

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114681.D
 Acq On : 31 May 2019 00:46
 Operator : HP/JU
 Sample : K3002-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-Z1-20190418

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:47:49 AM

Quant Time: May 31 07:33:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 19:08:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	389905	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	1424317	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	640419	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	1107133	20.00	ng	0.00
76) Chrysene-d12	13.82	240	761755	20.00	ng	0.00
87) Perylene-d12	15.21	264	617590	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	648738	29.21	ng	0.00
7) Phenol-d6	6.32	99	917402	34.28	ng	0.00
23) Nitrobenzene-d5	7.25	82	546016	23.92	ng	0.00
42) 2,4,6-Tribromophenol	10.50	330	89006	14.59	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	1065612	18.79	ng	0.00
79) Terphenyl-d14	12.77	244	987420	24.37	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.00	128	152419	2.323	ng	96
50) Dimethylphthalate	9.44	163	132243	2.963	ng	99
52) Acenaphthene	9.75	154	80166	2.170	ng	99
55) Dibenzofuran	9.92	168	115152	2.190	ng	97
71) Phenanthrene	11.22	178	642524	11.377	ng	97
72) Anthracene	11.27	178	190954	3.341	ng	97
75) Fluoranthene	12.40	202	966858	16.533	ng	95
78) Pyrene	12.63	202	880371	13.662	ng	97
81) Benzo(a)anthracene	13.81	228	359480	6.141	ng	99
83) Chrysene	13.84	228	339471	6.070	ng	96
86) Indeno(1,2,3-cd)pyrene	16.53	276	125727	2.245	ng	94
88) Benzo(b)fluoranthene	14.82	252	304628m	7.831	ng	
89) Benzo(k)fluoranthene	14.84	252	113328m	3.352	ng	
90) Benzo(a)pyrene	15.15	252	210749	6.167	ng	# 92
92) Benzo(a,h,i)perylene	16.93	276	120117	4.099	ng	99

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

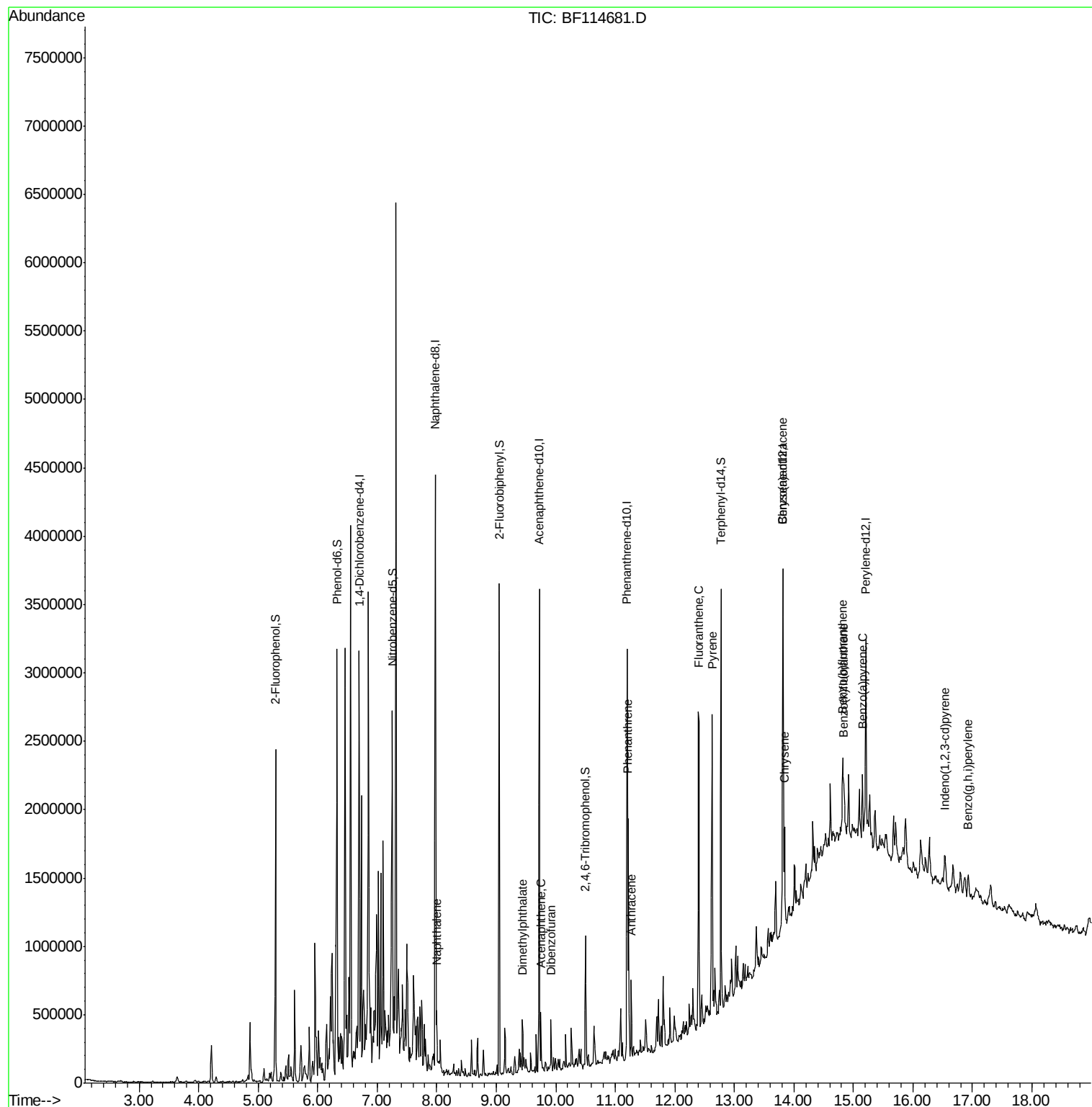
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114681.D
Acq On : 31 May 2019 00:46
Operator : HP/JU
Sample : K3002-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

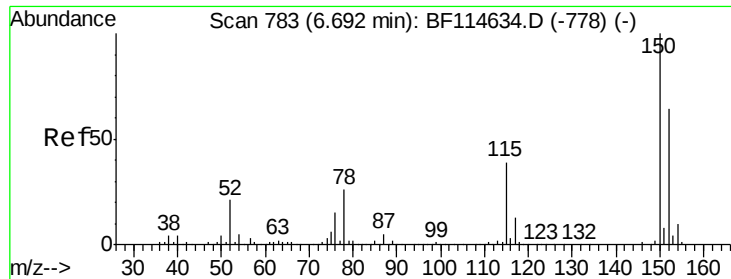
Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM

Quant Time: May 31 07:33:13 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 29 19:08:51 2019
Response via : Initial Calibration





#1

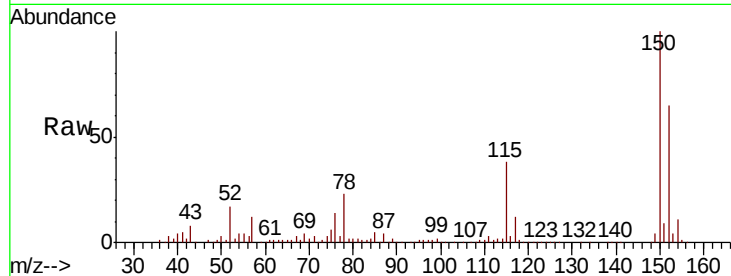
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.01 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.4	186.6
115	58.2	48.7	73.1

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM

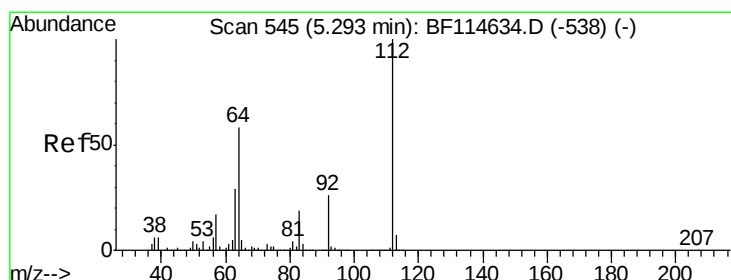
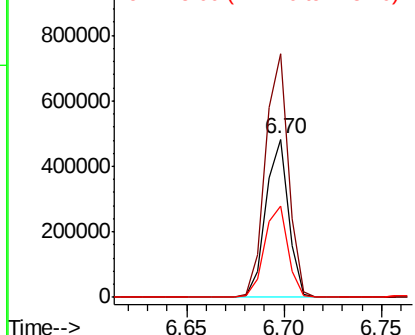
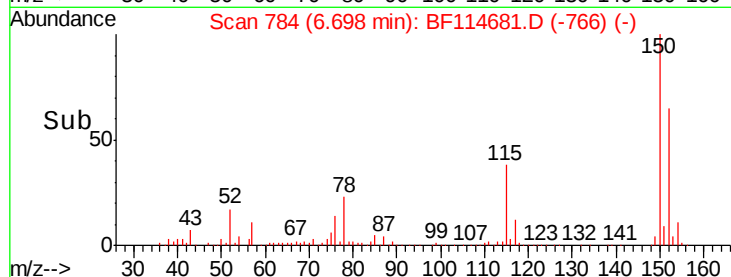


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

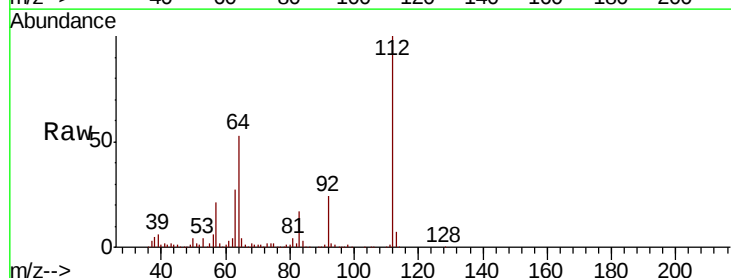
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 29.212 ng
RT: 5.29 min Scan# 545
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.0	46.1	69.1
63	27.0	23.4	35.2

