

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
 Data File : BF101030.D
 Acq On : 30 Nov 2017 21:05
 Operator : SJ/JU
 Sample : I6610-15 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-X(0-2)-20171127

Manual Integrations
 APPROVED

Quant Time: Dec 01 02:31:51 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 30 16:01:41 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	54192	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	205216	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	84723	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	128285	20.00	ng	0.00
75) Chrysene-d12	14.03	240	126665	20.00	ng	0.00
86) Perylene-d12	15.50	264	113488	20.00	ng	0.00

Sohil

12/1/2017 11:13:00 AM

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	166173	50.67	ng	0.00
7) Phenol-d6	6.48	99	201149	50.52	ng	0.00
23) Nitrobenzene-d5	7.42	82	119319	34.68	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	40303	39.60	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	217592	35.14	ng	0.00
78) Terphenyl-d14	12.96	244	146909	25.37	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
49) Dimethylphthalate	9.60	163	22521	3.296	ng	# 99
51) Acenaphthene	9.92	154	11268	2.077	ng	97
57) Fluorene	10.44	166	12894	2.029	ng	99
70) Phenanthrene	11.40	178	181483	25.689	ng	99
71) Anthracene	11.46	178	44902	6.280	ng	96
72) Carbazole	11.61	167	13107	2.006	ng	98
74) Fluoranthene	12.60	202	297103	37.939	ng	92
77) Pyrene	12.83	202	266246	30.462	ng	100
80) Benzo(a)anthracene	14.02	228	162875	20.366	ng	99
82) Chrysene	14.05	228	151041m	20.336	ng	
83) Bis(2-ethylhexyl)phthalate	13.99	149	215557m	39.232	ng	
85) Indeno(1,2,3-cd)pyrene	16.97	276	52950	8.019	ng	# 89
87) Benzo(b)fluoranthene	15.07	252	171184m	25.183	ng	
88) Benzo(k)fluoranthene	15.09	252	56467m	8.431	ng	
89) Benzo(a)pyrene	15.44	252	115579	18.702	ng	97
90) Dibenzo(a,h)anthracene	16.98	278	13673	2.510	ng	# 70
91) Benzo(g,h,i)perylene	17.43	276	48716	9.488	ng	94

