

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
 Data File : BF111170.D
 Acq On : 7 Dec 2018 6:49
 Operator : JU/SJ
 Sample : J6168-08
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S2

Manual Integrations
 APPROVED

mohammad
 12/10/2018 12:19:39 PM

Quant Time: Dec 07 08:11:52 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 05 17:30:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	433443	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	1572821	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	600594	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	951147	20.00	ng	0.00
76) Chrysene-d12	13.96	240	691985	20.00	ng	0.01
87) Perylene-d12	15.40	264	512268	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	2635468	94.88	ng	0.01
7) Phenol-d6	6.44	99	3336256	93.24	ng	0.00
23) Nitrobenzene-d5	7.37	82	2012258	75.74	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	474051	99.30	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	2363877	70.38	ng	0.00
79) Terphenyl-d14	12.92	244	1748413	51.75	ng	0.01

Target Compounds

						Qvalue
10) Phenol	6.45	94	271484	6.959	ng	92
50) Dimethylphthalate	9.56	163	467543	11.185	ng	97
52) Acenaphthene	9.87	154	180497	5.116	ng	96
55) Dibenzofuran	10.05	168	111476	2.294	ng	97
58) Fluorene	10.39	166	190093	5.547	ng	96
71) Phenanthrene	11.35	178	2518338	55.044	ng	97
72) Anthracene	11.40	178	659367	14.297	ng	95
73) Carbazole	11.55	167	276989	5.772	ng	94
75) Fluoranthene	12.55	202	3471905	77.551	ng	97
78) Pyrene	12.77	202	3248599	60.259	ng	99
81) Benzo(a)anthracene	13.96	228	1481765	36.548	ng	100
83) Chrysene	13.99	228	1322836	32.866	ng	96
86) Indeno(1,2,3-cd)pyrene	16.82	276	530136	16.405	ng	# 93
88) Benzo(b)fluoranthene	14.99	252	1220768m	42.056	ng	
89) Benzo(k)fluoranthene	15.02	252	454002m	16.179	ng	
90) Benzo(a)pyrene	15.34	252	876038	32.903	ng	97
91) Dibenzo(a,h)anthracene	16.83	278	134623	6.025	ng	95
92) Benzo(g,h,i)perylene	17.24	276	499539	22.248	ng	95

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

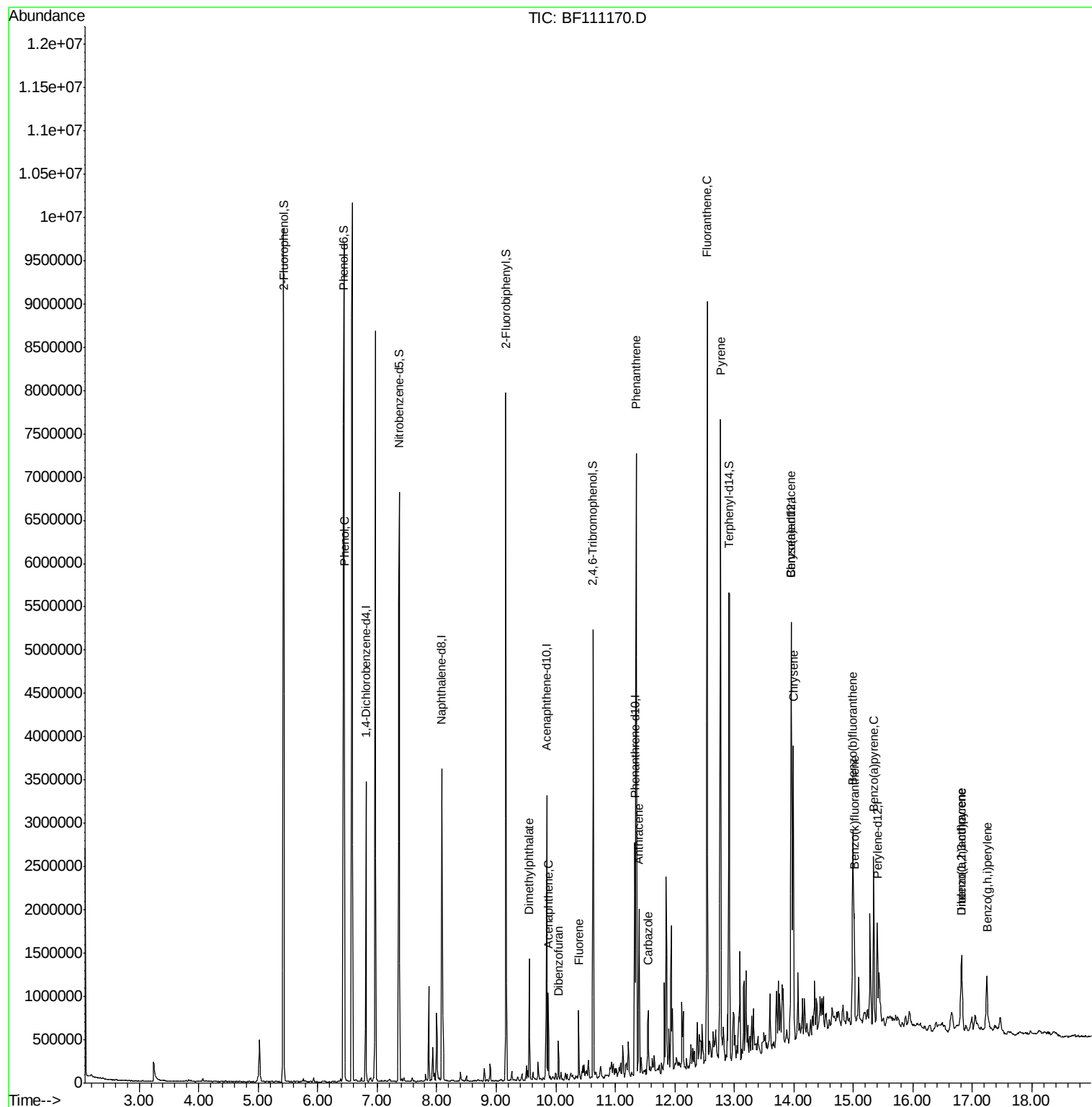
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
Data File : BF111170.D
Acq On : 7 Dec 2018 6:49
Operator : JU/SJ
Sample : J6168-08
Misc :
ALS Vial : 29 Sample Multiplier: 1

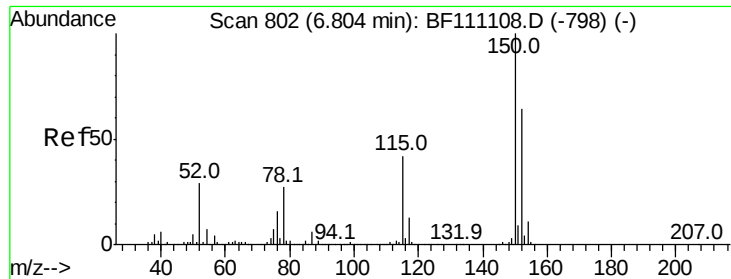
Instrument :
BNA_F
ClientSampleId :
S2

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM

Quant Time: Dec 07 08:11:52 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 05 17:30:55 2018
Response via : Initial Calibration





#1

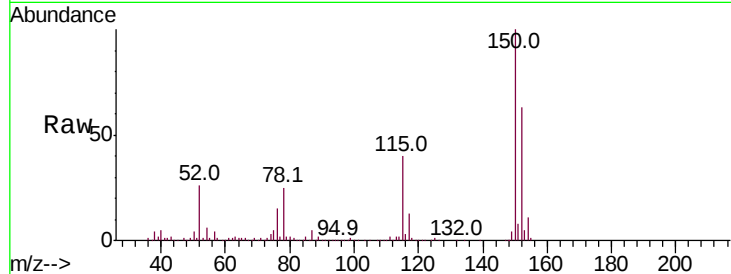
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampled :
S2

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	124.6	187.0
115	63.1	52.2	78.2

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM

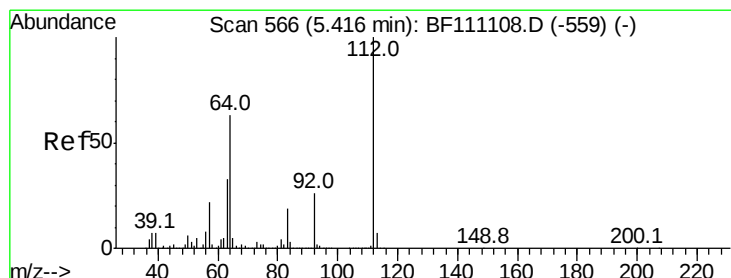
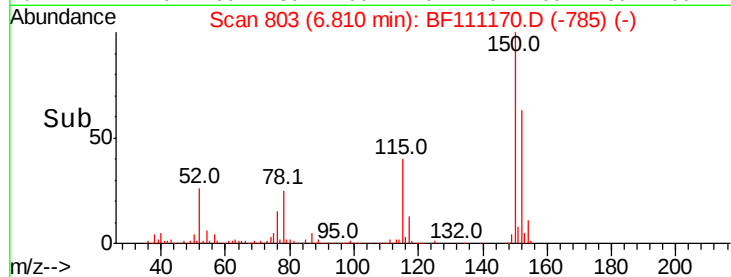
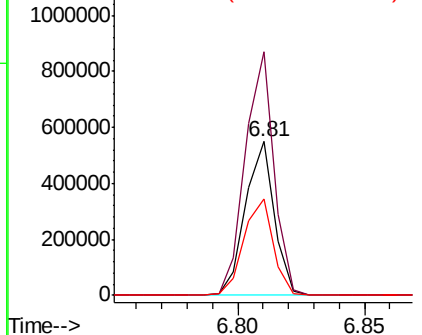


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 94.881 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

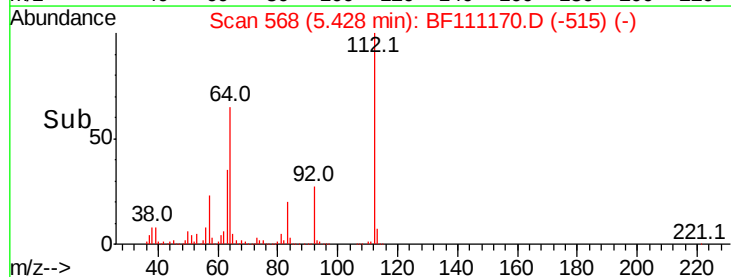
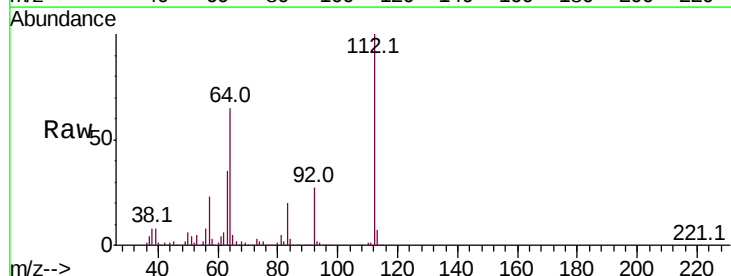
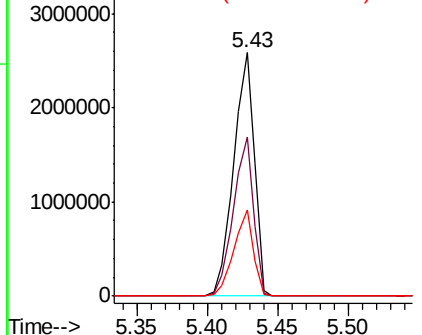
Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.4	50.2	75.4
63	35.2	26.6	39.8