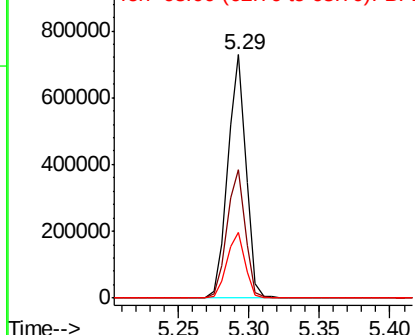
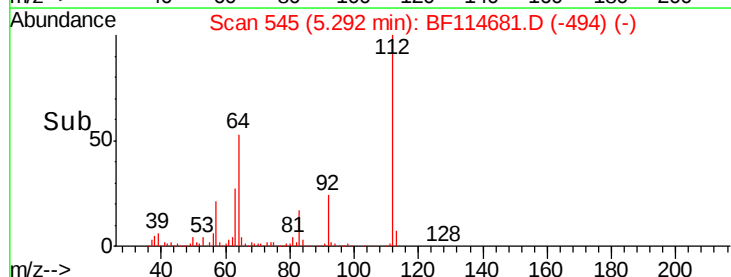


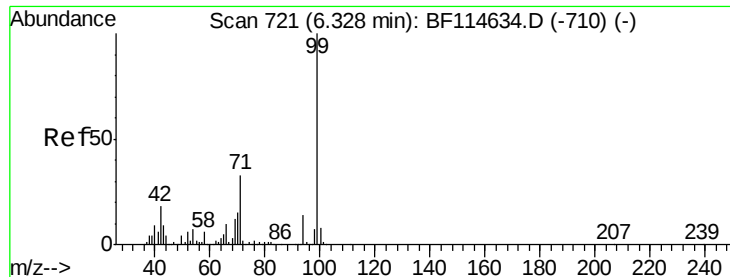
Abundance

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: 34.281 ng

RT: 6.32 min Scan# 720

Delta R.T. -0.01 min

Lab File: BF114681.D

Acq: 31 May 2019 00:46

Instrument :

BNA_F

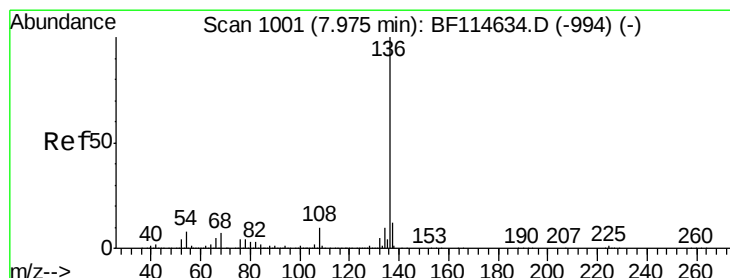
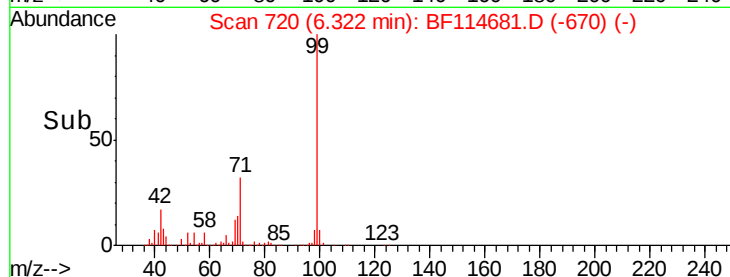
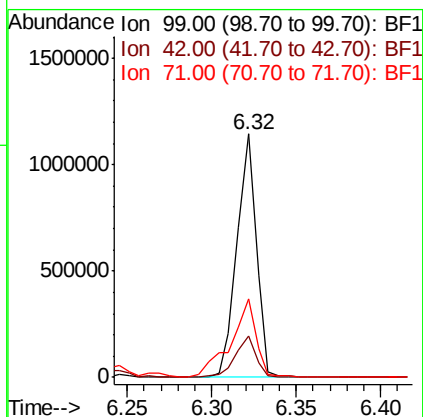
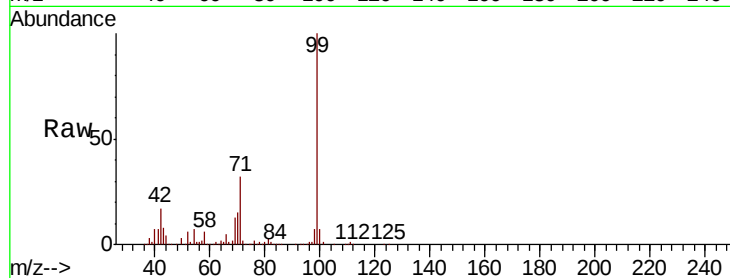
ClientSampleId :

COMP-Z1-20190418

Tot Ion:	99	Resp:	917402
Ion Ratio	Lower	Upper	
99	100		
42	16.9	14.7	22.1
71	32.4	26.6	40.0

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM



#21

Naphthalene-d8

Concen: 20.000 ng

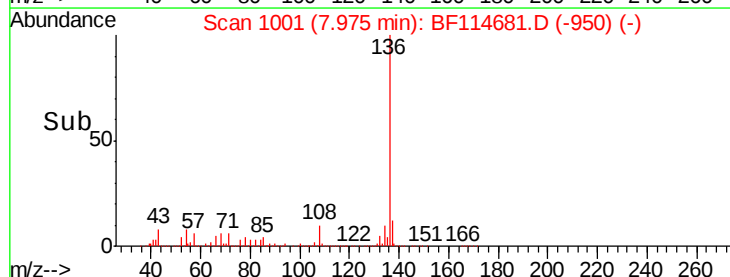
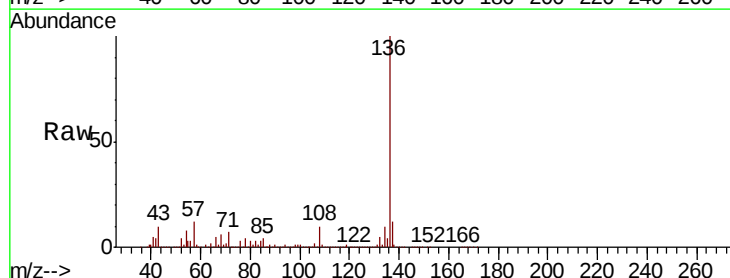
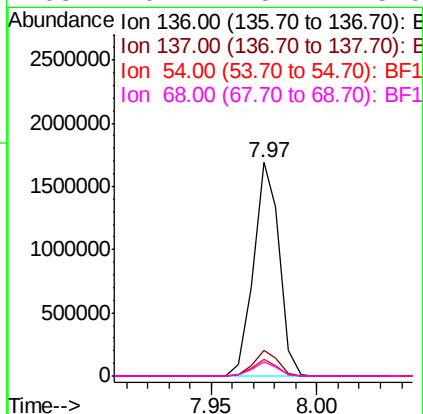
RT: 7.97 min Scan# 1001

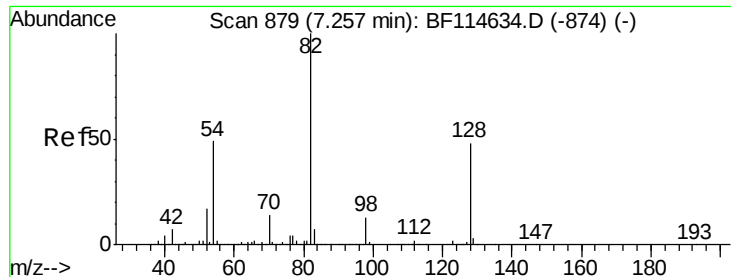
Delta R.T. -0.00 min

Lab File: BF114681.D

Acq: 31 May 2019 00:46

Tgt Ion:	136	Resp:	1424317
Ion Ratio	Lower	Upper	
136	100		
137	11.9	9.3	13.9
54	7.7	6.3	9.5
68	6.4	5.4	8.0





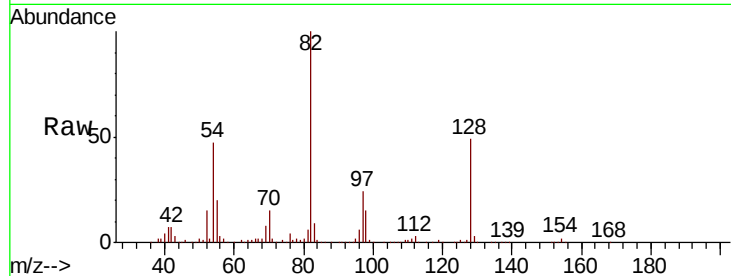
#23
Nitrobenzene-d5
Concen: 23.917 ng
RT: 7.25 min Scan# 878
Delta R.T. -0.01 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.4	38.5	57.7
54	46.6	39.1	58.7

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM

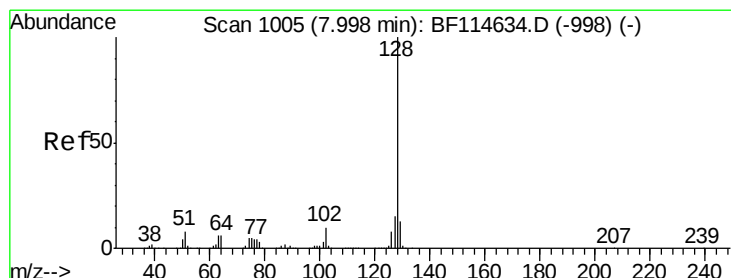
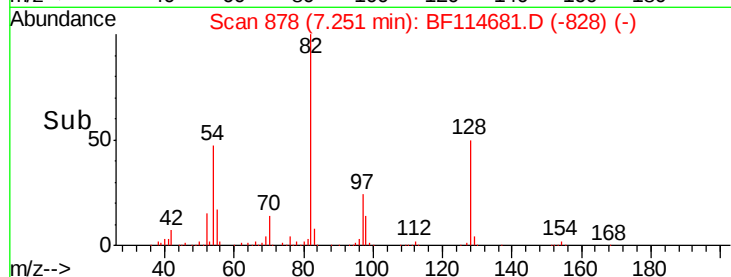
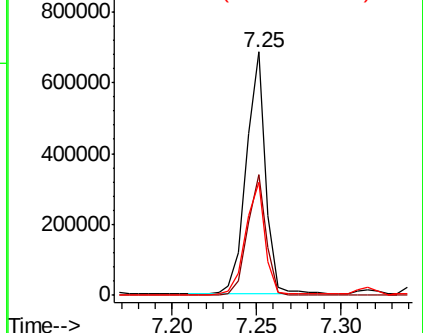


