

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
 Data File : BF118163.D
 Acq On : 10 Dec 2019 13:18
 Operator : JU
 Sample : K6118-01 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-120619

Manual Integrations
 APPROVED

mohammad
 12/11/2019 12:31:34 PM

Quant Time: Dec 11 10:23:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	87267	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	344544	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	178657	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	293879	20.00	ng	0.00
76) Chrysene-d12	14.06	240	226527	20.00	ng	0.00
87) Perylene-d12	15.56	264	250012	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	241522	48.47	ng	0.00
7) Phenol-d6	6.49	99	305835	50.75	ng	0.00
23) Nitrobenzene-d5	7.43	82	179758	29.35	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	86938	40.06	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	358375	30.52	ng	0.00
79) Terphenyl-d14	13.00	244	329262	25.00	ng	0.00
Target Compounds						
49) Acenaphthylene	9.77	152	39947	2.390	ng	99
50) Dimethylphthalate	9.63	163	35473	2.688	ng	# 97
58) Fluorene	10.46	166	44961m	3.784	ng	
71) Phenanthrene	11.43	178	310179	19.855	ng	99
72) Anthracene	11.49	178	88405	5.673	ng	99
75) Fluoranthene	12.63	202	480449	30.080	ng	99
78) Pyrene	12.86	202	495823	27.775	ng	98
81) Benzo(a)anthracene	14.05	228	268324	17.130	ng	98
83) Chrysene	14.09	228	228780	15.290	ng	97
86) Indeno(1,2,3-cd)pyrene	17.07	276	84565	6.717	ng	96
88) Benzo(b)fluoranthene	15.12	252	273019m	16.512	ng	
89) Benzo(k)fluoranthene	15.14	252	105685m	6.653	ng	
90) Benzo(a)pyrene	15.49	252	210160	14.391	ng	98
92) Benzo(a,h,i)perylene	17.53	276	77746	6.459	ng	94

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

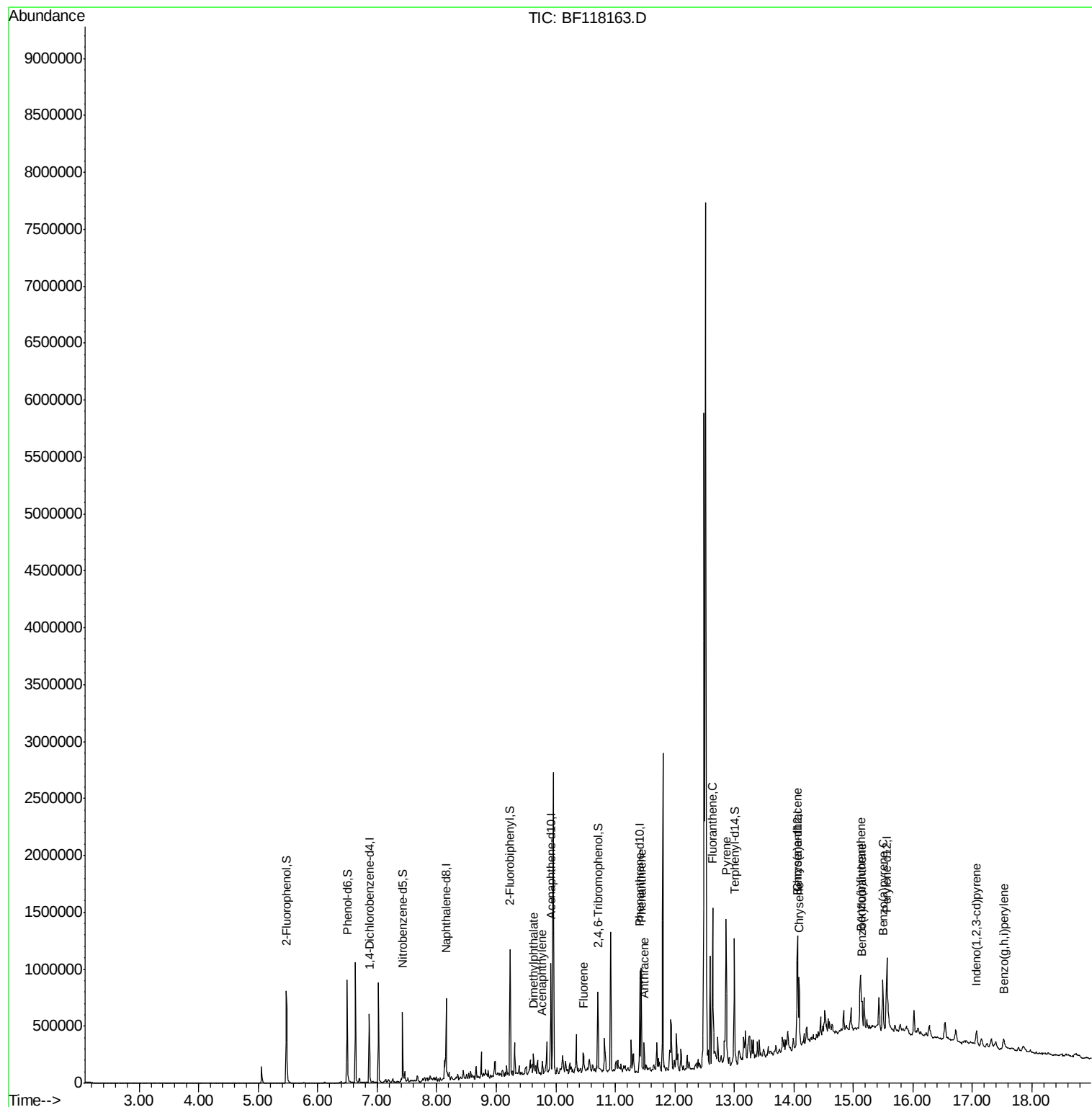
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
Data File : BF118163.D
Acq On : 10 Dec 2019 13:18
Operator : JU
Sample : K6118-01 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

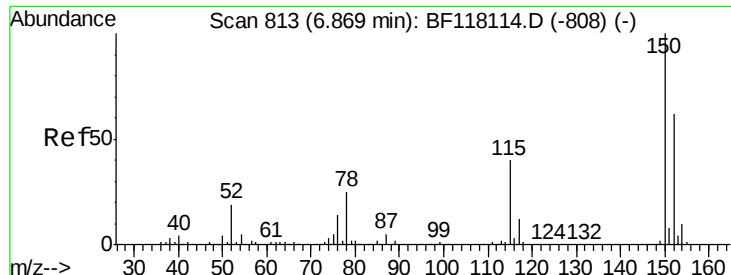
Instrument :
BNA_F
ClientSampleId :
SU-02-120619

Manual Integrations
APPROVED

mohammad
12/11/2019 12:31:34 PM

Quant Time: Dec 11 10:23:34 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 06 17:34:43 2019
Response via : Initial Calibration





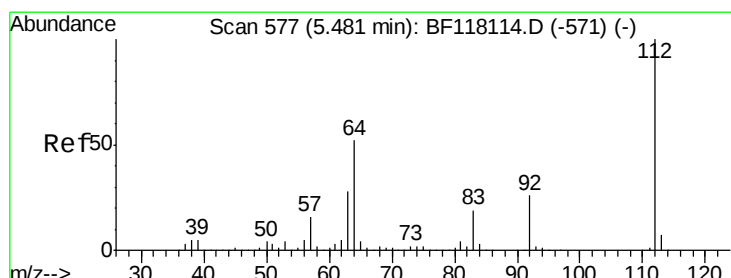
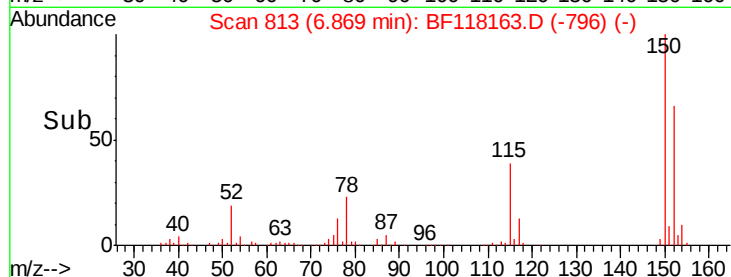
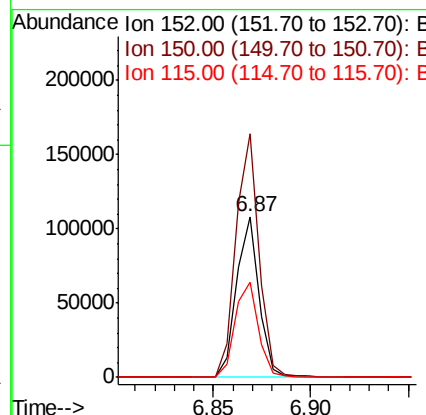
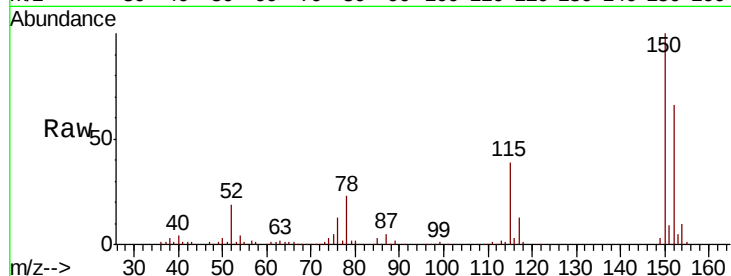
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.87 min Scan# 813
 Delta R.T. -0.00 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-120619

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.3	128.3	192.5
115	59.5	51.1	76.7

