

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
 Data File : BF116012.D
 Acq On : 6 Aug 2019 14:49
 Operator : HP/JU
 Sample : K4135-16
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1S-B1-B4-COMP-(30)

Manual Integrations
 APPROVED

mohammad
 8/7/2019 4:41:55 PM

Quant Time: Aug 07 03:41:05 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	130240	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	497539	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	260865	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	456156	20.00	ng	-0.02
76) Chrysene-d12	14.00	240	299886	20.00	ng	-0.02
87) Perylene-d12	15.46	264	357070	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	935389	120.23	ng	0.00
7) Phenol-d6	6.48	99	1223868	124.68	ng	0.00
23) Nitrobenzene-d5	7.40	82	807150	93.64	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	311144	123.02	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	1312359	94.23	ng	-0.02
79) Terphenyl-d14	12.95	244	1387928	97.52	ng	-0.02

Target Compounds				Qvalue		
6) Aniline	6.49	93	278	0.020	ng	# 1
8) 2-Chlorophenol	6.63	128	246	0.029	ng	# 1
9) Benzaldehyde	6.48	77	1950	0.288	ng	# 1
10) Phenol	6.49	94	17553	1.519	ng	# 7
11) bis(2-Chloroethyl)ether	6.62	93	1429	0.168	ng	# 1
15) Benzyl Alcohol	7.00	79	13066	1.754	ng	# 48
22) Acetophenone	7.27	105	1052	0.096	ng	# 70
24) Nitrobenzene	7.40	77	2290	0.246	ng	# 32
31) Naphthalene	8.15	128	4335	0.185	ng	# 95
33) 4-Chloroaniline	8.15	127	459	0.044	ng	# 36
37) 2-Methylnaphthalene	8.84	142	3200	0.208	ng	# 98
38) 1-Methylnaphthalene	8.93	142	2846	0.195	ng	# 97
46) 1,1'-Biphenyl	9.30	154	4563	0.248	ng	# 97
47) 2-Chloronaphthalene	9.59	162	502	0.033	ng	# 1
48) 2-Nitroaniline	9.59	65	1258	0.248	ng	# 1
49) Acenaphthylene	9.74	152	1109	0.050	ng	# 63
50) Dimethylphthalate	9.59	163	129157	7.272	ng	# 99
51) 2,6-Dinitrotoluene	9.59	165	1251	0.324	ng	# 1
52) Acenaphthene	9.90	154	54689	3.986	ng	# 99
53) 3-Nitroaniline	10.08	138	495	0.104	ng	# 4
55) Dibenzofuran	10.08	168	36451	1.827	ng	# 96
58) Fluorene	10.42	166	53760	3.502	ng	# 97
60) Diethylphthalate	10.29	149	2956	0.178	ng	# 95
62) 4-Nitroaniline	10.42	138	349	0.071	ng	# 17
63) Azobenzene	10.58	77	1953	0.115	ng	# 1
65) 4,6-Dinitro-2-methylphenol	10.67	198	728	0.301	ng	# 1
66) n-Nitrosodiphenylamine	10.53	169	3221	0.235	ng	# 55
71) Phenanthrene	11.39	178	857757	36.783	ng	# 99
72) Anthracene	11.44	178	245644	10.408	ng	# 99
73) Carbazole	11.59	167	61530	2.874	ng	# 98
74) Di-n-butylphthalate	11.92	149	5322	0.213	ng	# 59
75) Fluoranthene	12.58	202	1131734	46.357	ng	# 97
77) Benzidine	12.95	184	19386	1.913	ng	# 96
78) Pyrene	12.81	202	945473	41.824	ng	# 99

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
 Data File : BF116012.D
 Acq On : 6 Aug 2019 14:49
 Operator : HP/JU
 Sample : K4135-16
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1S-B1-B4-COMP-(30)

Manual Integrations
 APPROVED

mohammad
 8/7/2019 4:41:55 PM

Quant Time: Aug 07 03:41:05 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) Benzo(a)anthracene	13.99	228	483102	25.204	nq	99
82) 3,3'-Dichlorobenzidine	14.03	252	3191	0.479	nq #	1
83) Chrysene	14.03	228	385659	20.725	nq	97
84) Bis(2-ethylhexyl)phthalate	13.97	149	8127	0.654	nq	98
85) Di-n-octyl phthalate	14.58	149	513	0.026	nq #	78
86) Indeno(1,2,3-cd)pyrene	16.93	276	219837	14.066	nq	95
88) Benzo(b)fluoranthene	15.04	252	474499m	22.982	nq	
89) Benzo(k)fluoranthene	15.06	252	171599m	8.533	nq	
90) Benzo(a)pyrene	15.40	252	349508	18.937	nq	99
91) Dibenzo(a,h)anthracene	16.93	278	56795m	3.555	nq	
92) Benzo(a,h,i)perylene	17.37	276	196719	12.538	nq	100

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

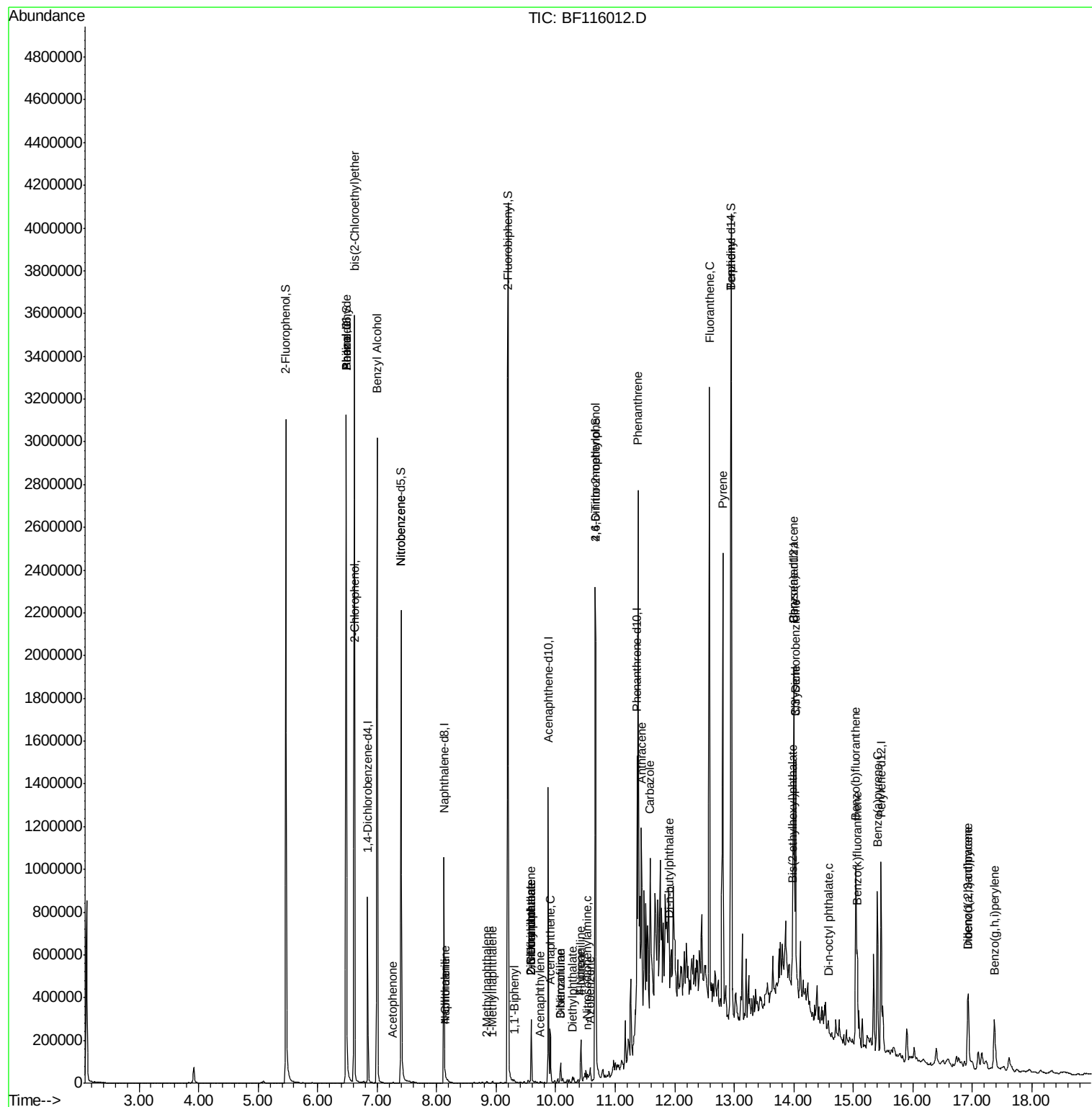
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
Operator : HP/JU
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

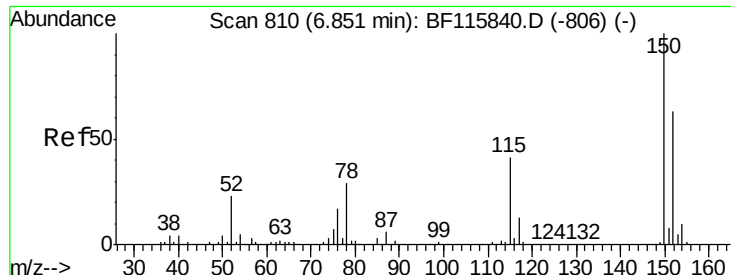
Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM

Quant Time: Aug 07 03:41:05 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 31 15:31:51 2019
Response via : Initial Calibration





#1

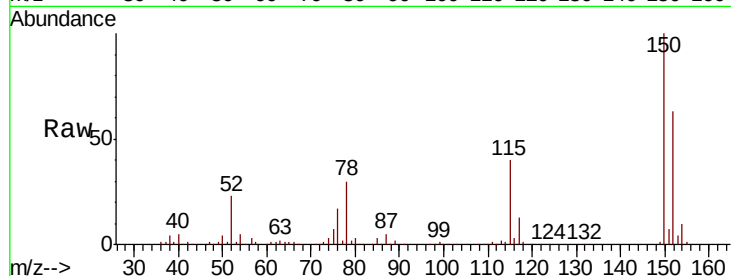
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	127.4	191.0
115	63.6	51.8	77.8

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM

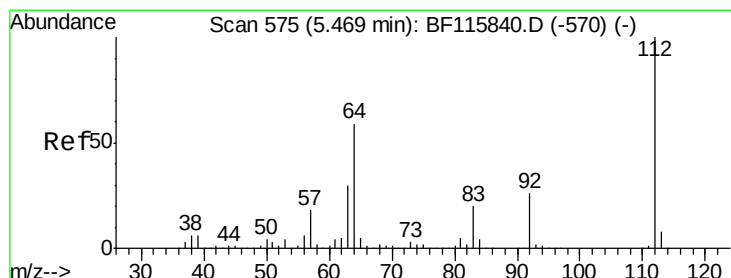
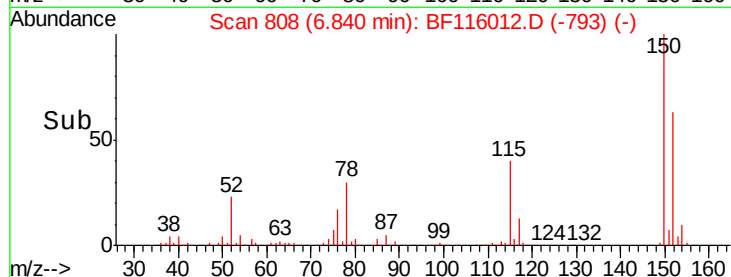
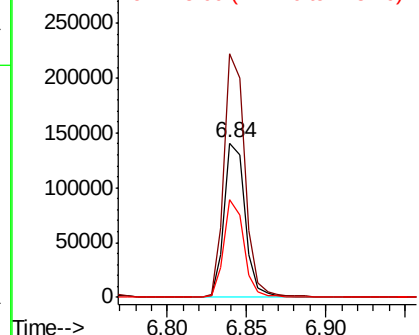


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

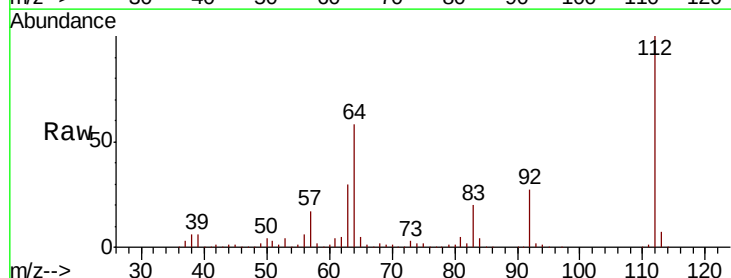
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 120.232 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.00 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.7	46.8	70.2
63	30.3	24.2	36.2

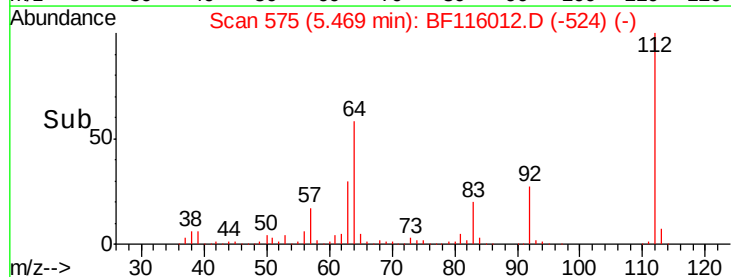
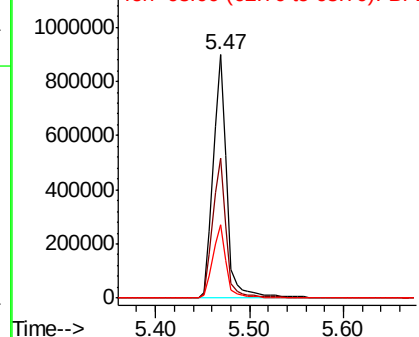


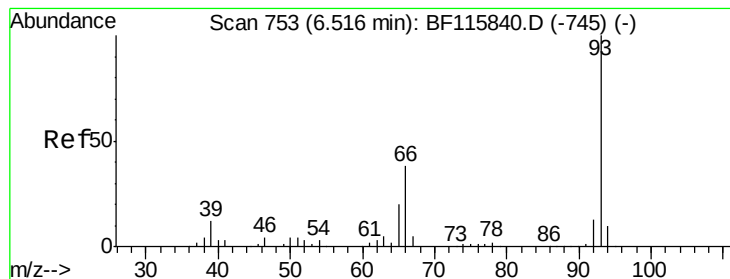
Abundance

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





#6

Aniline

Concen: 0.020 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.03 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion: 93 Resp: 278

Ion Ratio Lower Upper

93 100

66 4908.9 31.4 47.0

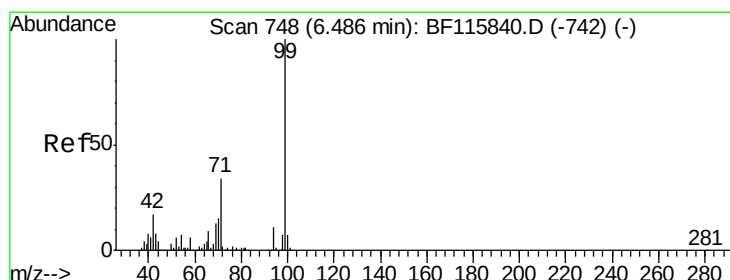
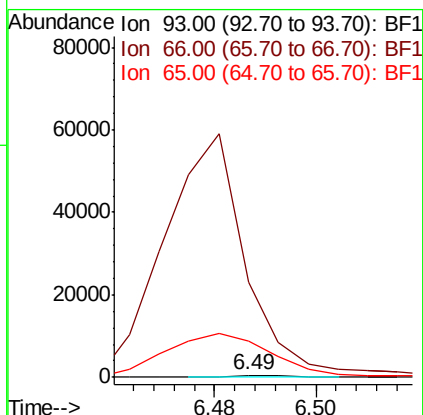
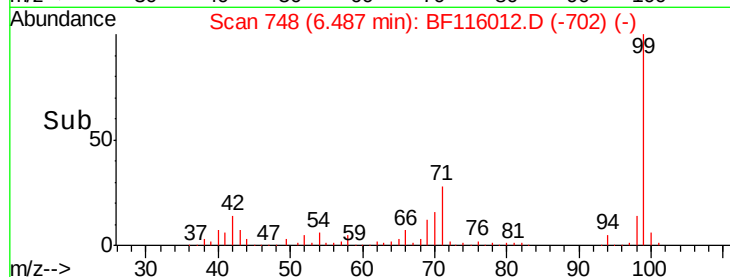
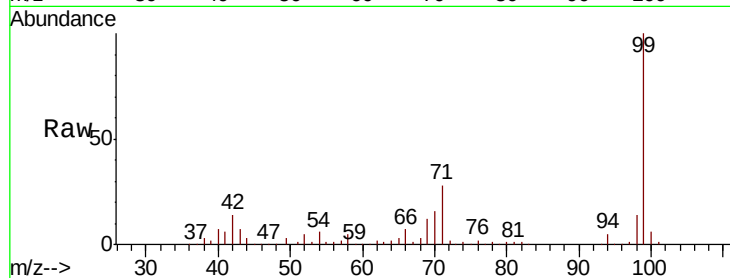
65 1900.9 16.5 24.7

Manual Integrations

APPROVED

mohammad

8/7/2019 4:41:55 PM



#7

Phenol-d6

Concen: 124.685 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

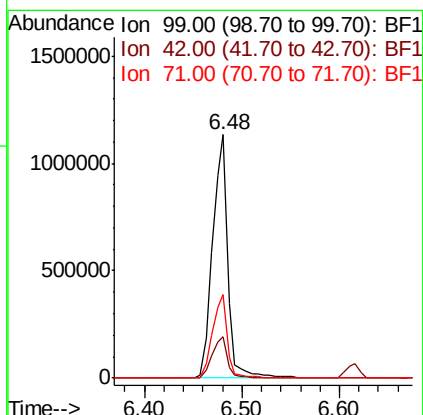
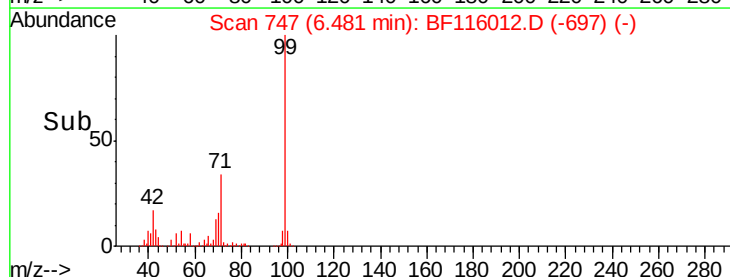
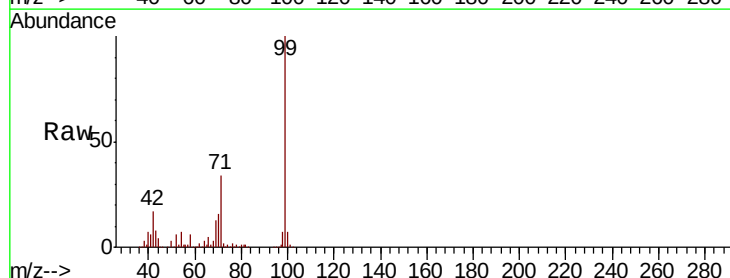
Tgt Ion: 99 Resp: 1223868

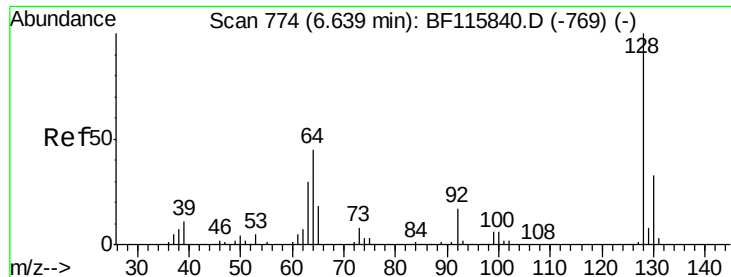
Ion Ratio Lower Upper

99 100

42 17.0 13.8 20.6

71 34.3 27.1 40.7





#8

2-Chlorophenol

Concen: 0.029 ng

RT: 6.63 min Scan# 772

Delta R.T. -0.01 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

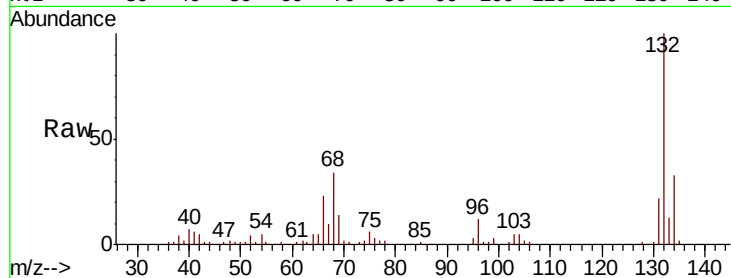
ClientSampled :

