

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112718\
 Data File : BF111017.D
 Acq On : 27 Nov 2018 18:42
 Operator : JU/SJ
 Sample : J6062-02
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-20(1-10)

Manual Integrations
 APPROVED

mohammad
 11/28/2018 4:42:28 PM

Quant Time: Nov 28 01:18:38 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF112618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 27 15:32:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	40551	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	141779	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	60296	20.00	ng	0.00
64) Phenanthrene-d10	11.48	188	121813	20.00	ng	0.00
76) Chrysene-d12	14.14	240	92859	20.00	ng	0.00
87) Perylene-d12	15.67	264	61963	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	265080	108.40	ng	0.01
7) Phenol-d6	6.57	99	313523	98.39	ng	0.00
23) Nitrobenzene-d5	7.50	82	181933	73.44	ng	0.00
42) 2,4,6-Tribromophenol	10.78	330	63501	106.04	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	287771	69.14	ng	0.00
79) Terphenyl-d14	13.06	244	312578	65.53	ng	0.00

Target Compounds				Qvalue		
10) Phenol	6.59	94	17873	4.980	ng	93
49) Acenaphthylene	9.85	152	13397	2.337	ng	# 94
50) Dimethylphthalate	9.69	163	21249	4.805	ng	99
52) Acenaphthene	10.02	154	16141	4.393	ng	97
55) Dibenzofuran	10.19	168	26771	4.994	ng	98
58) Fluorene	10.53	166	42084	10.091	ng	98
71) Phenanthrene	11.50	178	397933	61.680	ng	100
72) Anthracene	11.56	178	141302	21.506	ng	99
73) Carbazole	11.72	167	30335	4.757	ng	97
75) Fluoranthene	12.70	202	531012	80.082	ng	99
78) Pyrene	12.93	202	421772	62.188	ng	99
81) Benzo(a)anthracene	14.13	228	194251	35.433	ng	99
83) Chrysene	14.16	228	140365	26.009	ng	97
86) Indeno(1,2,3-cd)pyrene	17.27	276	46877	12.101	ng	97
88) Benzo(b)fluoranthene	15.22	252	133891m	36.782	ng	
89) Benzo(k)fluoranthene	15.24	252	36917m	9.853	ng	
90) Benzo(a)pyrene	15.62	252	81780	24.136	ng	97
91) Dibenzo(a,h)anthracene	17.27	278	13207m	4.724	ng	
92) Benzo(a,h,i)perylene	17.76	276	44697	16.582	ng	97

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

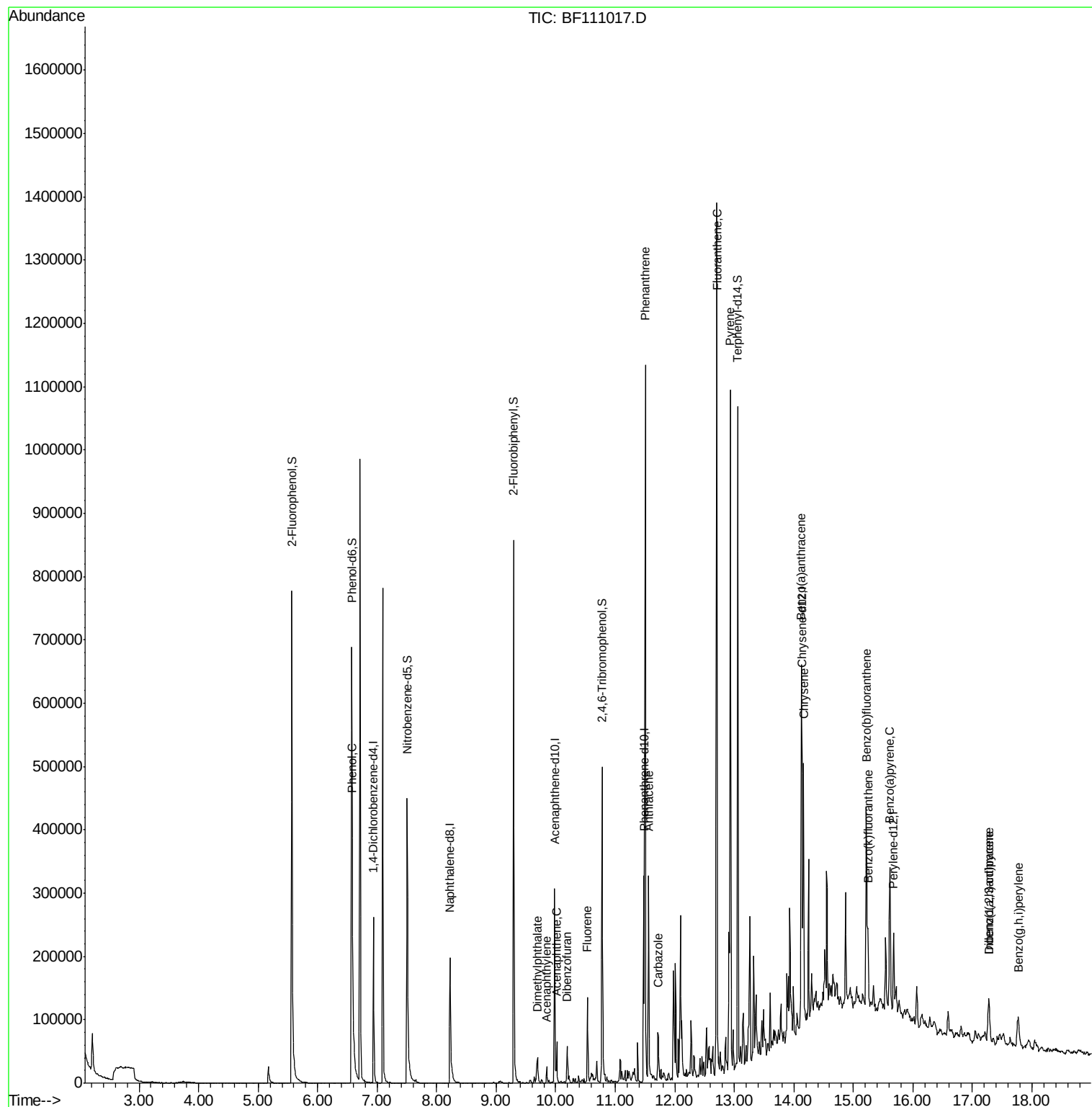
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112718\
Data File : BF111017.D
Acq On : 27 Nov 2018 18:42
Operator : JU/SJ
Sample : J6062-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

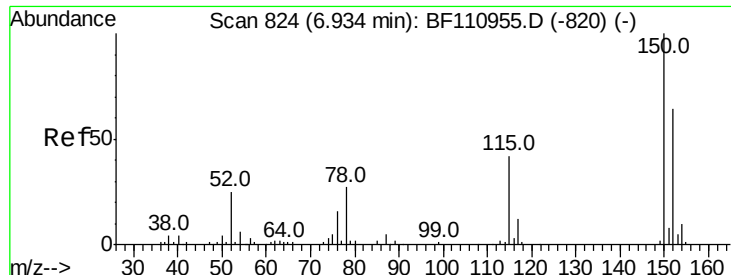
Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM

Quant Time: Nov 28 01:18:38 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF112618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 27 15:32:10 2018
Response via : Initial Calibration





#1

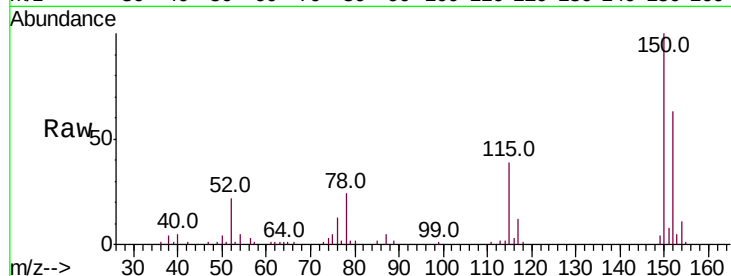
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. 0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	122.7	184.1
115	61.3	49.1	73.7

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM

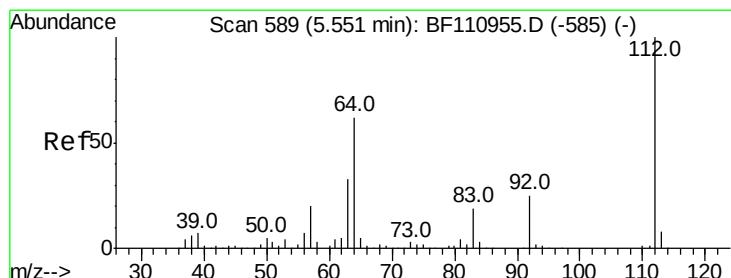
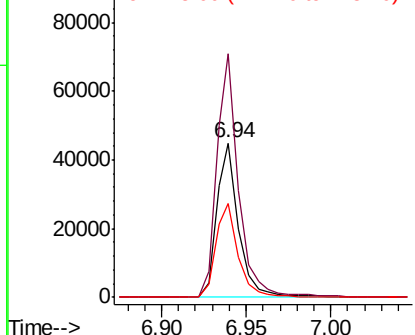
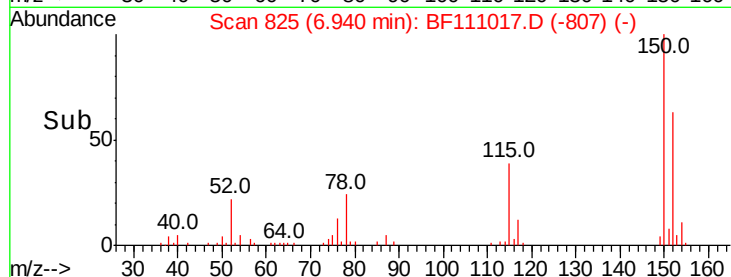


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

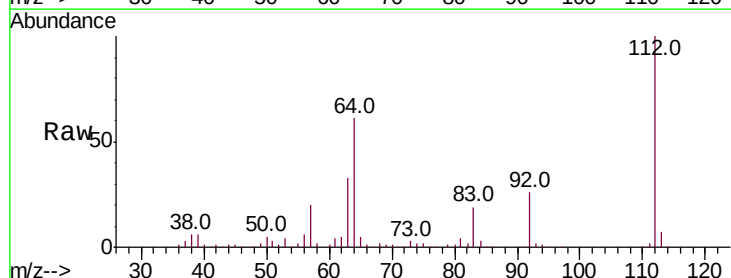
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 108.403 ng
RT: 5.56 min Scan# 591
Delta R.T. 0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.6	44.1	66.1
63	33.0	23.7	35.5

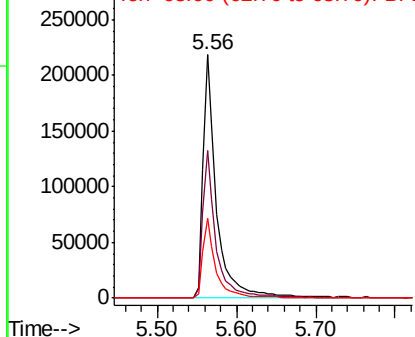
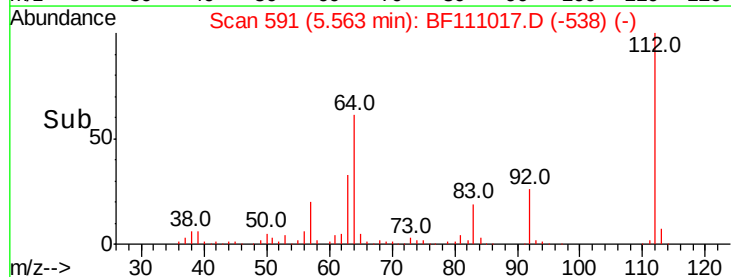


