

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
 Data File : BF116869.D
 Acq On : 6 Sep 2019 19:36
 Operator : HP/JU
 Sample : K4663-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-090519

Manual Integrations
 APPROVED

mohammad
 9/12/2019 9:25:27 AM

Quant Time: Sep 07 05:19:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	77924	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	318553	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	150854	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	202664	20.00	ng	0.00
76) Chrysene-d12	14.00	240	149413	20.00	ng	0.00
87) Perylene-d12	15.46	264	137173	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	85320	17.74	ng	0.00
7) Phenol-d6	6.47	99	118396	18.75	ng	-0.01
23) Nitrobenzene-d5	7.40	82	74145	13.29	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	16576	16.44	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	131190	14.67	ng	-0.01
79) Terphenyl-d14	12.94	244	91219	11.29	ng	0.00
Target Compounds						
71) Phenanthrene	11.39	178	148493	13.162	ng	Qvalue 97
72) Anthracene	11.44	178	33551	2.954	ng	97
73) Carbazole	11.59	167	27800	2.570	ng	98
75) Fluoranthene	12.57	202	185162	16.701	ng	100
78) Pyrene	12.80	202	141251	10.635	ng	98
81) Benzo(a)anthracene	13.99	228	62698	6.630	ng	96
83) Chrysene	14.02	228	62940	6.460	ng	97
86) Indeno(1,2,3-cd)pyrene	16.92	276	19699	2.517	ng	93
88) Benzo(b)fluoranthene	15.03	252	60624m	7.310	ng	
89) Benzo(k)fluoranthene	15.06	252	20312m	2.686	ng	
90) Benzo(a)pyrene	15.40	252	37764	5.234	ng	# 97
92) Benzo(a,h,i)perylene	17.36	276	15631	2.427	ng	# 92

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

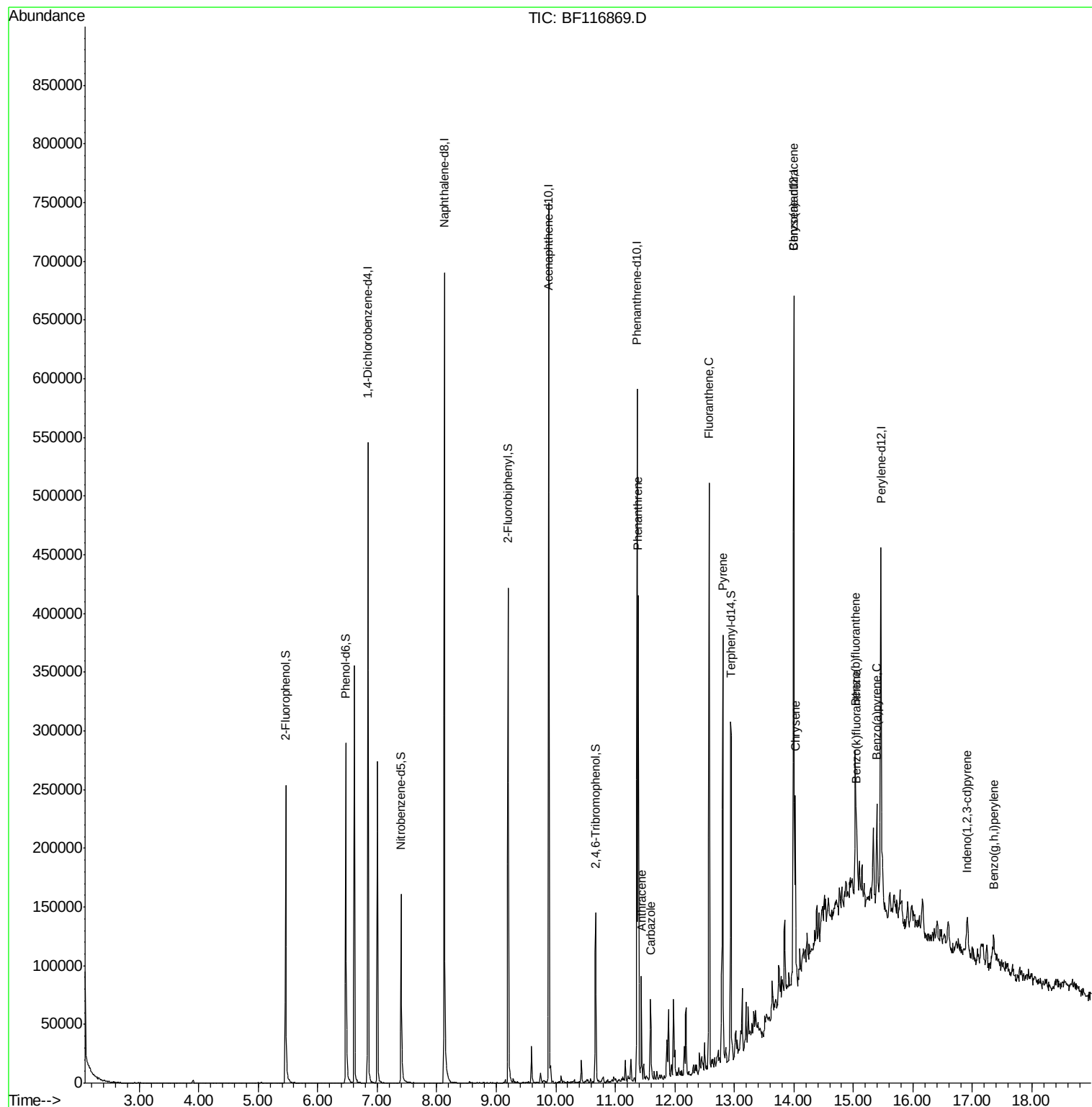
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

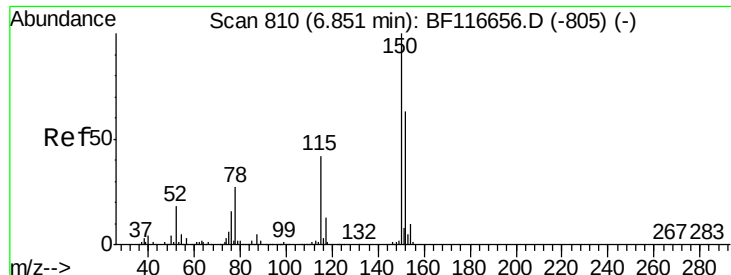
Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:27 AM

Quant Time: Sep 07 05:19:30 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 30 20:02:30 2019
Response via : Initial Calibration





#1

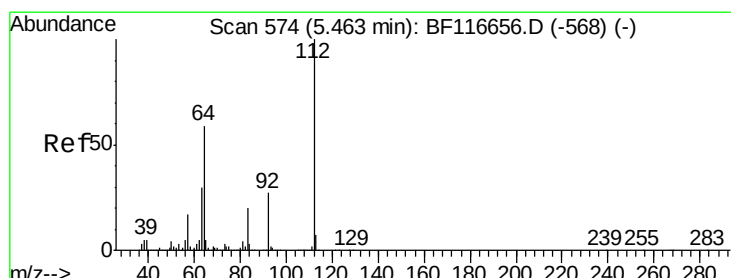
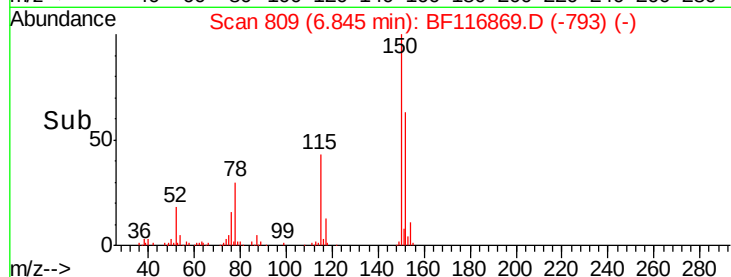
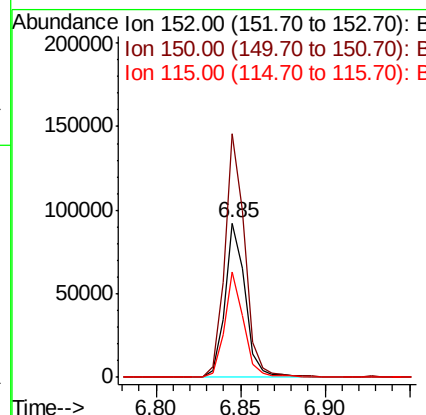
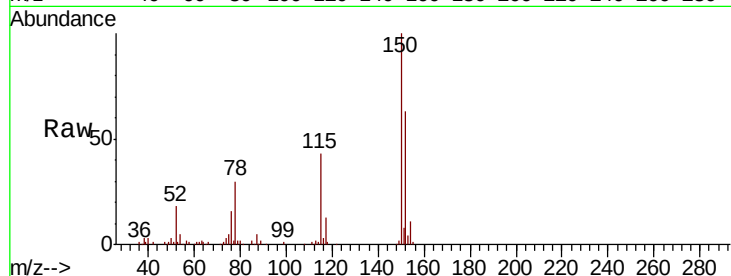
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.4	186.6
115	68.1	49.9	74.9