1S-B1-B4-COMP-(30)

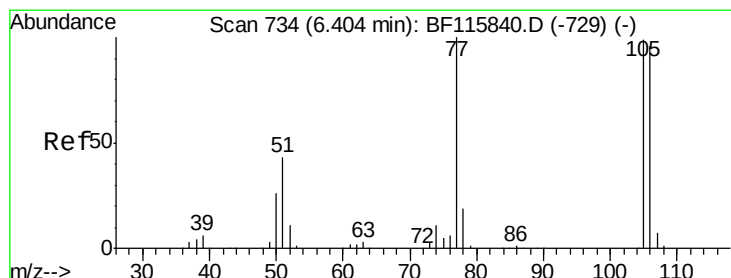
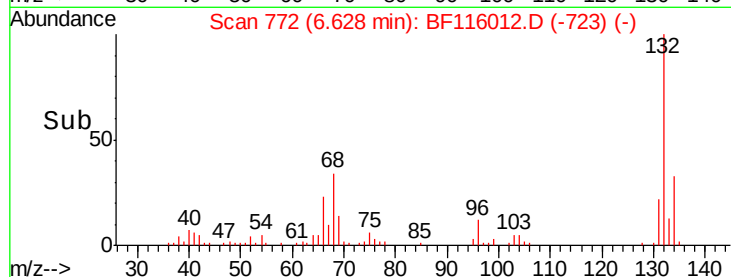
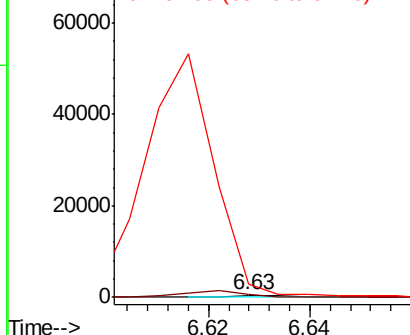
Tot Ion:	128	Resp:	246
Ion Ratio	Lower	Upper	
128	100		
130	178.6	12.9	52.9#
64	778.3	26.1	66.1#

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF1



#9

Benzaldehyde

Concen: 0.288 ng

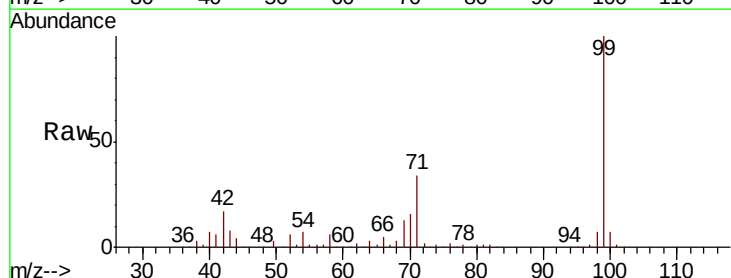
RT: 6.48 min Scan# 747

Delta R.T. 0.08 min

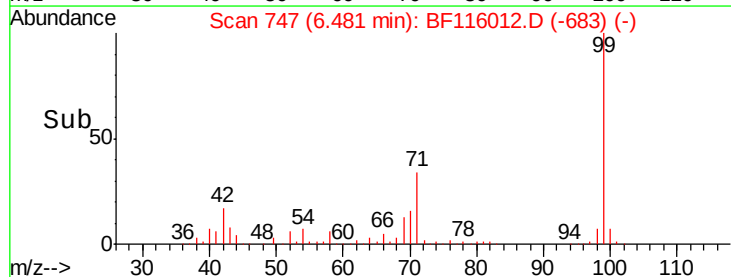
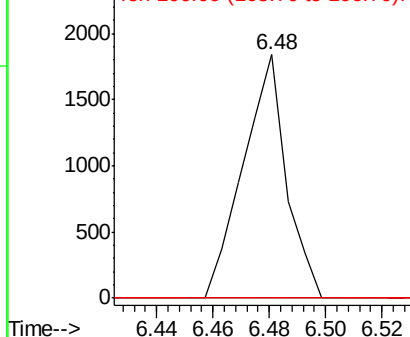
Lab File: BF116012.D

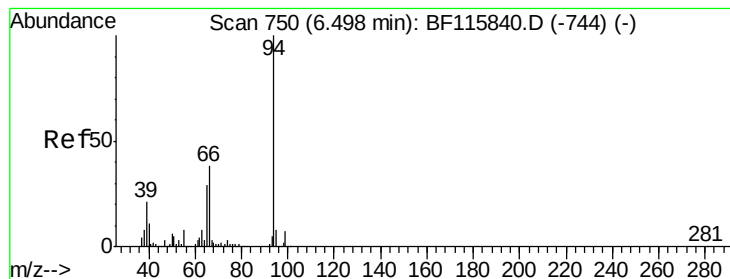
Acq: 6 Aug 2019 14:49

Tgt Ion:	77	Resp:	1950
Ion Ratio	Lower	Upper	
77	100		
105	0.0	79.0	119.0#
106	0.0	76.2	116.2#



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 1.519 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

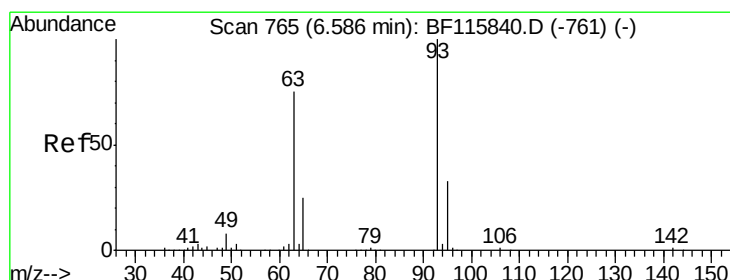
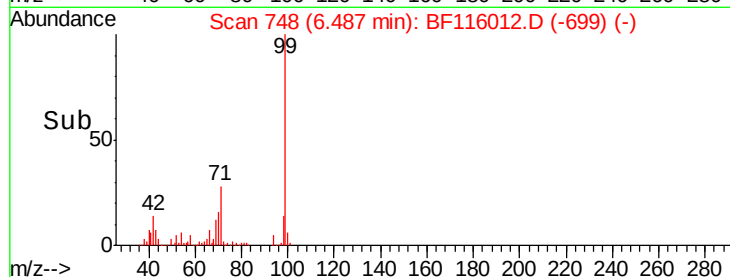
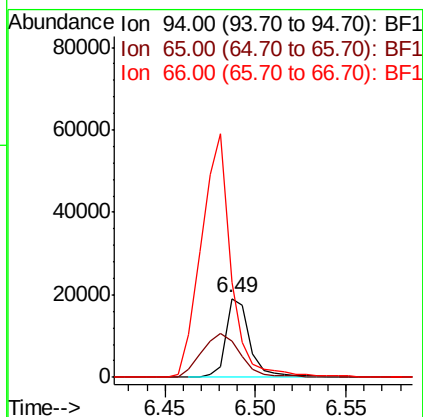
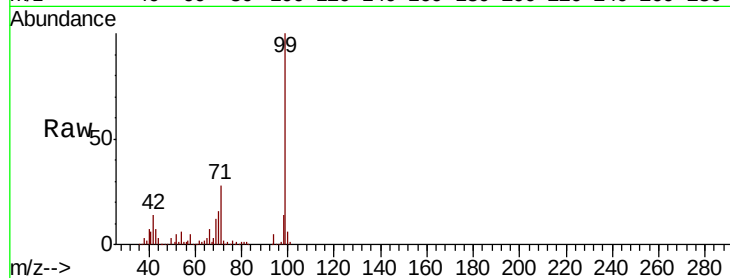
ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion:	94	Resp:	17553
Ion	Ratio	Lower	Upper
94	100		
65	46.9	8.9	48.9
66	121.0	18.0	58.0#

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



#11

bis(2-Chloroethyl)ether

Concen: 0.168 ng

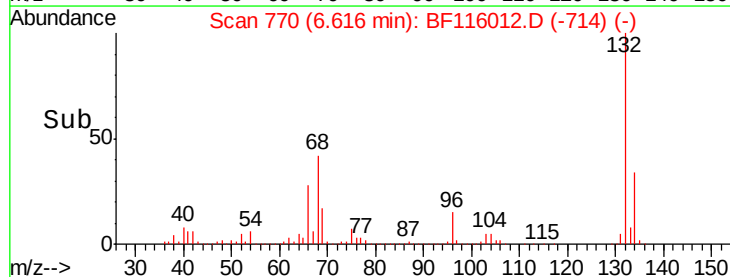
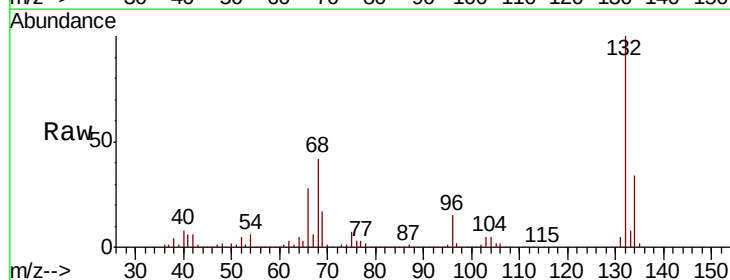
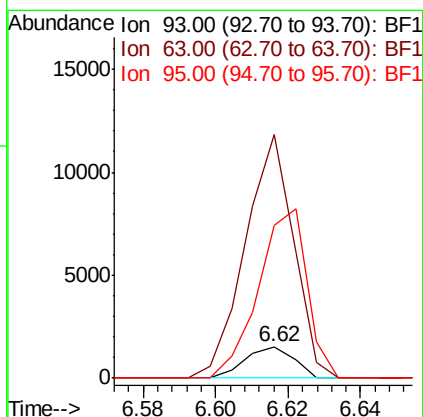
RT: 6.62 min Scan# 770

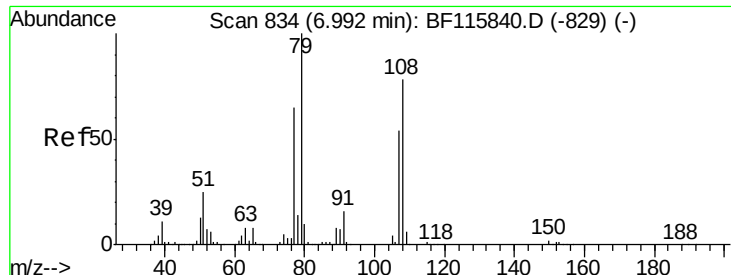
Delta R.T. 0.03 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion:	93	Resp:	1429
Ion	Ratio	Lower	Upper
93	100		
63	768.7	54.9	94.9#
95	483.6	13.3	53.3#





#15

Benzyl Alcohol

Concen: 1.754 ng

RT: 7.00 min Scan# 835

Delta R.T. 0.01 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion: 79 Resp: 13066

Ion Ratio Lower Upper

79 100

108 34.6 62.8 94.2#

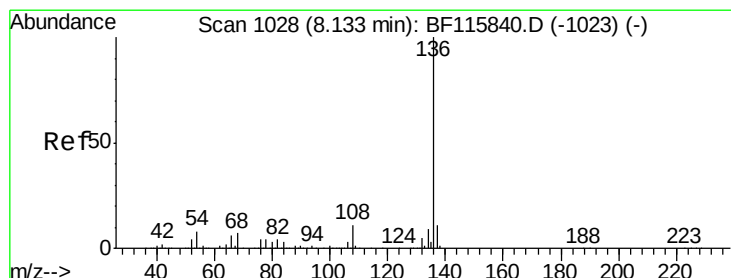
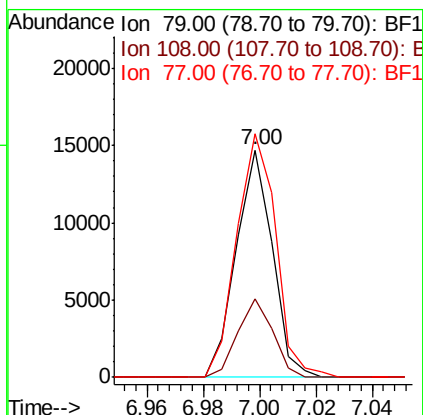
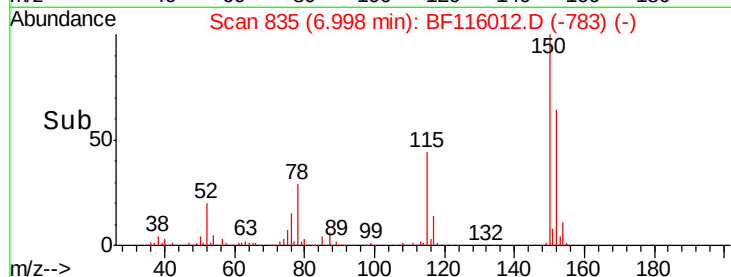
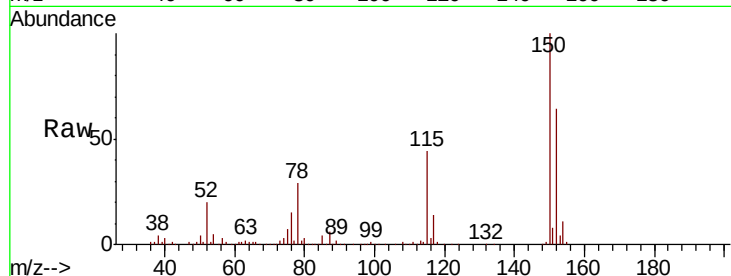
77 107.3 52.0 78.0#

Manual Integrations

APPROVED

mohammad

8/7/2019 4:41:55 PM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion: 136 Resp: 497539

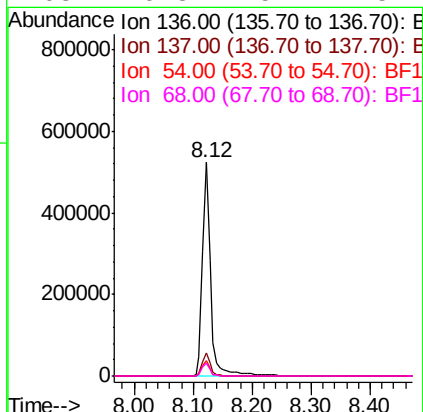
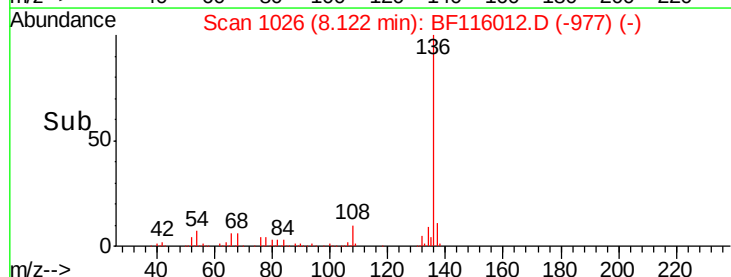
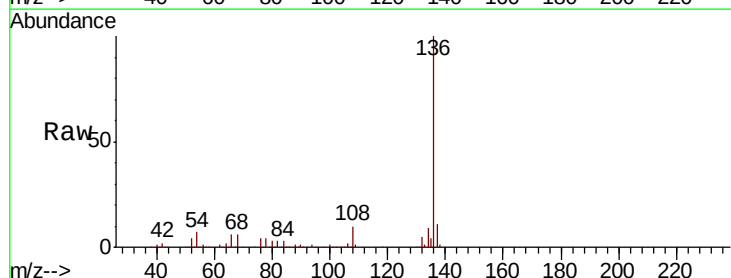
Ion Ratio Lower Upper

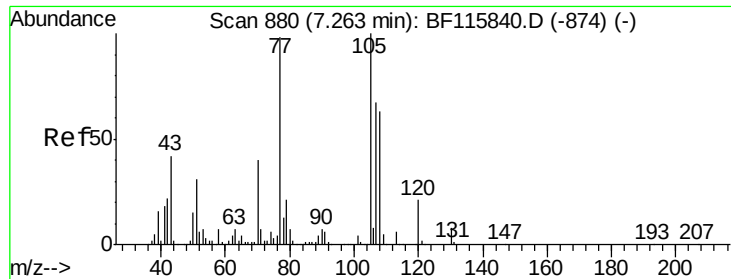
136 100

137 11.1 9.1 13.7

54 7.1 6.1 9.1

68 6.3 5.4 8.2





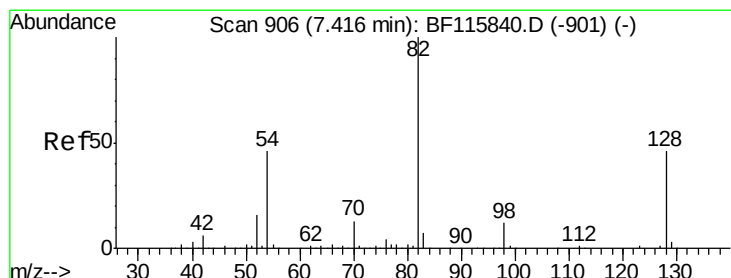
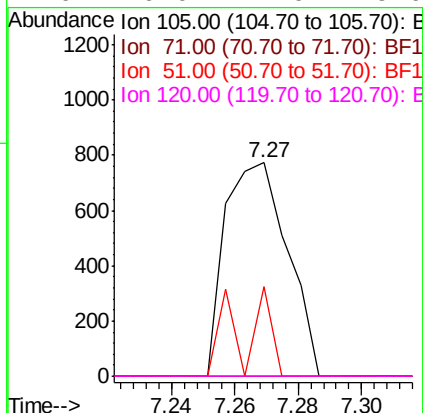
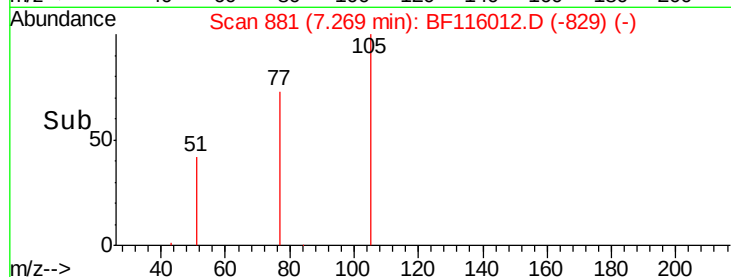
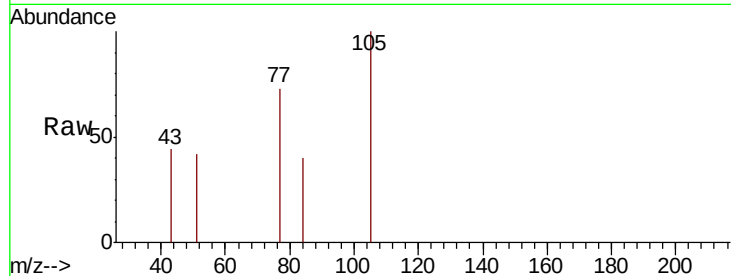
#22
Acetophenone
Concen: 0.096 ng
RT: 7.27 min Scan# 881
Delta R.T. 0.01 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
105	100		
71	0.0	5.4	8.0#
51	42.2	24.6	36.8#
120	0.0	17.0	25.6#

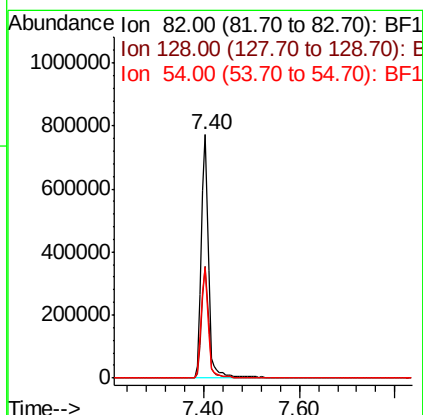
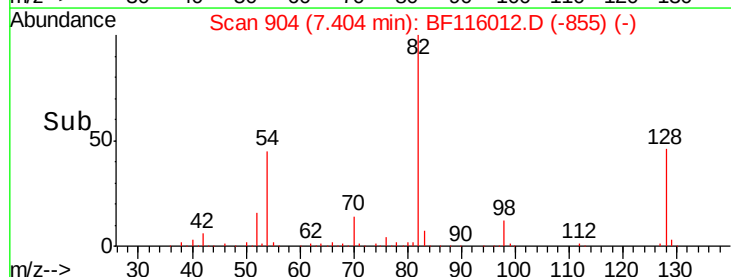
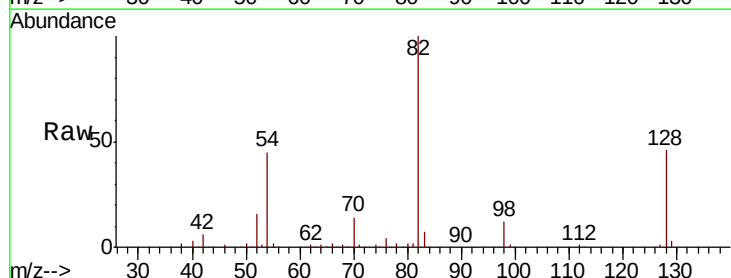
Manual Integrations
APPROVED