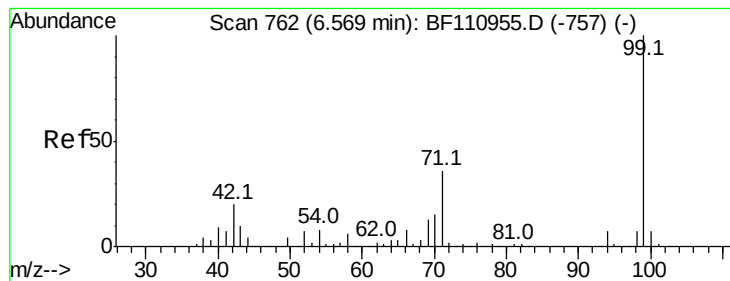
Abundance

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: 98.386 ng

RT: 6.57 min Scan# 763

Delta R.T. 0.01 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Instrument :

BNA_F

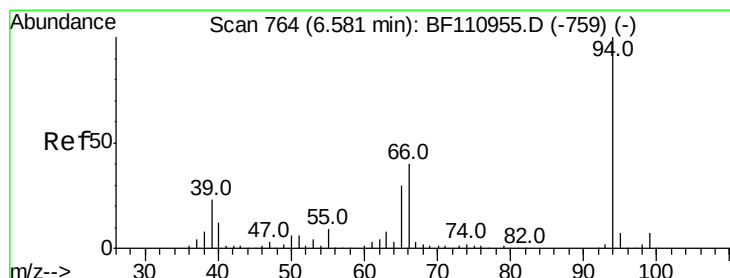
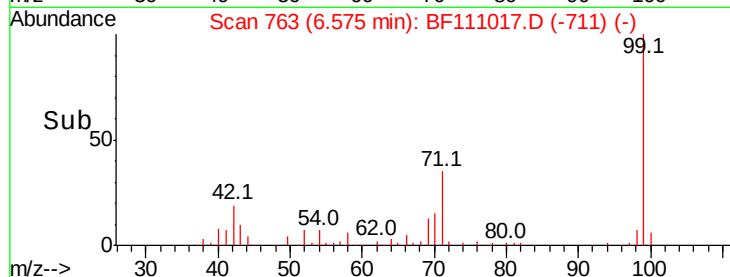
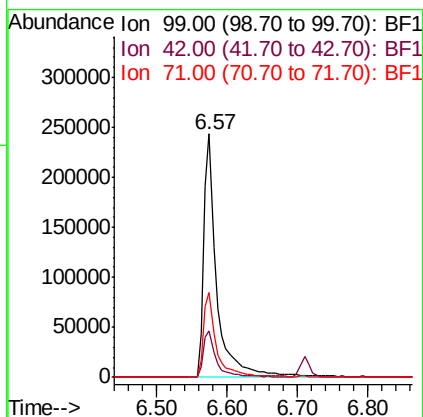
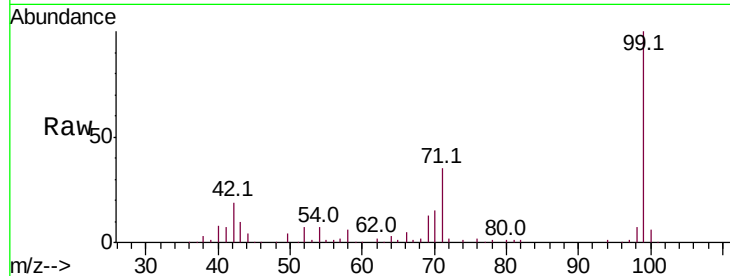
ClientSampleId :

B-20(1-10)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		313523		
42	18.9	15.8	23.6		
71	34.9	28.0	42.0		

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM



#10

Phenol

Concen: 4.980 ng

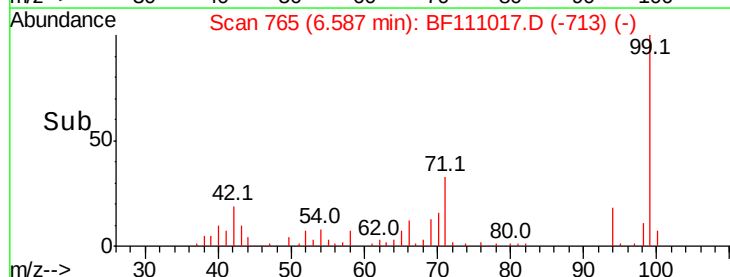
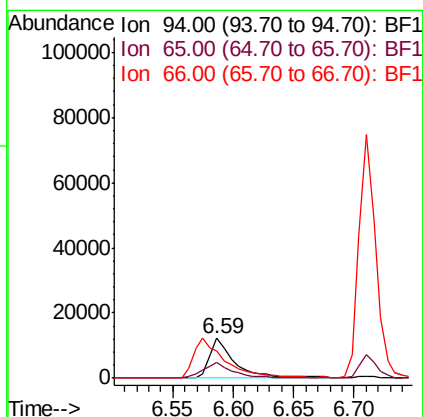
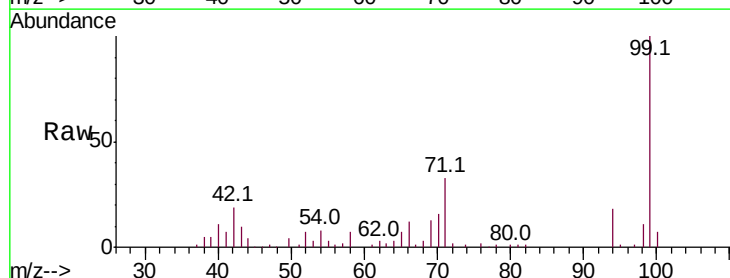
RT: 6.59 min Scan# 765

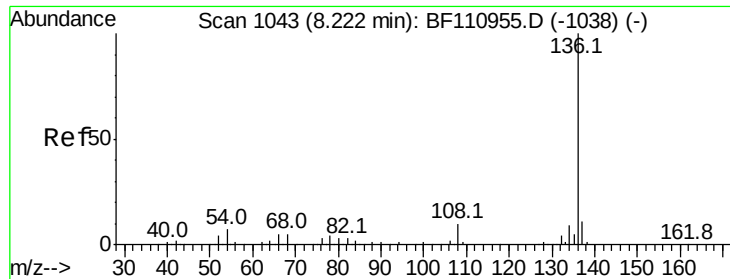
Delta R.T. 0.01 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		17873		
65	40.1	25.3	65.3		
66	68.4	54.5	94.5		





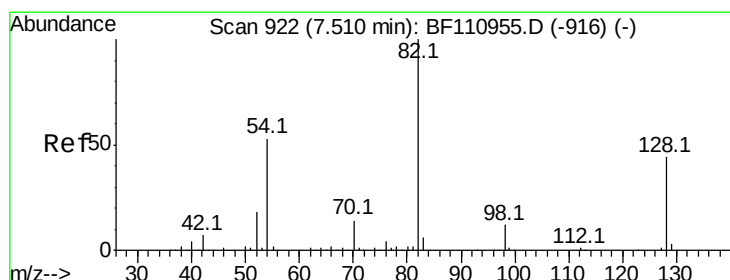
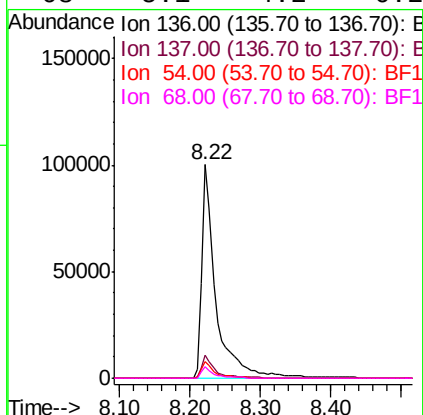
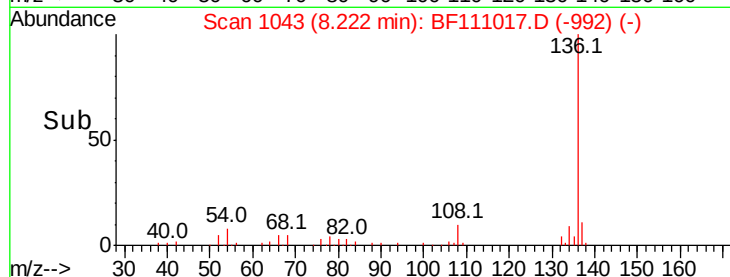
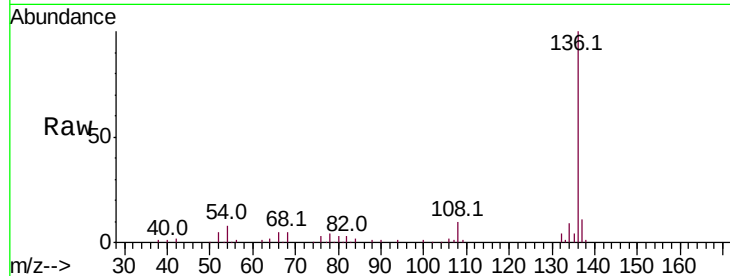
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.22 min Scan# 1043
Delta R.T. 0.00 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	10.7		8.8	13.2	
54	8.0		5.4	8.2	
68	5.1		4.2	6.2	

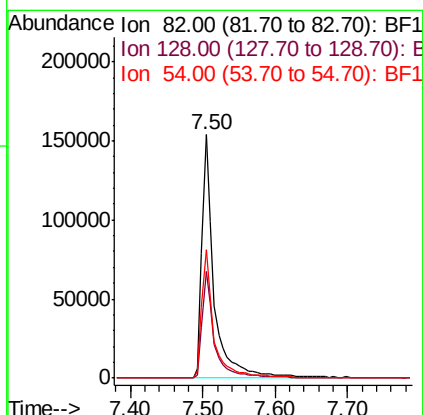
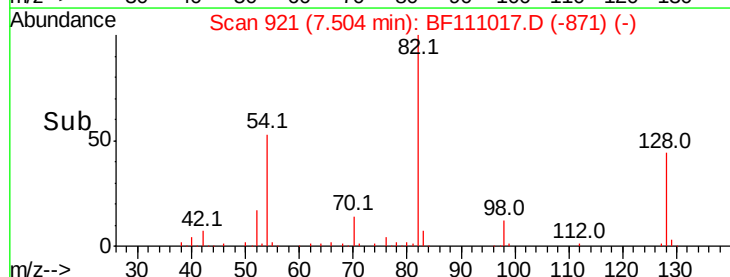
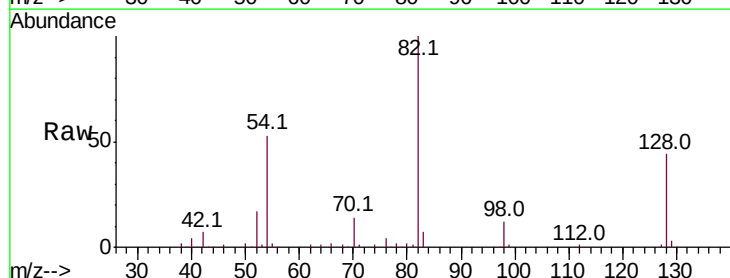
Manual Integrations
APPROVED