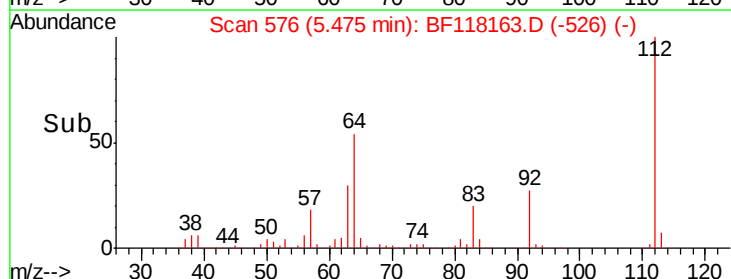
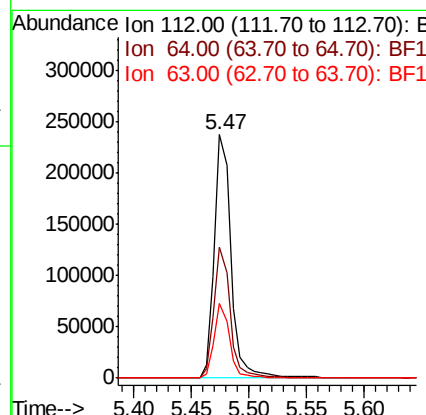
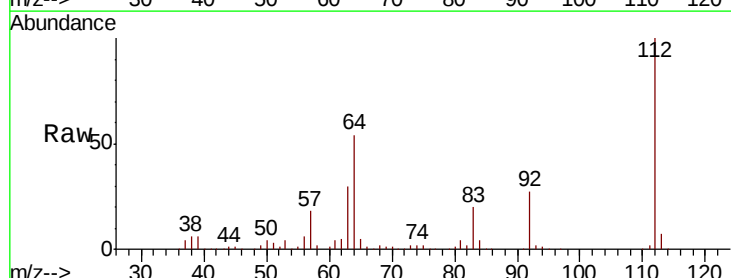
Manual Integrations
 APPROVED

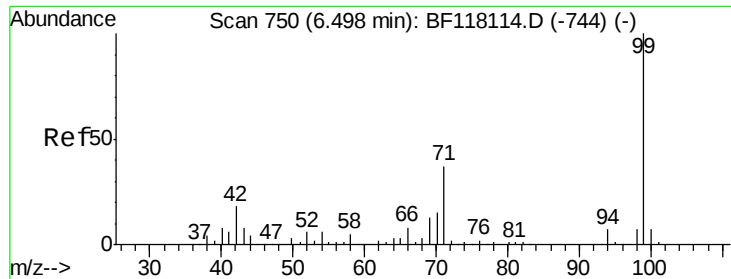
mohammad
 12/11/2019 12:31:34 PM



#5
 2-Fluorophenol
 Concen: 48.474 ng
 RT: 5.47 min Scan# 576
 Delta R.T. -0.01 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.6	41.3	61.9
63	30.4	22.4	33.6





#7

Phenol-d6

Concen: 50.748 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF118163.D

Acq: 10 Dec 2019 13:18

Instrument :

BNA_F

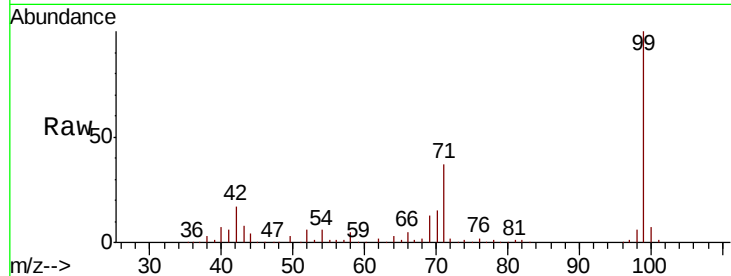
ClientSampleId :

SU-02-120619

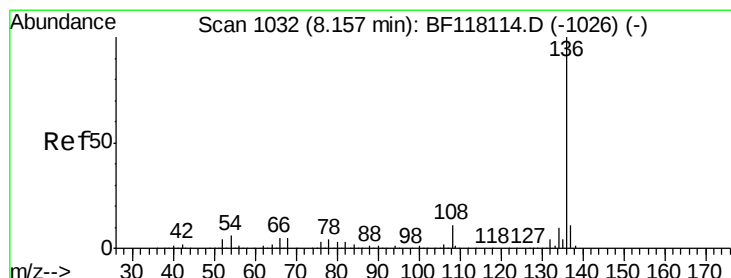
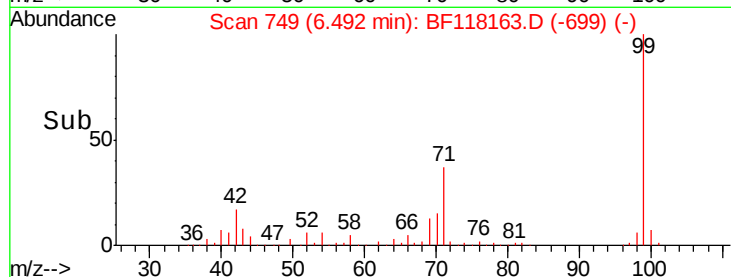
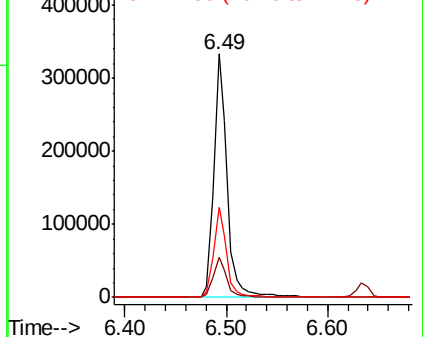
Tot Ion:	99	Resp:	305835
Ion Ratio	Lower	Upper	
99	100		
42	16.7	14.1	21.1
71	37.0	29.7	44.5

Manual Integrations
APPROVED

mohammad
12/11/2019 12:31:34 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

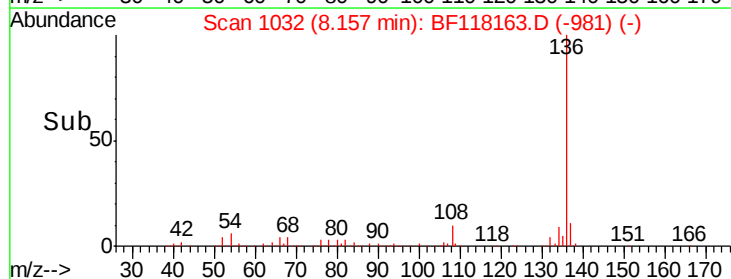
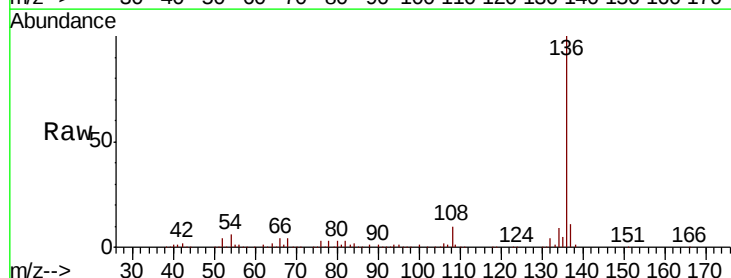
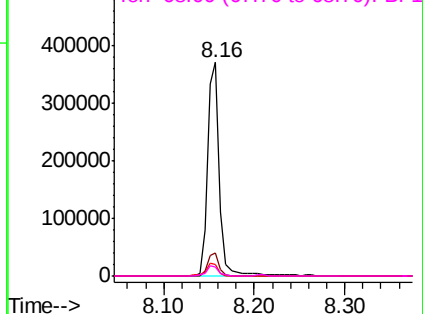
Delta R.T. -0.00 min

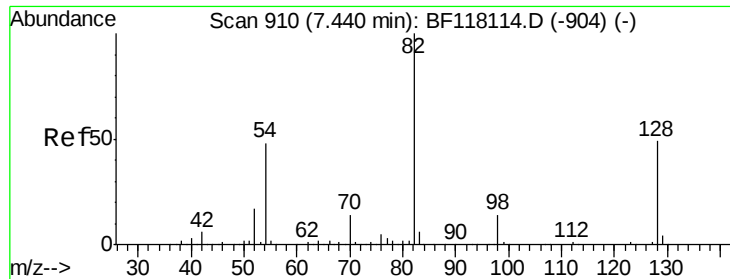
Lab File: BF118163.D

Acq: 10 Dec 2019 13:18

Tgt Ion:	136	Resp:	344544
Ion Ratio	Lower	Upper	
136	100		
137	10.6	9.0	13.6
54	5.7	5.0	7.6
68	4.4	3.8	5.8

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





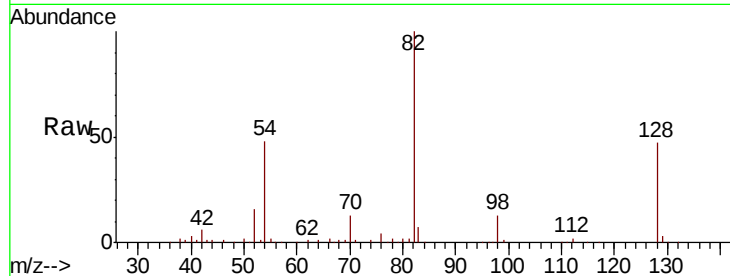
#23
 Nitrobenzene-d5
 Concen: 29.351 ng
 RT: 7.43 min Scan# 908
 Delta R.T. -0.01 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-120619

