

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
 Data File : BF101351.D
 Acq On : 13 Dec 2017 00:55
 Operator : SJ/JU
 Sample : I6822-12
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-8(13-15)

Manual Integrations
 APPROVED

Sohil
 12/13/2017 12:08:29 PM

Quant Time: Dec 13 05:34:46 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	47501	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	179738	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	76491	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	128190	20.00	ng	0.00
75) Chrysene-d12	14.00	240	107686	20.00	ng	0.00
86) Perylene-d12	15.48	264	89495	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	324381	112.84	ng	0.00
7) Phenol-d6	6.46	99	386676	110.79	ng	0.00
23) Nitrobenzene-d5	7.39	82	220876	73.31	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	83898	91.31	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	430434	76.99	ng	0.00
78) Terphenyl-d14	12.94	244	345232	70.12	ng	0.00
Target Compounds						
10) Phenol	6.47	94	13598	3.504	ng	87
49) Dimethylphthalate	9.57	163	71852	11.648	ng	# 99
70) Phenanthrene	11.38	178	42085	5.962	ng	96
71) Anthracene	11.43	178	14447	2.022	ng	93
74) Fluoranthene	12.57	202	55638	7.110	ng	93
77) Pyrene	12.80	202	55590	7.481	ng	99
80) Benzo(a)anthracene	13.99	228	39392	5.794	ng	96
82) Chrysene	14.03	228	35035	5.548	ng	96
85) Indeno(1,2,3-cd)pyrene	16.97	276	31222	5.562	ng	# 88
87) Benzo(b)fluoranthene	15.05	252	53505m	9.981	ng	
88) Benzo(k)fluoranthene	15.07	252	16861m	3.193	ng	
89) Benzo(a)pyrene	15.42	252	46136	9.467	ng	96
90) Dibenzo(a,h)anthracene	16.97	278	8941	2.081	ng	92
91) Benzo(a,h,i)perylene	17.42	276	27887	6.888	ng	# 89

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

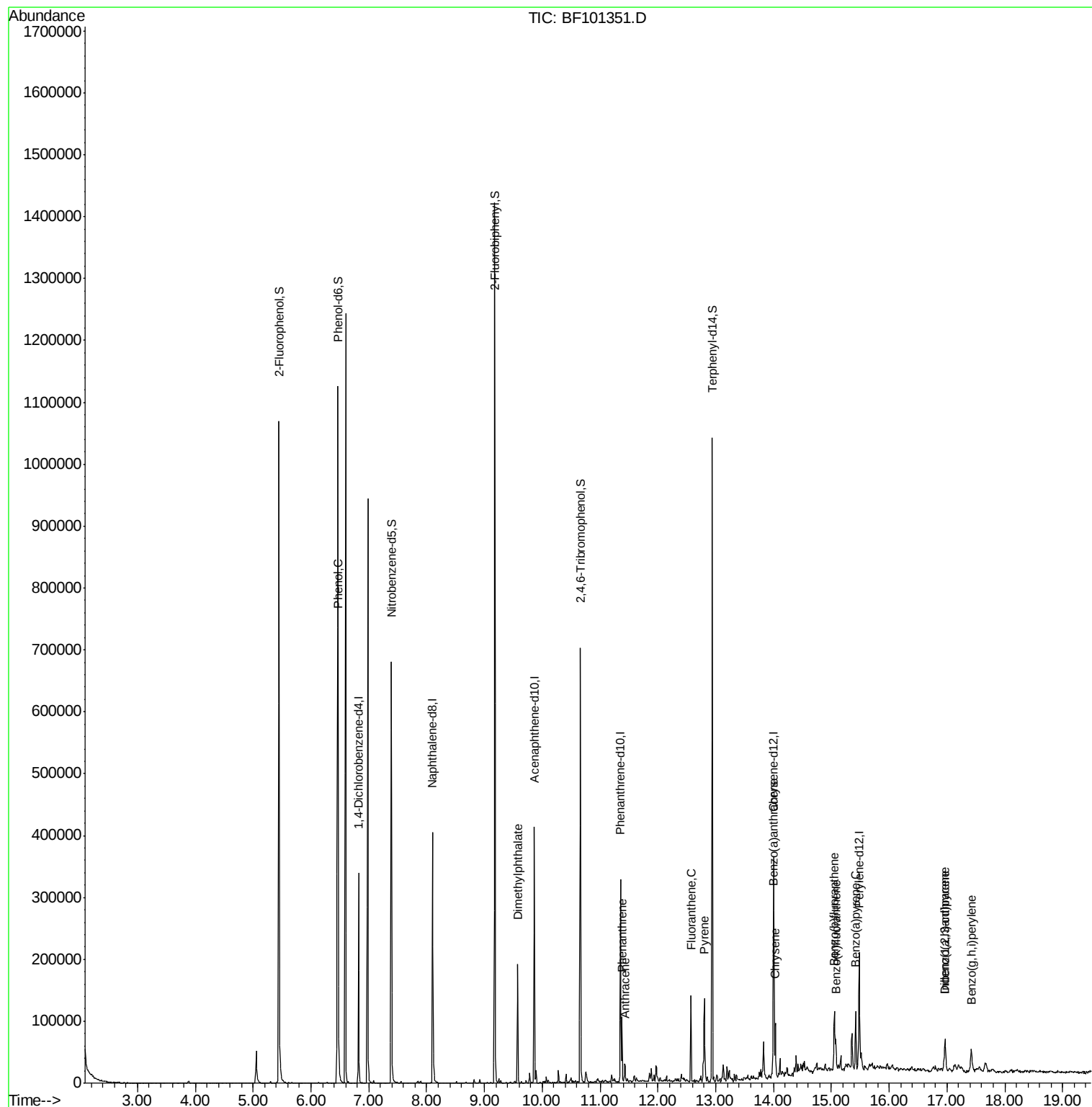
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101351.D
Acq On : 13 Dec 2017 00:55
Operator : SJ/JU
Sample : I6822-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

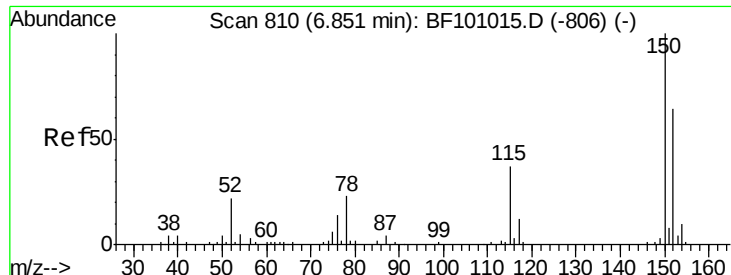
Instrument :
BNA_F
ClientSampleId :
SB-8(13-15)

Manual Integrations
APPROVED

Sohil
12/13/2017 12:08:29 PM

Quant Time: Dec 13 05:34:46 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 08 18:17:31 2017
Response via : Initial Calibration





#1

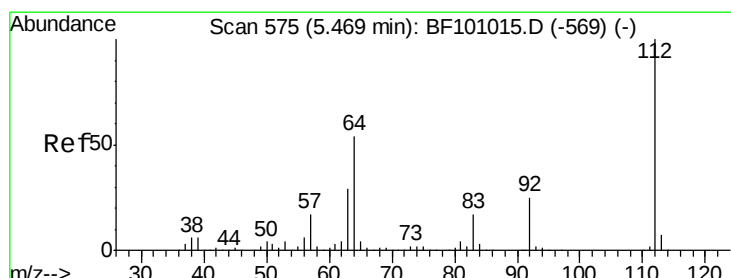
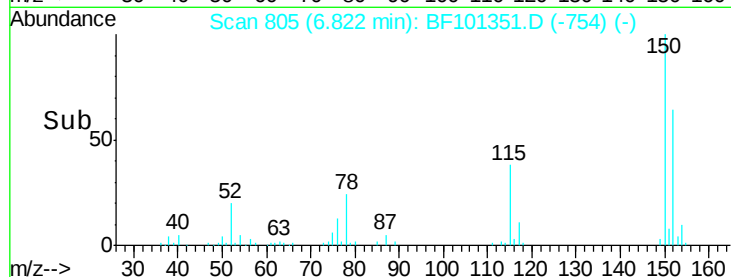
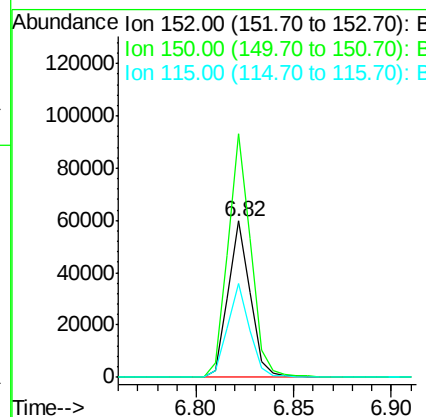
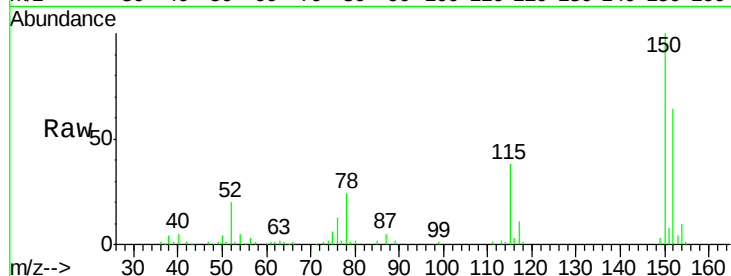
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.00 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Instrument :
BNA_F
ClientSampleId :
SB-8(13-15)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	59.9	50.1	75.1