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

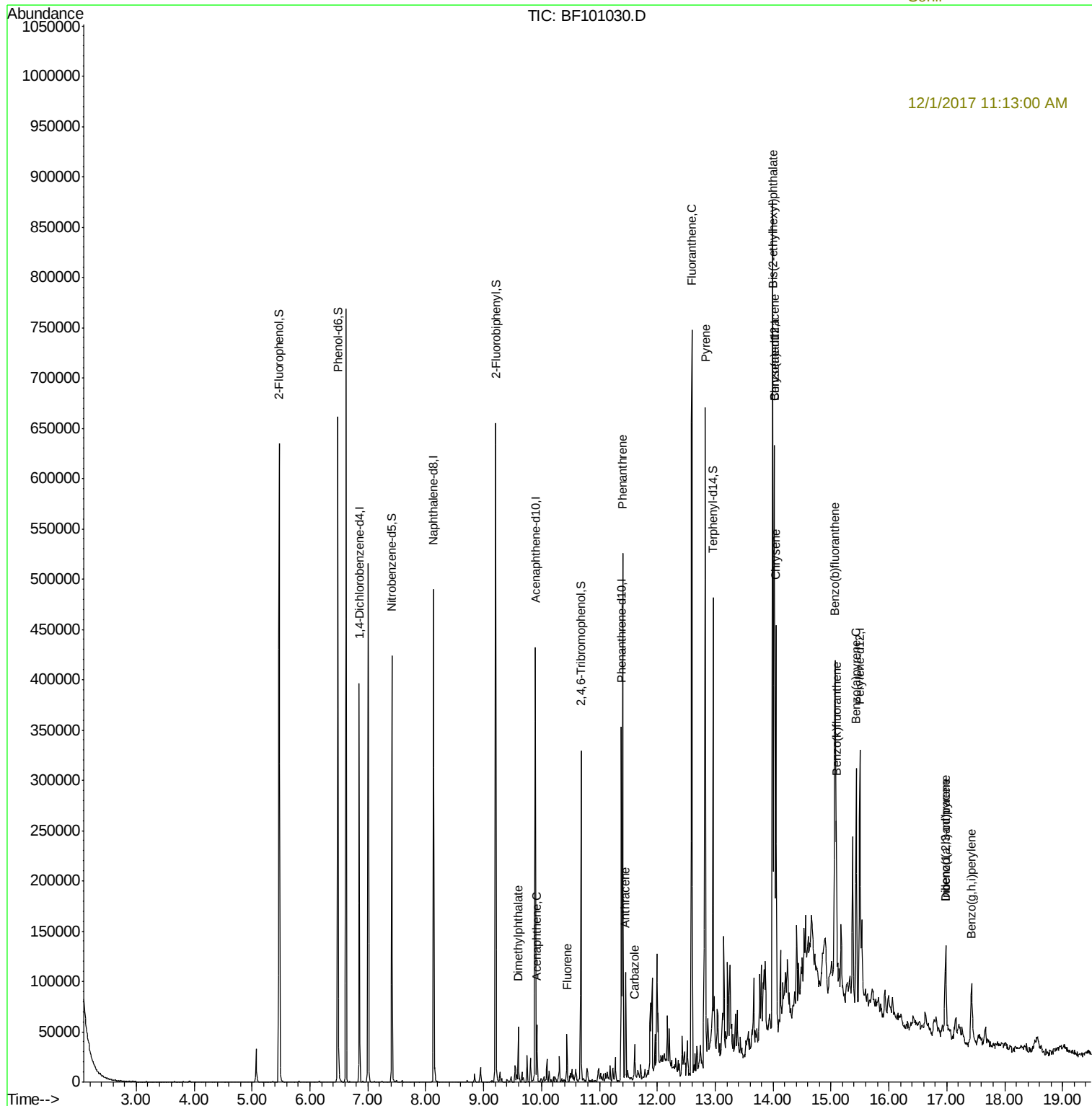
Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
Data File : BF101030.D
Acq On : 30 Nov 2017 21:05
Operator : SJ/JU
Sample : I6610-15 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

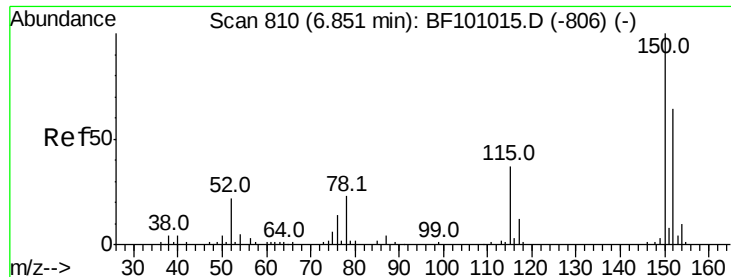
Instrument :
BNA_F
ClientSampleId :
SB-X(0-2)-20171127

Manual Integrations
APPROVED

Quant Time: Dec 01 02:31:51 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 30 16:01:41 2017
Response via : Initial Calibration

Sohil





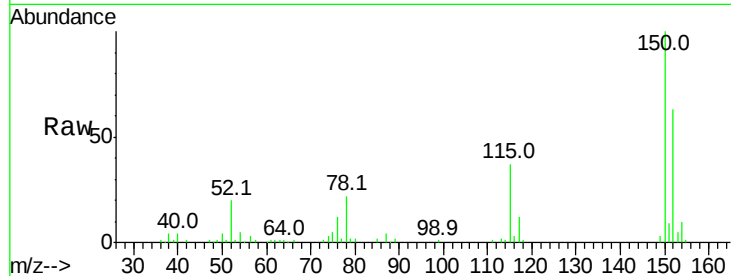
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Instrument :
BNA_F
ClientSampleId :
SB-X(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	124.6	186.8
115	58.7	50.1	75.1