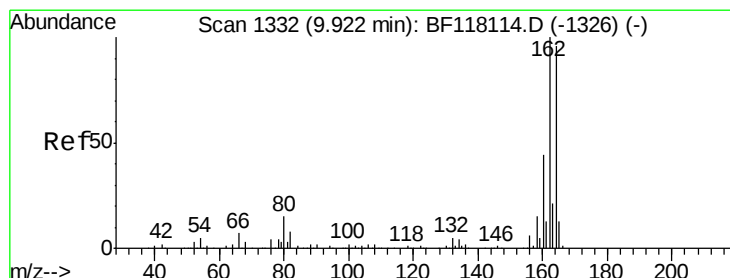
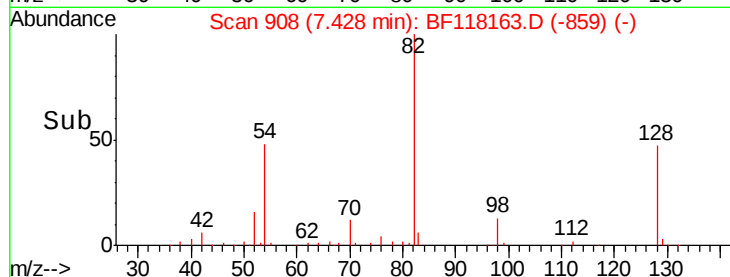
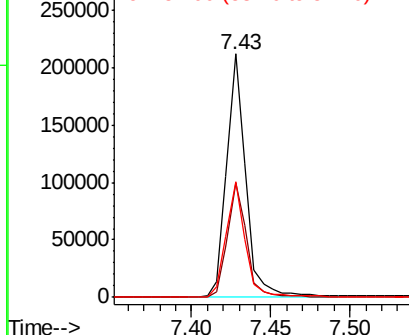
Tot Ion	Ratio	Lower	Upper
82	100		
128	46.8	39.1	58.7
54	47.6	38.2	57.2

Manual Integrations
 APPROVED

mohammad
 12/11/2019 12:31:34 PM



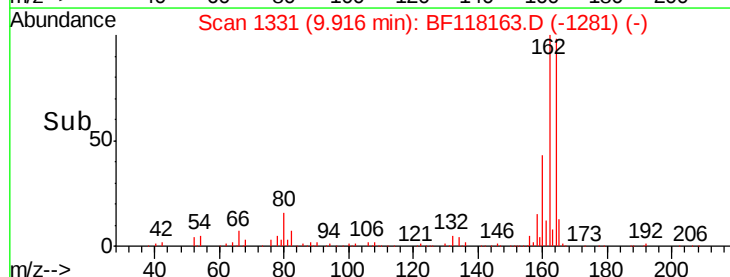
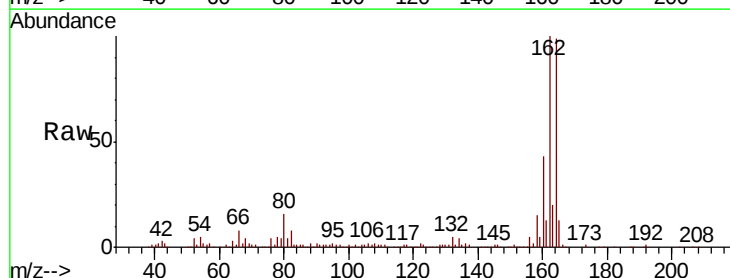
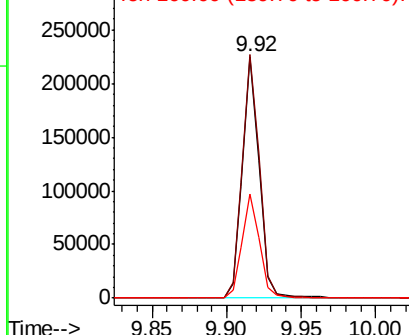
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

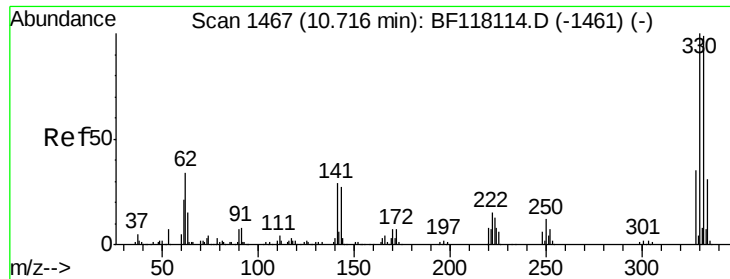


#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	83.4	125.0
160	43.2	36.6	54.8

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: 40.057 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF118163.D

Acq: 10 Dec 2019 13:18

Instrument :

BNA_F

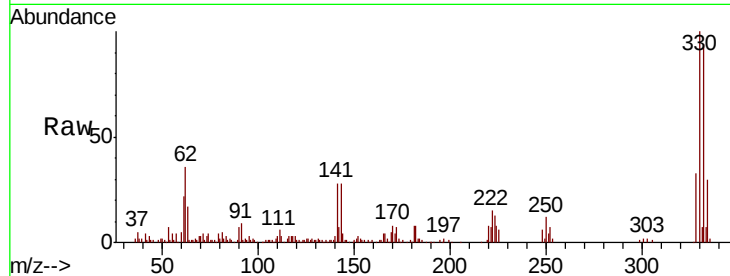
ClientSampleId :

SU-02-120619

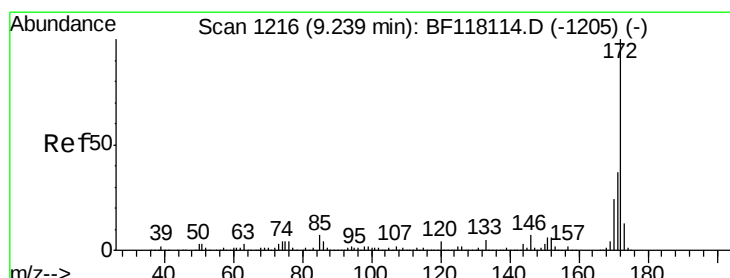
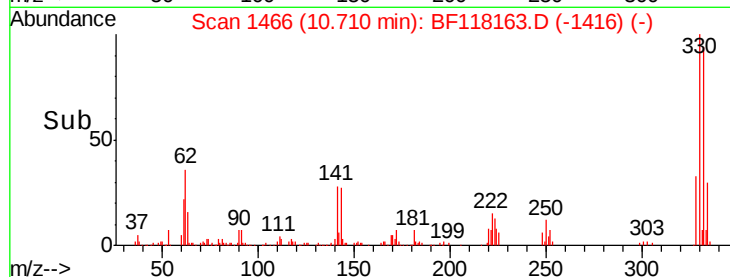
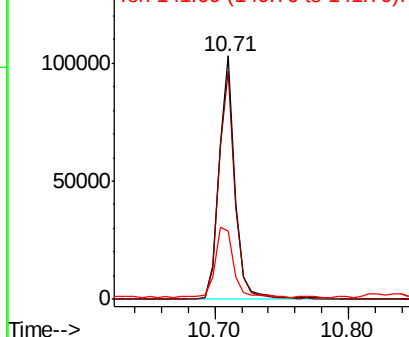
Tot Ion:	330	Resp:	86938
Ion Ratio	Lower	Upper	
330	100		
332	94.7	78.1	117.1
141	33.8	26.9	40.3

Manual Integrations
APPROVED

mohammad
12/11/2019 12:31:34 PM



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: 30.523 ng

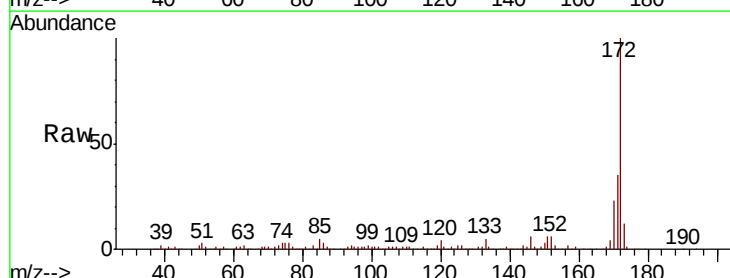
RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

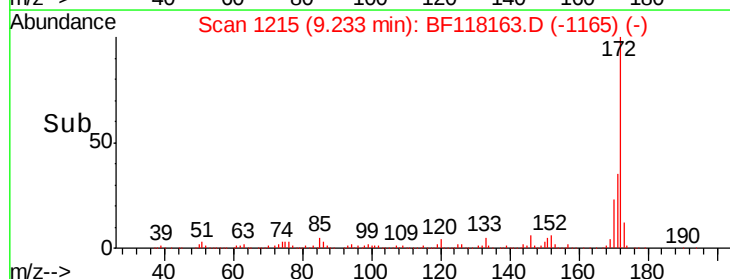
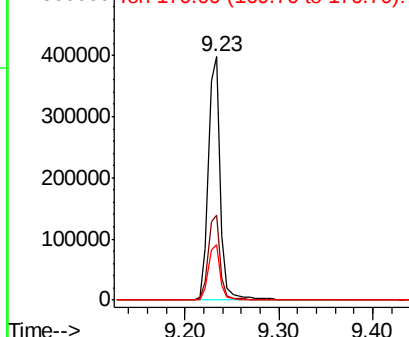
Lab File: BF118163.D

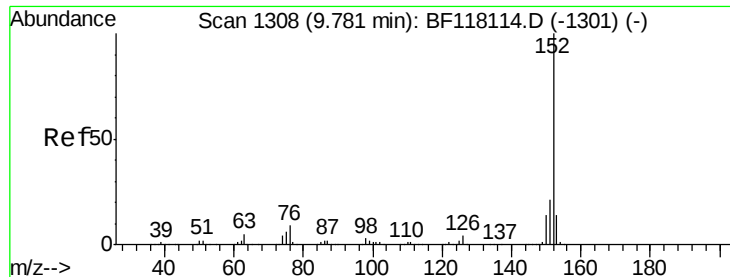
Acq: 10 Dec 2019 13:18

Tgt Ion:	172	Resp:	358375
Ion Ratio	Lower	Upper	
172	100		
171	34.7	29.2	43.8
170	22.5	19.4	29.2