Manual Integrations
APPROVED

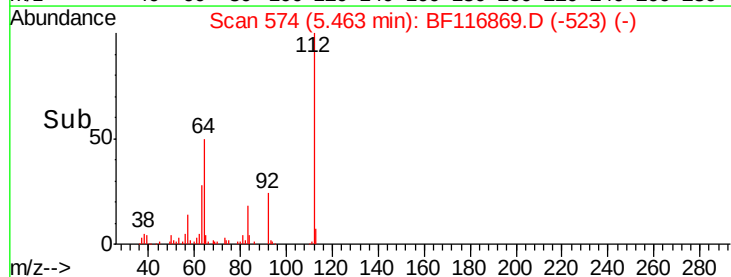
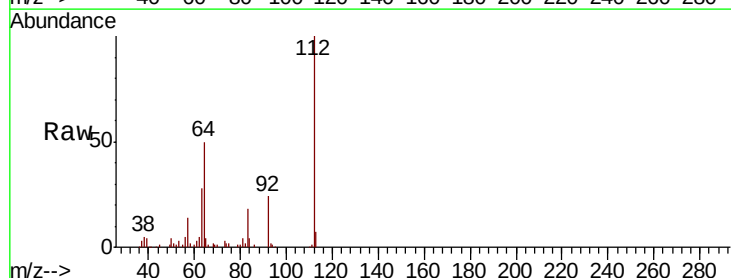
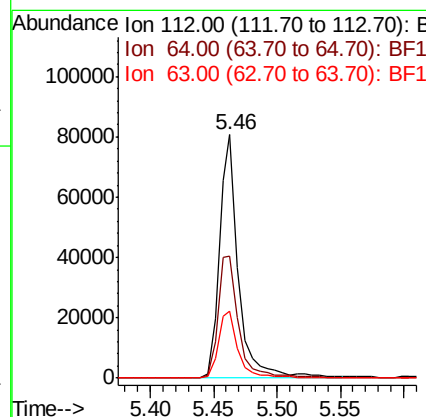
mohammad
9/12/2019 9:25:27 AM

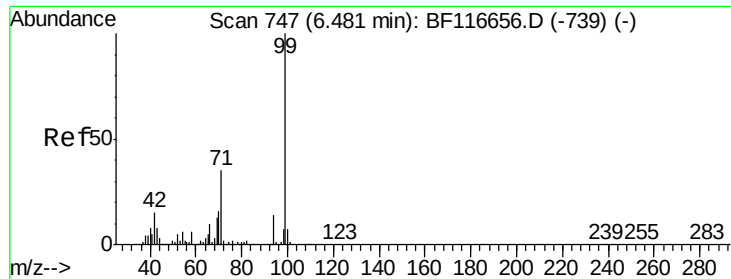


#5

2-Fluorophenol
Concen: 17.738 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.3	47.1	70.7
63	27.5	24.9	37.3





#7

Phenol-d6

Concen: 18.745 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Instrument :

BNA_F

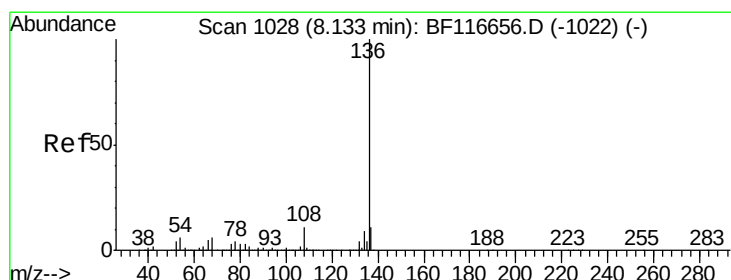
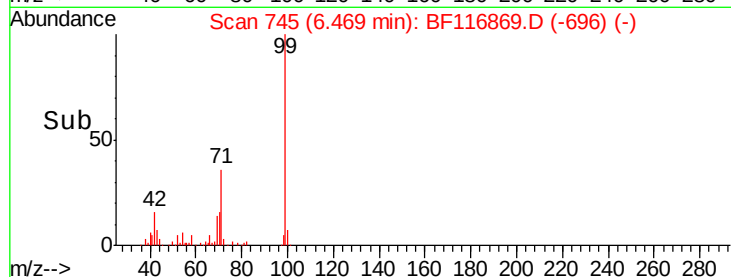
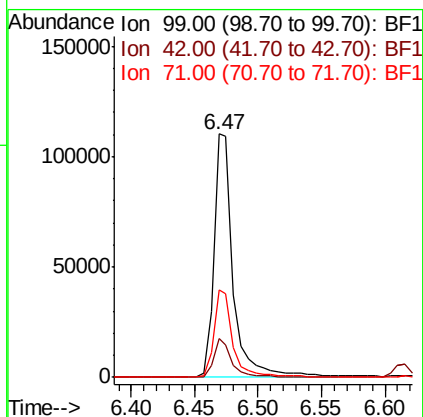
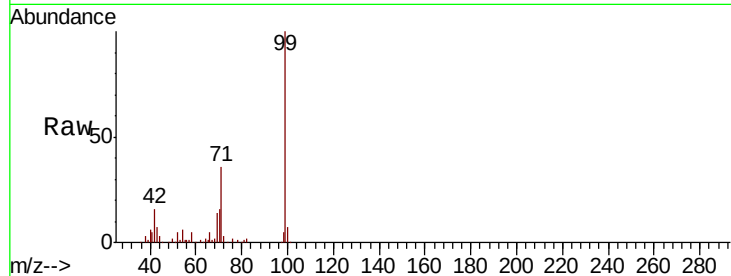
ClientSampled :

OK-03-090519

Tot Ion:	99	Resp:	118396
Ion Ratio	Lower	Upper	
99	100		
42	16.1	13.7	20.5
71	35.9	30.8	46.2

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:27 AM



#21

Naphthalene-d8

Concen: 20.000 ng

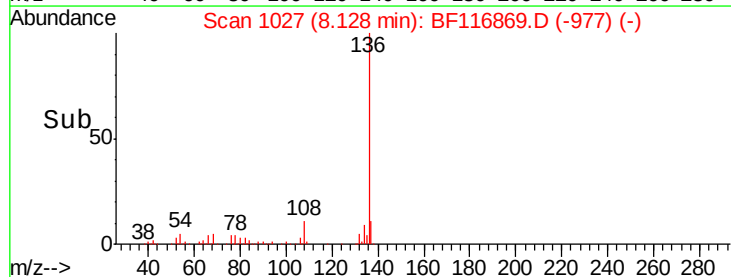
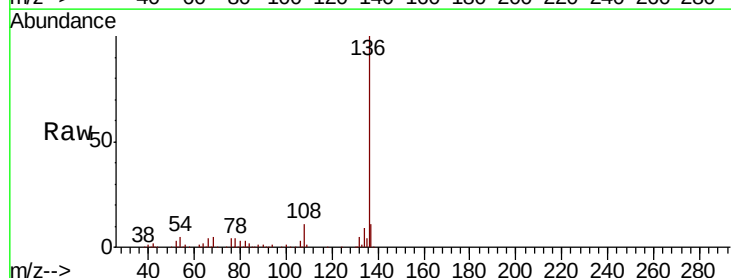
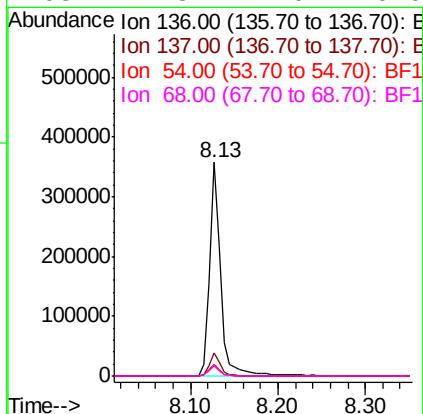
RT: 8.13 min Scan# 1027

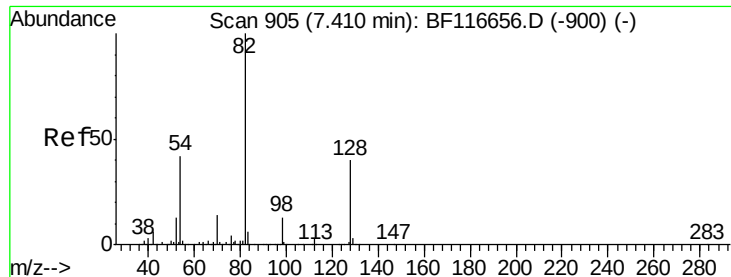
Delta R.T. -0.01 min

Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Tgt Ion:	136	Resp:	318553
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	5.4	4.8	7.2
68	4.8	4.0	6.0





