

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
 Data File : BF112259.D
 Acq On : 26 Jan 2019 3:47
 Operator : JU/SJ
 Sample : K1228-01 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

Manual Integrations
 APPROVED

mohammad
 1/29/2019 12:32:03 AM

Quant Time: Jan 28 01:08:42 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 25 16:47:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	257193	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	1098723	20.00	ng	-0.01
39) Acenaphthene-d10	9.88	164	511058	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	826255	20.00	ng	-0.01
76) Chrysene-d12	14.01	240	534314	20.00	ng	0.00
87) Perylene-d12	15.47	264	550298	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	253561	20.94	ng	-0.01
7) Phenol-d6	6.48	99	330104	19.62	ng	-0.03
23) Nitrobenzene-d5	7.40	82	212146	11.13	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	88802	14.93	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	456738	12.64	ng	-0.01
79) Terphenyl-d14	12.94	244	348281	12.28	ng	-0.02
Target Compounds						
52) Acenaphthene	9.91	154	176005	5.802	ng	99
55) Dibenzofuran	10.08	168	111191	2.399	ng	98
58) Fluorene	10.43	166	138191	3.984	ng	97
71) Phenanthrene	11.39	178	2139413	49.805	ng	100
72) Anthracene	11.44	178	484895	11.332	ng	98
73) Carbazole	11.59	167	301952	7.154	ng	99
75) Fluoranthene	12.59	202	2854170	61.949	ng	99
78) Pyrene	12.82	202	2438872	65.928	ng	99
81) Benzo(a)anthracene	14.00	228	1289792	41.063	ng	99
83) Chrysene	14.03	228	1258974	41.991	ng	97
86) Indeno(1,2,3-cd)pyrene	16.94	276	545524	22.962	ng	95
88) Benzo(b)fluoranthene	15.05	252	1553002m	47.189	ng	
89) Benzo(k)fluoranthene	15.07	252	628477m	19.937	ng	
90) Benzo(a)pyrene	15.42	252	1053807	35.587	ng	97
91) Dibenzo(a,h)anthracene	16.94	278	165143m	6.920	ng	
92) Benzo(g,h,i)perylene	17.39	276	483438	21.470	ng	97

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

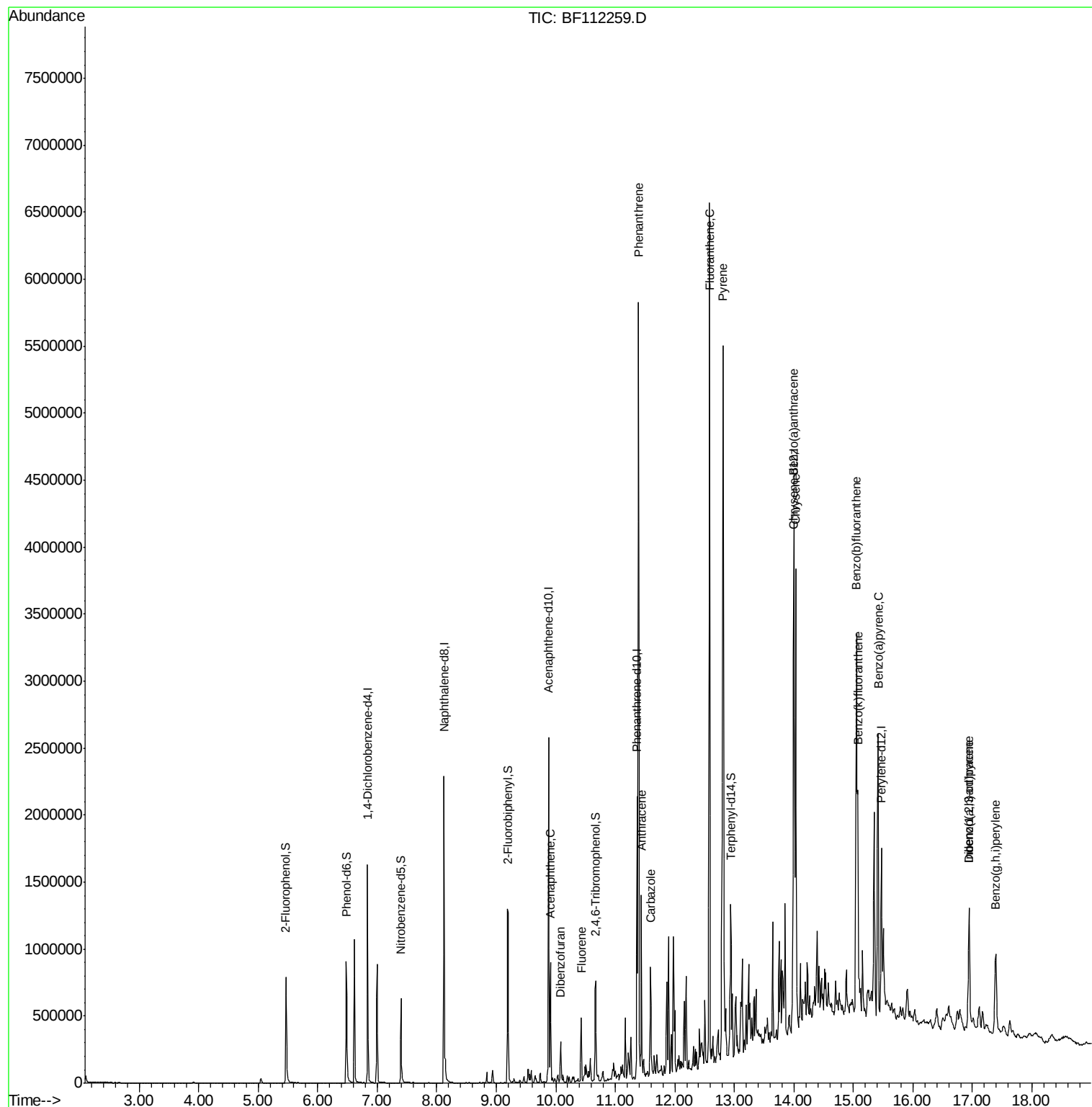
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

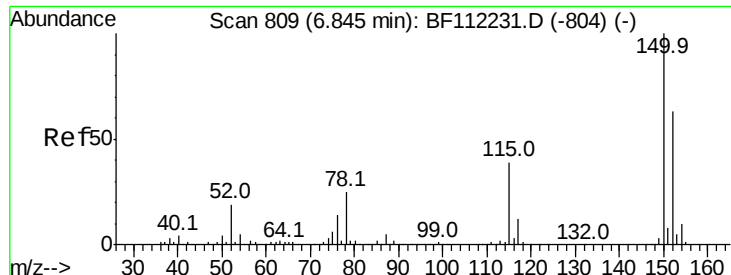
Instrument :
BNA_F
ClientSampleId :
COMP-1

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:03 AM

Quant Time: Jan 28 01:08:42 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 25 16:47:00 2019
Response via : Initial Calibration





#1

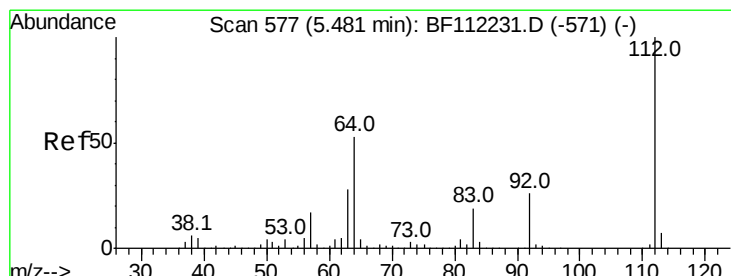
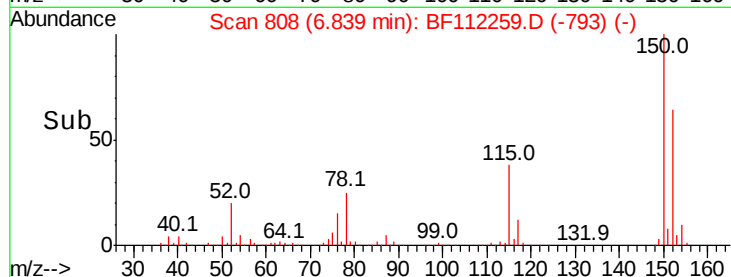
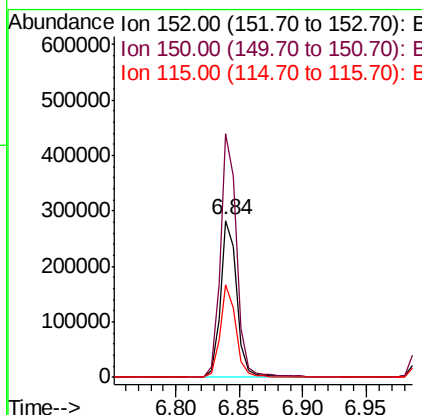
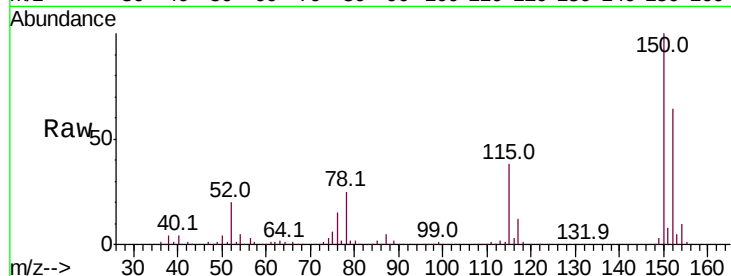
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Instrument :
BNA_F
ClientSampleId :
COMP-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	127.4	191.0
115	59.2	45.5	68.3