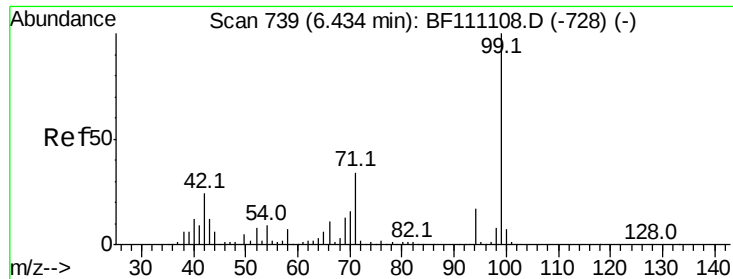
Abundance

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: 93.240 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

Instrument :

BNA_F

ClientSampled :

S2

Tot Ion: 99 Resp: 3336256

Ion Ratio Lower Upper

99 100

42 24.7 19.3 28.9

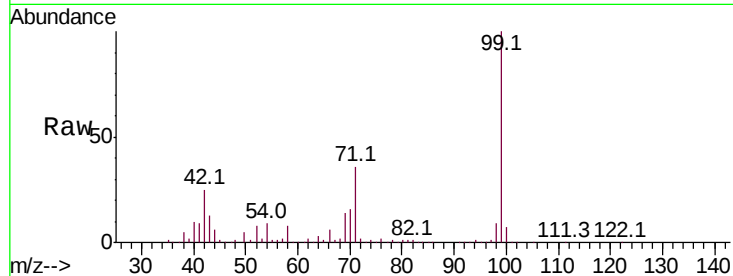
71 35.8 27.4 41.2

Manual Integrations

APPROVED

mohammad

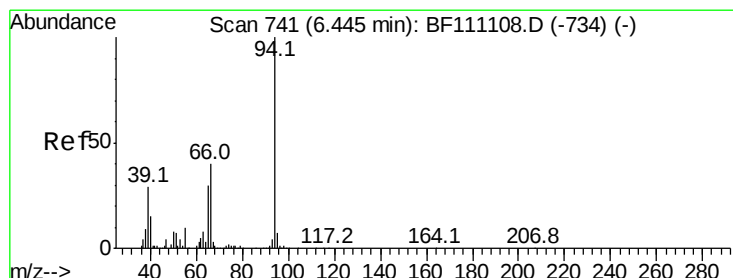
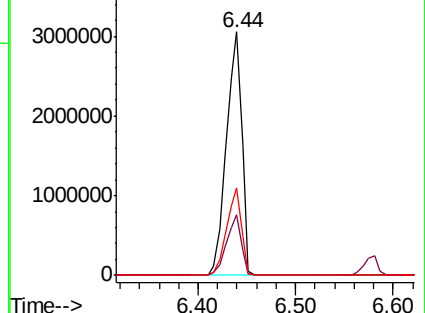
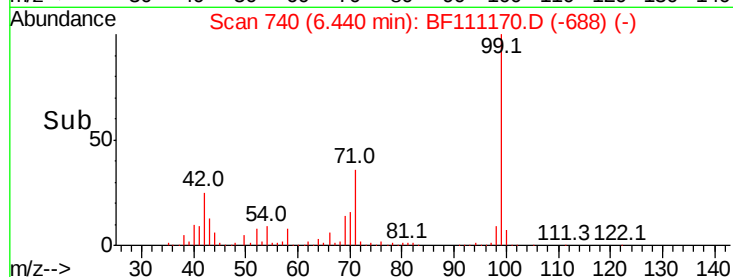
12/10/2018 12:19:39 PM



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



#10

Phenol

Concen: 6.959 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.01 min

Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

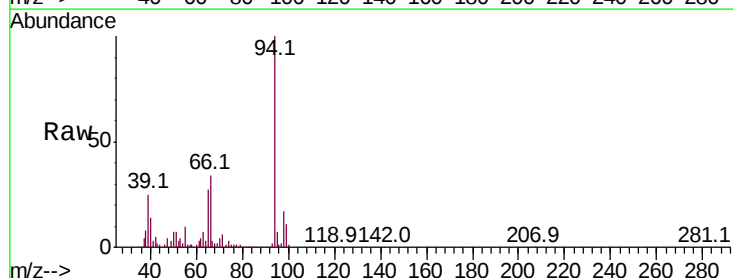
Tgt Ion: 94 Resp: 271484

Ion Ratio Lower Upper

94 100

65 27.1 10.5 50.5

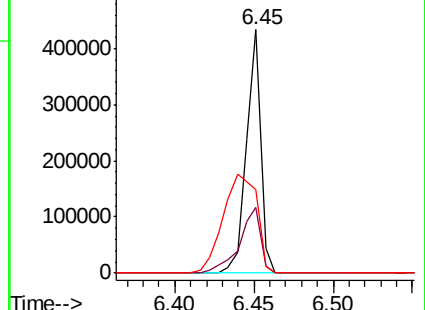
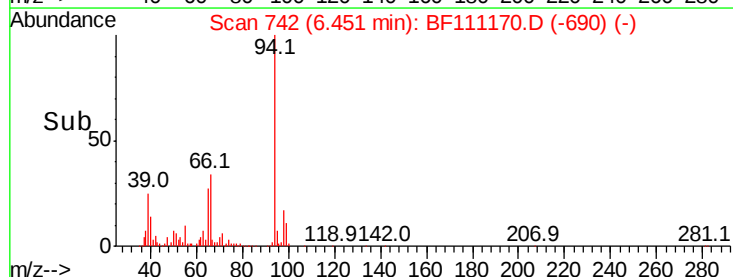
66 34.1 19.8 59.8

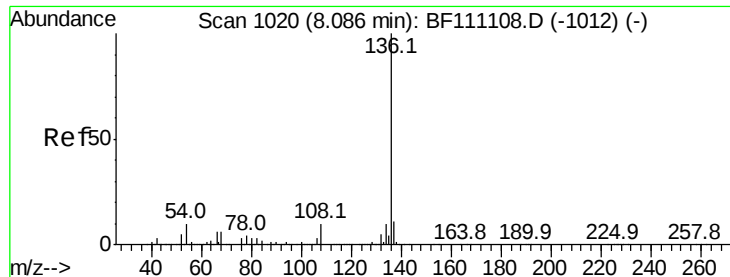


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





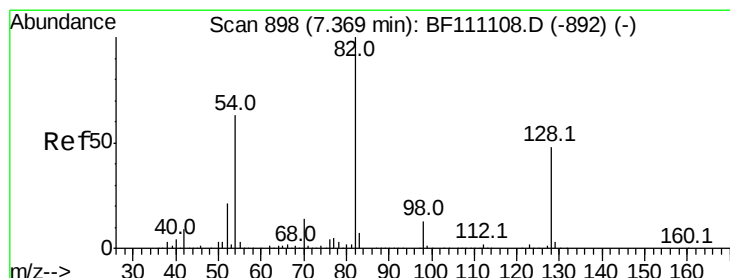
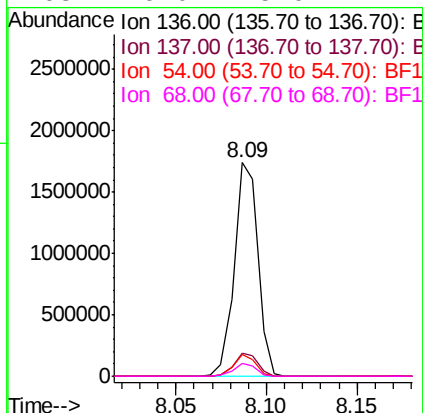
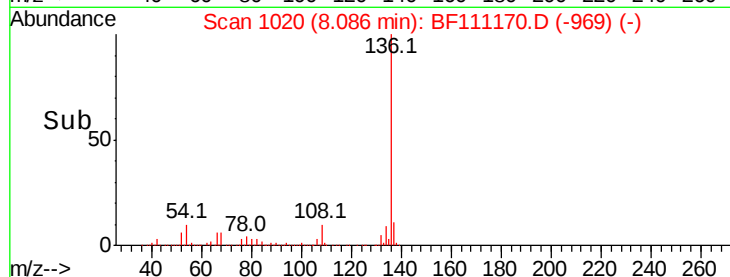
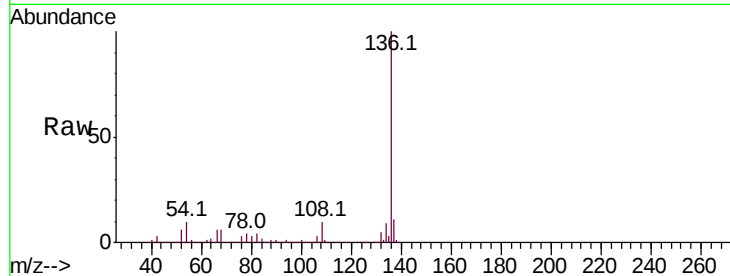
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. 0.00 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampled :
S2

Tot Ion	136	137	54	68
Ratio	100	11.0	10.3	6.0
Lower		9.0	8.4	5.0
Upper		13.6	12.6	7.4

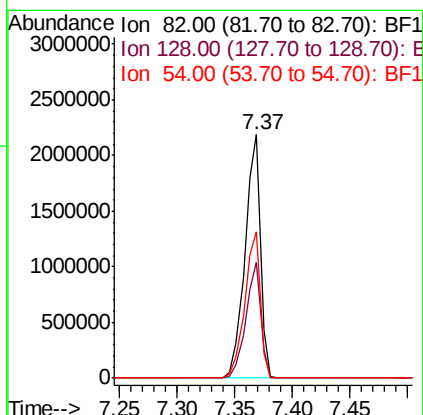
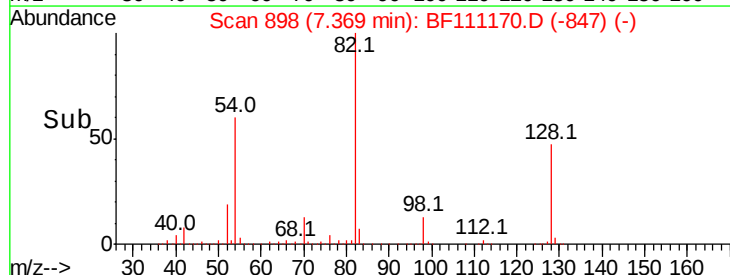
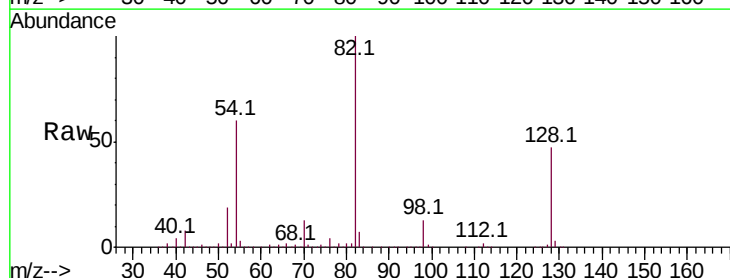
Manual Integrations
APPROVED