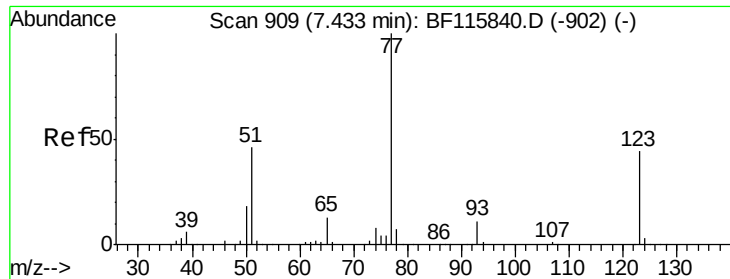
mohammad
8/7/2019 4:41:55 PM



#23
Nitrobenzene-d5
Concen: 93.643 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.0	36.6	55.0
54	45.5	36.6	55.0





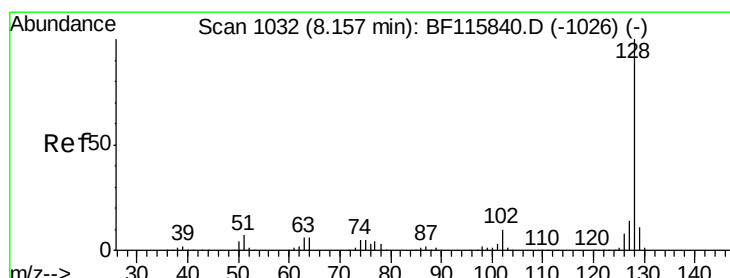
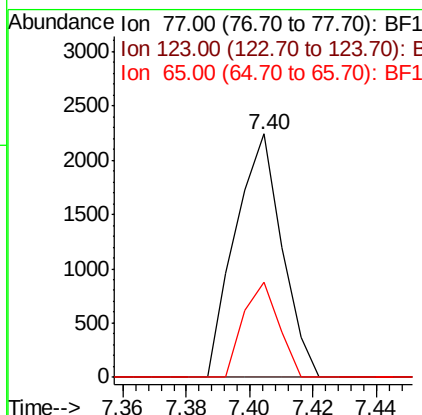
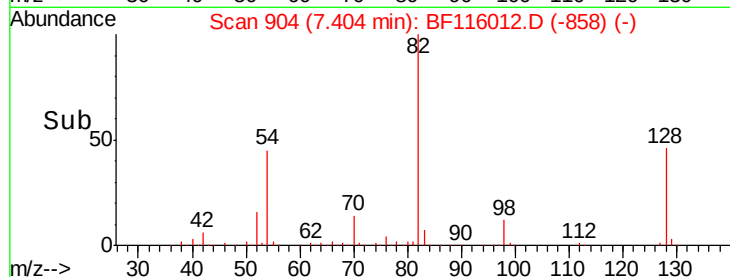
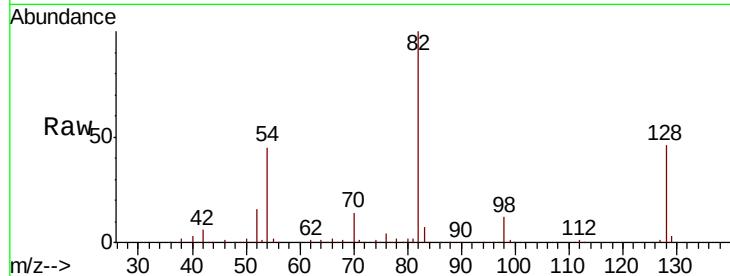
#24
Nitrobenzene
Concen: 0.246 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.03 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
77	100		
123	0.0	35.5	53.3#
65	39.1	10.6	15.8#

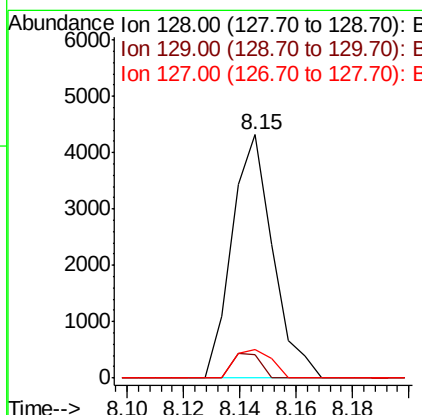
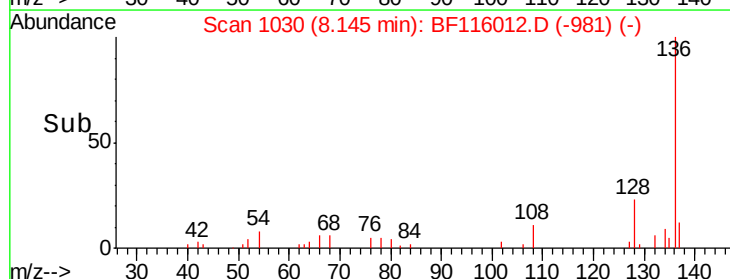
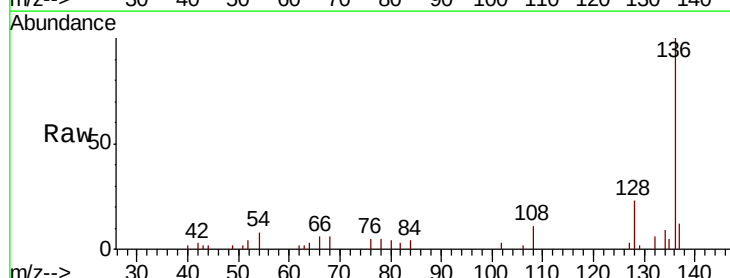
Manual Integrations
APPROVED

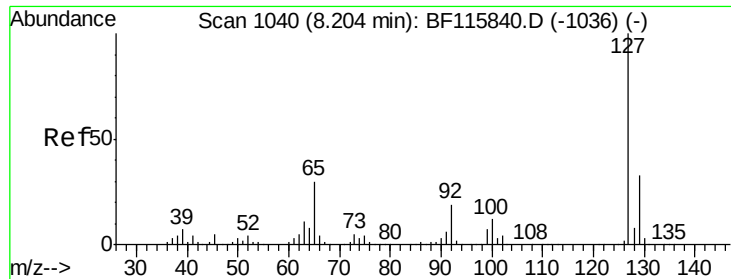
mohammad
8/7/2019 4:41:55 PM



#31
Naphthalene
Concen: 0.185 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.01 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	9.4	9.2	13.8
127	11.8	11.0	16.4





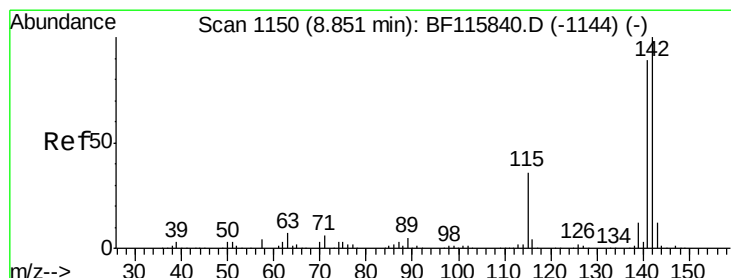
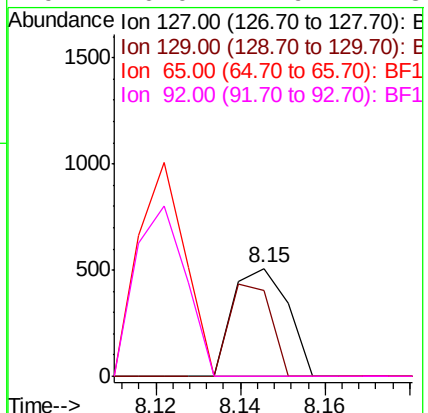
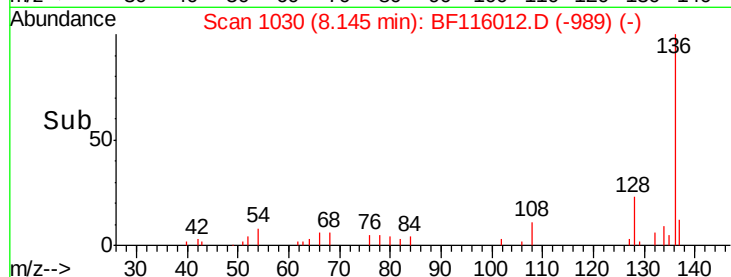
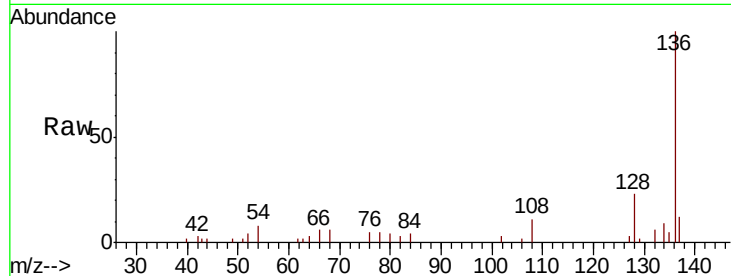
#33
4-Chloroaniline
Concen: 0.044 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.06 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
127	100		
129	80.0	26.0	39.0#
65	0.0	23.9	35.9#
92	0.0	14.9	22.3#

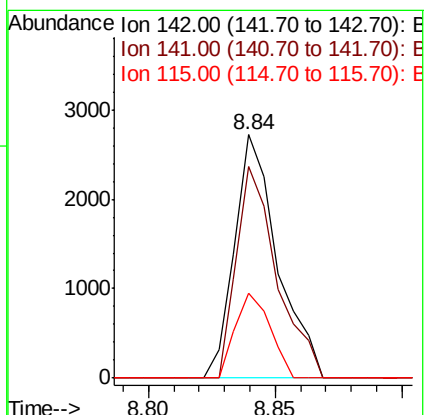
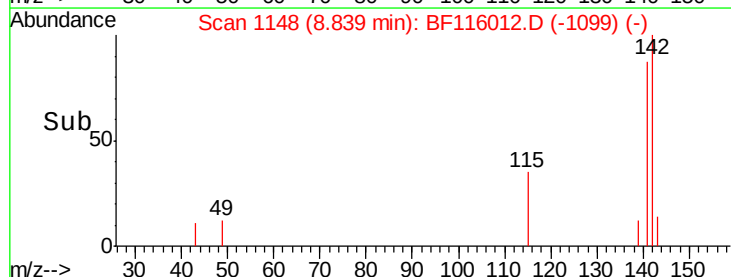
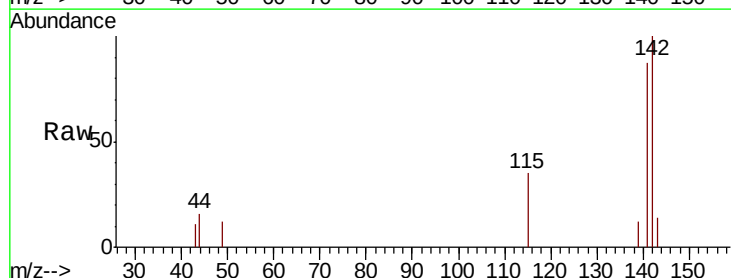
Manual Integrations
APPROVED

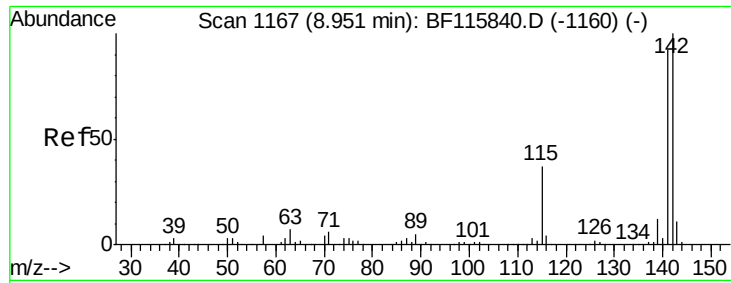
mohammad
8/7/2019 4:41:55 PM



#37
2-Methylnaphthalene
Concen: 0.208 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.1	71.4	107.2
115	34.7	28.9	43.3





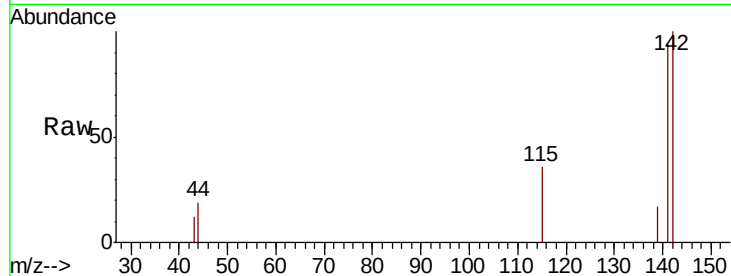
#38
1-Methylnaphthalene
Concen: 0.195 ng
RT: 8.93 min Scan# 1164
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

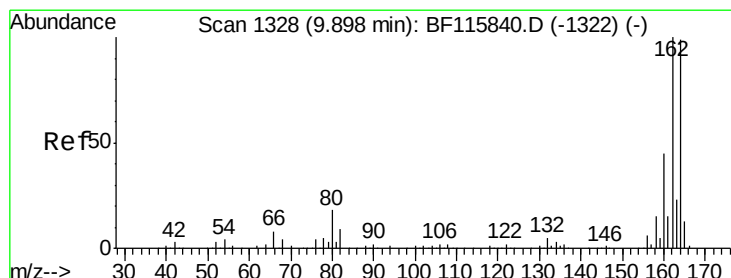
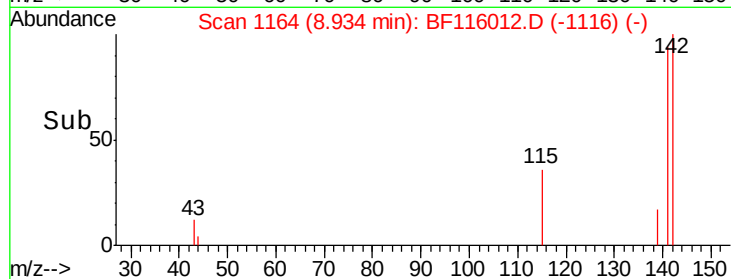
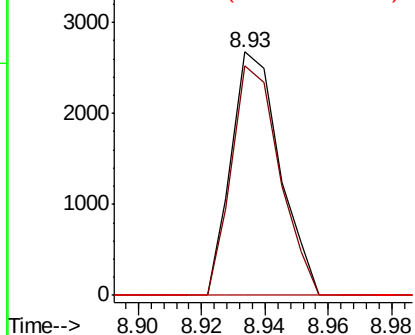
Tot Ion	Ratio	Lower	Upper
142	100		
141	94.3	73.8	110.6
116	0.0	3.1	4.7#

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



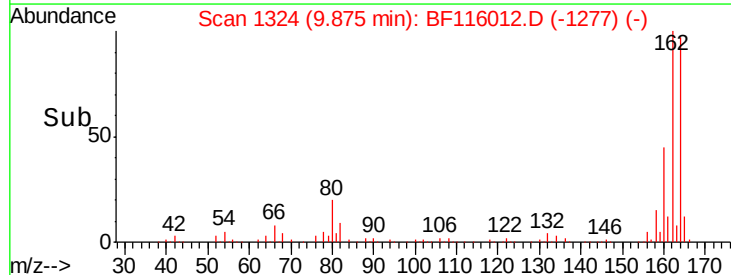
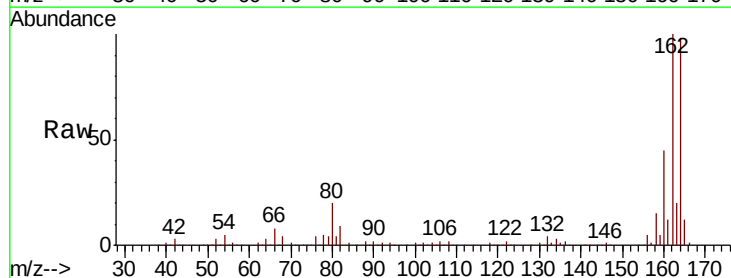
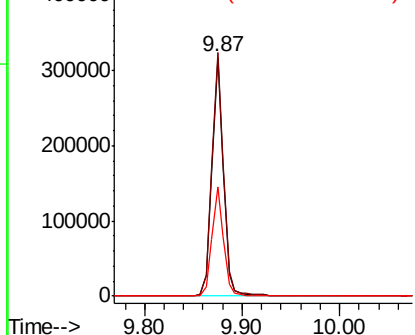
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

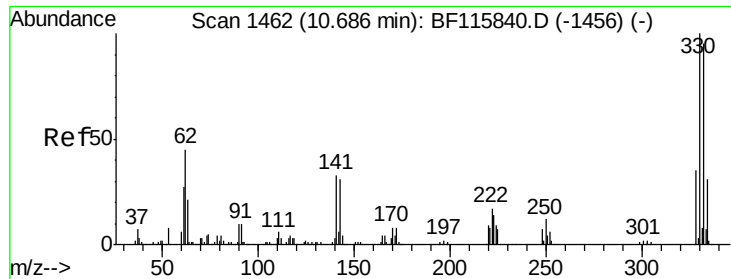


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	80.8	121.2
160	45.6	36.2	54.4

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: 123.023 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.02 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

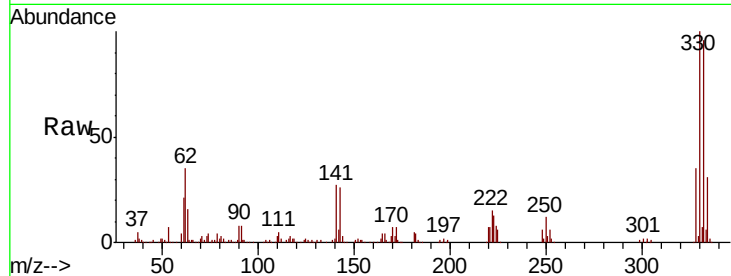
ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion:	330	Resp:	311144
Ion Ratio	Lower	Upper	
330	100		
332	95.6	77.7	116.5
141	34.6	28.1	42.1

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM

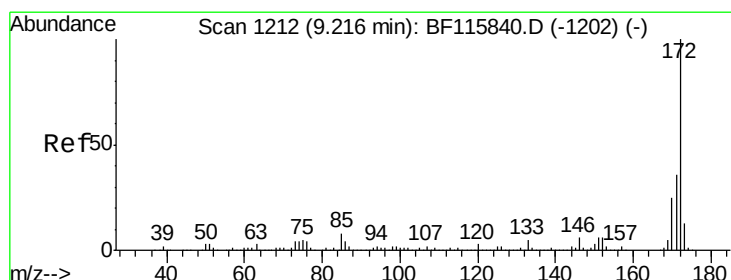
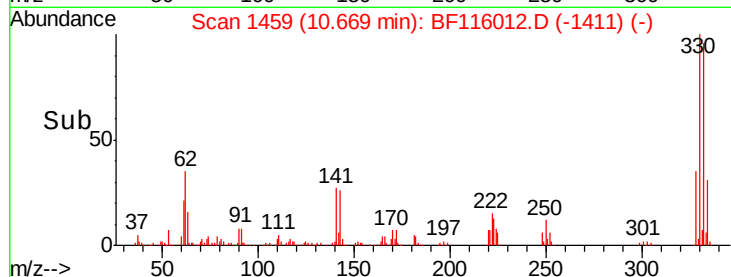
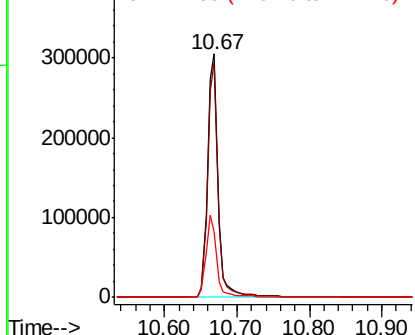