Manual Integrations
APPROVED

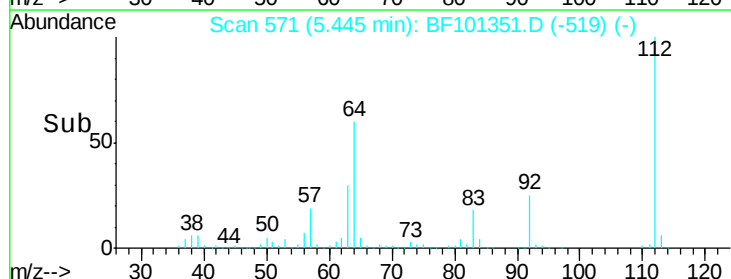
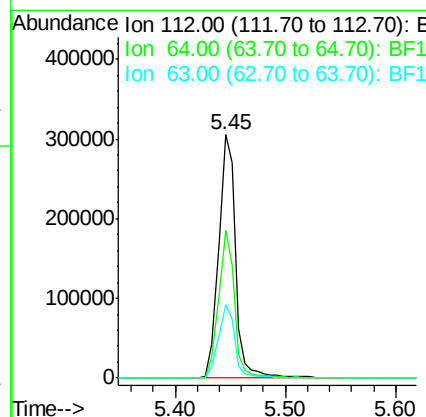
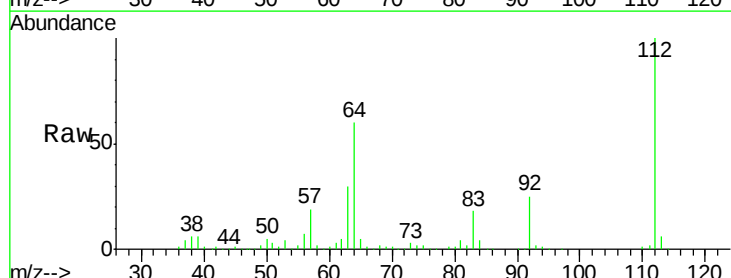
Sohil
12/13/2017 12:08:29 PM

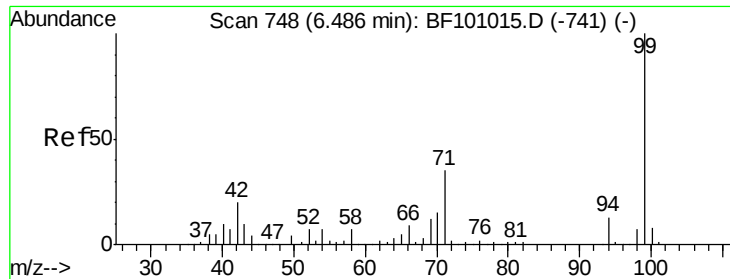


#5

2-Fluorophenol
Concen: 112.844 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.4	47.9	71.9
63	30.2	23.7	35.5





#7

Phenol-d6

Concen: 110.794 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.00 min

Lab File: BF101351.D

Acq: 13 Dec 2017 00:55

Instrument :

BNA_F

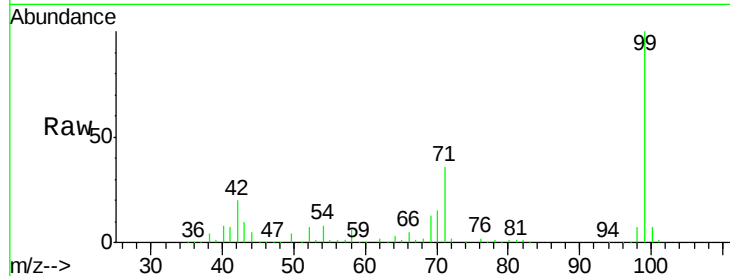
ClientSampleId :

SB-8(13-15)

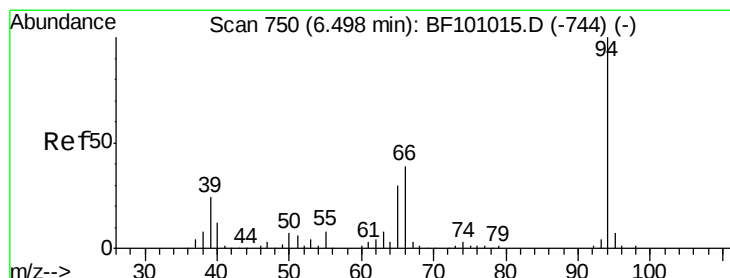
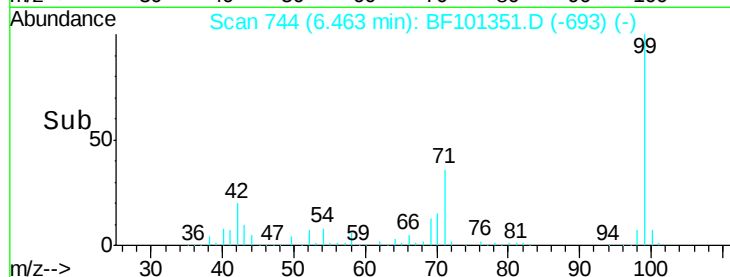
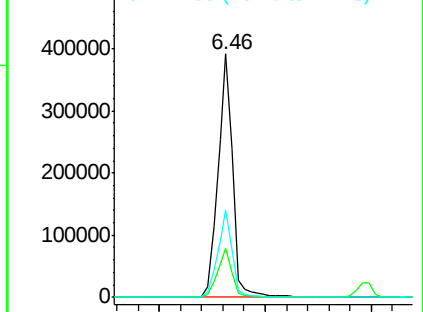
Tot Ion:	99	Resp:	386676
Ion Ratio	Lower	Upper	
99	100		
42	20.3	14.5	21.7
71	35.7	25.4	38.0

Manual Integrations
APPROVED

Sohil
12/13/2017 12:08:29 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.504 ng

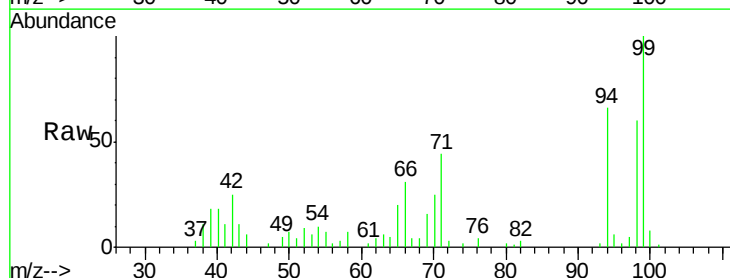
RT: 6.47 min Scan# 746

Delta R.T. -0.00 min

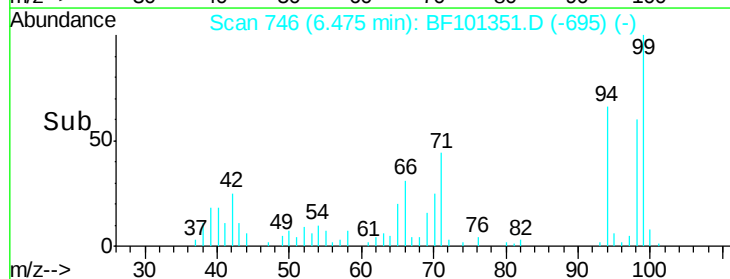
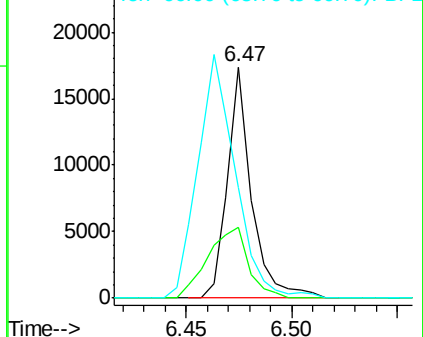
Lab File: BF101351.D

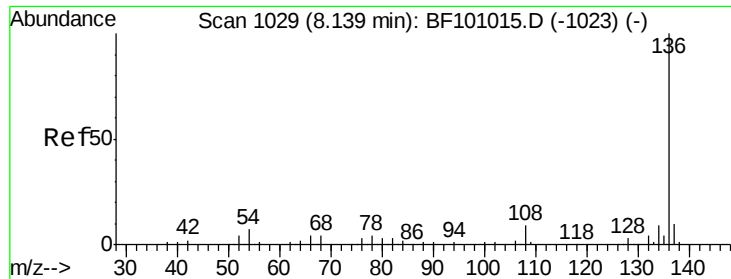
Acq: 13 Dec 2017 00:55

Tgt Ion:	94	Resp:	13598
Ion Ratio	Lower	Upper	
94	100		
65	30.5	7.9	47.9
66	47.8	16.2	56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





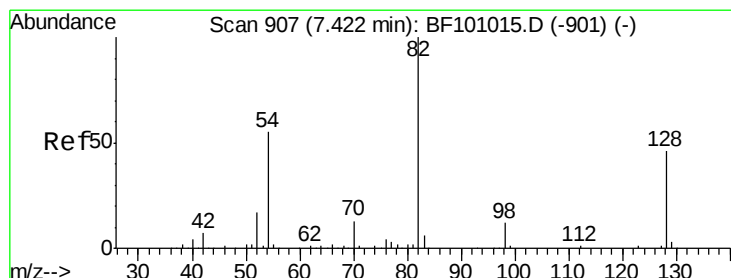
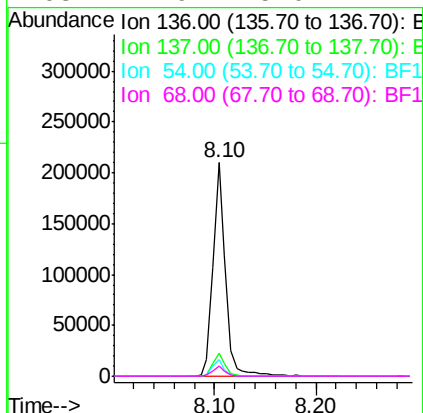
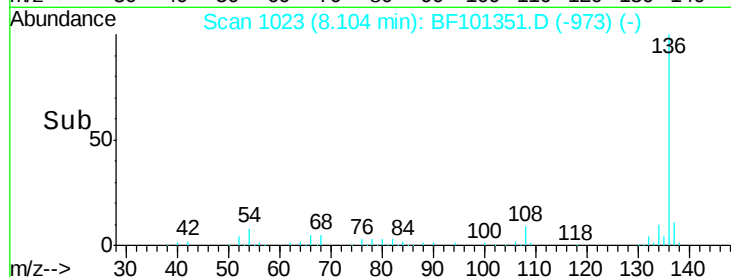
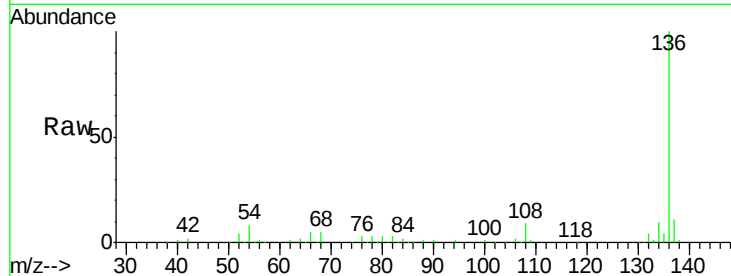
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Instrument :
BNA_F
ClientSampleId :
SB-8(13-15)

