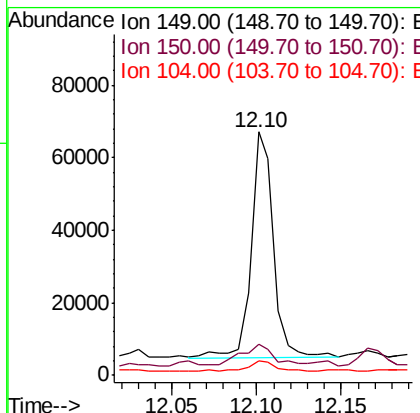
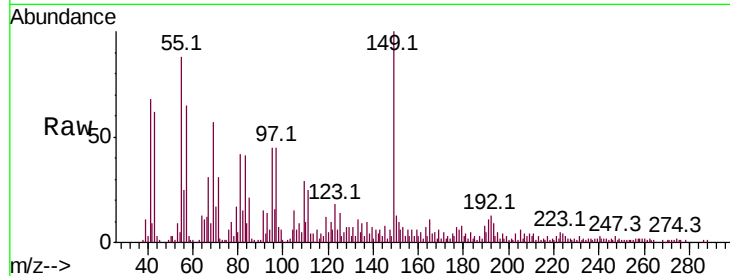
ClientSampleId :

RA-081318-SSW-45-022

Tot Ion:	149	Resp:	57578
Ion Ratio	Lower	Upper	
149	100		
150	12.6	7.8	11.6#
104	6.2	3.8	5.8#

Manual Integrations
APPROVED

Sohil
8/17/2018 5:14:58 PM



#74

Fluoranthene

Concen: 40.472 ng

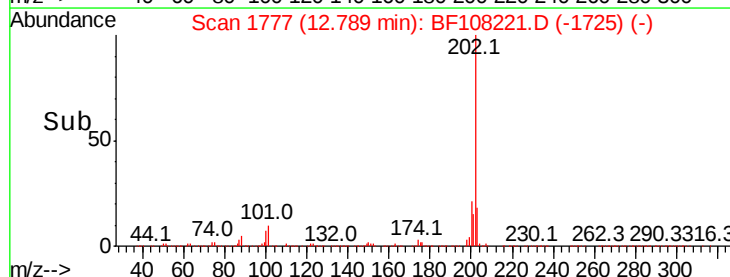
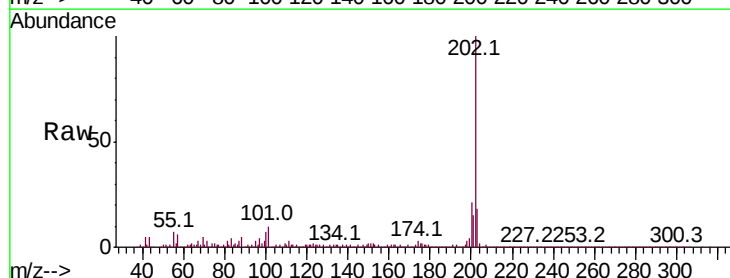
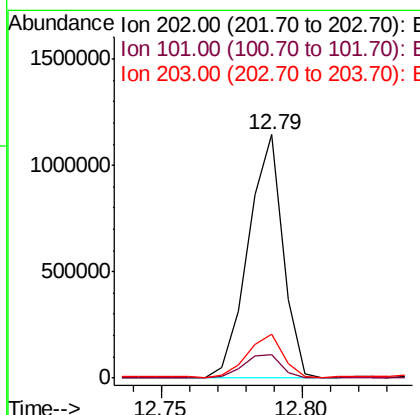
RT: 12.79 min Scan# 1777

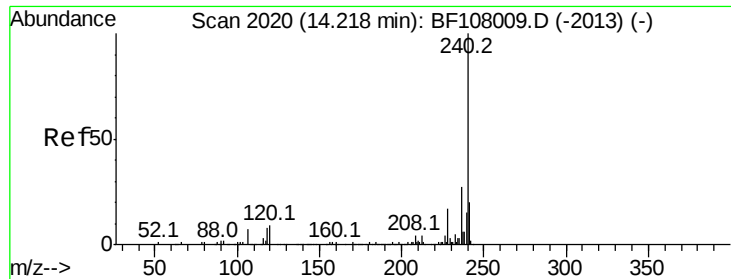
Delta R.T. 0.01 min

Lab File: BF108221.D

Acq: 17 Aug 2018 3:15

Tgt Ion:	202	Resp:	972350
Ion Ratio	Lower	Upper	
202	100		
101	9.8	0.0	34.1
203	18.1	0.0	38.1





