

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120718\
 Data File : BF111202.D
 Acq On : 7 Dec 2018 22:17
 Operator : JU/SJ
 Sample : J6214-13 2X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1(0-2)

Manual Integrations
 APPROVED

Sohil
 12/11/2018 8:44:50 AM

Quant Time: Dec 08 02:58:19 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	6.80	152	516281	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	2003139	20.00	ng	0.00
39) Acenaphthene-d10	9.84	164	933128	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	1459971	20.00	ng	0.00
76) Chrysene-d12	13.96	240	1063305	20.00	ng	0.01
87) Perylene-d12	15.40	264	1118332	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	1575717	47.63	ng	0.00
7) Phenol-d6	6.43	99	2005059	47.05	ng	0.00
23) Nitrobenzene-d5	7.36	82	1210087	35.76	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	349784	47.16	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	1913945	28.39	ng	0.00
79) Terphenyl-d14	12.90	244	1325516	25.53	ng	0.00
Target Compounds						
10) Phenol	6.44	94	136450	2.936	ng	93
49) Acenaphthylene	9.70	152	168759	2.034	ng	# 92
50) Dimethylphthalate	9.55	163	239371	3.686	ng	99
52) Acenaphthene	9.87	154	189946	3.465	ng	98
55) Dibenzofuran	10.04	168	380191	5.036	ng	92
58) Fluorene	10.39	166	395735	7.433	ng	98
71) Phenanthrene	11.35	178	3744492	53.320	ng	100
72) Anthracene	11.40	178	1009586	14.262	ng	95
73) Carbazole	11.54	167	305612	4.149	ng	94
75) Fluoranthene	12.54	202	3719480	54.126	ng	98
78) Pyrene	12.76	202	3323417	40.119	ng	99
81) Benzo(a)anthracene	13.95	228	1709296	27.437	ng	99
83) Chrysene	13.99	228	1577716	25.510	ng	97
86) Indeno(1,2,3-cd)pyrene	16.80	276	675785	13.609	ng	# 90
88) Benzo(b)fluoranthene	14.99	252	2194742m	34.634	ng	
89) Benzo(k)fluoranthene	15.01	252	533180m	8.703	ng	
90) Benzo(a)pyrene	15.34	252	1420162	24.433	ng	97
91) Dibenzo(a,h)anthracene	16.82	278	168429m	3.453	ng	
92) Benzo(a,h,i)perylene	17.23	276	434666	8.868	ng	97

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

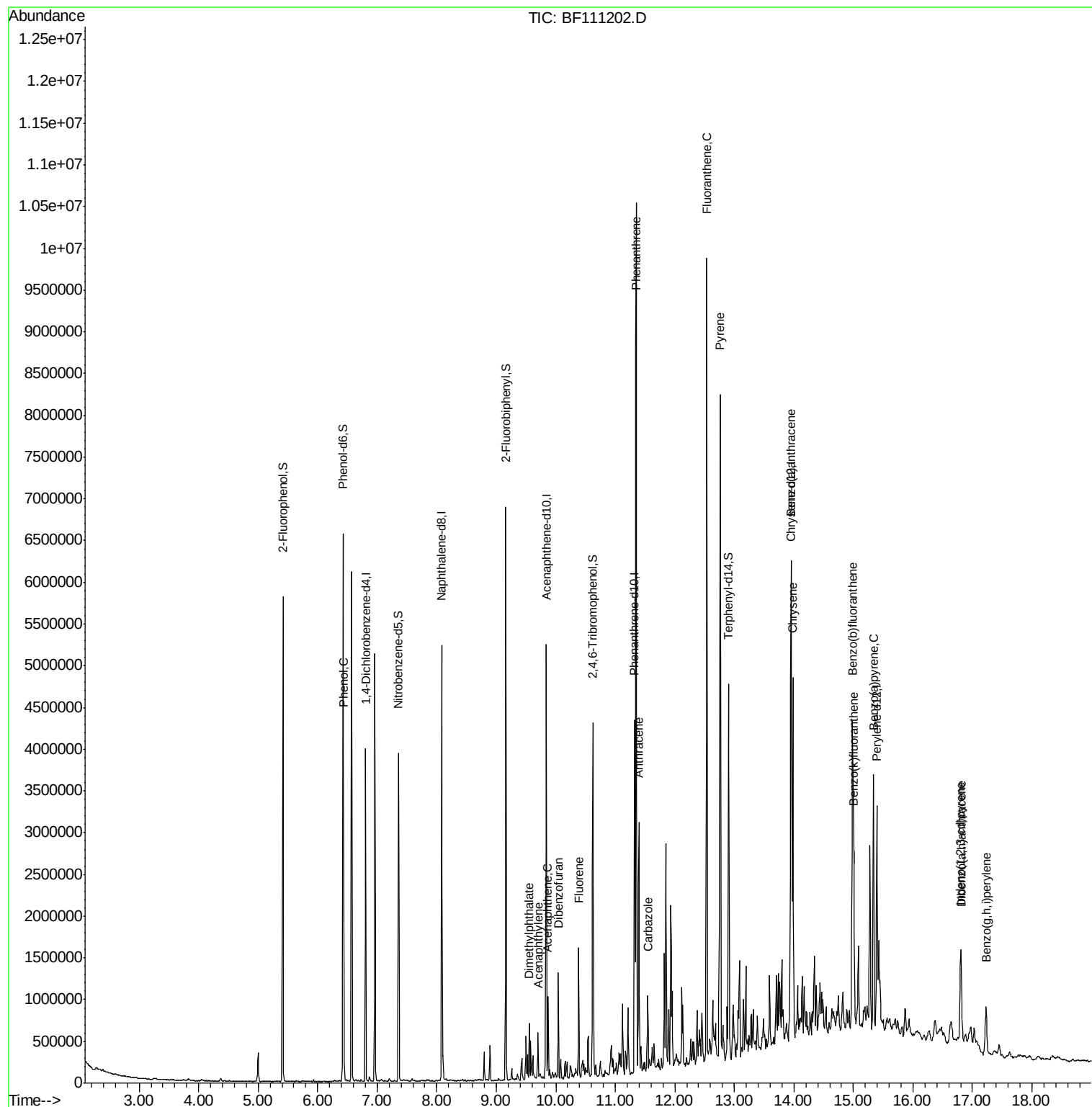
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120718\
Data File : BF111202.D
Acq On : 7 Dec 2018 22:17
Operator : JU/SJ
Sample : J6214-13 2X
Misc :
ALS Vial : 26 Sample Multiplier: 1

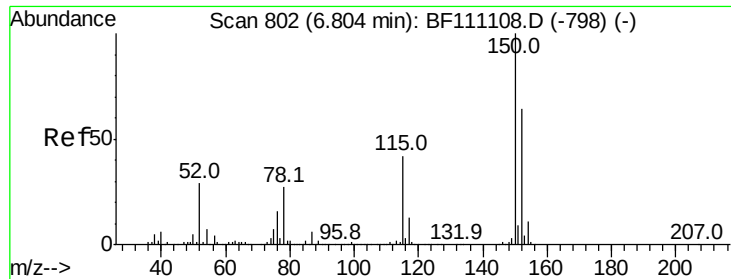
Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

Manual Integrations
APPROVED

Sohil
12/11/2018 8:44:50 AM

Quant Time: Dec 08 02:58:19 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

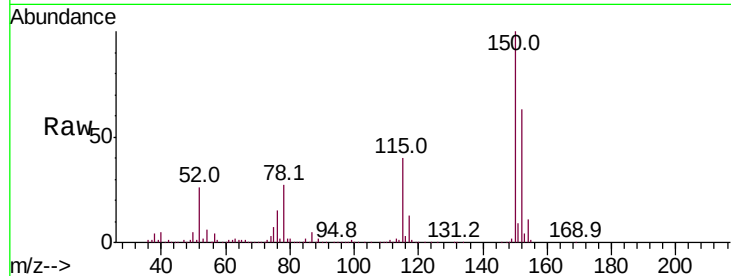
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampled :
SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.6	187.0
115	62.3	52.2	78.2

Manual Integrations
APPROVED

Sohil
12/11/2018 8:44:50 AM

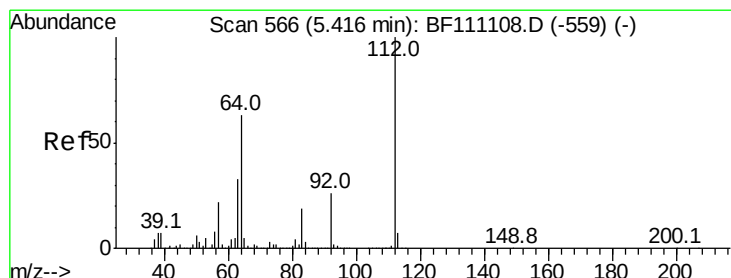
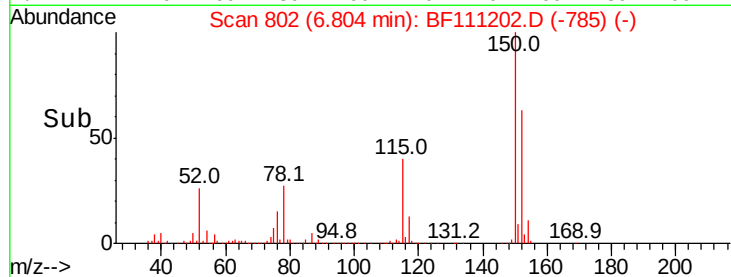
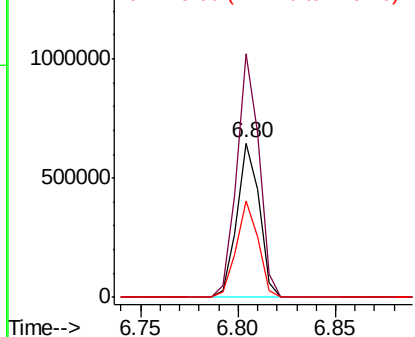


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

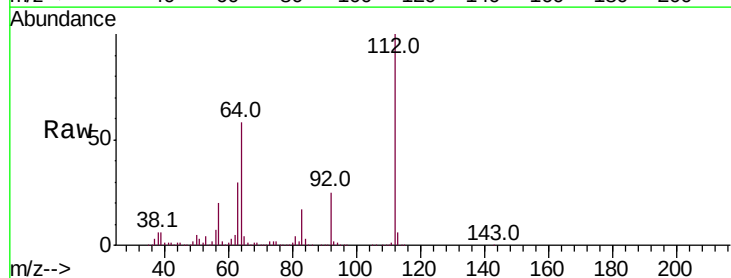
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 47.626 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.4	50.2	75.4
63	30.1	26.6	39.8

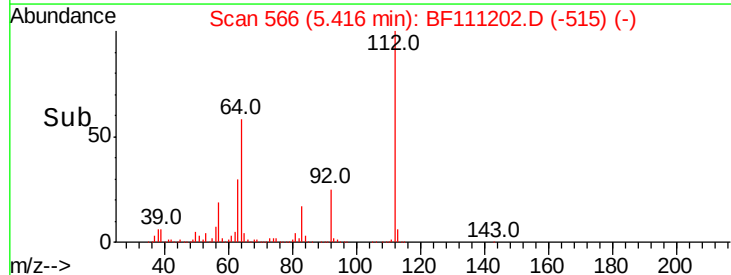
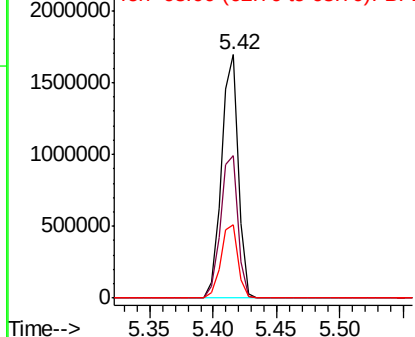