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 94.231 ng

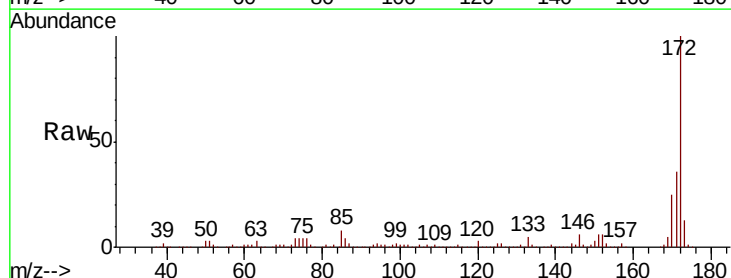
RT: 9.20 min Scan# 1209

Delta R.T. -0.02 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion:	172	Resp:	1312359
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.1	43.7
170	25.2	20.1	30.1

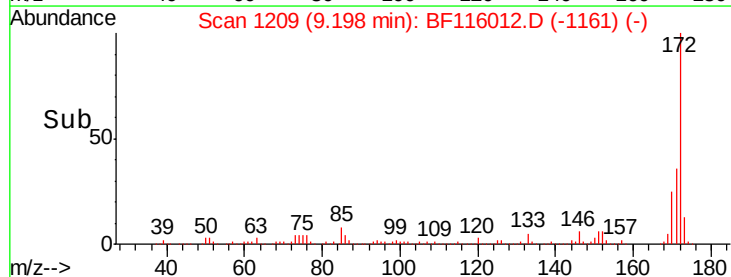
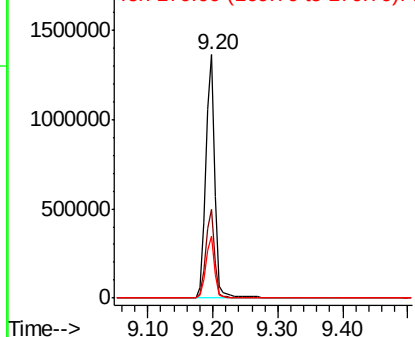


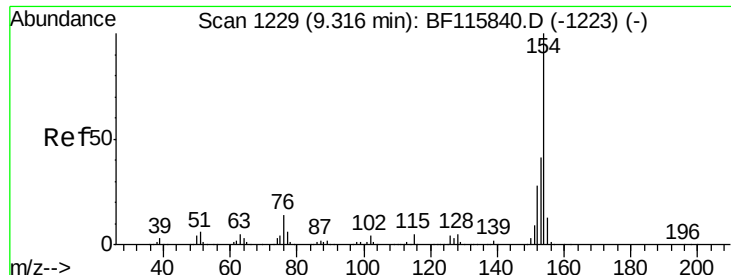
Abundance

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





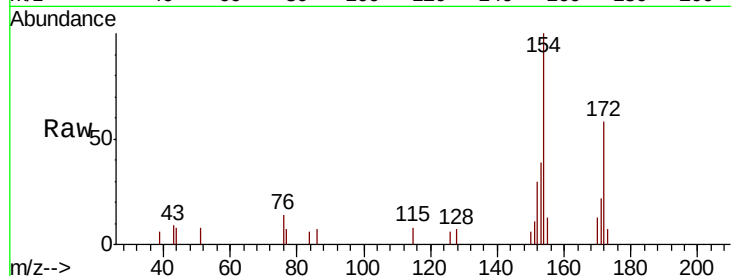
#46
 1,1'-Biphenyl
 Concen: 0.248 ng
 RT: 9.30 min Scan# 1226
 Delta R.T. -0.02 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Instrument :
 BNA_F
 ClientSampleId :
 1S-B1-B4-COMP-(30)

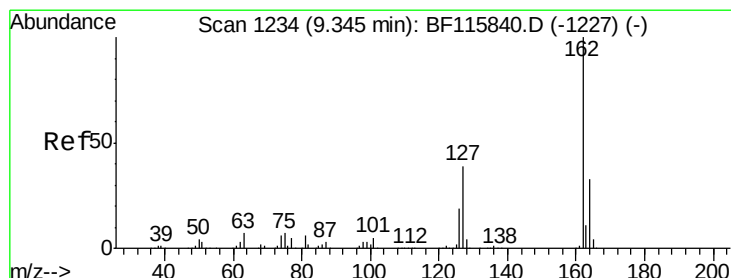
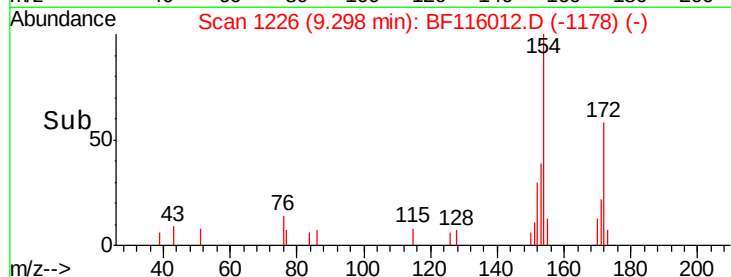
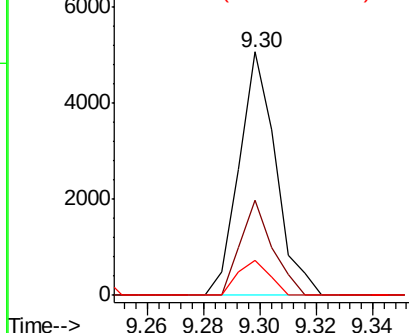
Tot Ion:	154	Resp:	4563
Ion Ratio	Lower	Upper	
154	100		
153	38.8	20.9	60.9
76	14.4	0.0	34.3

Manual Integrations
 APPROVED

mohammad
 8/7/2019 4:41:55 PM

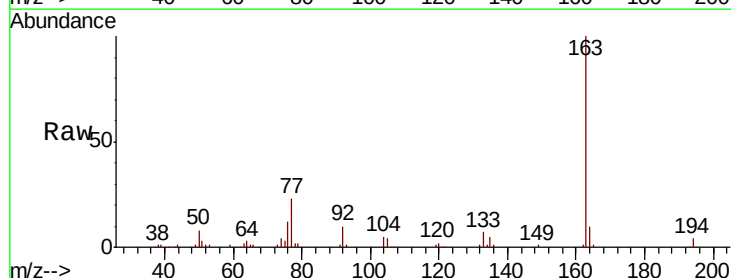


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

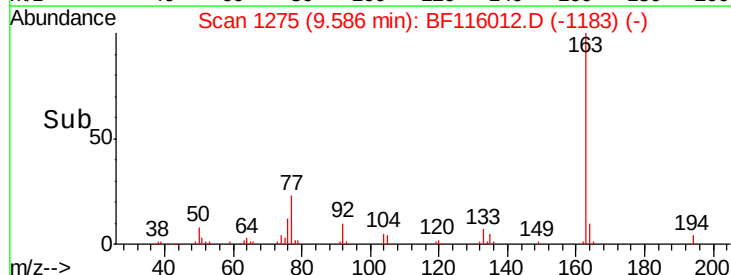
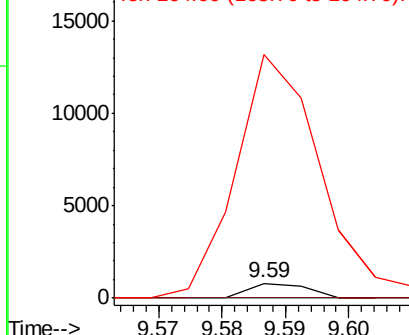


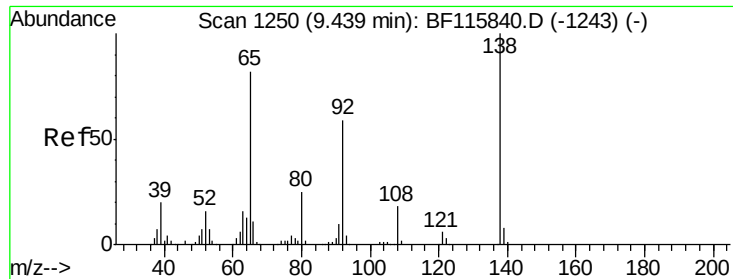
#47
 2-Chloronaphthalene
 Concen: 0.033 ng
 RT: 9.59 min Scan# 1275
 Delta R.T. 0.24 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Tgt Ion:	162	Resp:	502
Ion Ratio	Lower	Upper	
162	100		
127	0.0	31.3	46.9#
164	1640.3	26.6	40.0#



Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E





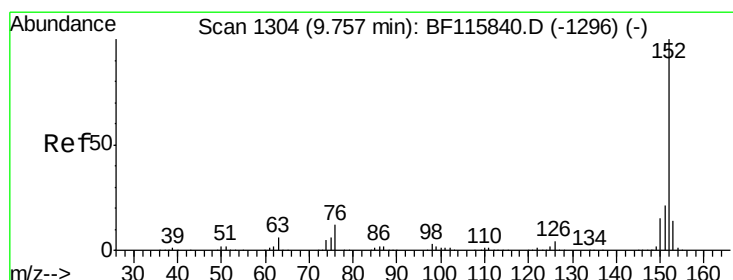
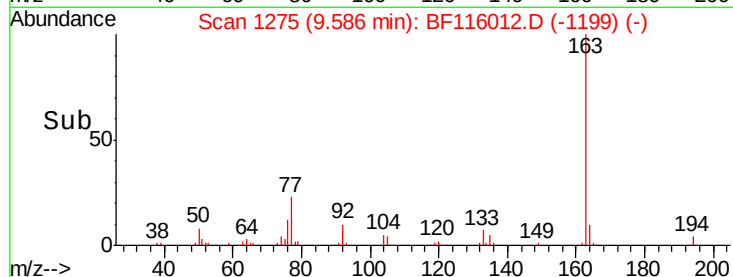
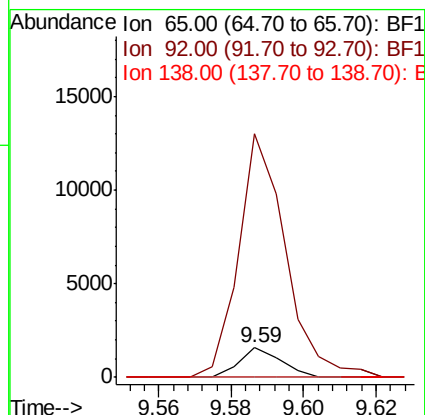
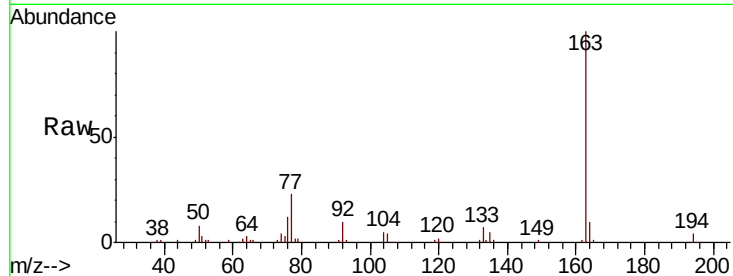
#48
2-Nitroaniline
Concen: 0.248 ng
RT: 9.59 min Scan# 1275
Delta R.T. 0.15 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
65	100		
92	819.7	57.1	85.7#
138	0.0	97.1	145.7#

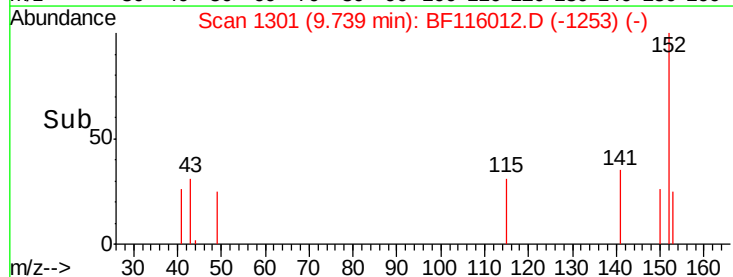
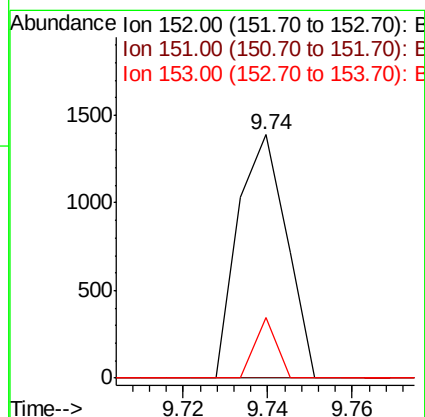
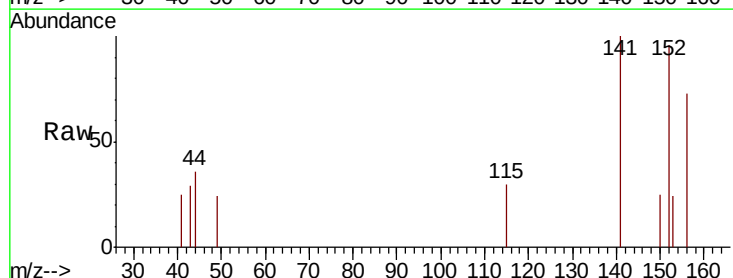
Manual Integrations
APPROVED

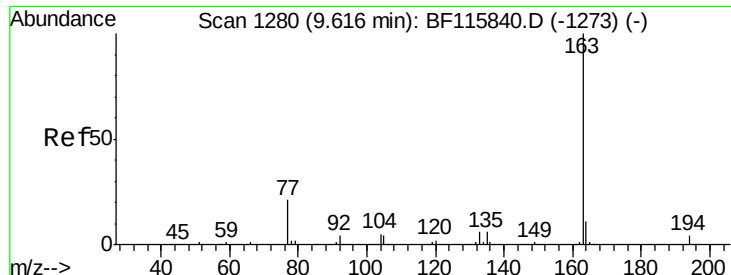
mohammad
8/7/2019 4:41:55 PM



#49
Acenaphthylene
Concen: 0.050 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	0.0	16.8	25.2#
153	24.7	11.6	17.4#





#50

Dimethylphthalate

Concen: 7.272 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.03 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

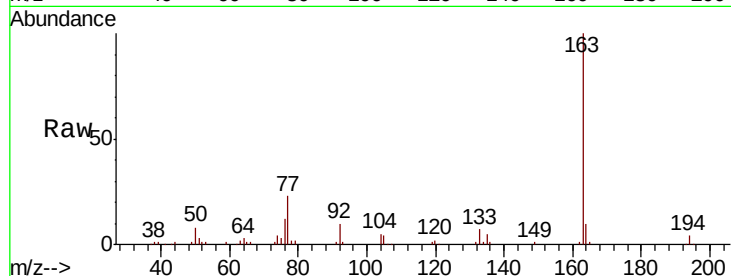
ClientSampleId :

1S-B1-B4-COMP-(30)

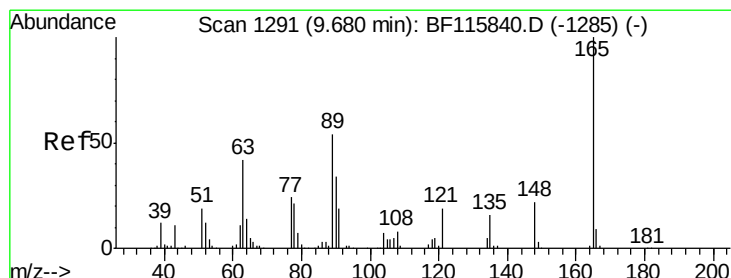
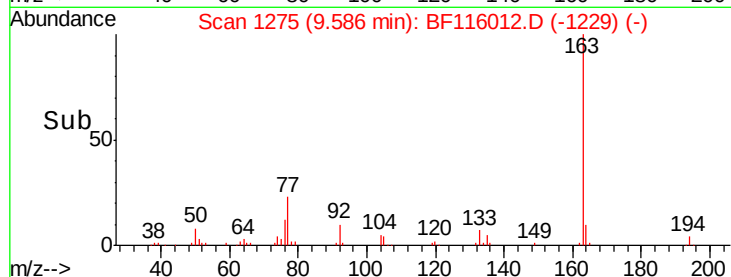
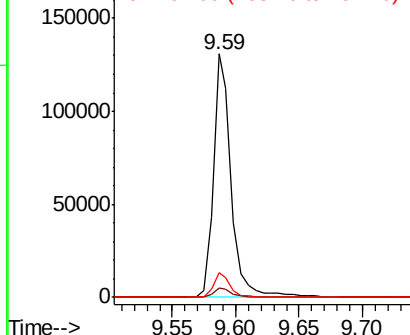
Tot Ion:	163	Resp:	129157
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.6
164	10.1	8.4	12.6

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 0.324 ng

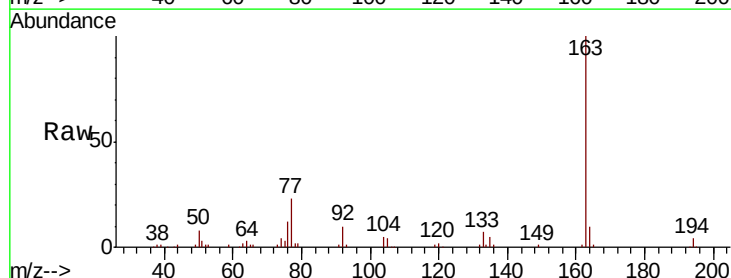
RT: 9.59 min Scan# 1275

Delta R.T. -0.09 min

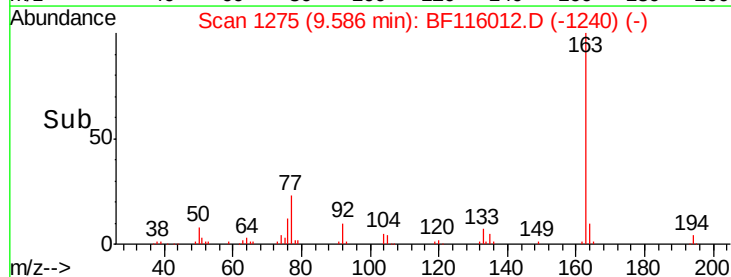
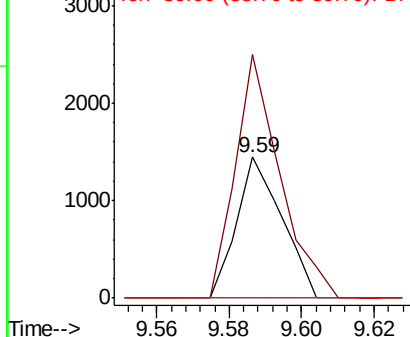
Lab File: BF116012.D

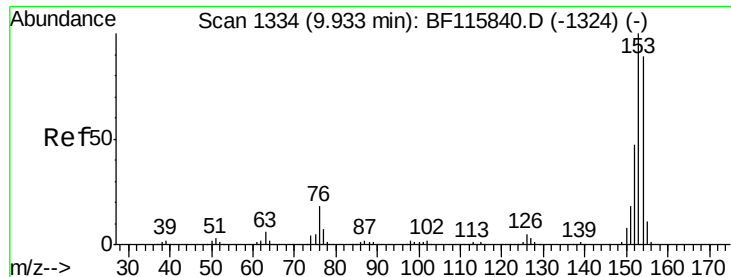
Acq: 6 Aug 2019 14:49

Tgt Ion:	165	Resp:	1251
Ion Ratio	Lower	Upper	
165	100		
63	172.9	39.4	59.2#
89	0.0	43.0	64.6#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 3.986 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.03 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion:154 Resp: 54689