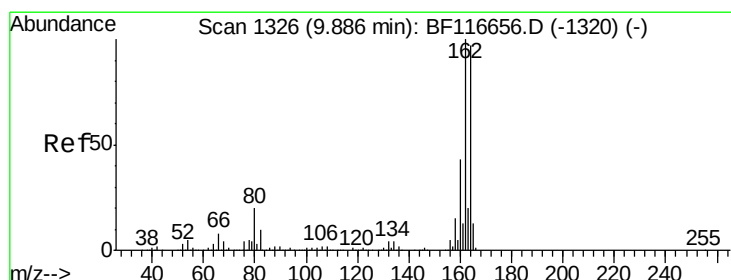
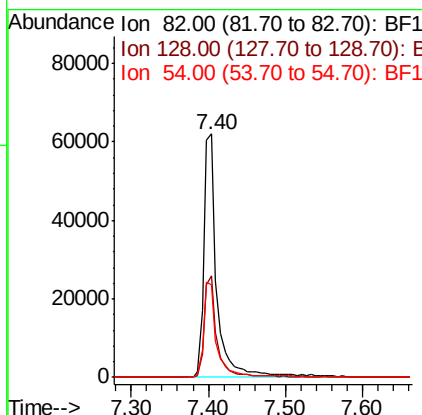
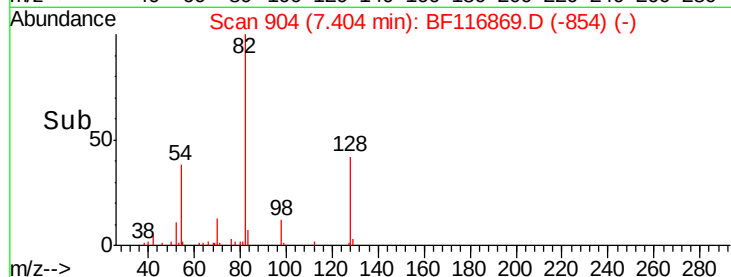
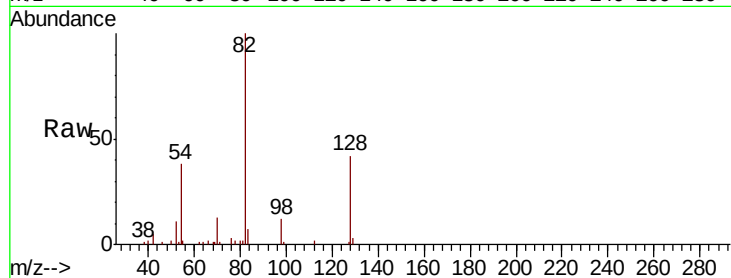
#23
Nitrobenzene-d5
Concen: 13.287 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.7	32.8	49.2
54	37.8	36.9	55.3

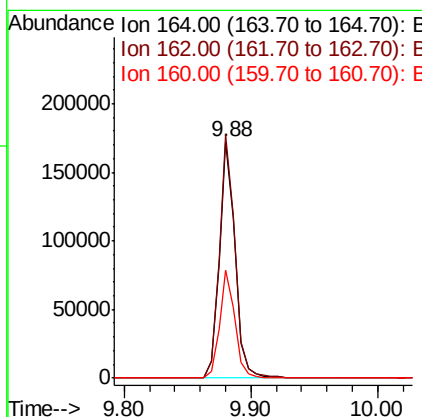
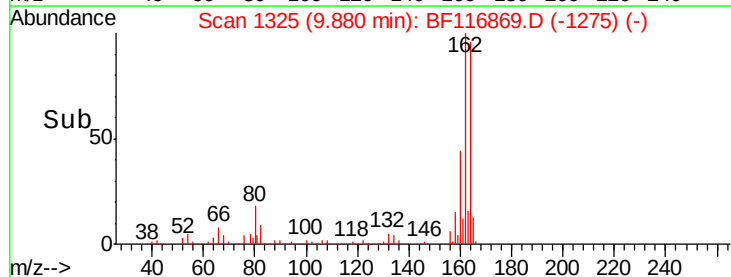
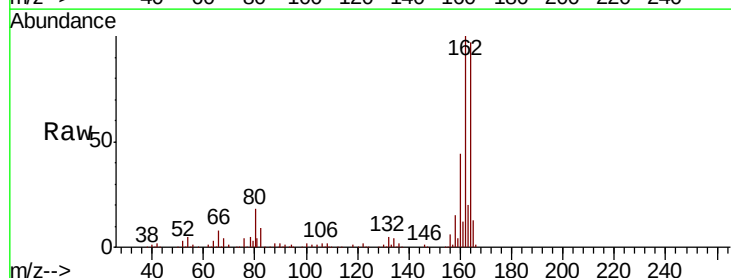
Manual Integrations
APPROVED

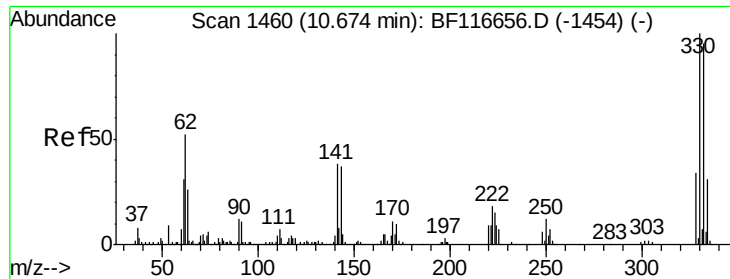
mohammad
9/12/2019 9:25:27 AM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	81.4	122.0
160	45.5	35.4	53.2





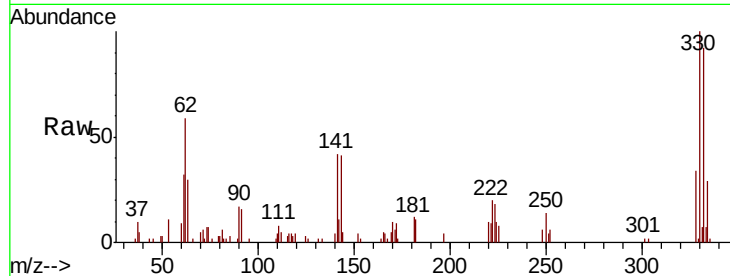
#42
 2,4,6-Tribromophenol
 Concen: 16.436 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF116869.D
 Acq: 6 Sep 2019 19:36

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-090519

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.8	76.9	115.3
141	45.2	31.4	47.2

Manual Integrations
 APPROVED

mohammad
 9/12/2019 9:25:27 AM

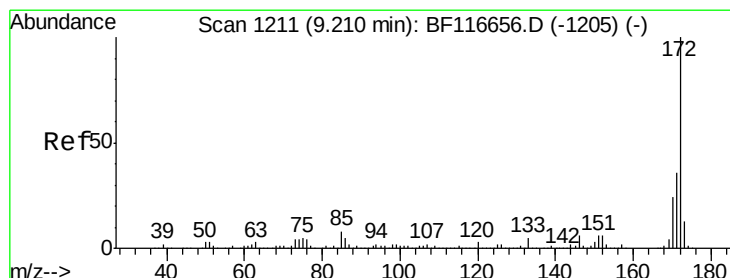
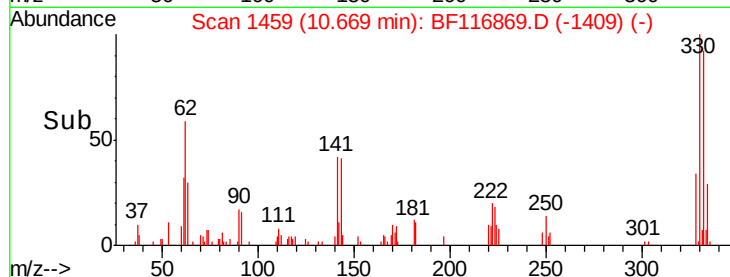
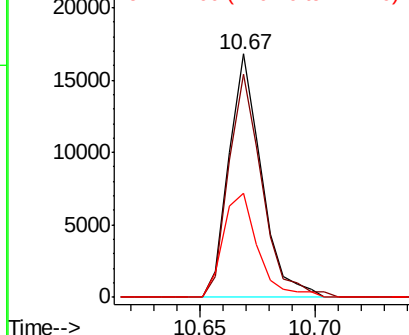


Abundance

Ion 329.80 (329.50 to 330.50): E

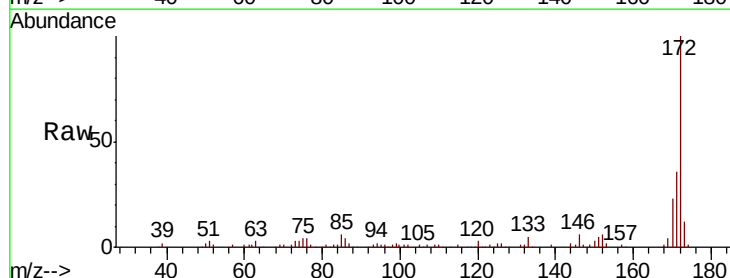
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 14.670 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF116869.D
 Acq: 6 Sep 2019 19:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	27.8	41.6
170	22.9	18.9	28.3