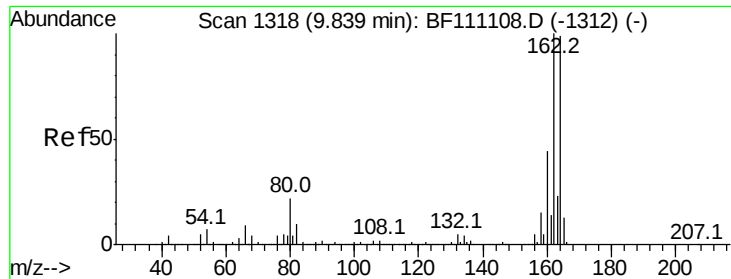
mohammad
12/10/2018 12:19:39 PM



#23
Nitrobenzene-d5
Concen: 75.745 ng
RT: 7.37 min Scan# 898
Delta R.T. 0.00 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt Ion	82	128	54
Ratio	100	47.5	60.1
Lower		38.1	50.3
Upper		57.1	75.5





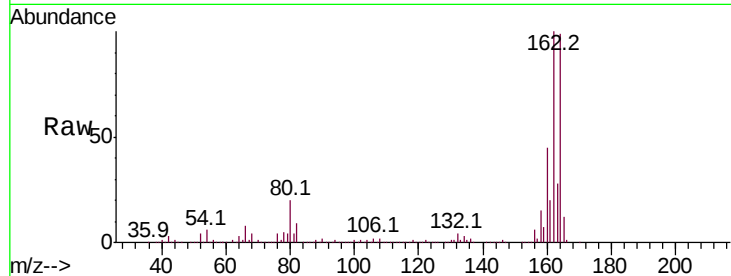
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampled :
S2

Tot Ion	Ratio	Resp	Lower	Upper
164	100	600594		
162	101.2		80.6	120.8
160	45.2		35.5	53.3

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM

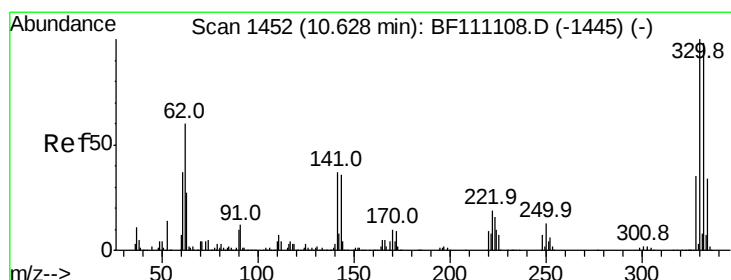
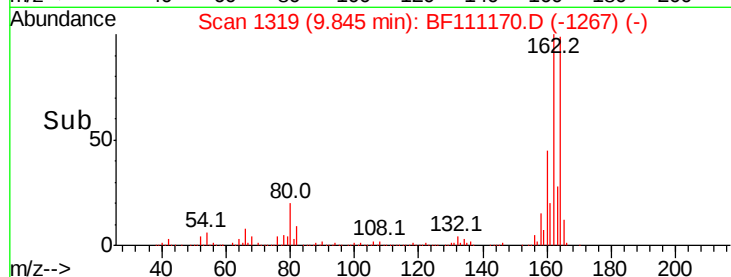
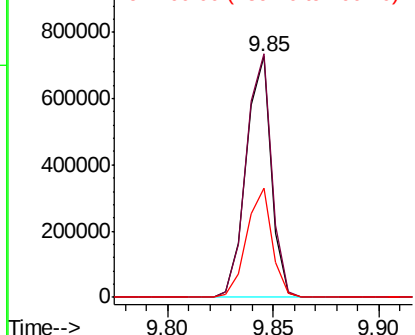


Abundance

Ion 164.00 (163.70 to 164.70): E

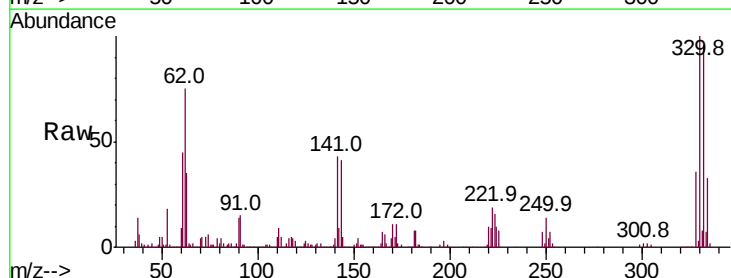
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 99.298 ng
RT: 10.63 min Scan# 1452
Delta R.T. 0.00 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	474051		
332	95.6		77.2	115.8
141	41.9		36.1	54.1

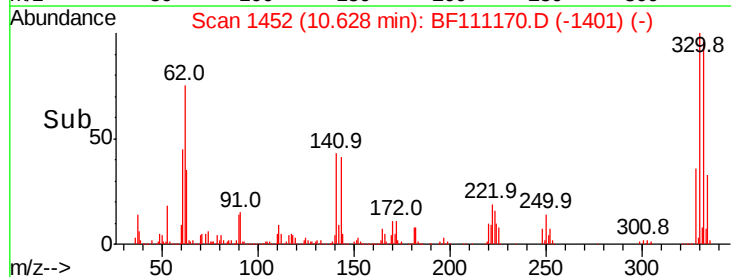
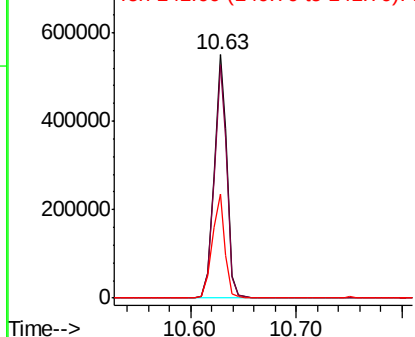


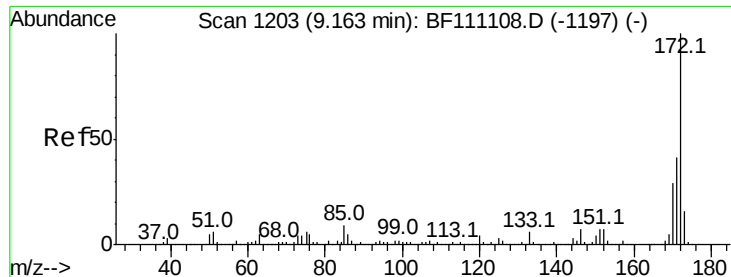
Abundance

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





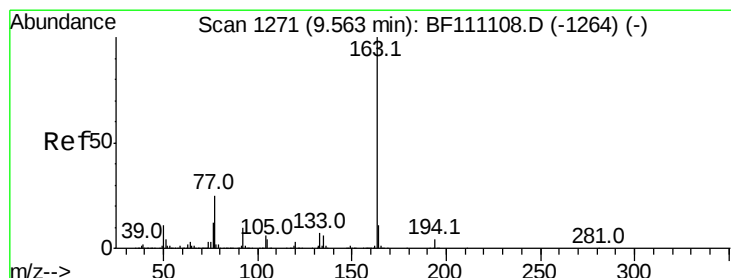
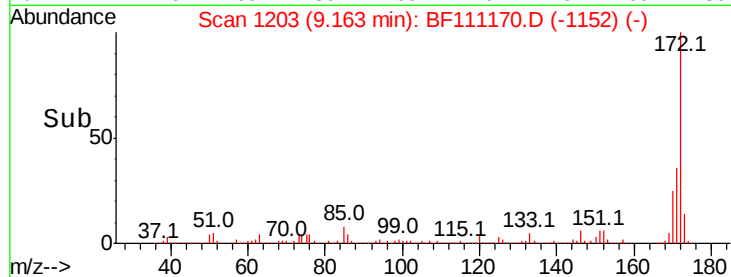
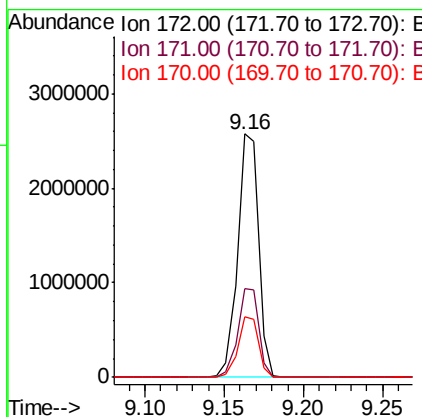
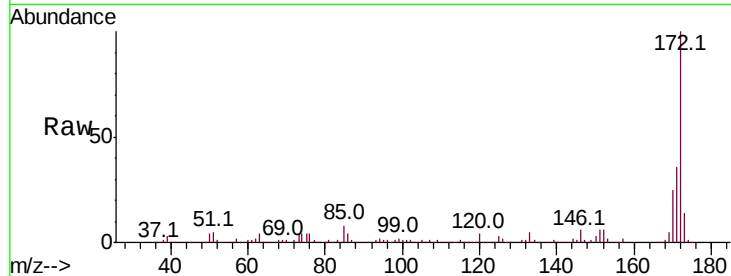
#45
2-Fluorobiphenyl
Concen: 70.384 ng
RT: 9.16 min Scan# 1203
Delta R.T. 0.00 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampleId :
S2

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	33.2	49.8
170	24.7	22.9	34.3

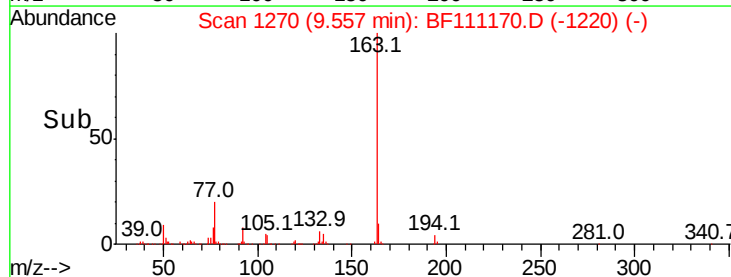
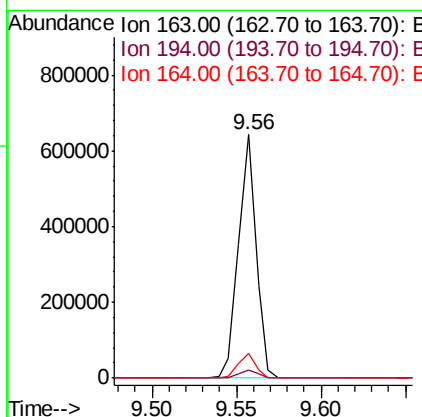
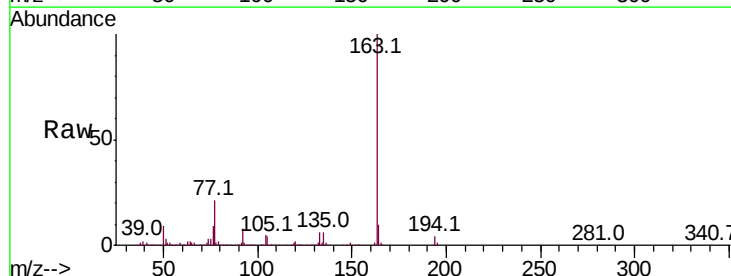
Manual Integrations
APPROVED