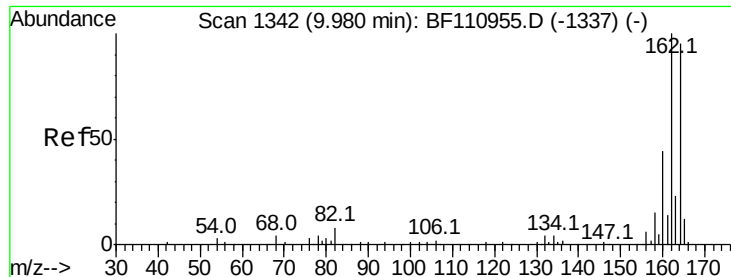
mohammad
11/28/2018 4:42:28 PM



#23
Nitrobenzene-d5
Concen: 73.439 ng
RT: 7.50 min Scan# 921
Delta R.T. -0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	44.0		34.2	51.2	
54	52.5		38.6	58.0	





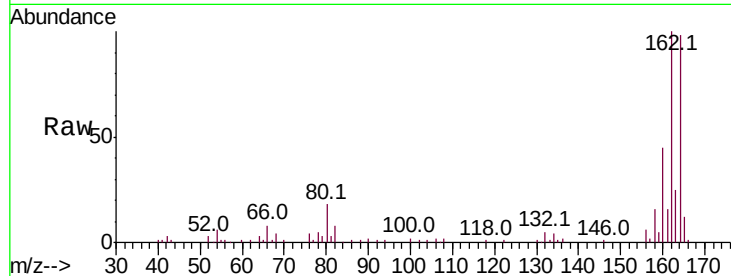
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.00 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

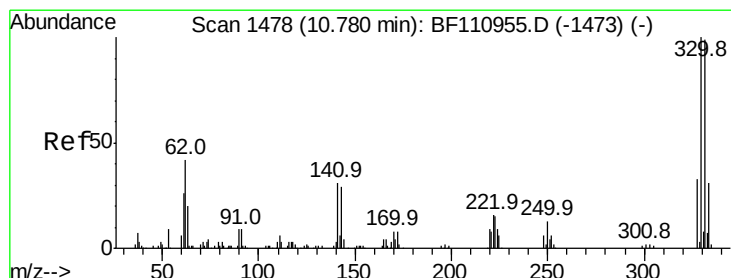
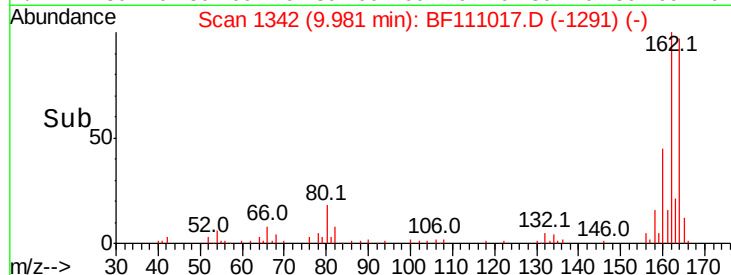
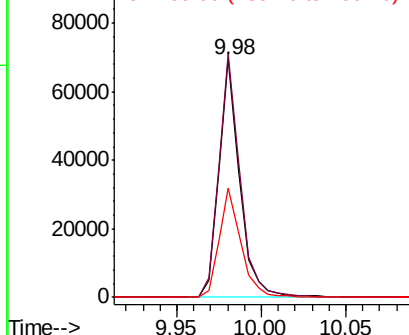
Tot Ion	Ratio	Lower	Upper
164	100		
162	102.3	83.0	124.6
160	45.8	37.0	55.6

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM



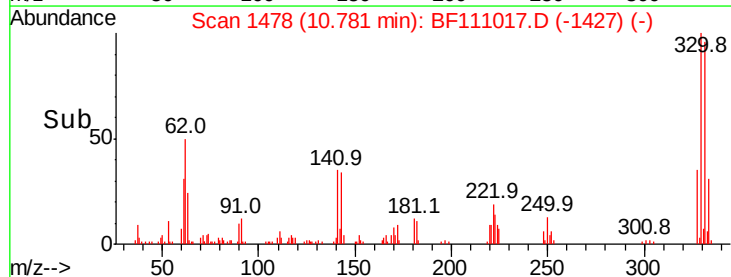
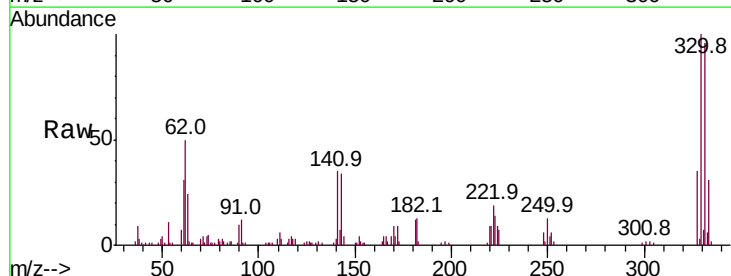
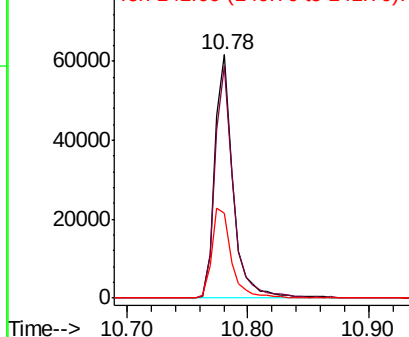
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

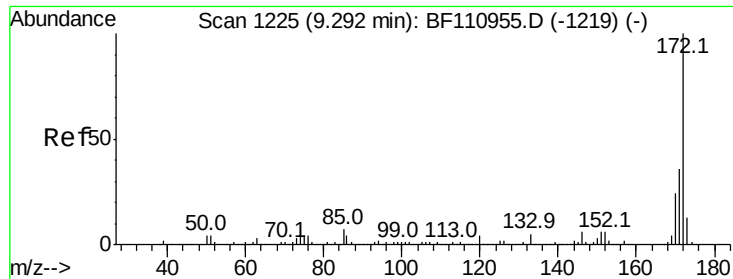


#42
2,4,6-Tribromophenol
Concen: 106.043 ng
RT: 10.78 min Scan# 1478
Delta R.T. 0.00 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.1	115.7
141	39.5	27.0	40.4

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





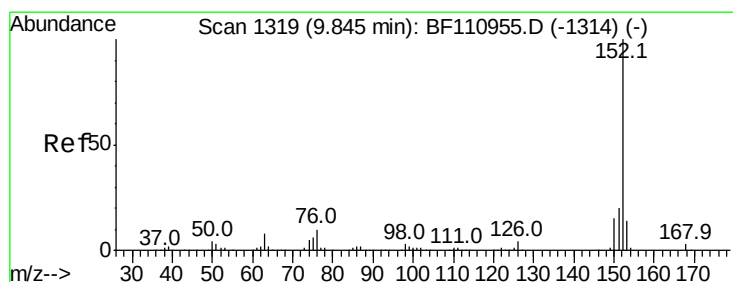
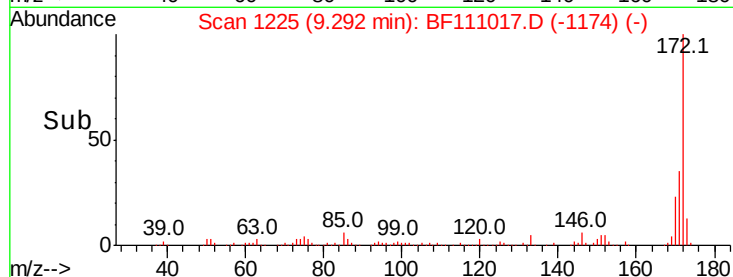
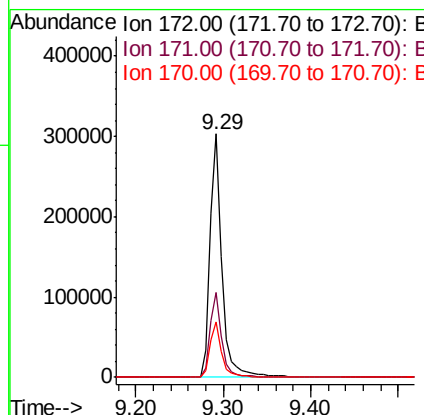
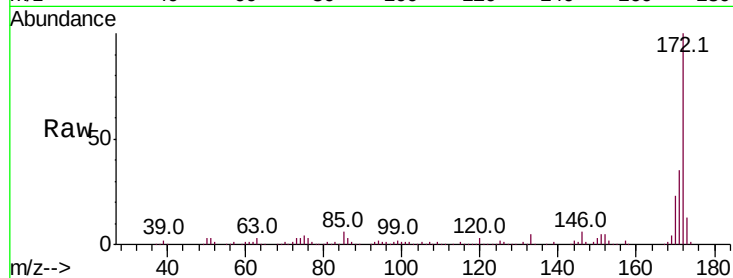
#45
2-Fluorobiphenyl
Concen: 69.145 ng
RT: 9.29 min Scan# 1225
Delta R.T. 0.00 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	287771		
171	34.8		28.6	43.0
170	22.9		19.7	29.5

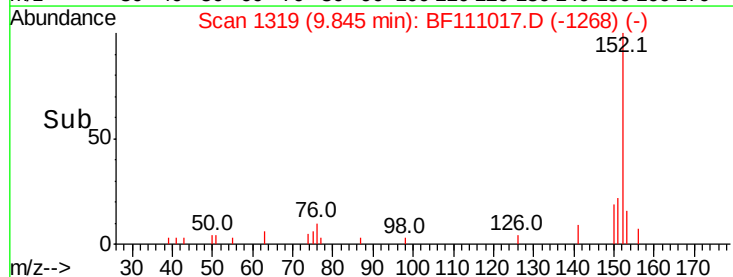
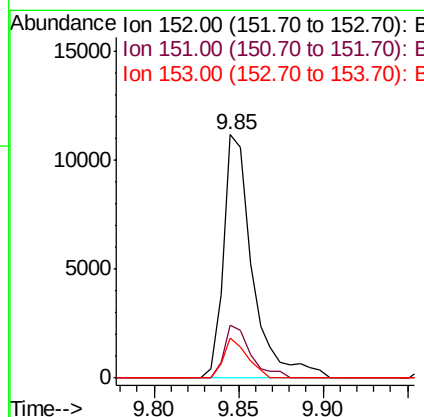
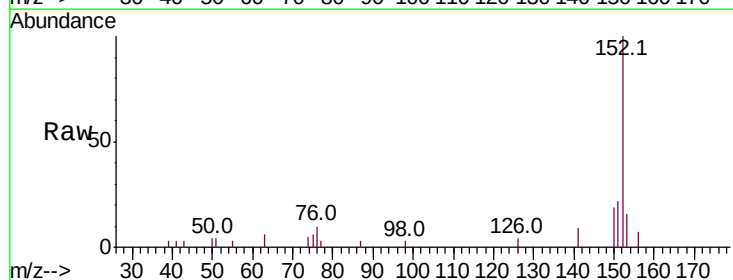
Manual Integrations
APPROVED

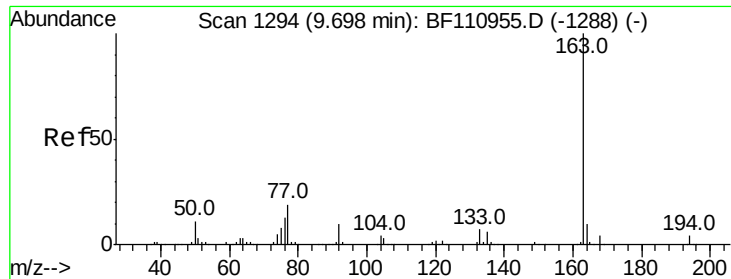
mohammad
11/28/2018 4:42:28 PM



#49
Acenaphthylene
Concen: 2.337 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.00 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	13397		
151	21.6		15.8	23.8
153	16.5		10.4	15.6#