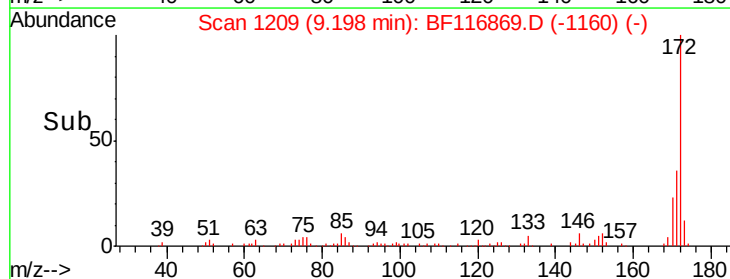
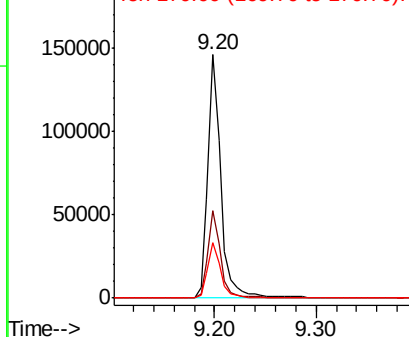


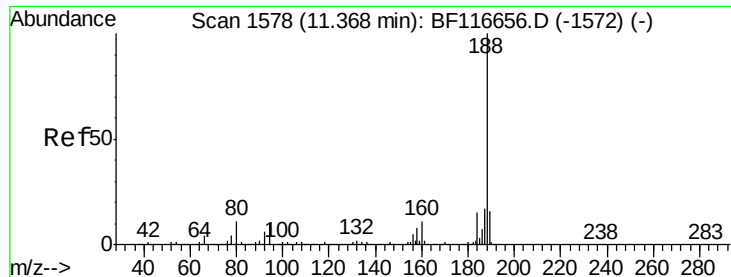
Abundance

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





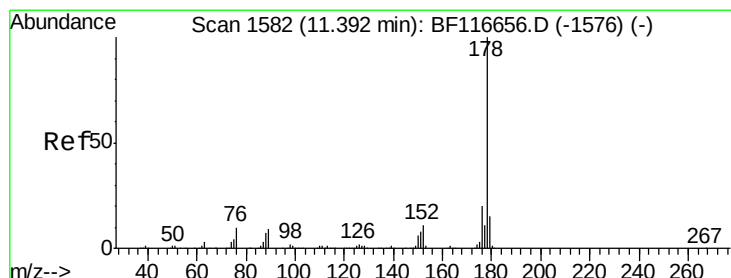
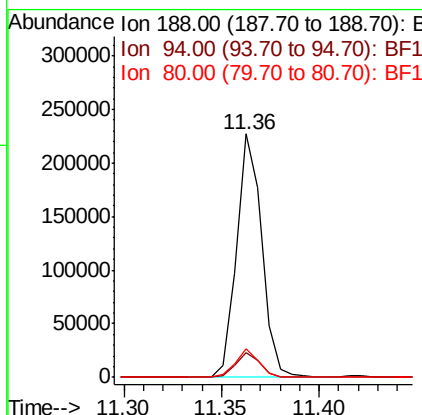
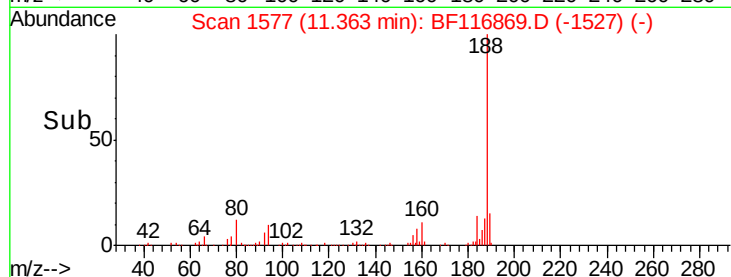
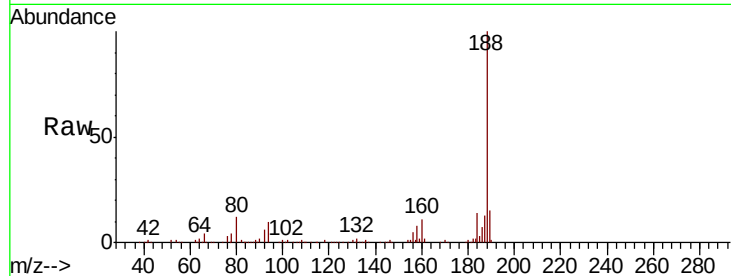
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Tot Ion:	188	Resp:	202664
Ion Ratio	Lower	Upper	
188	100		
94	10.0	7.3	10.9
80	11.9	8.4	12.6

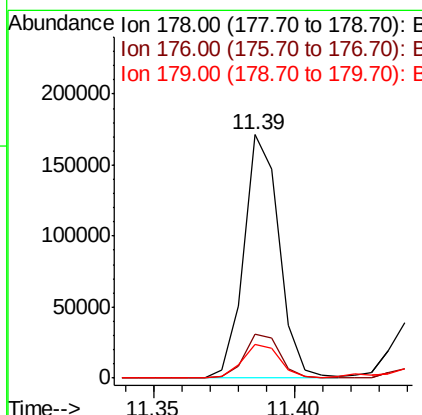
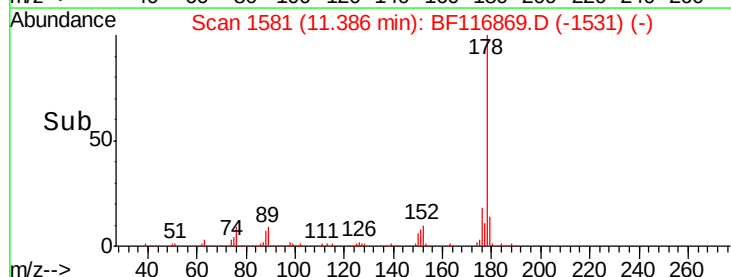
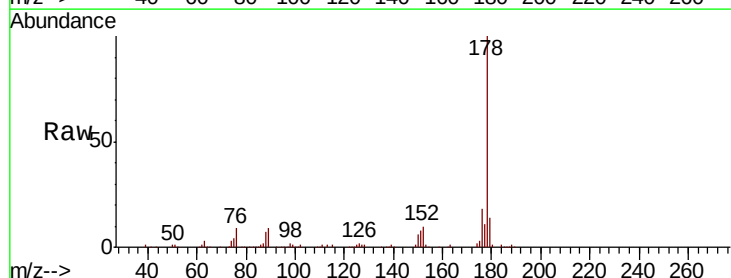
Manual Integrations
APPROVED

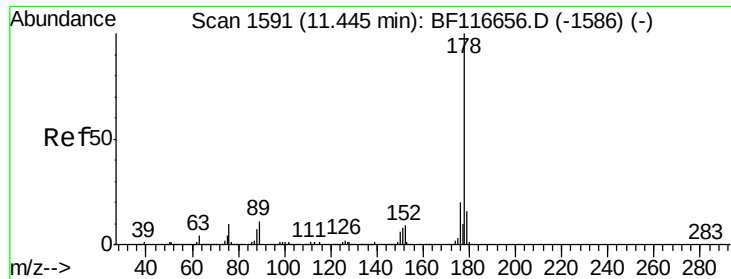
mohammad
9/12/2019 9:25:27 AM



#71
Phenanthrene
Concen: 13.162 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Tgt Ion:	178	Resp:	148493
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.4	23.0
179	13.6	12.2	18.2





#72

Anthracene

Concen: 2.954 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Instrument :