Manual Integrations
APPROVED

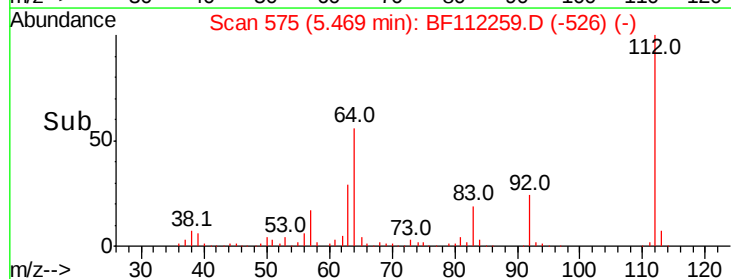
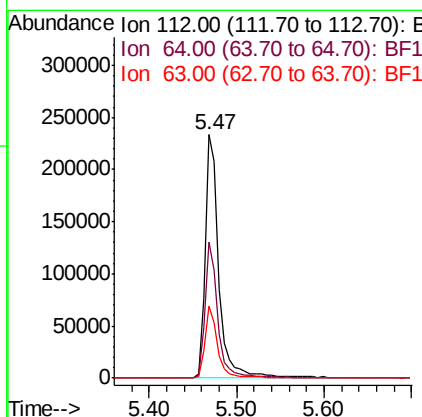
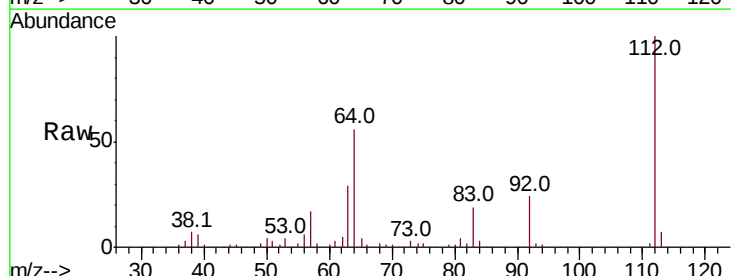
mohammad
1/29/2019 12:32:03 AM



#5

2-Fluorophenol
Concen: 20.941 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	45.7	68.5
63	29.4	23.6	35.4





#7

Phenol-d6

Concen: 19.619 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.03 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Instrument :

BNA_F

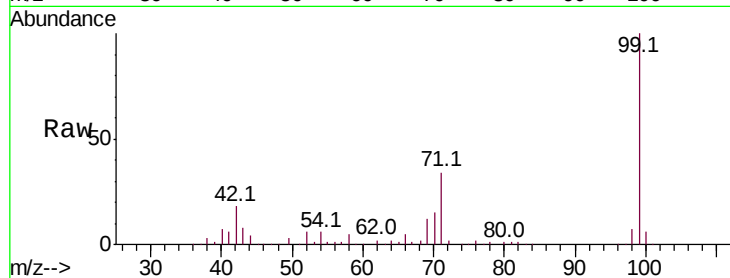
ClientSampled :

COMP-1

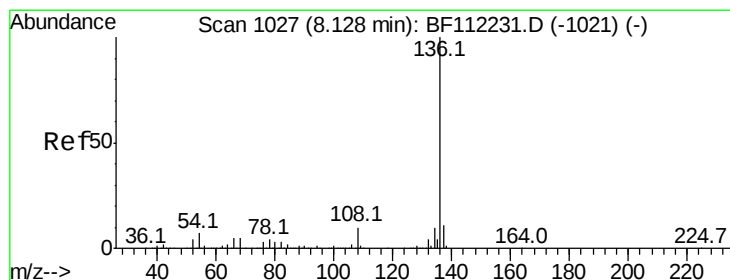
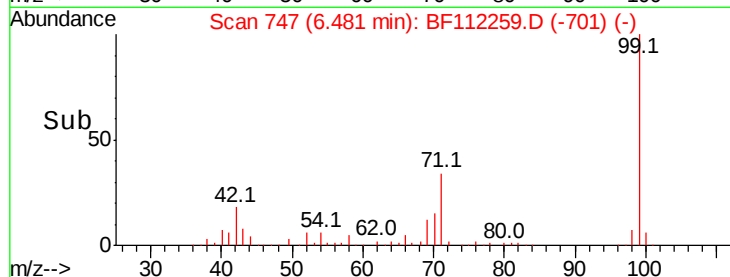
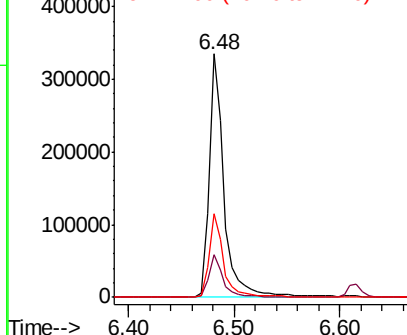
Tot Ion:	99	Resp:	330104
Ion Ratio	Lower	Upper	
99	100		
42	17.6	15.1	22.7
71	34.4	26.9	40.3

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:03 AM



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: 8.12 min Scan# 1026

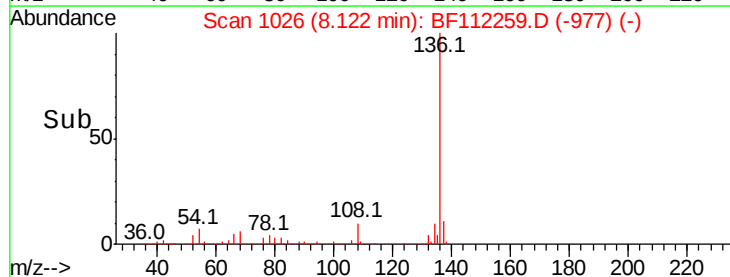
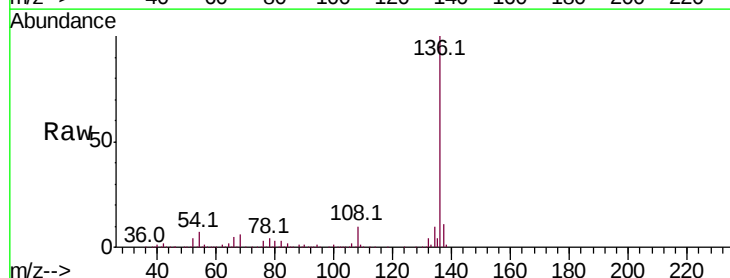
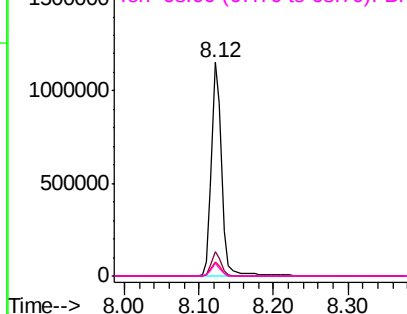
Delta R.T. -0.01 min

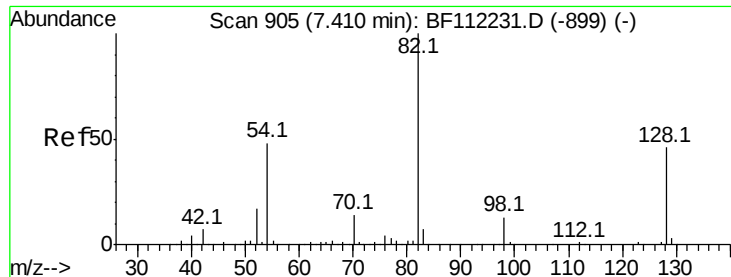
Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Tgt Ion:	136	Resp:	1098723
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	6.8	5.9	8.9
68	5.8	5.1	7.7

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





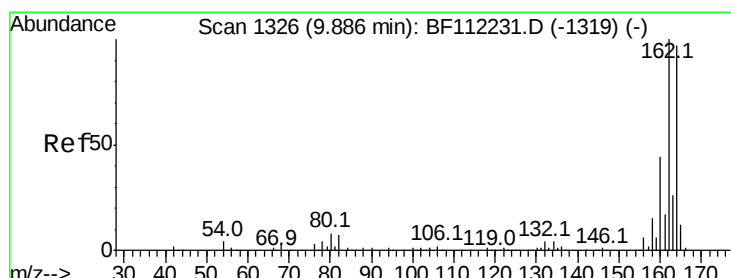
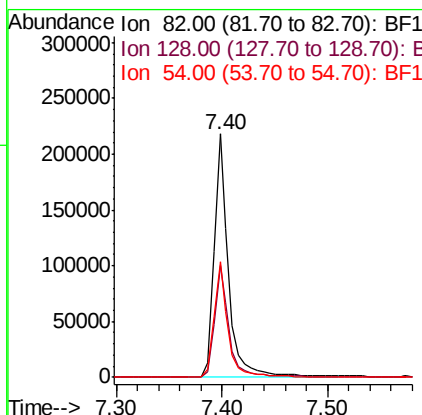
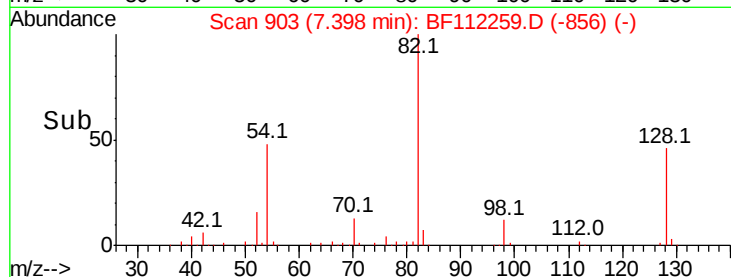
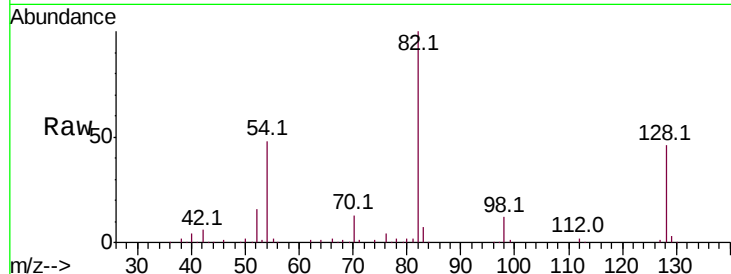
#23
Nitrobenzene-d5
Concen: 11.125 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Instrument :
BNA_F
ClientSampled :
COMP-1

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.9	37.8	56.8
54	47.6	39.7	59.5