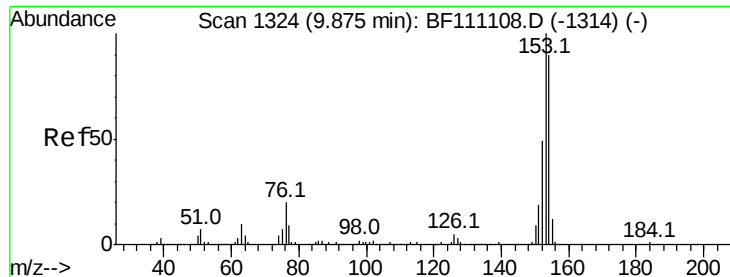
mohammad
12/10/2018 12:19:39 PM



#50
Dimethylphthalate
Concen: 11.185 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.0	4.4
164	9.9	8.9	13.3





#52

Acenaphthene

Concen: 5.116 ng

RT: 9.87 min Scan# 1324

Delta R.T. 0.00 min

Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

Instrument :

BNA_F

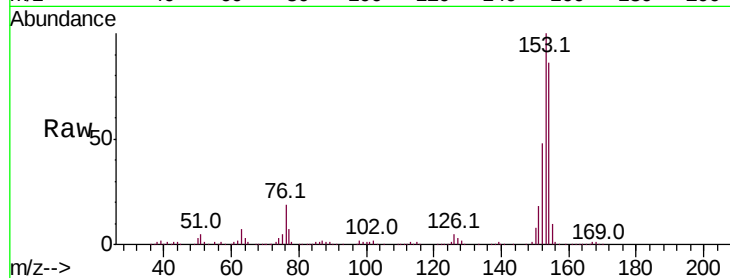
ClientSampleId :

S2

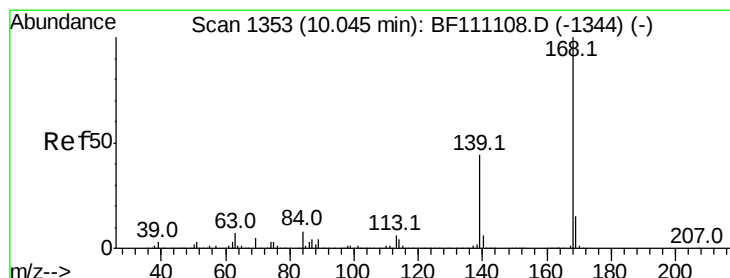
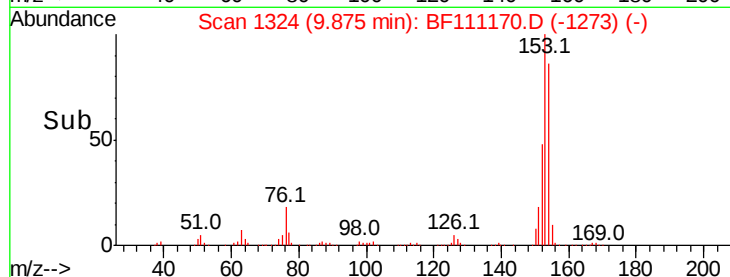
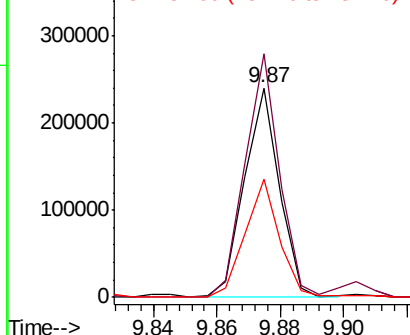
Tot Ion:	154	Resp:	180497
Ion Ratio	Lower	Upper	
154	100		
153	116.5	88.7	133.1
152	56.2	43.8	65.8

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM



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: 2.294 ng

RT: 10.05 min Scan# 1353

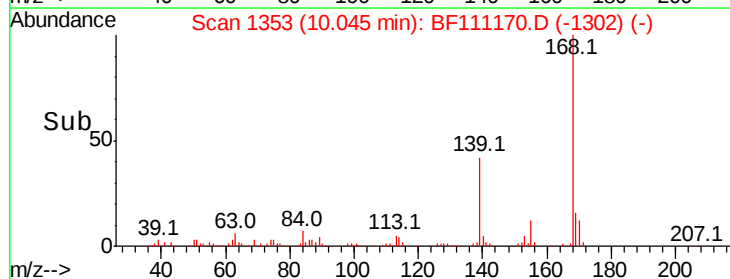
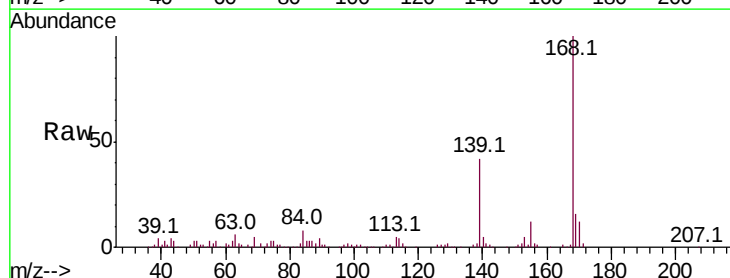
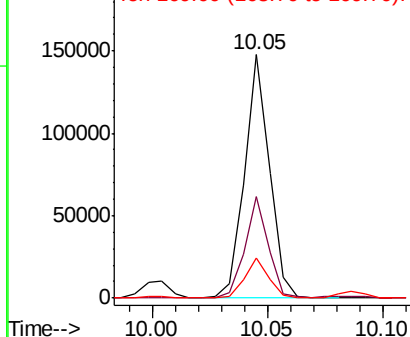
Delta R.T. 0.00 min

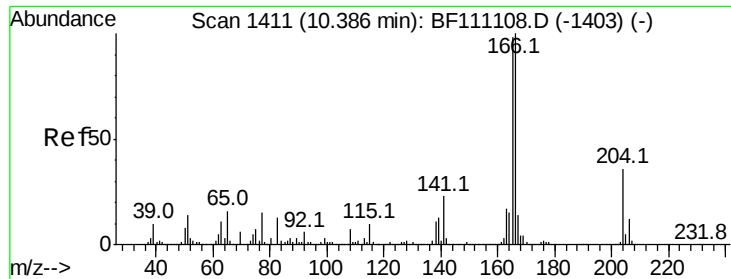
Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

Tgt Ion:	168	Resp:	111476
Ion Ratio	Lower	Upper	
168	100		
139	41.5	35.1	52.7
169	16.3	12.2	18.4

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





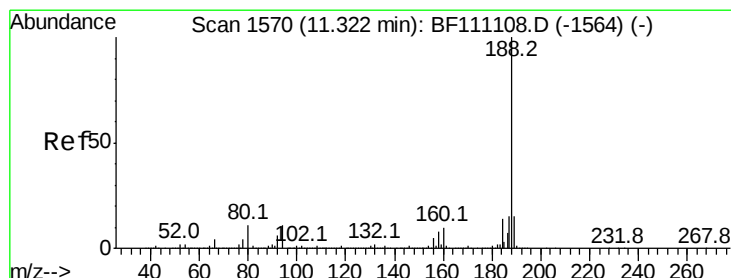
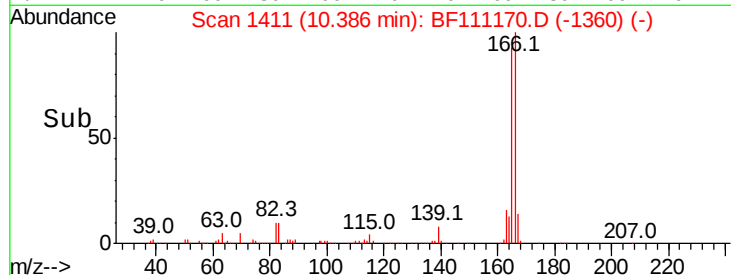
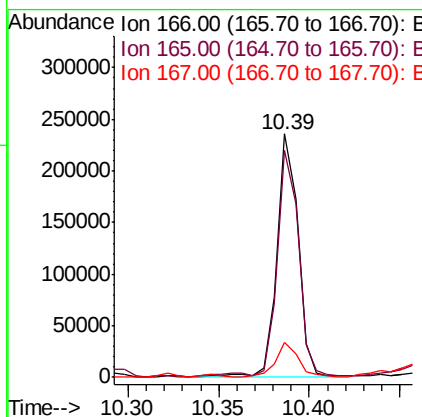
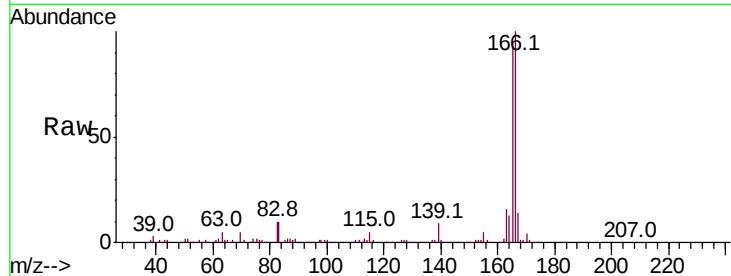
#58
 Fluorene
 Concen: 5.547 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. 0.00 min
 Lab File: BF111170.D
 Acq: 7 Dec 2018 6:49

Instrument :
 BNA_F
 ClientSampleId :
 S2

Tot Ion	Ratio	Lower	Upper
166	100		
165	93.3	78.4	117.6
167	14.4	11.4	17.2

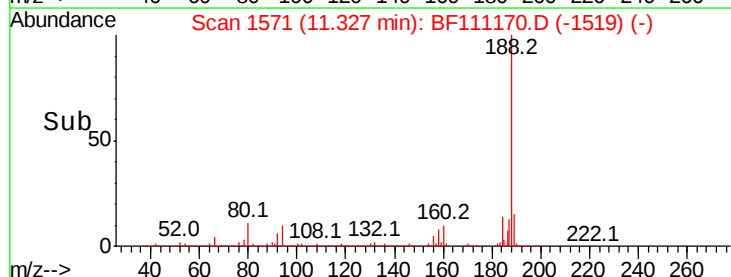
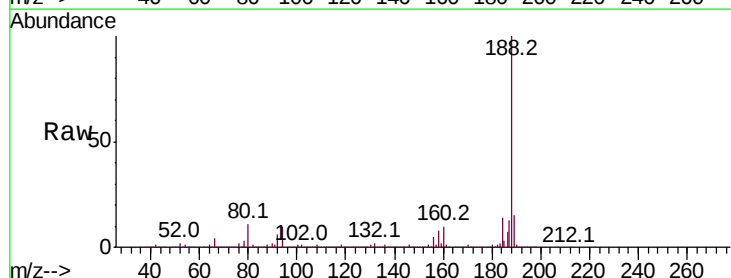
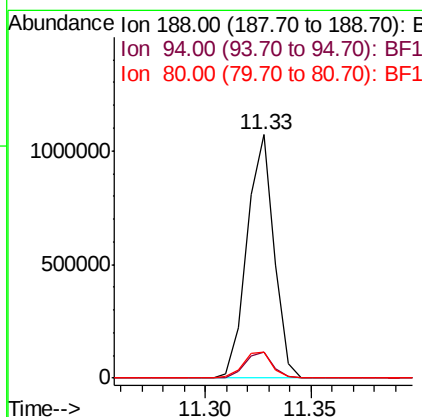
Manual Integrations
 APPROVED