BNA_F

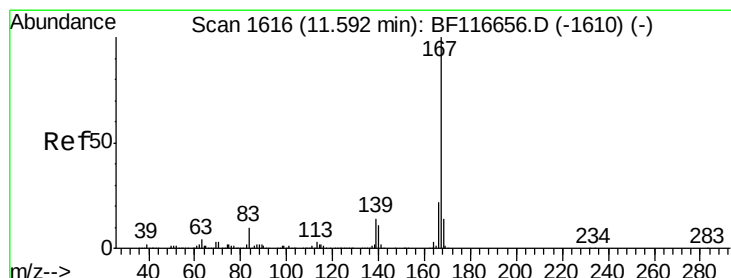
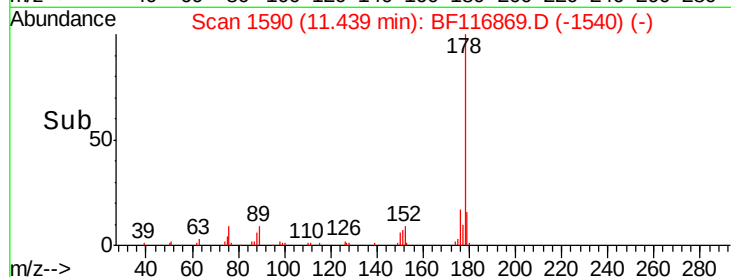
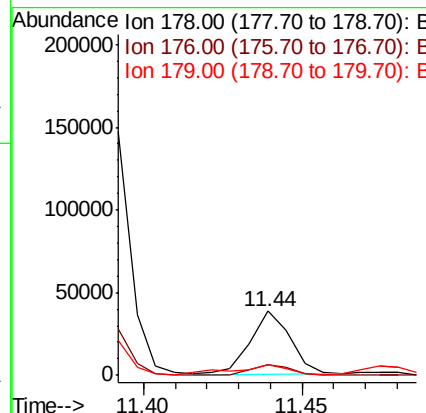
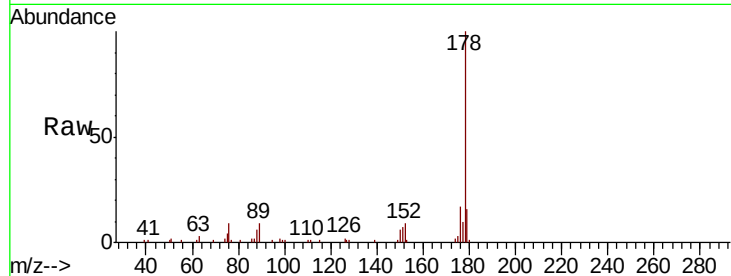
ClientSampleId :

OK-03-090519

Tot Ion:	178	Resp:	33551
Ion Ratio	Lower	Upper	
178	100		
176	17.2	15.4	23.0
179	16.0	12.5	18.7

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:27 AM



#73

Carbazole

Concen: 2.570 ng

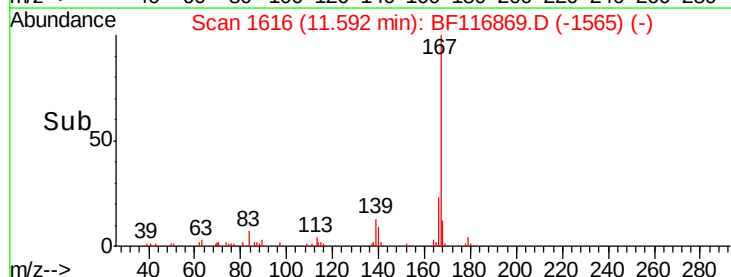
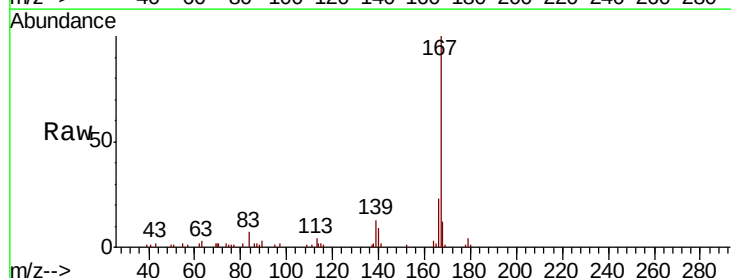
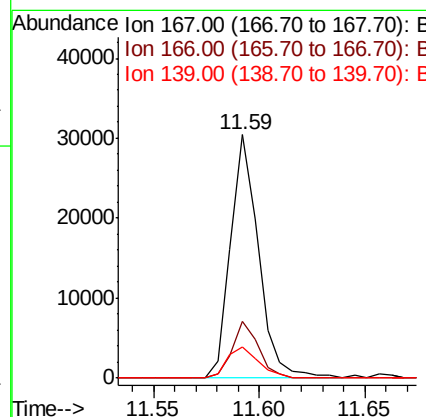
RT: 11.59 min Scan# 1616

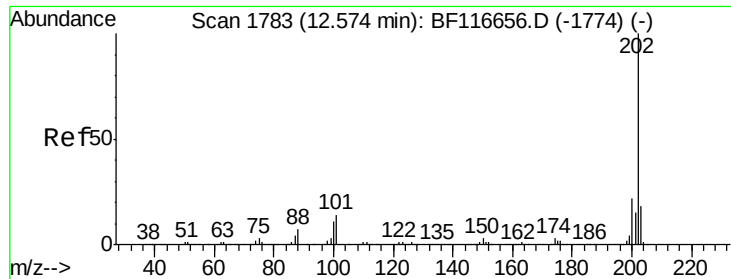
Delta R.T. 0.00 min

Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Tgt Ion:	167	Resp:	27800
Ion Ratio	Lower	Upper	
167	100		
166	23.3	17.8	26.6
139	13.0	11.1	16.7





#75

Fluoranthene

Concen: 16.701 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Instrument :

BNA_F

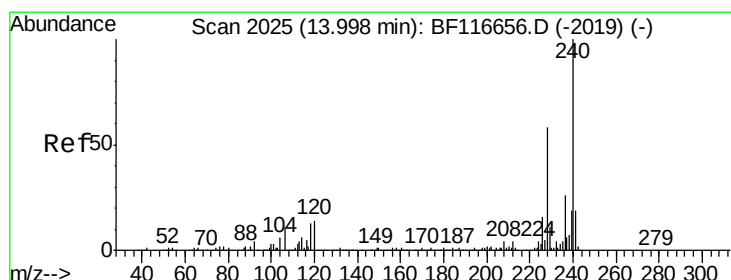
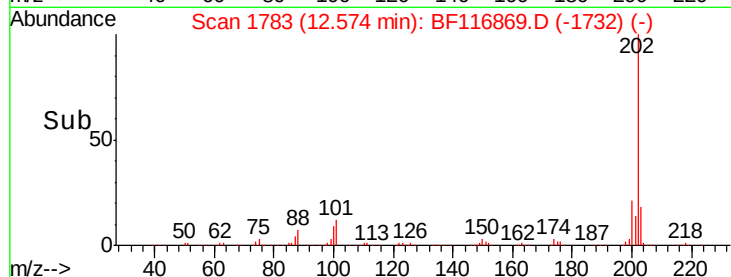
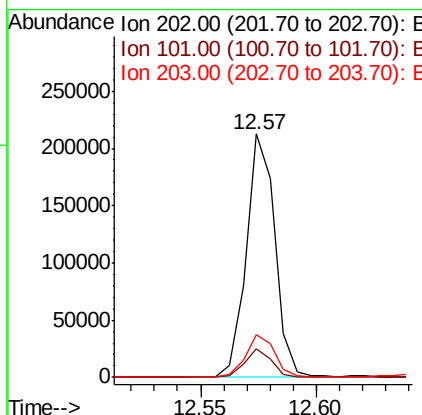
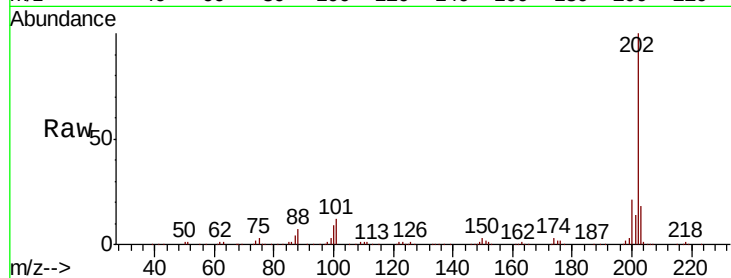
ClientSampleId :

OK-03-090519

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		185162		
101	11.6	0.0	31.3		
203	17.6	0.0	37.6		

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:27 AM



#76

Chrysene-d12

Concen: 20.000 ng

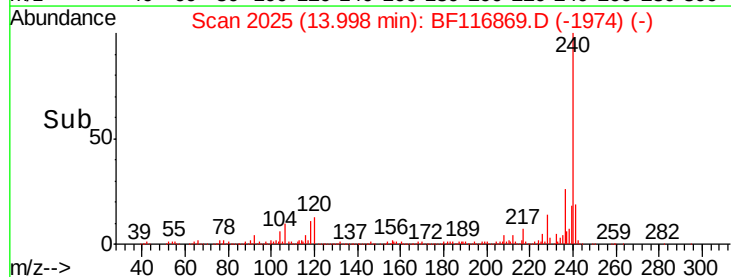
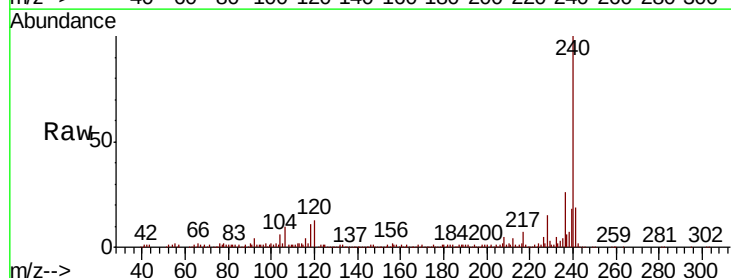
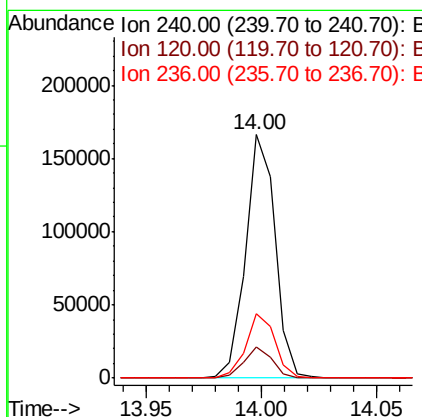
RT: 14.00 min Scan# 2025