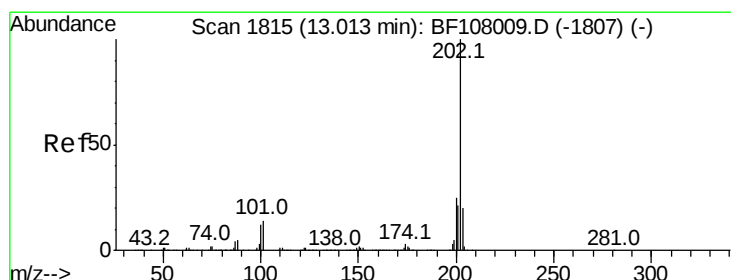
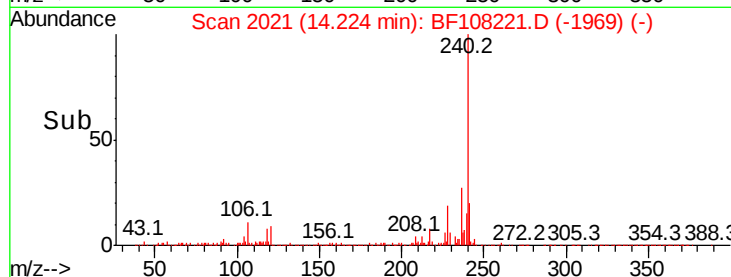
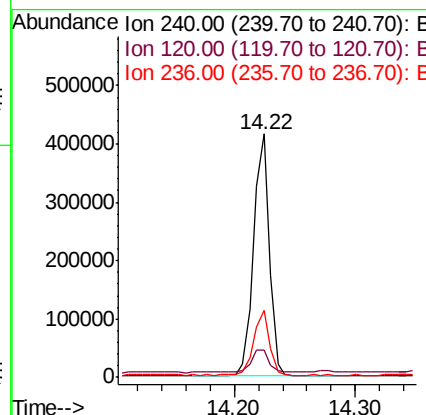
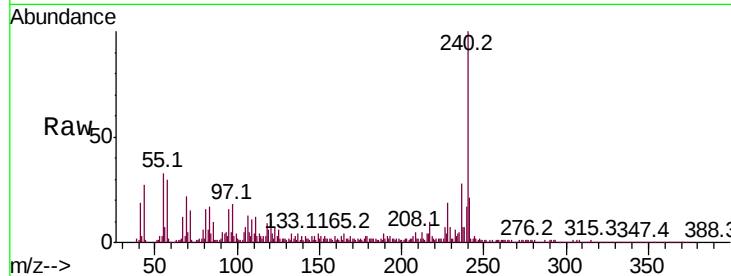
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.22 min Scan# 2021
Delta R.T. 0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.5	14.3
236	27.5	20.7	31.1

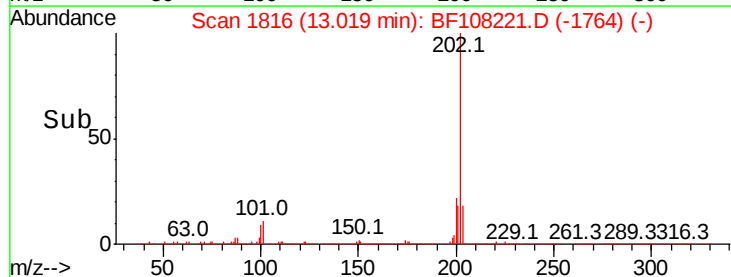
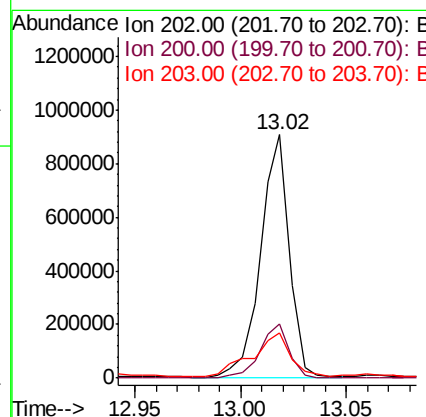
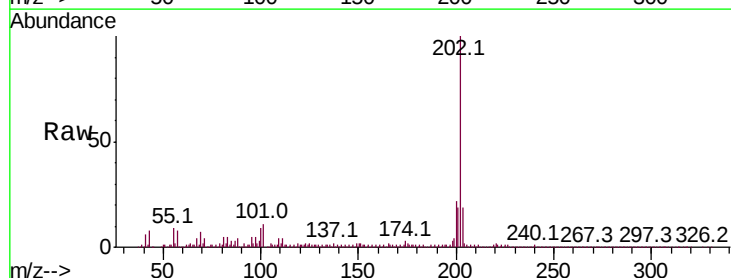
Manual Integrations
APPROVED