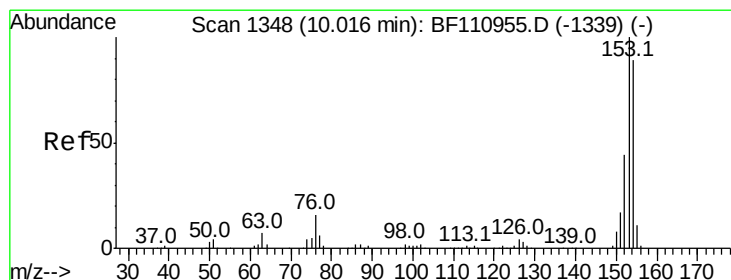
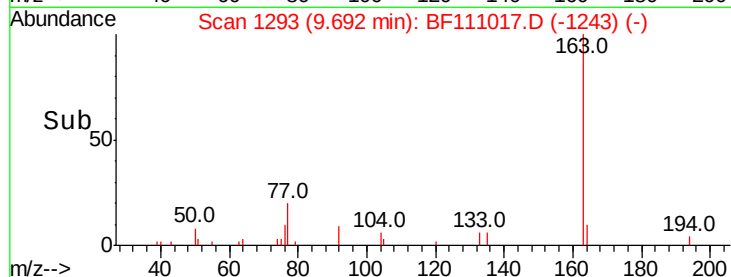
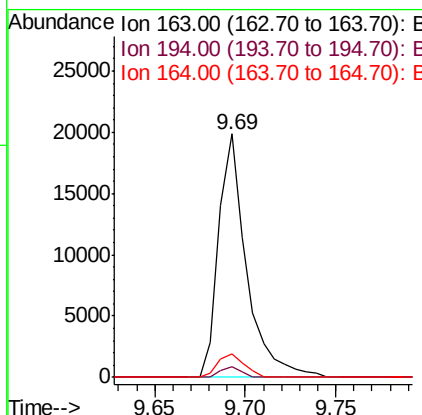
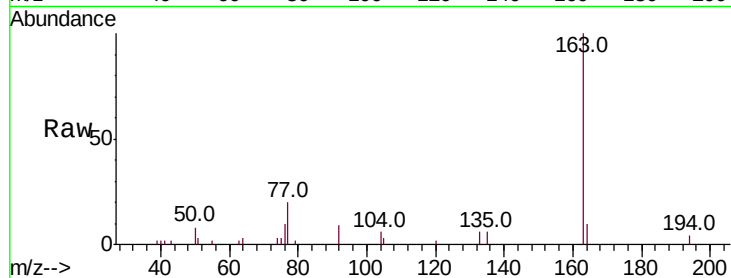
#50
Dimethylphthalate
Concen: 4.805 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampled :
B-20(1-10)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	21249		
194	4.2		3.2	4.8
164	9.8		8.1	12.1

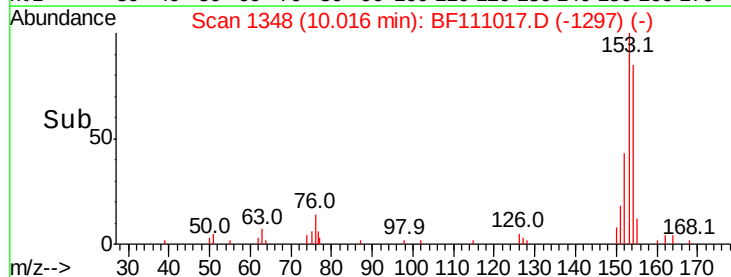
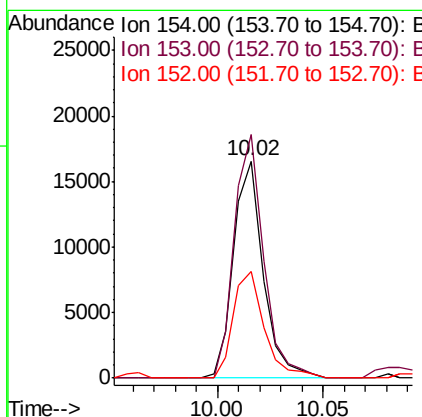
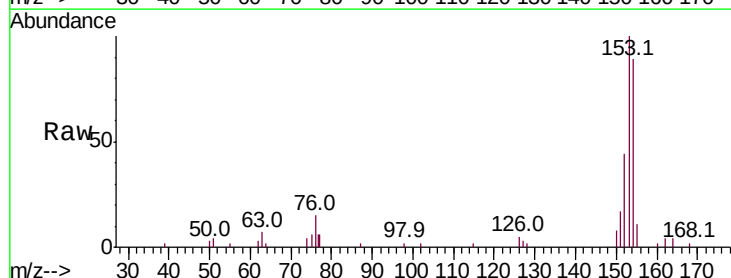
Manual Integrations
APPROVED

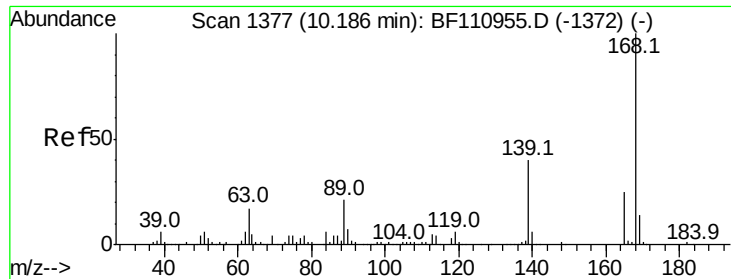
mohammad
11/28/2018 4:42:28 PM



#52
Acenaphthene
Concen: 4.393 ng
RT: 10.02 min Scan# 1348
Delta R.T. 0.00 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	16141		
153	112.1		90.1	135.1
152	48.9		43.4	65.2





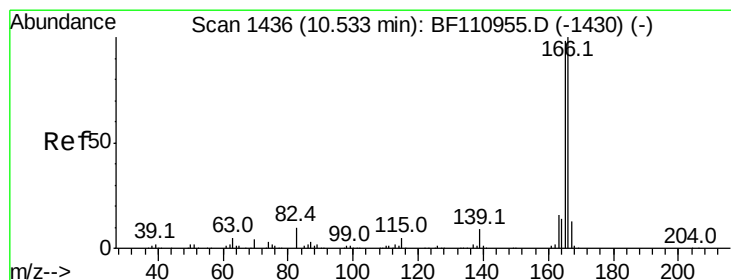
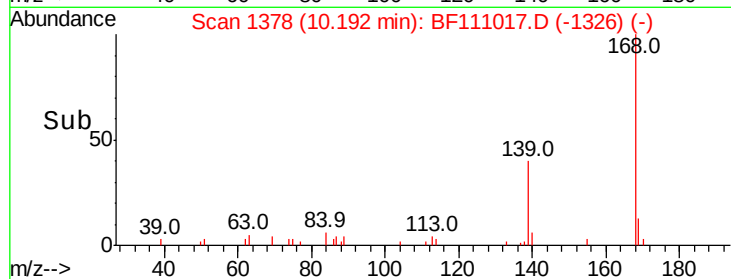
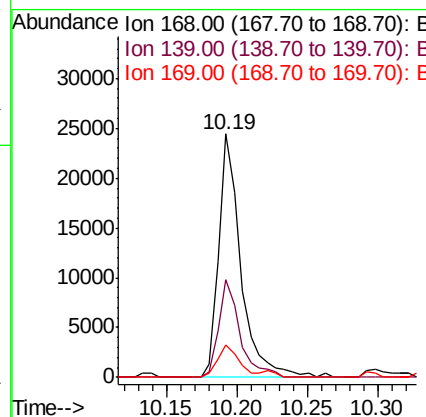
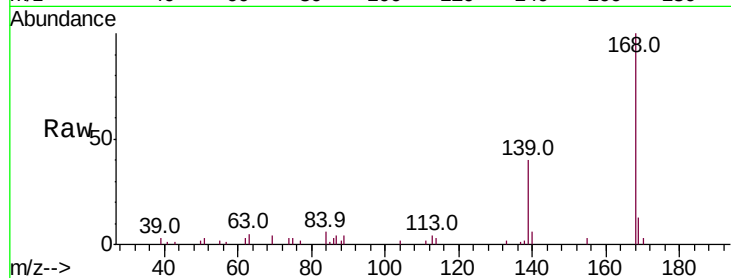
#55
Dibenzofuran
Concen: 4.994 ng
RT: 10.19 min Scan# 1378
Delta R.T. 0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampled :
B-20(1-10)

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.1	33.0	49.6
169	13.5	11.3	16.9

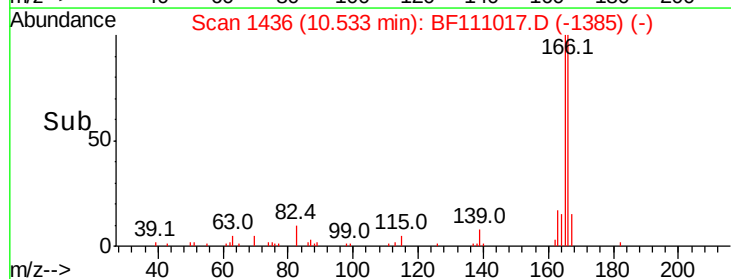
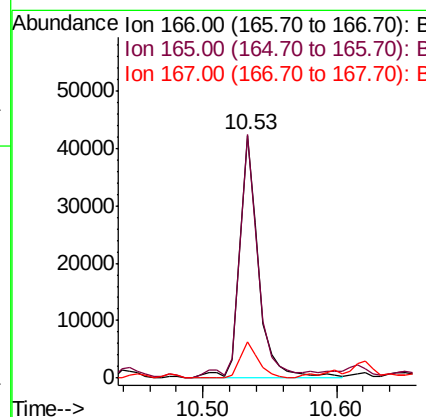
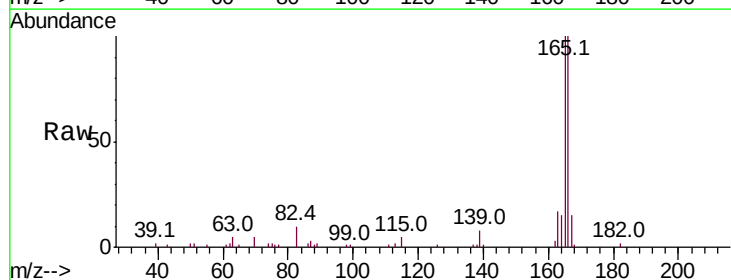
Manual Integrations
APPROVED

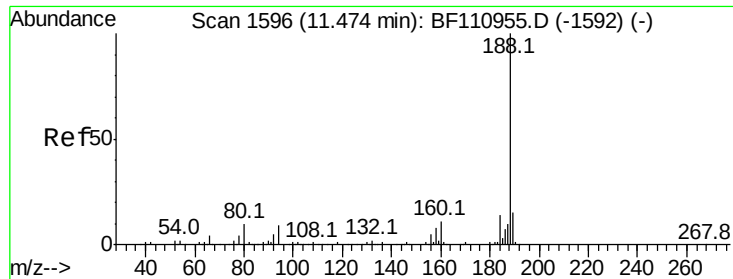
mohammad
11/28/2018 4:42:28 PM



#58
Fluorene
Concen: 10.091 ng
RT: 10.53 min Scan# 1436
Delta R.T. 0.00 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.3	78.6	117.8
167	14.8	10.8	16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.48 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Instrument :