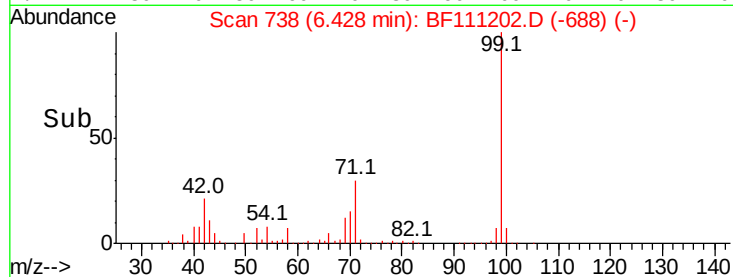
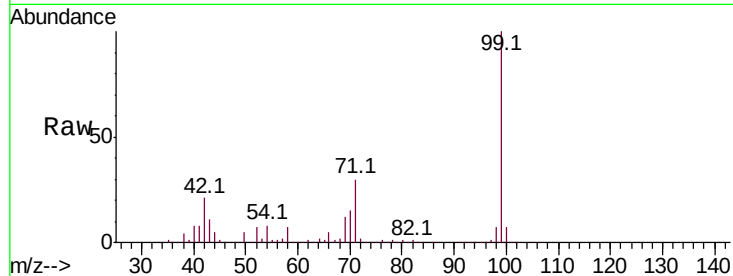
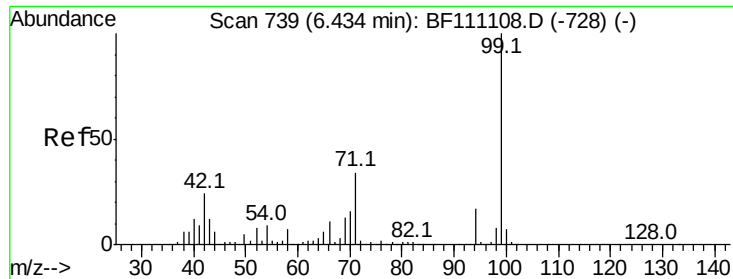
Abundance

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: 47.045 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

Tot Ion: 99 Resp: 2005059

Ion Ratio Lower Upper

99 100

42 21.5 19.3 28.9

71 30.5 27.4 41.2

Instrument :

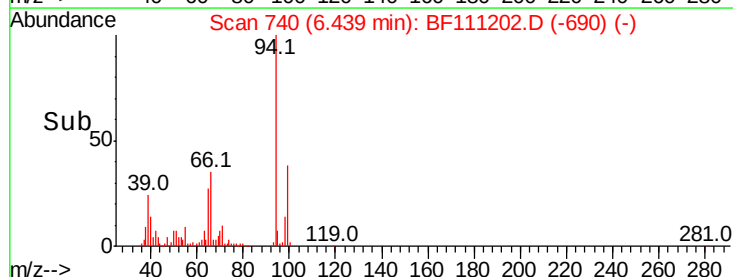
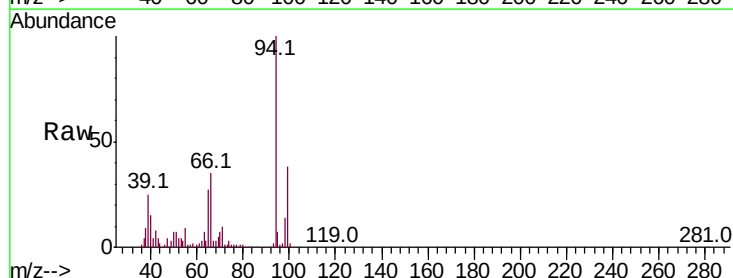
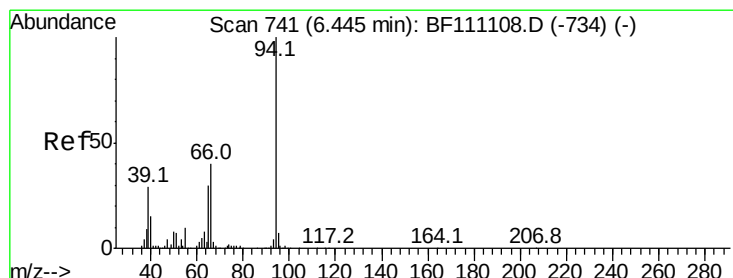
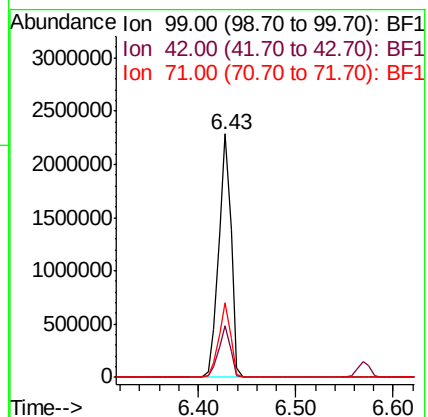
BNA_F

ClientSampleId :

SB-1(0-2)

Manual Integrations
APPROVED

Sohil
12/11/2018 8:44:50 AM



#10

Phenol

Concen: 2.936 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

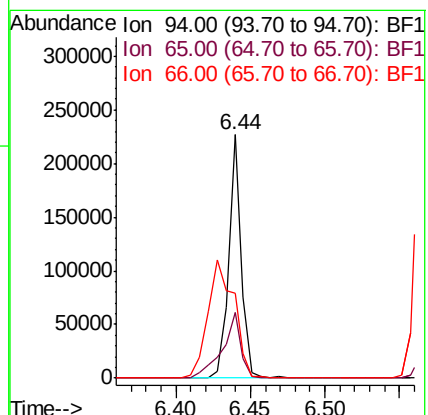
Tgt Ion: 94 Resp: 136450

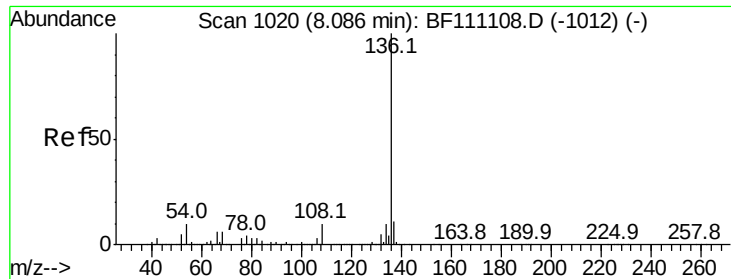
Ion Ratio Lower Upper

94 100

65 27.0 10.5 50.5

66 34.8 19.8 59.8





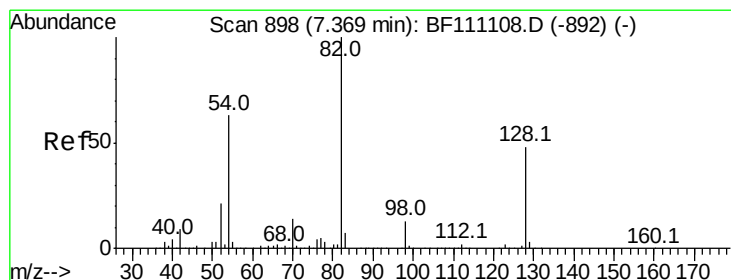
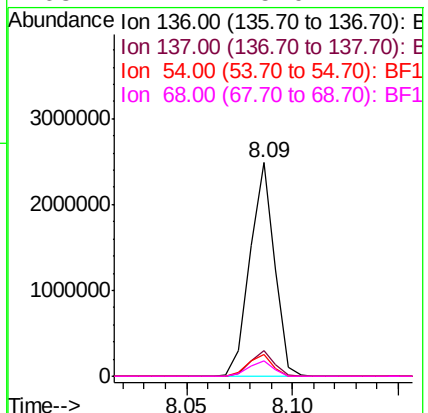
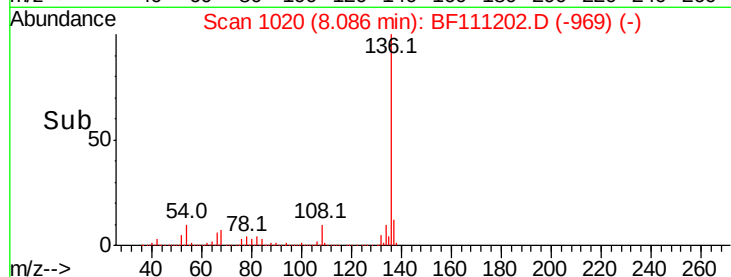
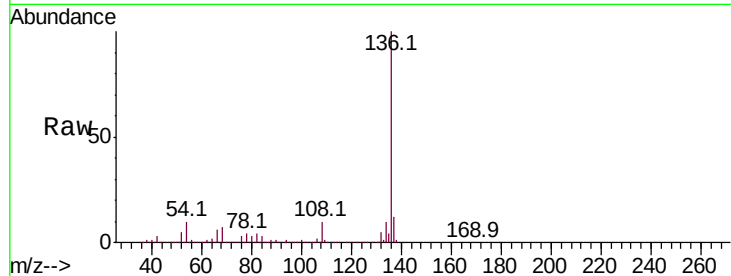
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.00 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.0	13.6
54	10.5	8.4	12.6
68	7.1	5.0	7.4

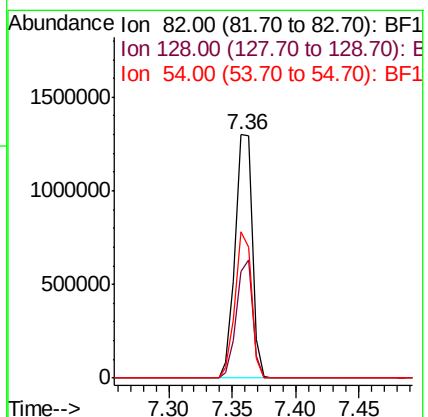
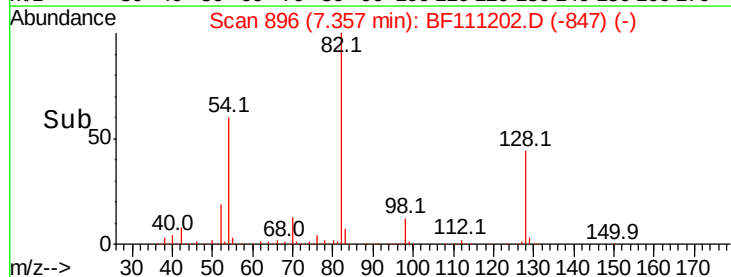
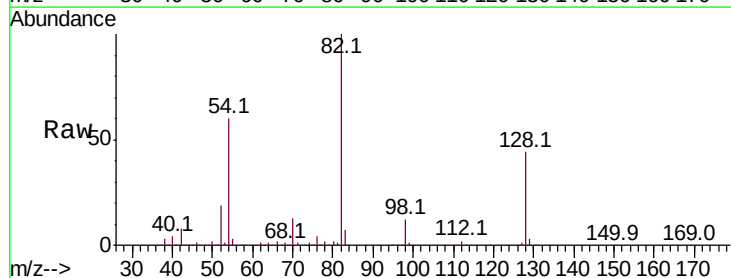
Manual Integrations
APPROVED