Abundance

Ion 82.00 (81.70 to 82.70): BF1

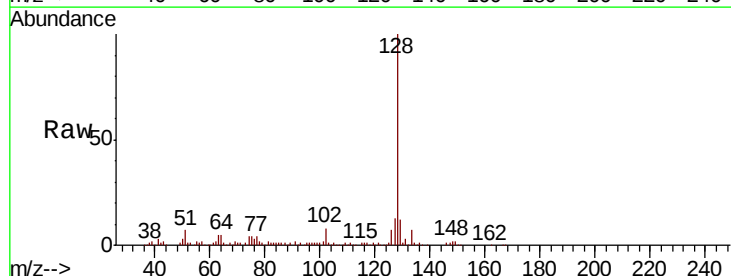
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 2.323 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	10.2	15.2
127	13.0	11.9	17.9

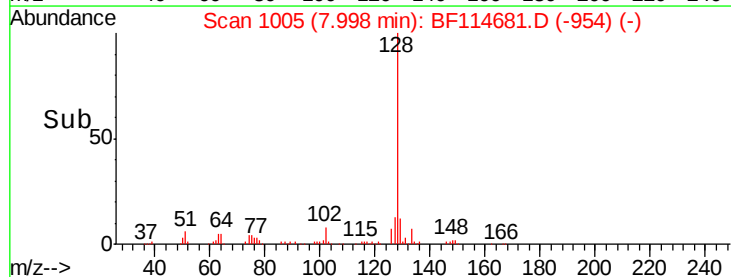
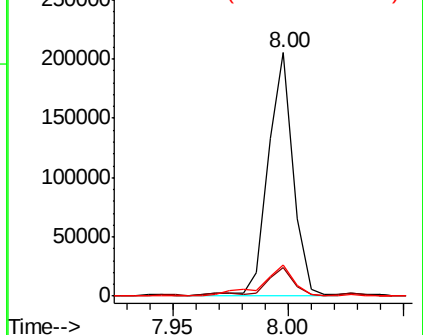


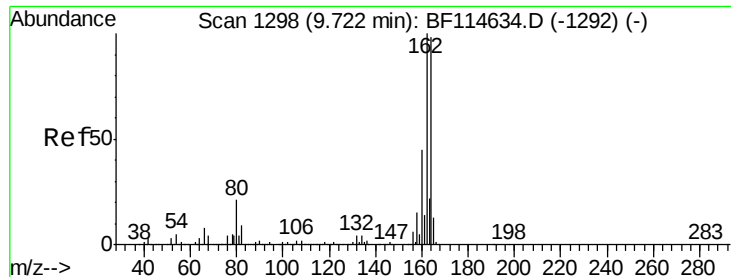
Abundance

Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1





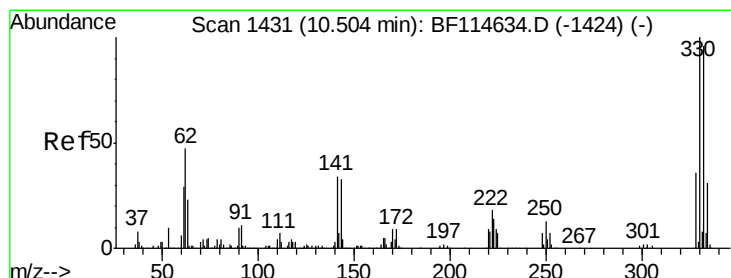
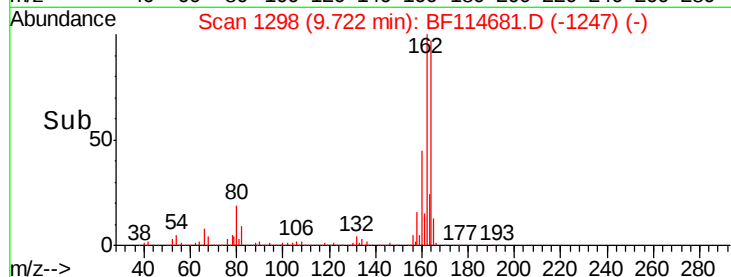
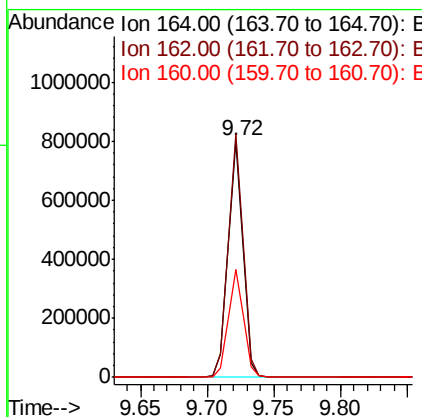
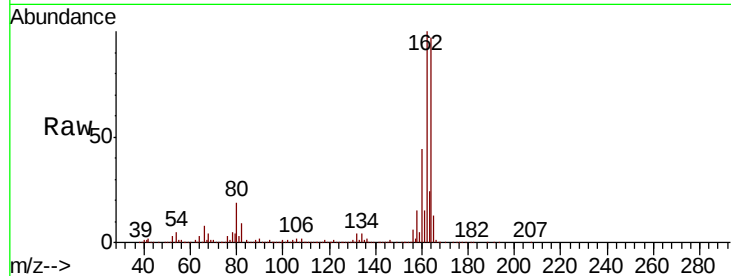
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.0	81.4	122.2	
160	45.8	36.6	54.8	

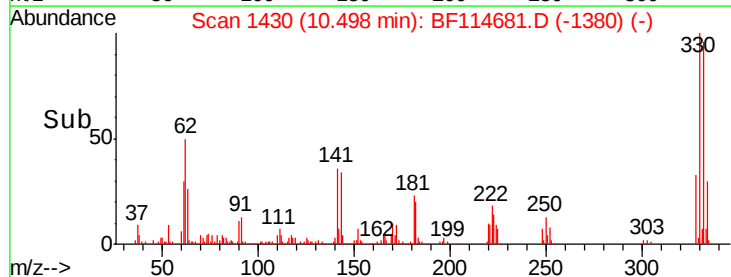
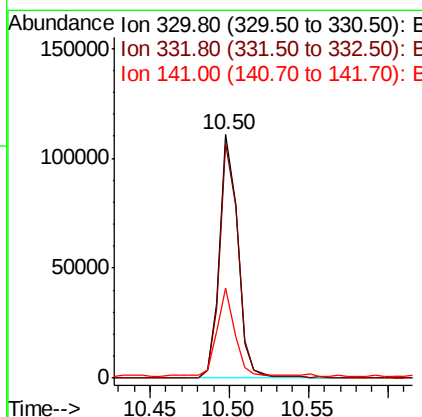
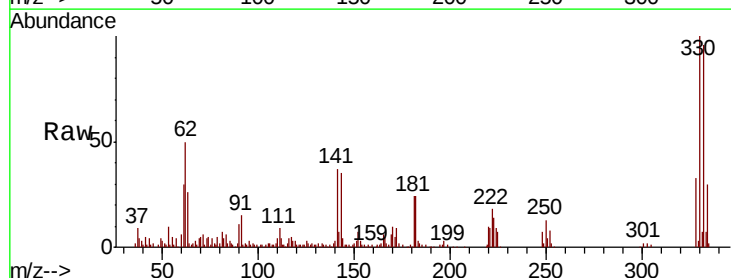
Manual Integrations
APPROVED

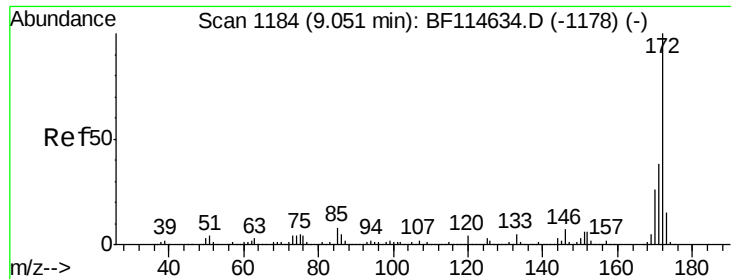
mohammad
6/3/2019 8:47:49 AM



#42
2,4,6-Tribromophenol
Concen: 14.586 ng
RT: 10.50 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.7	75.8	113.8	
141	35.9	27.8	41.8	