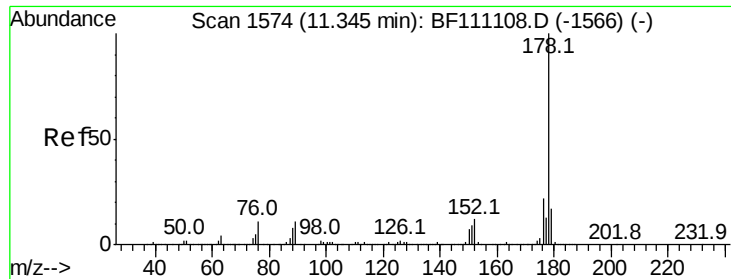
mohammad
 12/10/2018 12:19:39 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. 0.01 min
 Lab File: BF111170.D
 Acq: 7 Dec 2018 6:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.5	12.7
80	10.7	9.0	13.6





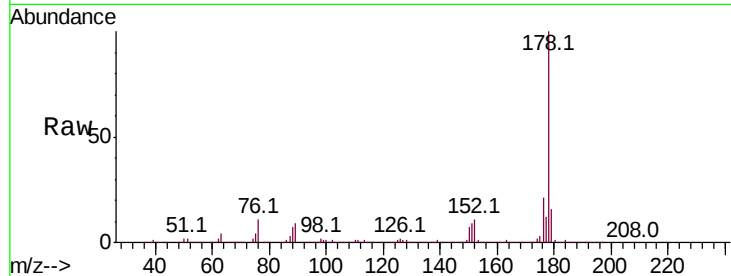
#71
Phenanthrene
Concen: 55.044 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampled :
S2

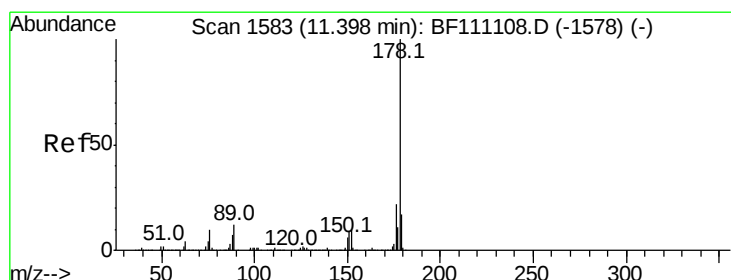
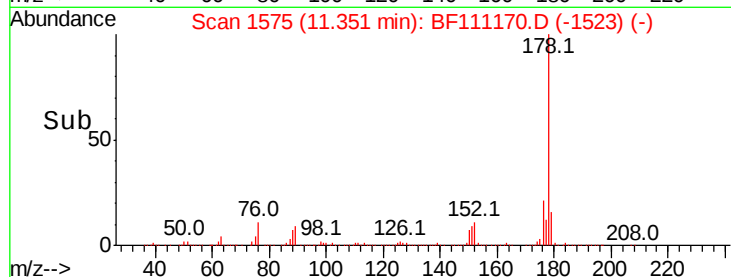
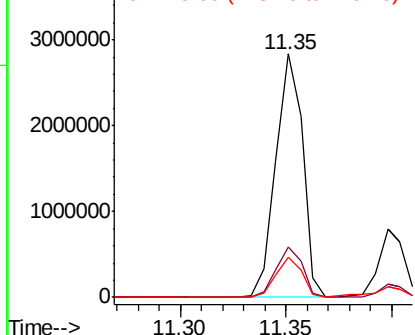
Tot Ion:178 Resp: 2518338
Ion Ratio Lower Upper
178 100
176 20.6 17.7 26.5
179 16.3 14.0 21.0

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM



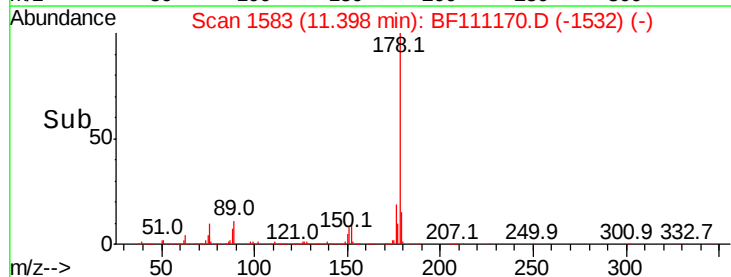
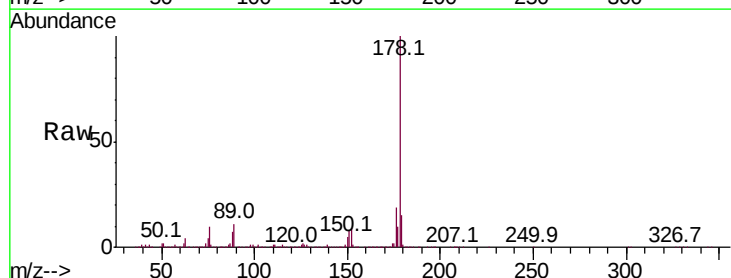
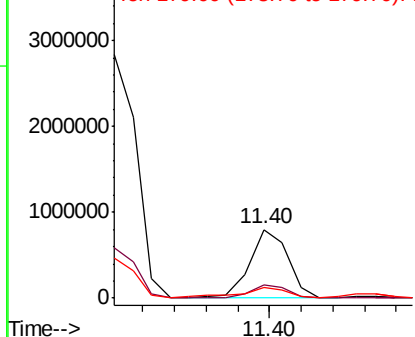
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

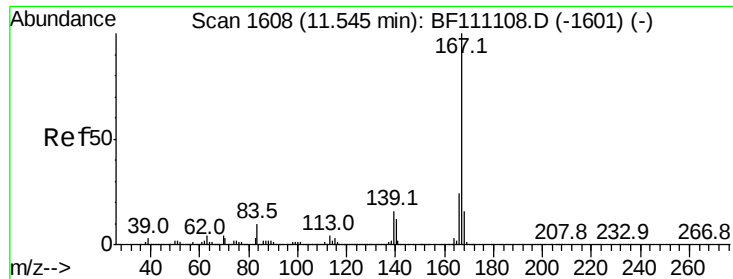


#72
Anthracene
Concen: 14.297 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.00 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt Ion:178 Resp: 659367
Ion Ratio Lower Upper
178 100
176 19.3 17.3 25.9
179 15.3 13.8 20.8

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





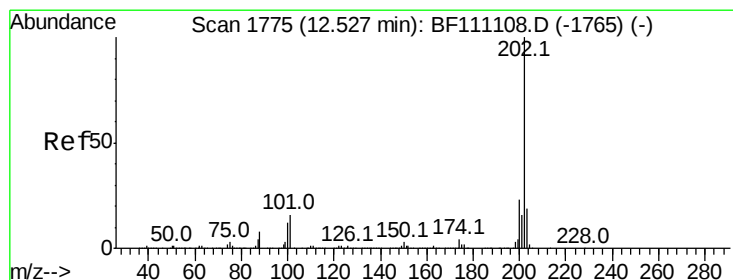
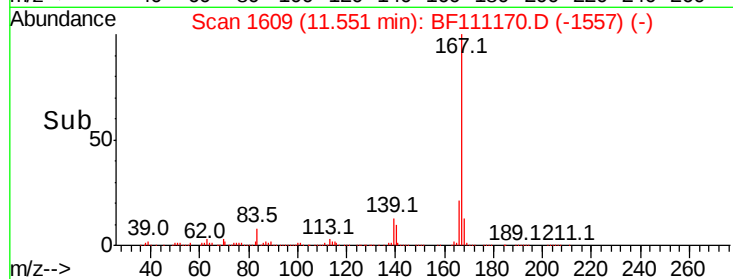
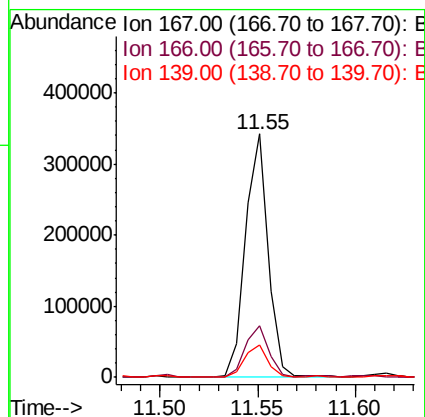
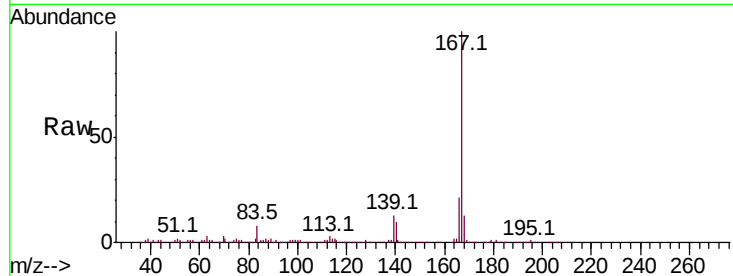
#73
 Carbazole
 Concen: 5.772 ng
 RT: 11.55 min Scan# 1609
 Delta R.T. 0.01 min
 Lab File: BF111170.D
 Acq: 7 Dec 2018 6:49

Instrument :
 BNA_F
 ClientSampleId :
 S2

Tot Ion:	167	Resp:	276989
Ion Ratio	Lower	Upper	
167	100		
166	21.0	19.4	29.0
139	13.1	12.6	18.8

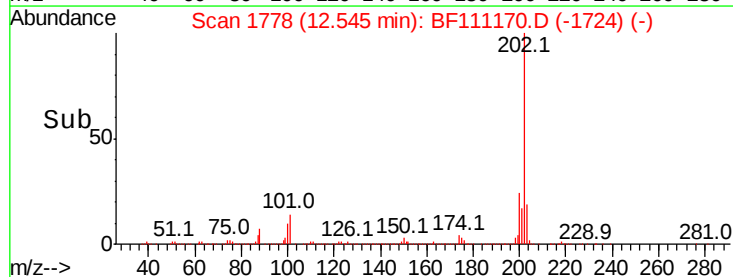
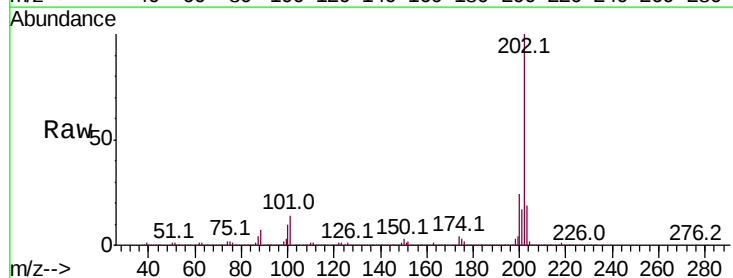
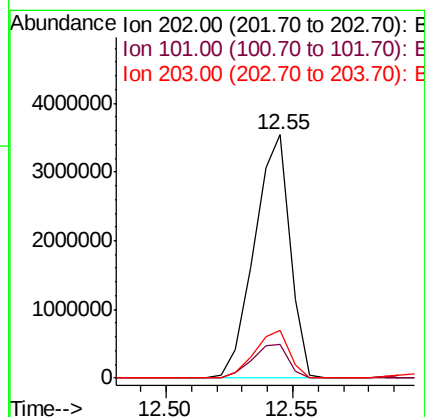
Manual Integrations
 APPROVED