Manual Integrations
APPROVED

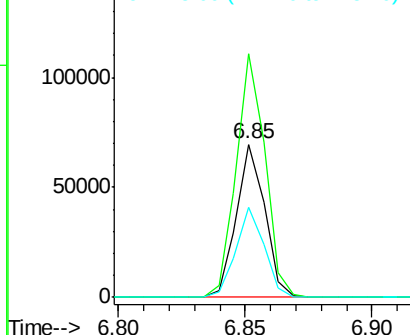


Abundance

Ion 152.00 (151.70 to 152.70): E

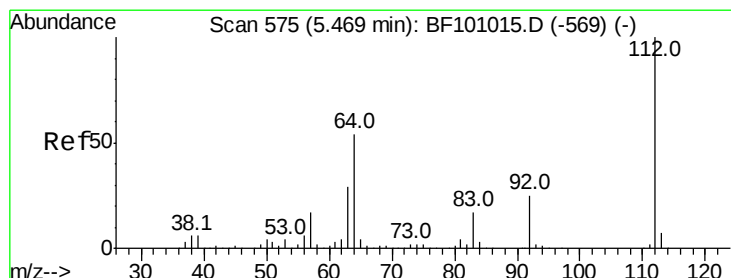
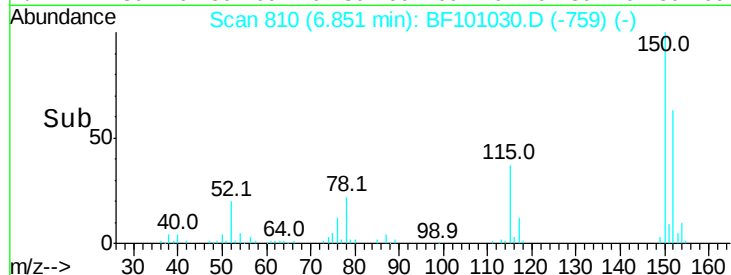
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Sohil

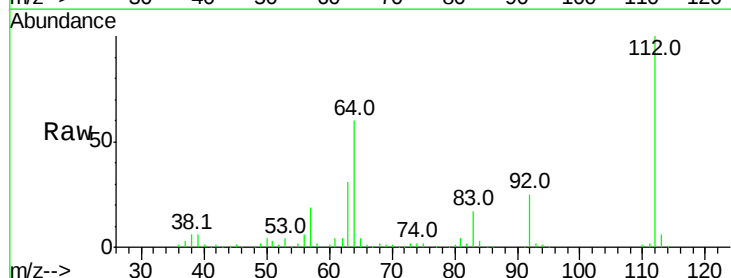
12/1/2017 11:13:00 AM



#5

2-Fluorophenol
Concen: 50.670 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.00 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.1	47.9	71.9
63	30.8	23.7	35.5

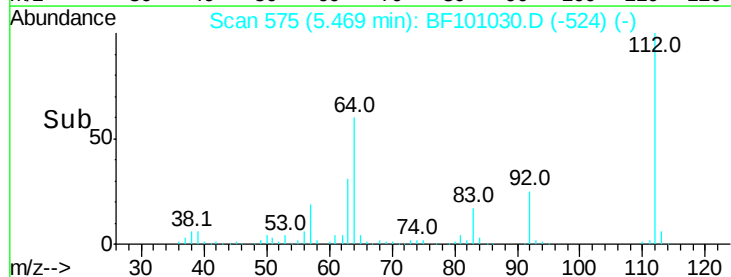
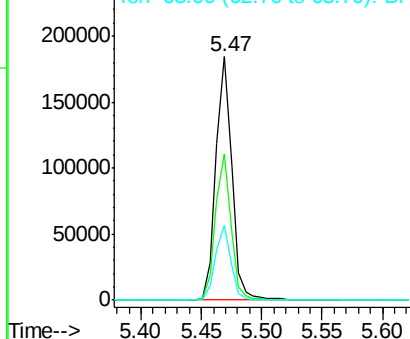