BNA_F

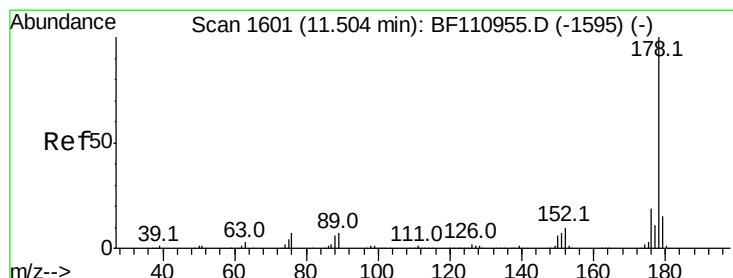
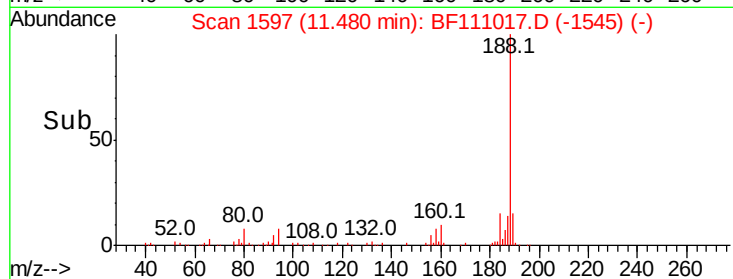
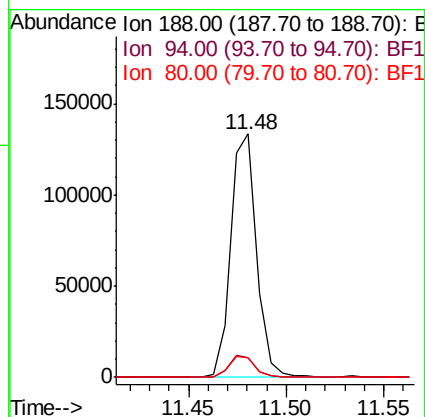
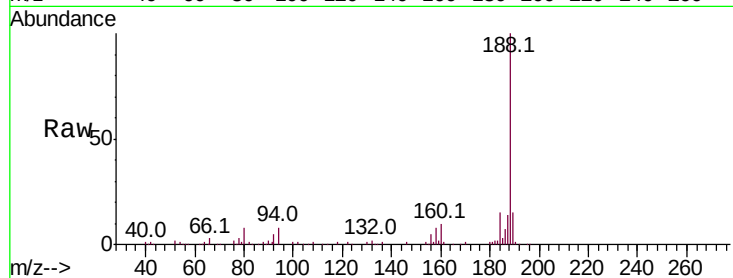
ClientSampleId :

B-20(1-10)

Tot Ion	188	Resp	121813
Ion Ratio	Lower	Upper	
188	100		
94	7.9	7.2	10.8
80	7.9	7.9	11.9

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM



#71

Phenanthrene

Concen: 61.680 ng

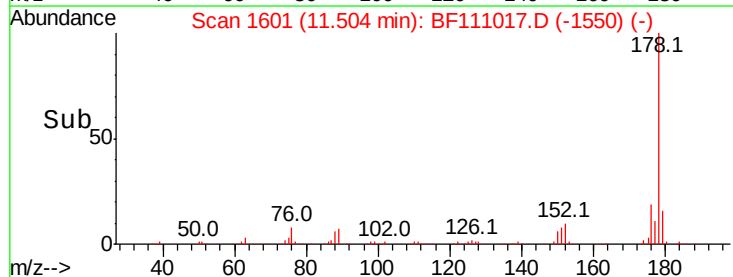
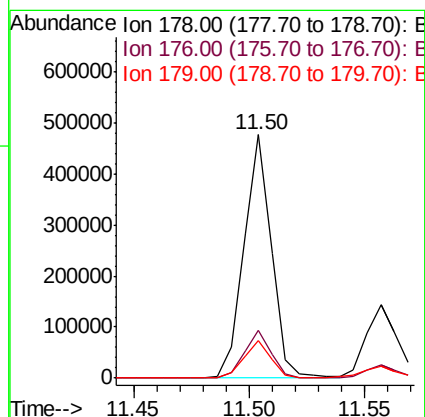
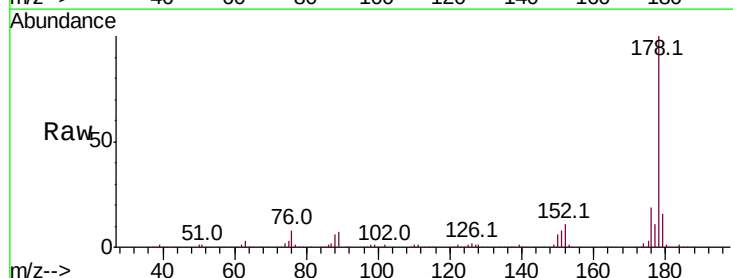
RT: 11.50 min Scan# 1601

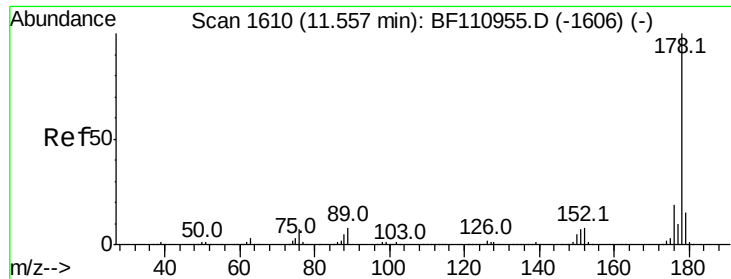
Delta R.T. 0.00 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Tgt Ion	178	Resp	397933
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.5	23.3
179	15.7	12.5	18.7





#72

Anthracene

Concen: 21.506 ng

RT: 11.56 min Scan# 1610

Delta R.T. 0.00 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Instrument :

BNA_F

ClientSampleId :

B-20(1-10)

Tot Ion:178 Resp: 141302

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

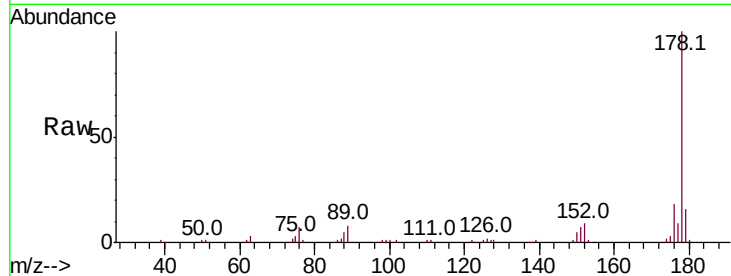
179 15.6 12.6 18.8

Manual Integrations

APPROVED

mohammad

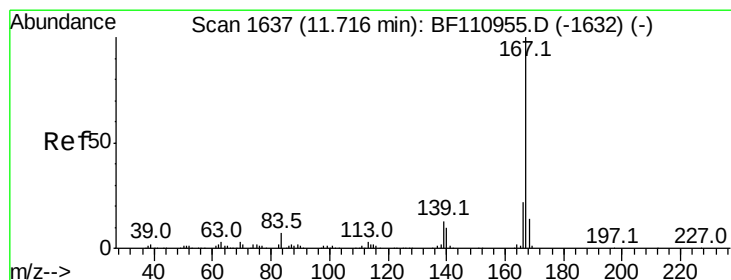
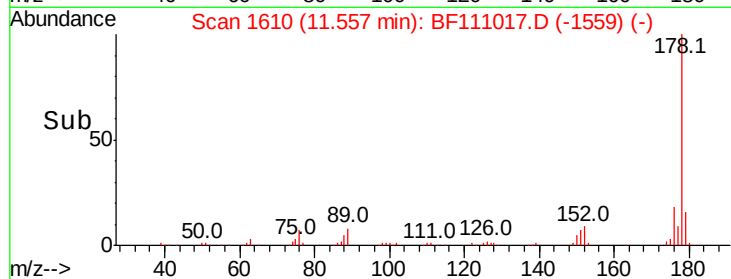
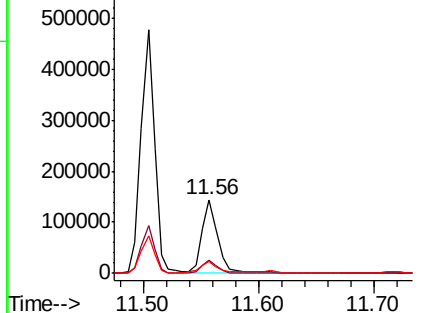
11/28/2018 4:42:28 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 4.757 ng

RT: 11.72 min Scan# 1638

Delta R.T. 0.01 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

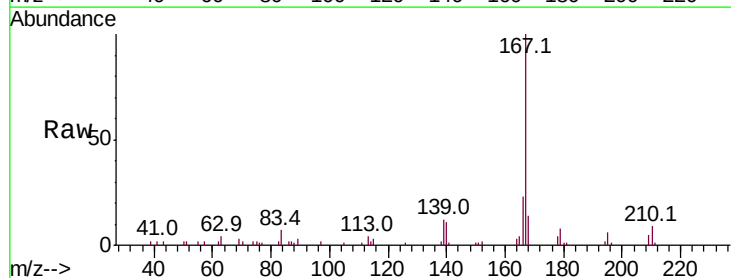
Tgt Ion:167 Resp: 30335

Ion Ratio Lower Upper

167 100

166 23.4 17.4 26.0

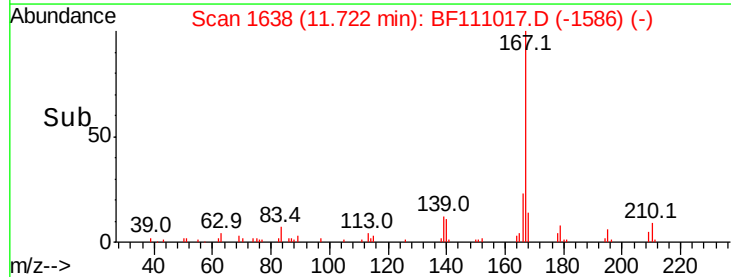
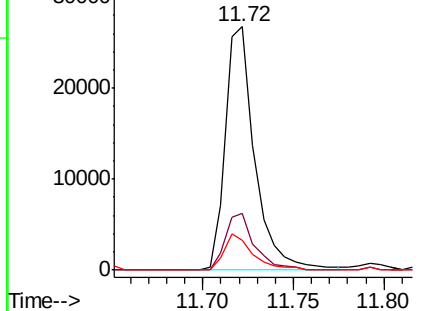
139 12.3 10.9 16.3

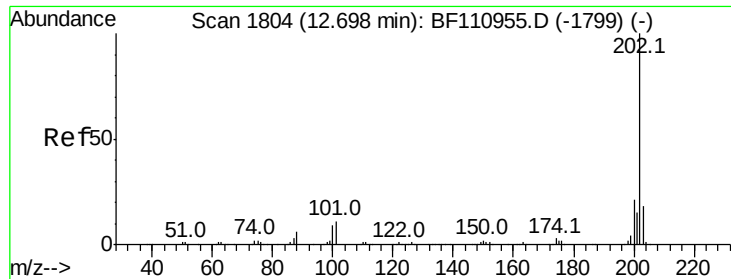


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 80.082 ng

RT: 12.70 min Scan# 1805

Delta R.T. 0.01 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Instrument :