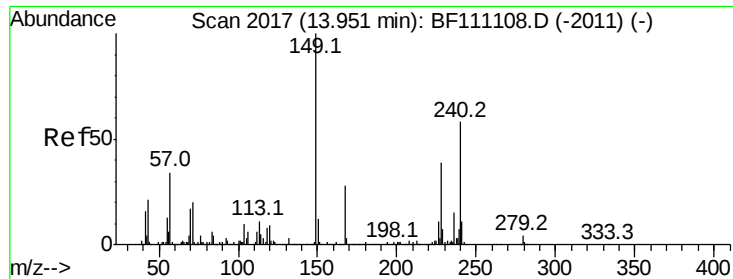
mohammad
 12/10/2018 12:19:39 PM



#75
 Fluoranthene
 Concen: 77.551 ng
 RT: 12.55 min Scan# 1778
 Delta R.T. 0.02 min
 Lab File: BF111170.D
 Acq: 7 Dec 2018 6:49

Tgt Ion:	202	Resp:	3471905
Ion Ratio	Lower	Upper	
202	100		
101	14.0	0.0	35.8
203	19.4	0.0	38.6





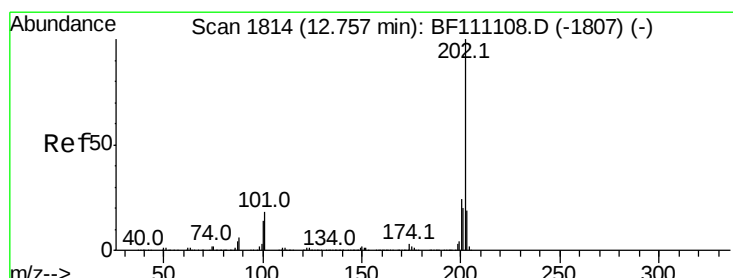
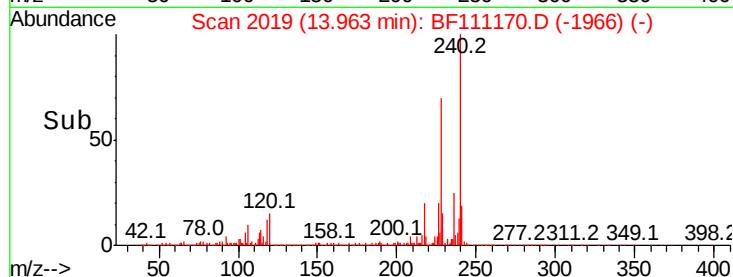
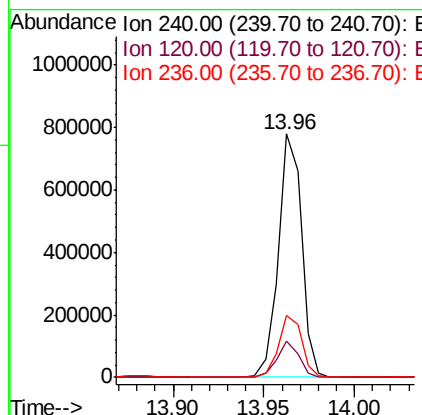
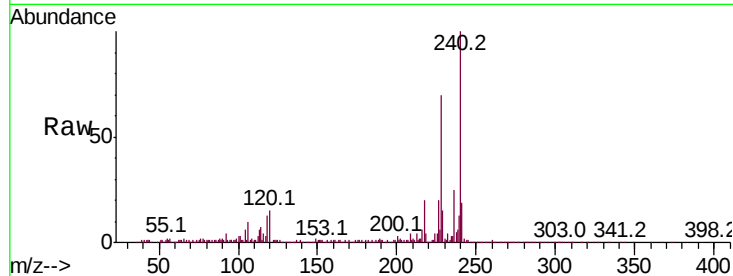
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2019
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampleId :
S2

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.0	12.8	19.2
236	25.2	21.1	31.7

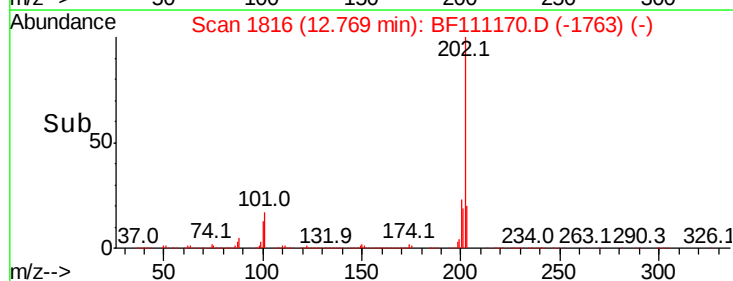
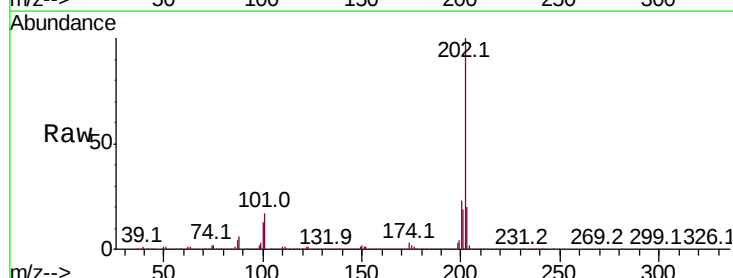
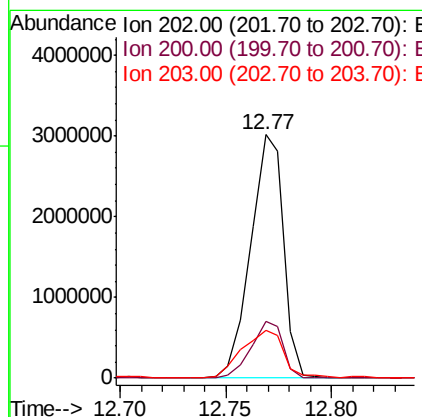
Manual Integrations
APPROVED

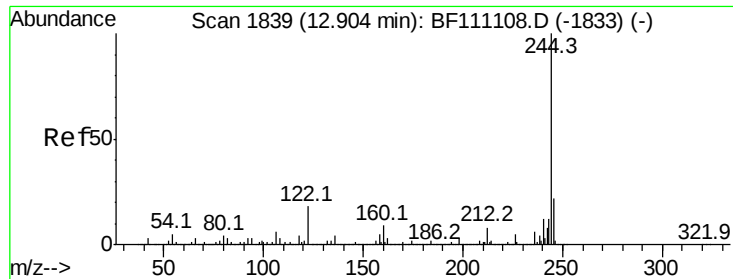
mohammad
12/10/2018 12:19:39 PM



#78
Pyrene
Concen: 60.259 ng
RT: 12.77 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.3	19.3	28.9
203	19.6	15.4	23.2





#79

Terphenyl-d14

Concen: 51.746 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.01 min

Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

Instrument :

BNA_F

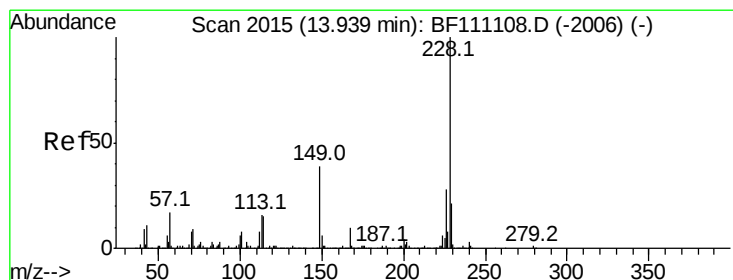
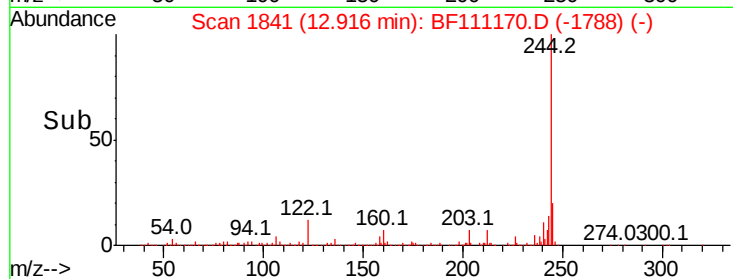
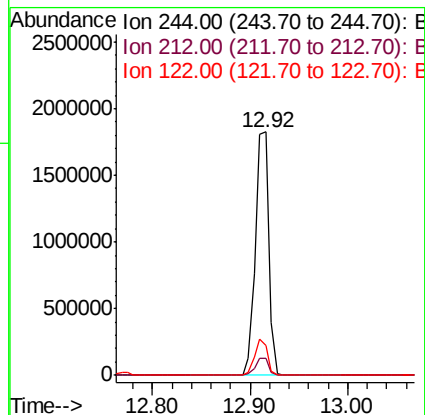
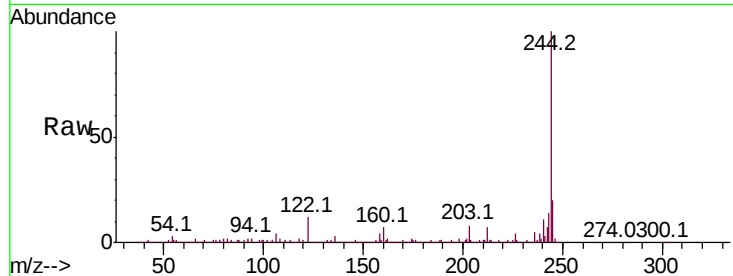
ClientSampled :