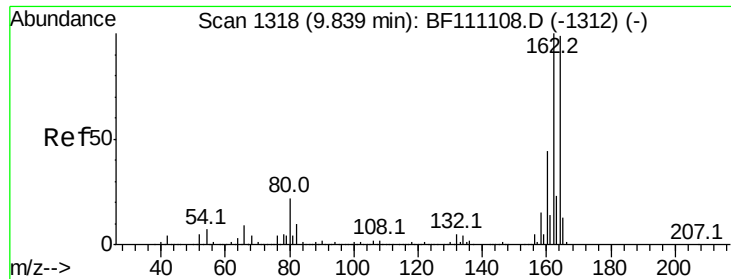
Sohil
12/11/2018 8:44:50 AM



#23
Nitrobenzene-d5
Concen: 35.765 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.9	38.1	57.1
54	60.1	50.3	75.5





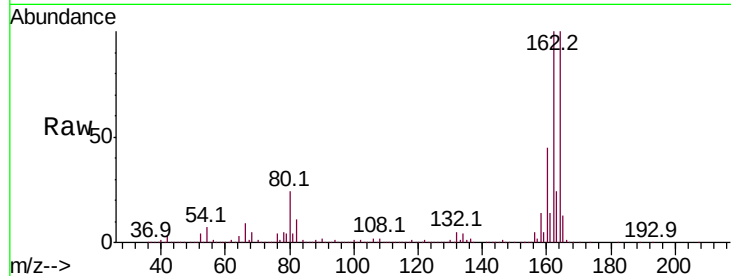
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

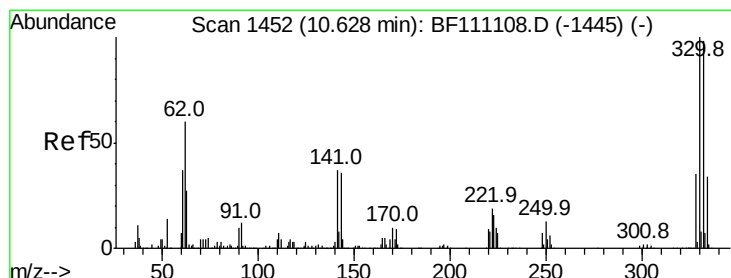
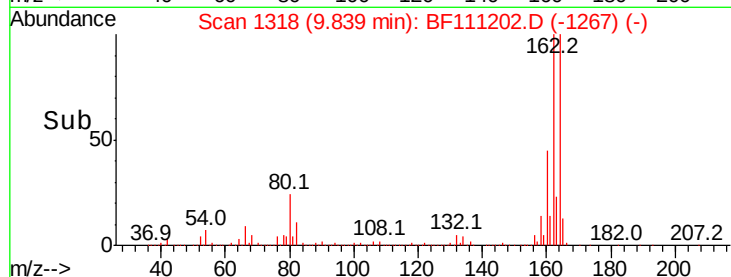
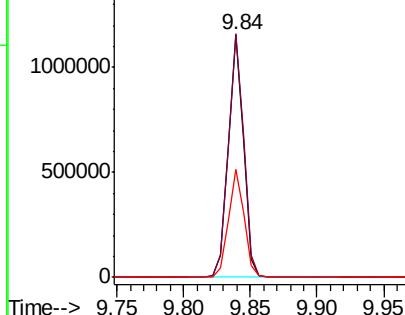
Tot Ion	Ratio	Resp	Lower	Upper
164	100	933128		
162	100.2	80.6	120.8	
160	44.6	35.5	53.3	

Manual Integrations
APPROVED

Sohil
12/11/2018 8:44:50 AM

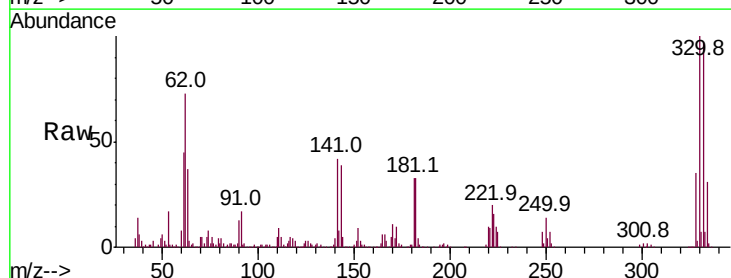


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

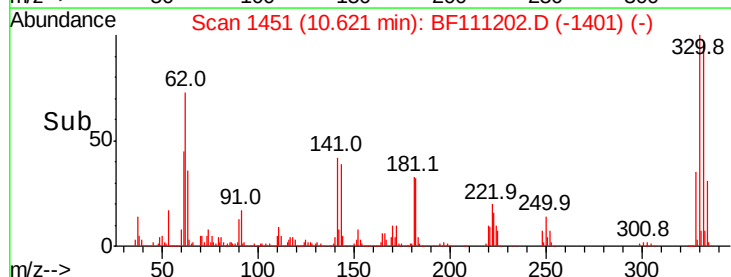
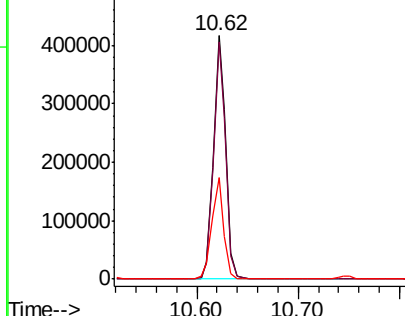


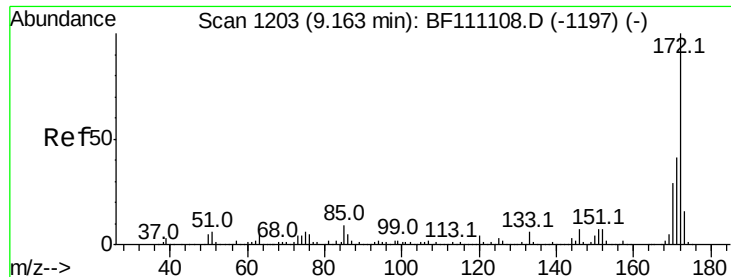
#42
2,4,6-Tribromophenol
Concen: 47.158 ng
RT: 10.62 min Scan# 1451
Delta R.T. -0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	349784		
332	95.9	77.2	115.8	
141	39.9	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





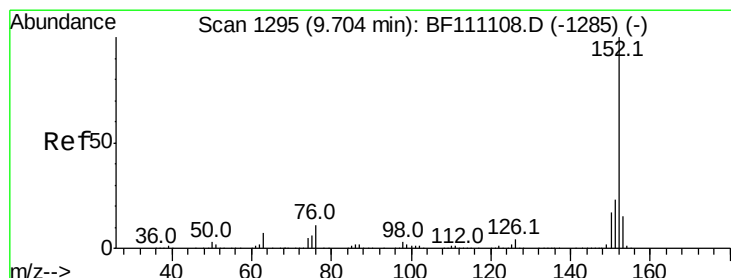
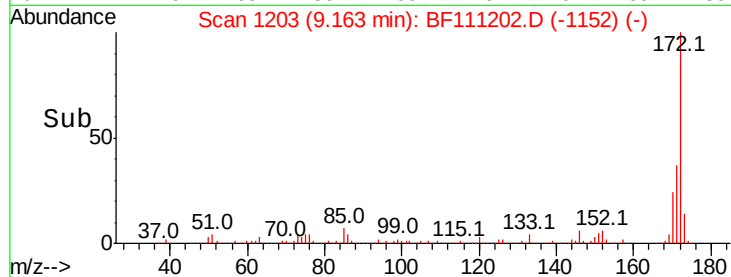
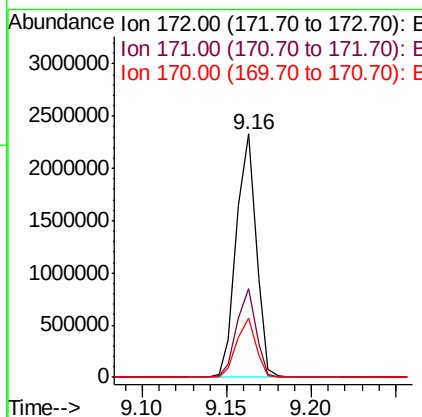
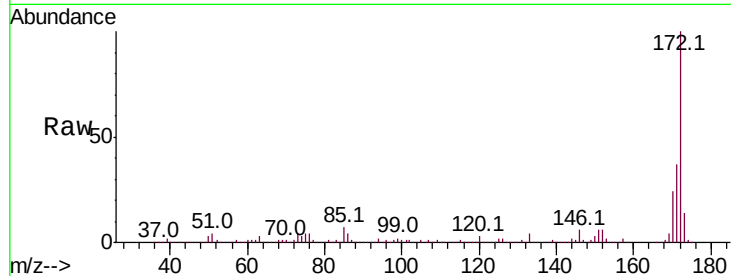
#45
2-Fluorobiphenyl
Concen: 28.395 ng
RT: 9.16 min Scan# 1203
Delta R.T. 0.00 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.5	33.2	49.8
170	24.3	22.9	34.3

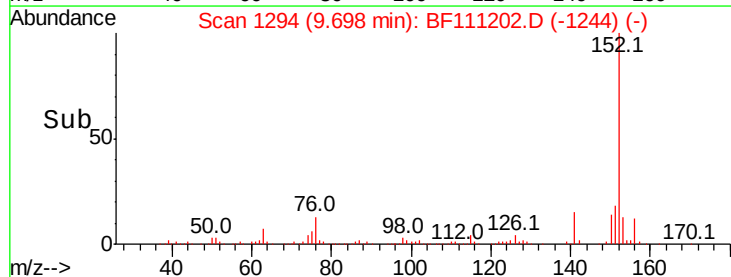
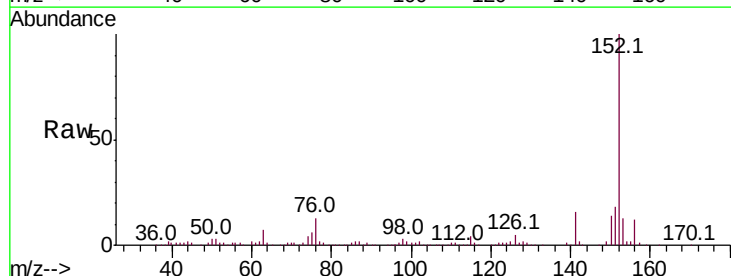
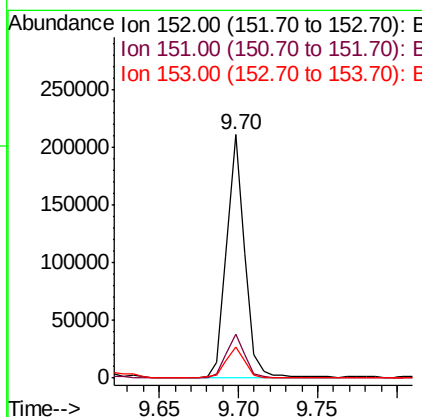
Manual Integrations
APPROVED

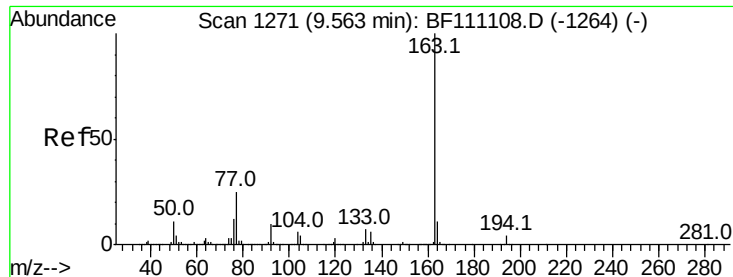
Sohil
12/11/2018 8:44:50 AM



#49
Acenaphthylene
Concen: 2.034 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.0	18.3	27.5#
153	12.9	11.8	17.8