Tot Ion	Ratio	Resp	Lower	Upper
136	100	179738		
137	10.9	8.9	13.3	
54	7.8	6.6	9.8	
68	4.9	5.0	7.4	

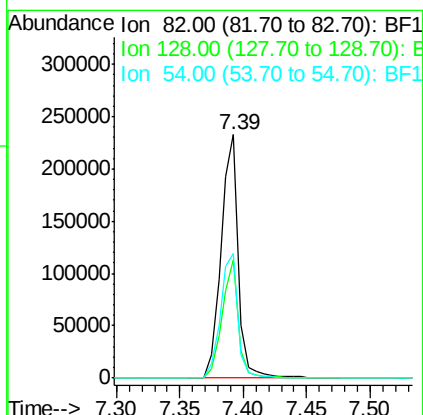
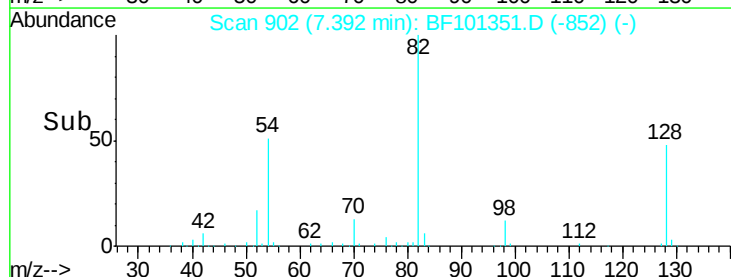
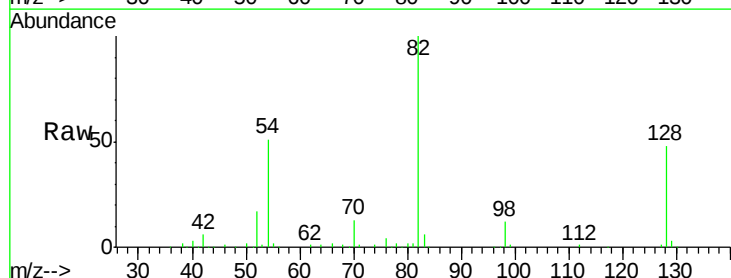
Manual Integrations
APPROVED

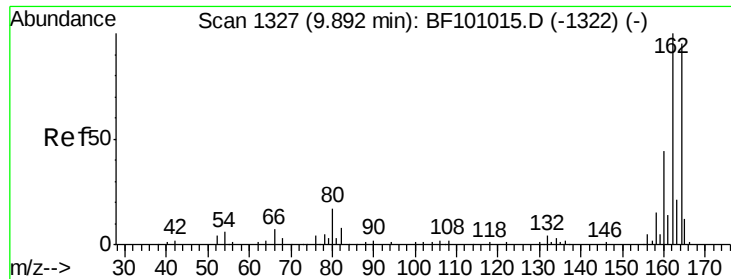
Sohil
12/13/2017 12:08:29 PM



#23
Nitrobenzene-d5
Concen: 73.306 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	220876		
128	48.3	36.1	54.1	
54	51.2	41.4	62.2	





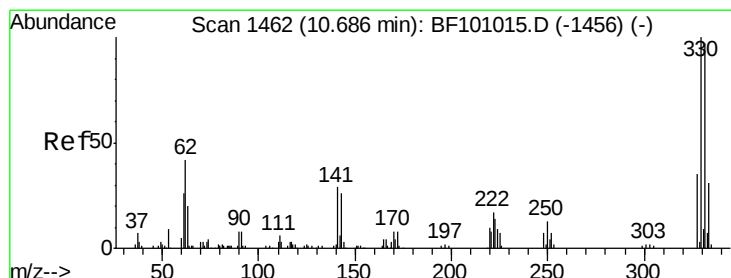
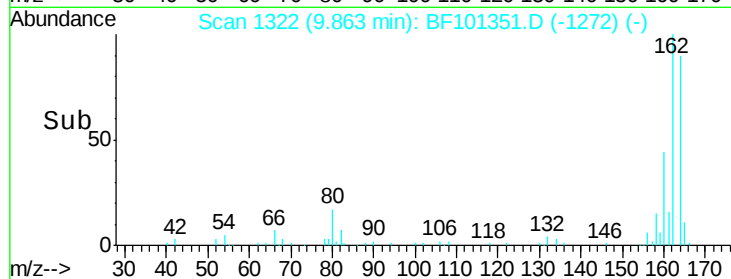
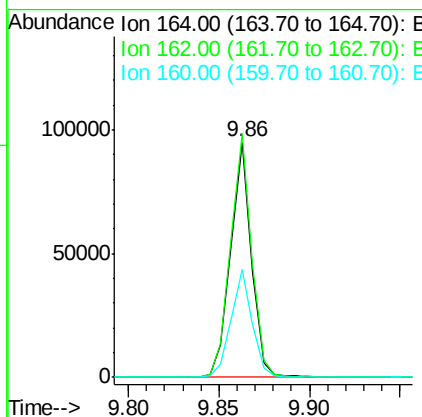
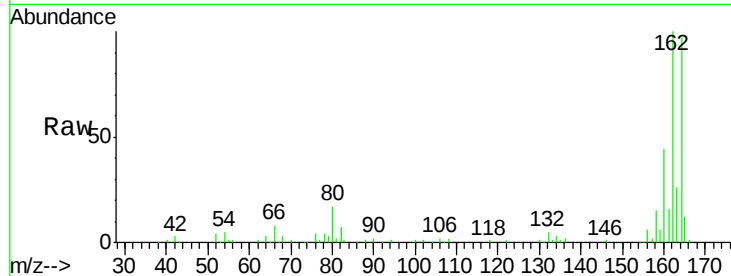
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.01 min
 Lab File: BF101351.D
 Acq: 13 Dec 2017 00:55

Instrument :
 BNA_F
 ClientSampled :
 SB-8(13-15)

Tot Ion:	164	Resp:	76491
Ion Ratio	Lower	Upper	
164	100		
162	103.5	86.1	129.1
160	45.8	38.3	57.5

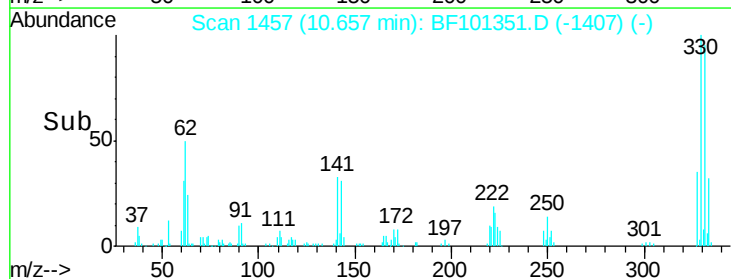
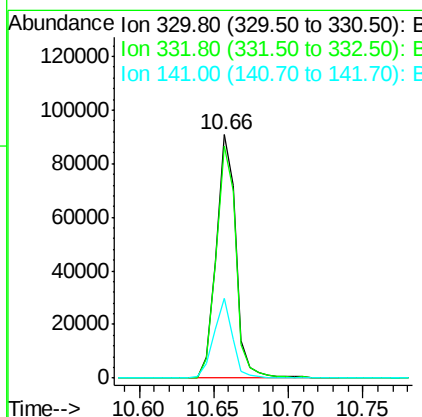
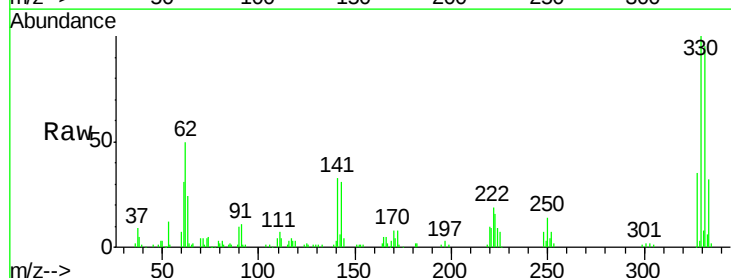
Manual Integrations
 APPROVED

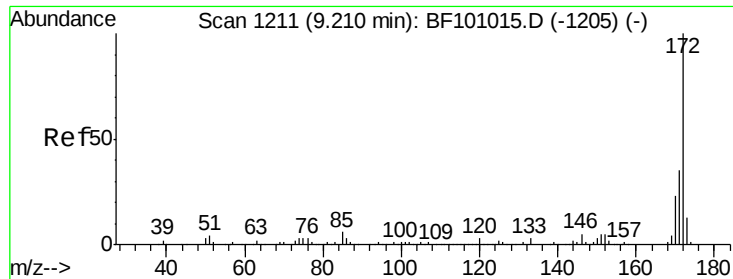
Sohil
 12/13/2017 12:08:29 PM



#41
 2,4,6-Tribromophenol
 Concen: 91.305 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. -0.01 min
 Lab File: BF101351.D
 Acq: 13 Dec 2017 00:55