S2

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.6	9.8
122	12.1	14.2	21.2

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM



#81

Benzo(a)anthracene

Concen: 36.548 ng

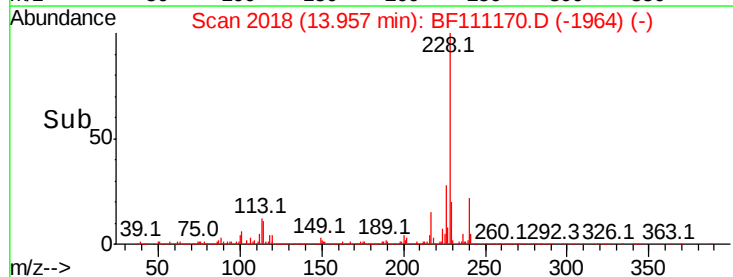
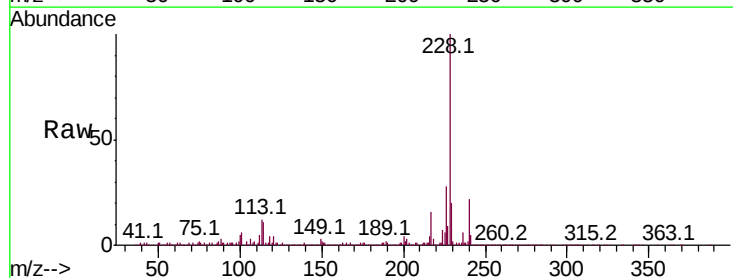
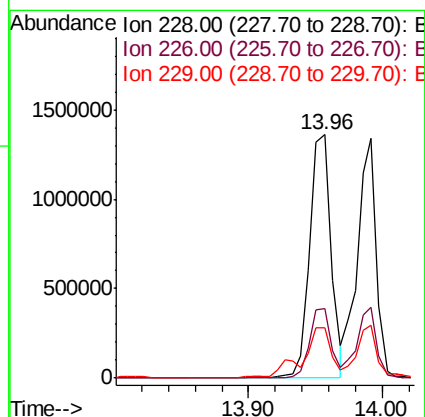
RT: 13.96 min Scan# 2018

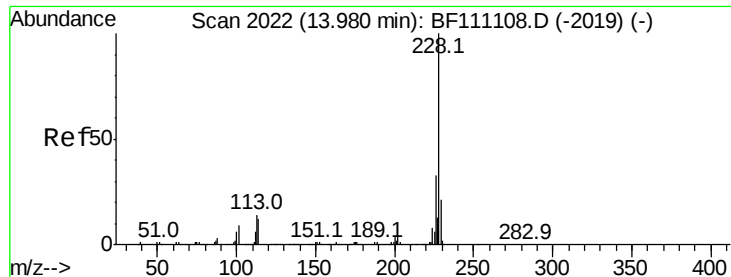
Delta R.T. 0.02 min

Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	34.0
229	20.4	16.7	25.1





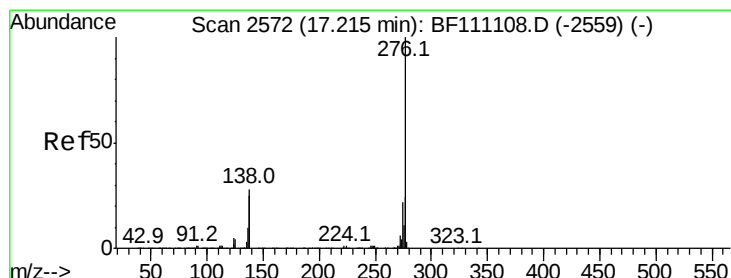
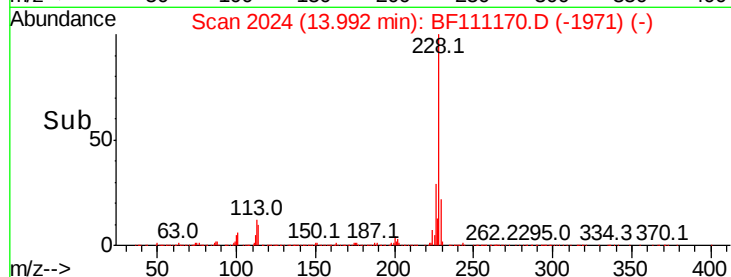
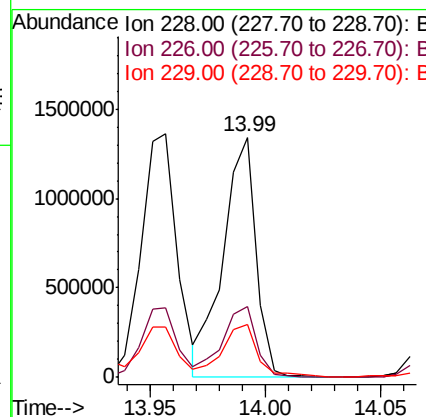
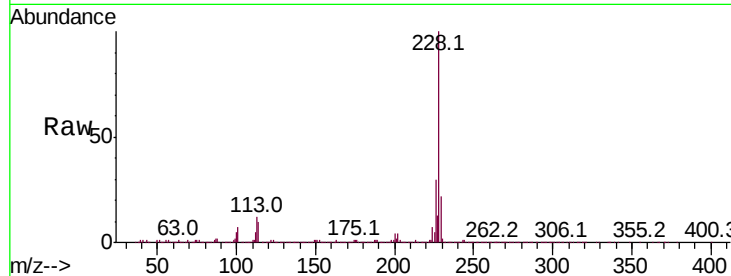
#83
Chrysene
Concen: 32.866 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampleId :
S2

Tot	Ion:228	Resp:	1322836
Ion	Ratio	Lower	Upper
228	100		
226	29.5	26.2	39.2
229	21.8	16.9	25.3

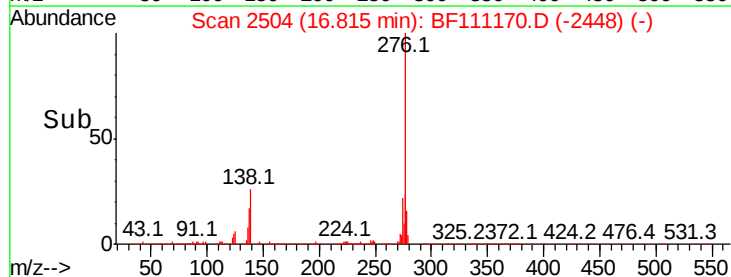
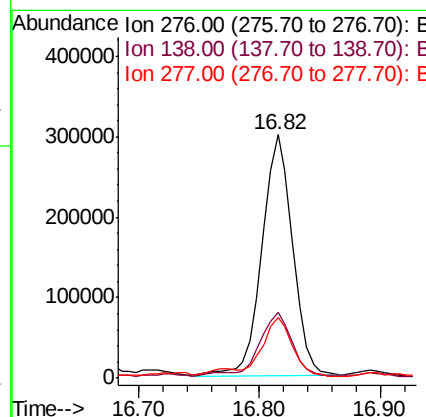
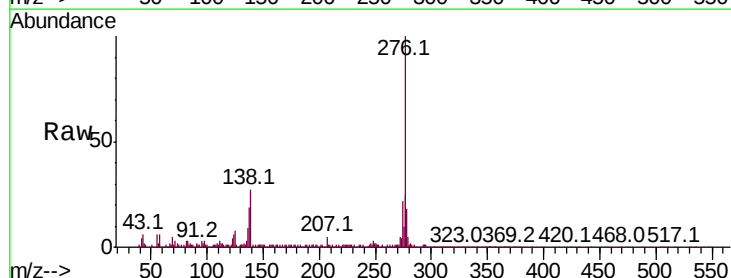
Manual Integrations
APPROVED

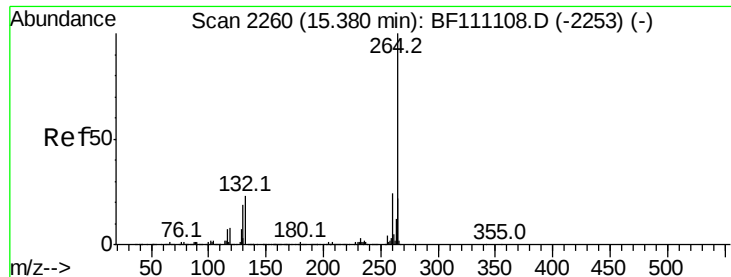
mohammad
12/10/2018 12:19:39 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 16.405 ng
RT: 16.82 min Scan# 2504
Delta R.T. 0.03 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt	Ion:276	Resp:	530136
Ion	Ratio	Lower	Upper
276	100		
138	28.4	20.2	30.4
277	23.8	15.8	23.6#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.40 min Scan# 2264

Delta R.T. 0.02 min

Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

Instrument :

BNA_F

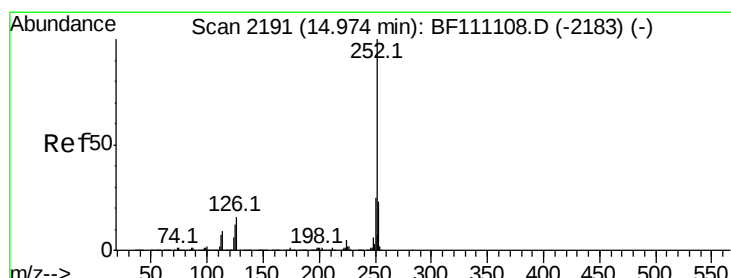
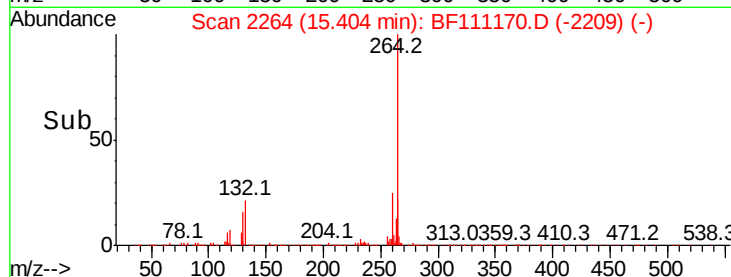
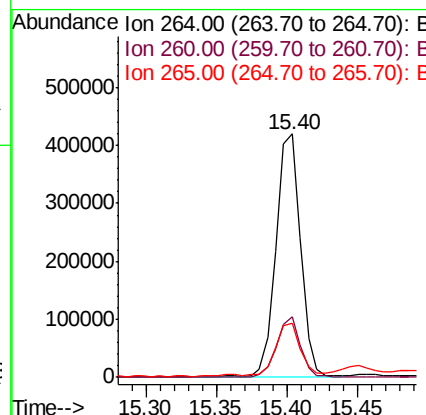
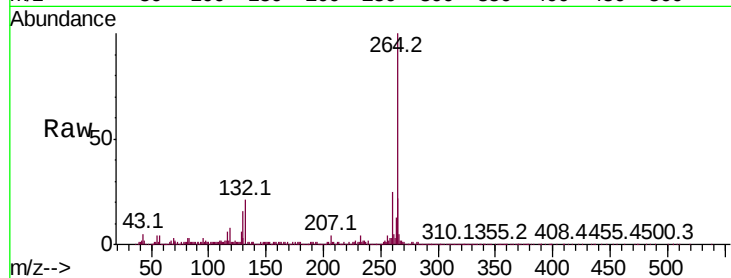
ClientSampled :

S2

Tot Ion:	264	Resp:	512268
Ion Ratio	Lower	Upper	
264	100		
260	24.9	19.4	29.0
265	22.5	17.4	26.0