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





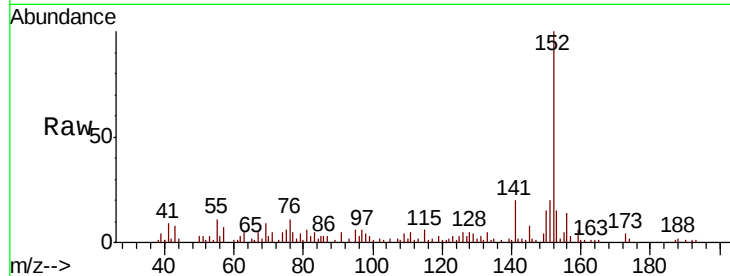
#49
Acenaphthylene
Concen: 2.390 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Instrument :
BNA_F
ClientSampleId :
SU-02-120619

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	14.7	10.8	16.2

Manual Integrations
APPROVED

mohammad
12/11/2019 12:31:34 PM

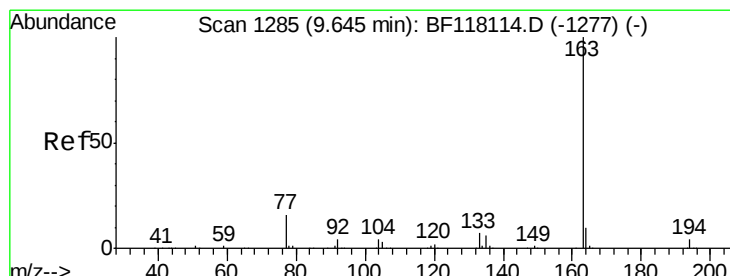
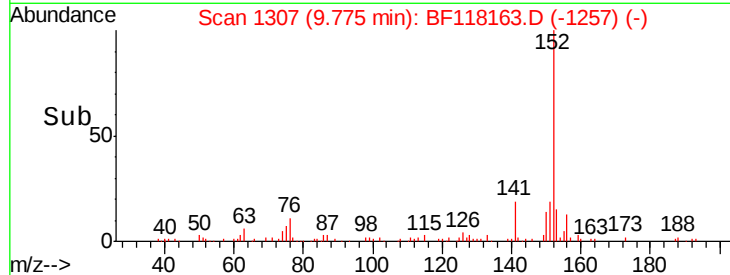
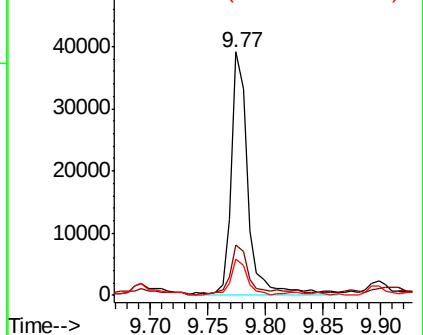


Abundance

Ion 152.00 (151.70 to 152.70): E

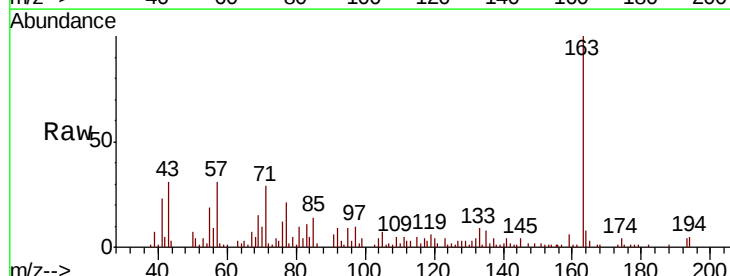
Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50
Dimethylphthalate
Concen: 2.688 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.7	3.1	4.7#
164	8.4	7.7	11.5

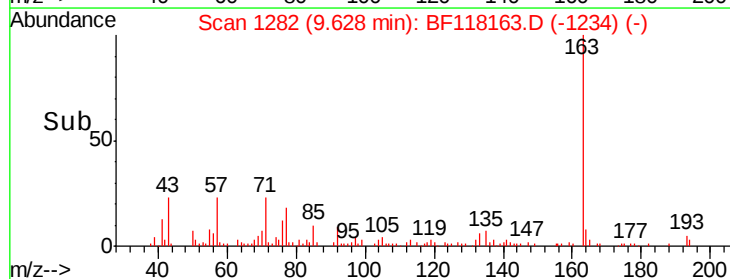
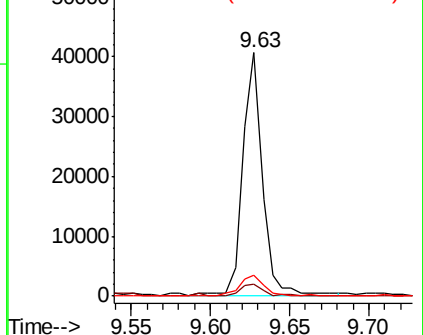


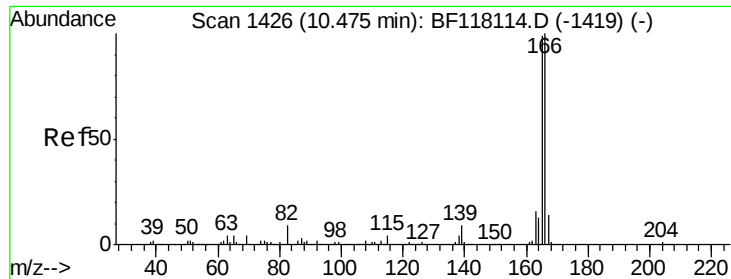
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





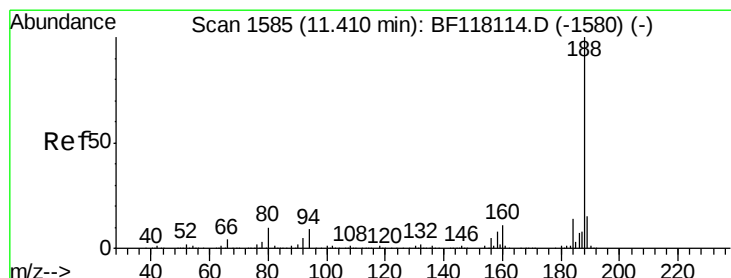
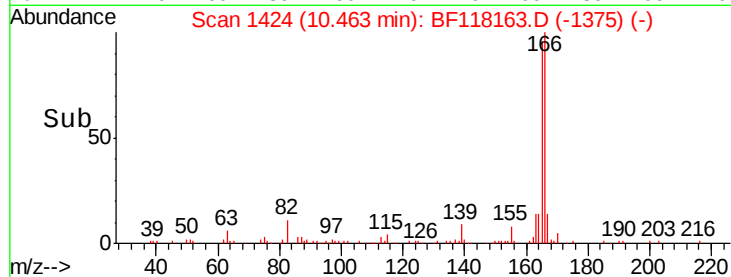
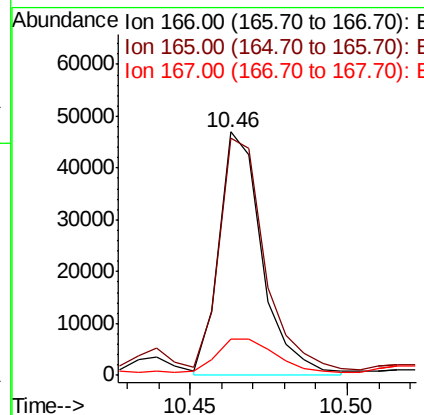
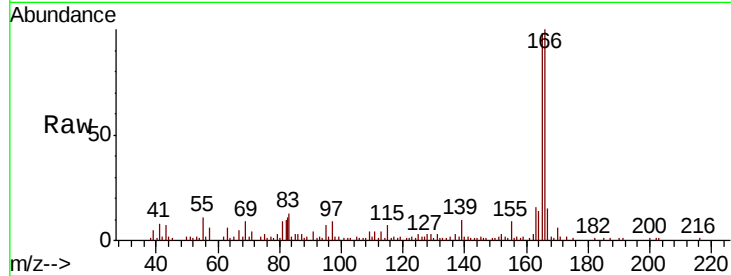
#58
 Fluorene
 Concen: 3.784 ng/ml
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-120619

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	97.6	79.0	118.4	
167	15.0	10.9	16.3	

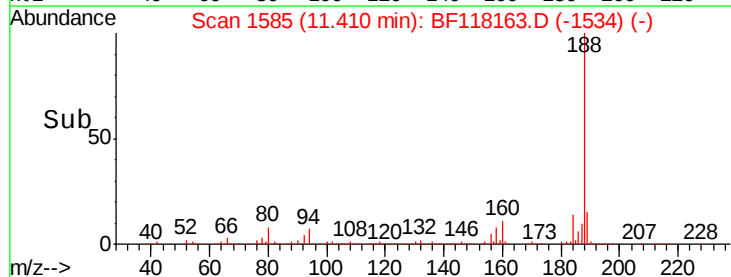
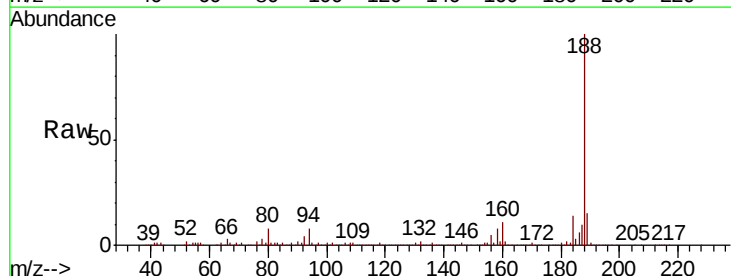
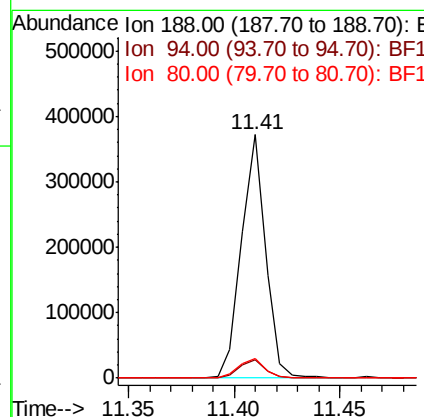
Manual Integrations
 APPROVED