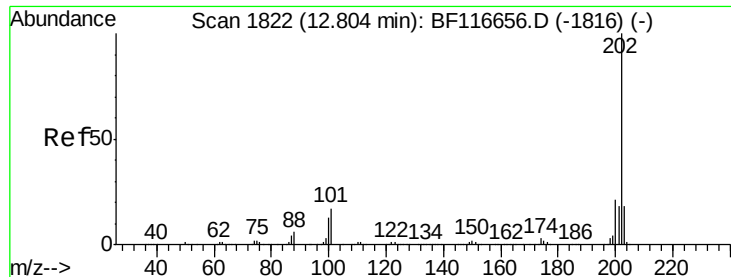
Delta R.T. 0.00 min

Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		149413		
120	13.0	9.1	13.7		
236	26.3	21.1	31.7		





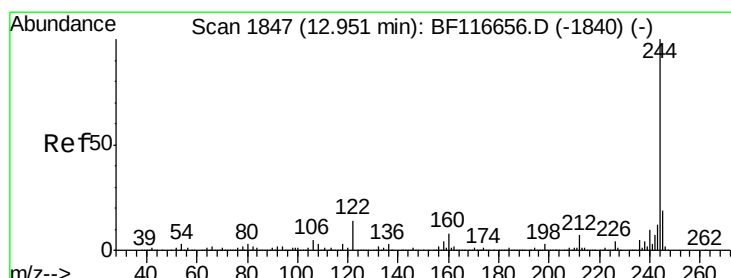
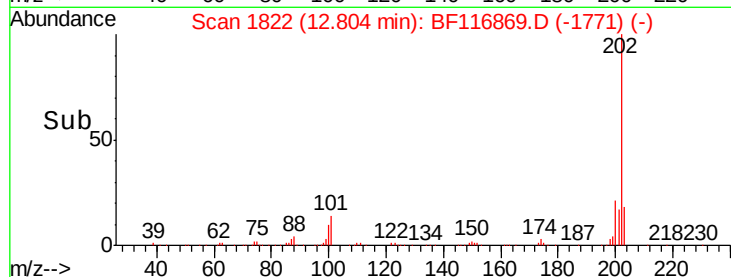
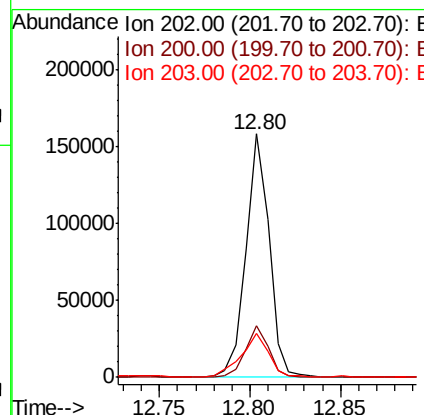
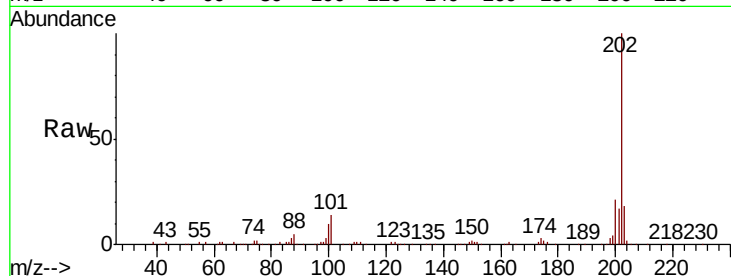
#78
Pvrene
Concen: 10.635 ng
RT: 12.80 min Scan# 1822
Delta R.T. 0.00 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.5	24.7
203	18.0	13.7	20.5

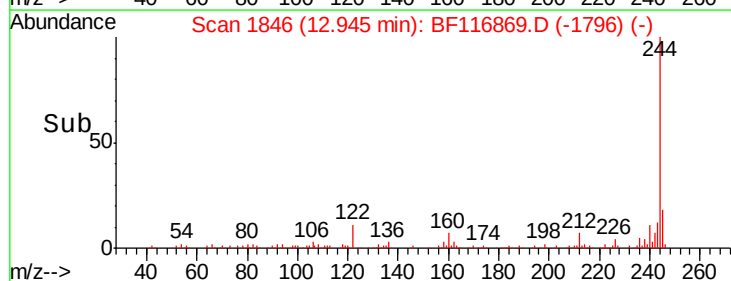
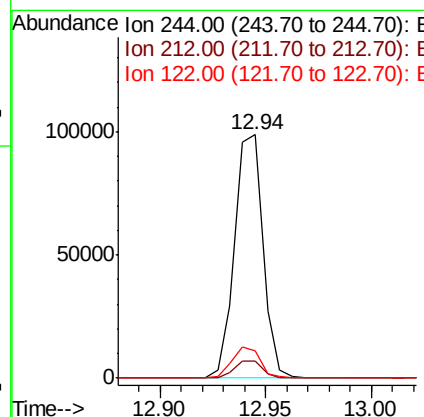
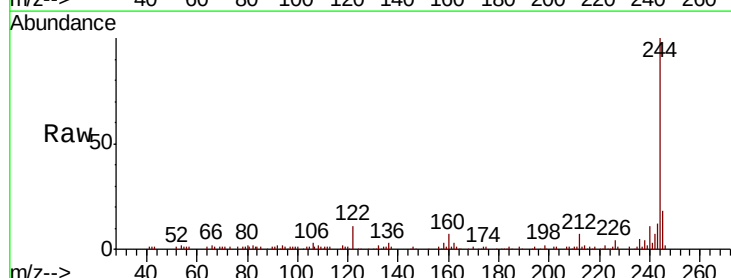
Manual Integrations
APPROVED

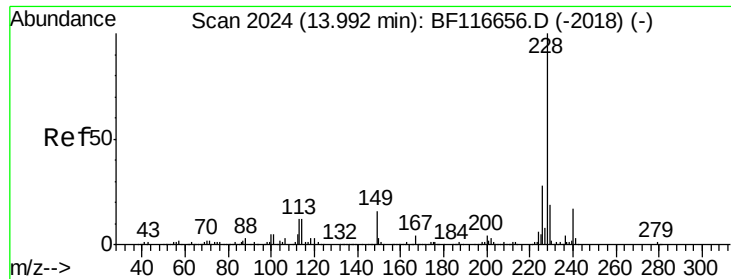
mohammad
9/12/2019 9:25:27 AM



#79
Terphenyl-d14
Concen: 11.294 ng
RT: 12.94 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.1	9.1
122	11.1	10.2	15.4





#81

Benzo(a)anthracene

Concen: 6.630 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.00 min

Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Instrument :

BNA_F

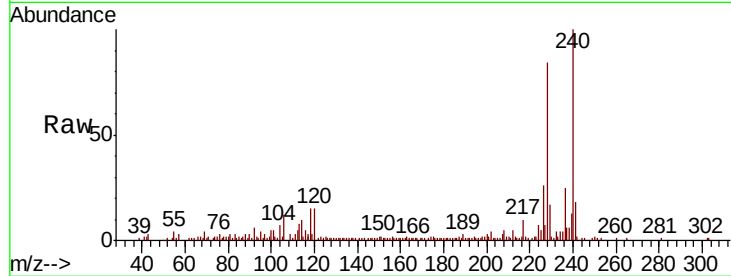
ClientSampleId :