Abundance

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: 50.519 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Instrument :

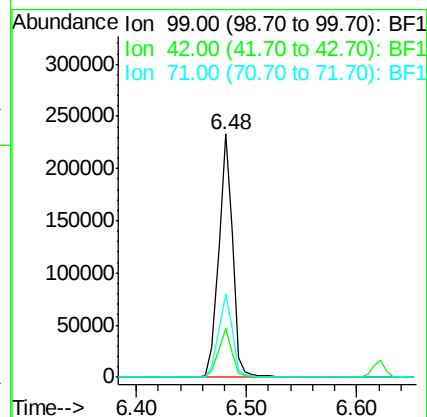
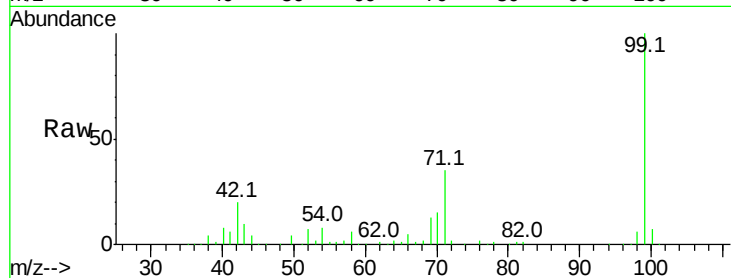
BNA_F

ClientSampleId :

SB-X(0-2)-20171127

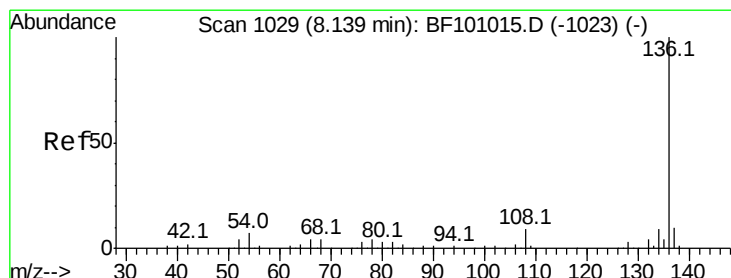
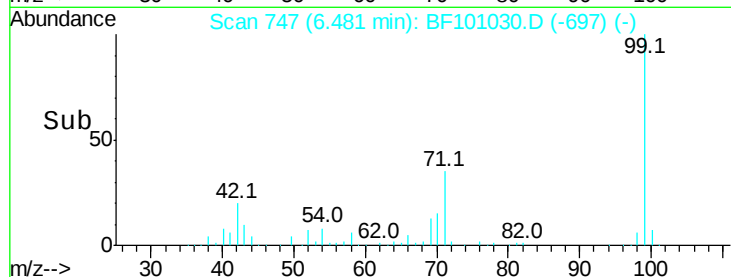
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		201149		
42	20.1	14.5	21.7		
71	34.6	25.4	38.0		