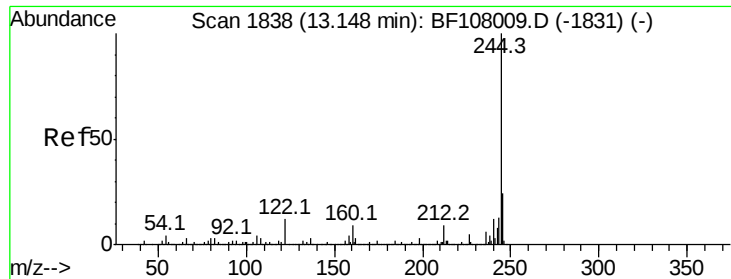
Sohil
8/17/2018 5:14:58 PM



#77
Pyrene
Concen: 35.092 ng
RT: 13.02 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2
203	18.8	14.3	21.5





#78

Terphenyl-d14

Concen: 41.113 ng

RT: 13.15 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF108221.D

Acq: 17 Aug 2018 3:15

Instrument :

BNA_F

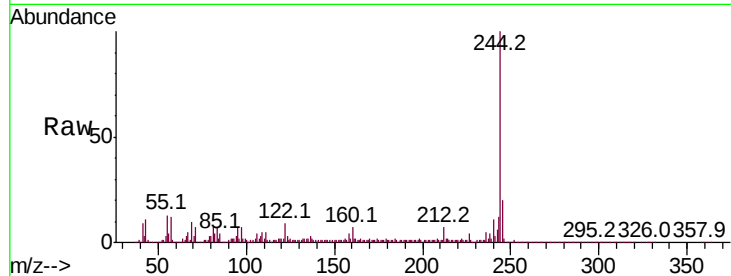
ClientSampleId :

RA-081318-SSW-45-022

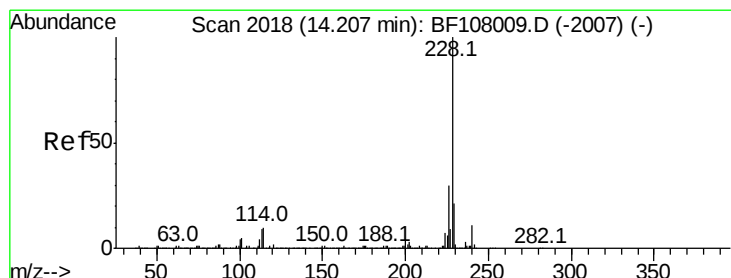
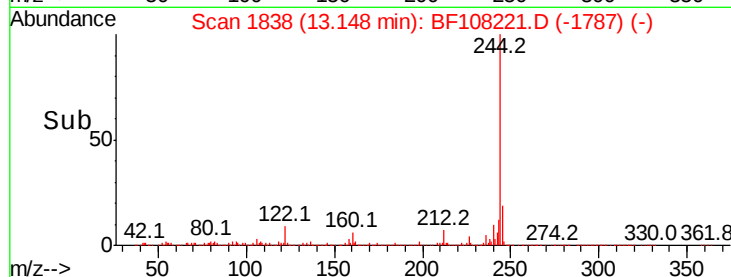
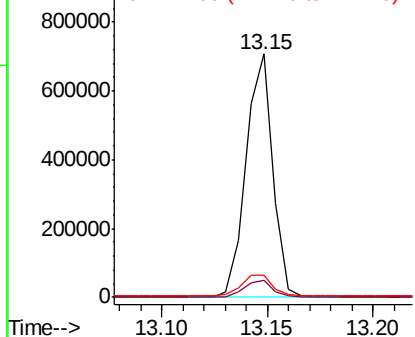
Tot Ion:	244	Resp:	619316
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.4	8.0
122	9.3	11.0	16.4

Manual Integrations
APPROVED

Sohil
8/17/2018 5:14:58 PM



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



#80

Benzo(a)anthracene

Concen: 21.833 ng

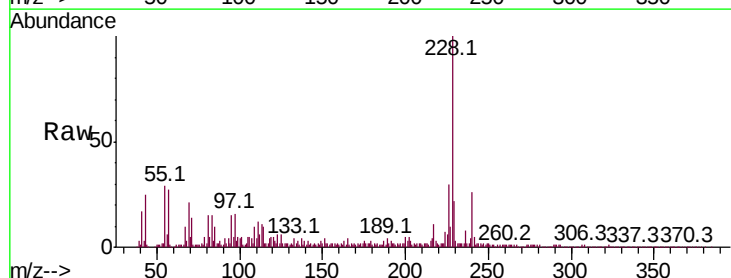
RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