Tgt Ion:	330	Resp:	83898
Ion Ratio	Lower	Upper	
330	100		
332	96.6	77.0	115.6
141	30.4	29.9	44.9





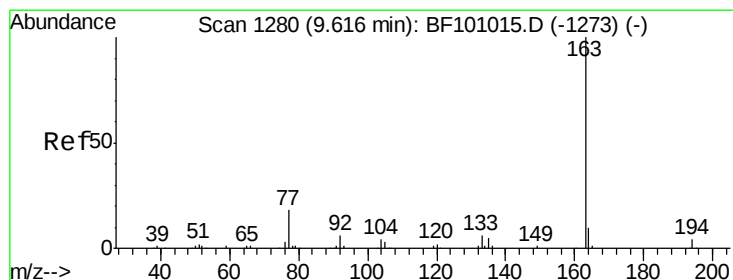
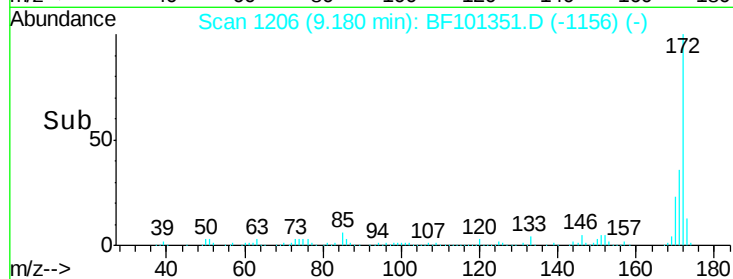
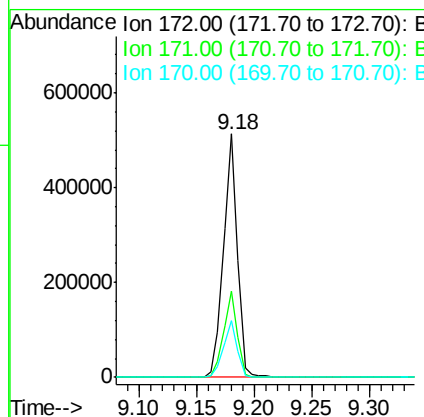
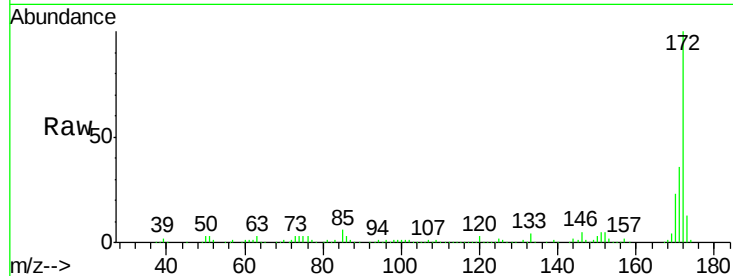
#44
2-Fluorobiphenyl
Concen: 76.992 ng
RT: 9.18 min Scan# 1206
Delta R.T. -0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Instrument :
BNA_F
ClientSampleId :
SB-8(13-15)

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	23.1	19.6	29.4

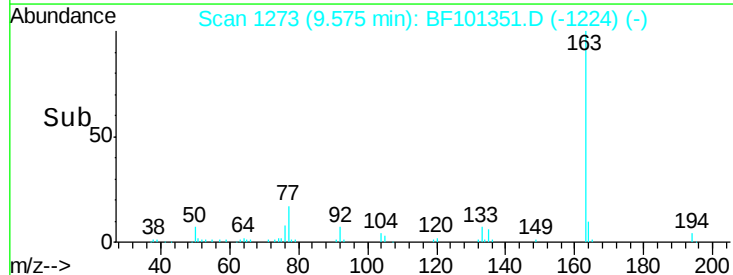
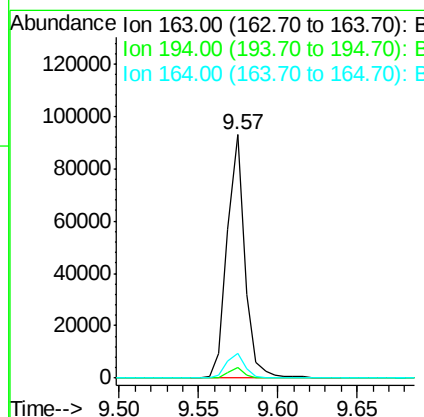
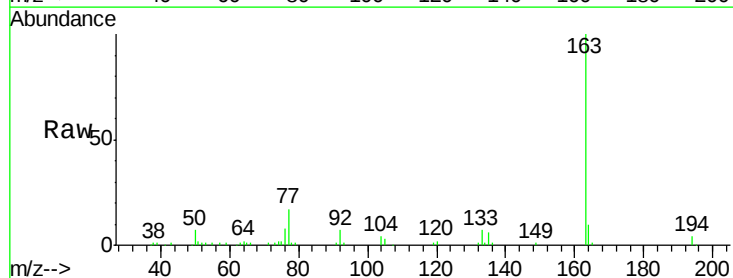
Manual Integrations
APPROVED

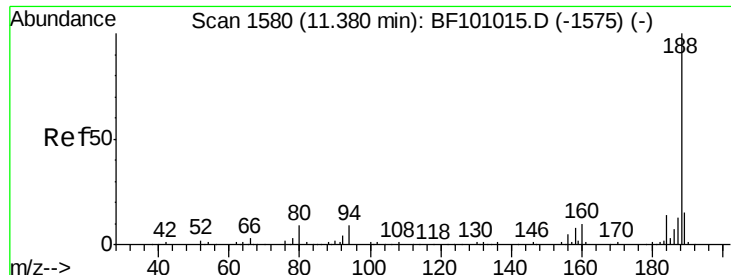
Sohil
12/13/2017 12:08:29 PM



#49
Dimethylphthalate
Concen: 11.648 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.3	2.7	4.1#
164	10.0	8.2	12.2





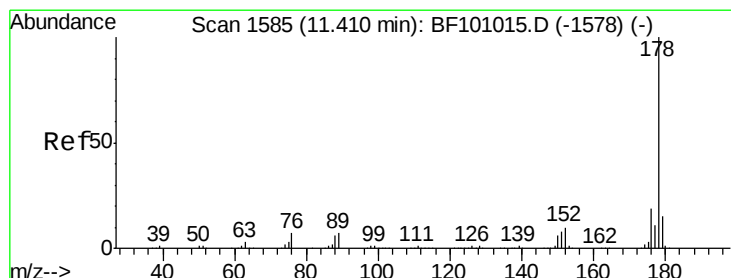
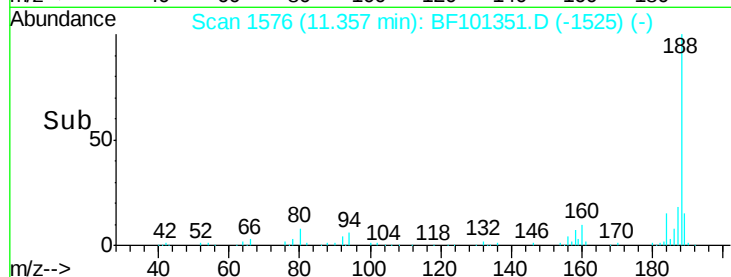
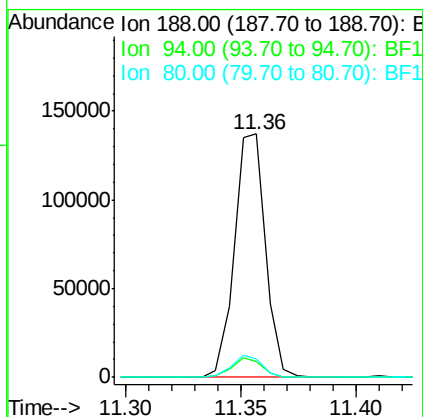
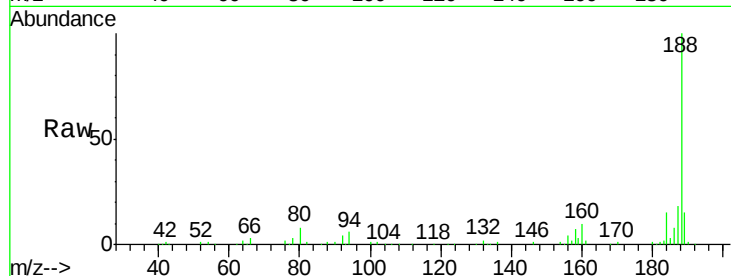
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.00 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Instrument :
BNA_F
ClientSampleId :
SB-8(13-15)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	6.4	8.5	12.7#
80	7.7	9.2	13.8#