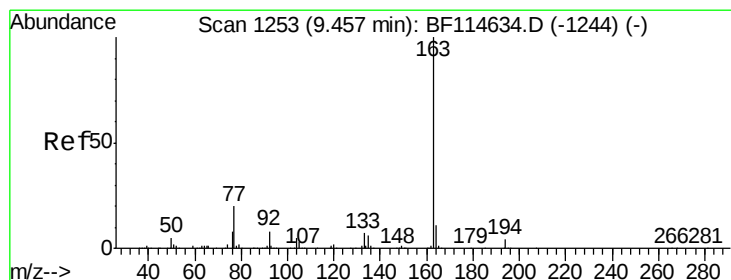
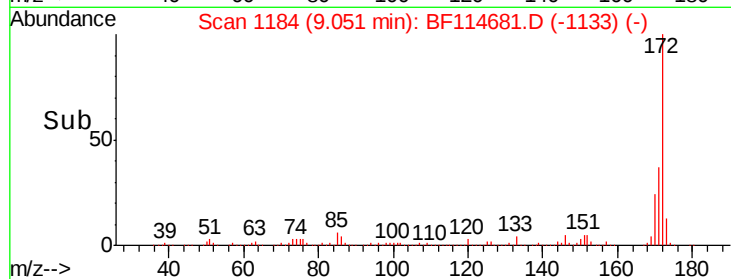
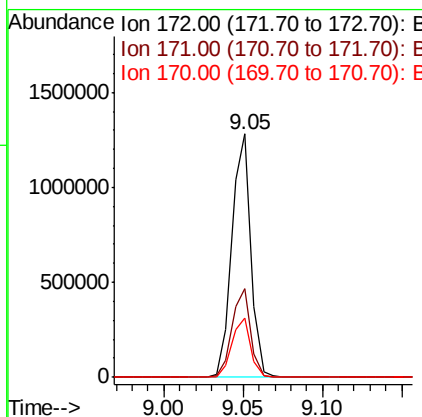
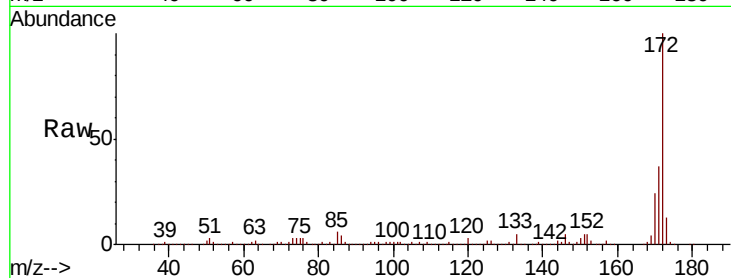
#45
2-Fluorobiphenyl
Concen: 18.793 ng
RT: 9.05 min Scan# 1184
Delta R.T. 0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.6	30.6	45.8
170	24.3	20.7	31.1

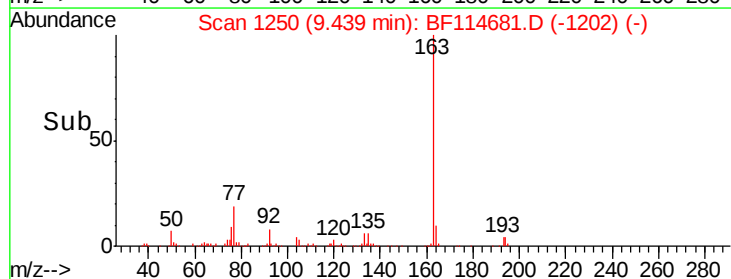
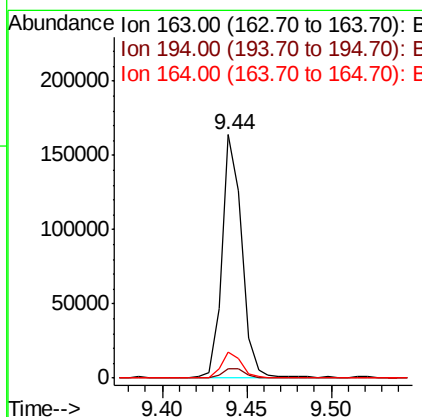
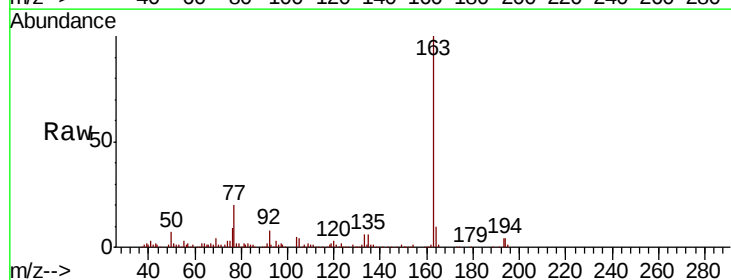
Manual Integrations
APPROVED

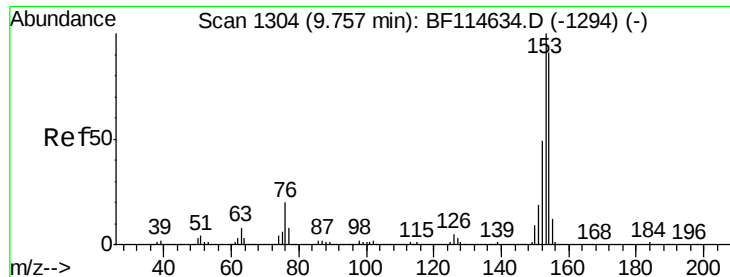
mohammad
6/3/2019 8:47:49 AM



#50
Dimethylphthalate
Concen: 2.963 ng
RT: 9.44 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.4	5.0
164	10.4	8.6	13.0





#52

Acenaphthene

Concen: 2.170 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF114681.D

Acq: 31 May 2019 00:46

Instrument :

BNA_F

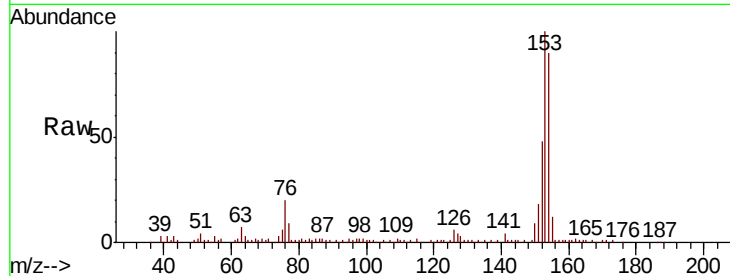
ClientSampleId :

COMP-Z1-20190418

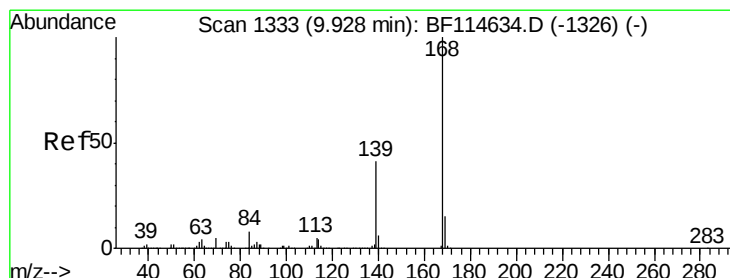
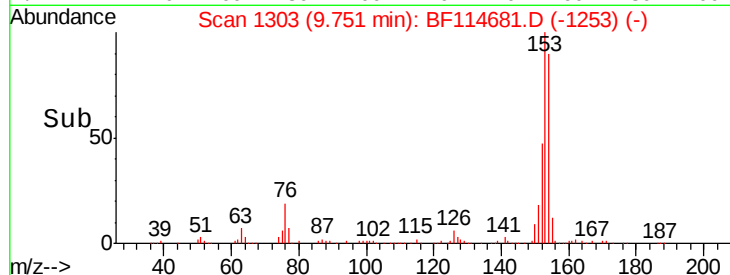
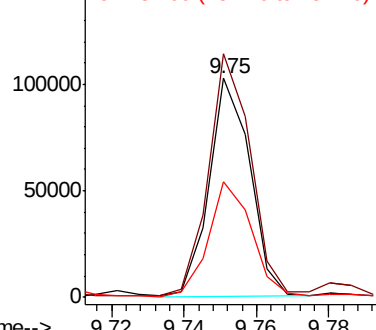
Tot Ion:	154	Resp:	80166
Ion Ratio	Lower	Upper	
154	100		
153	111.1	88.4	132.6
152	53.0	43.4	65.0

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 2.190 ng

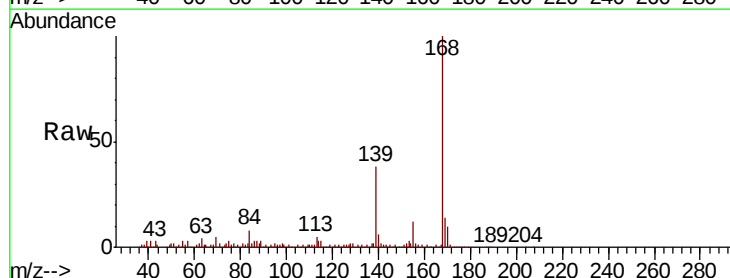
RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

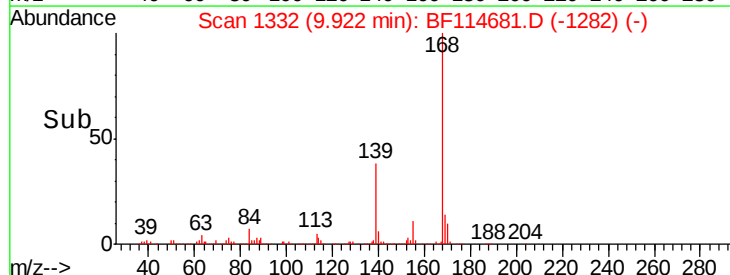
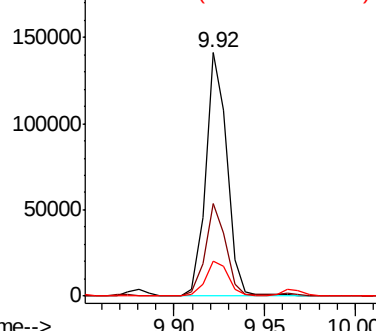
Lab File: BF114681.D

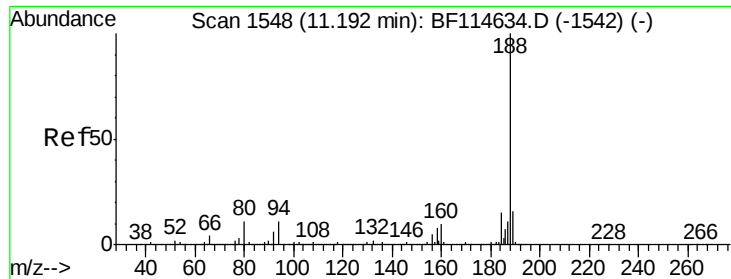
Acq: 31 May 2019 00:46

Tgt Ion:	168	Resp:	115152
Ion Ratio	Lower	Upper	
168	100		
139	38.1	32.6	48.8
169	14.5	11.8	17.8



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.20 min Scan# 1549

Delta R.T. 0.01 min

Lab File: BF114681.D

Acq: 31 May 2019 00:46

Instrument :