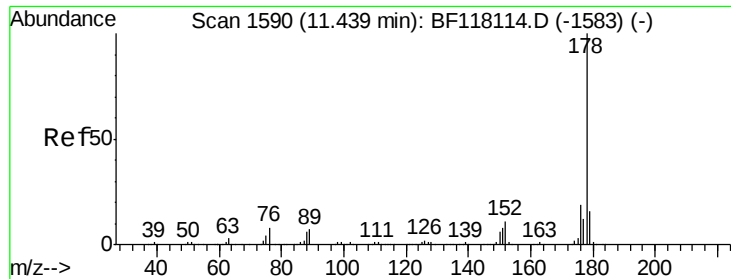
mohammad
 12/11/2019 12:31:34 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	7.5	7.1	10.7	
80	8.1	7.9	11.9	





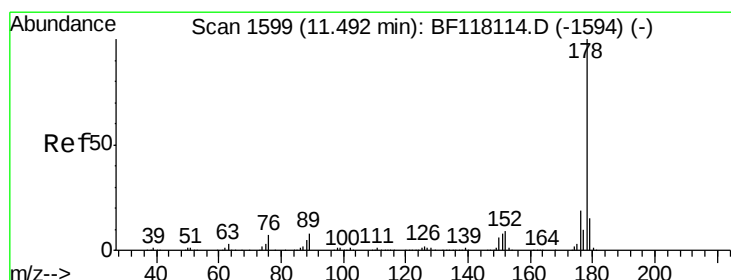
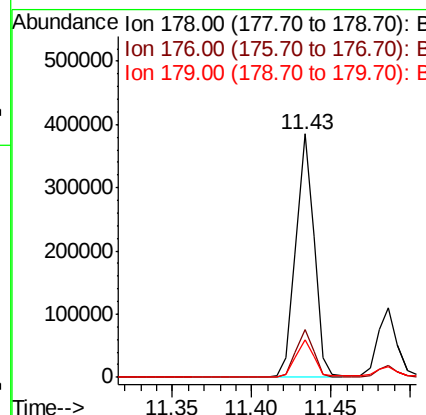
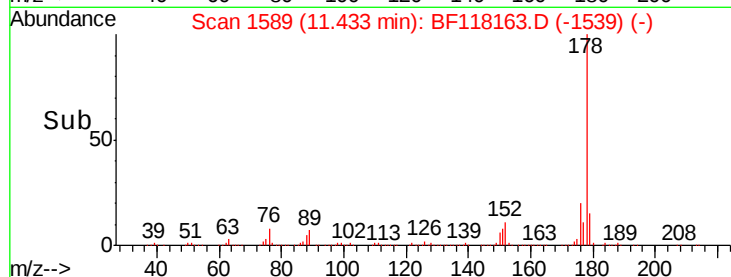
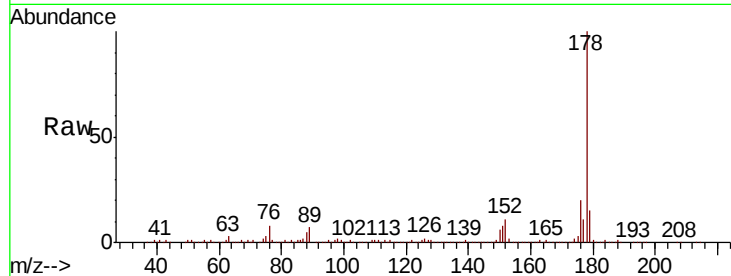
#71
Phenanthrene
Concen: 19.855 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Instrument :
BNA_F
ClientSampleId :
SU-02-120619

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.2	12.6	18.8

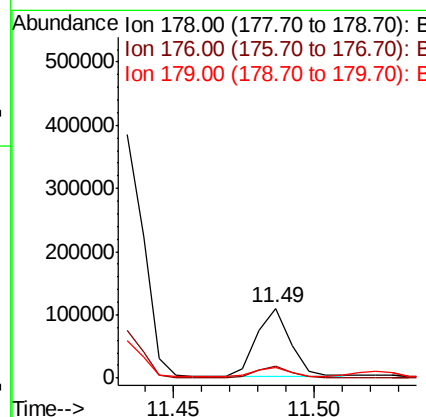
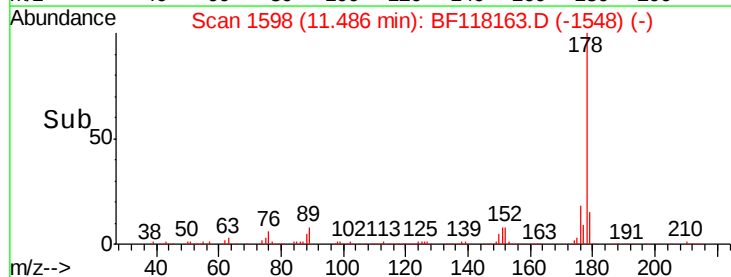
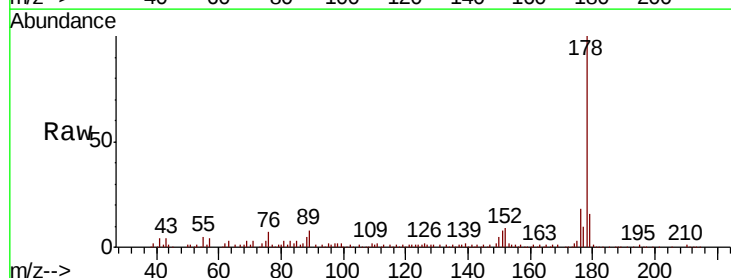
Manual Integrations
APPROVED

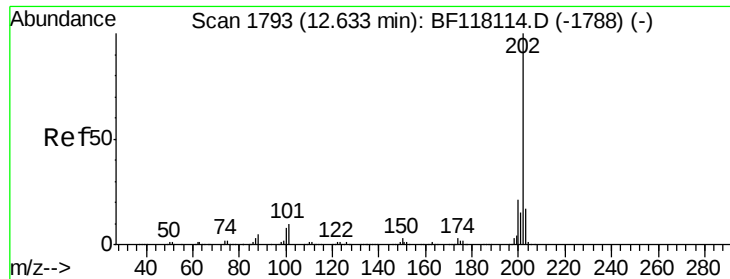
mohammad
12/11/2019 12:31:34 PM



#72
Anthracene
Concen: 5.673 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.0	22.6
179	15.6	12.2	18.4





#75

Fluoranthene

Concen: 30.080 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF118163.D

Acq: 10 Dec 2019 13:18

Instrument :

BNA_F

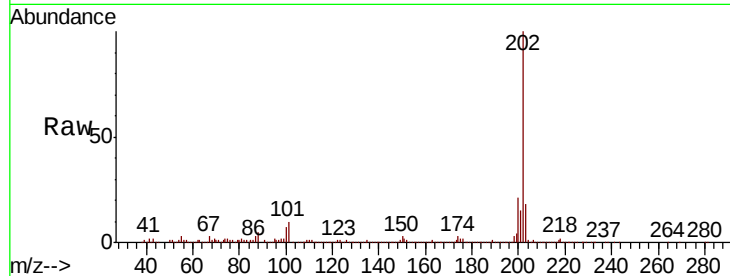
ClientSampleId :

SU-02-120619

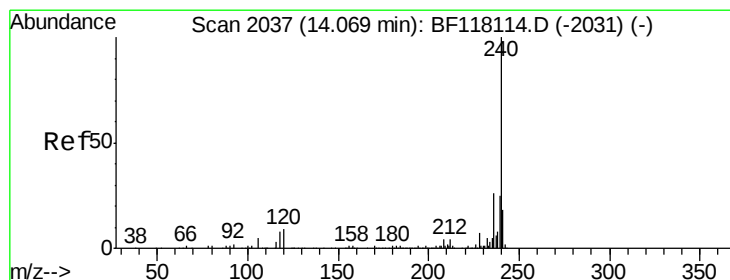
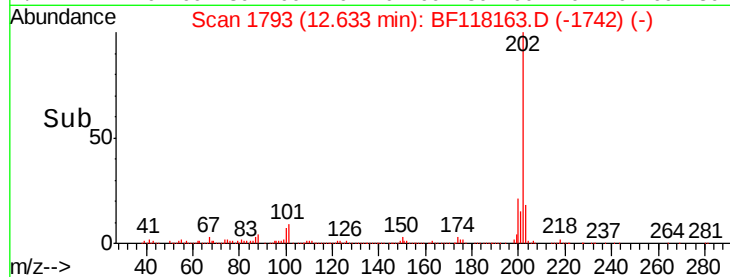
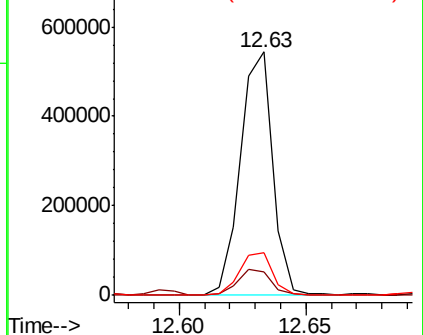
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		480449		
101	9.5	0.0	30.4		
203	17.6	0.0	37.2		