Ion Ratio Lower Upper

154 100

153 113.6 90.1 135.1

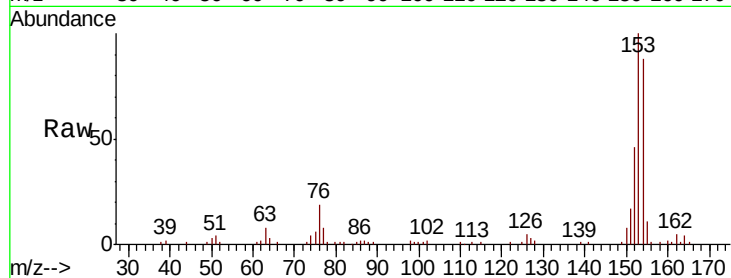
152 52.8 42.6 63.8

Manual Integrations

APPROVED

mohammad

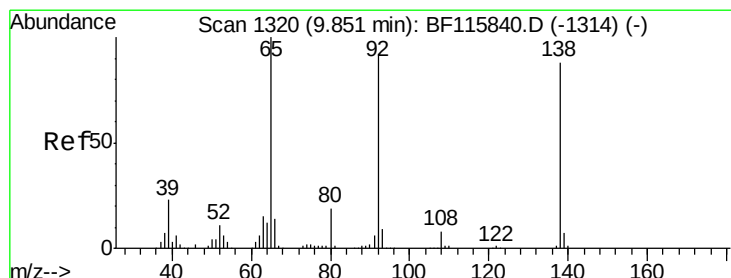
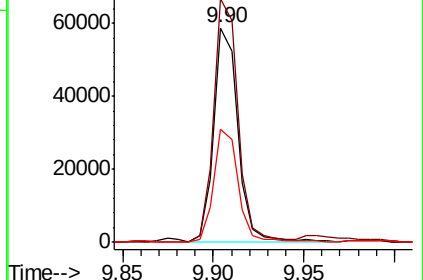
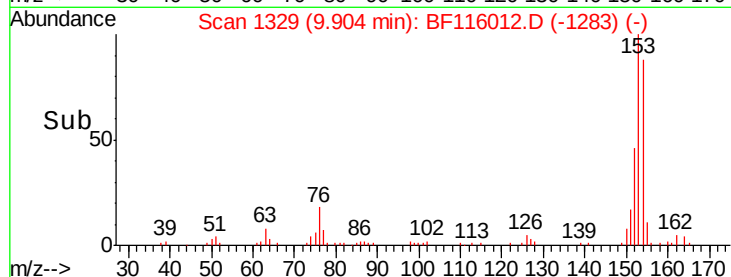
8/7/2019 4:41:55 PM



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



#53

3-Nitroaniline

Concen: 0.104 ng

RT: 10.08 min Scan# 1359

Delta R.T. 0.23 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

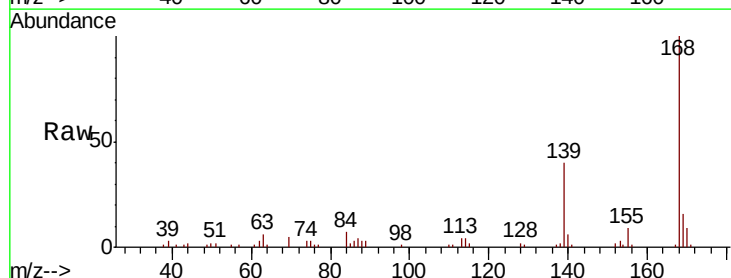
Tgt Ion:138 Resp: 495

Ion Ratio Lower Upper

138 100

108 0.0 7.4 11.2#

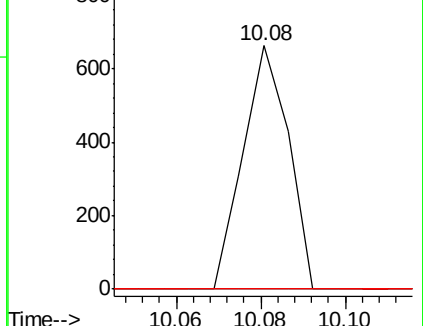
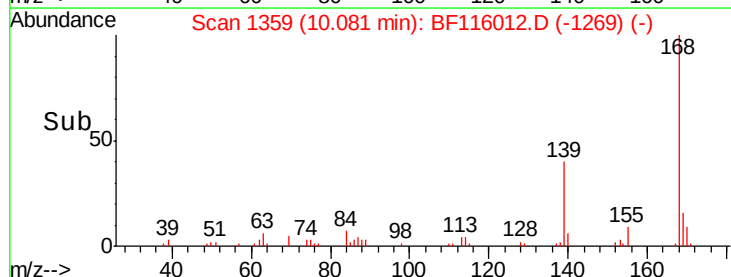
92 0.0 83.9 125.9#

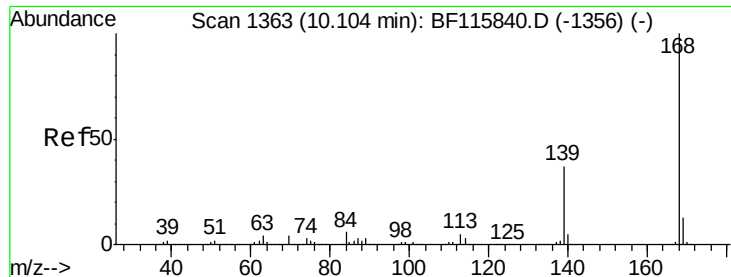


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1





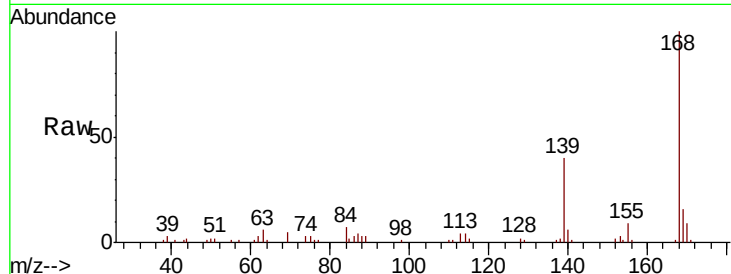
#55
Dibenzenofuran
Concen: 1.827 ng
RT: 10.08 min Scan# 1359
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.8	30.2	45.2
169	15.6	10.8	16.2

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM

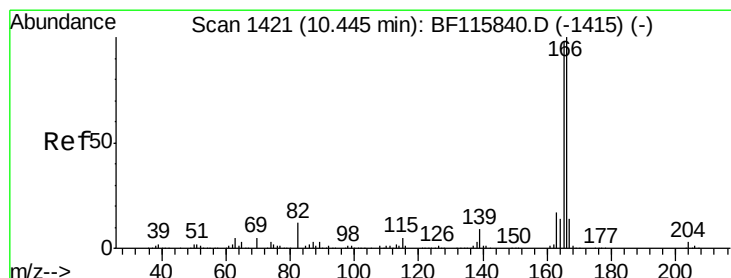
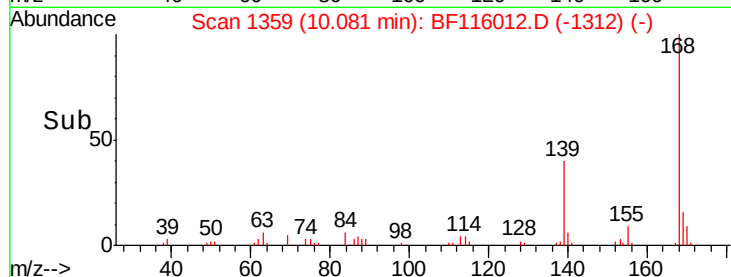
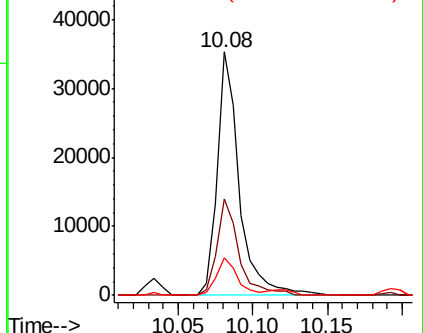


Abundance

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: 3.502 ng
RT: 10.42 min Scan# 1417
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

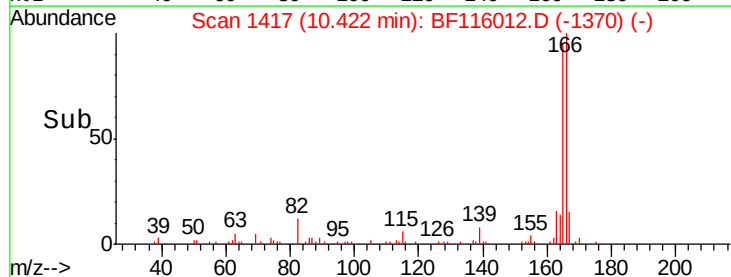
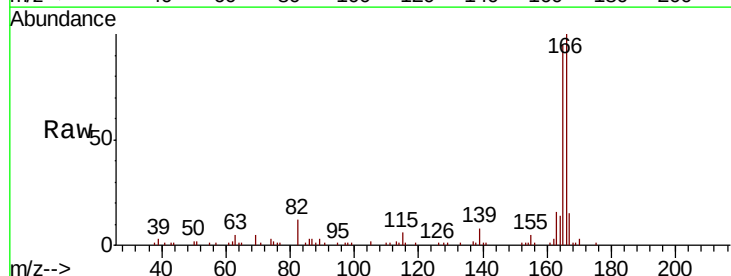
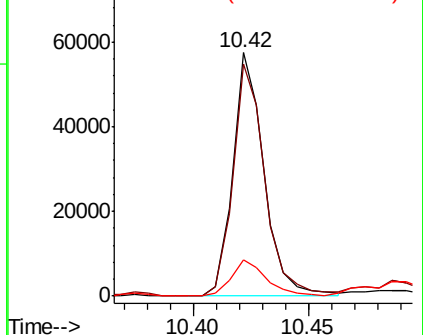
Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.4	78.6	118.0
167	15.1	10.9	16.3

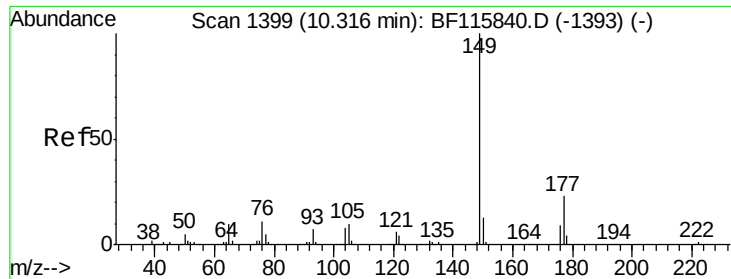
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#60

Diethylphthalate

Concen: 0.178 ng

RT: 10.29 min Scan# 1394

Delta R.T. -0.03 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

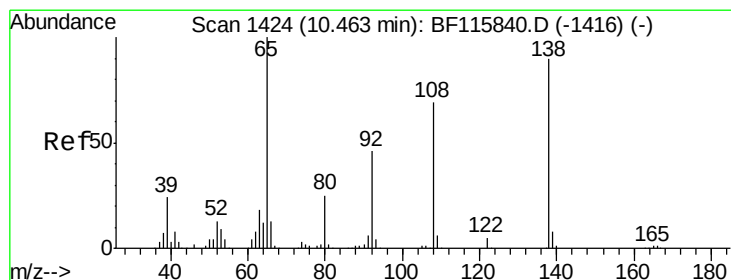
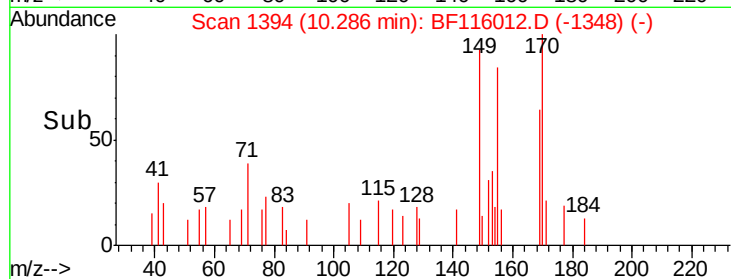
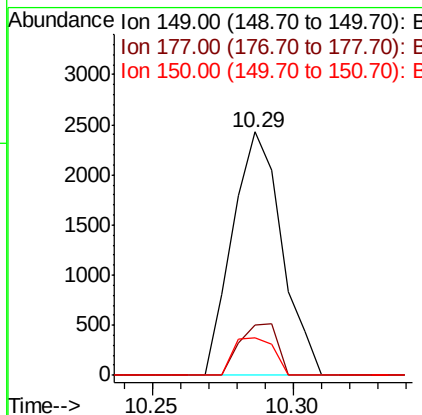
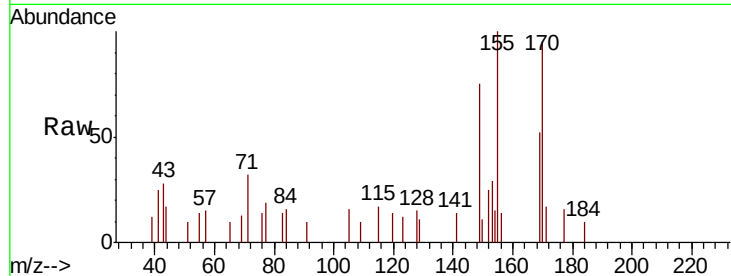
ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion:	149	Resp:	2956
Ion Ratio	Lower	Upper	
149	100		
177	20.6	18.4	27.6
150	15.2	10.1	15.1#

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



#62

4-Nitroaniline

Concen: 0.071 ng

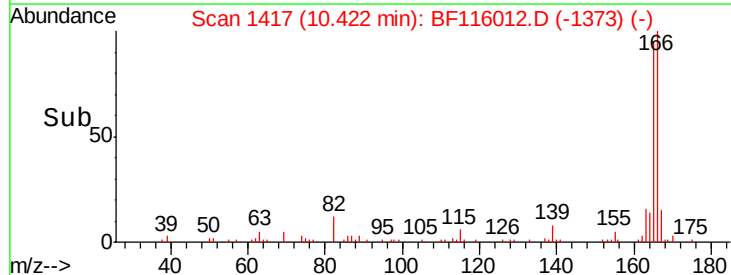
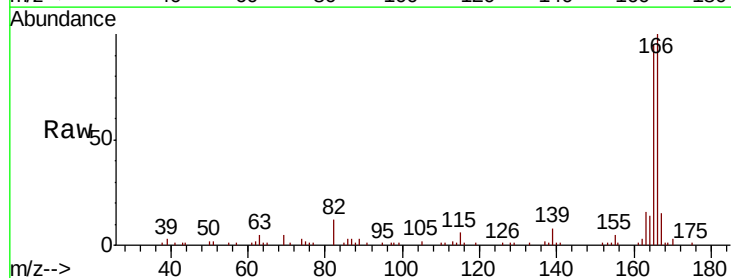
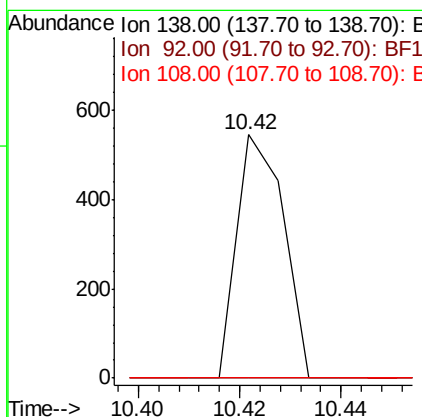
RT: 10.42 min Scan# 1417

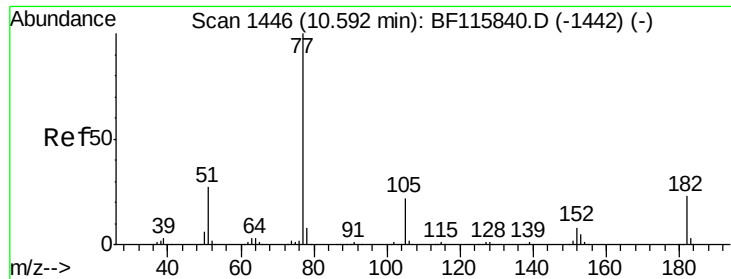
Delta R.T. -0.04 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion:	138	Resp:	349
Ion Ratio	Lower	Upper	
138	100		
92	0.0	31.0	71.0#
108	0.0	56.7	96.7#





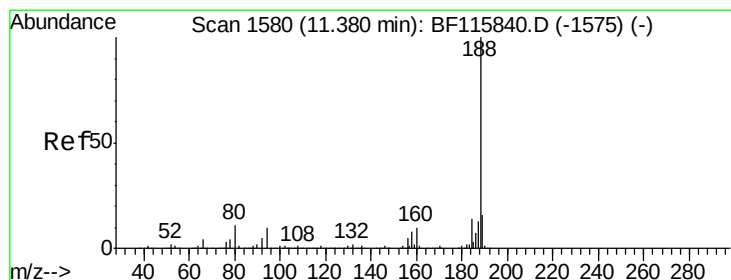
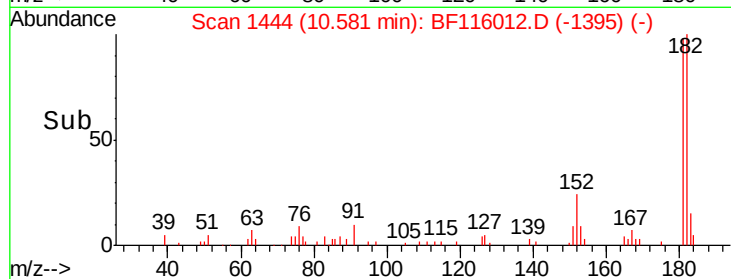
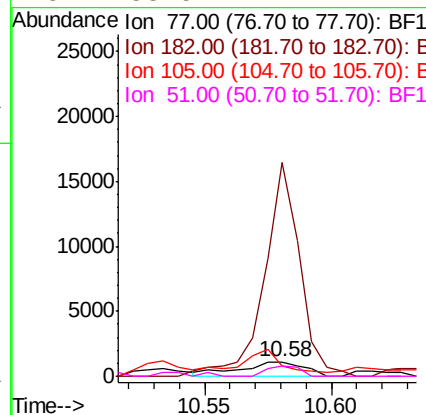
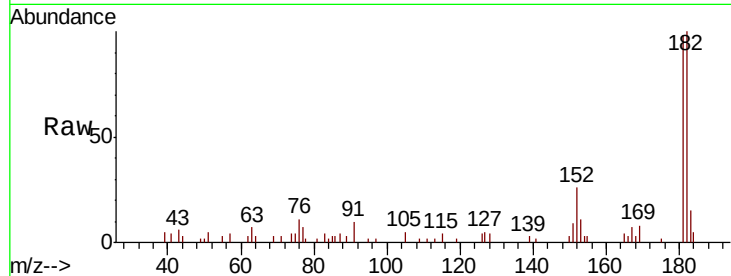
#63
Azobenzene
Concen: 0.115 ng
RT: 10.58 min Scan# 1444
Delta R.T. -0.01 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
77	100		
182	1173.2	2.6	42.6
105	53.7	1.6	41.6
51	58.5	7.4	47.4

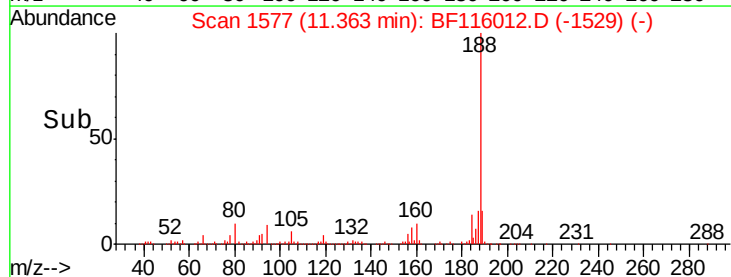
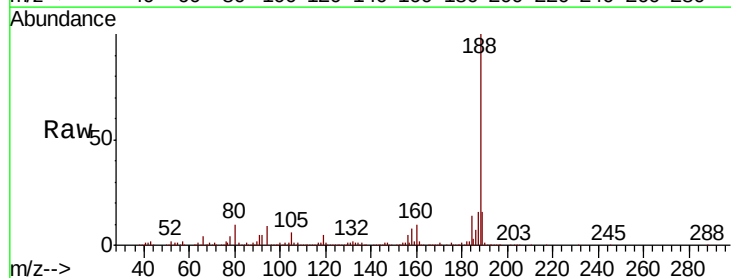
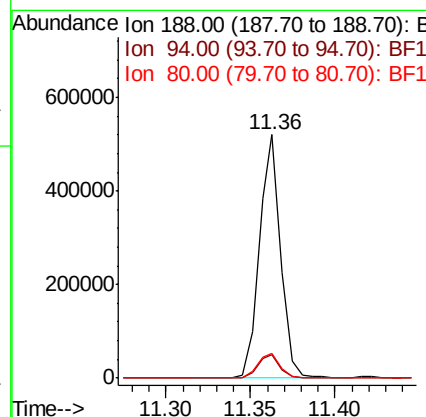
Manual Integrations
APPROVED

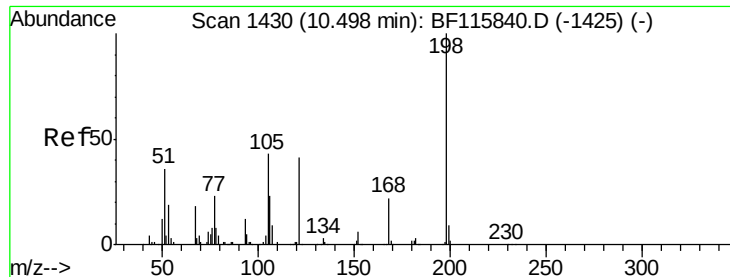
mohammad
8/7/2019 4:41:55 PM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.0	12.0
80	10.4	8.6	12.8