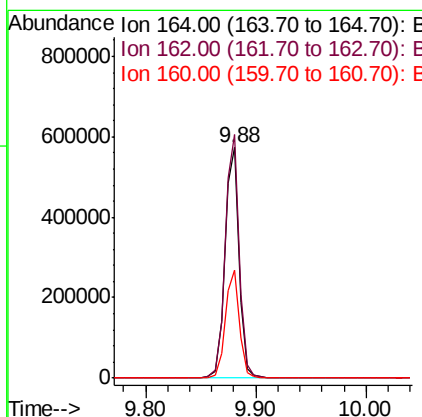
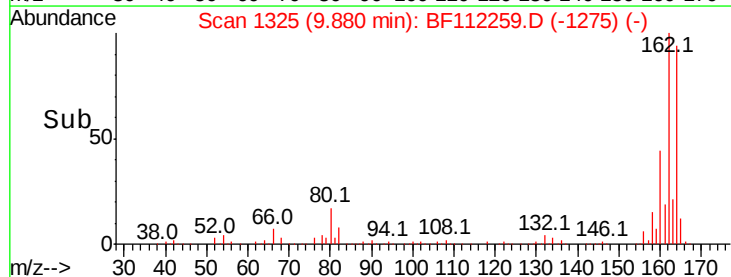
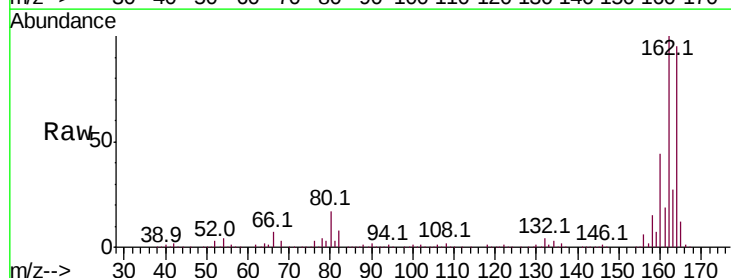
Manual Integrations
APPROVED

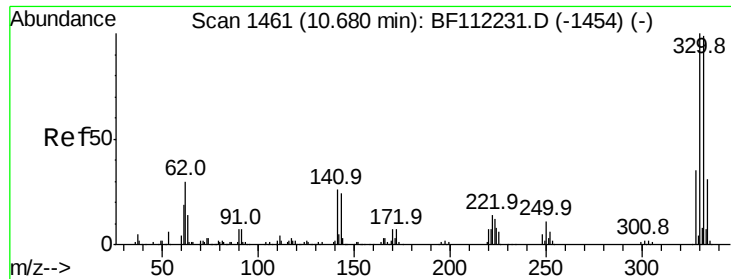
mohammad
1/29/2019 12:32:03 AM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.2	123.4
160	46.6	36.2	54.4





#42

2,4,6-Tribromophenol

Concen: 14.928 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.02 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Instrument :

BNA_F

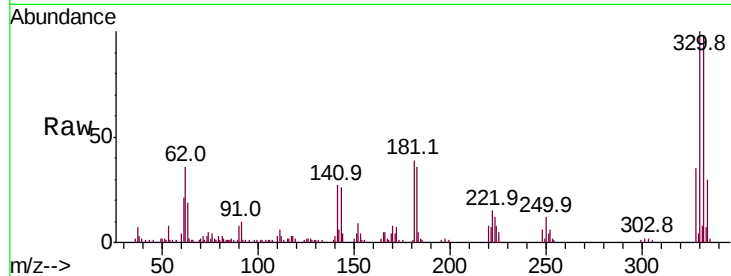
ClientSampleId :

COMP-1

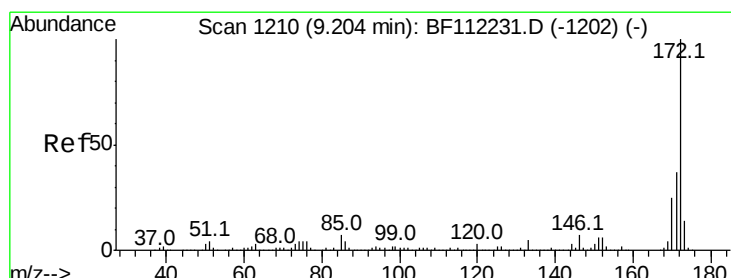
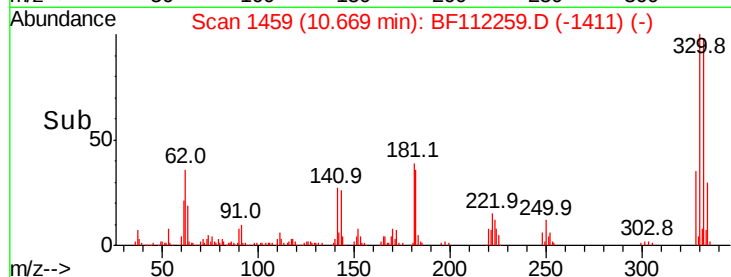
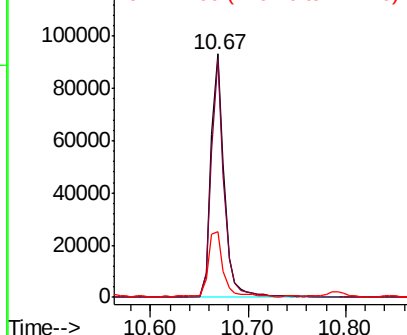
Tot Ion:	330	Resp:	88802
Ion Ratio	Lower	Upper	
330	100		
332	94.5	76.6	114.8
141	32.3	24.3	36.5

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:03 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: 12.640 ng

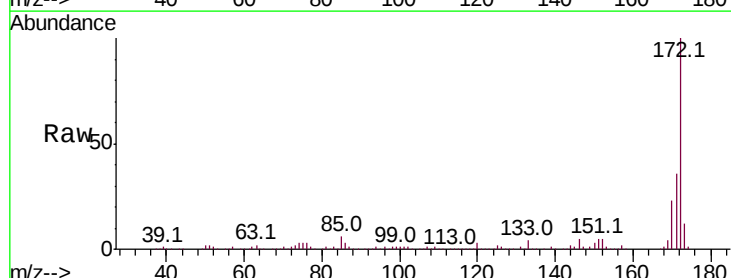
RT: 9.20 min Scan# 1209

Delta R.T. -0.01 min

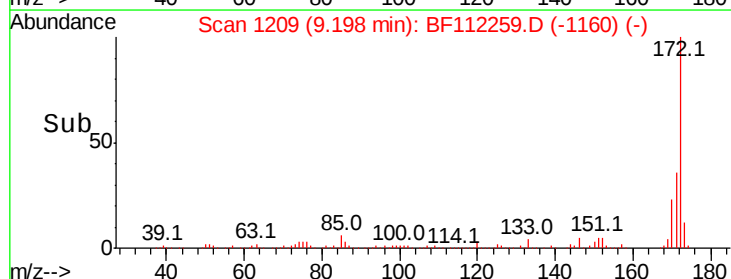
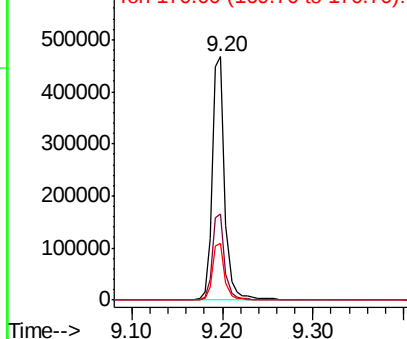
Lab File: BF112259.D

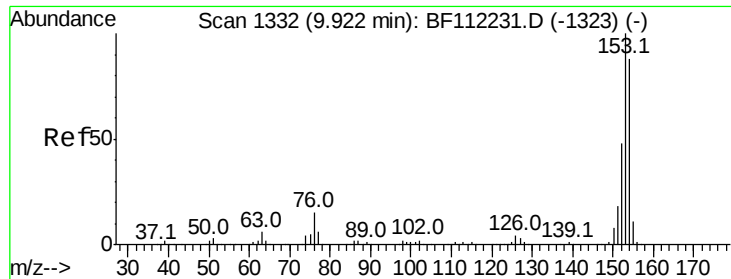
Acq: 26 Jan 2019 3:47

Tgt Ion:	172	Resp:	456738
Ion Ratio	Lower	Upper	
172	100		
171	35.6	30.5	45.7
170	23.4	20.2	30.4



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





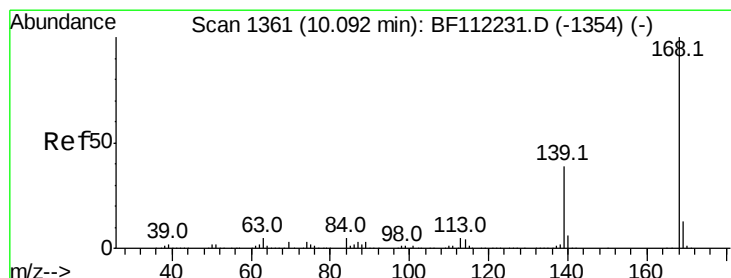
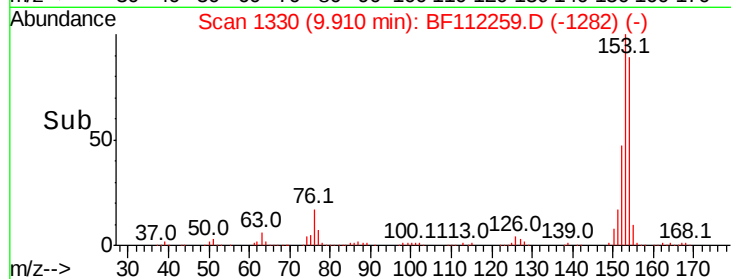
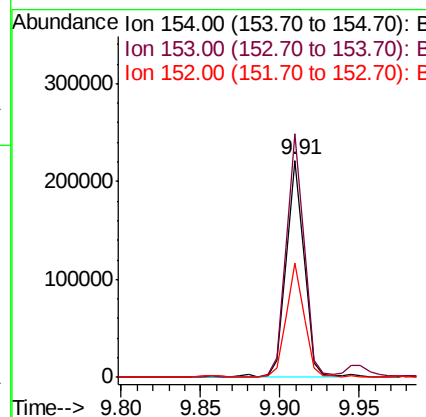
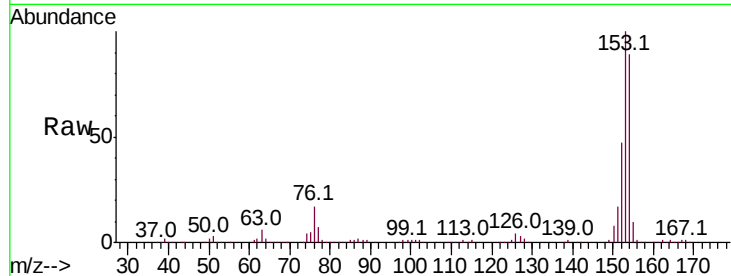
#52
Acenaphthene
Concen: 5.802 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.02 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Instrument :
BNA_F
ClientSampleId :
COMP-1

Tot Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.8	134.6
152	52.5	43.5	65.3