Manual Integrations
APPROVED

mohammad
12/11/2019 12:31:34 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

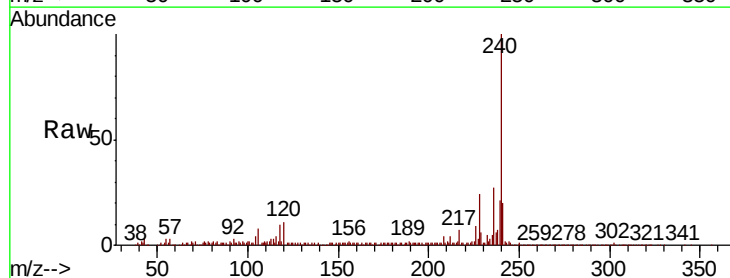
RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

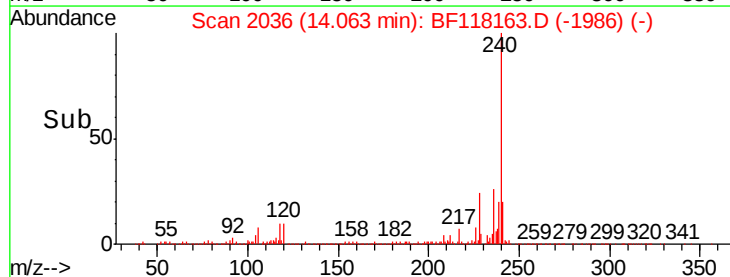
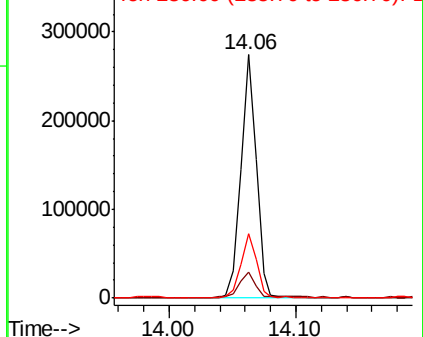
Lab File: BF118163.D

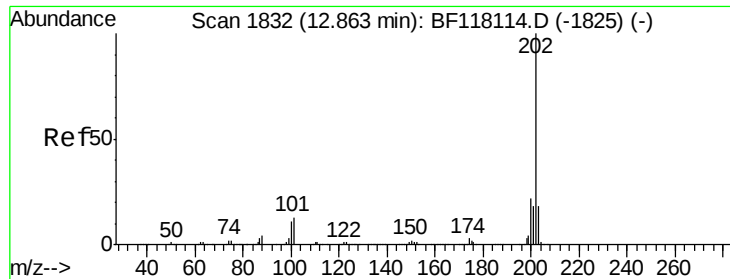
Acq: 10 Dec 2019 13:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		226527		
120	10.7	7.1	10.7#		
236	26.6	21.0	31.6		



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





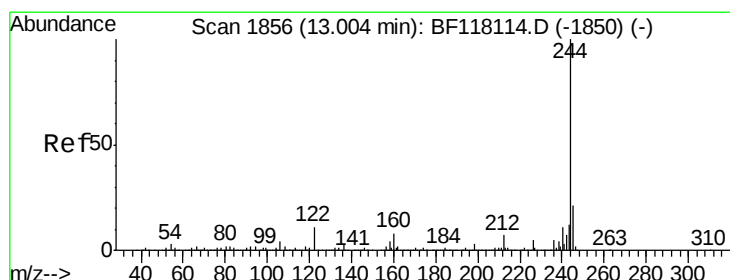
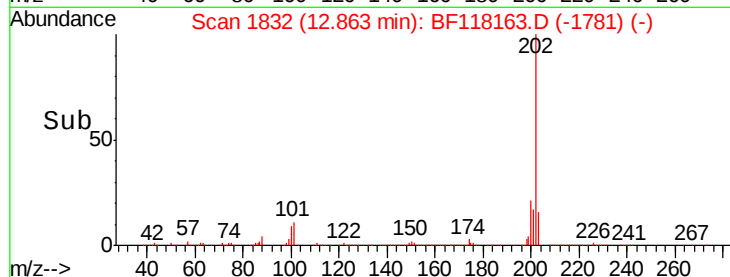
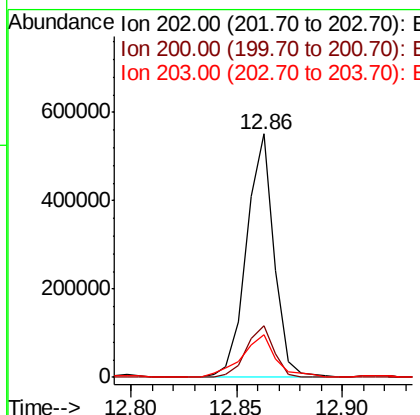
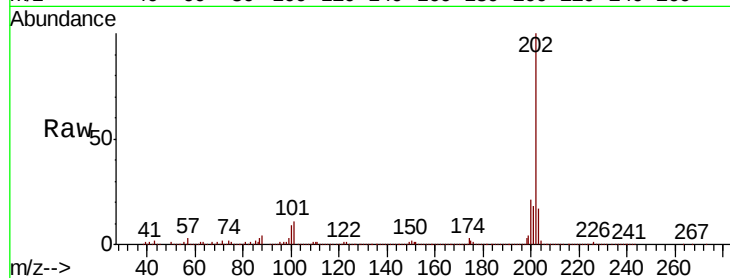
#78
Pvrene
Concen: 27.775 ng
RT: 12.86 min Scan# 1832
Delta R.T. -0.00 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Instrument :
BNA_F
ClientSampleId :
SU-02-120619

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.5	26.3
203	17.3	14.6	21.8

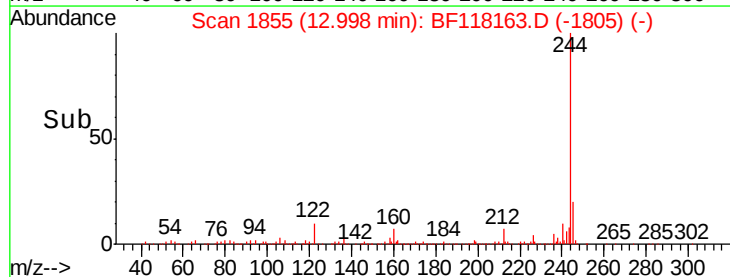
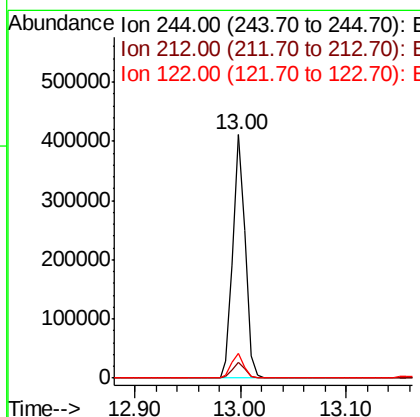
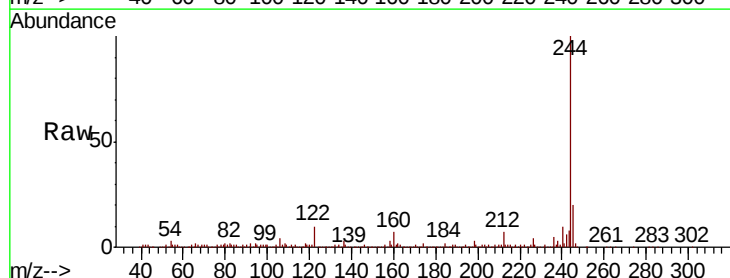
Manual Integrations
APPROVED

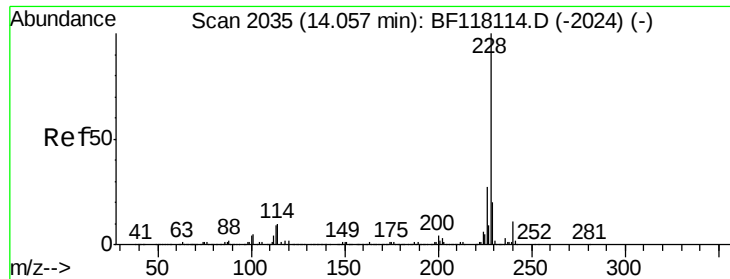
mohammad
12/11/2019 12:31:34 PM



#79
Terphenyl-d14
Concen: 24.995 ng
RT: 13.00 min Scan# 1855
Delta R.T. -0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.9	8.9
122	10.2	9.0	13.6





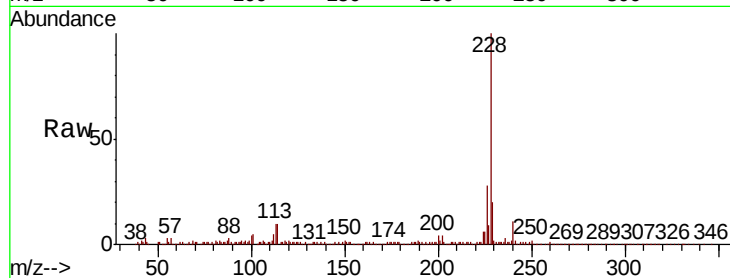
#81
Benzo(a)anthracene
Concen: 17.130 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Instrument :
BNA_F
ClientSampleId :
SU-02-120619

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	21.8	32.8
229	20.4	15.8	23.8