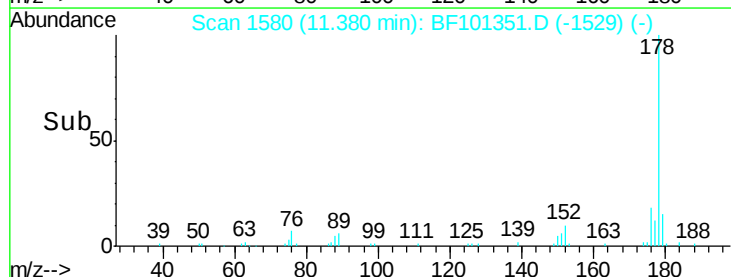
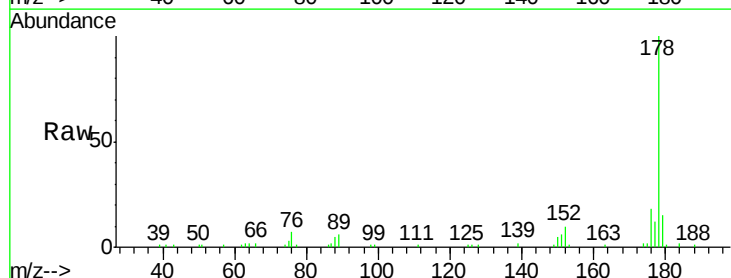
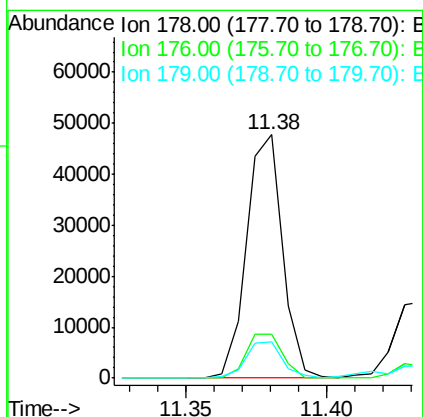
Manual Integrations
APPROVED

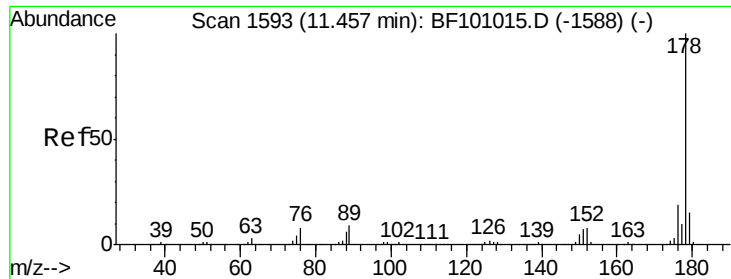
Sohil
12/13/2017 12:08:29 PM



#70
Phenanthrene
Concen: 5.962 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	17.8	15.8	23.8
179	15.1	13.0	19.6





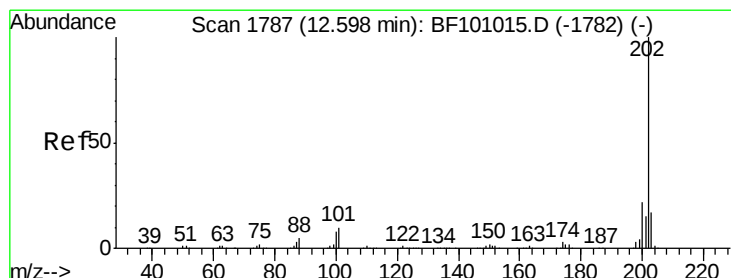
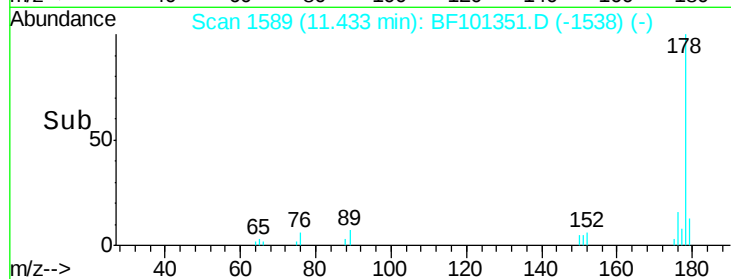
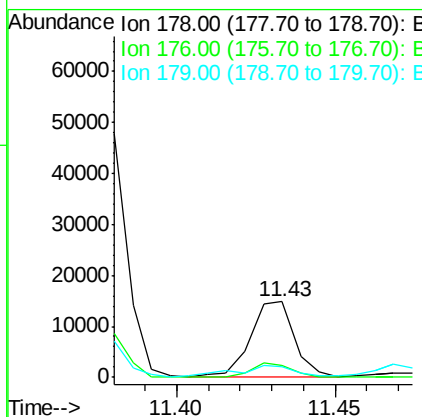
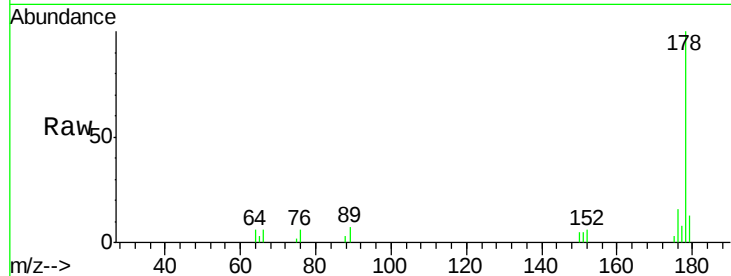
#71
 Anthracene
 Concen: 2.022 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.00 min
 Lab File: BF101351.D
 Acq: 13 Dec 2017 00:55

Instrument :
 BNA_F
 ClientSampleId :
 SB-8(13-15)

Tot Ion	Ratio	Lower	Upper
178	100		
176	15.5	15.4	23.2
179	13.4	12.6	19.0

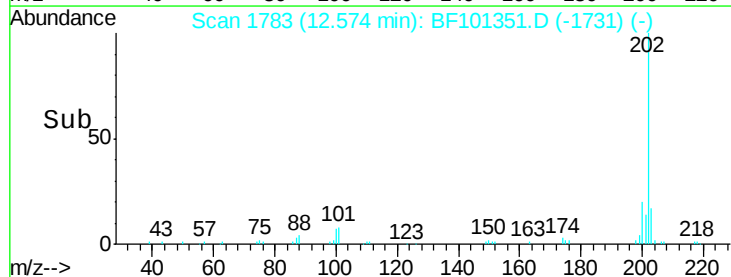
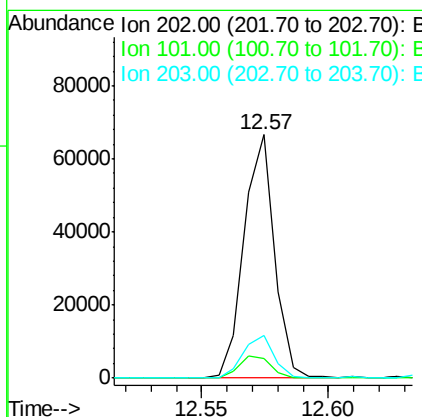
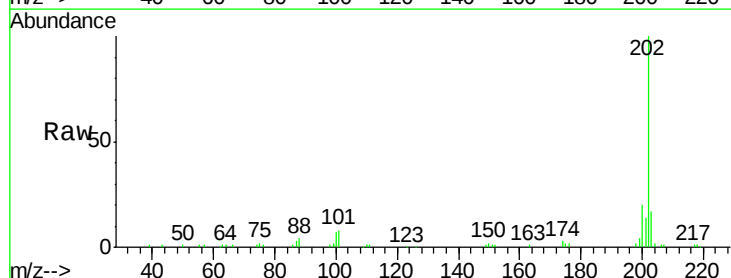
Manual Integrations
 APPROVED

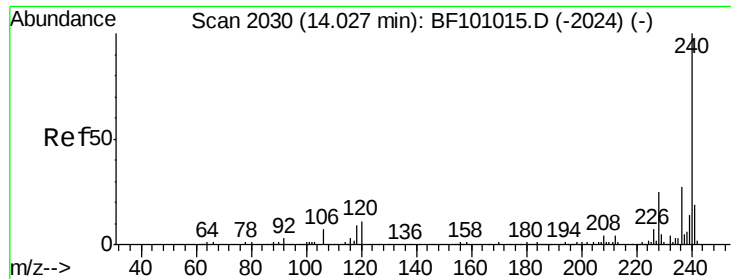
Sohil
 12/13/2017 12:08:29 PM



#74
 Fluoranthene
 Concen: 7.110 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: BF101351.D
 Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.3	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.00 min

Lab File: BF101351.D

Acq: 13 Dec 2017 00:55

Instrument :

BNA_F

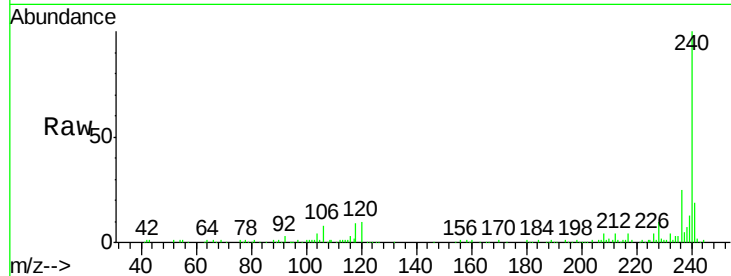
ClientSampleId :

SB-8(13-15)

Tot Ion:	240	Resp:	107686
Ion Ratio	Lower	Upper	
240	100		
120	9.8	9.5	14.3
236	24.8	20.7	31.1

Manual Integrations
APPROVED

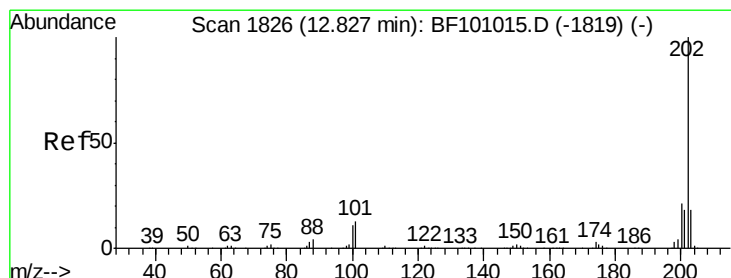
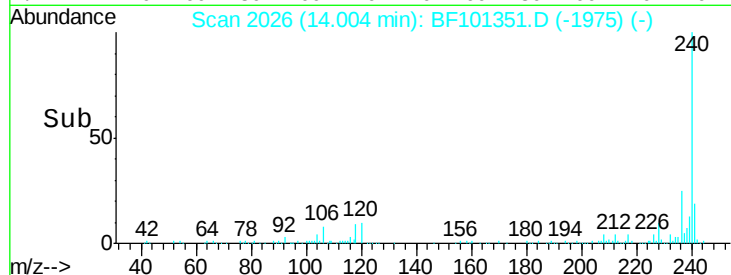
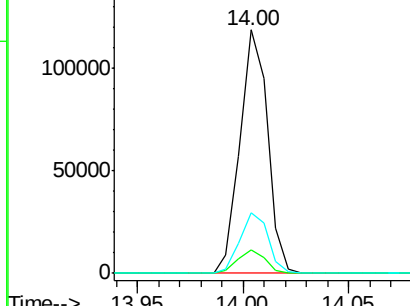
Sohil
12/13/2017 12:08:29 PM