BNA_F

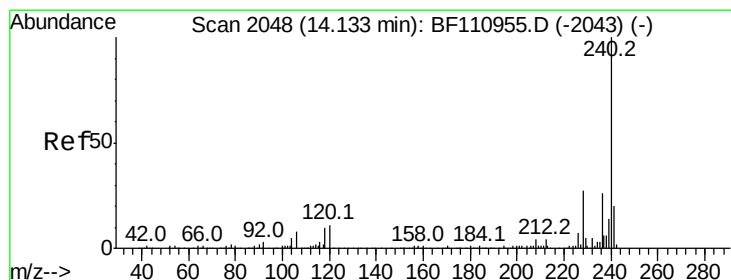
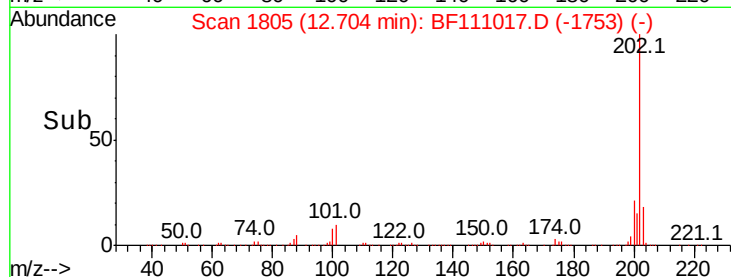
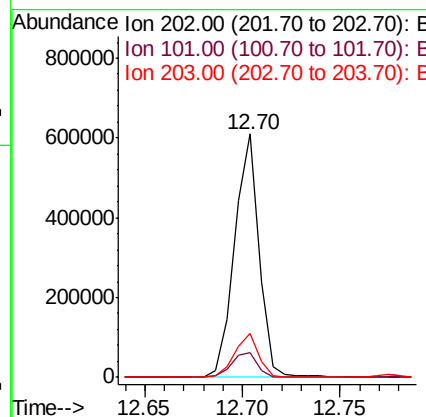
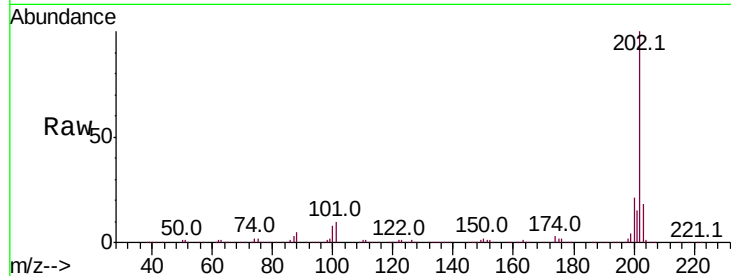
ClientSampleId :

B-20(1-10)

Tot Ion	Ratio	Resp	Lower	Upper
202	100	531012		
101	10.2	0.0	31.4	
203	17.8	0.0	37.7	

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM



#76

Chrysene-d12

Concen: 20.000 ng

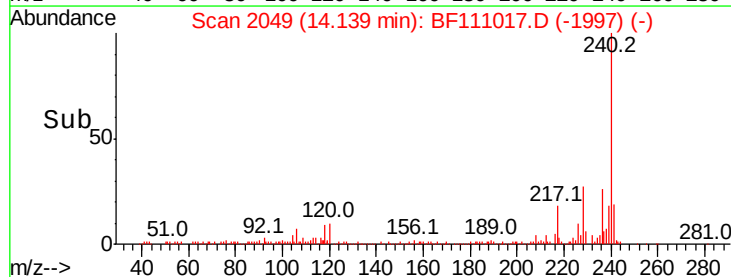
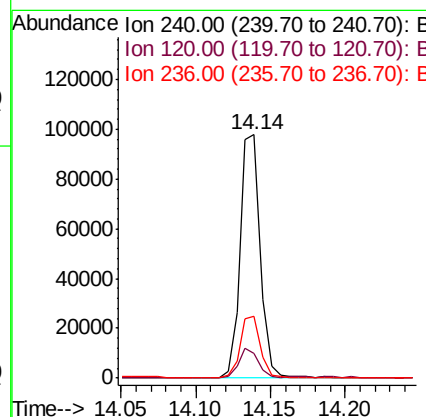
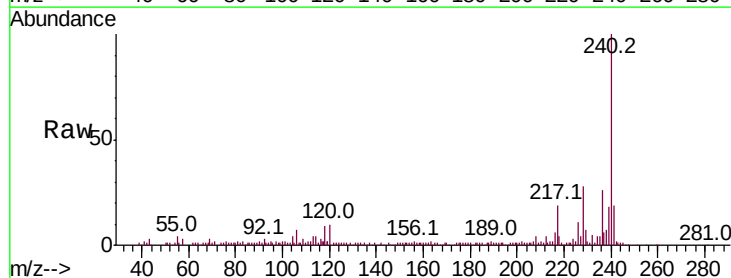
RT: 14.14 min Scan# 2049

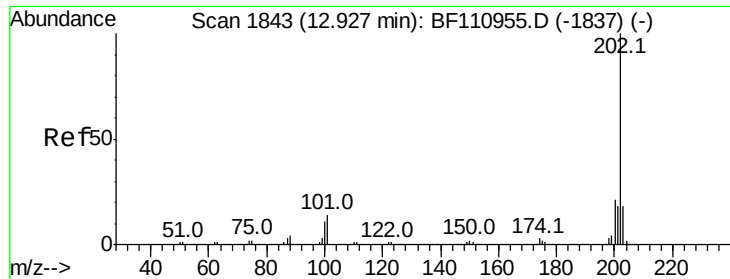
Delta R.T. 0.01 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	92859		
120	10.0	8.3	12.5	
236	25.5	21.2	31.8	





#78

Pvrene

Concen: 62.188 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Instrument :

BNA_F

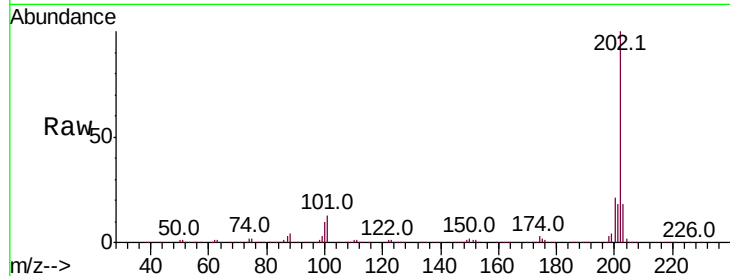
ClientSampleId :

B-20(1-10)

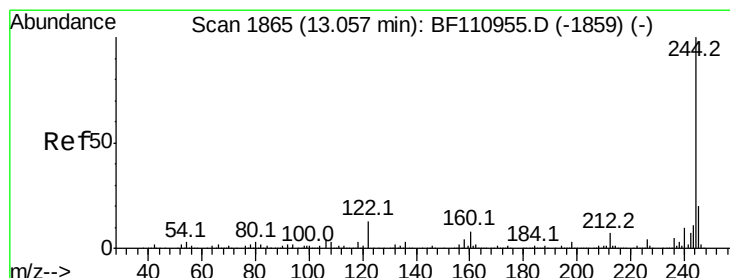
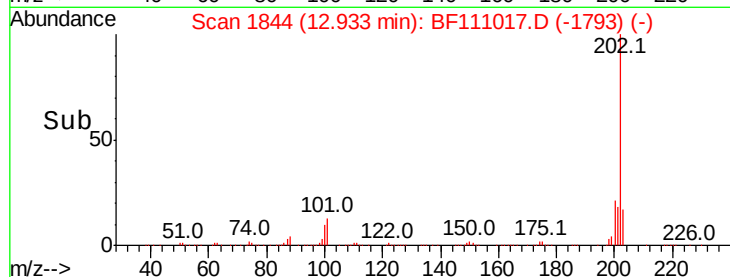
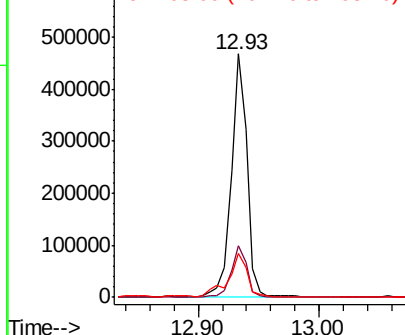
Tot Ion:	202	Resp:	421772
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.8	26.6
203	18.0	14.2	21.4

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 65.527 ng

RT: 13.06 min Scan# 1865

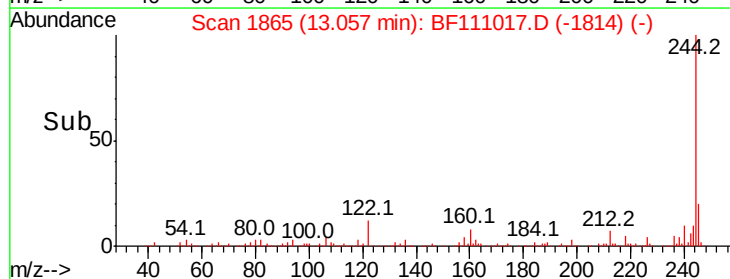
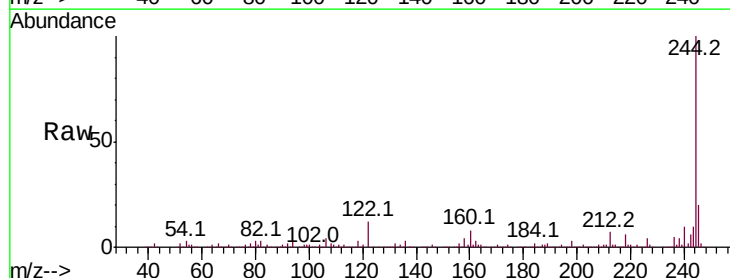
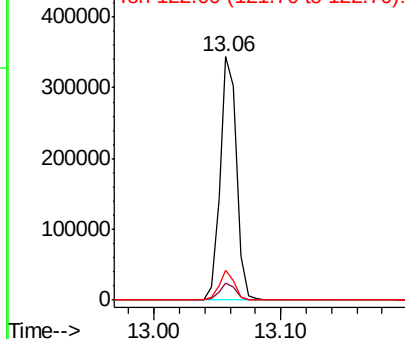
Delta R.T. 0.00 min

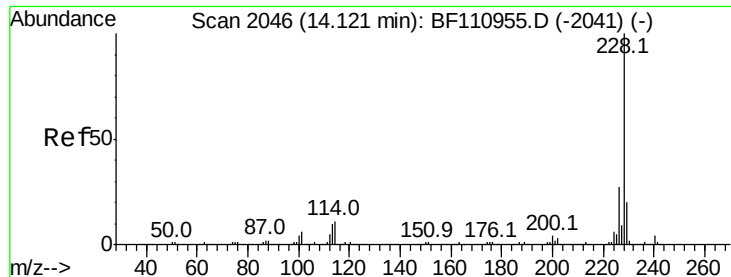
Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Tgt Ion:	244	Resp:	312578
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.8	8.8
122	12.1	8.7	13.1

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





#81

Benzo(a)anthracene

Concen: 35.433 ng

RT: 14.13 min Scan# 2047

Delta R.T. 0.01 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Instrument :