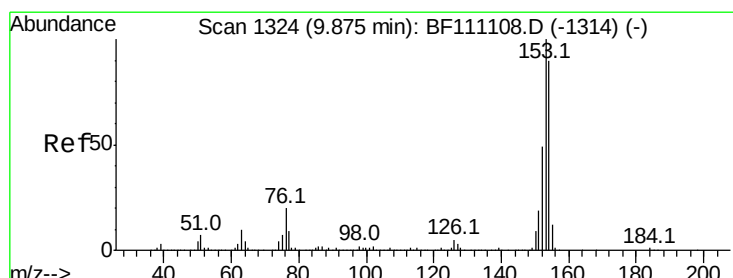
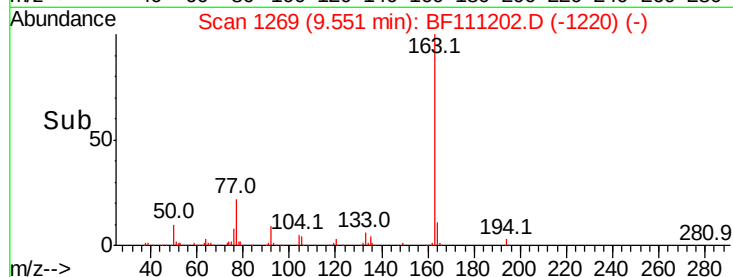
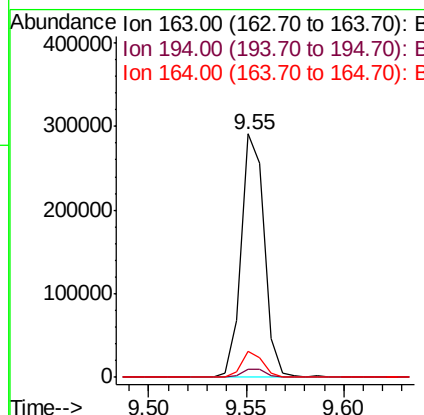
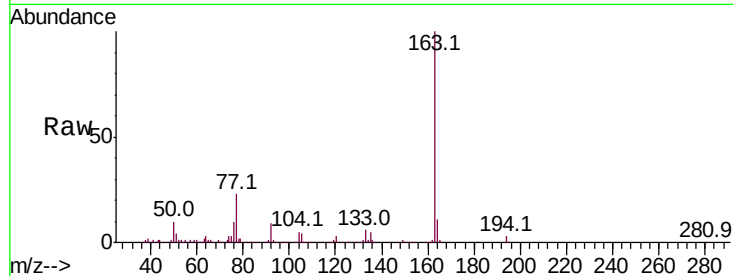
#50
Dimethylphthalate
Concen: 3.686 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.4	3.0	4.4	
164	10.6	8.9	13.3	

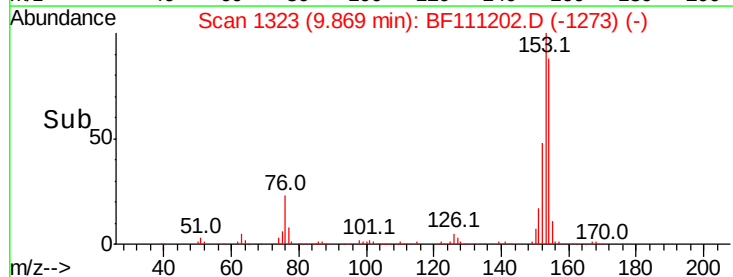
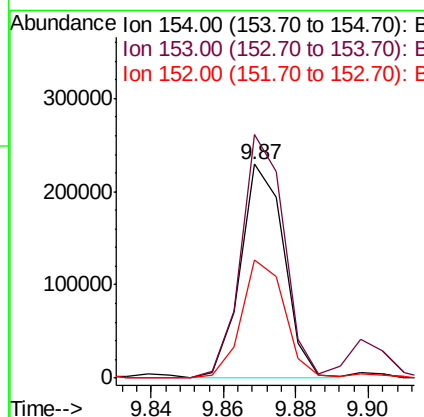
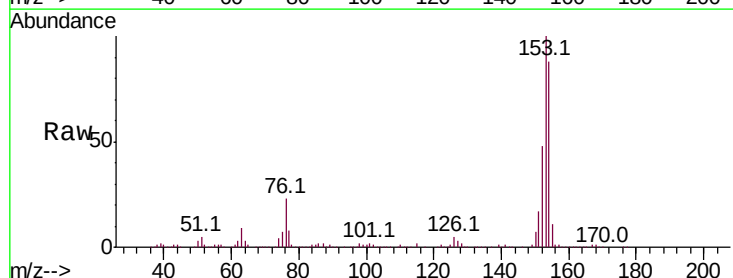
Manual Integrations
APPROVED

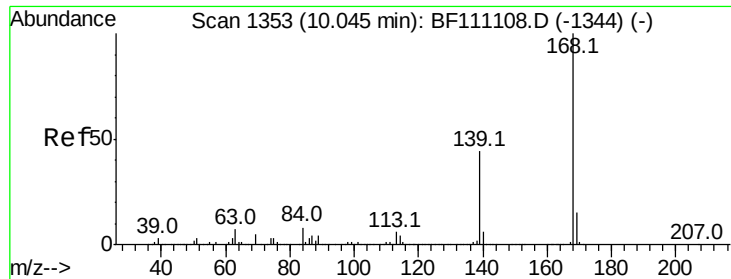
Sohil
12/11/2018 8:44:50 AM



#52
Acenaphthene
Concen: 3.465 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	113.7	88.7	133.1	
152	54.9	43.8	65.8	





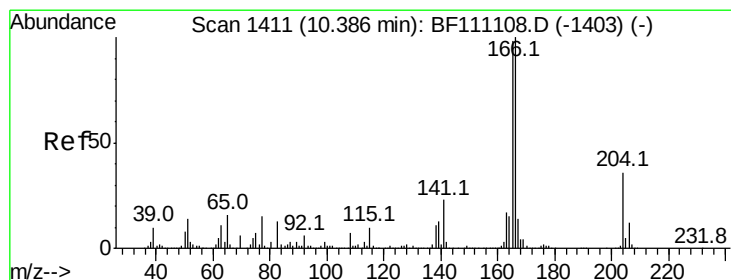
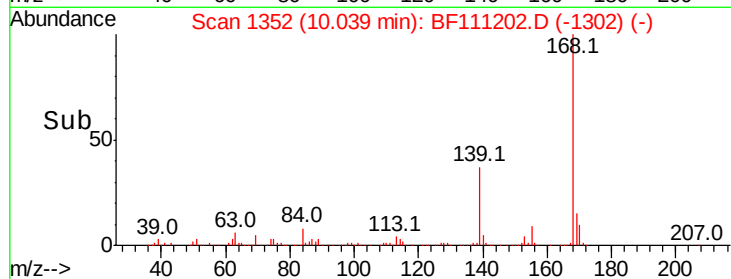
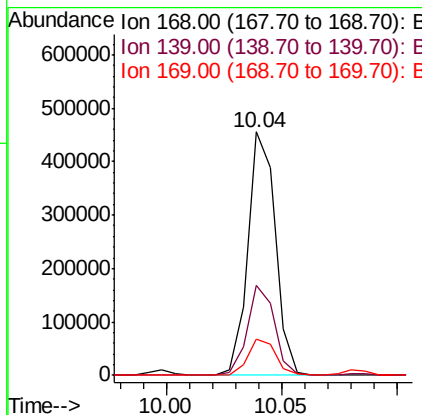
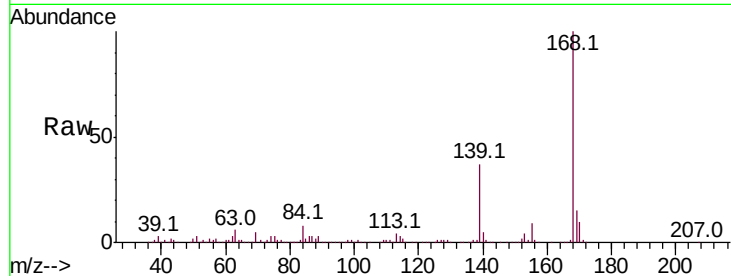
#55
Dibenzofuran
Concen: 5.036 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.2	35.1	52.7
169	15.0	12.2	18.4

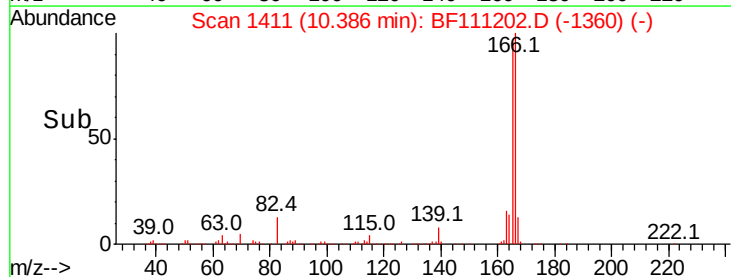
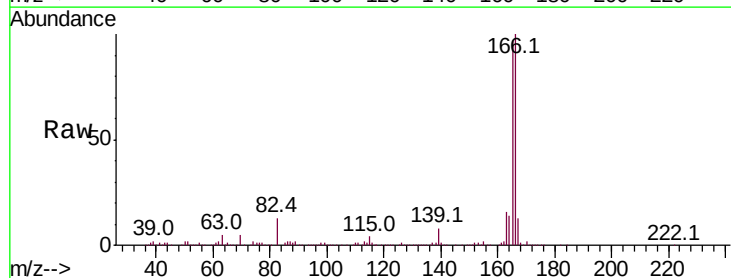
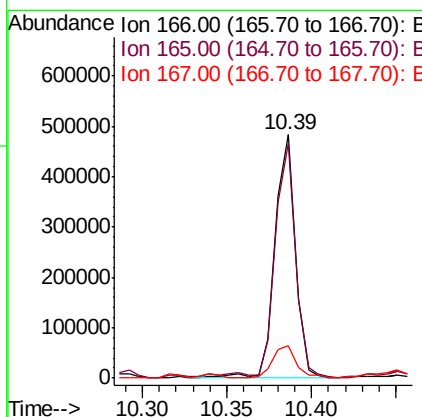
Manual Integrations
APPROVED

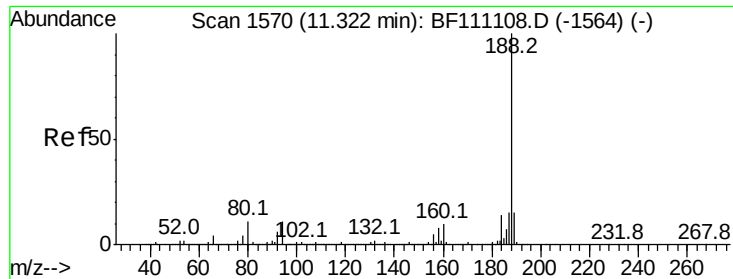
Sohil
12/11/2018 8:44:50 AM



#58
Fluorene
Concen: 7.433 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.00 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.5	78.4	117.6
167	13.1	11.4	17.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