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

Pyrene

Concen: 7.481 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.00 min

Lab File: BF101351.D

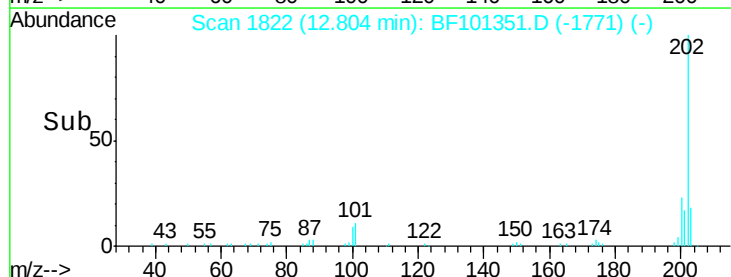
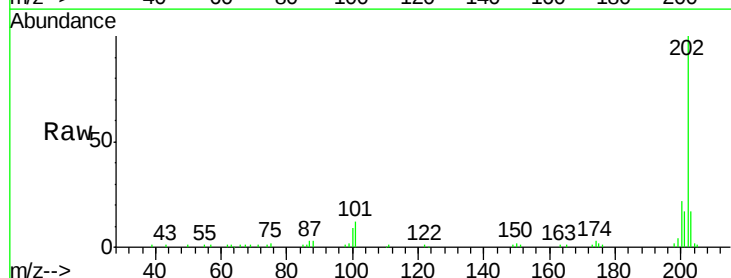
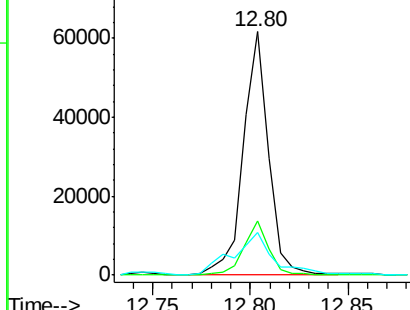
Acq: 13 Dec 2017 00:55

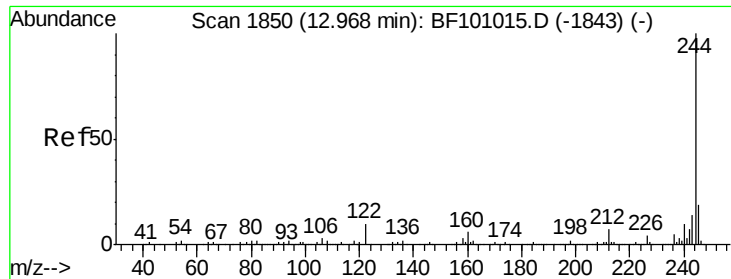
Tgt Ion:	202	Resp:	55590
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.4	26.2
203	17.5	14.3	21.5

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





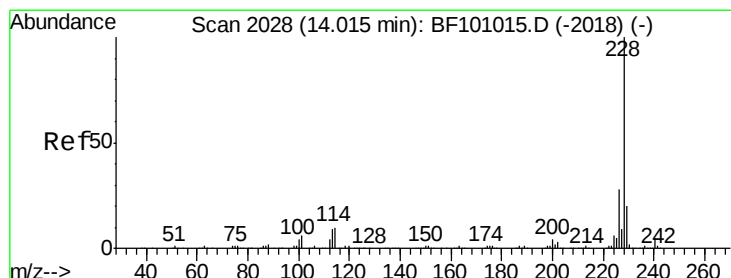
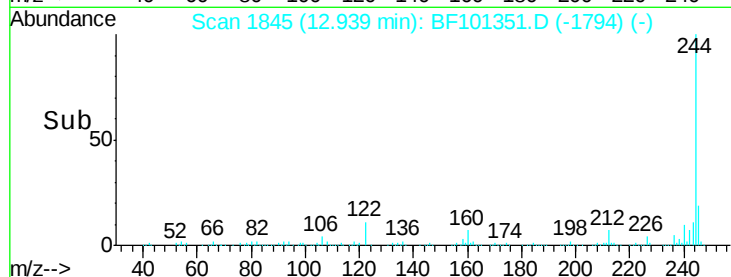
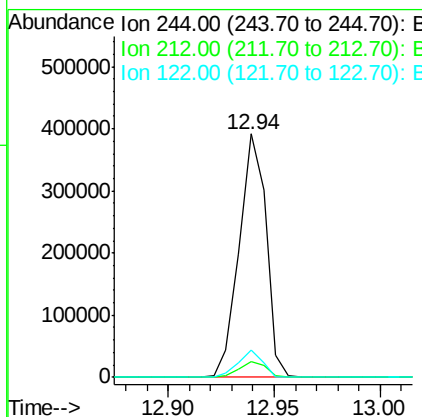
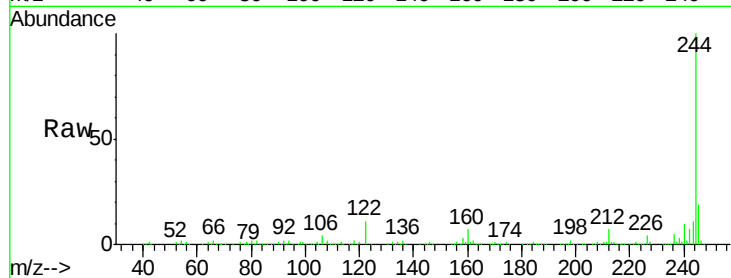
#78
 Terphenyl-d14
 Concen: 70.122 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.00 min
 Lab File: BF101351.D
 Acq: 13 Dec 2017 00:55

Instrument :
 BNA_F
 ClientSampled :
 SB-8(13-15)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	11.2	11.0	16.4

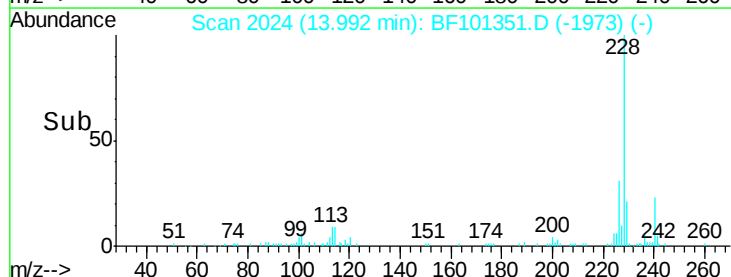
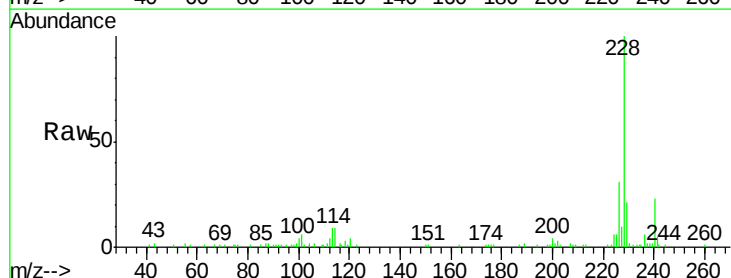
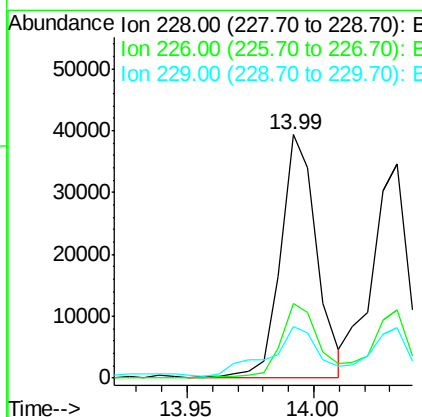
Manual Integrations
 APPROVED

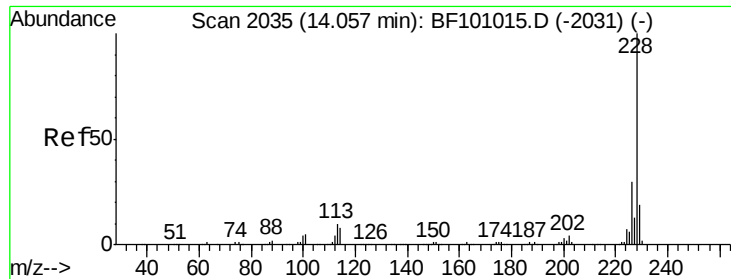
Sohil
 12/13/2017 12:08:29 PM



#80
 Benzo(a)anthracene
 Concen: 5.794 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.00 min
 Lab File: BF101351.D
 Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	22.6	33.8
229	21.3	15.8	23.6