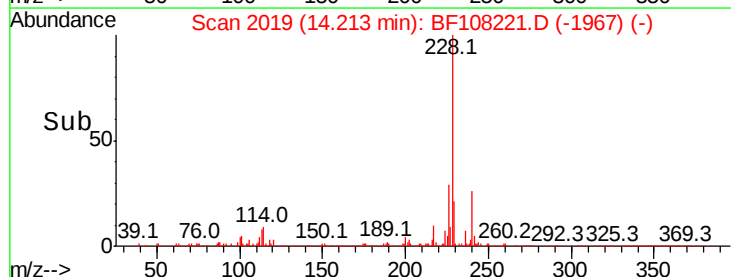
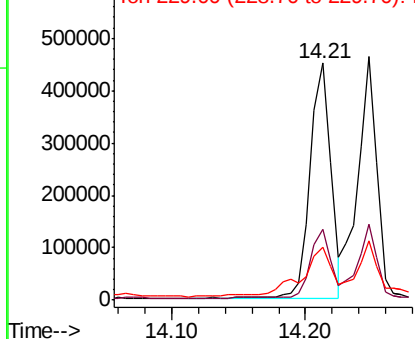
Lab File: BF108221.D

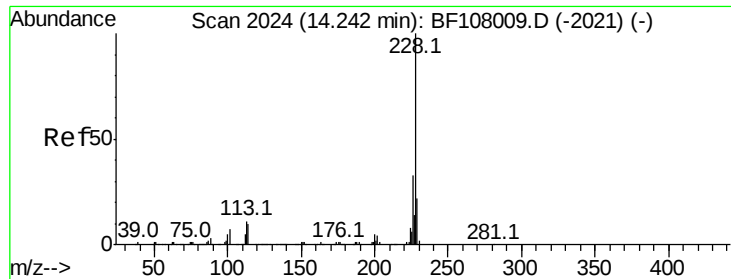
Acq: 17 Aug 2018 3:15

Tgt Ion:	228	Resp:	479893
Ion Ratio	Lower	Upper	
228	100		
226	29.6	22.6	33.8
229	22.4	15.8	23.6



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





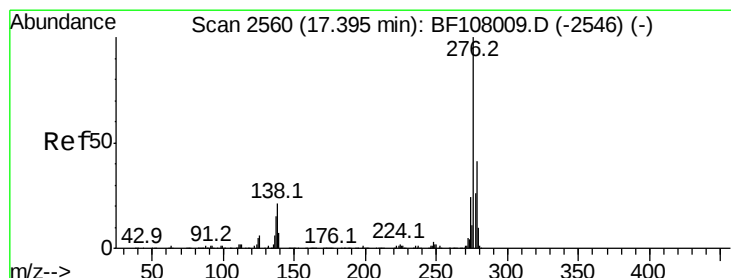
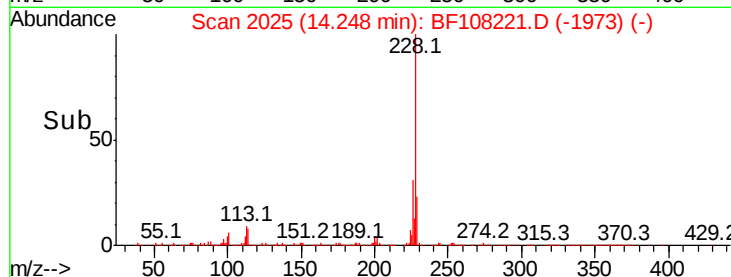
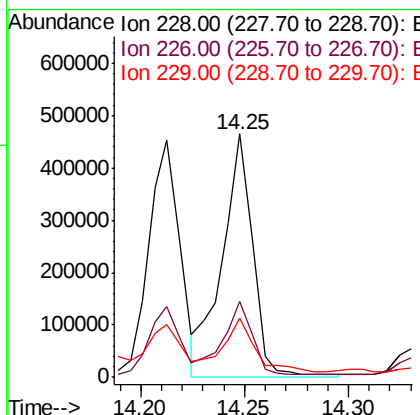
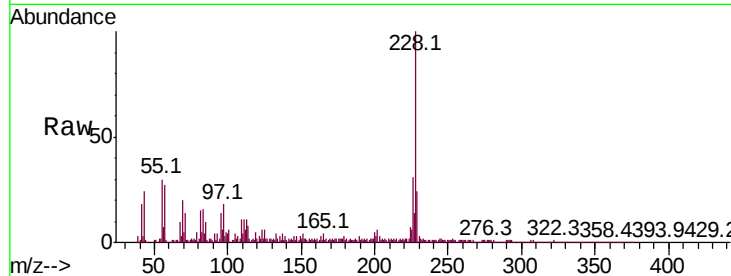
#82
Chrysene
Concen: 23.784 ng m
RT: 14.25 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion:	228	Resp:	479290
Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	24.2	16.2	24.4