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM



#88

Benzo(b)fluoranthene

Concen: 42.056 ng m

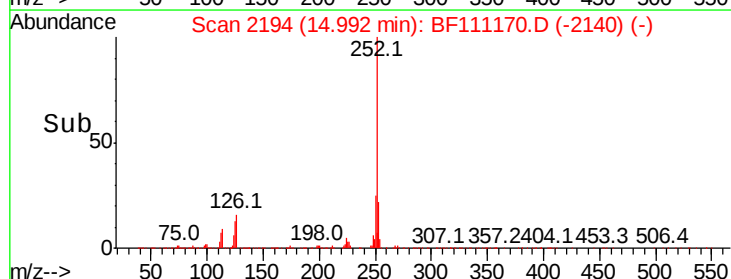
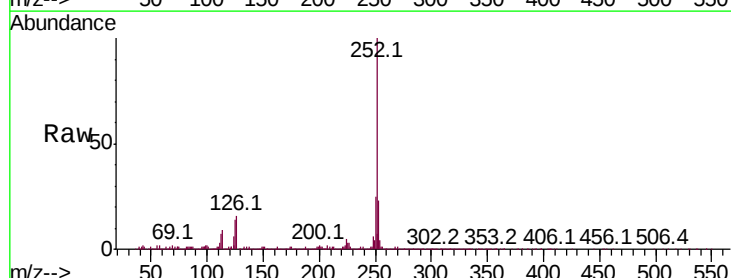
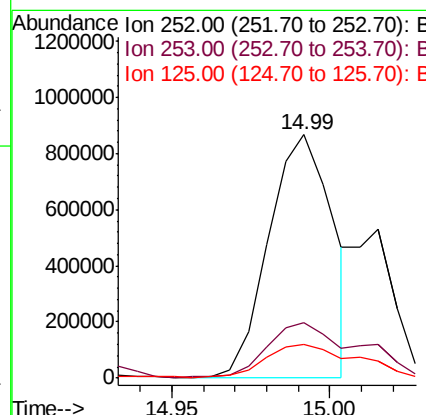
RT: 14.99 min Scan# 2194

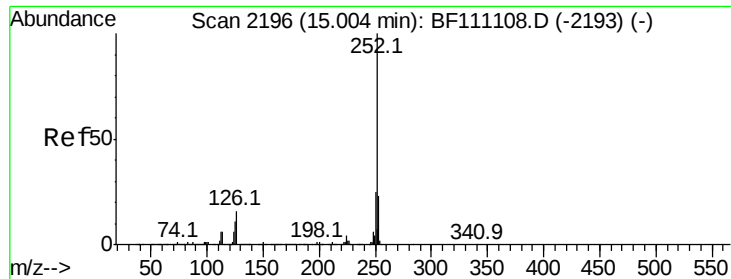
Delta R.T. 0.02 min

Lab File: BF111170.D

Acq: 7 Dec 2018 6:49

Tgt Ion:	252	Resp:	1220768
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.5	27.7
125	13.7	9.9	14.9





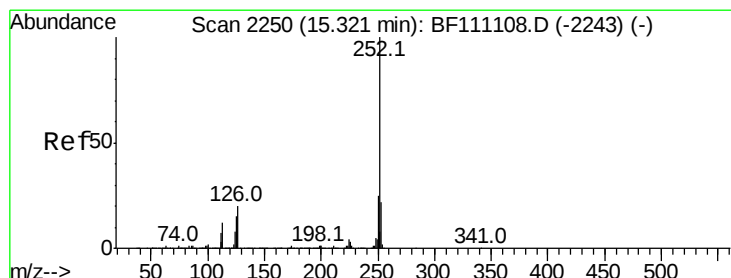
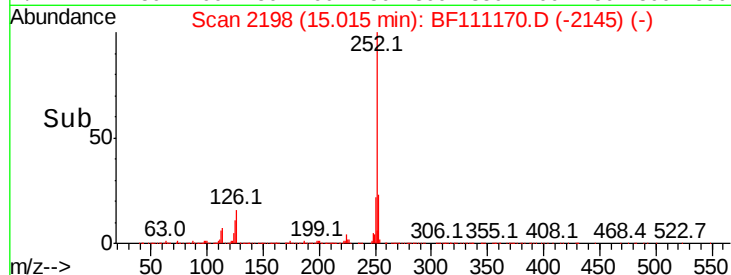
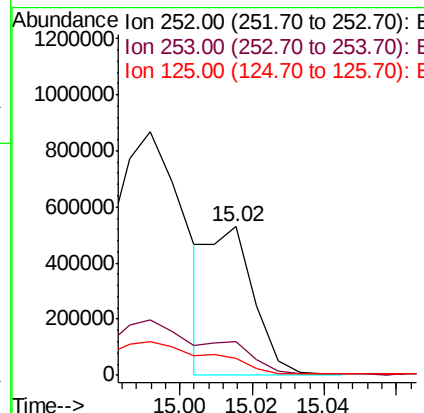
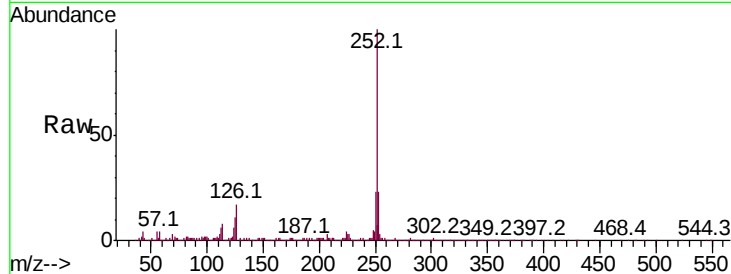
#89
Benzo(k)fluoranthene
Concen: 16.179 ng m
RT: 15.02 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampled :
S2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.4
125	11.4	9.9	14.9

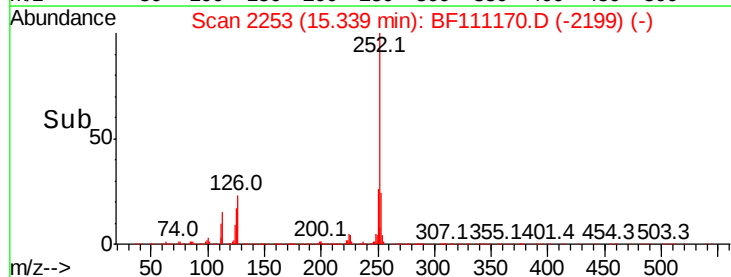
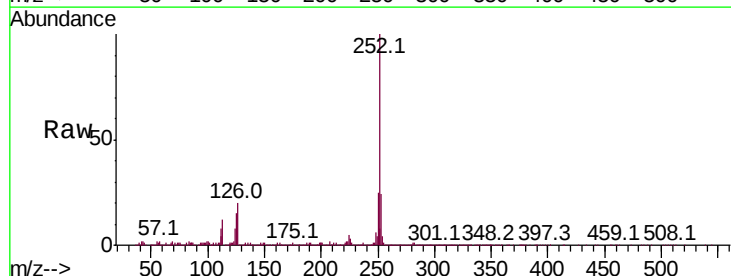
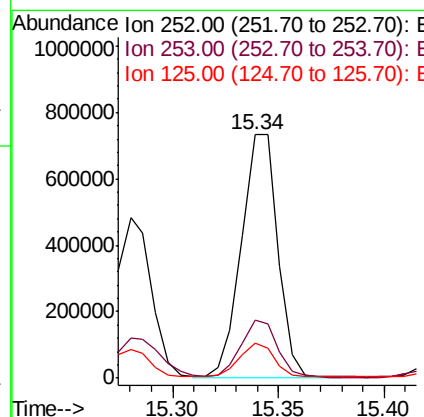
Manual Integrations
APPROVED

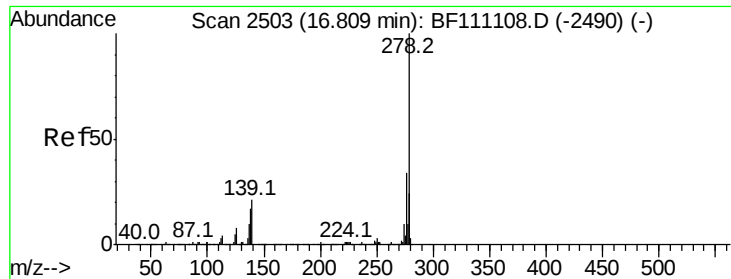
mohammad
12/10/2018 12:19:39 PM



#90
Benzo(a)pyrene
Concen: 32.903 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	14.5	12.4	18.6





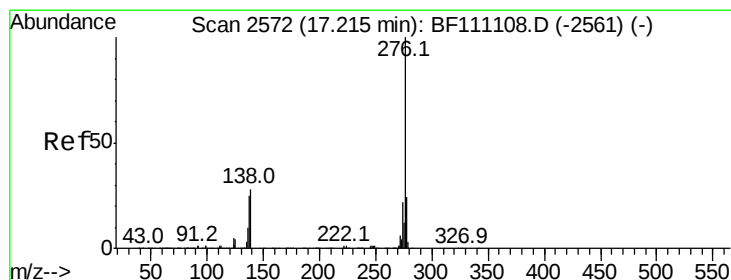
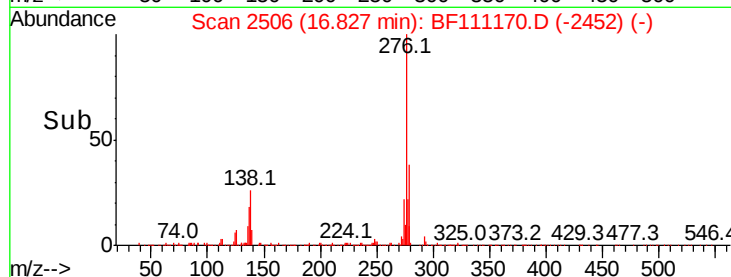
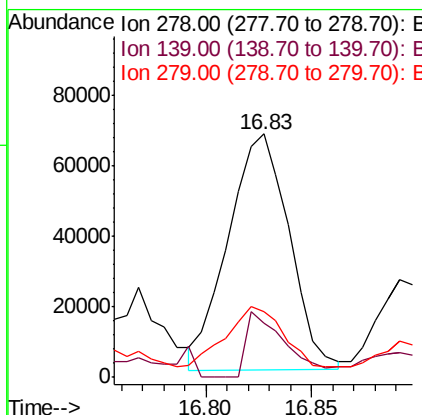
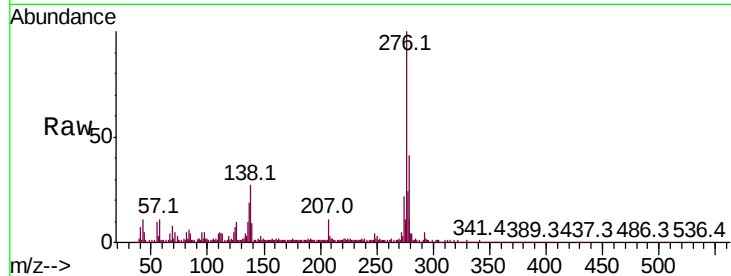
#91
Dibenzo(a,h)anthracene
Concen: 6.025 ng
RT: 16.83 min Scan# 2506
Delta R.T. 0.02 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Instrument :
BNA_F
ClientSampleId :
S2

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.1	16.6	25.0
279	27.2	18.8	28.2

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:39 PM



#92
Benzo(g,h,i)perylene
Concen: 22.248 ng
RT: 17.24 min Scan# 2576
Delta R.T. 0.02 min
Lab File: BF111170.D
Acq: 7 Dec 2018 6:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	21.8	19.3	28.9
138	25.3	22.3	33.5