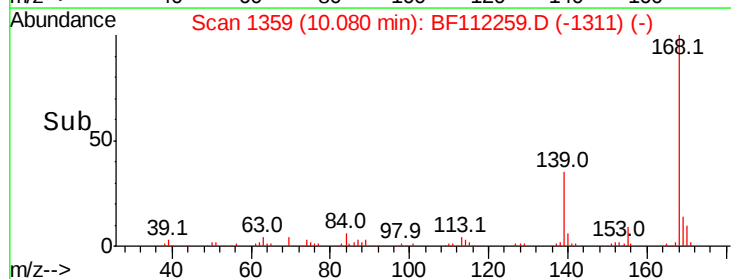
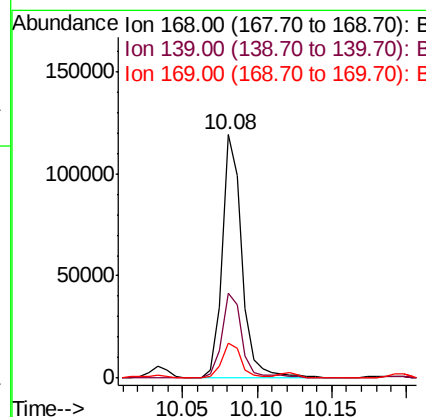
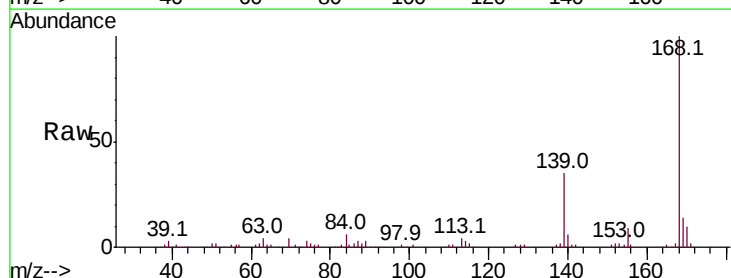
Manual Integrations
APPROVED

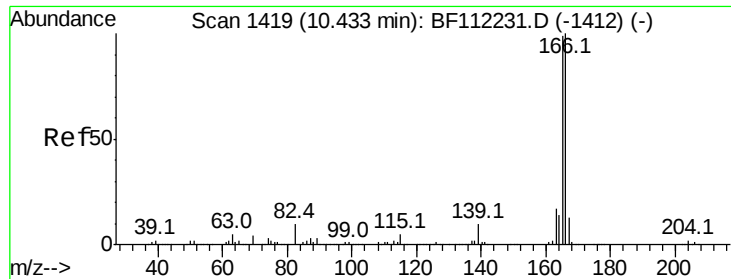
mohammad
1/29/2019 12:32:03 AM



#55
Dibenzofuran
Concen: 2.399 ng
RT: 10.08 min Scan# 1359
Delta R.T. -0.02 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.9	29.2	43.8
169	14.4	11.4	17.0





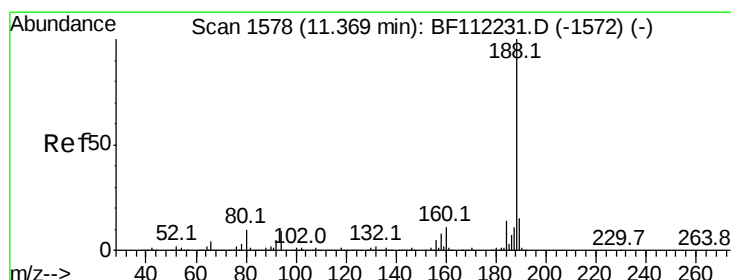
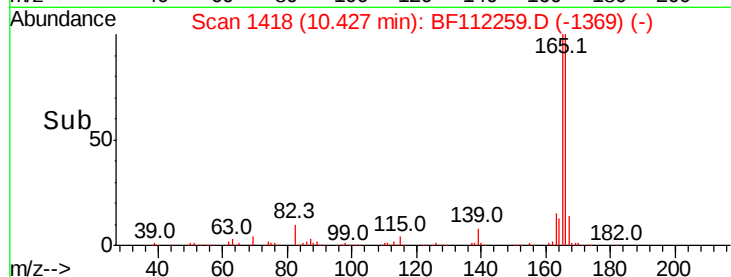
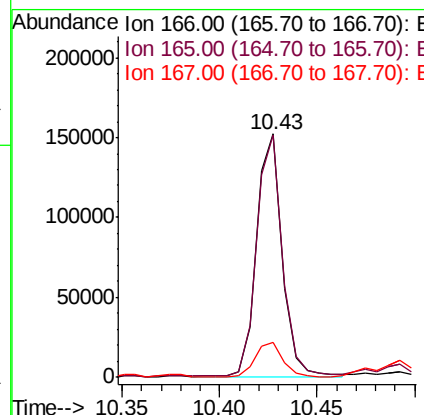
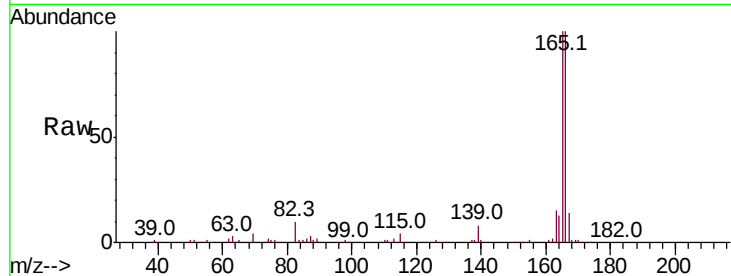
#58
Fluorene
Concen: 3.984 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Instrument :
BNA_F
ClientSampleId :
COMP-1

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.6	77.1	115.7
167	14.2	11.3	16.9

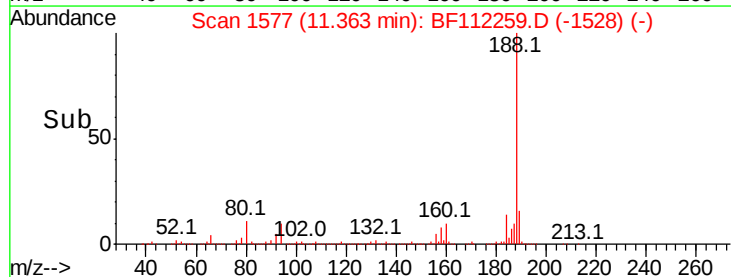
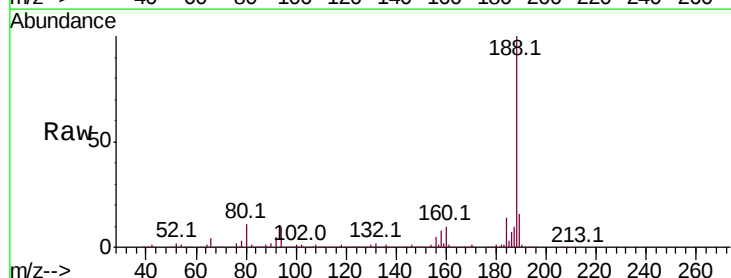
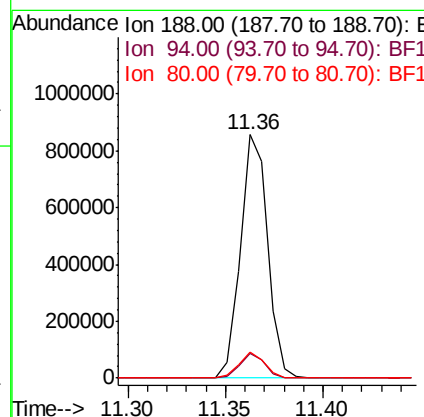
Manual Integrations
APPROVED

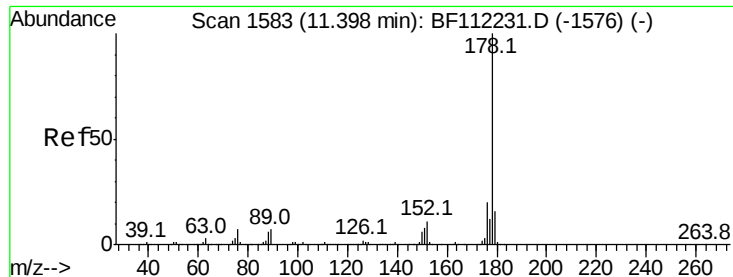
mohammad
1/29/2019 12:32:03 AM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.2	12.2
80	10.7	8.9	13.3





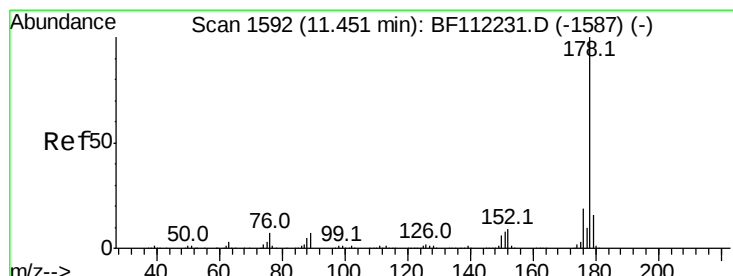
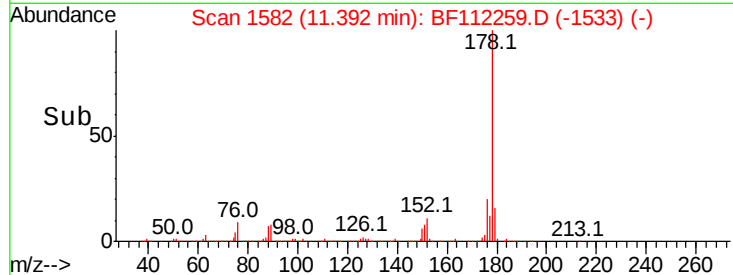
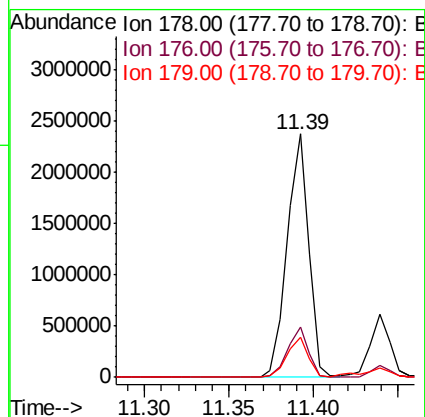
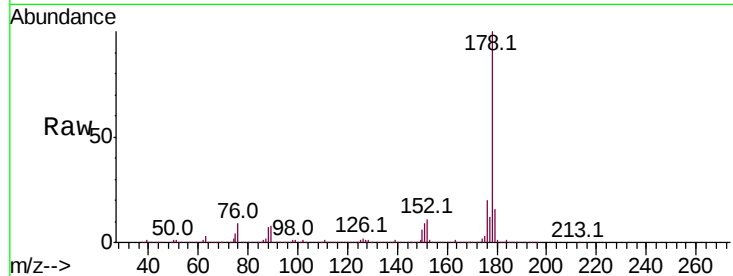
#71
Phenanthrene
Concen: 49.805 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Instrument :
BNA_F
ClientSampleId :
COMP-1