BNA_F

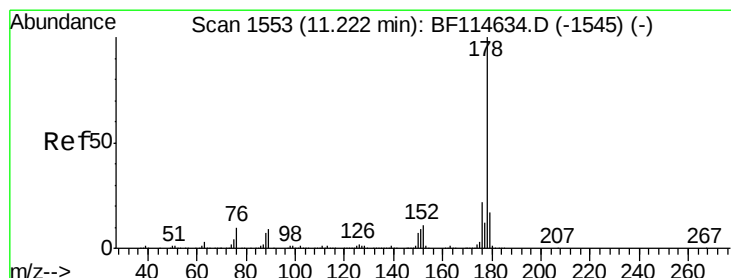
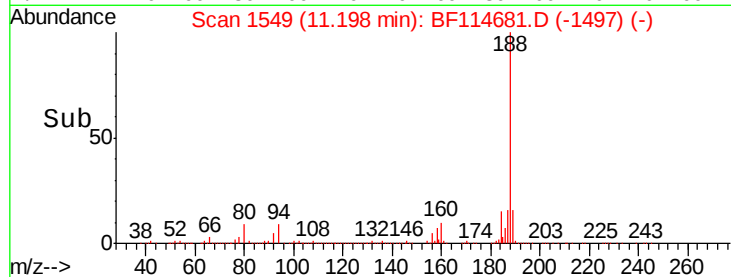
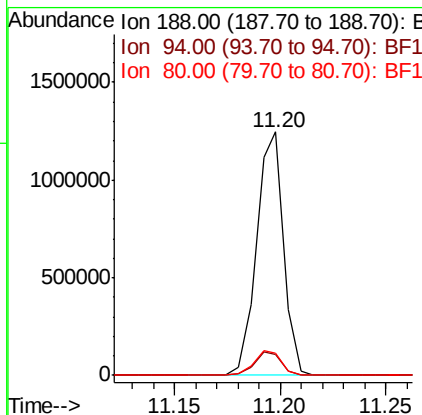
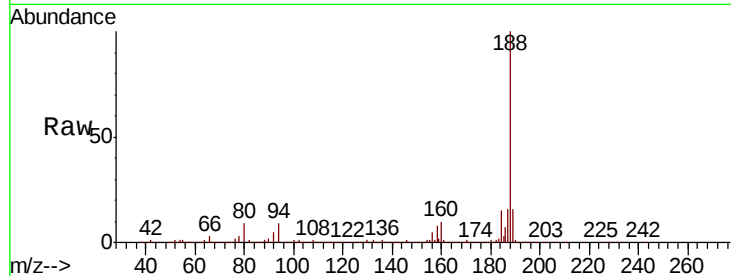
ClientSampleId :

COMP-Z1-20190418

Tot Ion	188	Resp	1107133
Ion Ratio	Lower	Upper	
188	100		
94	8.8	8.6	13.0
80	9.0	9.0	13.6#

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM



#71

Phenanthrene

Concen: 11.377 ng

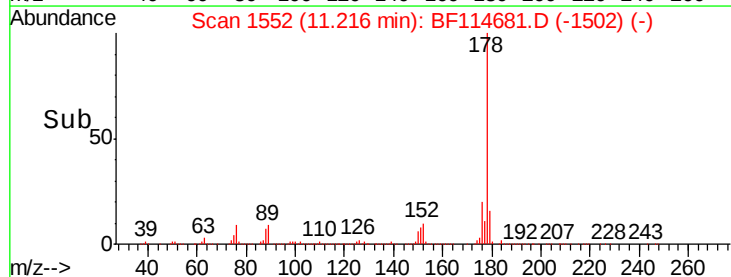
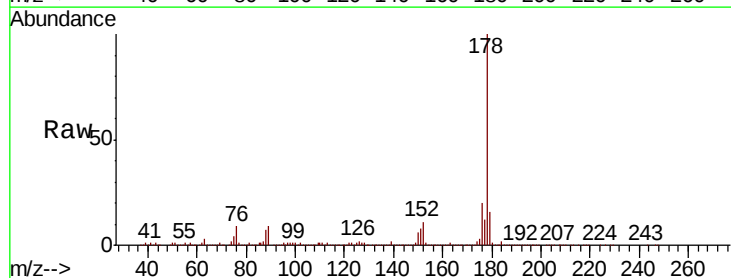
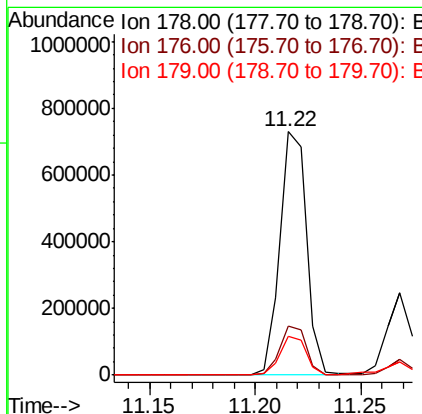
RT: 11.22 min Scan# 1552

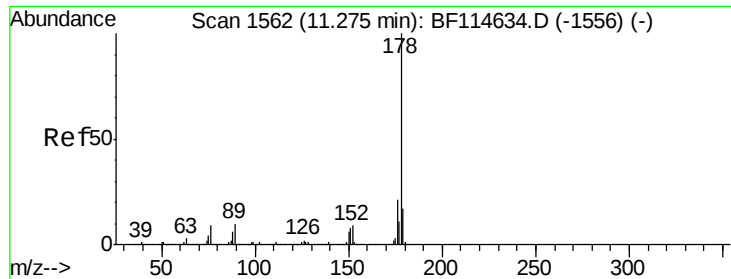
Delta R.T. -0.01 min

Lab File: BF114681.D

Acq: 31 May 2019 00:46

Tgt Ion	178	Resp	642524
Ion Ratio	Lower	Upper	
178	100		
176	19.9	17.2	25.8
179	15.9	13.9	20.9





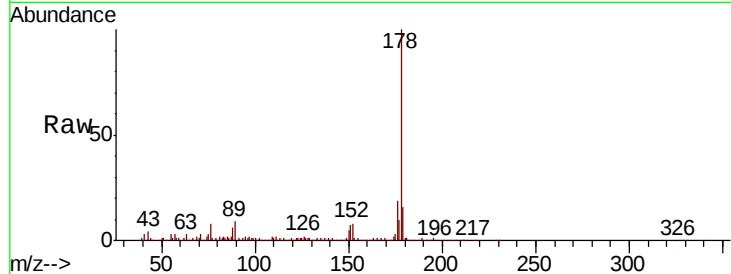
#72
 Anthracene
 Concen: 3.341 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: BF114681.D
 Acq: 31 May 2019 00:46

Instrument :
 BNA_F
 ClientSampleId :
 COMP-Z1-20190418

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	16.6	24.8
179	16.0	13.4	20.0

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:47:49 AM

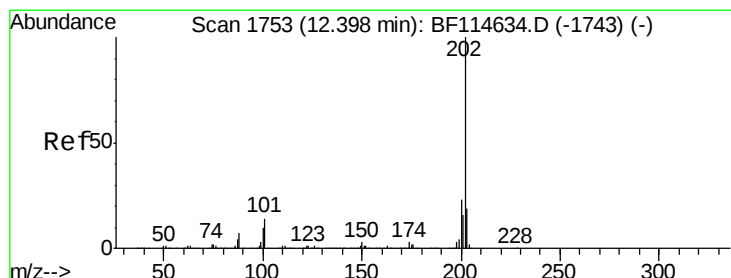
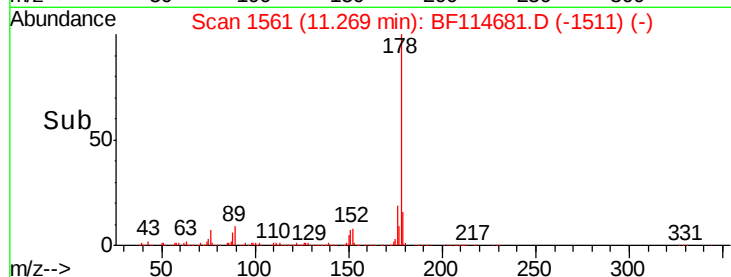
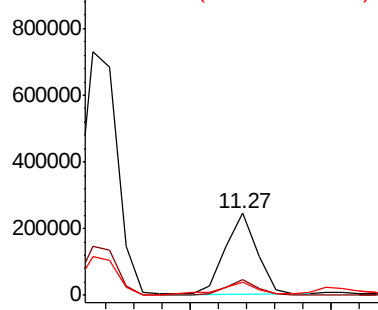


Abundance

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



#75
 Fluoranthene
 Concen: 16.533 ng
 RT: 12.40 min Scan# 1754
 Delta R.T. 0.01 min
 Lab File: BF114681.D
 Acq: 31 May 2019 00:46

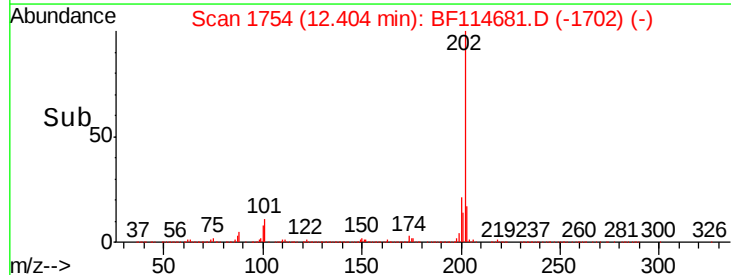
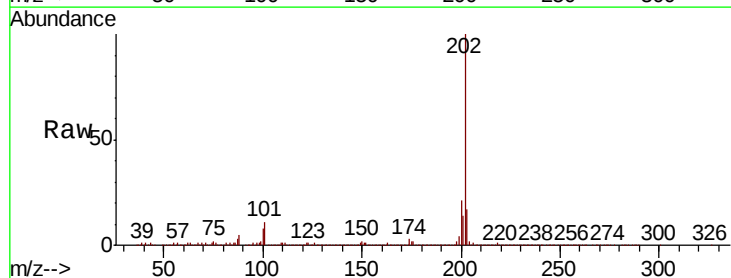
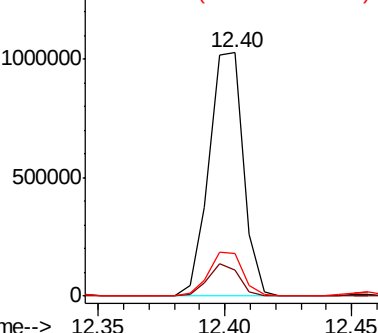
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	33.9
203	17.5	0.0	39.1