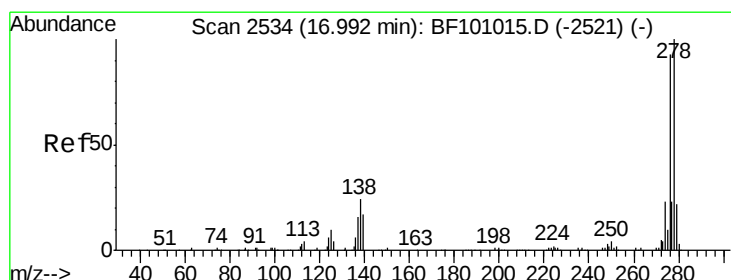
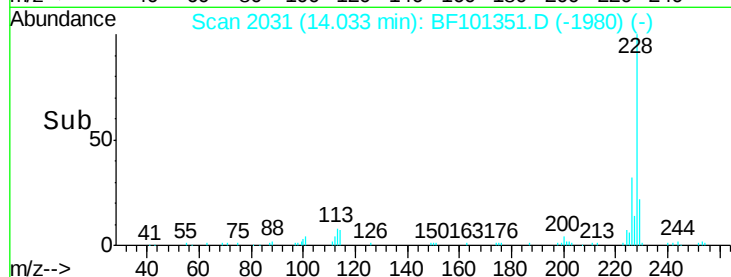
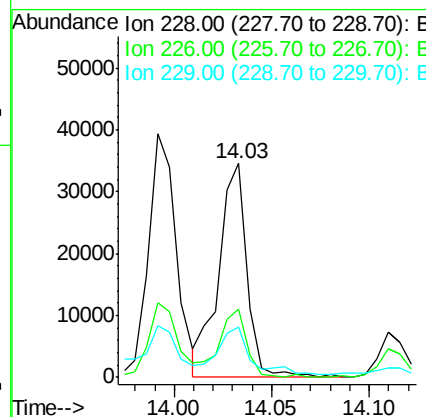
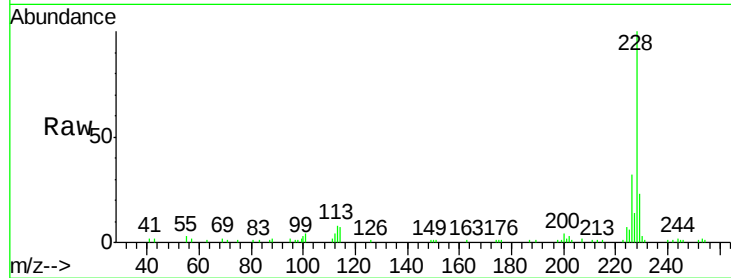
#82
Chrysene
Concen: 5.548 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.00 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Instrument :
BNA_F
ClientSampled :
SB-8(13-15)

Tot Ion:	228	Resp:	35035
Ion Ratio	Lower	Upper	
228	100		
226	32.2	25.0	37.6
229	23.3	16.2	24.4

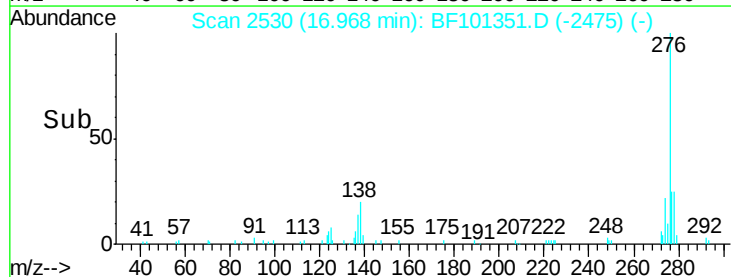
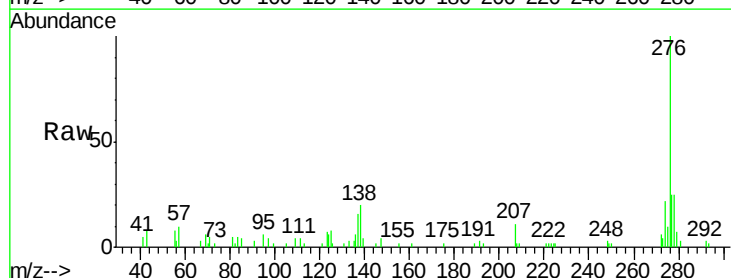
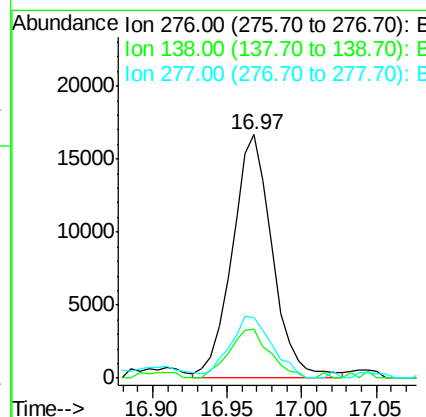
Manual Integrations
APPROVED

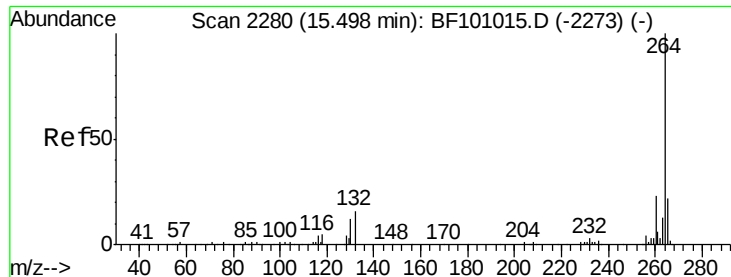
Sohil
12/13/2017 12:08:29 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.562 ng
RT: 16.97 min Scan# 2530
Delta R.T. 0.02 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Tgt Ion:	276	Resp:	31222
Ion Ratio	Lower	Upper	
276	100		
138	20.6	25.0	37.6#
277	26.4	20.1	30.1





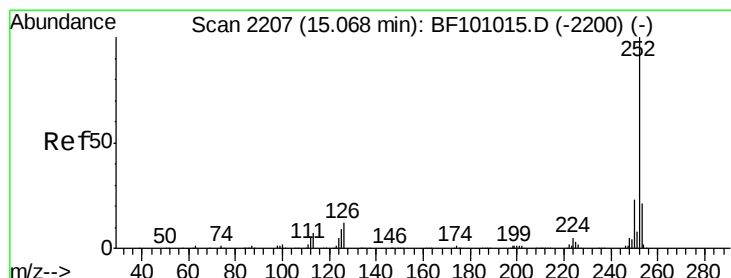
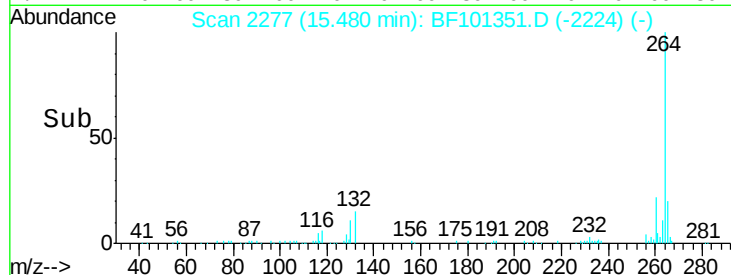
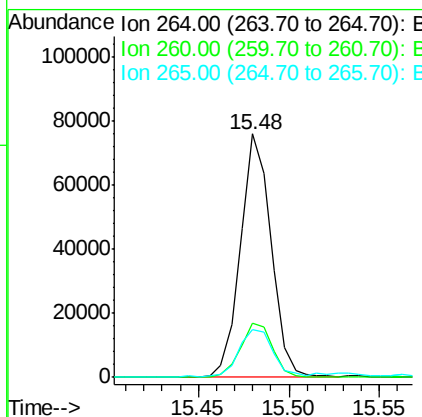
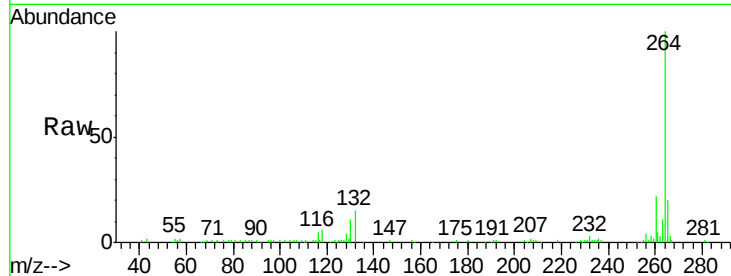
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Instrument :
BNA_F
ClientSampleId :
SB-8(13-15)

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.2	19.2	28.8
265	19.6	17.5	26.3

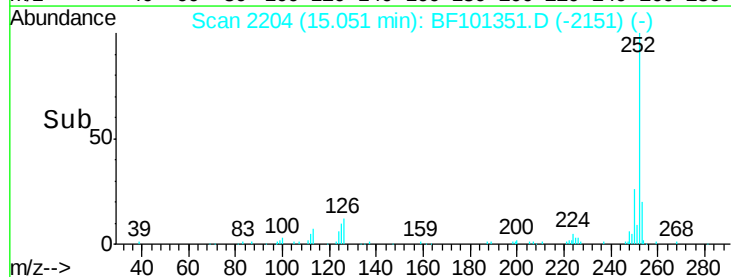
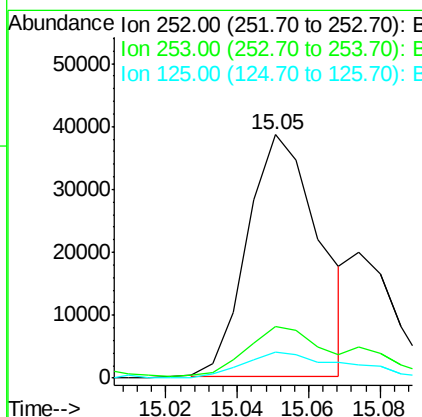
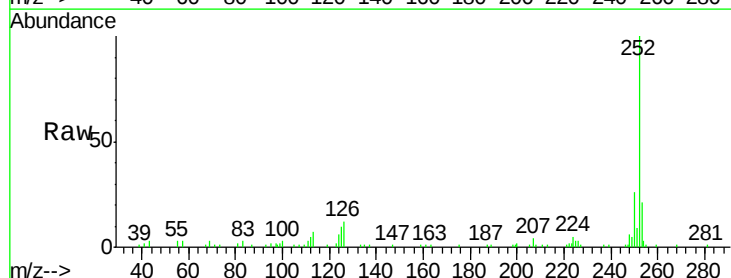
Manual Integrations
APPROVED