Tot Ion:178 Resp: 2139413
Ion Ratio Lower Upper
178 100
176 20.5 16.3 24.5
179 16.3 13.0 19.4

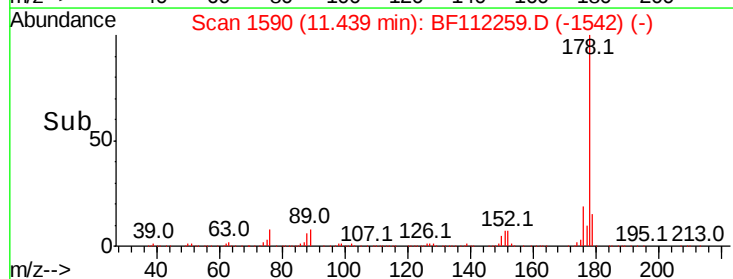
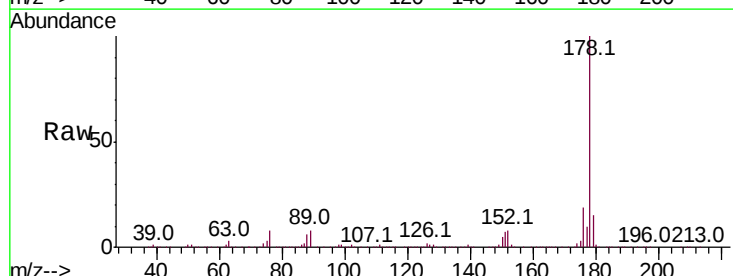
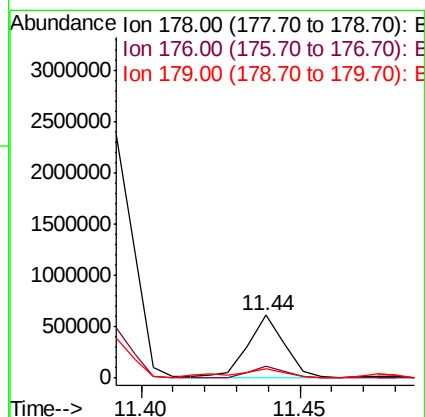
Manual Integrations
APPROVED

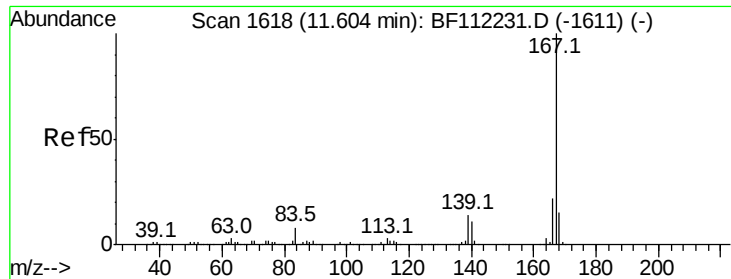
mohammad
1/29/2019 12:32:03 AM



#72
Anthracene
Concen: 11.332 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.02 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Tgt Ion:178 Resp: 484895
Ion Ratio Lower Upper
178 100
176 18.6 15.5 23.3
179 15.2 12.8 19.2





#73

Carbazole

Concen: 7.154 ng

RT: 11.59 min Scan# 1616

Delta R.T. -0.02 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Instrument :

BNA_F

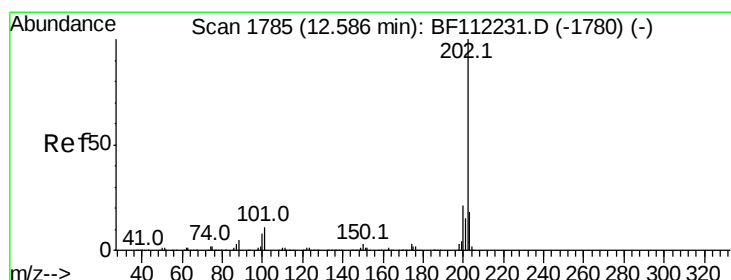
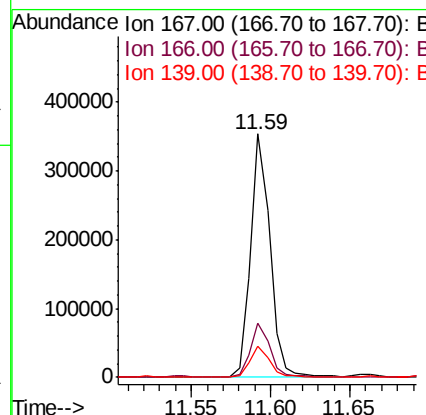
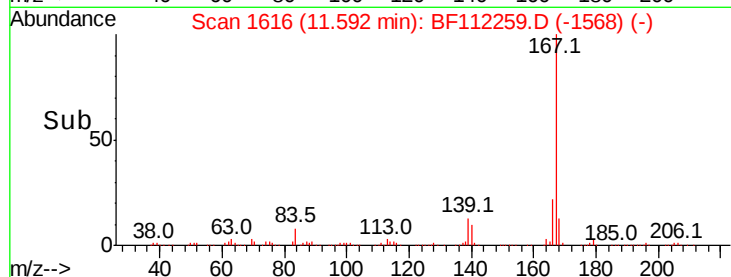
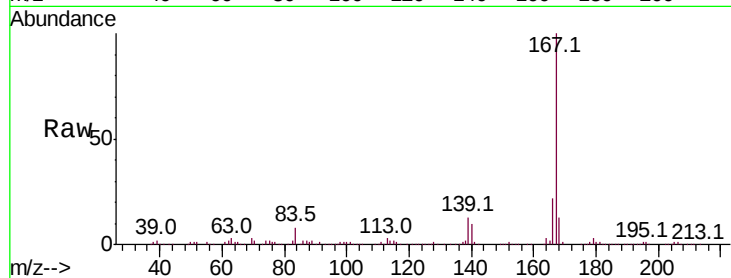
ClientSampleId :

COMP-1

Tot Ion:	167	Resp:	301952
Ion Ratio	Lower	Upper	
167	100		
166	22.2	17.9	26.9
139	13.0	10.2	15.2

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:03 AM



#75

Fluoranthene

Concen: 61.949 ng

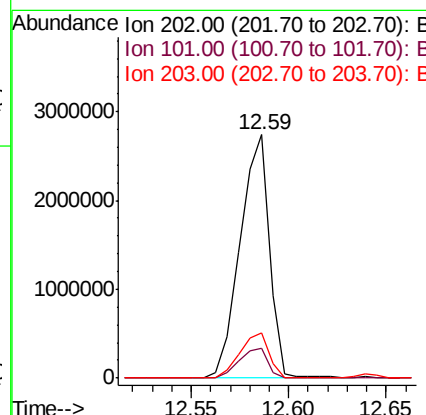
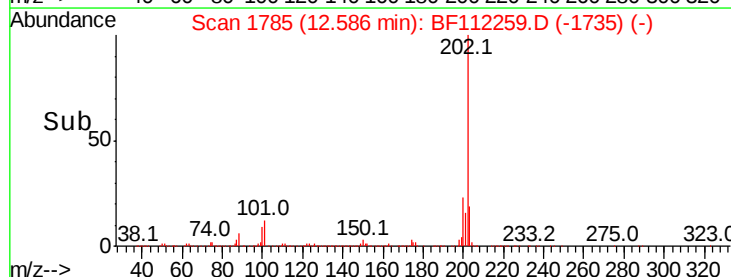
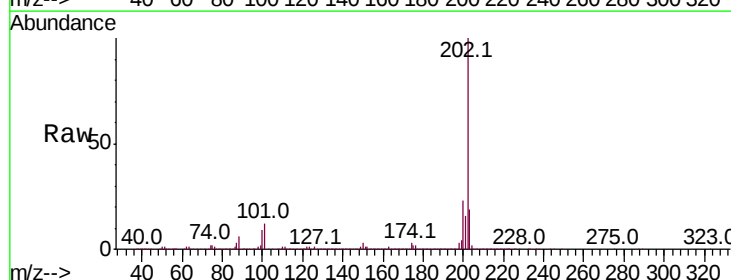
RT: 12.59 min Scan# 1785

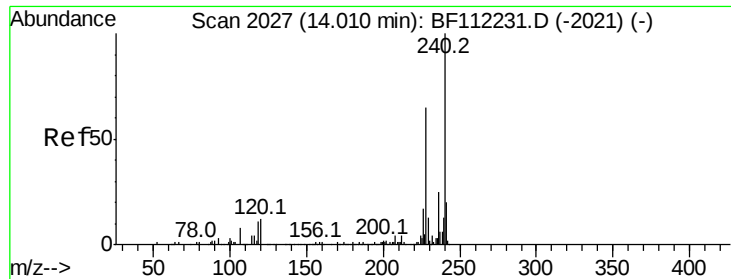
Delta R.T. -0.01 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Tgt Ion:	202	Resp:	2854170
Ion Ratio	Lower	Upper	
202	100		
101	12.1	0.0	31.8
203	18.7	0.0	38.4