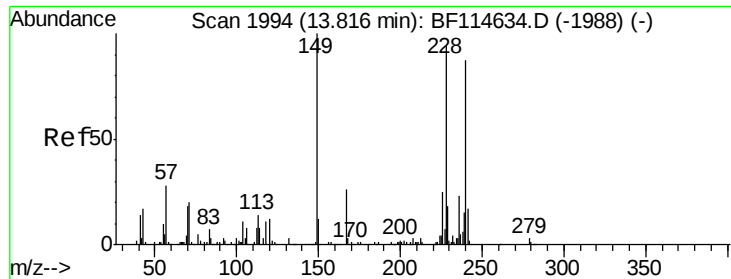
Abundance

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





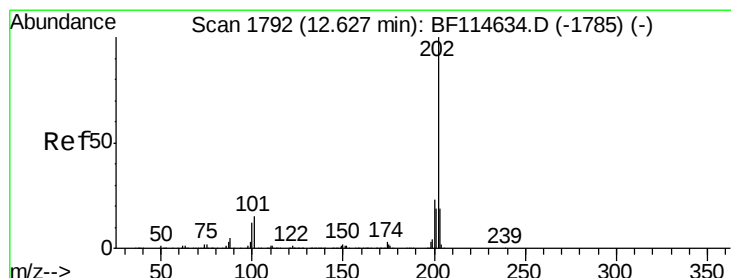
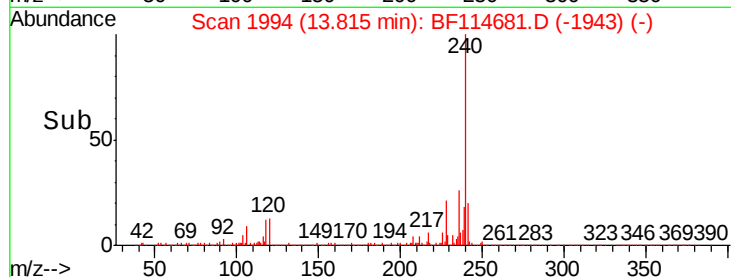
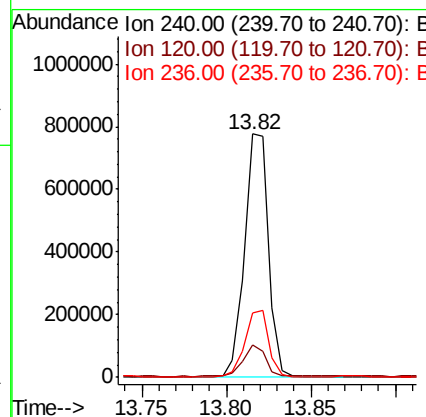
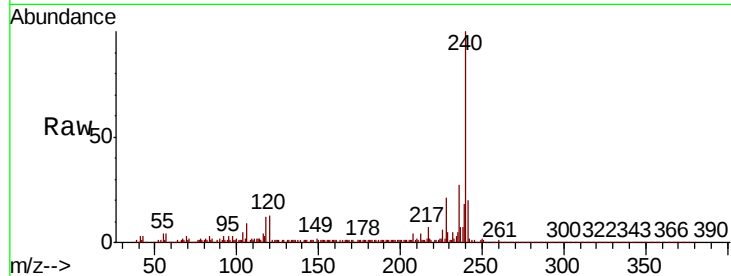
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.82 min Scan# 1994
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	13.4	11.2	16.8	
236	26.6	21.2	31.8	

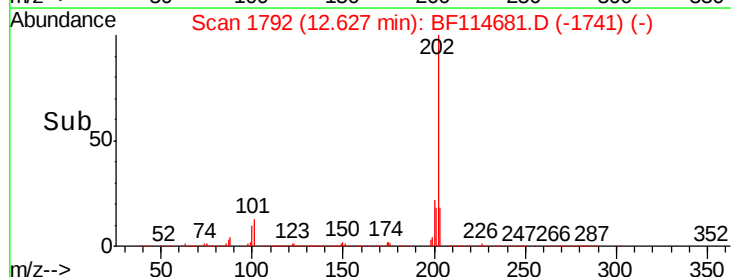
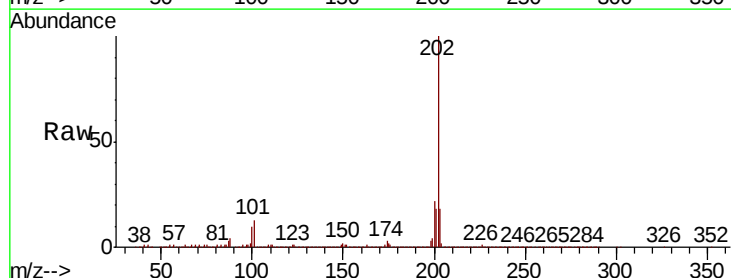
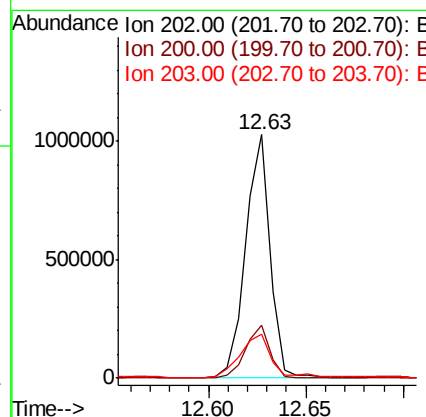
Manual Integrations
APPROVED

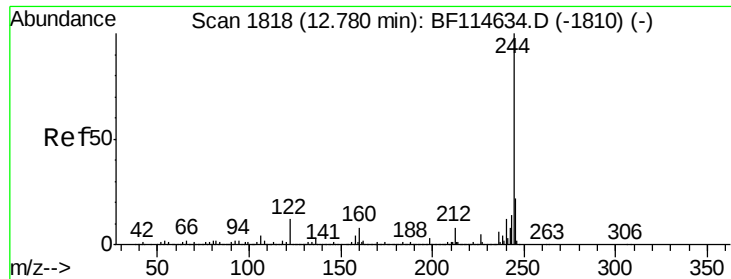
mohammad
6/3/2019 8:47:49 AM



#78
Pyrene
Concen: 13.662 ng
RT: 12.63 min Scan# 1792
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.6	18.6	28.0	
203	18.3	15.4	23.2	





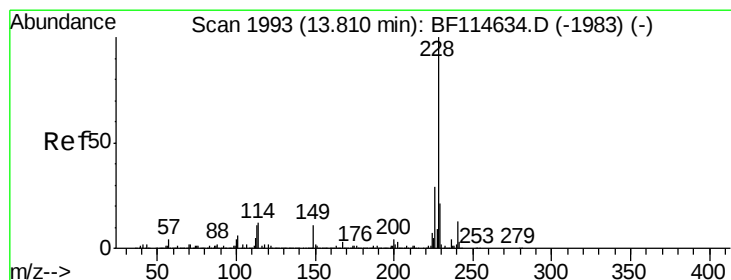
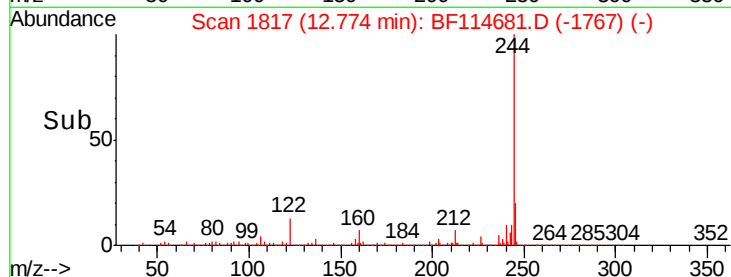
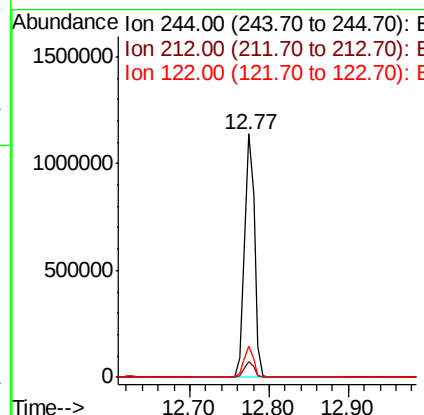
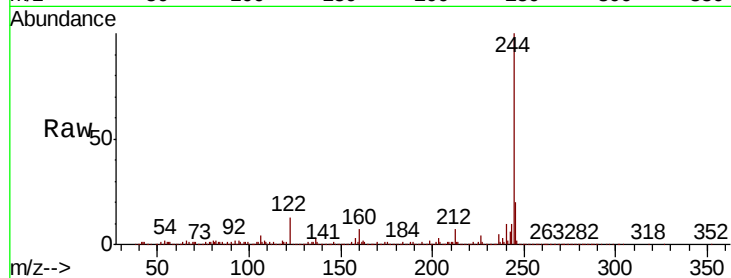
#79
 Terphenyl-d14
 Concen: 24.371 ng
 RT: 12.77 min Scan# 1817
 Delta R.T. -0.01 min
 Lab File: BF114681.D
 Acq: 31 May 2019 00:46