#65

4,6-Dinitro-2-methylphenol

Concen: 0.301 ng

RT: 10.67 min Scan# 1459

Delta R.T. 0.17 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

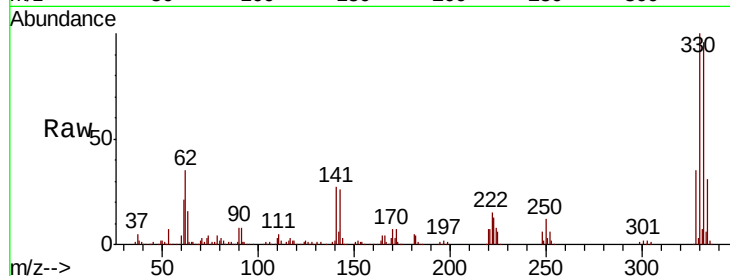
ClientSampleId :

1S-B1-B4-COMP-(30)

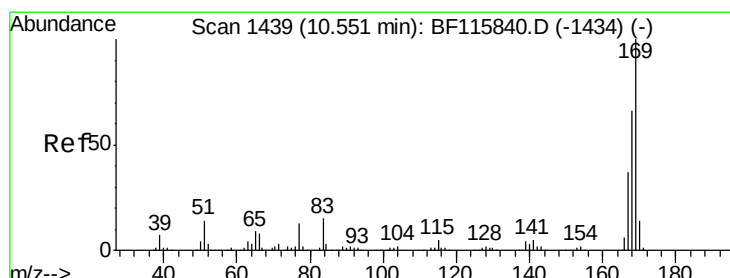
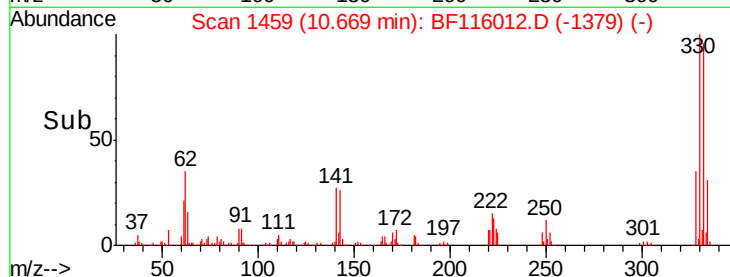
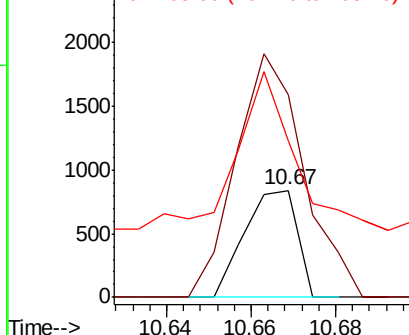
Tot Ion:	198	Resp:	728
Ion	Ratio	Lower	Upper
198	100		
51	189.5	21.1	61.1#
105	147.1	24.5	64.5#

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E



#66

n-Nitrosodiphenylamine

Concen: 0.235 ng

RT: 10.53 min Scan# 1436

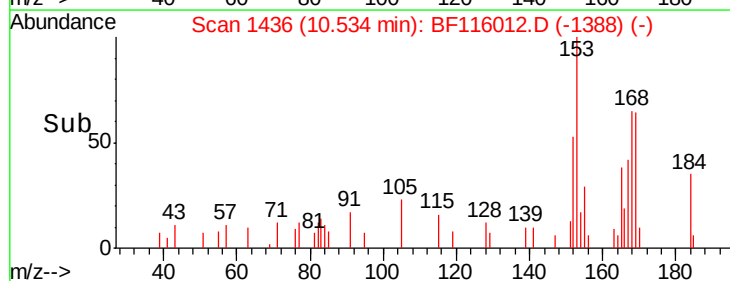
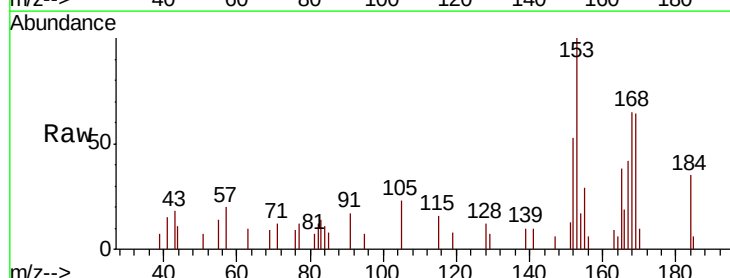
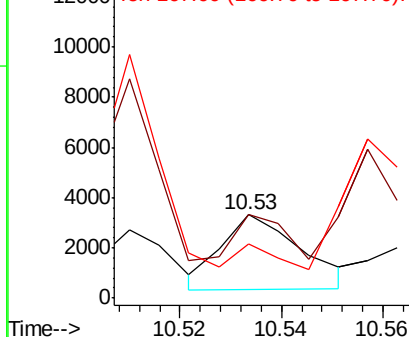
Delta R.T. -0.02 min

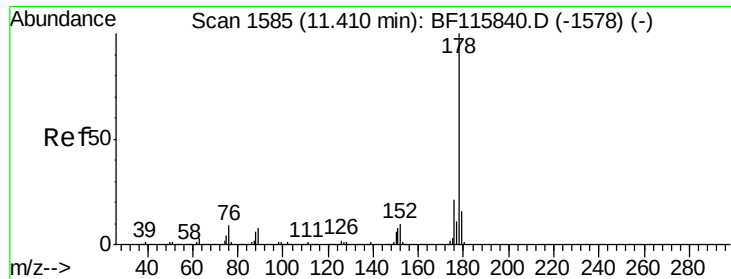
Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion:	169	Resp:	3221
Ion	Ratio	Lower	Upper
169	100		
168	100.8	53.0	79.6#
167	65.9	29.9	44.9#

Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E





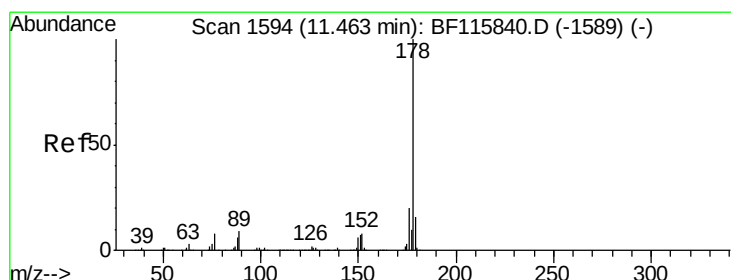
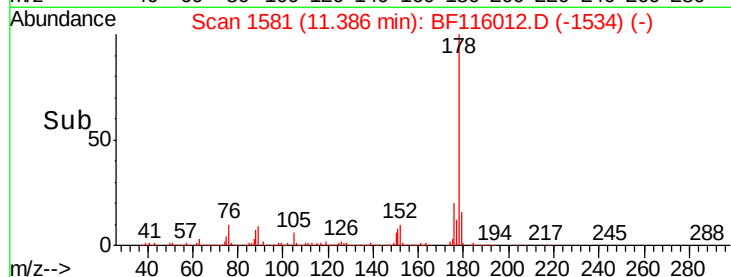
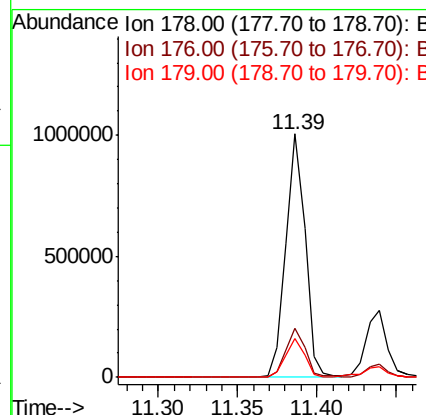
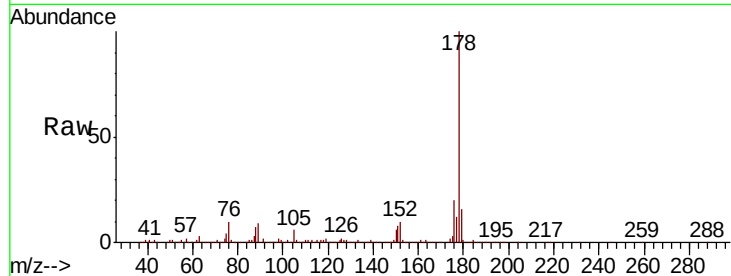
#71
Phenanthrene
Concen: 36.783 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.5	24.7
179	16.1	12.6	18.8

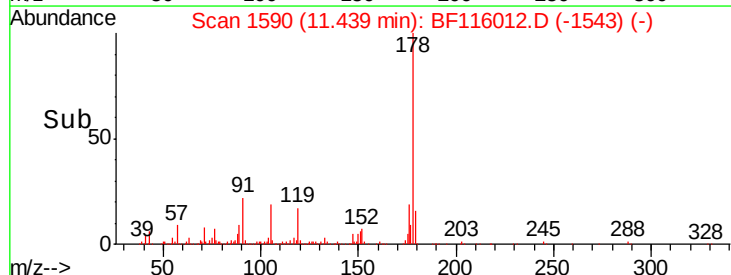
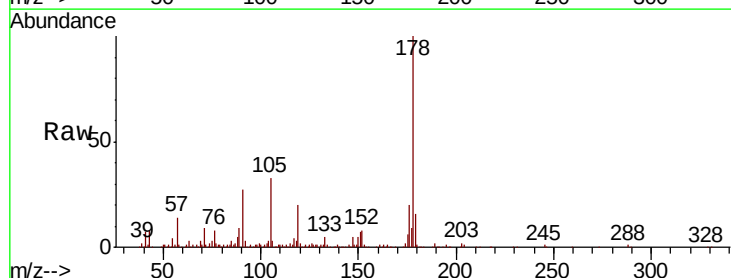
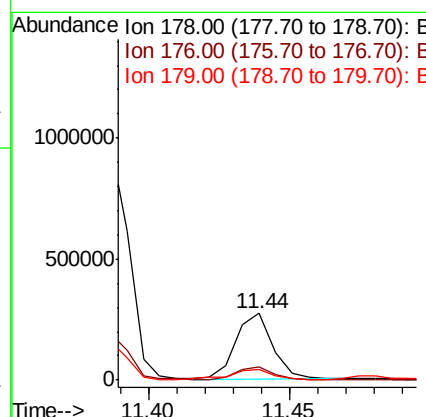
Manual Integrations
APPROVED

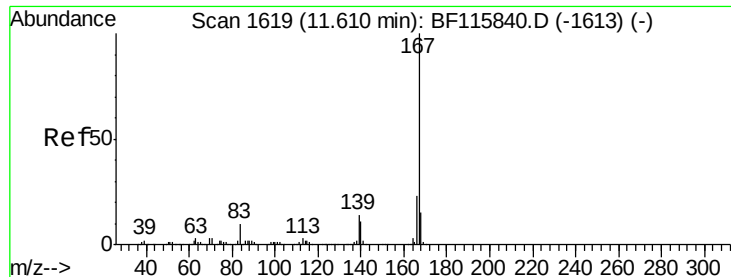
mohammad
8/7/2019 4:41:55 PM



#72
Anthracene
Concen: 10.408 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.02 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	16.1	12.4	18.6





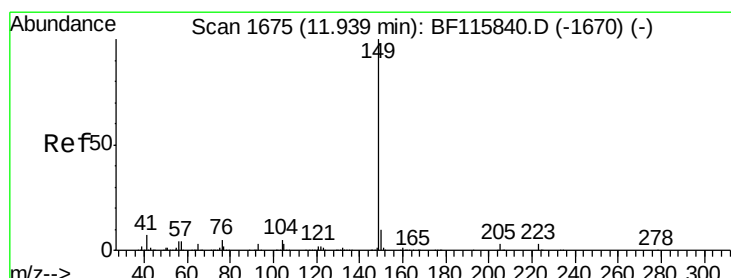
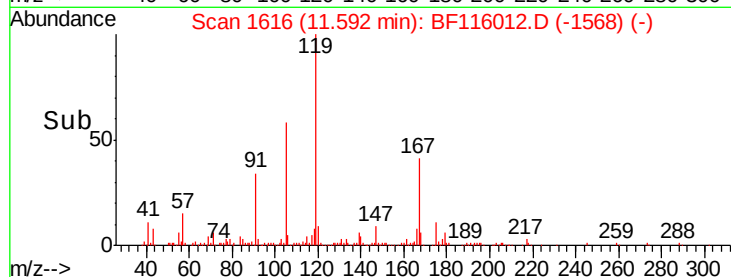
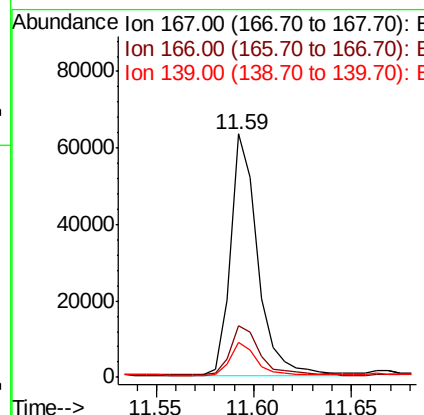
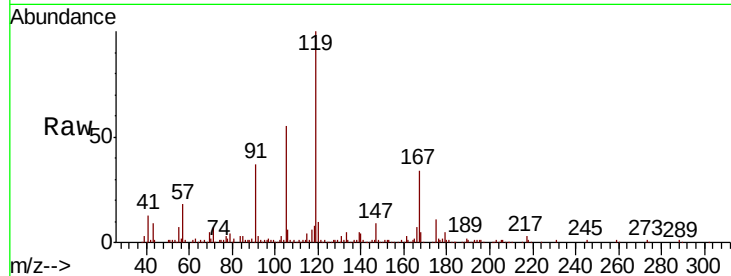
#73
 Carbazole
 Concen: 2.874 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. -0.02 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Instrument :
 BNA_F
 ClientSampleId :
 1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	18.0	27.0
139	14.6	11.4	17.2

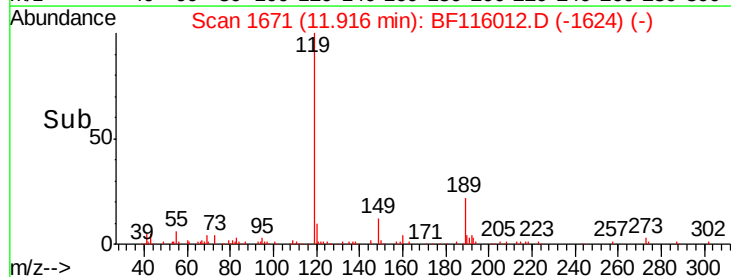
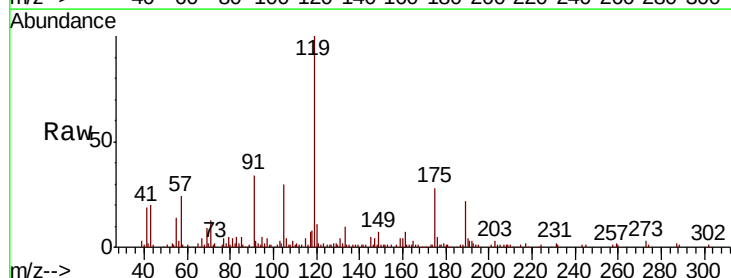
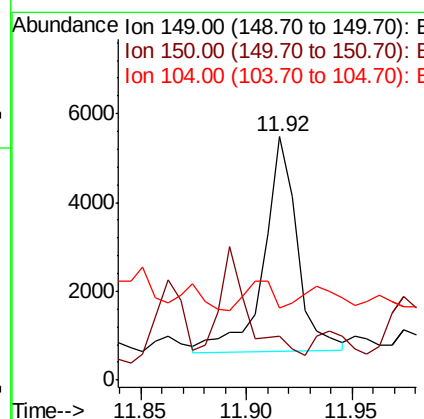
Manual Integrations
 APPROVED

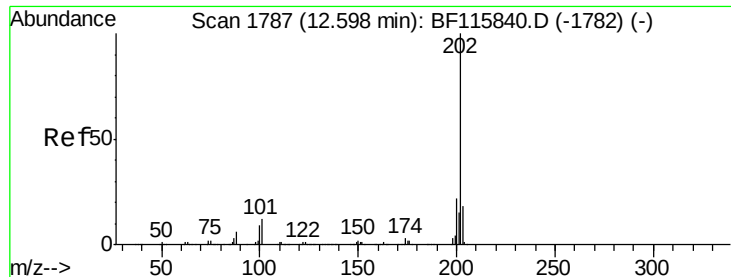
mohammad
 8/7/2019 4:41:55 PM



#74
 Di-n-butylphthalate
 Concen: 0.213 ng
 RT: 11.92 min Scan# 1671
 Delta R.T. -0.02 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
149	100		
150	17.9	7.7	11.5#
104	29.7	4.3	6.5#





#75

Fluoranthene

Concen: 46.357 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.02 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

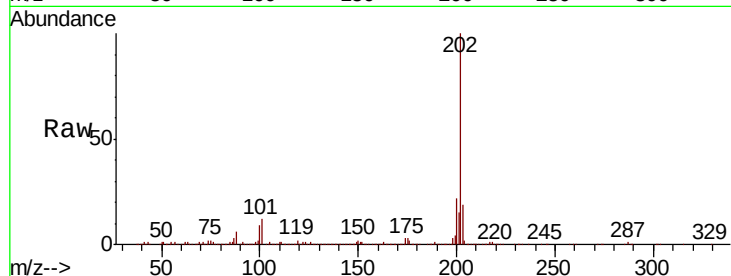
ClientSampleId :

1S-B1-B4-COMP-(30)

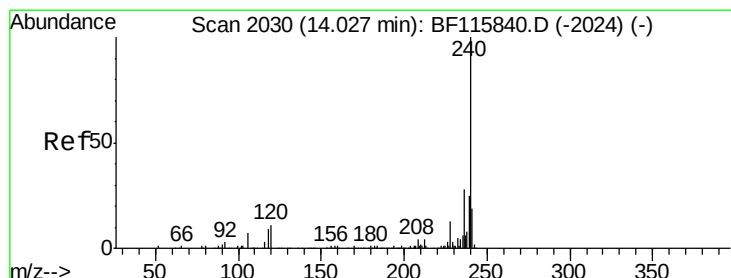
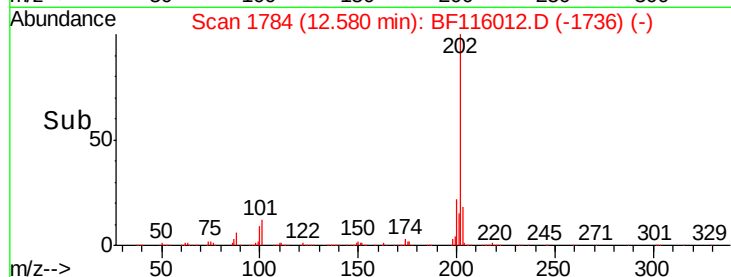
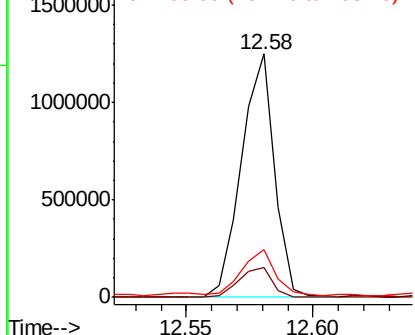
Tot Ion:	202	Resp:	1131734
Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	31.5
203	19.4	0.0	37.9