OK-03-090519

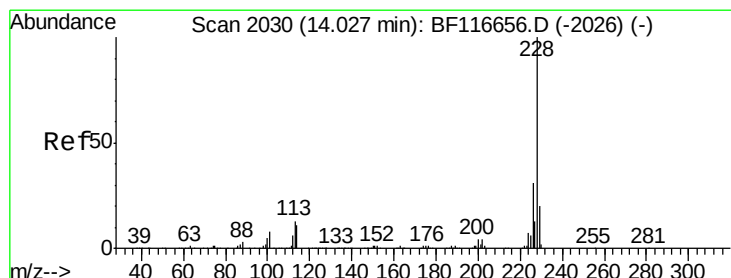
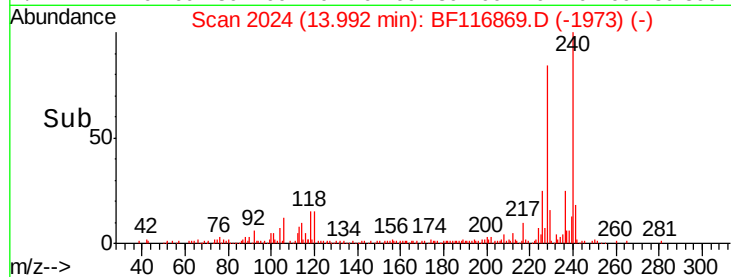
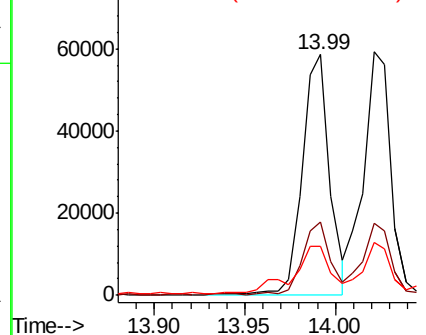
Tot Ion:	228	Resp:	62698
Ion Ratio		Lower	Upper
228	100		
226	30.5	22.0	33.0
229	20.2	16.4	24.6

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:27 AM



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: 6.460 ng

RT: 14.02 min Scan# 2029

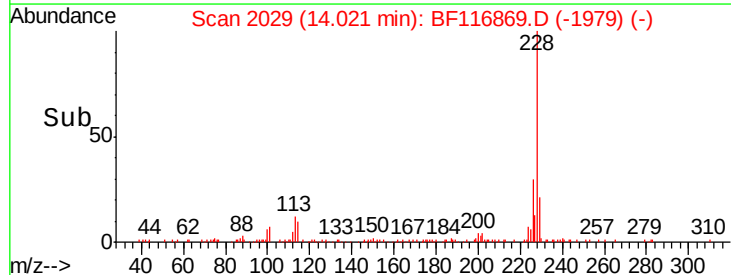
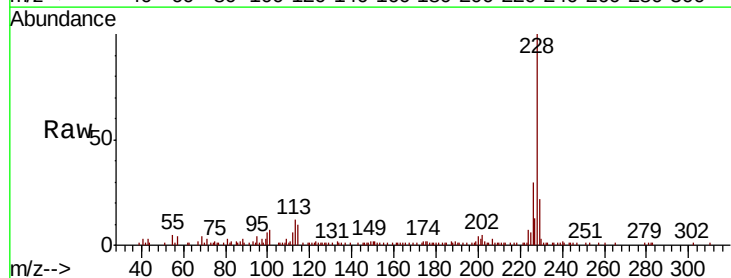
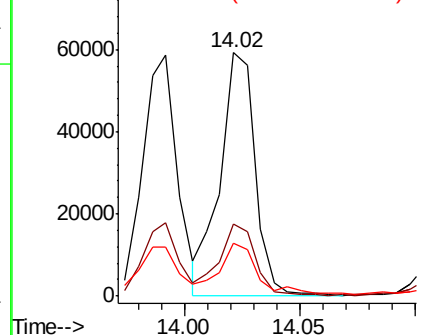
Delta R.T. -0.01 min

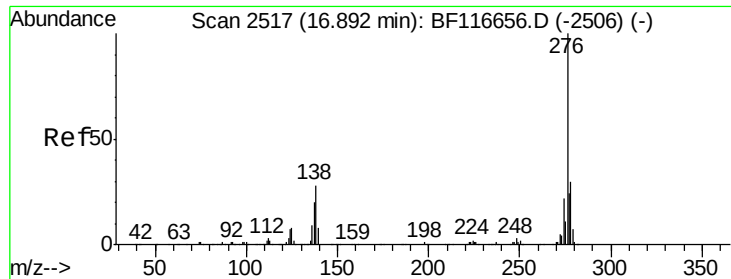
Lab File: BF116869.D

Acq: 6 Sep 2019 19:36

Tgt Ion:	228	Resp:	62940
Ion Ratio		Lower	Upper
228	100		
226	29.6	24.0	36.0
229	21.5	15.4	23.0

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





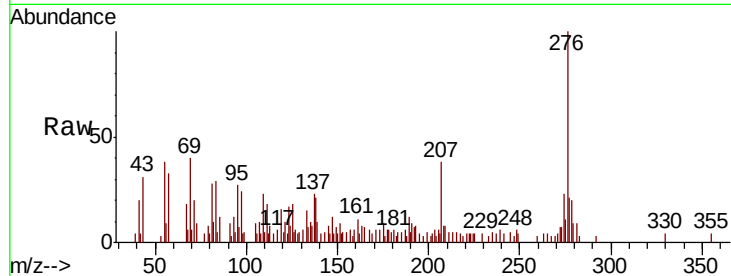
#86
Indeno(1,2,3-cd)pyrene
Concen: 2.517 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.02 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.7	19.4	29.2
277	22.6	20.5	30.7

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:27 AM

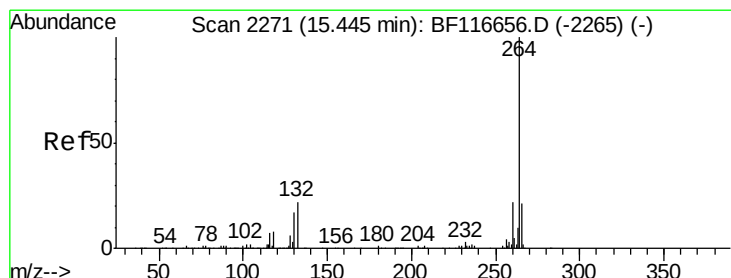
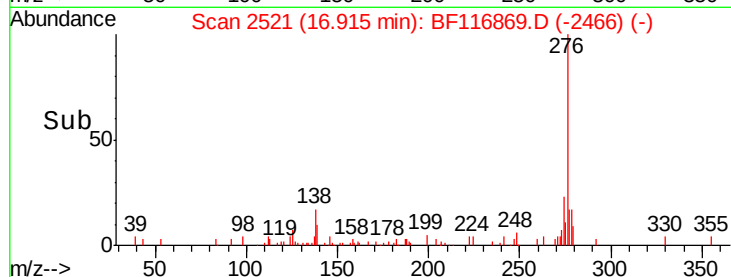
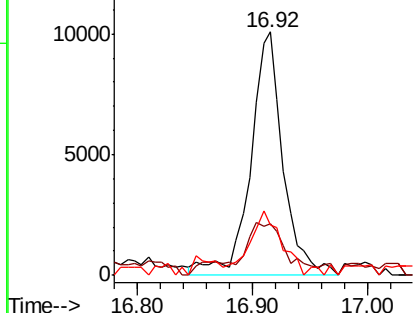


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.02 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

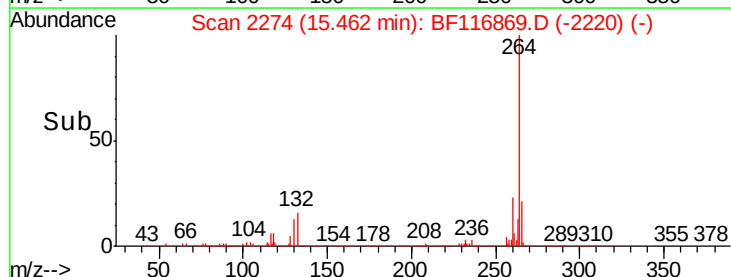
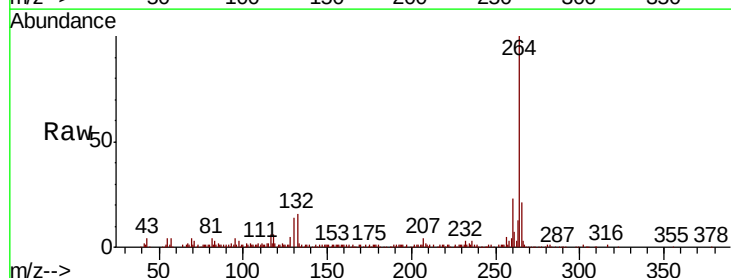
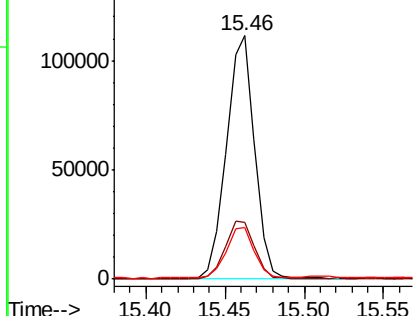
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.3	27.5
265	21.1	16.5	24.7

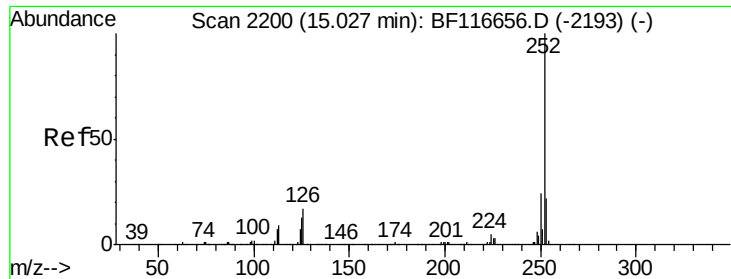
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