Instrument :
 BNA_F
 ClientSampleId :
 COMP-Z1-20190418

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.1	9.1
122	12.8	9.8	14.8

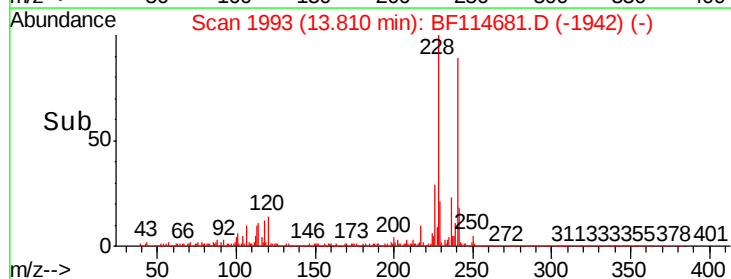
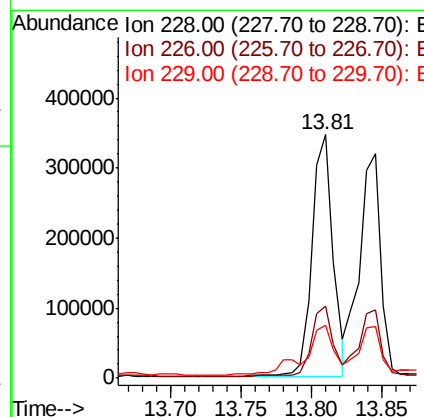
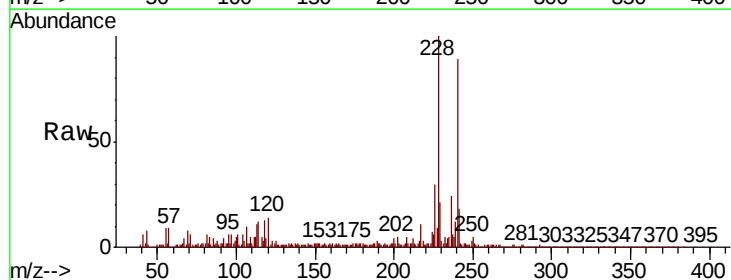
Manual Integrations
 APPROVED

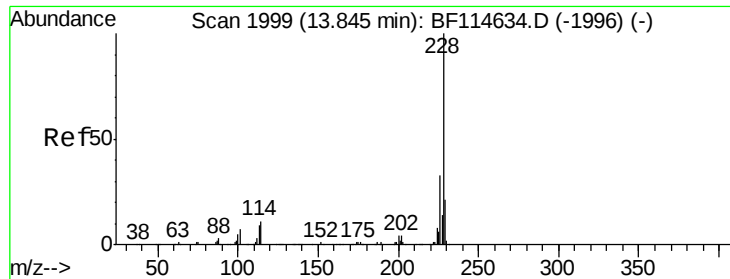
mohammad
 6/3/2019 8:47:49 AM



#81
 Benzo(a)anthracene
 Concen: 6.141 ng
 RT: 13.81 min Scan# 1993
 Delta R.T. -0.00 min
 Lab File: BF114681.D
 Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.0	34.6
229	21.5	17.0	25.4





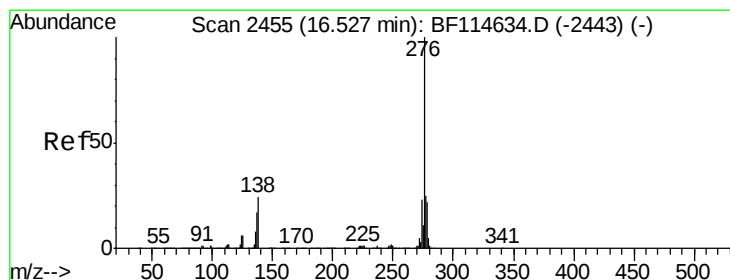
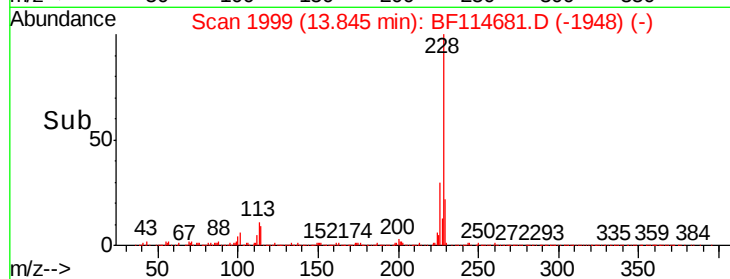
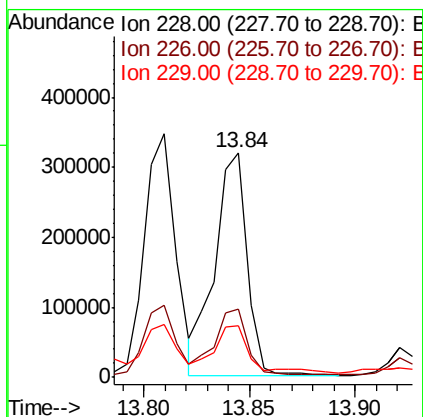
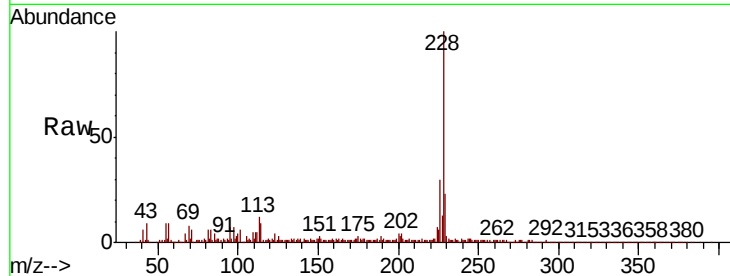
#83
Chrysene
Concen: 6.070 ng
RT: 13.84 min Scan# 1999
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	26.4	39.6
229	22.7	17.1	25.7

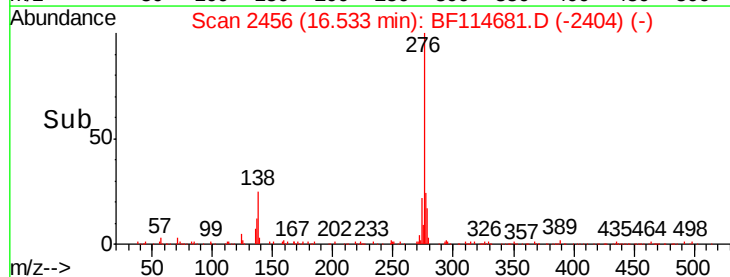
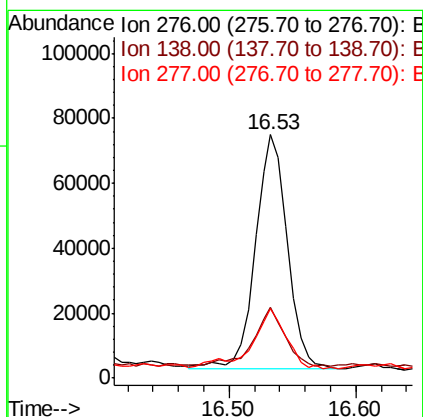
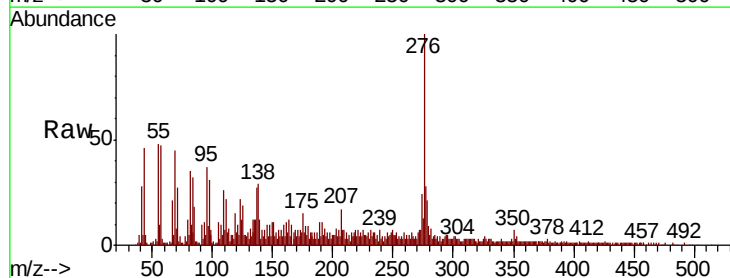
Manual Integrations
APPROVED

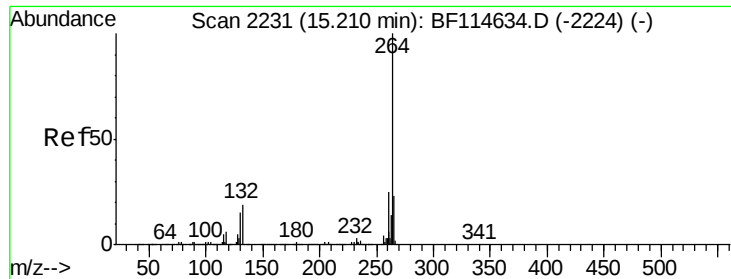
mohammad
6/3/2019 8:47:49 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.245 ng
RT: 16.53 min Scan# 2456
Delta R.T. 0.01 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.4	23.0	34.6
277	23.9	20.5	30.7





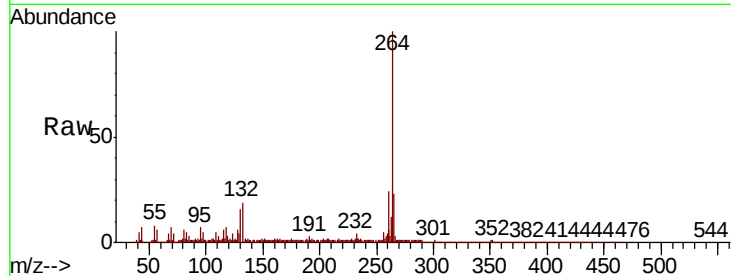
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Instrument :
BNA_F
ClientSampleId :
COMP-Z1-20190418

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.7	29.5
265	22.6	18.1	27.1

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM

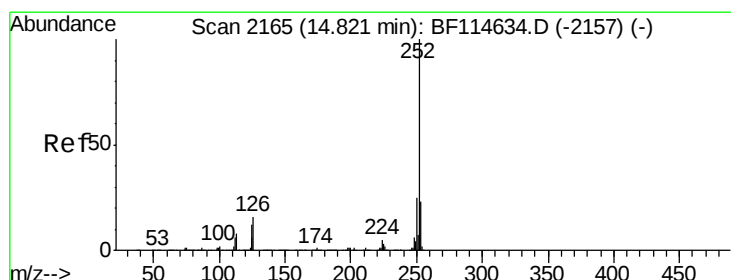
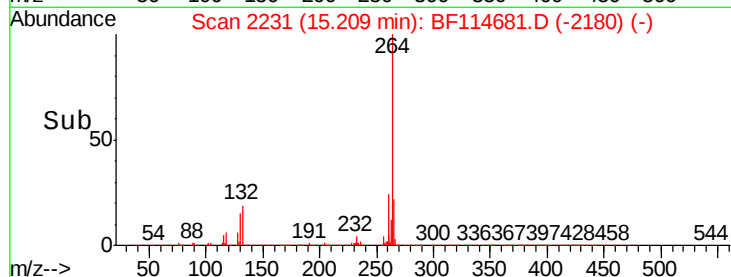
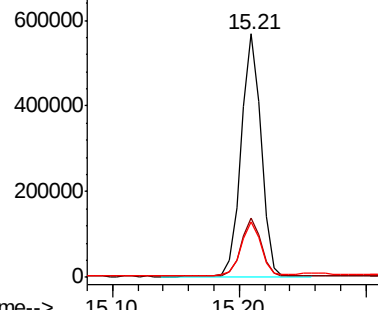