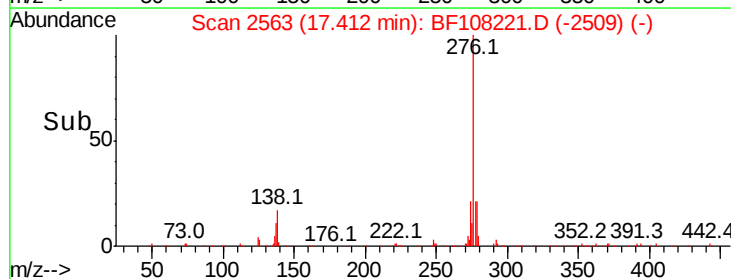
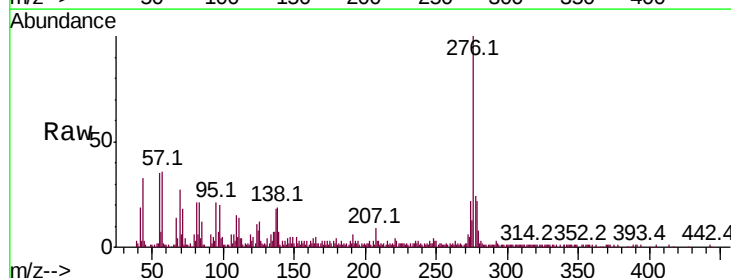
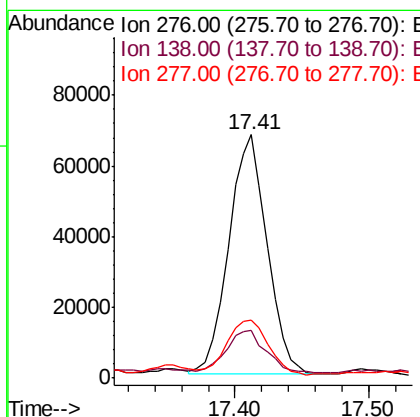
Manual Integrations
APPROVED

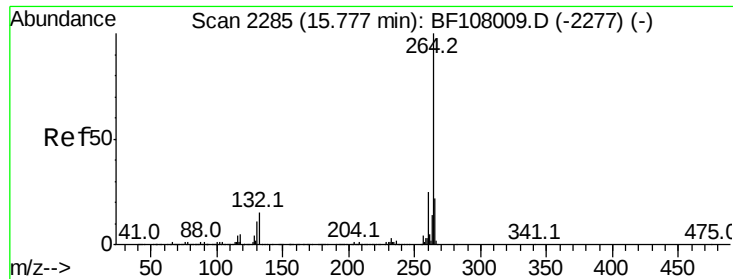
Sohil
8/17/2018 5:14:58 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 7.754 ng
RT: 17.41 min Scan# 2563
Delta R.T. 0.02 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion:	276	Resp:	135380
Ion	Ratio	Lower	Upper
276	100		
138	18.3	25.0	37.6#
277	24.9	20.1	30.1