Instrument :

BNA_F

ClientSampleId :

SB-1(0-2)

Tot Ion:188 Resp: 1459971

Ion Ratio Lower Upper

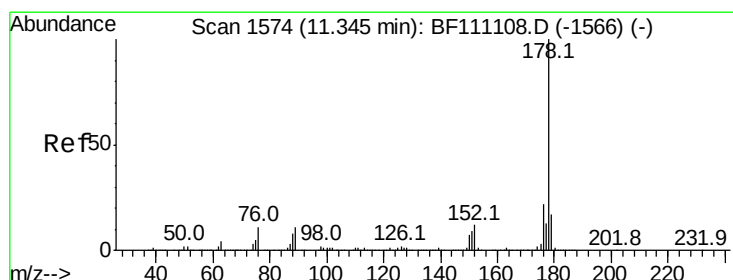
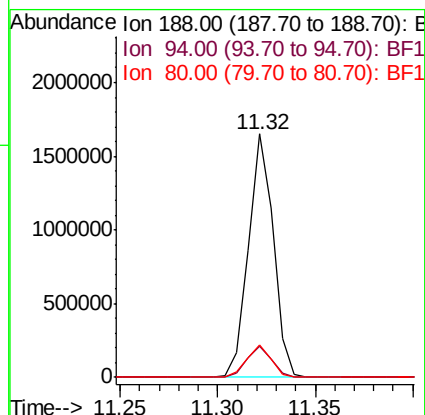
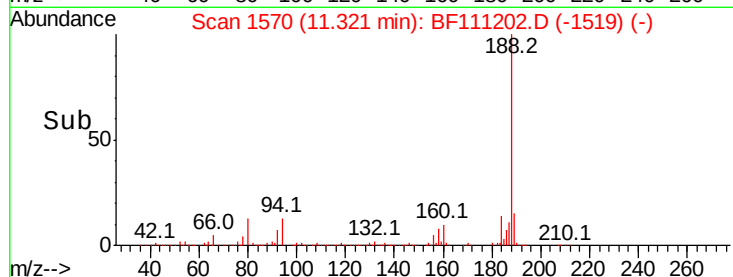
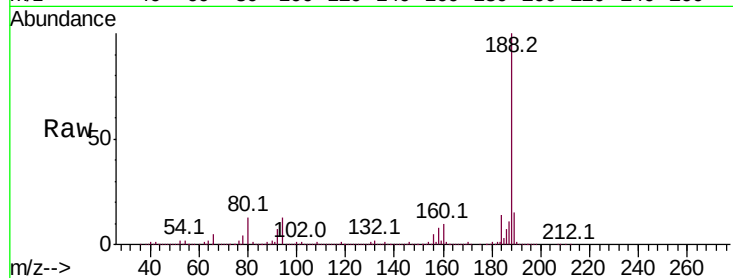
188 100

94 12.8 8.5 12.7#

80 13.5 9.0 13.6

Manual Integrations
APPROVED

Sohil
12/11/2018 8:44:50 AM



#71

Phenanthrene

Concen: 53.320 ng

RT: 11.35 min Scan# 1575

Delta R.T. 0.01 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

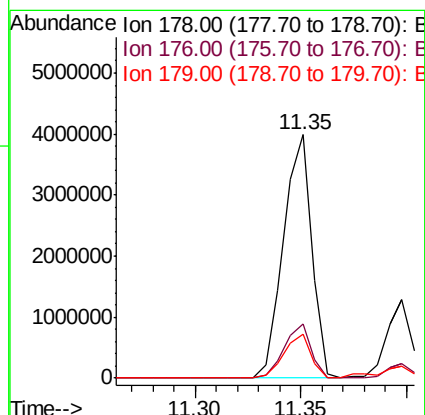
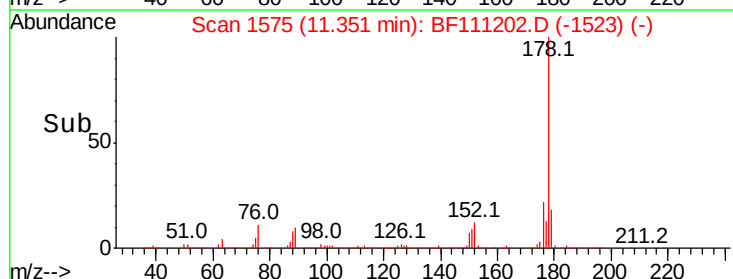
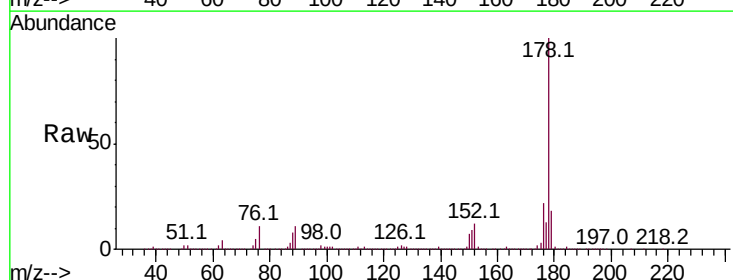
Tgt Ion:178 Resp: 3744492

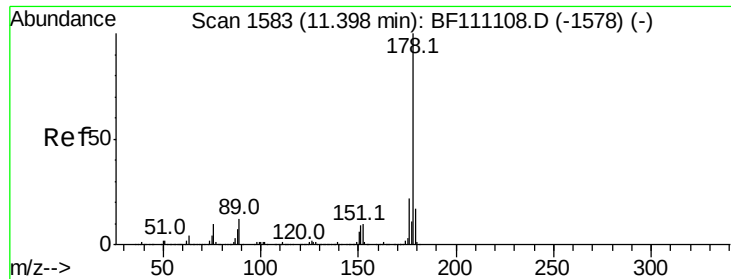
Ion Ratio Lower Upper

178 100

176 22.2 17.7 26.5

179 17.9 14.0 21.0





#72

Anthracene

Concen: 14.262 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

Instrument :

BNA_F

ClientSampleId :

SB-1(0-2)

Tot Ion:178 Resp: 1009586

Ion Ratio Lower Upper

178 100

176 19.2 17.3 25.9

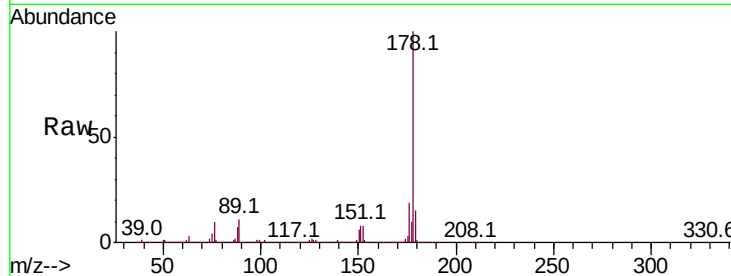
179 15.3 13.8 20.8

Manual Integrations

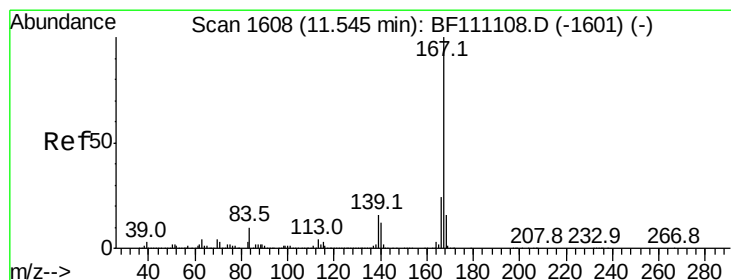
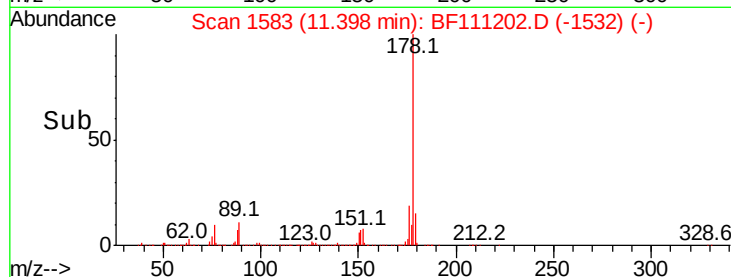
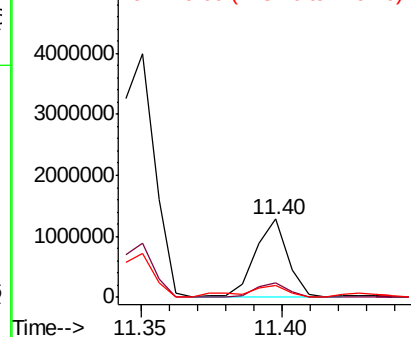
APPROVED

Sohil

12/11/2018 8:44:50 AM



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



#73

Carbazole

Concen: 4.149 ng

RT: 11.54 min Scan# 1608

Delta R.T. -0.00 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

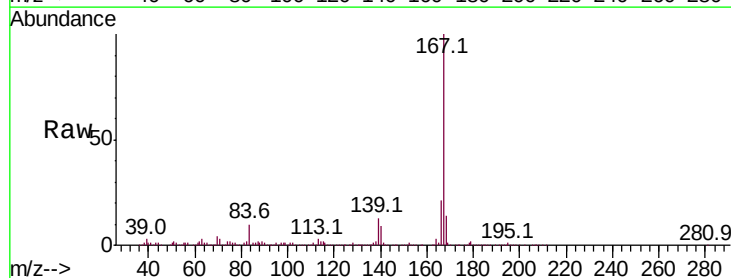
Tgt Ion:167 Resp: 305612

Ion Ratio Lower Upper

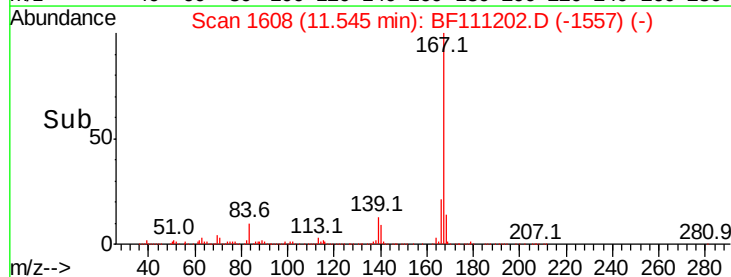
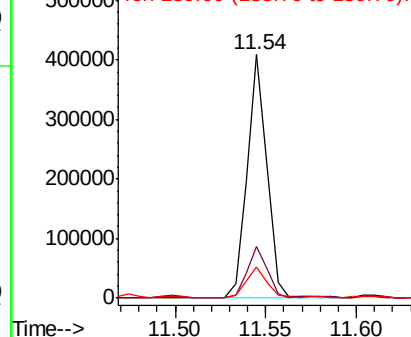
167 100

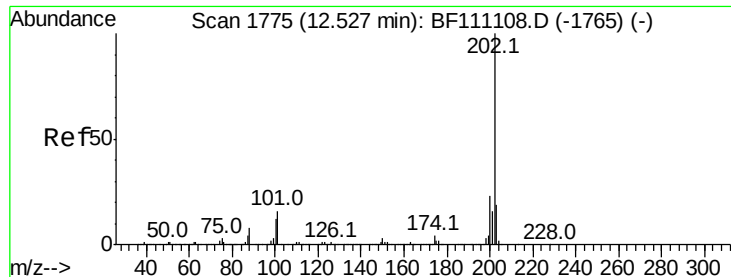
166 21.4 19.4 29.0

139 12.9 12.6 18.8



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 54.126 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