Abundance

Ion 264.00 (263.70 to 264.70): E

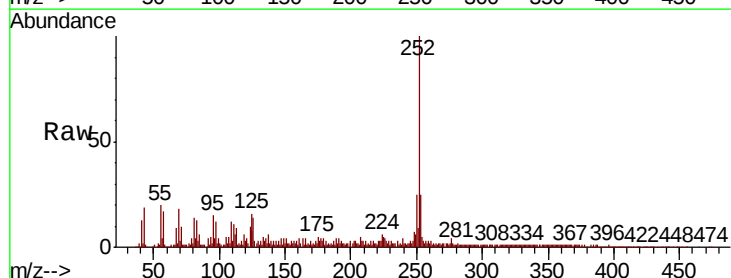
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88
Benzo(b)fluoranthene
Concen: 7.831 ng m
RT: 14.82 min Scan# 2165
Delta R.T. -0.00 min
Lab File: BF114681.D
Acq: 31 May 2019 00:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.7	28.1
125	16.3	9.4	14.2#

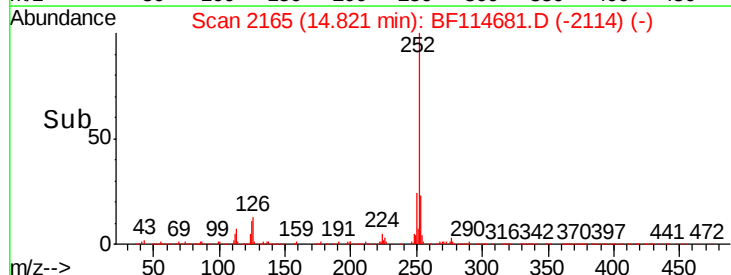
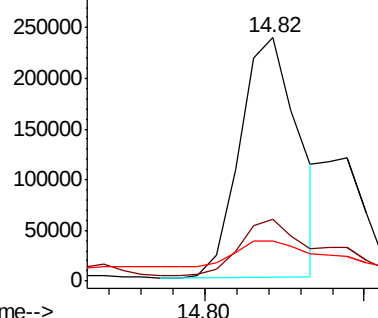


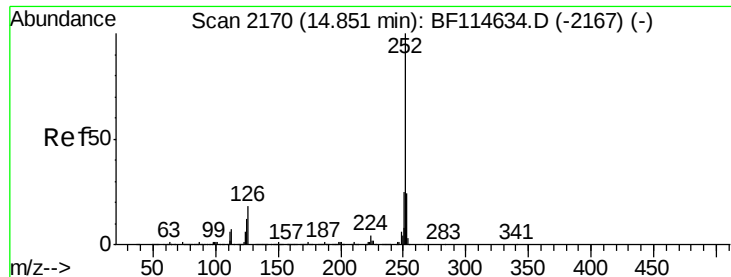
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 3.352 ng/mL

RT: 14.84 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BF114681.D

Acq: 31 May 2019 00:46

Instrument :

BNA_F

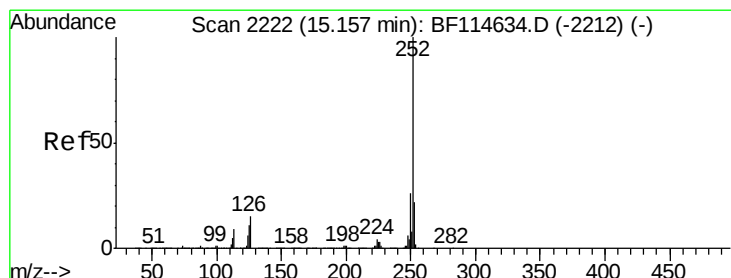
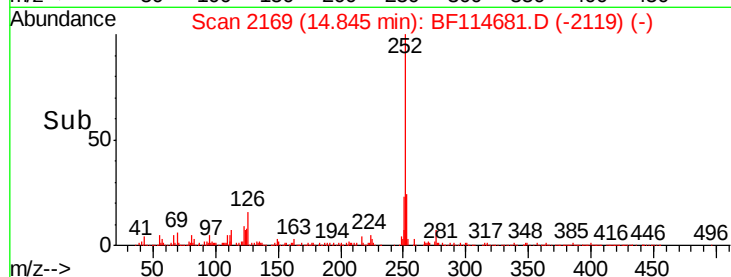
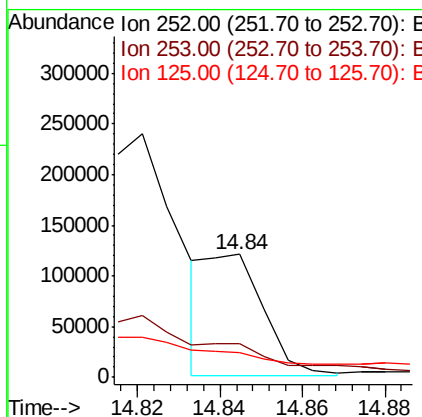
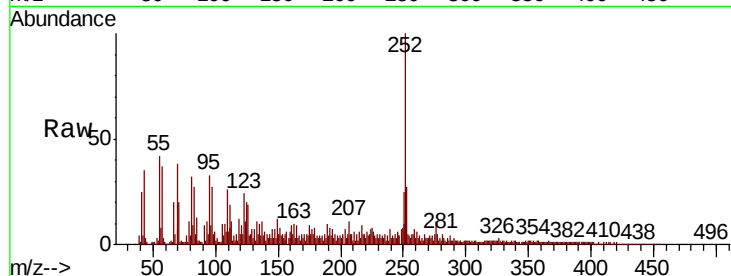
ClientSampleId :

COMP-Z1-20190418

Tot Ion:	252	Resp:	113328
Ion Ratio	Lower	Upper	
252	100		
253	27.4	18.9	28.3
125	19.9	9.5	14.3#

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:49 AM



#90

Benzo(a)pyrene

Concen: 6.167 ng/mL

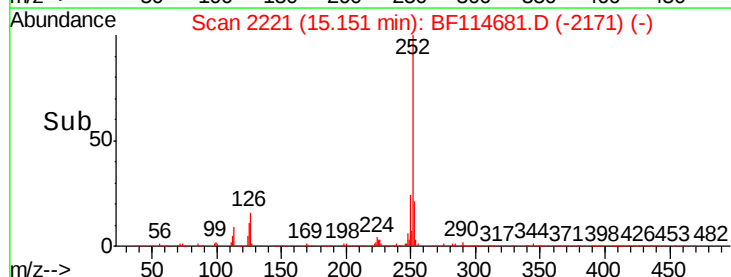
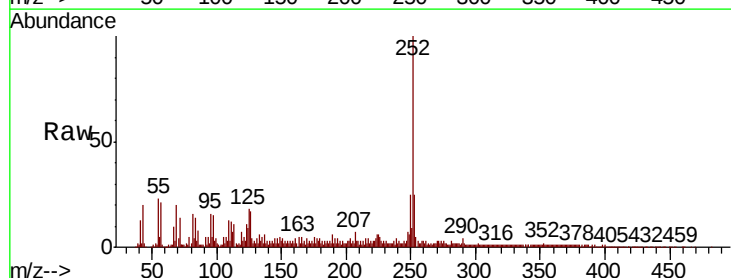
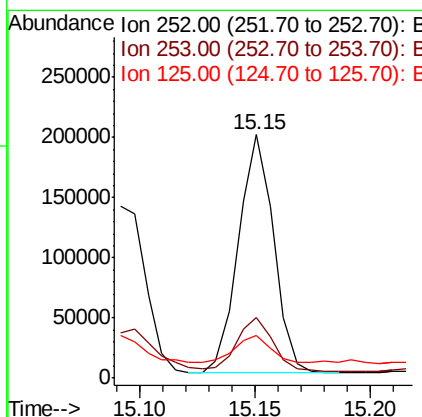
RT: 15.15 min Scan# 2221

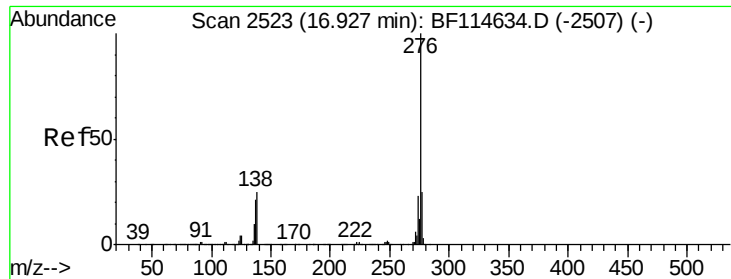
Delta R.T. -0.01 min

Lab File: BF114681.D

Acq: 31 May 2019 00:46

Tgt Ion:	252	Resp:	210749
Ion Ratio	Lower	Upper	
252	100		
253	24.8	18.0	27.0
125	17.5	9.2	13.8#





#92
 Benzo(a,h,i)perylene
 Concen: 4.099 ng
 RT: 16.93 min Scan# 2523
 Delta R.T. -0.00 min
 Lab File: BF114681.D
 Acq: 31 May 2019 00:46

Instrument :
 BNA_F
 ClientSampleId :
 COMP-Z1-20190418

Tot Ion:	276	Resp:	120117
Ion Ratio		Lower	Upper
276	100		
277	24.5	19.7	29.5
138	25.9	19.8	29.8

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:47:49 AM