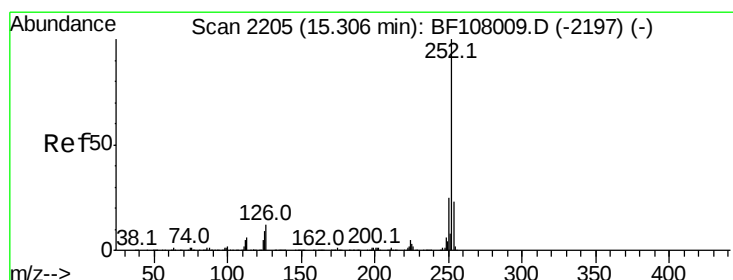
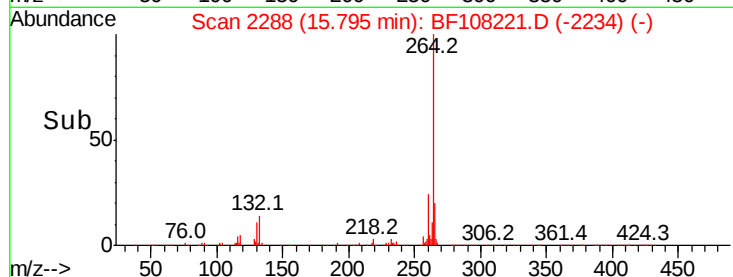
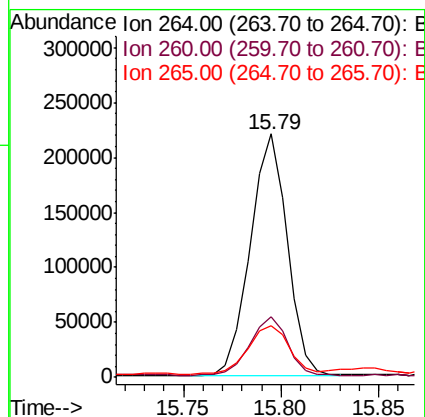
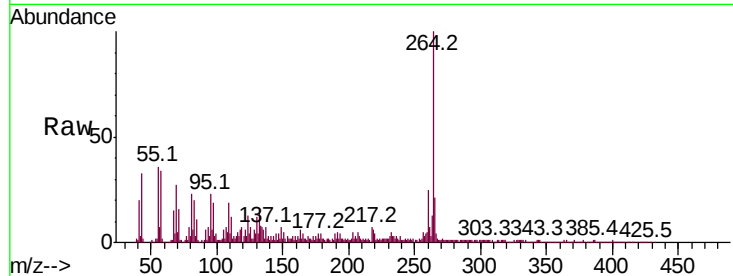
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.79 min Scan# 2288
Delta R.T. 0.02 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.8	19.2	28.8	
265	21.5	17.5	26.3	

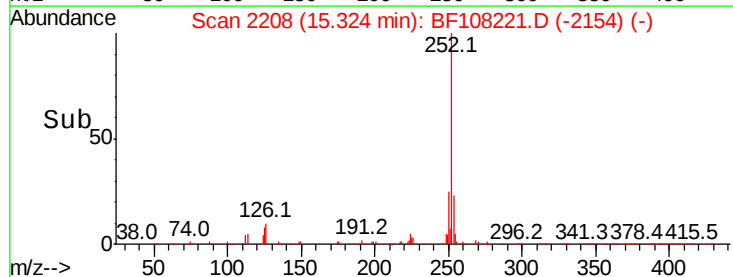
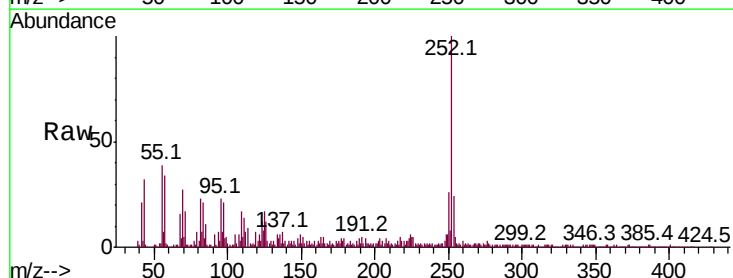
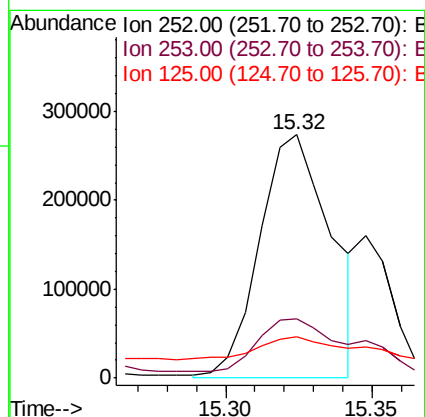
Manual Integrations
APPROVED

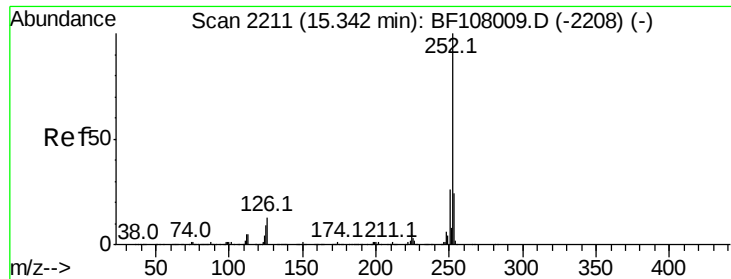
Sohil
8/17/2018 5:14:58 PM



#87
Benzo(b)fluoranthene
Concen: 27.100 ng m
RT: 15.32 min Scan# 2208
Delta R.T. 0.02 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	24.3	17.0	25.6	
125	17.0	9.0	13.6	