Manual Integrations
APPROVED



Sohil

12/1/2017 11:13:00 AM



#21

Naphthalene-d8

Concen: 20.000 ng

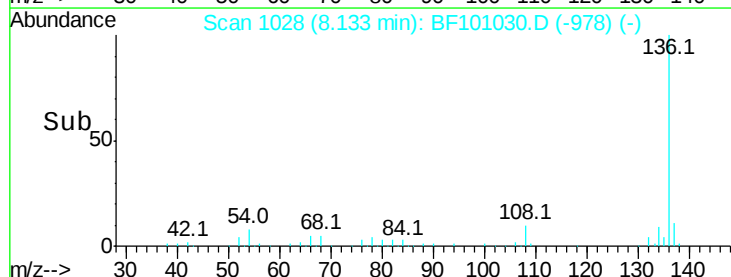
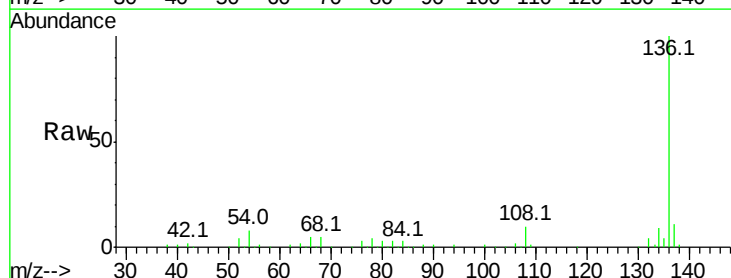
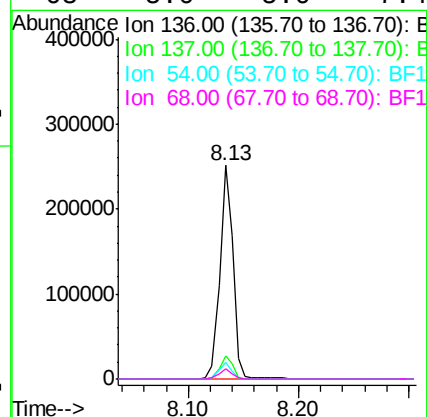
RT: 8.13 min Scan# 1028

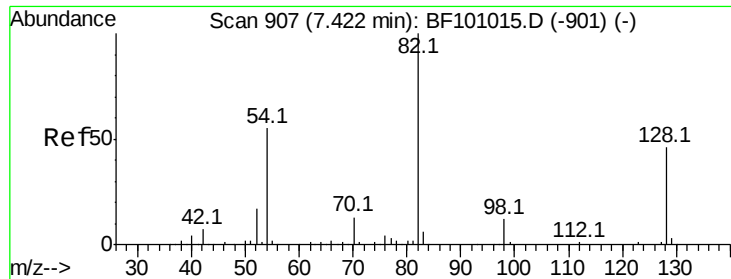
Delta R.T. -0.01 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		205216		
137	11.0	8.9	13.3		
54	8.0	6.6	9.8		
68	5.0	5.0	7.4		



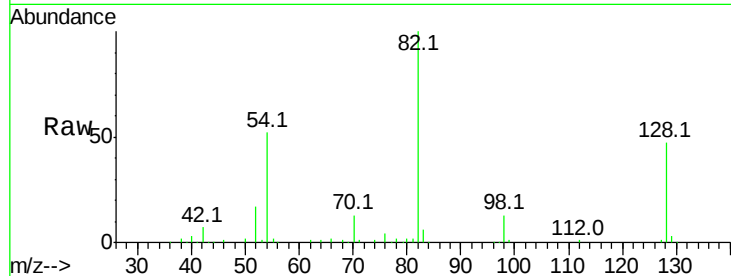


#23
 Nitrobenzene-d5
 Concen: 34.684 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: BF101030.D
 Acq: 30 Nov 2017 21:05

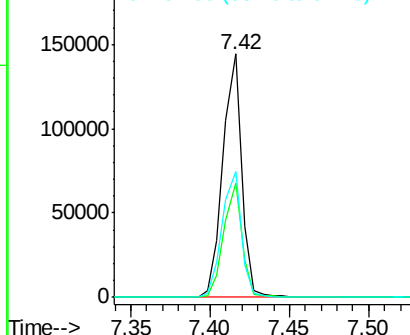
Instrument :
 BNA_F
 ClientSampleId :
 SB-X(0-2)-20171127

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.1	36.1	54.1	
54	51.9	41.4	62.2	