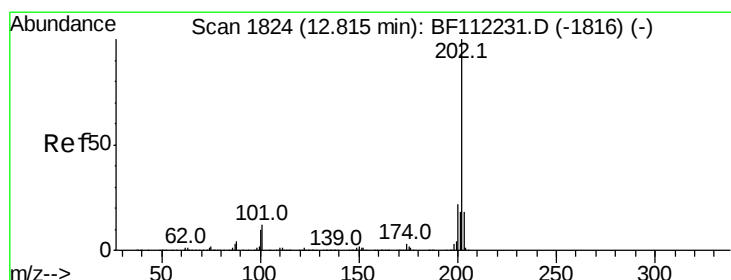
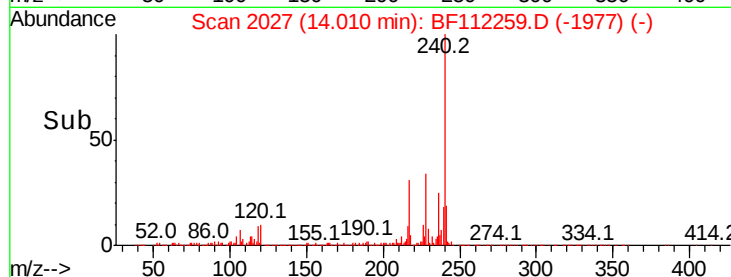
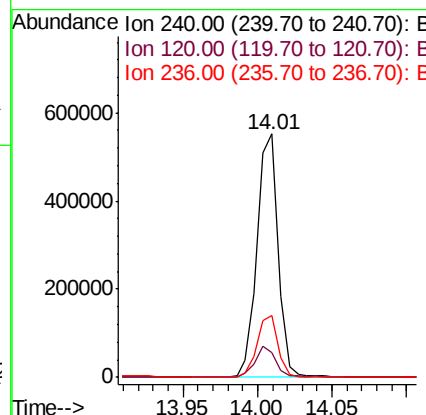
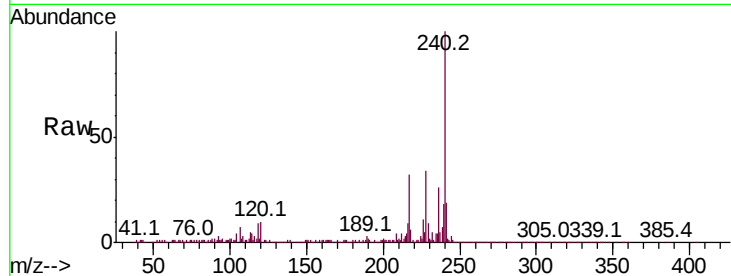
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Instrument :
BNA_F
ClientSampleId :
COMP-1

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.9	9.0	13.6
236	25.6	20.7	31.1

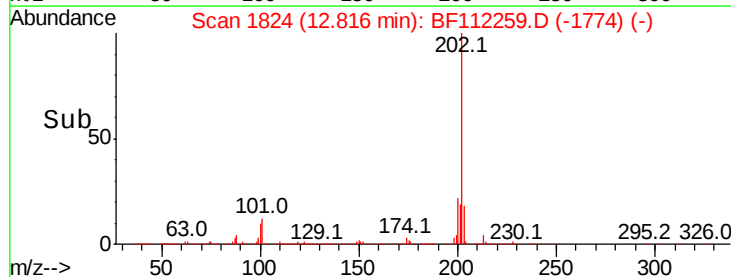
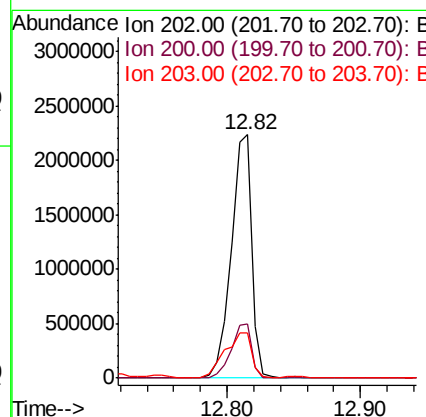
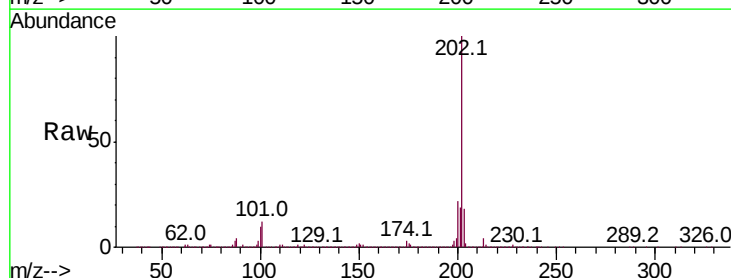
Manual Integrations
APPROVED

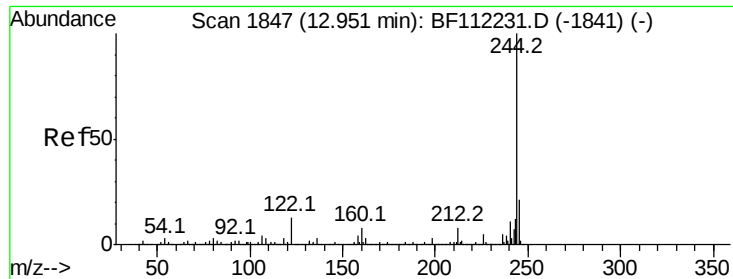
mohammad
1/29/2019 12:32:03 AM



#78
Pyrene
Concen: 65.928 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.7	26.5
203	18.5	14.6	22.0





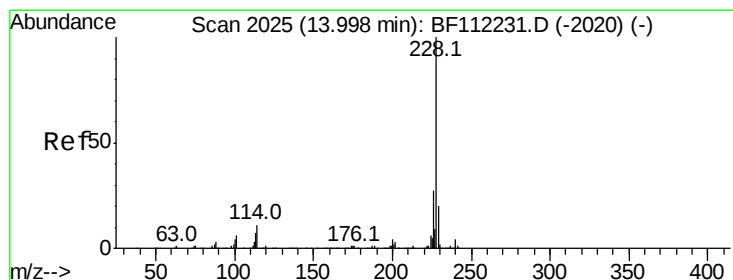
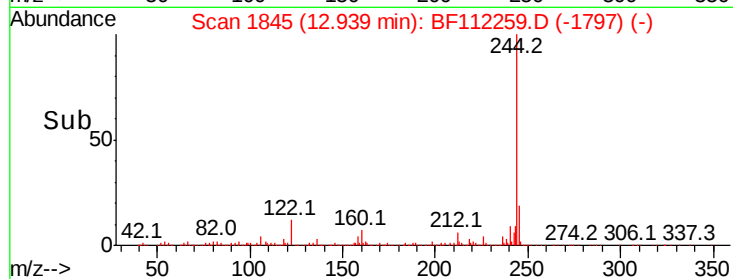
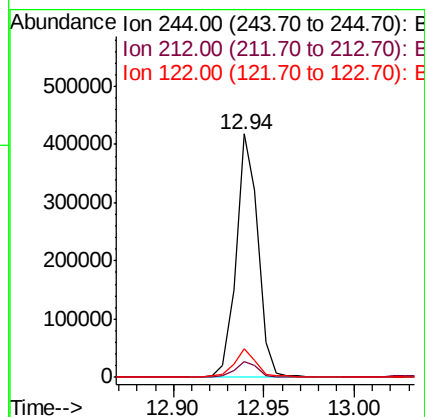
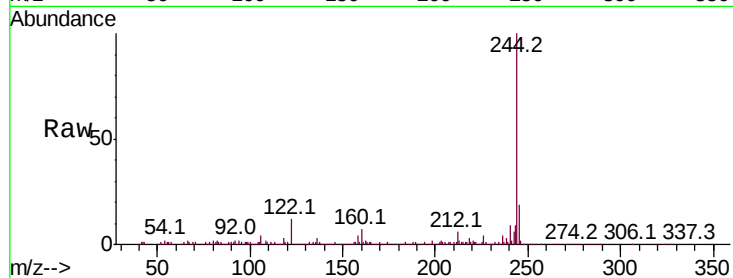
#79
 Terphenyl-d14
 Concen: 12.277 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.02 min
 Lab File: BF112259.D
 Acq: 26 Jan 2019 3:47

Instrument :
 BNA_F
 ClientSampleID :
 COMP-1

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.9	8.9
122	11.7	9.8	14.6

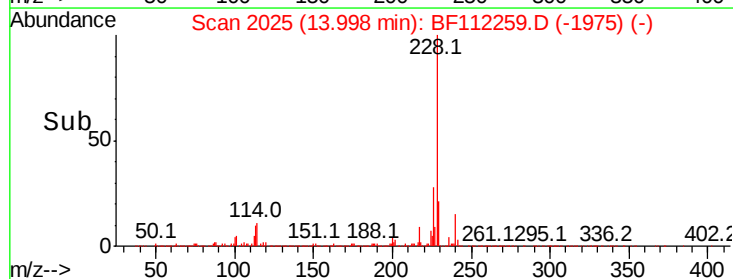
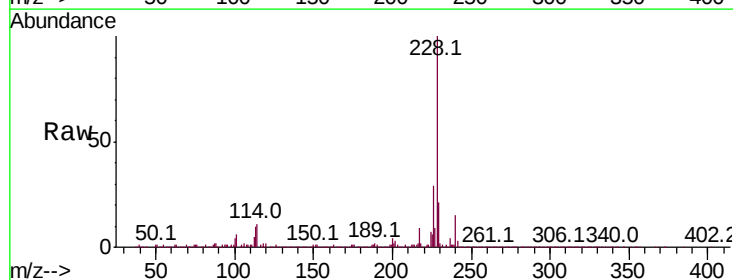
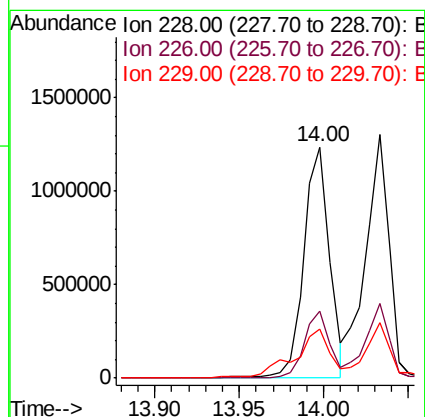
Manual Integrations
 APPROVED

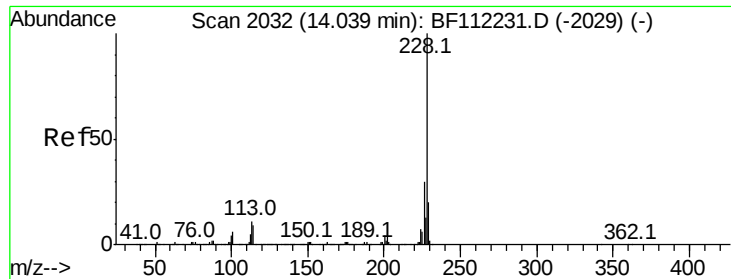
mohammad
 1/29/2019 12:32:03 AM



#81
 Benzo(a)anthracene
 Concen: 41.063 ng
 RT: 14.00 min Scan# 2025
 Delta R.T. -0.01 min
 Lab File: BF112259.D
 Acq: 26 Jan 2019 3:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	34.0
229	21.1	16.5	24.7