BNA_F

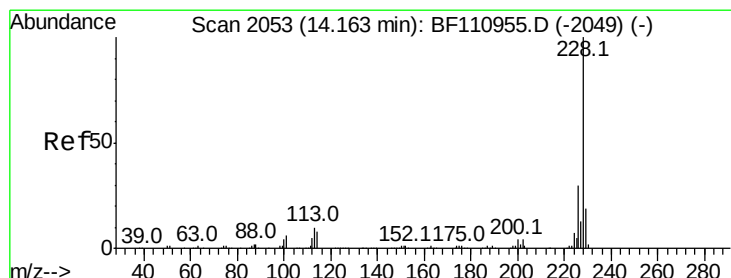
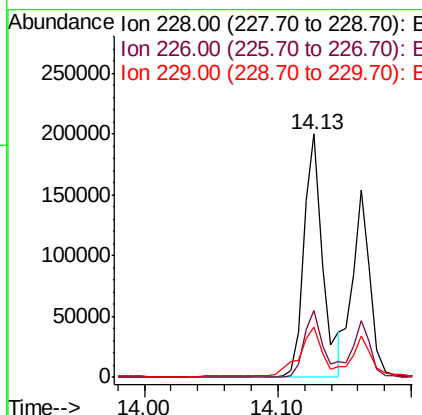
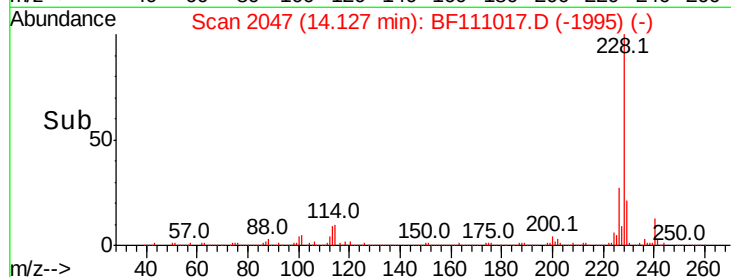
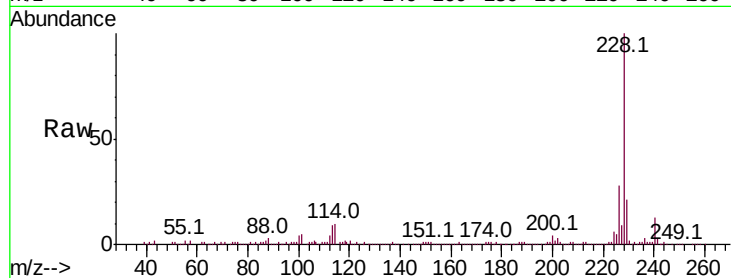
ClientSampleId :

B-20(1-10)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100		194251		
226	27.6	22.1	33.1		
229	20.8	15.6	23.4		

Manual Integrations
APPROVED

mohammad
11/28/2018 4:42:28 PM



#83

Chrysene

Concen: 26.009 ng

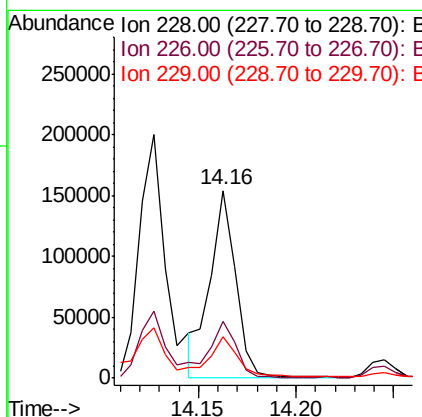
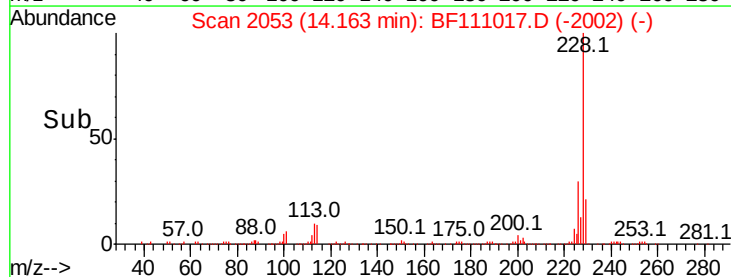
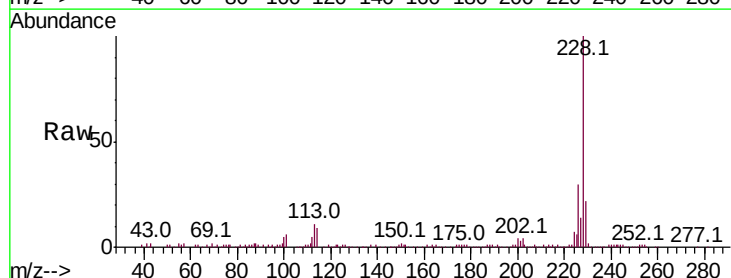
RT: 14.16 min Scan# 2053

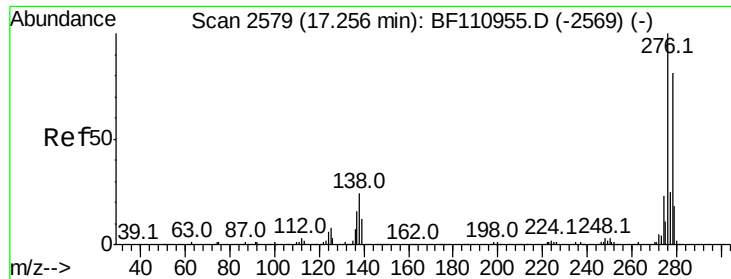
Delta R.T. 0.00 min

Lab File: BF111017.D

Acq: 27 Nov 2018 18:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
228	100		140365		
226	29.9	24.7	37.1		
229	22.0	15.9	23.9		





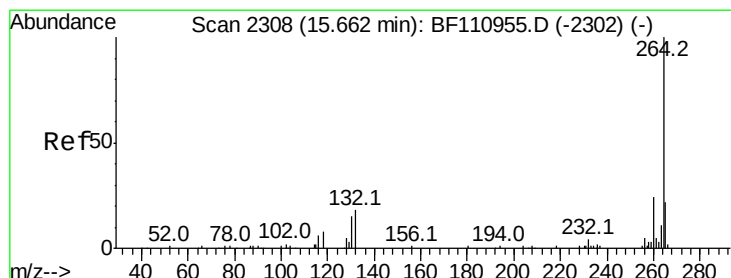
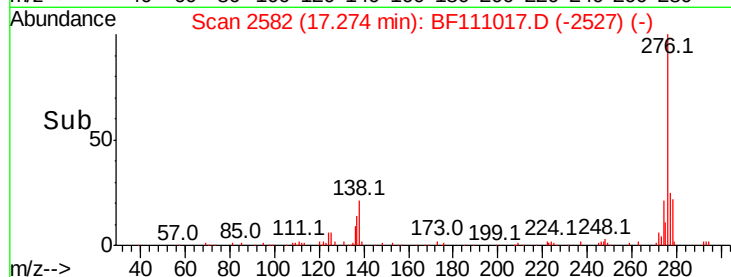
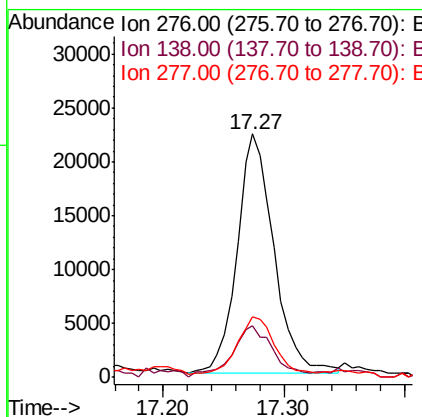
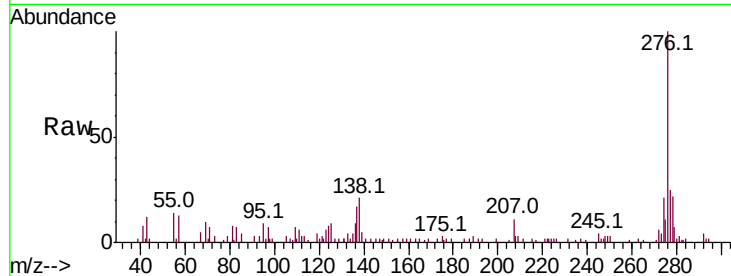
#86
Indeno(1,2,3-cd)pyrene
Concen: 12.101 ng
RT: 17.27 min Scan# 2582
Delta R.T. 0.02 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.2	18.5	27.7
277	22.8	20.0	30.0

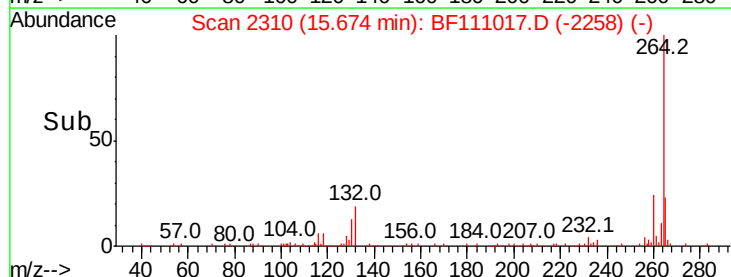
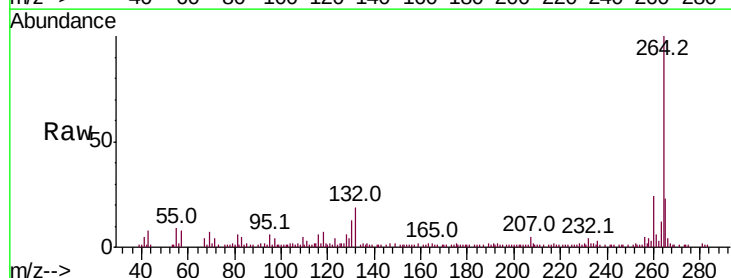
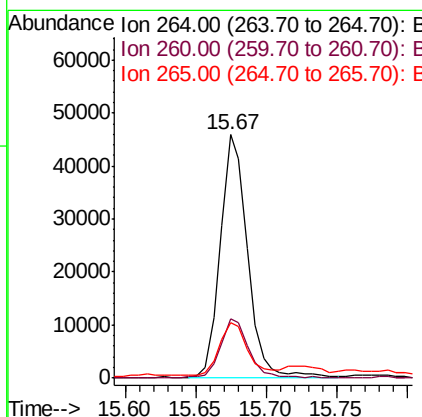
Manual Integrations
APPROVED

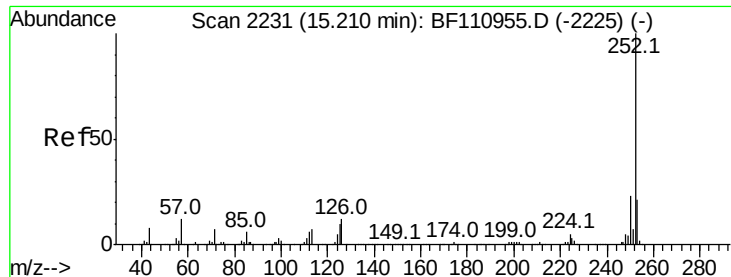
mohammad
11/28/2018 4:42:28 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.67 min Scan# 2310
Delta R.T. 0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.7	28.1
265	22.8	16.7	25.1