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



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



#76

Chrysene-d12

Concen: 20.000 ng

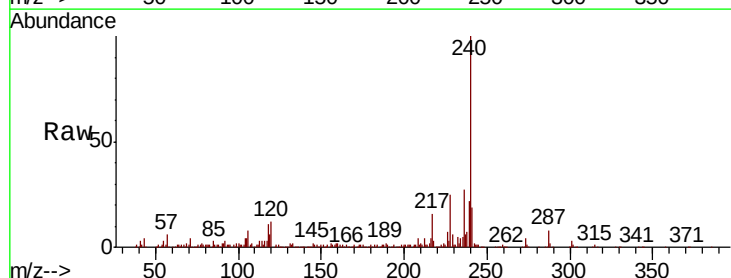
RT: 14.00 min Scan# 2026

Delta R.T. -0.02 min

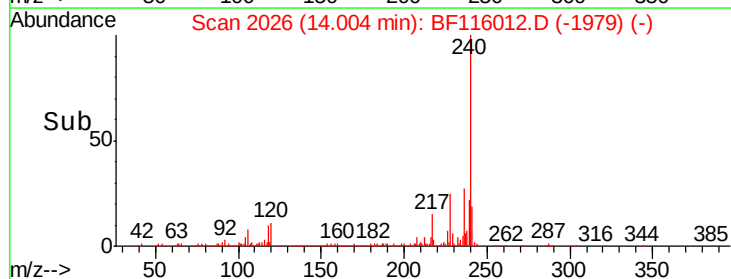
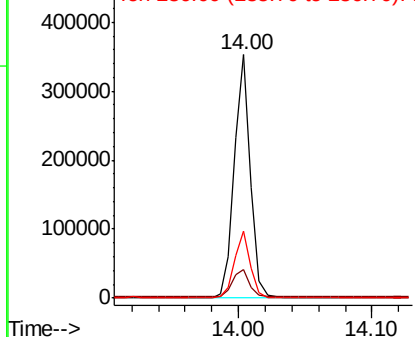
Lab File: BF116012.D

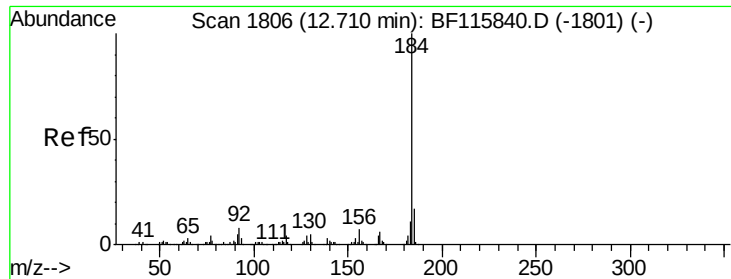
Acq: 6 Aug 2019 14:49

Tgt Ion:	240	Resp:	299886
Ion	Ratio	Lower	Upper
240	100		
120	11.7	8.5	12.7
236	27.4	22.2	33.2



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





#77

Benzidine

Concen: 1.913 ng

RT: 12.95 min Scan# 1846

Delta R.T. 0.24 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

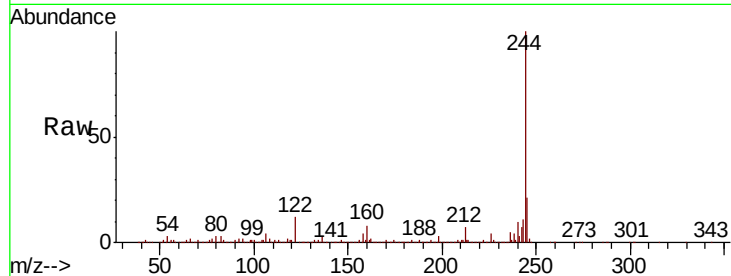
ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion:	184	Resp:	19386
Ion Ratio	Lower	Upper	
184	100		
185	18.5	13.4	20.2
183	10.0	9.1	13.7

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM

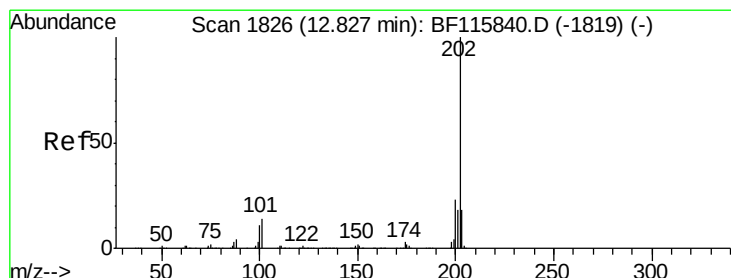
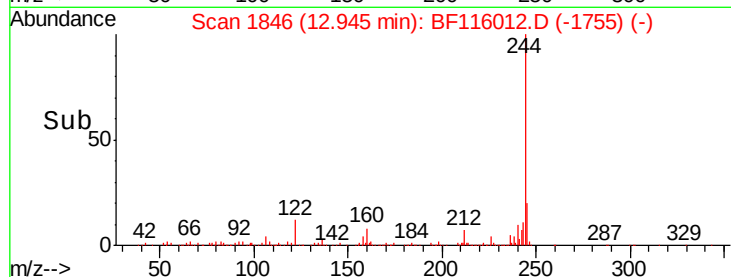
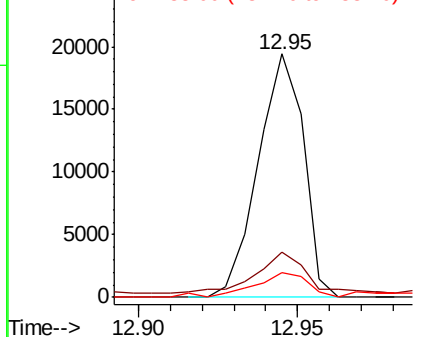


Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 41.824 ng

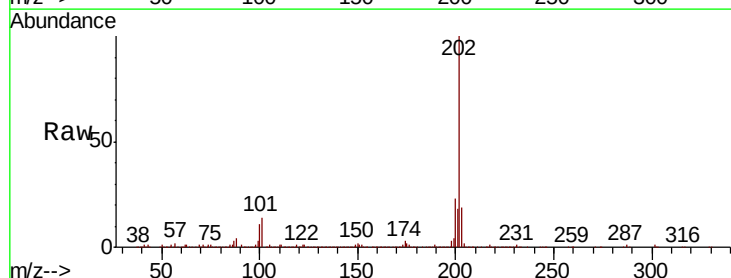
RT: 12.81 min Scan# 1823

Delta R.T. -0.02 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion:	202	Resp:	945473
Ion Ratio	Lower	Upper	
202	100		
200	22.9	18.2	27.2
203	19.0	14.3	21.5

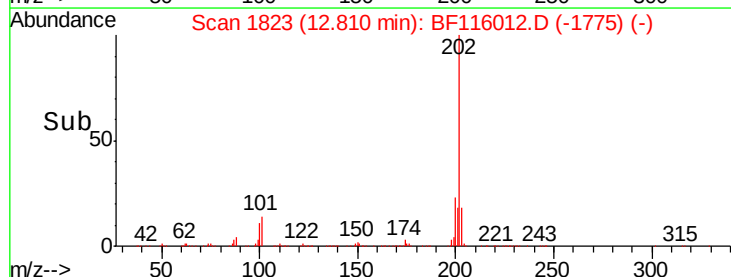
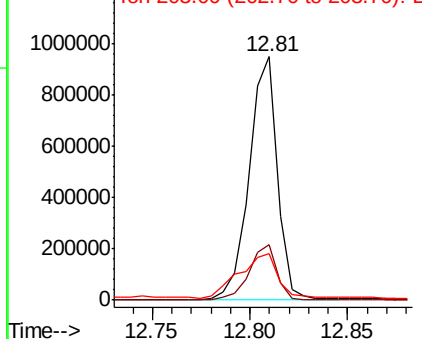


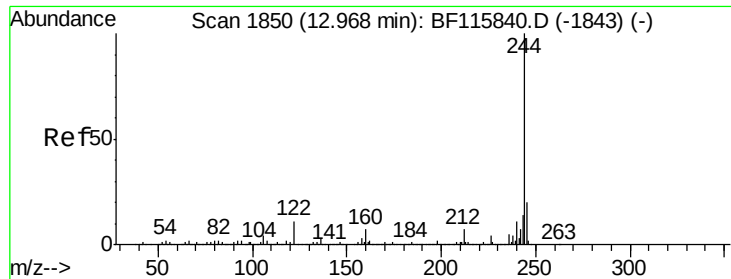
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 97.524 ng

RT: 12.95 min Scan# 1846

Delta R.T. -0.02 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

ClientSampleId :

1S-B1-B4-COMP-(30)

Tot Ion:244 Resp: 1387928

Ion Ratio Lower Upper

244 100

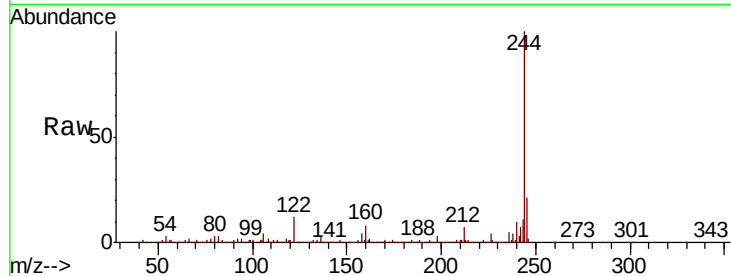
212 7.1 5.6 8.4

122 12.4 8.6 13.0

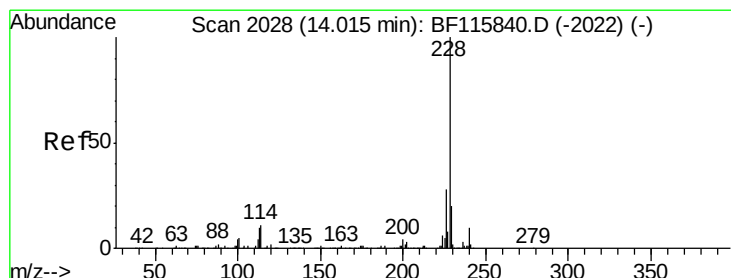
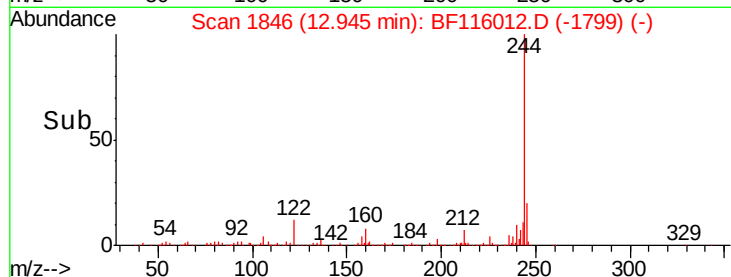
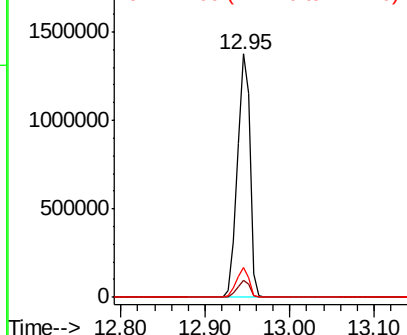
Manual Integrations
APPROVED

mohammad

8/7/2019 4:41:55 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 25.204 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

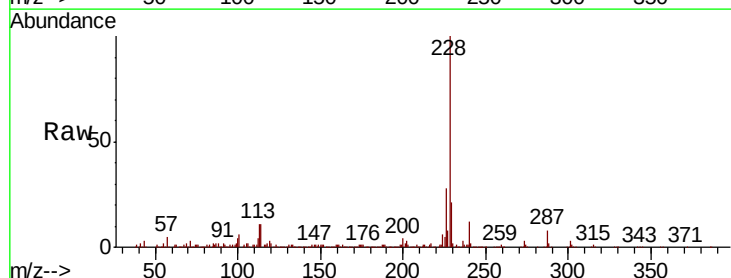
Tgt Ion:228 Resp: 483102

Ion Ratio Lower Upper

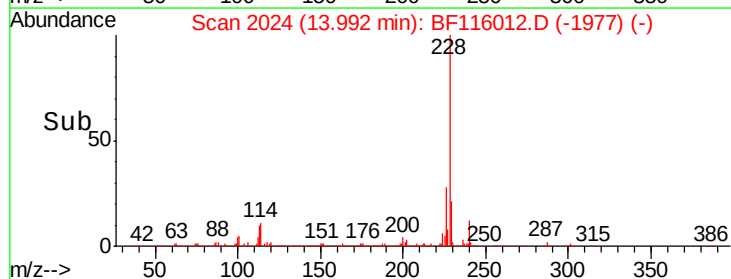
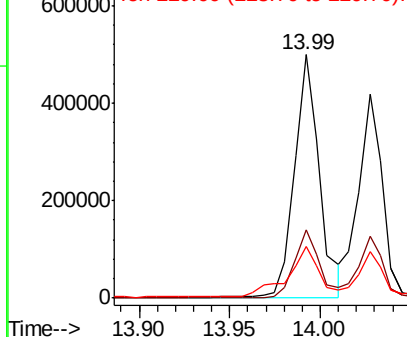
228 100

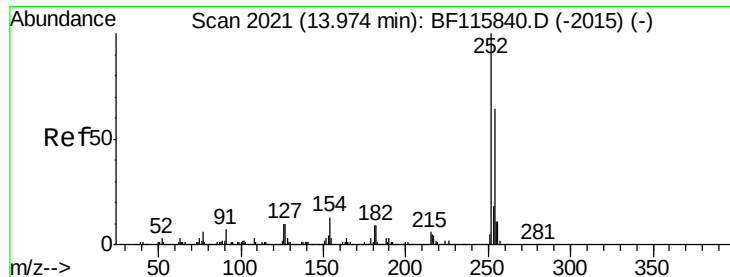
226 27.9 22.5 33.7

229 21.1 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





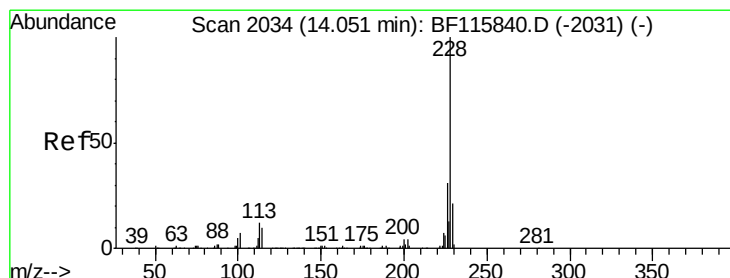
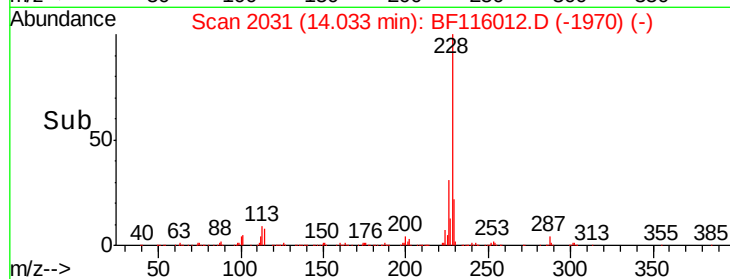
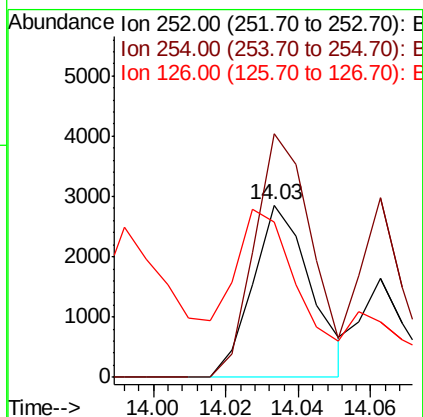
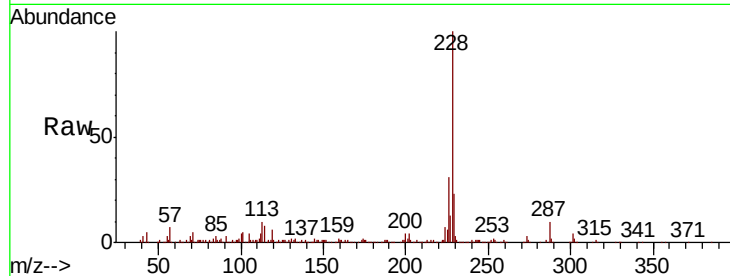
#82
 3,3'-Dichlorobenzidine
 Concen: 0.479 ng
 RT: 14.03 min Scan# 2031
 Delta R.T. 0.06 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Instrument :
 BNA_F
 ClientSampleId :
 1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
252	100		
254	141.5	51.2	76.8#
126	90.6	8.1	12.1#

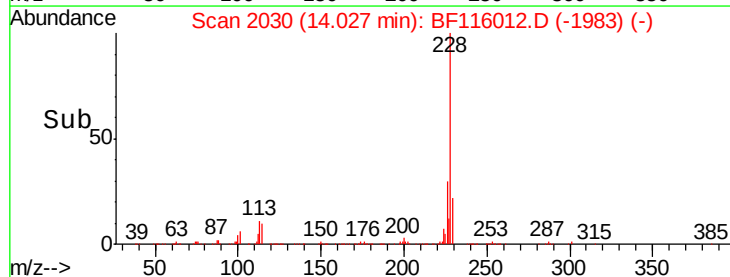
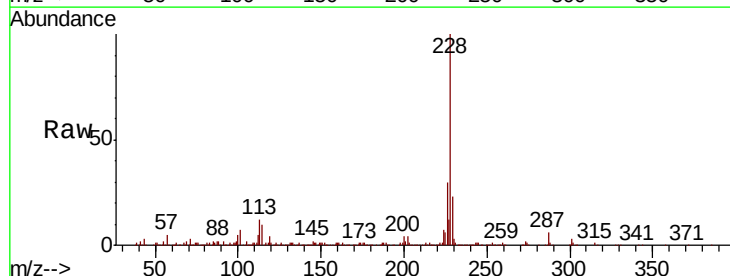
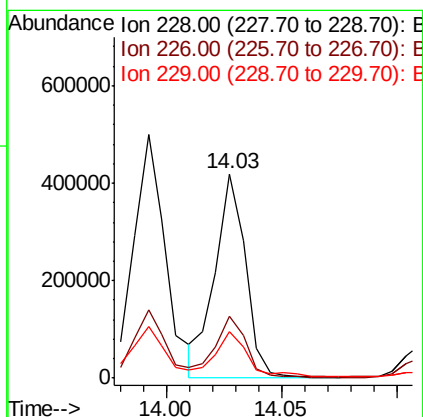
Manual Integrations
 APPROVED

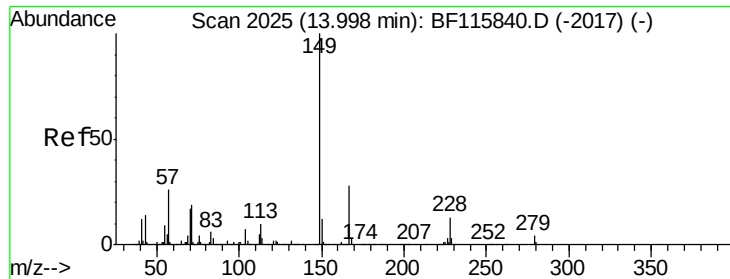
mohammad
 8/7/2019 4:41:55 PM



#83
 Chrysene
 Concen: 20.725 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. -0.02 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.8	37.2
229	22.8	16.4	24.6





#84

Bis(2-ethylhexyl)phthalate

Concen: 0.654 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

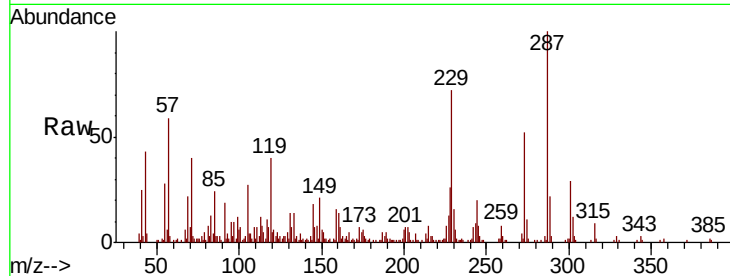
ClientSampleId :

1S-B1-B4-COMP-(30)

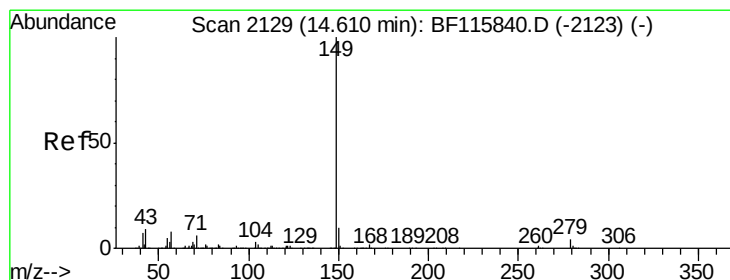
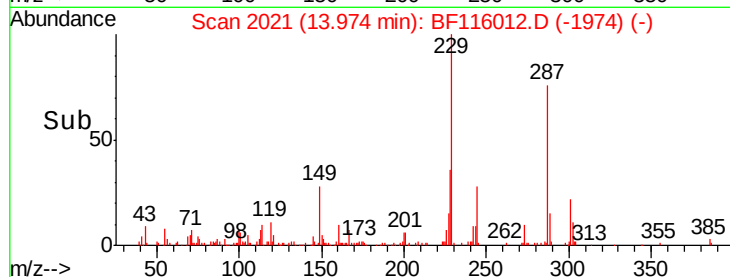
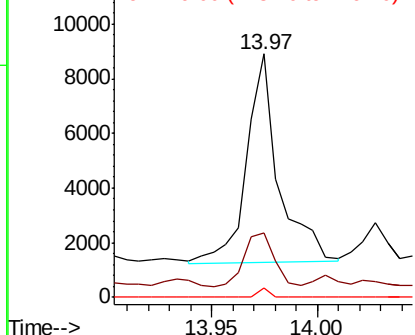
Tot Ion:	149	Resp:	8127
Ion Ratio	Lower	Upper	
149	100		
167	26.6	22.4	33.6
279	4.0	3.3	4.9