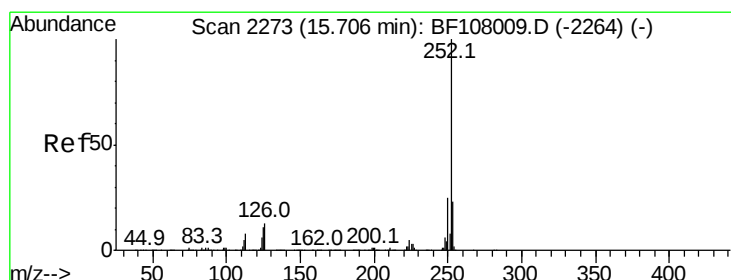
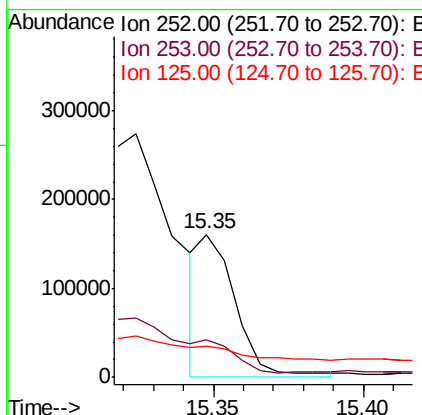
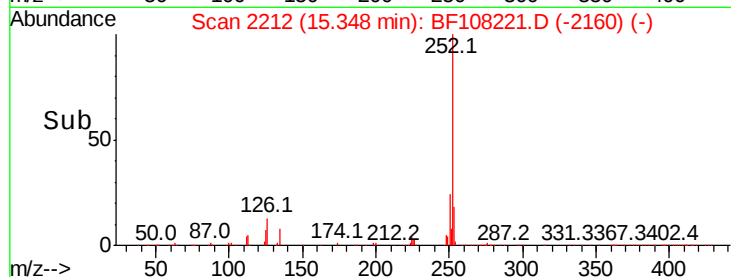
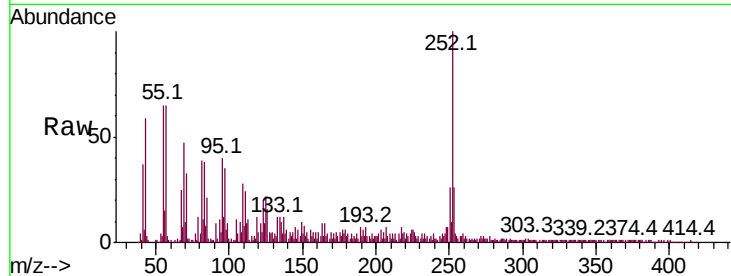
#88
Benzo(k)fluoranthene
Concen: 8.543 ng m
RT: 15.35 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.9	17.9	26.9
125	21.7	10.2	15.2

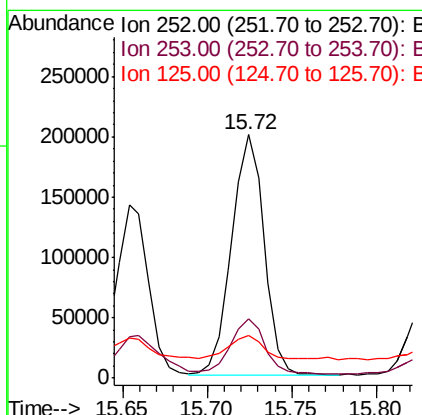
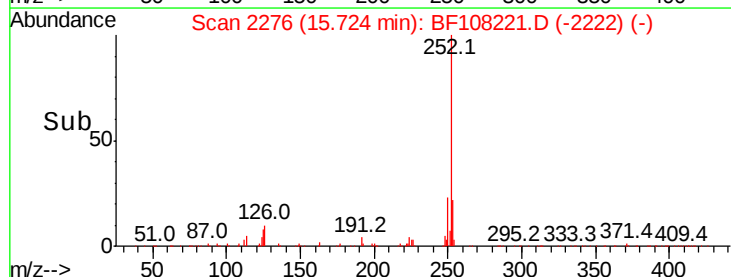
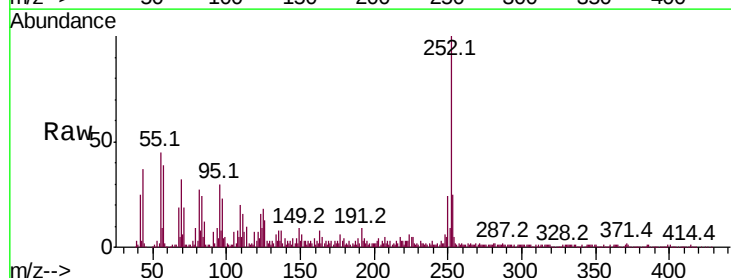
Manual Integrations
APPROVED