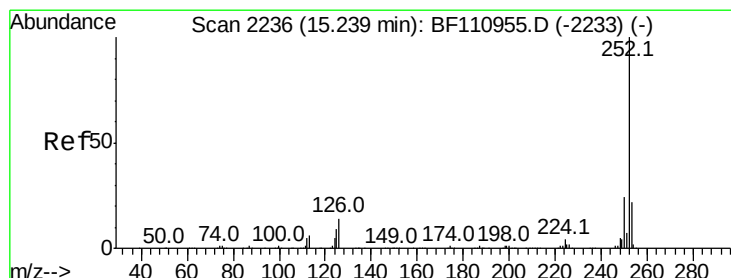
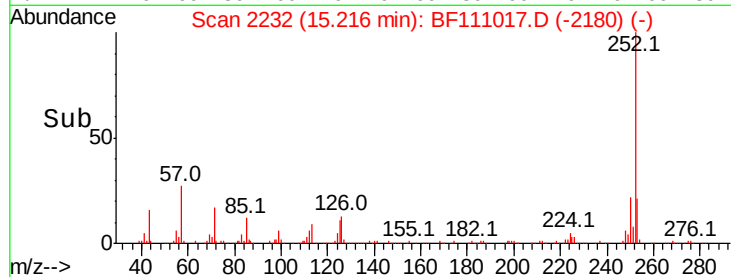
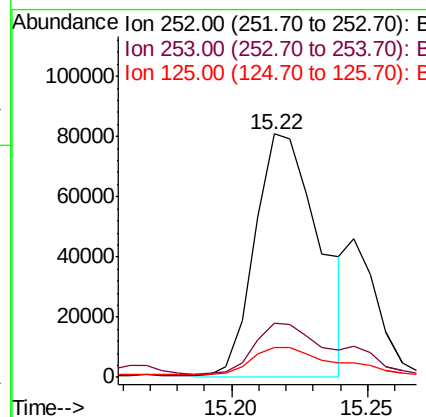
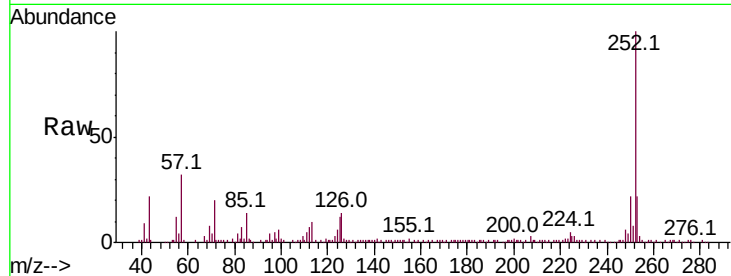
#88
Benzo(b)fluoranthene
Concen: 36.782 ng m
RT: 15.22 min Scan# 2232
Delta R.T. 0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.2	25.8
125	12.2	8.2	12.4

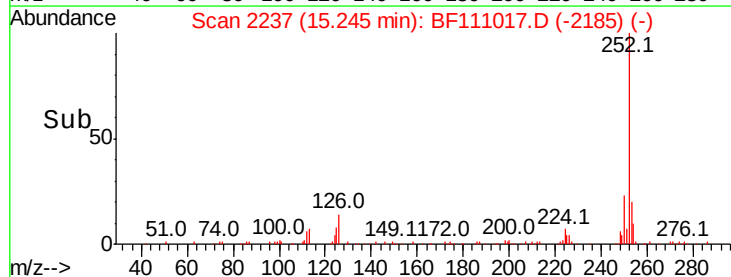
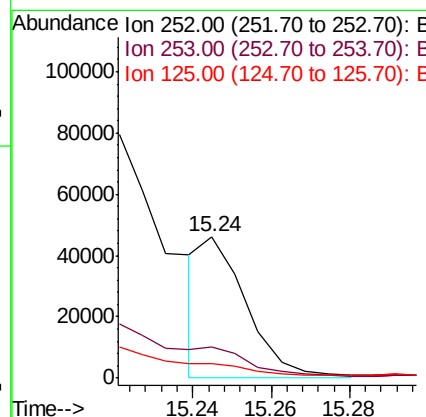
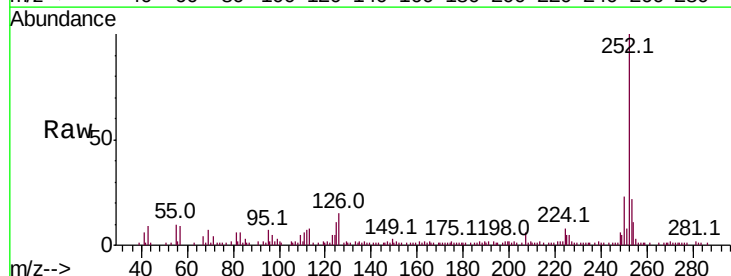
Manual Integrations
APPROVED

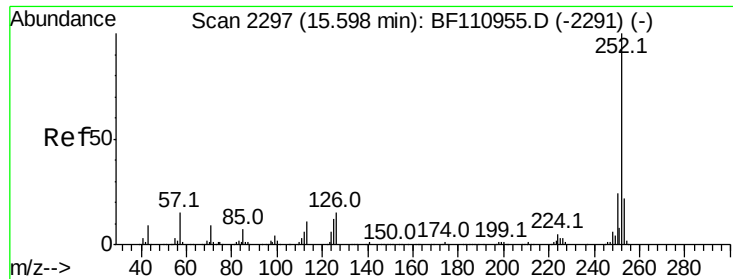
mohammad
11/28/2018 4:42:28 PM



#89
Benzo(k)fluoranthene
Concen: 9.853 ng m
RT: 15.24 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.2	25.8
125	10.6	7.4	11.0





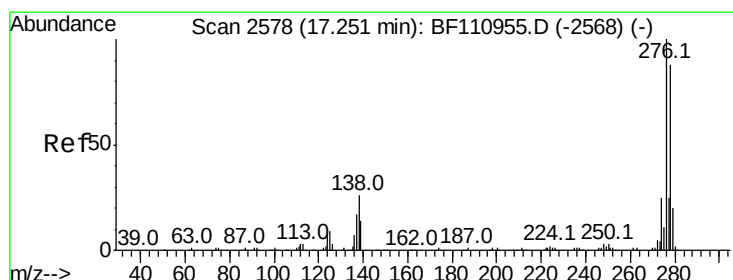
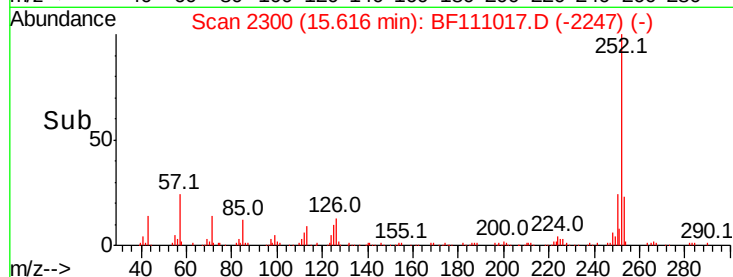
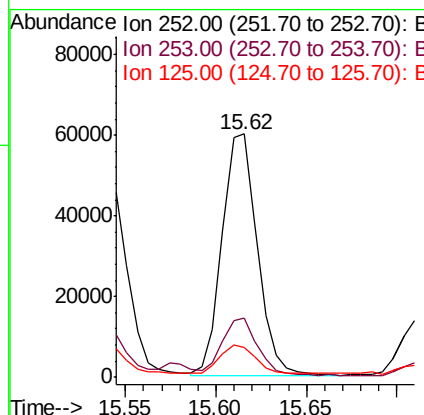
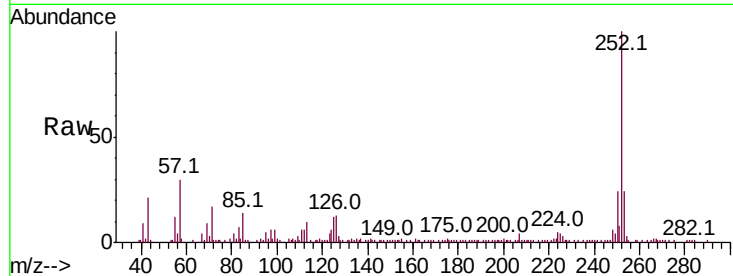
#90
Benzo(a)pyrene
Concen: 24.136 ng
RT: 15.62 min Scan# 2300
Delta R.T. 0.01 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Instrument :
BNA_F
ClientSampleId :
B-20(1-10)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.2	27.4
125	12.0	9.0	13.6

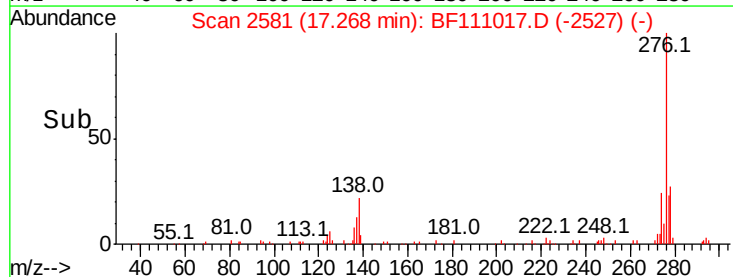
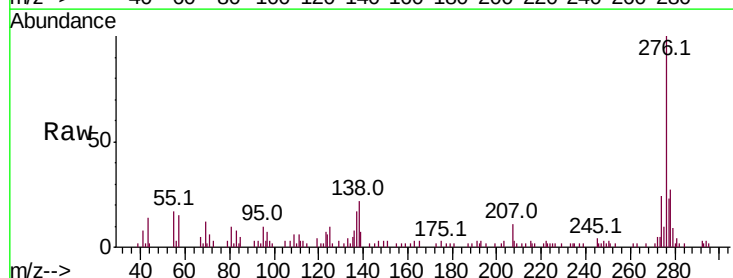
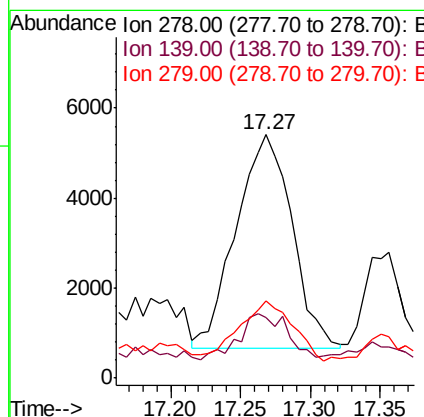
Manual Integrations
APPROVED

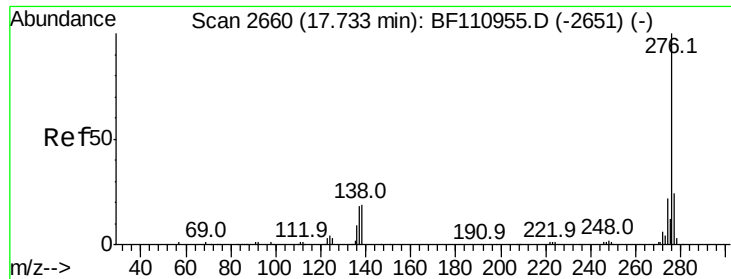
mohammad
11/28/2018 4:42:28 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.724 ng m
RT: 17.27 min Scan# 2581
Delta R.T. 0.02 min
Lab File: BF111017.D
Acq: 27 Nov 2018 18:42

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.9	12.7	19.1#
279	31.7	19.0	28.4#





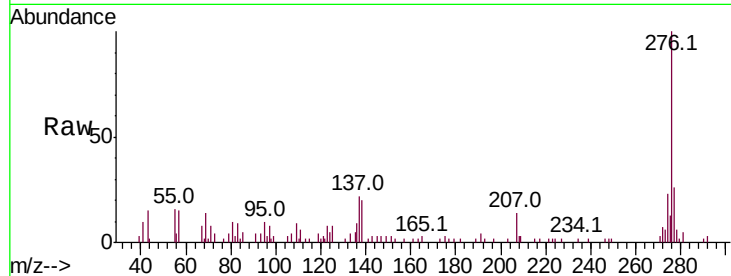
#92
 Benzo(a,h,i)perylene
 Concen: 16.582 ng
 RT: 17.76 min Scan# 2665
 Delta R.T. 0.02 min
 Lab File: BF111017.D
 Acq: 27 Nov 2018 18:42

Instrument :
 BNA_F
 ClientSampleId :
 B-20(1-10)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.8	28.2
138	19.9	16.0	24.0

Manual Integrations
 APPROVED

mohammad
 11/28/2018 4:42:28 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