Manual Integrations
 APPROVED

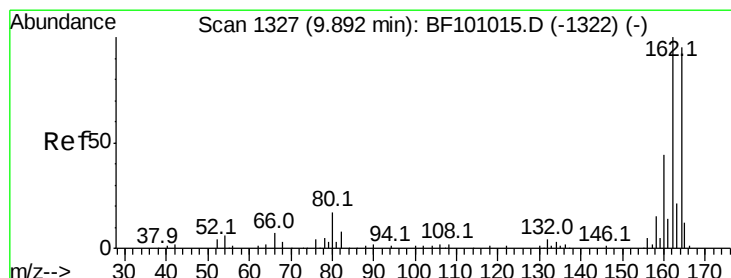
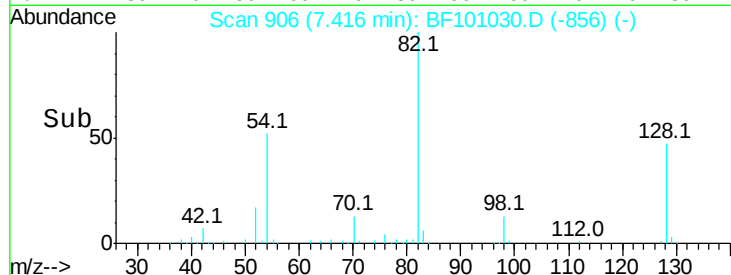


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF1



Sohil

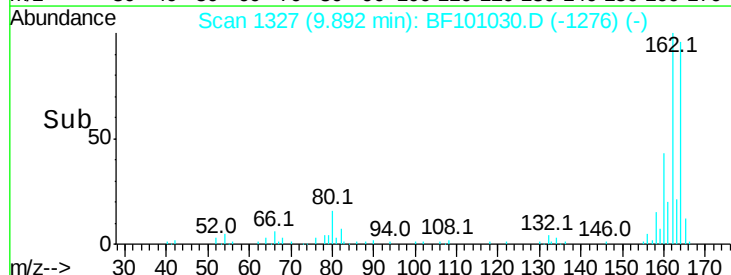
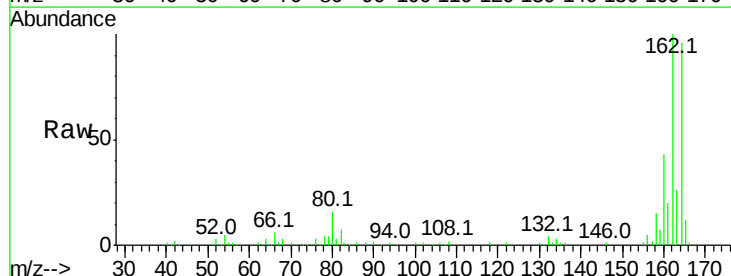
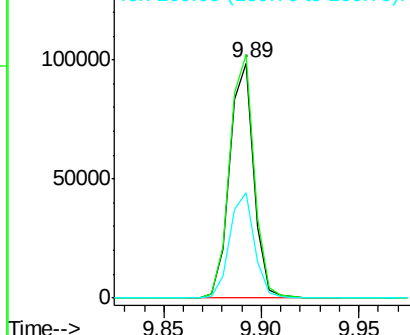
12/1/2017 11:13:00 AM

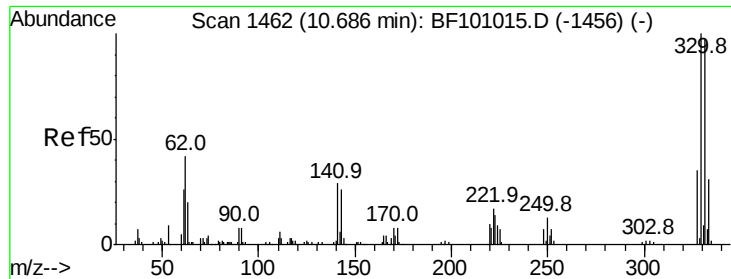


#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: BF101030.D
 Acq: 30 Nov 2017 21:05