Instrument :

BNA_F

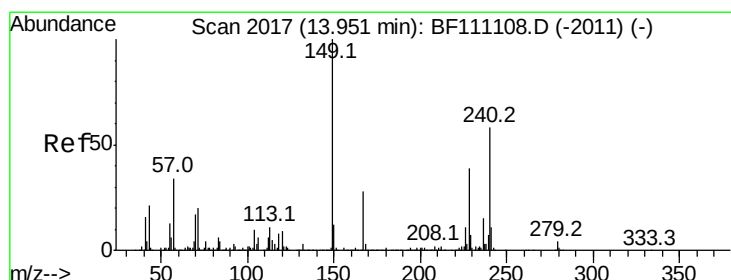
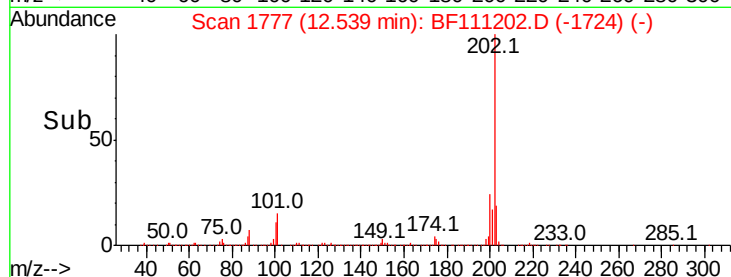
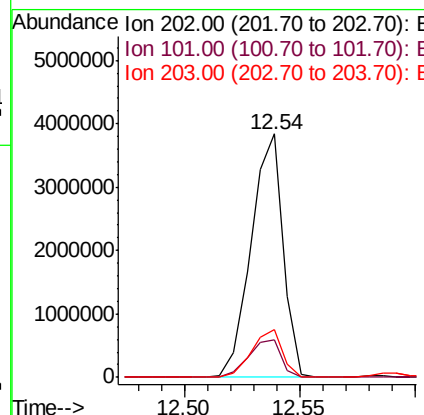
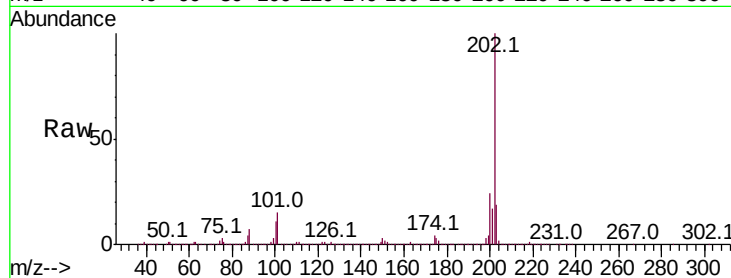
ClientSampleId :

SB-1(0-2)

Tot Ion:	202	Resp:	3719480
Ion	Ratio	Lower	Upper
202	100		
101	15.3	0.0	35.8
203	19.4	0.0	38.6

Manual Integrations
APPROVED

Sohil
12/11/2018 8:44:50 AM



#76

Chrysene-d12

Concen: 20.000 ng

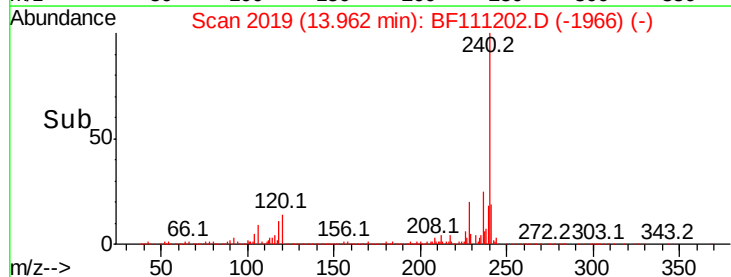
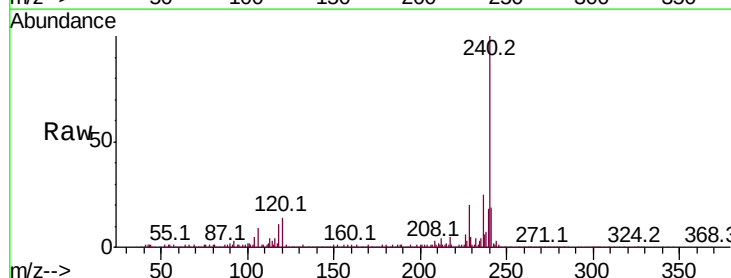
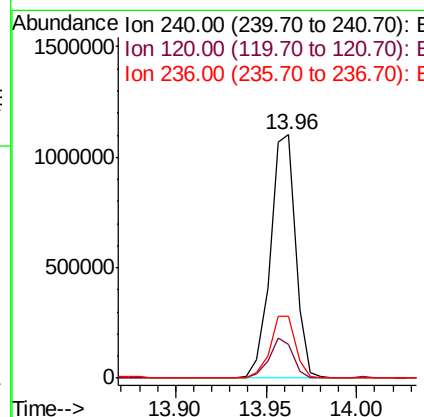
RT: 13.96 min Scan# 2019

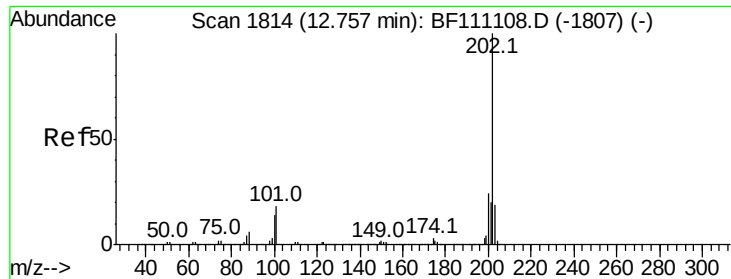
Delta R.T. 0.01 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

Tgt Ion:	240	Resp:	1063305
Ion	Ratio	Lower	Upper
240	100		
120	13.8	12.8	19.2
236	25.4	21.1	31.7





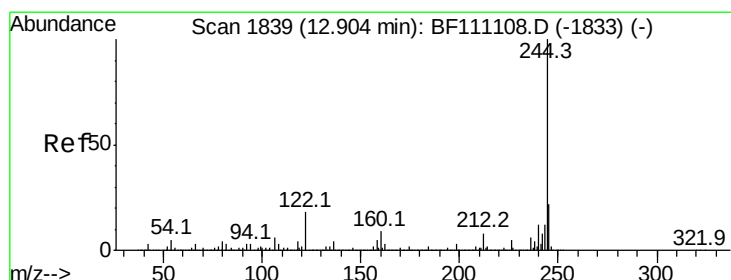
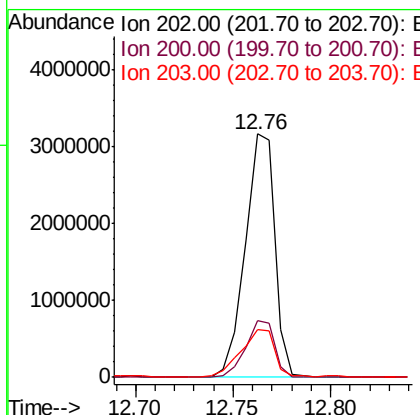
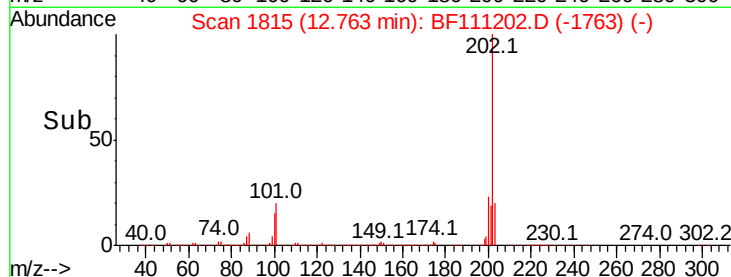
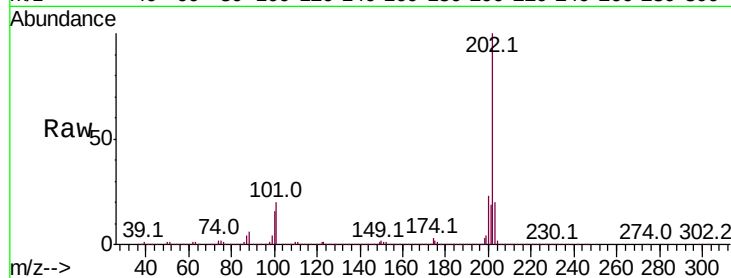
#78
Pvrene
Concen: 40.119 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
202	100		
200	23.4	19.3	28.9
203	19.7	15.4	23.2

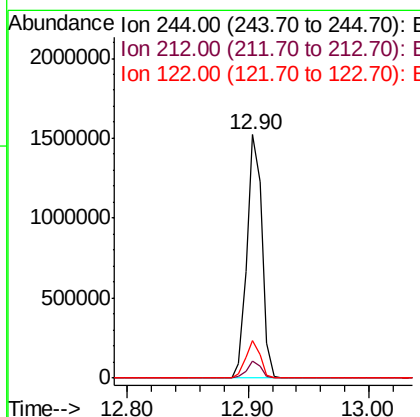
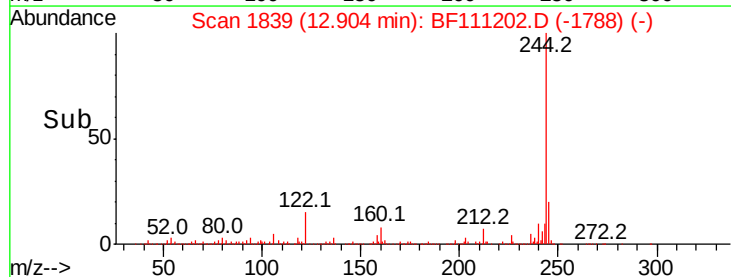
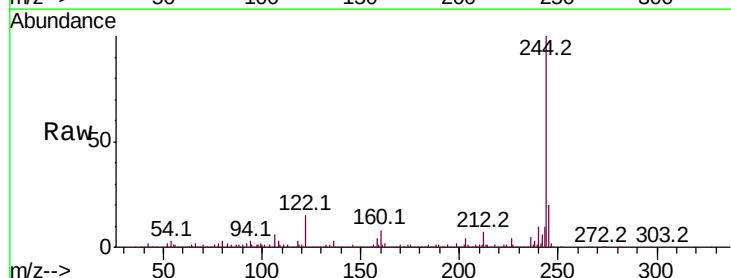
Manual Integrations
APPROVED

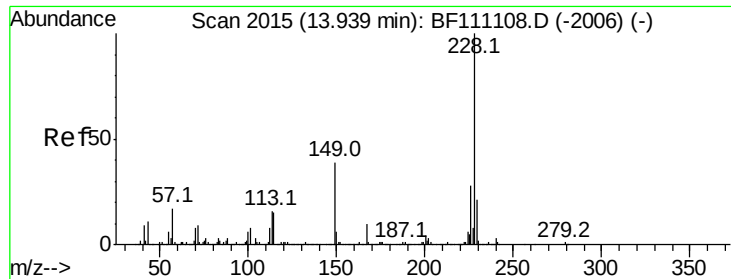
Sohil
12/11/2018 8:44:50 AM



#79
Terphenyl-d14
Concen: 25.530 ng
RT: 12.90 min Scan# 1839
Delta R.T. -0.00 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.6	9.8
122	15.3	14.2	21.2