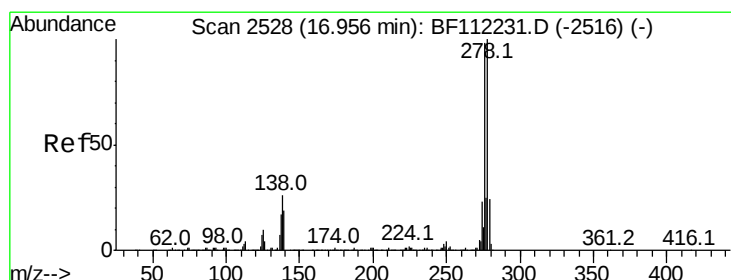
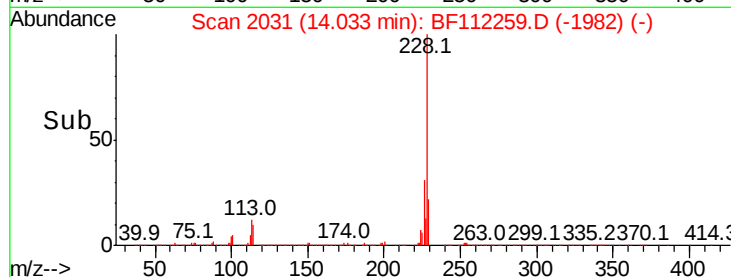
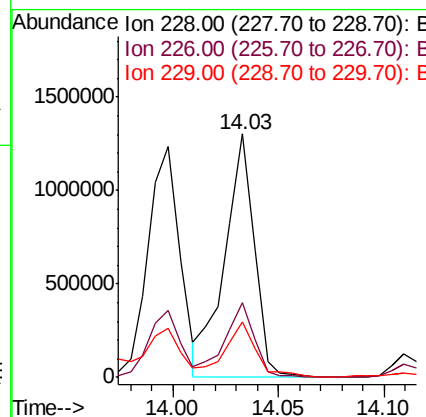
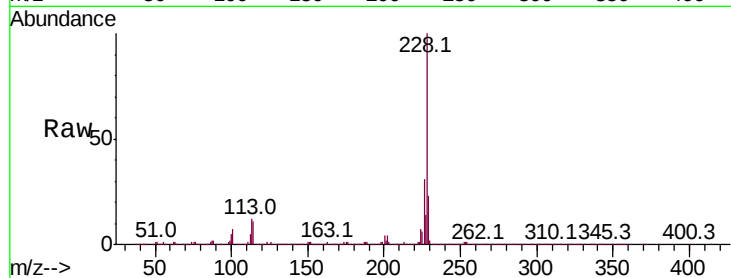
#83
Chrysene
Concen: 41.991 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Instrument :
BNA_F
ClientSampleId :
COMP-1

Tot Ion:228 Resp: 1258974
Ion Ratio Lower Upper
228 100
226 30.7 25.0 37.6
229 22.9 16.6 24.8

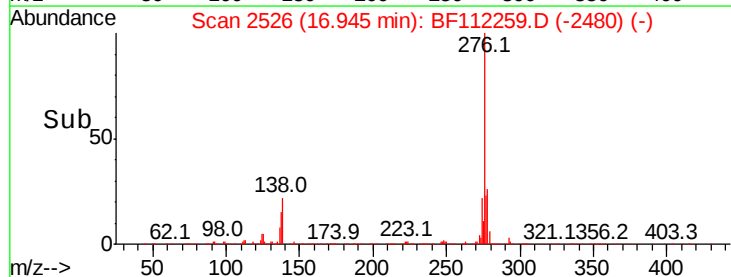
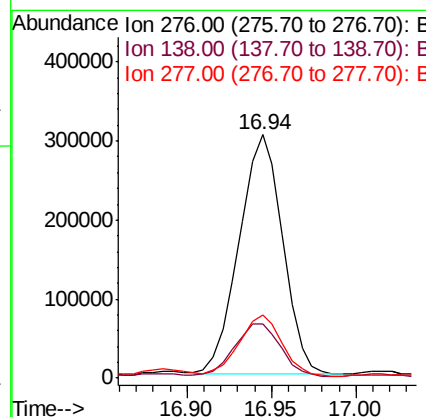
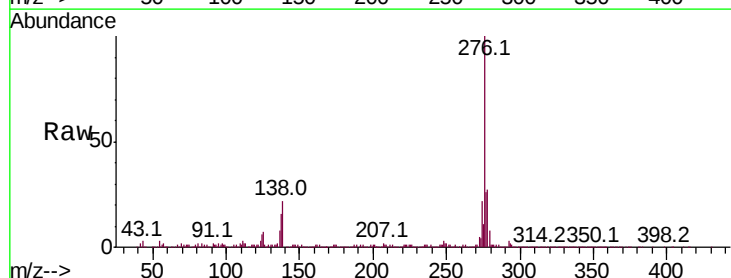
Manual Integrations
APPROVED

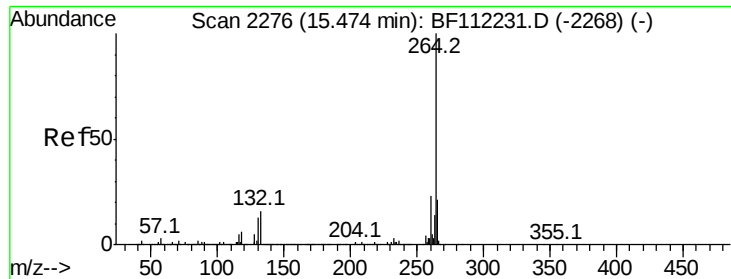
mohammad
1/29/2019 12:32:03 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 22.962 ng
RT: 16.94 min Scan# 2526
Delta R.T. -0.03 min
Lab File: BF112259.D
Acq: 26 Jan 2019 3:47

Tgt Ion:276 Resp: 545524
Ion Ratio Lower Upper
276 100
138 23.6 22.6 34.0
277 25.0 20.3 30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. -0.00 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Instrument :

BNA_F

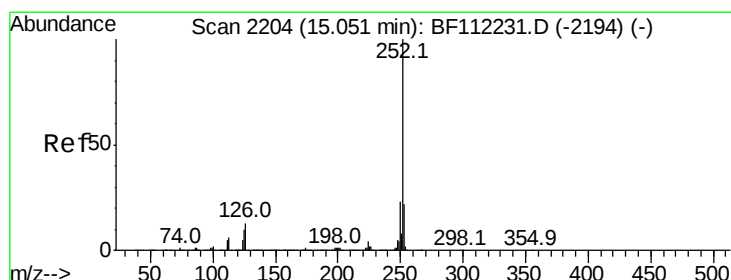
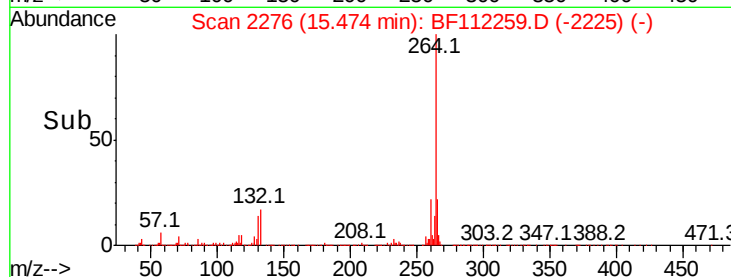
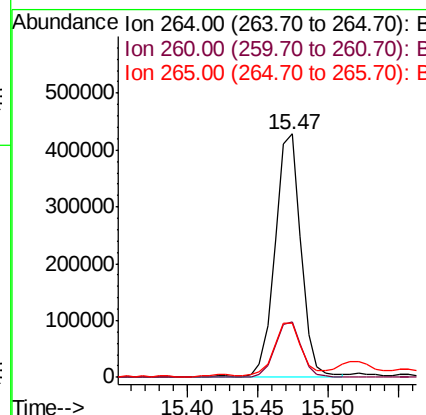
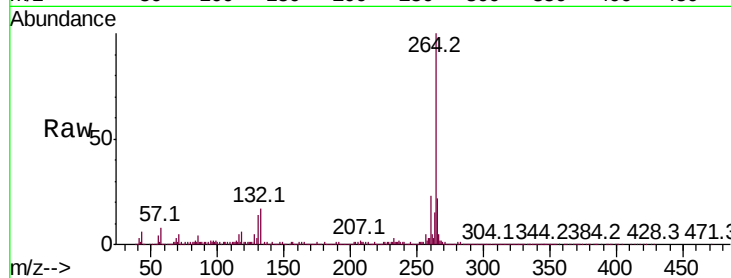
ClientSampleId :

COMP-1

Tot Ion:	264	Resp:	550298
Ion Ratio	Lower	Upper	
264	100		
260	22.6	18.2	27.2
265	22.4	17.0	25.4

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:03 AM



#88

Benzo(b)fluoranthene

Concen: 47.189 ng m

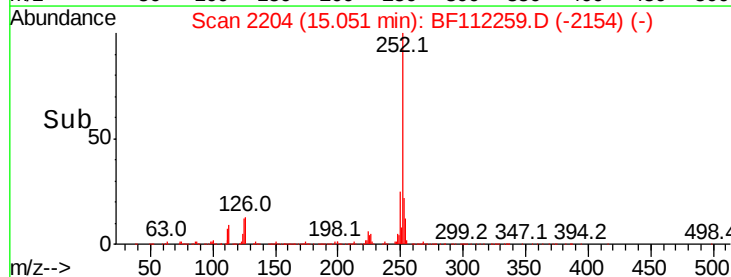
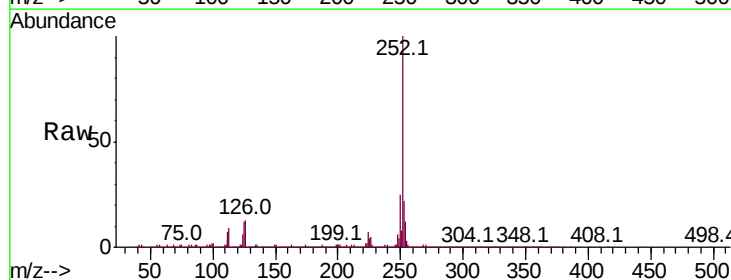
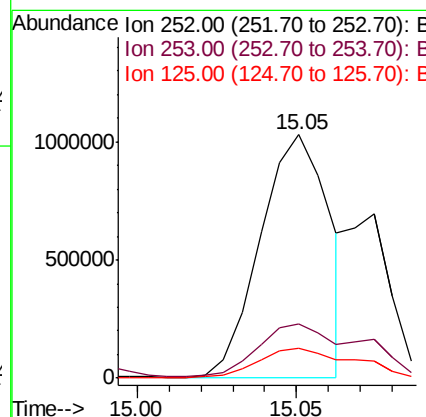
RT: 15.05 min Scan# 2204