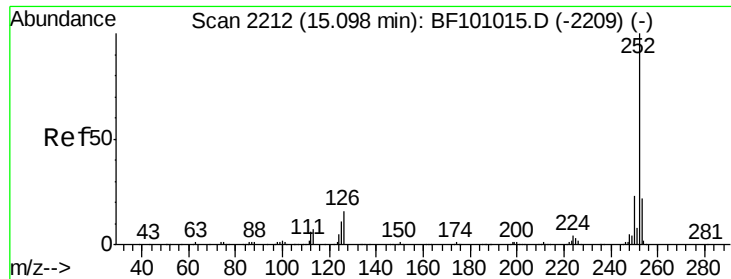
Sohil
12/13/2017 12:08:29 PM



#87
Benzo(b)fluoranthene
Concen: 9.981 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.0	25.6
125	10.4	9.0	13.6





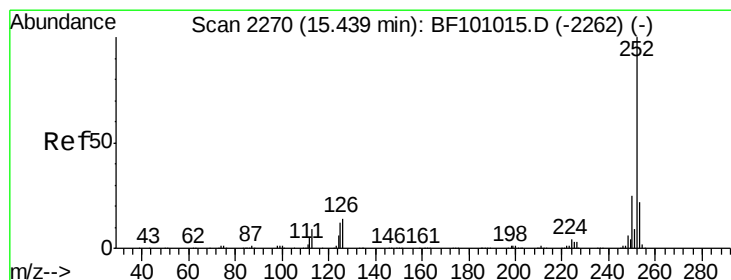
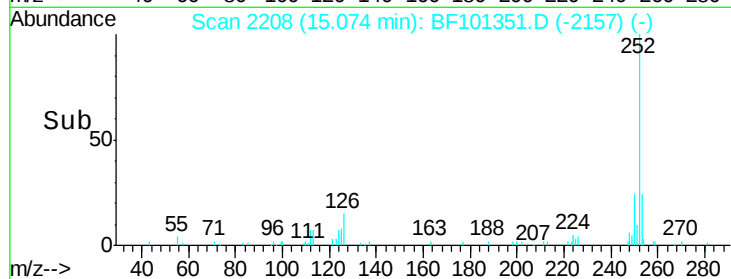
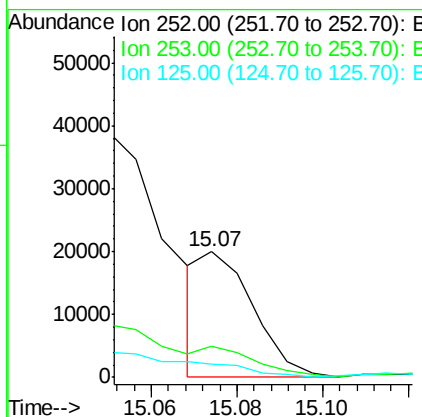
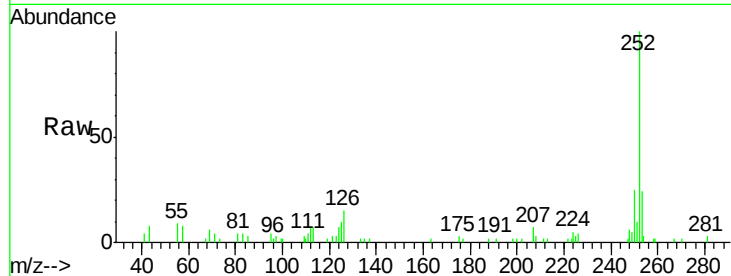
#88
Benzo(k)fluoranthene
Concen: 3.193 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.00 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Instrument :
BNA_F
ClientSampled :
SB-8(13-15)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	10.2	10.2	15.2

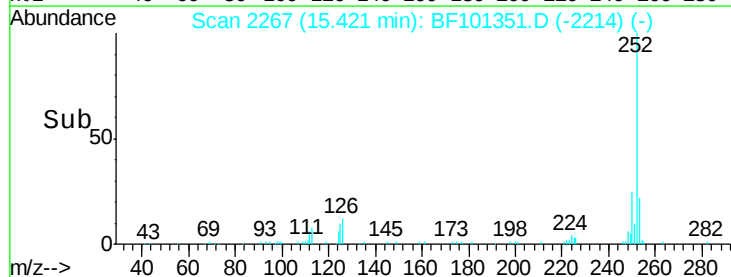
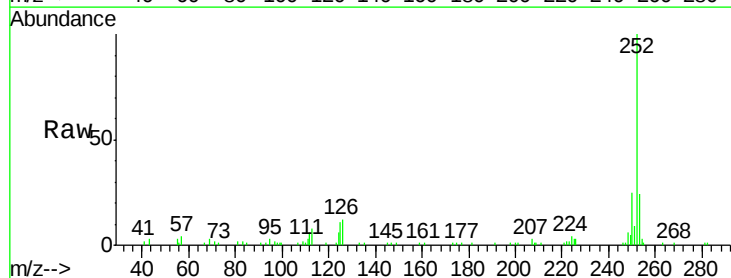
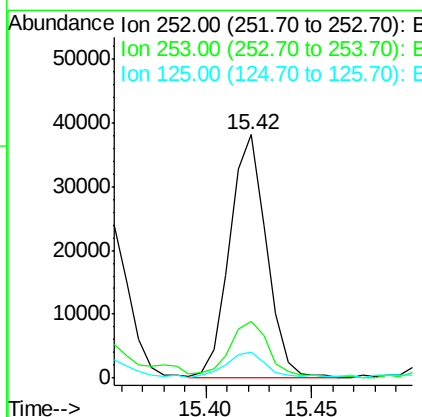
Manual Integrations
APPROVED

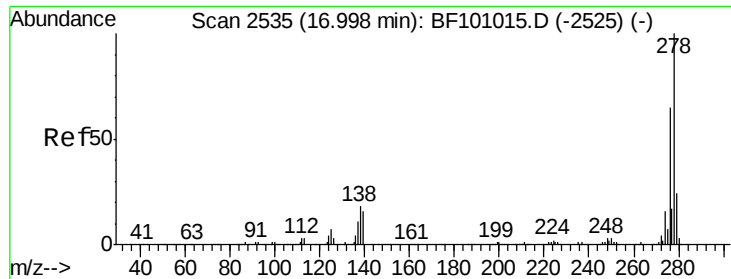
Sohil
12/13/2017 12:08:29 PM



#89
Benzo(a)pyrene
Concen: 9.467 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.01 min
Lab File: BF101351.D
Acq: 13 Dec 2017 00:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.1	25.7
125	10.9	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.081 ng

RT: 16.97 min Scan# 2530

Delta R.T. 0.01 min

Lab File: BF101351.D

Acq: 13 Dec 2017 00:55

Instrument :

BNA_F

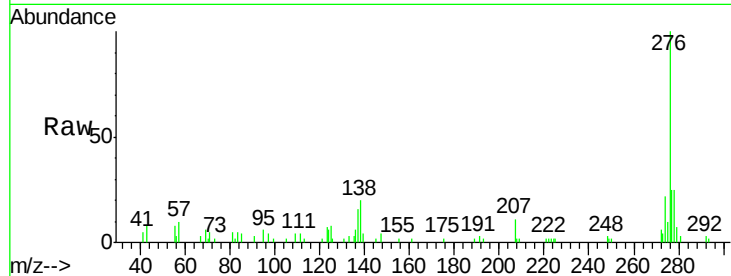
ClientSampled :

SB-8(13-15)

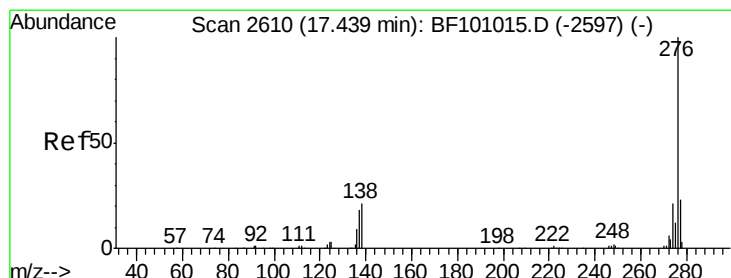
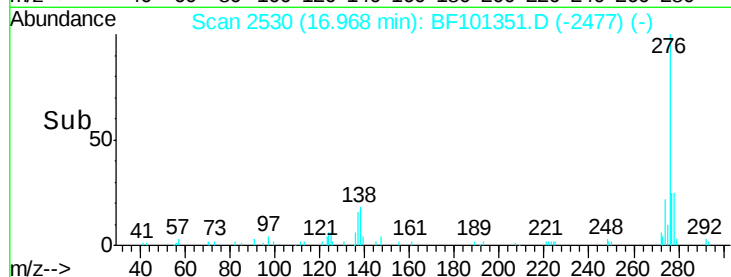
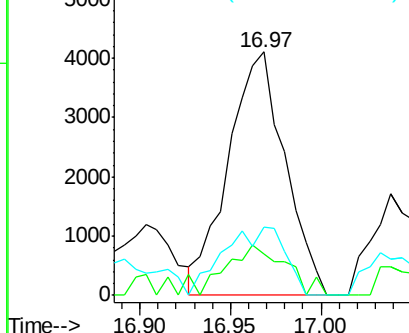
Tot Ion:	278	Resp:	8941
Ion Ratio	Lower	Upper	
278	100		
139	16.8	15.9	23.9
279	27.9	19.0	28.4

Manual Integrations
APPROVED

Sohil
12/13/2017 12:08:29 PM



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



#91

Benzo(g,h,i)perylene

Concen: 6.888 ng

RT: 17.42 min Scan# 2607

Delta R.T. 0.03 min

Lab File: BF101351.D

Acq: 13 Dec 2017 00:55

Tgt Ion:	276	Resp:	27887
Ion Ratio	Lower	Upper	
276	100		
277	24.9	17.9	26.9
138	18.9	21.8	32.8#

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