Manual Integrations
APPROVED

mohammad
12/11/2019 12:31:34 PM

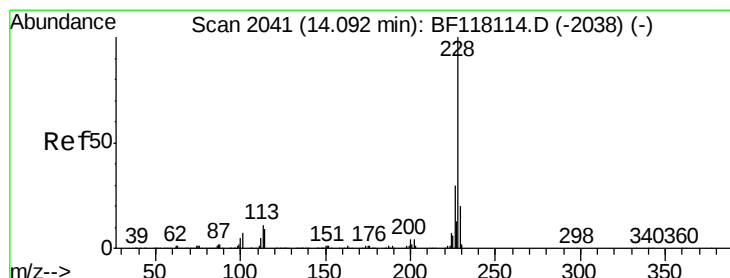
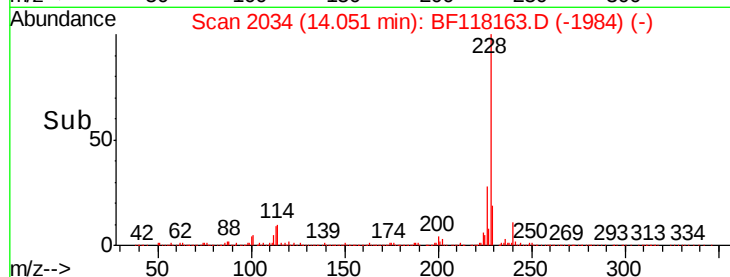
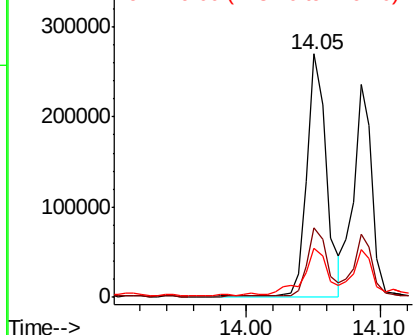


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 15.290 ng
RT: 14.09 min Scan# 2040
Delta R.T. -0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

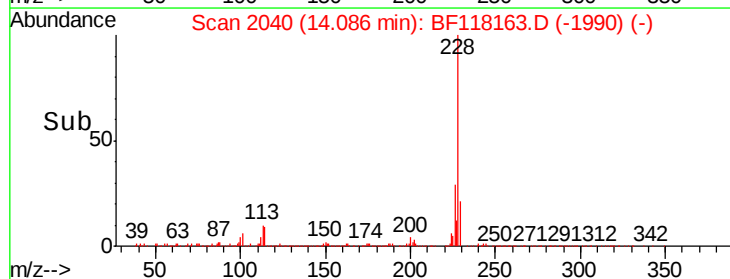
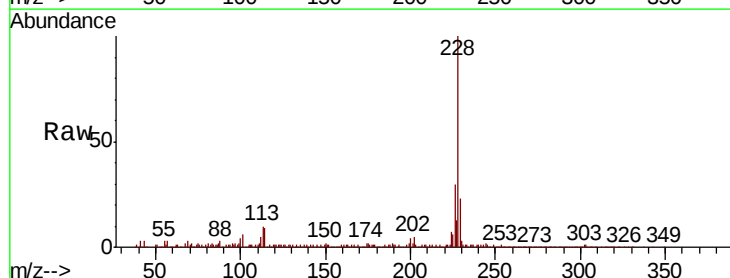
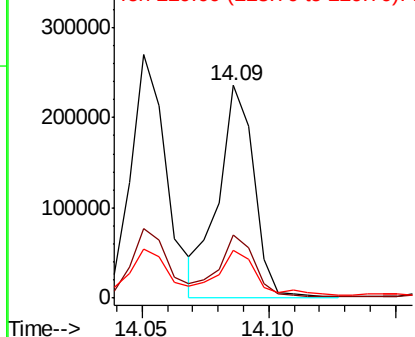
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.8	35.8
229	22.8	15.7	23.5

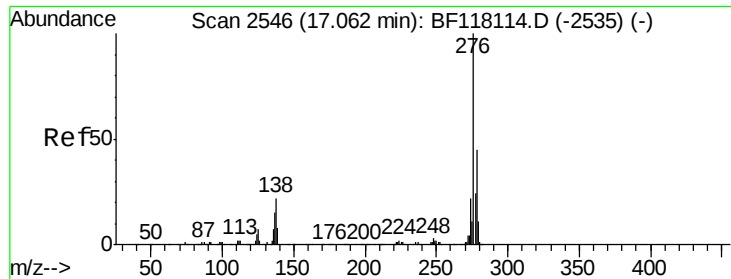
Abundance

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





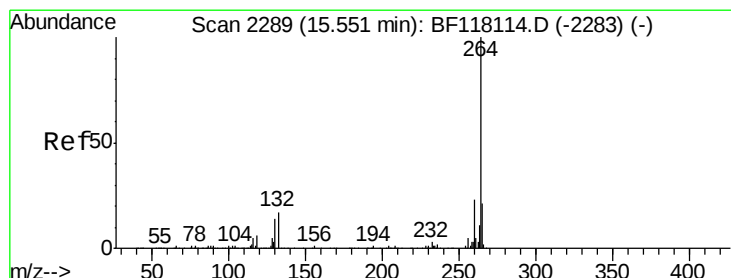
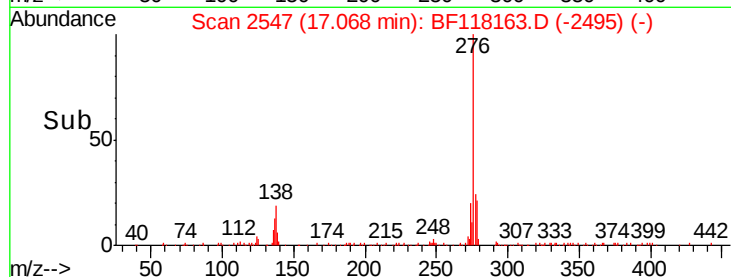
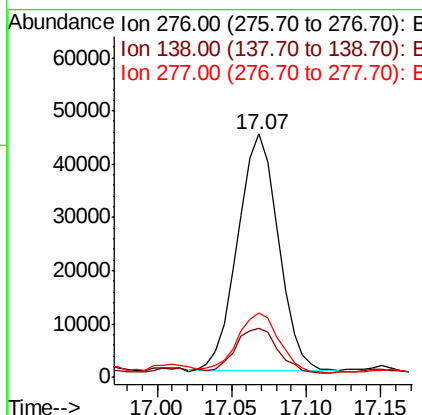
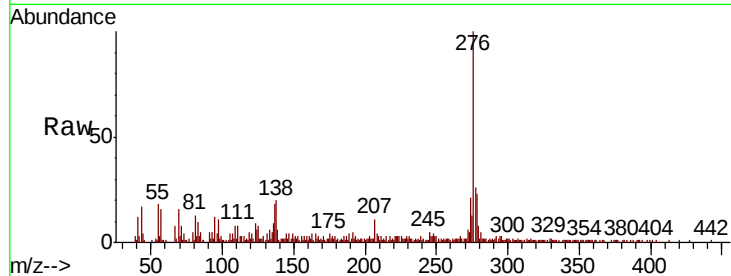
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.717 ng
 RT: 17.07 min Scan# 2547
 Delta R.T. 0.01 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-120619

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.8	18.9	28.3
277	25.8	20.4	30.6

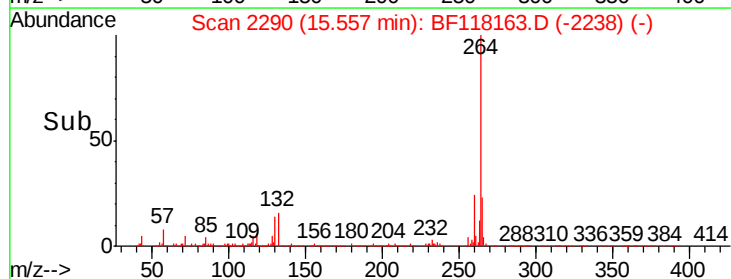
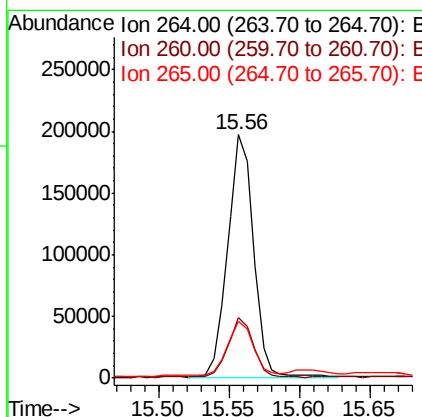
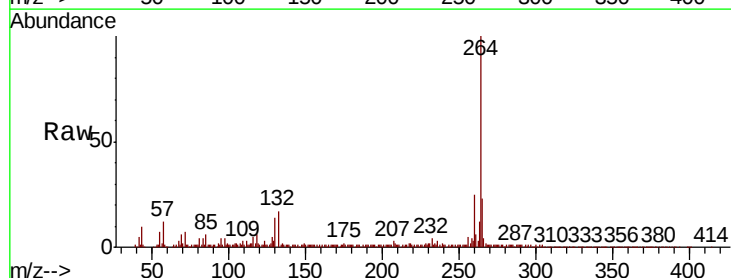
Manual Integrations
 APPROVED