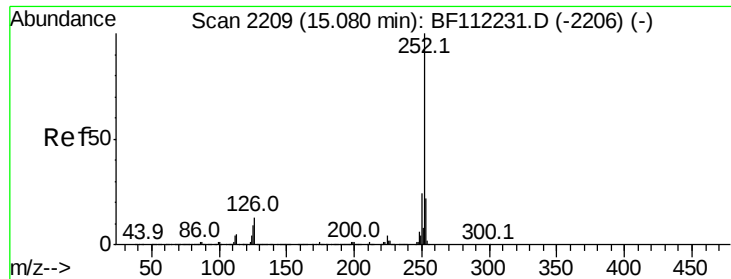
Delta R.T. -0.01 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Tgt Ion:	252	Resp:	1553002
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.0	27.0
125	12.4	8.7	13.1





#89

Benzo(k)fluoranthene

Concen: 19.937 ng m

RT: 15.07 min Scan# 2208

Delta R.T. -0.01 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Instrument :

BNA_F

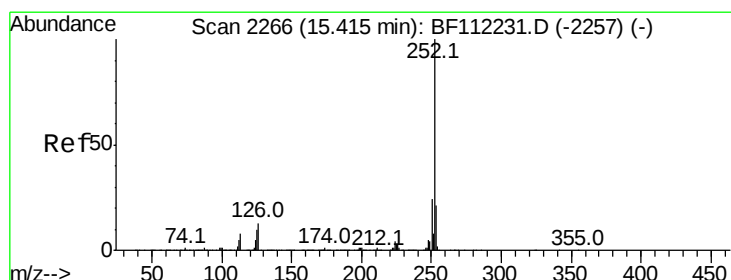
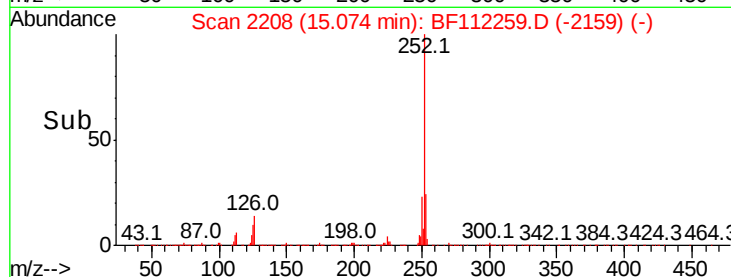
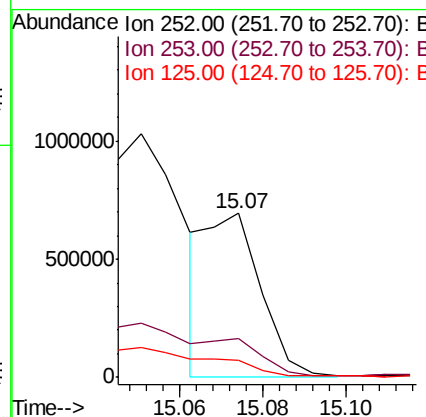
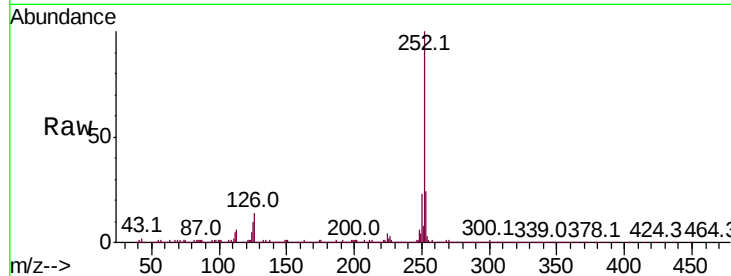
ClientSampled :

COMP-1

Tot Ion:	252	Resp:	628477
Ion Ratio	Lower	Upper	
252	100		
253	24.0	18.0	27.0
125	10.3	9.1	13.7

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:03 AM



#90

Benzo(a)pyrene

Concen: 35.587 ng

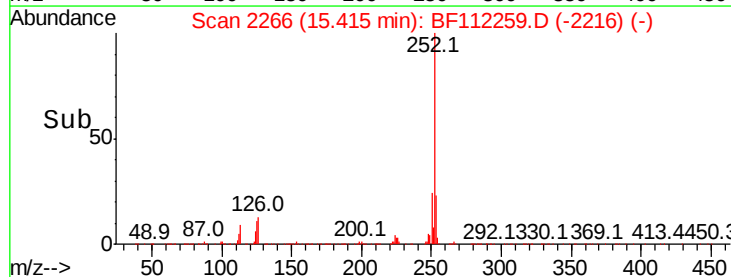
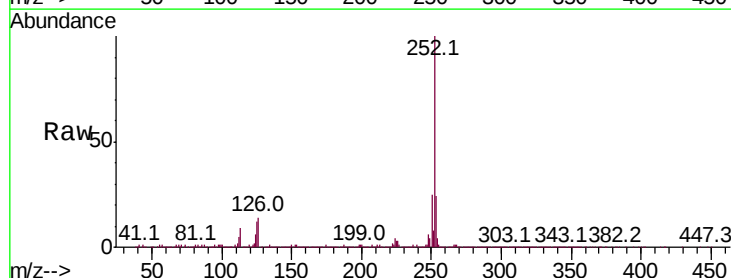
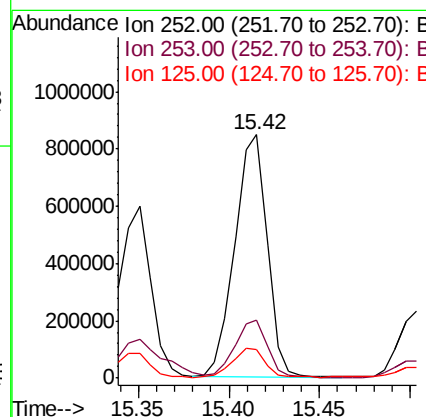
RT: 15.42 min Scan# 2266

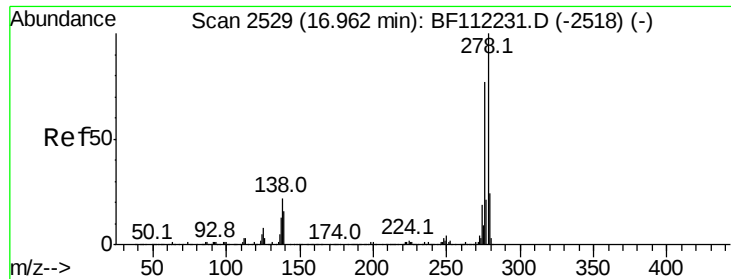
Delta R.T. -0.01 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Tgt Ion:	252	Resp:	1053807
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.5	26.3
125	11.8	9.0	13.4





#91

Dibenzo(a,h)anthracene

Concen: 6.920 ng

RT: 16.94 min Scan# 2526

Delta R.T. -0.04 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Instrument :

BNA_F

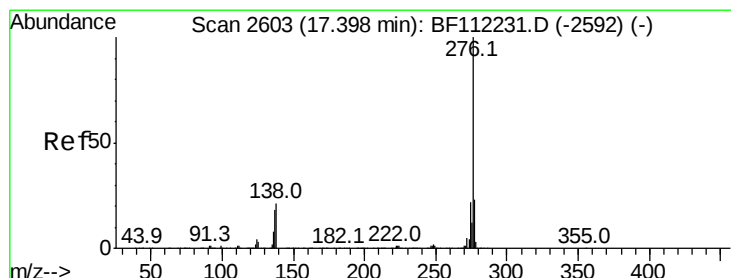
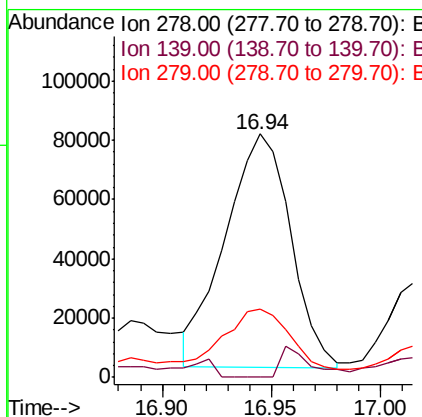
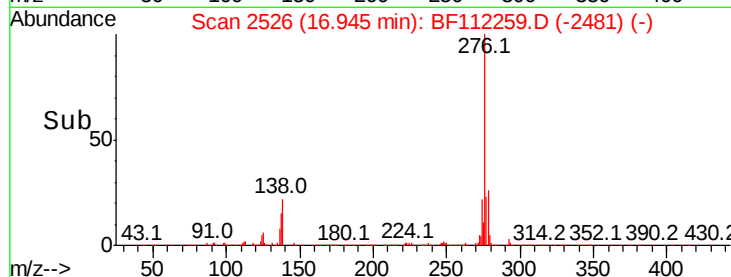
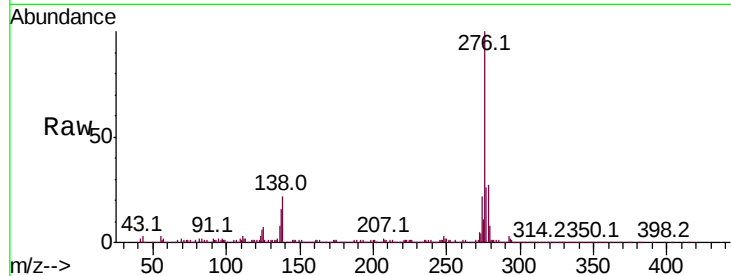
ClientSampled :

COMP-1

Tot Ion:	278	Resp:	165143
Ion Ratio	Lower	Upper	
278	100		
139	0.0	13.7	20.5#
279	28.2	19.0	28.6

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:03 AM



#92

Benzo(g,h,i)perylene

Concen: 21.470 ng

RT: 17.39 min Scan# 2602

Delta R.T. -0.02 min

Lab File: BF112259.D

Acq: 26 Jan 2019 3:47

Tgt Ion:	276	Resp:	483438
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.4	29.0
138	21.1	19.1	28.7