#81

Benzo(a)anthracene

Concen: 27.437 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

Instrument :

BNA_F

ClientSampleId :

SB-1(0-2)

Tot Ion:228 Resp: 1709296

Ion Ratio Lower Upper

228 100

226 28.9 22.6 34.0

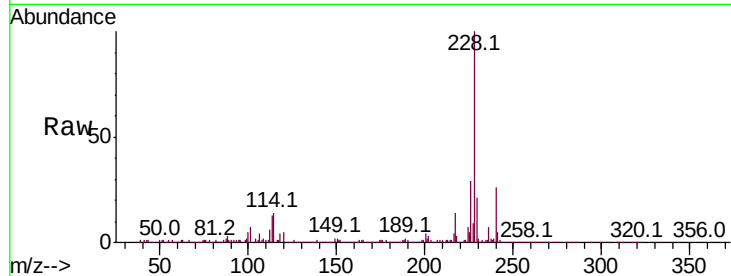
229 20.5 16.7 25.1

Manual Integrations

APPROVED

Sohil

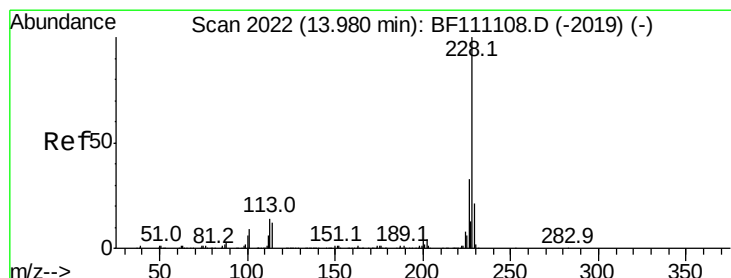
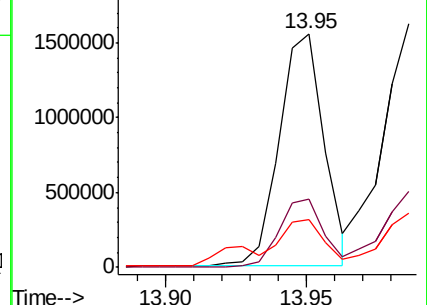
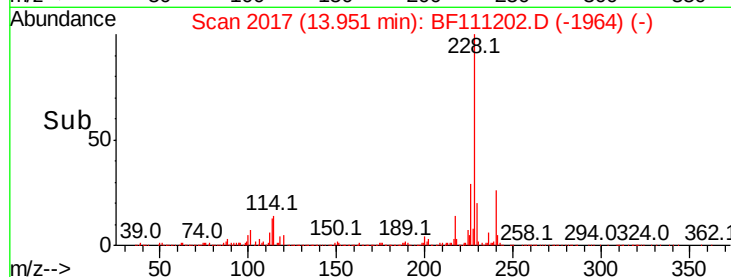
12/11/2018 8:44:50 AM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 25.510 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.01 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

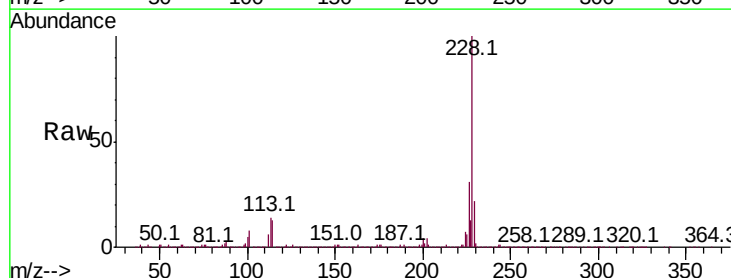
Tgt Ion:228 Resp: 1577716

Ion Ratio Lower Upper

228 100

226 31.4 26.2 39.2

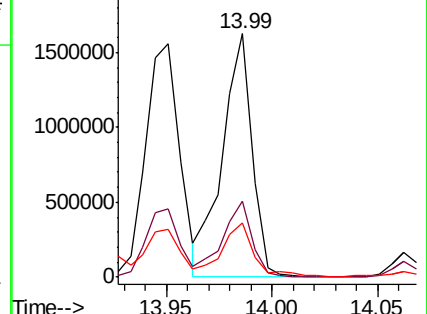
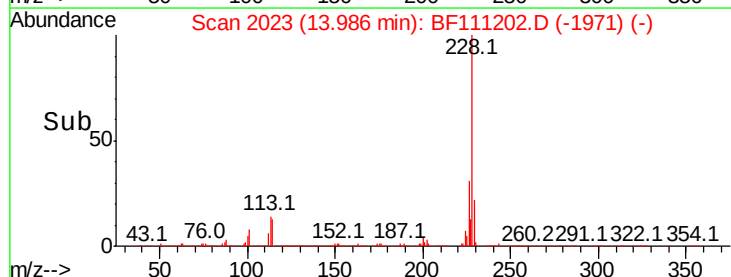
229 22.4 16.9 25.3

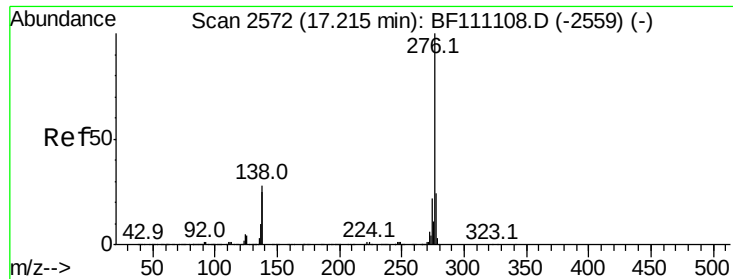


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 13.609 ng

RT: 16.80 min Scan# 2502

Delta R.T. 0.02 min

Lab File: BF111202.D

Acq: 7 Dec 2018 22:17

Instrument :

BNA_F

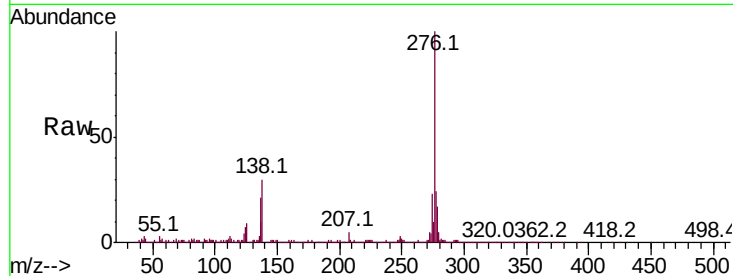
ClientSampled :

SB-1(0-2)

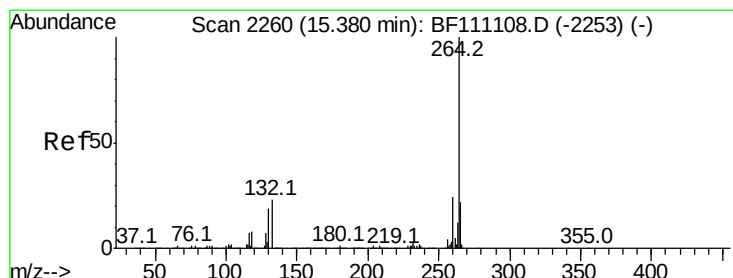
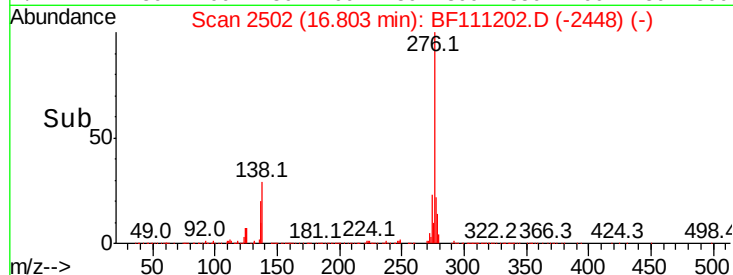
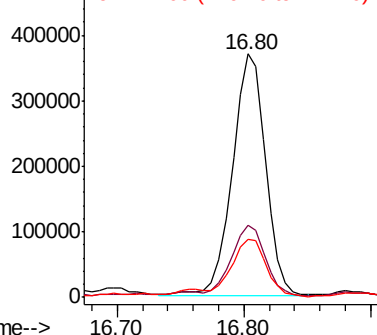
Tot Ion:	276	Resp:	675785
Ion Ratio	Lower	Upper	
276	100		
138	30.6	20.2	30.4#
277	24.2	15.8	23.6#

Manual Integrations
APPROVED

Sohil
12/11/2018 8:44:50 AM



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

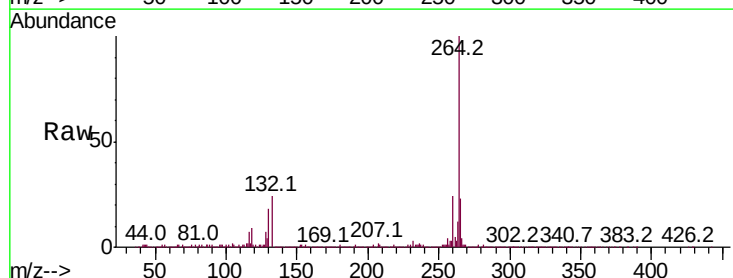
RT: 15.40 min Scan# 2263

Delta R.T. 0.02 min

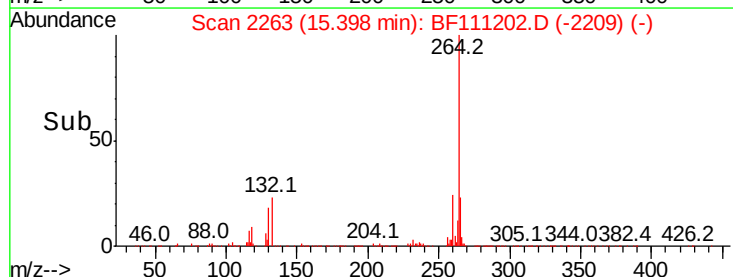
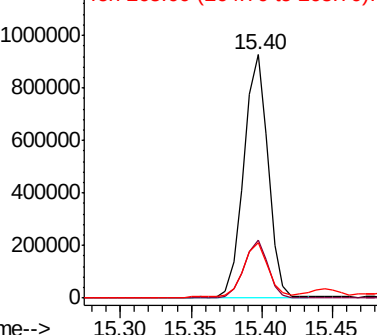
Lab File: BF111202.D

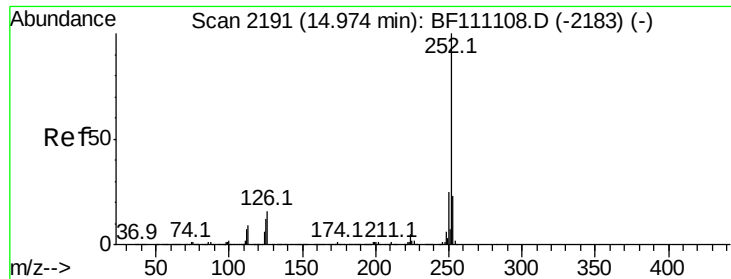
Acq: 7 Dec 2018 22:17

Tgt Ion:	264	Resp:	1118332
Ion Ratio	Lower	Upper	
264	100		
260	23.8	19.4	29.0
265	23.0	17.4	26.0