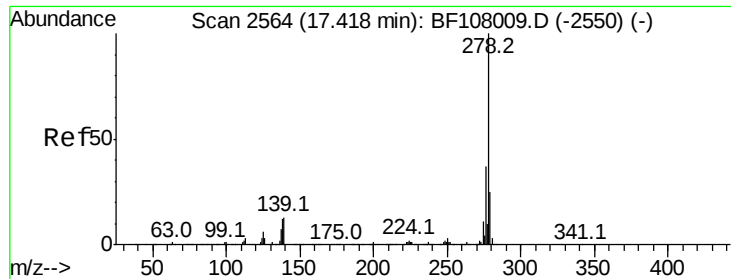
Sohil
8/17/2018 5:14:58 PM



#89
Benzo(a)pyrene
Concen: 17.239 ng
RT: 15.72 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.1	25.7
125	17.8	9.8	14.6





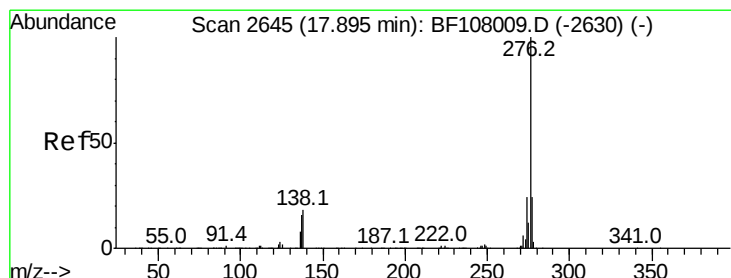
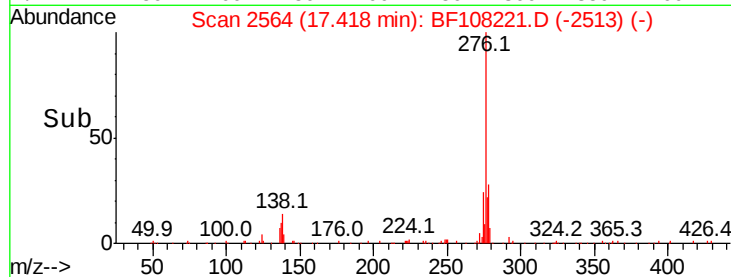
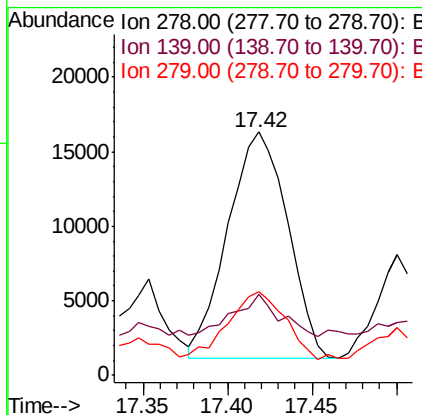
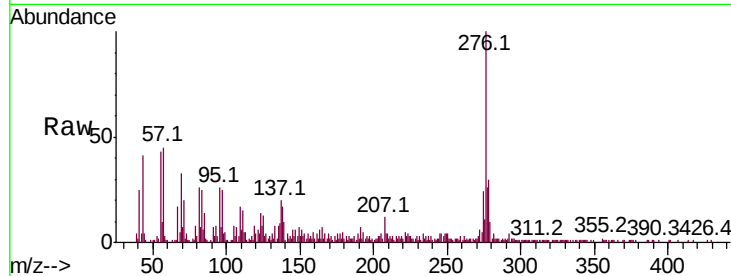
#90
Dibenzo(a,h)anthracene
Concen: 2.927 ng
RT: 17.42 min Scan# 2564
Delta R.T. 0.00 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Instrument :
BNA_F
ClientSampleId :
RA-081318-SSW-45-022

Tot Ion	Ratio	Lower	Upper
278	100		
139	33.4	15.9	23.9#
279	34.3	19.0	28.4#

Manual Integrations
APPROVED

Sohil
8/17/2018 5:14:58 PM



#91
Benzo(g,h,i)perylene
Concen: 9.530 ng
RT: 17.91 min Scan# 2647
Delta R.T. 0.01 min
Lab File: BF108221.D
Acq: 17 Aug 2018 3:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	20.5	21.8	32.8#