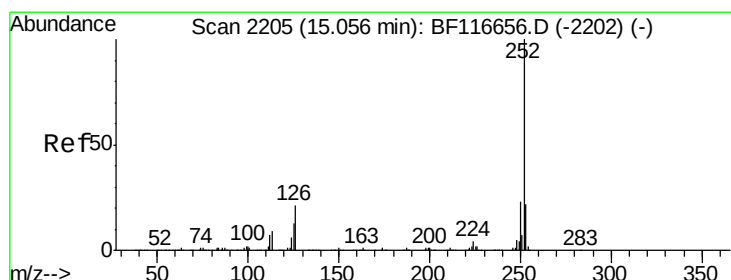
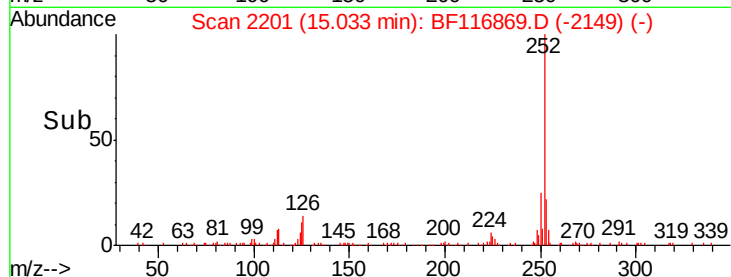
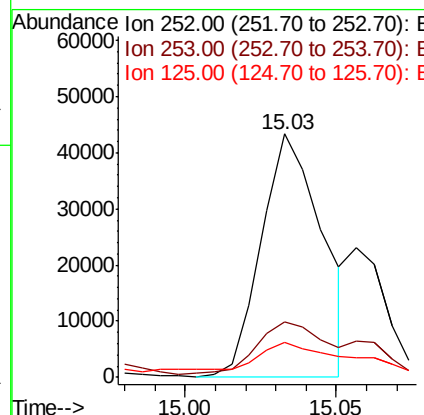
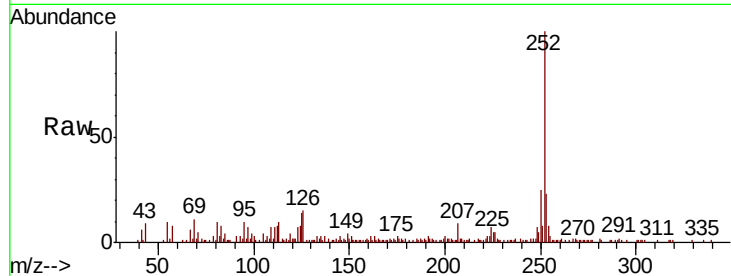
#88
Benzo(b)fluoranthene
Concen: 7.310 ng m
RT: 15.03 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	14.3	8.2	12.2

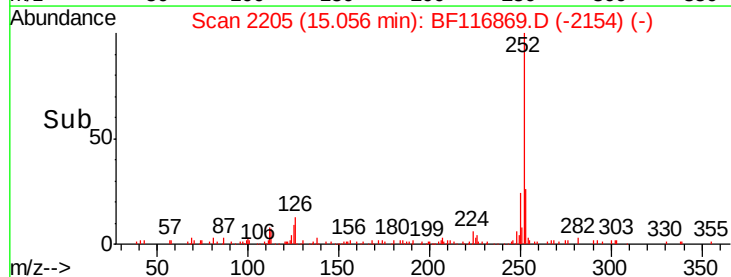
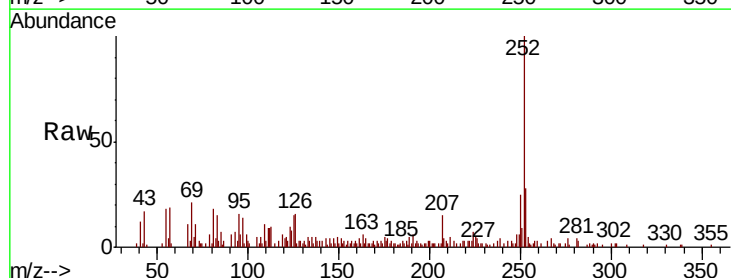
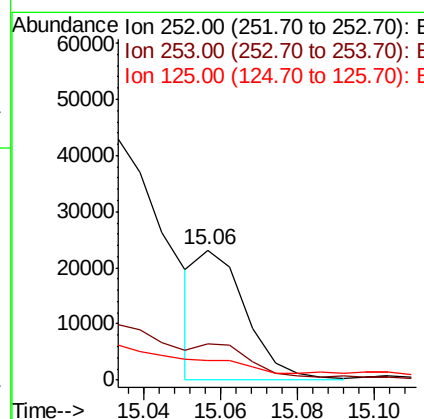
Manual Integrations
APPROVED

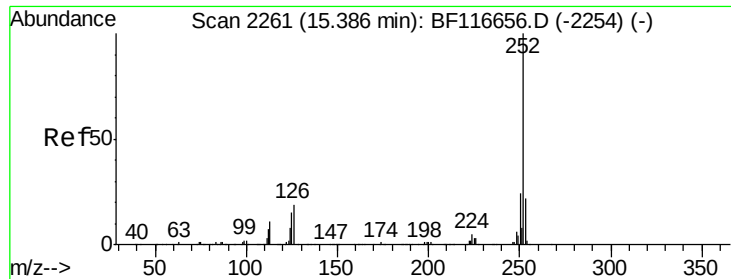
mohammad
9/12/2019 9:25:27 AM



#89
Benzo(k)fluoranthene
Concen: 2.686 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.00 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	17.7	26.5
125	15.3	8.6	13.0





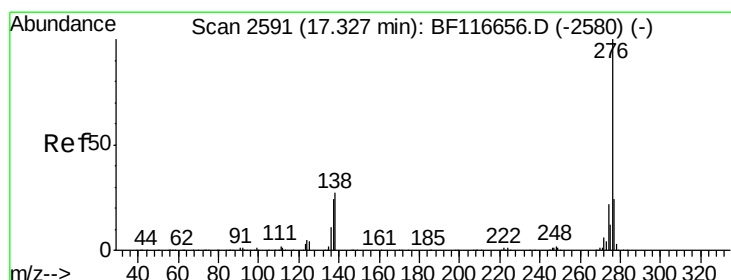
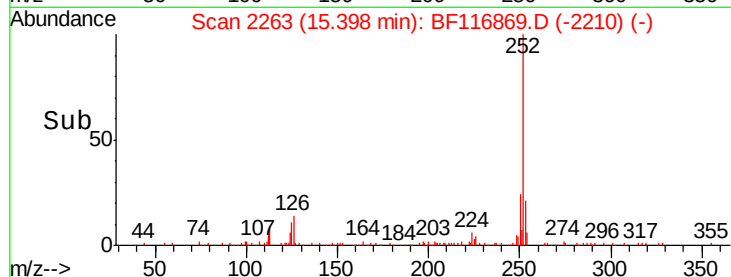
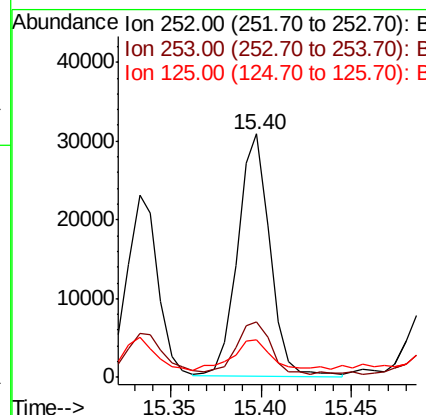
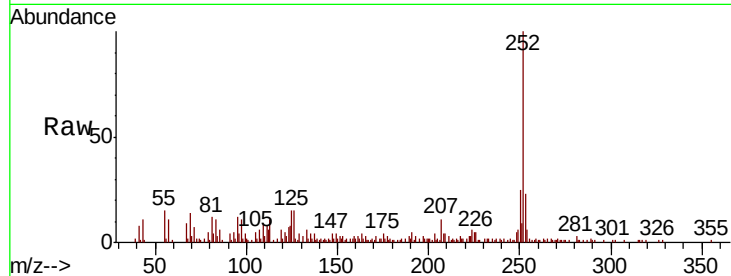
#90
Benzo(a)pyrene
Concen: 5.234 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Instrument :
BNA_F
ClientSampleId :
OK-03-090519

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	15.5	9.8	14.8

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:27 AM



#92
Benzo(g,h,i)perylene
Concen: 2.427 ng
RT: 17.36 min Scan# 2596
Delta R.T. 0.03 min
Lab File: BF116869.D
Acq: 6 Sep 2019 19:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	20.1	18.5	27.7
138	25.1	16.2	24.2