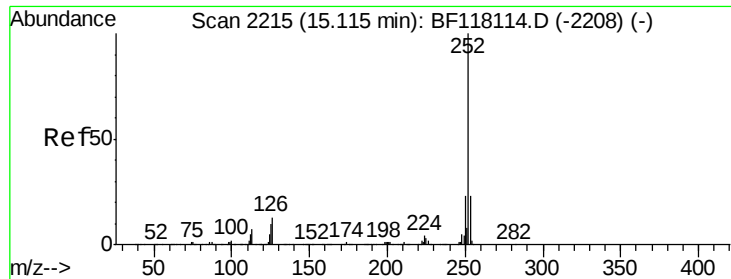
mohammad
 12/11/2019 12:31:34 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.56 min Scan# 2290
 Delta R.T. 0.01 min
 Lab File: BF118163.D
 Acq: 10 Dec 2019 13:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	18.6	28.0
265	23.2	16.8	25.2





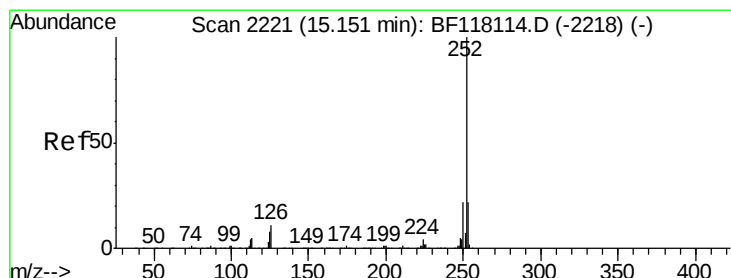
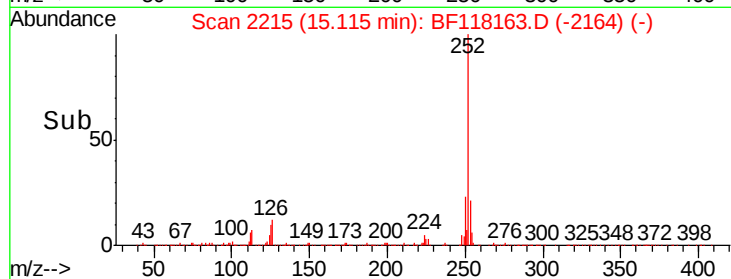
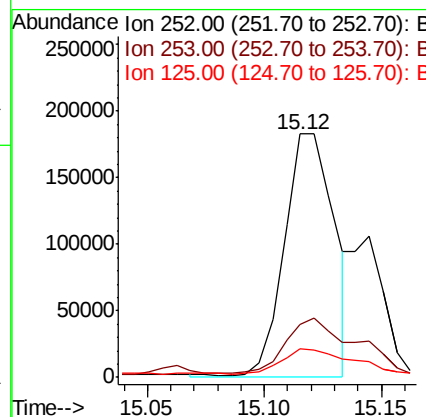
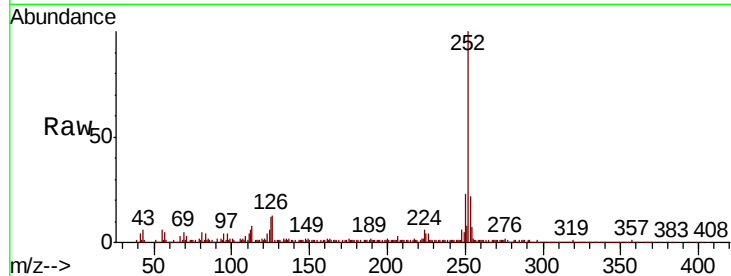
#88
Benzo(b)fluoranthene
Concen: 16.512 ng m
RT: 15.12 min Scan# 2215
Delta R.T. -0.00 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Instrument :
BNA_F
ClientSampleId :
SU-02-120619

Tot Ion:	252	Resp:	273019
Ion Ratio	Lower	Upper	
252	100		
253	21.9	18.2	27.4
125	11.6	8.3	12.5

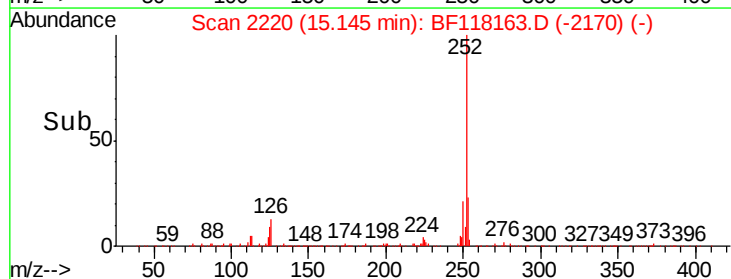
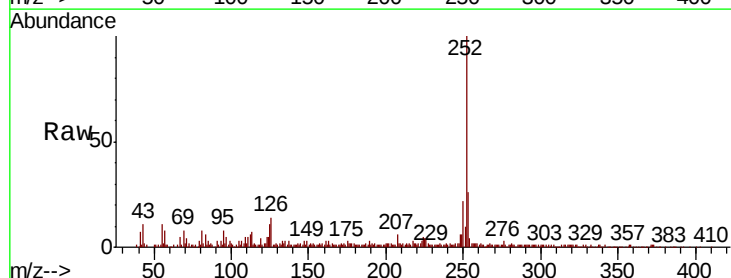
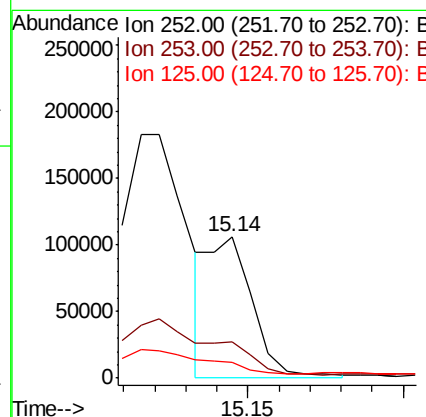
Manual Integrations
APPROVED

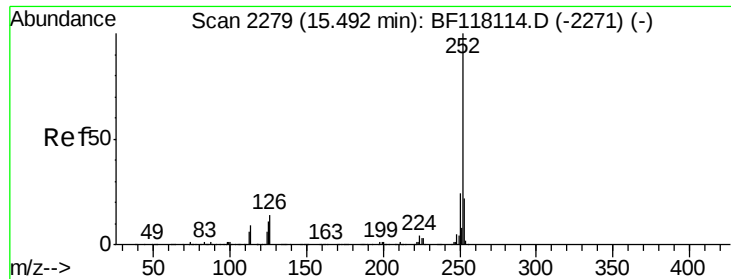
mohammad
12/11/2019 12:31:34 PM



#89
Benzo(k)fluoranthene
Concen: 6.653 ng m
RT: 15.14 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Tgt Ion:	252	Resp:	105685
Ion Ratio	Lower	Upper	
252	100		
253	26.0	17.6	26.4
125	11.3	6.7	10.1#





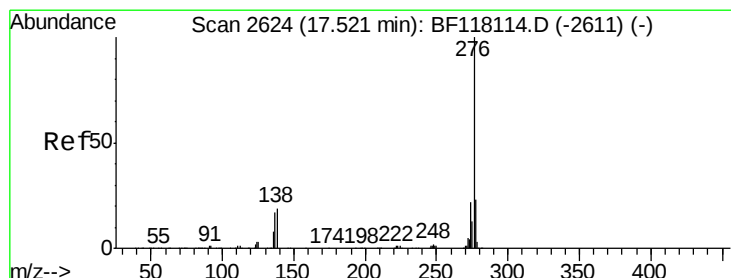
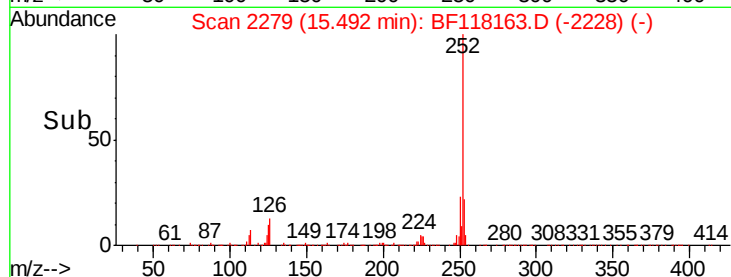
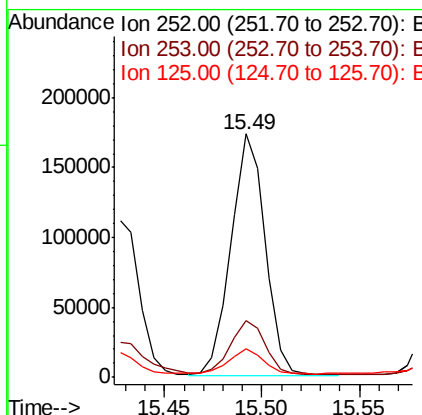
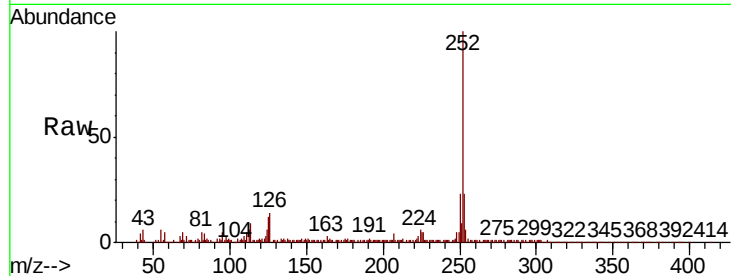
#90
Benzo(a)pyrene
Concen: 14.391 ng
RT: 15.49 min Scan# 2279
Delta R.T. -0.00 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Instrument :
BNA_F
ClientSampleId :
SU-02-120619

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	11.5	9.1	13.7

Manual Integrations
APPROVED

mohammad
12/11/2019 12:31:34 PM



#92
Benzo(g,h,i)perylene
Concen: 6.459 ng
RT: 17.53 min Scan# 2625
Delta R.T. 0.01 min
Lab File: BF118163.D
Acq: 10 Dec 2019 13:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.6	18.2	27.4
138	20.7	15.5	23.3