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 0.026 ng

RT: 14.58 min Scan# 2124

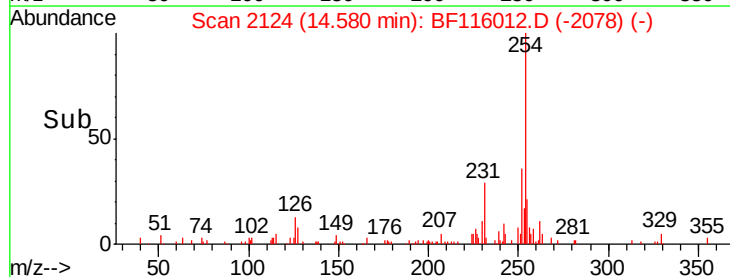
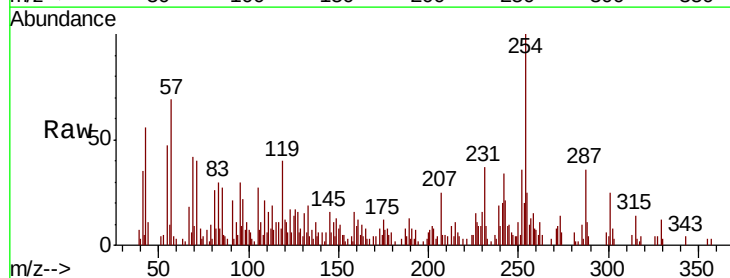
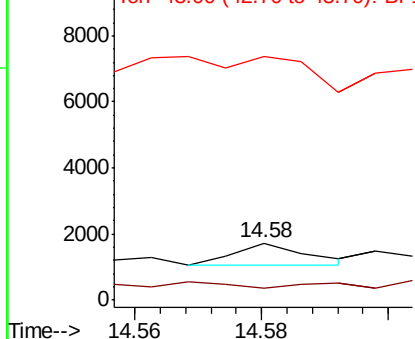
Delta R.T. -0.03 min

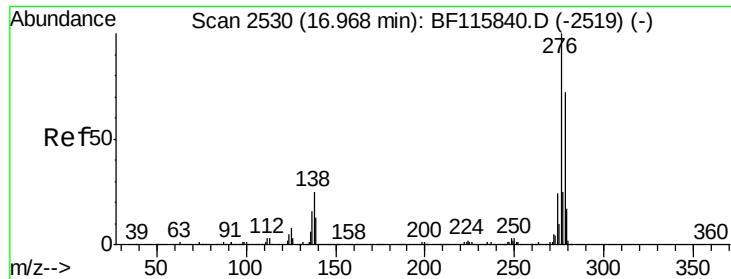
Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion:	149	Resp:	513
Ion Ratio	Lower	Upper	
149	100		
167	0.0	1.2	1.8#
43	0.0	7.4	11.0#

Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 43.00 (42.70 to 43.70): BF1





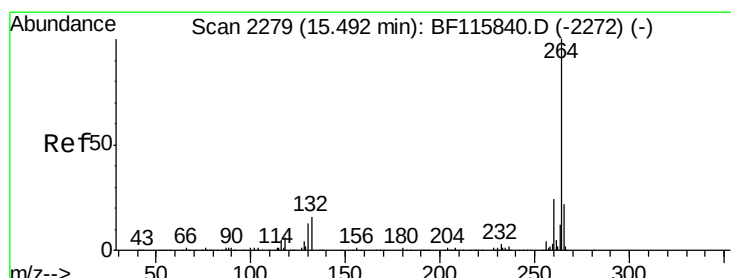
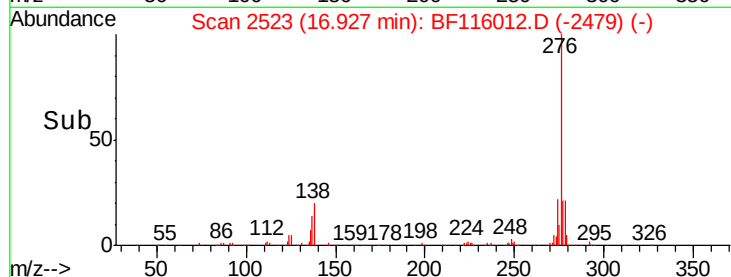
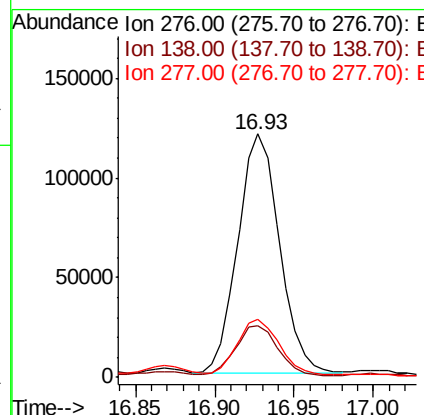
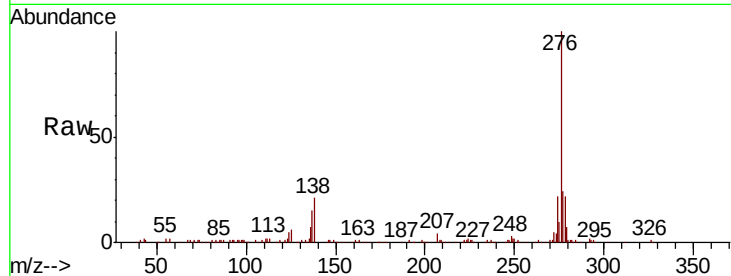
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 14.066 ng
 RT: 16.93 min Scan# 2523
 Delta R.T. -0.04 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Instrument :
 BNA_F
 ClientSampleId :
 1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.9	19.6	29.4
277	23.1	20.1	30.1

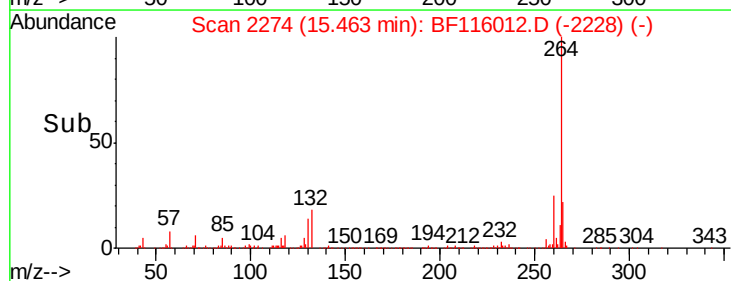
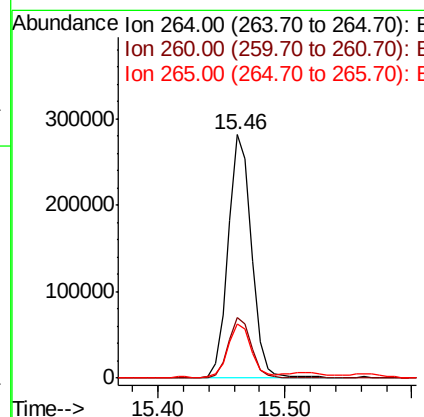
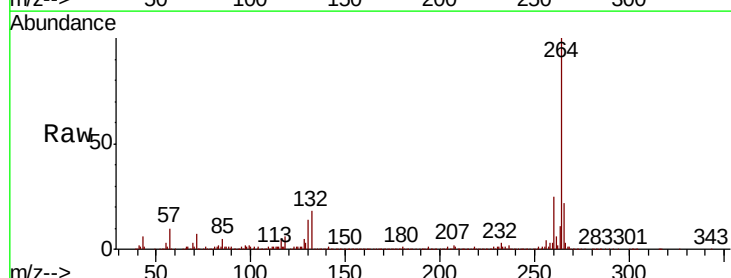
Manual Integrations
 APPROVED

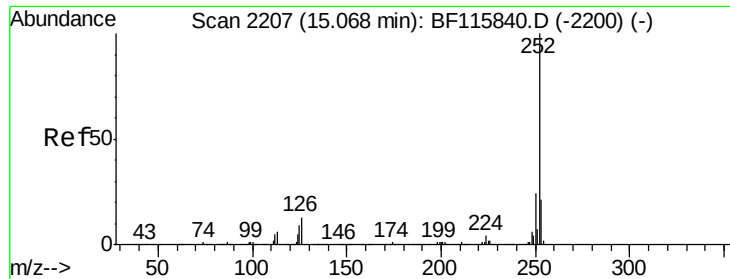
mohammad
 8/7/2019 4:41:55 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. -0.03 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.4	29.2
265	22.4	17.5	26.3





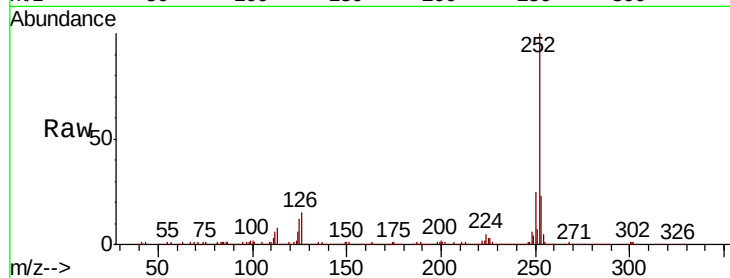
#88
Benzo(b)fluoranthene
Concen: 22.982 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.03 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Instrument :
BNA_F
ClientSampleId :
1S-B1-B4-COMP-(30)

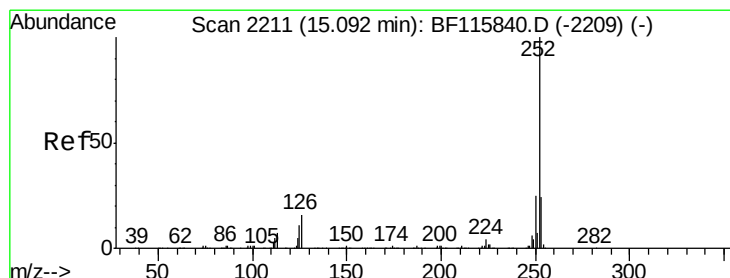
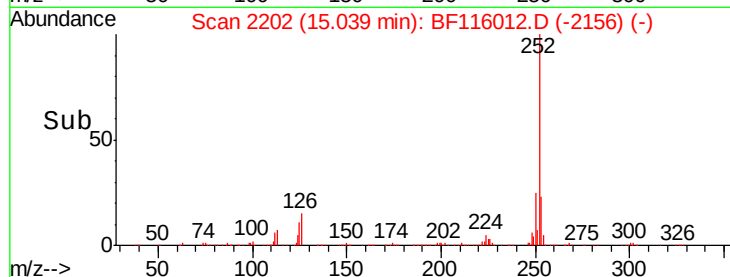
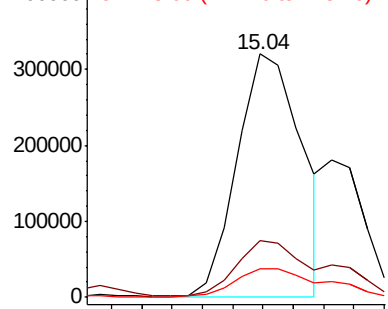
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.2	25.8
125	11.8	7.4	11.0

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



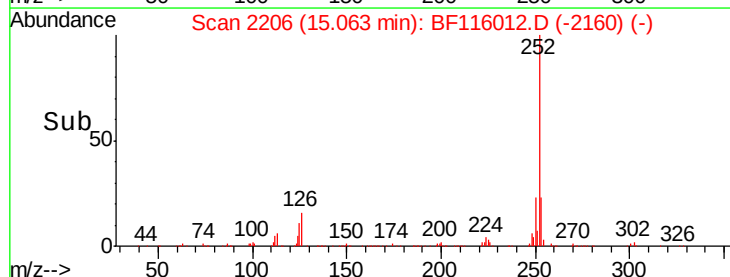
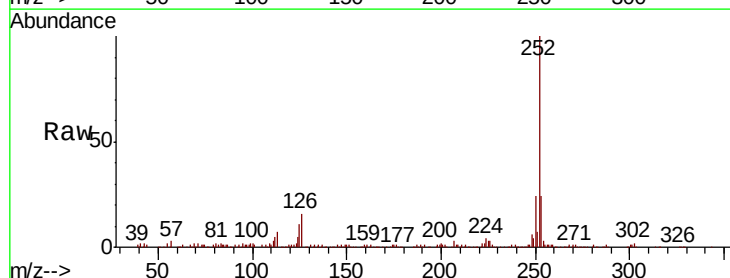
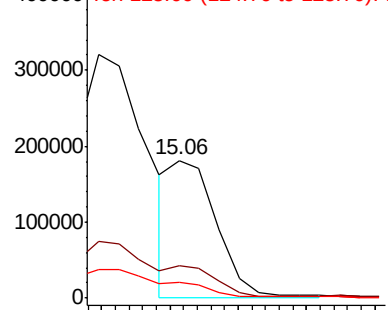
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

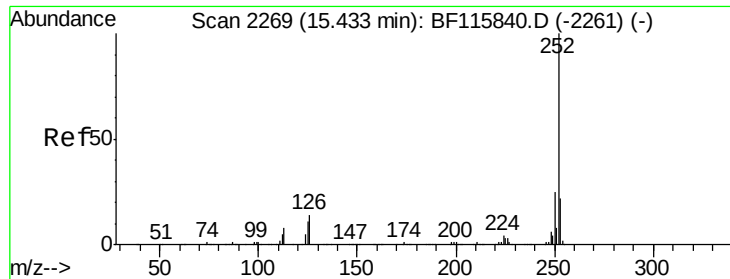


#89
Benzo(k)fluoranthene
Concen: 8.533 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.03 min
Lab File: BF116012.D
Acq: 6 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.2	27.4
125	11.4	8.9	13.3

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





#90

Benzo(a)pyrene

Concen: 18.937 ng

RT: 15.40 min Scan# 2264

Delta R.T. -0.03 min

Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Instrument :

BNA_F

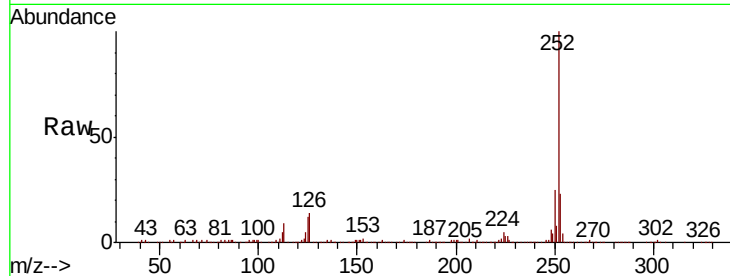
ClientSampleId :

1S-B1-B4-COMP-(30)

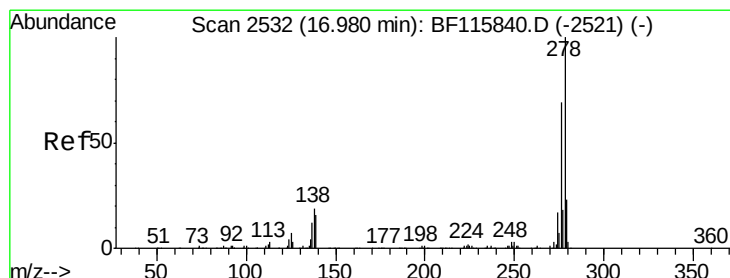
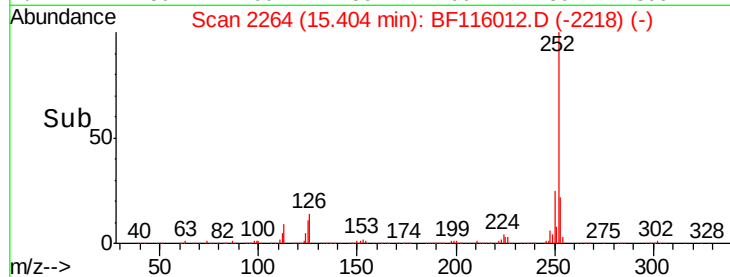
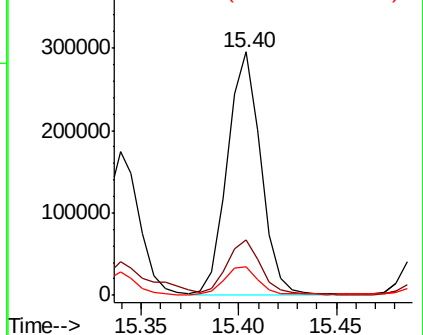
Tot Ion:	252	Resp:	349508
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.8	26.6
125	11.6	8.8	13.2

Manual Integrations
APPROVED

mohammad
8/7/2019 4:41:55 PM



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



#91

Dibenzo(a,h)anthracene

Concen: 3.555 ng m

RT: 16.93 min Scan# 2523

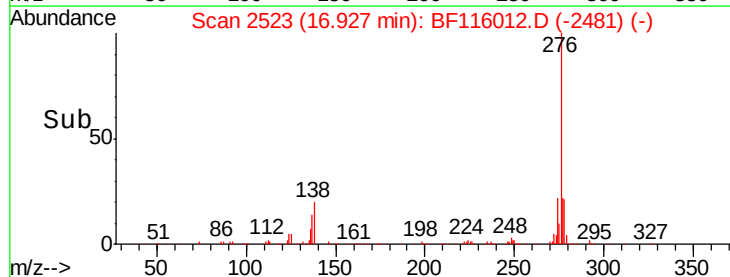
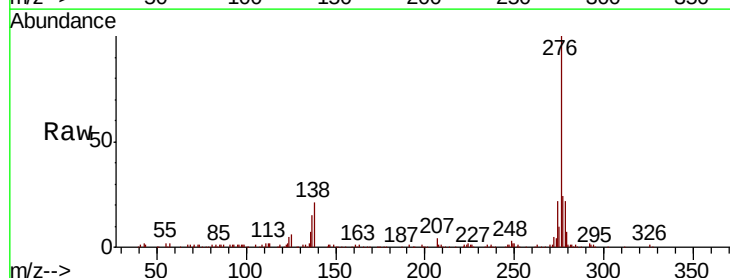
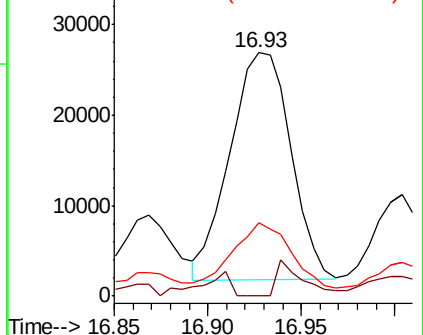
Delta R.T. -0.05 min

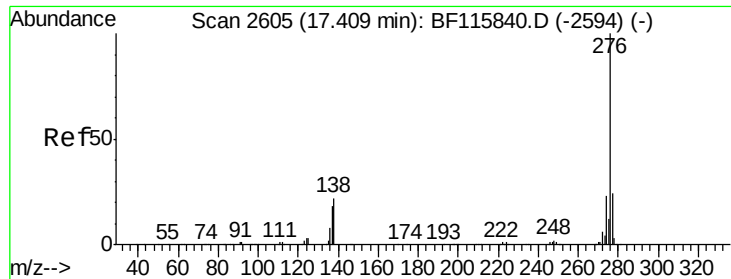
Lab File: BF116012.D

Acq: 6 Aug 2019 14:49

Tgt Ion:	278	Resp:	56795
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.6	19.0#
279	30.0	18.8	28.2#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 12.538 ng
 RT: 17.37 min Scan# 2598
 Delta R.T. -0.04 min
 Lab File: BF116012.D
 Acq: 6 Aug 2019 14:49

Instrument :
 BNA_F
 ClientSampleId :
 1S-B1-B4-COMP-(30)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.5	29.3
138	22.5	17.8	26.8

Manual Integrations
 APPROVED

mohammad
 8/7/2019 4:41:55 PM