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





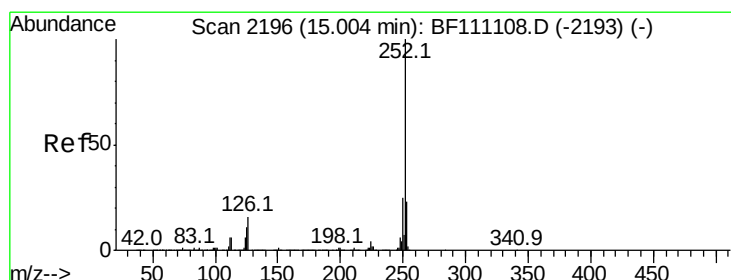
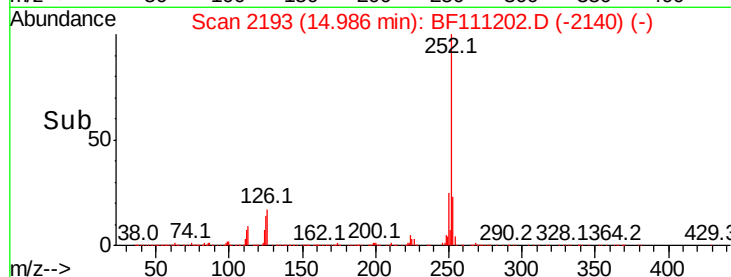
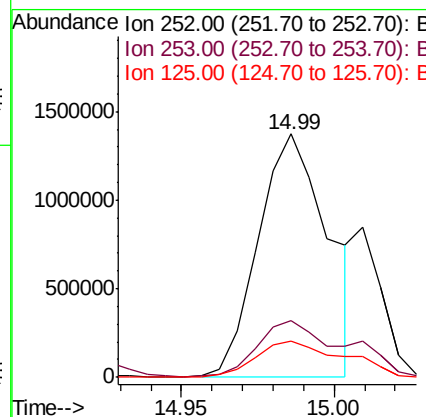
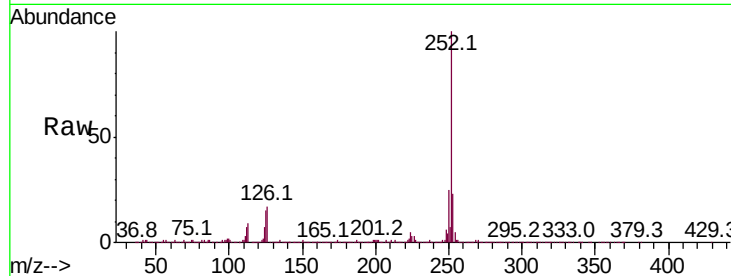
#88
Benzo(b)fluoranthene
Concen: 34.634 ng m
RT: 14.99 min Scan# 2193
Delta R.T. 0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.5	27.7
125	14.7	9.9	14.9

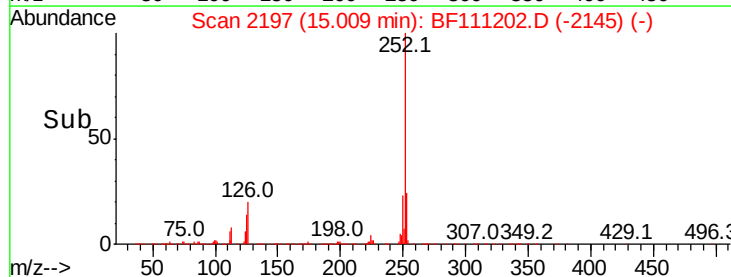
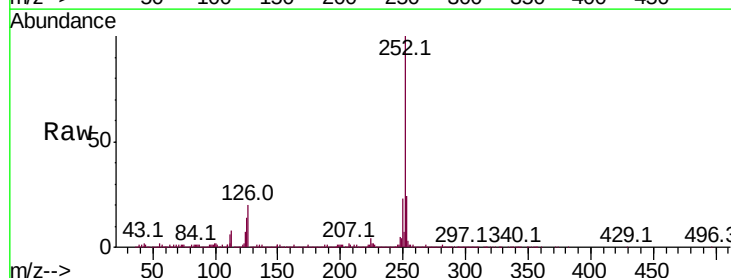
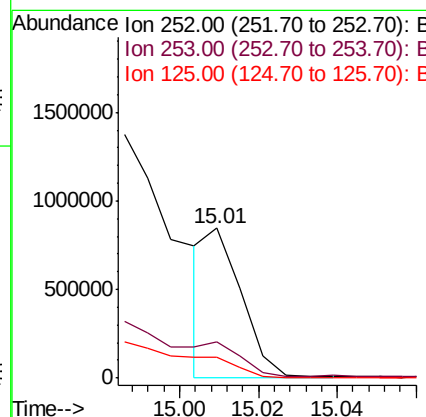
Manual Integrations
APPROVED

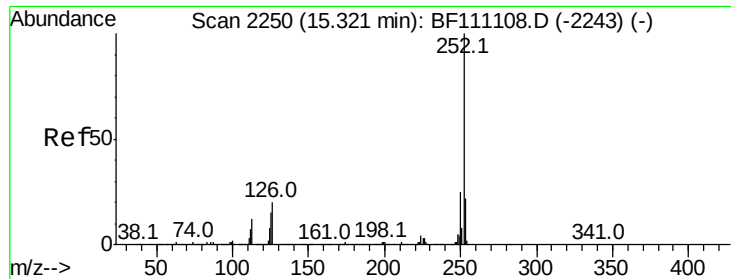
Sohil
12/11/2018 8:44:50 AM



#89
Benzo(k)fluoranthene
Concen: 8.703 ng m
RT: 15.01 min Scan# 2197
Delta R.T. 0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.4
125	14.1	9.9	14.9





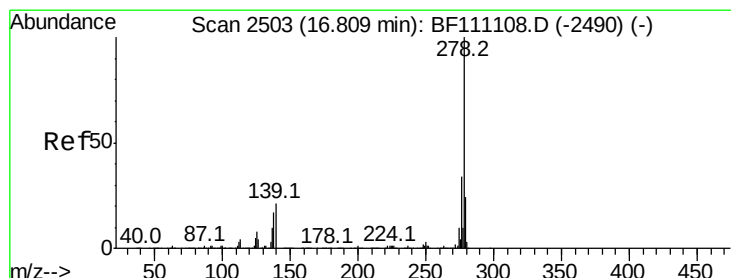
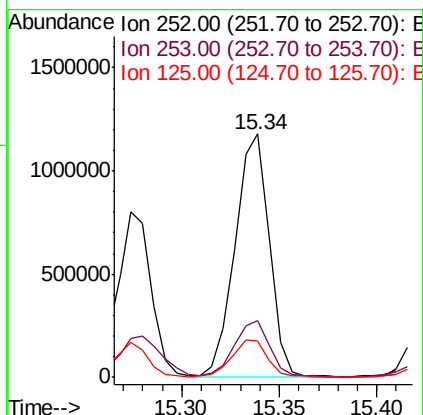
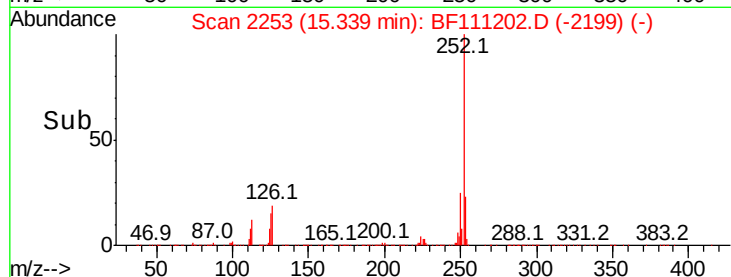
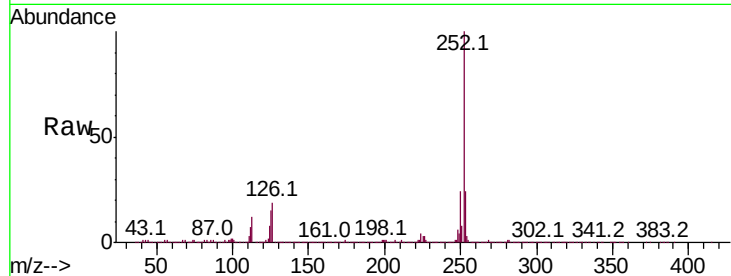
#90
Benzo(a)pyrene
Concen: 24.433 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Instrument :
BNA_F
ClientSampled :
SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	14.9	12.4	18.6

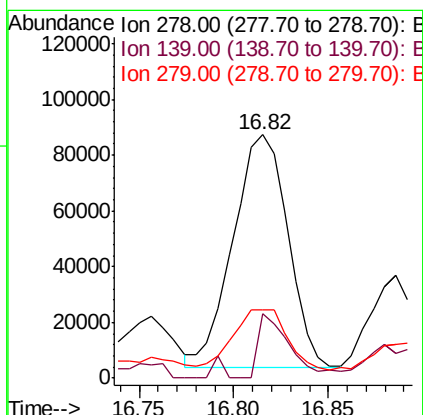
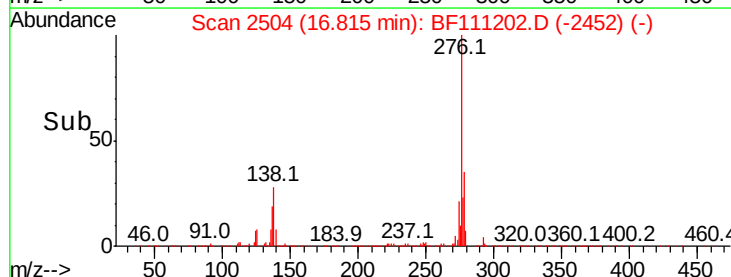
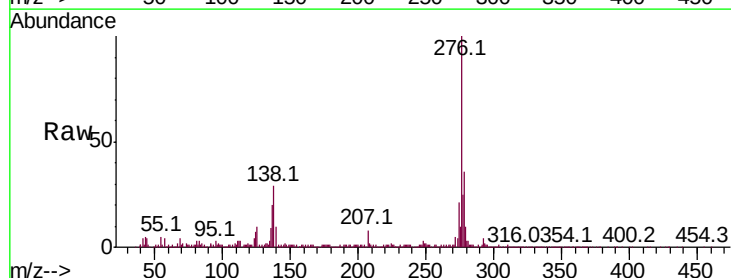
Manual Integrations
APPROVED

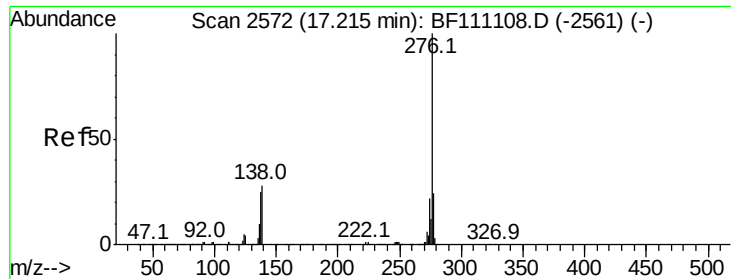
Sohil
12/11/2018 8:44:50 AM



#91
Dibenzo(a,h)anthracene
Concen: 3.453 ng m
RT: 16.82 min Scan# 2504
Delta R.T. 0.01 min
Lab File: BF111202.D
Acq: 7 Dec 2018 22:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.4	16.6	25.0#
279	27.8	18.8	28.2





#92
 Benzo(a,h,i)perylene
 Concen: 8.868 ng
 RT: 17.23 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BF111202.D
 Acq: 7 Dec 2018 22:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-1(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.3	28.9
138	29.7	22.3	33.5

Manual Integrations
 APPROVED

Sohil
 12/11/2018 8:44:50 AM