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.7	86.1	129.1	
160	44.9	38.3	57.5	

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





#41

2,4,6-Tribromophenol

Concen: 39.600 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Instrument :

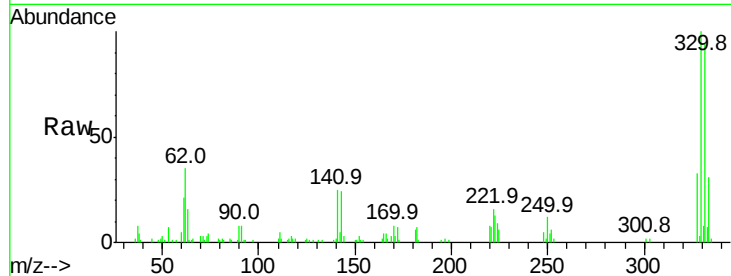
BNA_F

ClientSampleId :

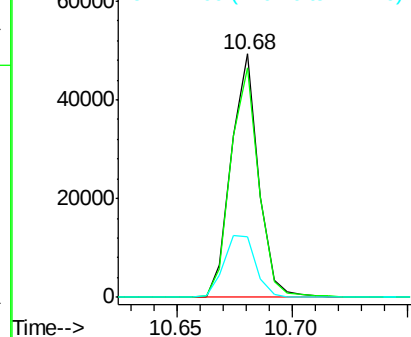
SB-X(0-2)-20171127

Tot Ion:	330	Resp:	40303
Ion Ratio	Lower	Upper	
330	100		
332	97.3	77.0	115.6
141	29.5	29.9	44.9#

Manual Integrations
APPROVED

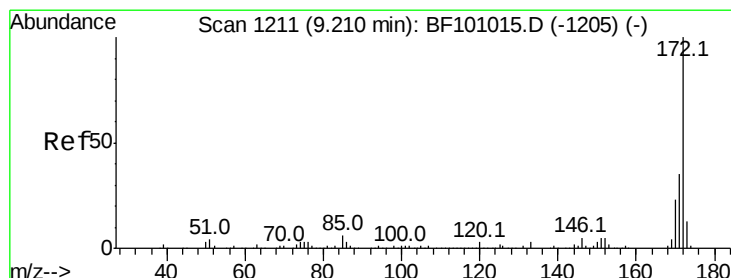
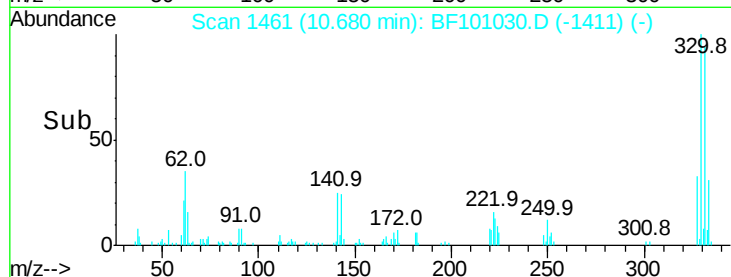


Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



Sohil

12/1/2017 11:13:00 AM



#44

2-Fluorobiphenyl

Concen: 35.139 ng

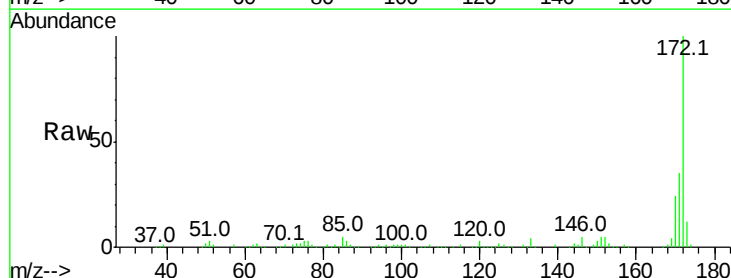
RT: 9.21 min Scan# 1211

Delta R.T. 0.00 min

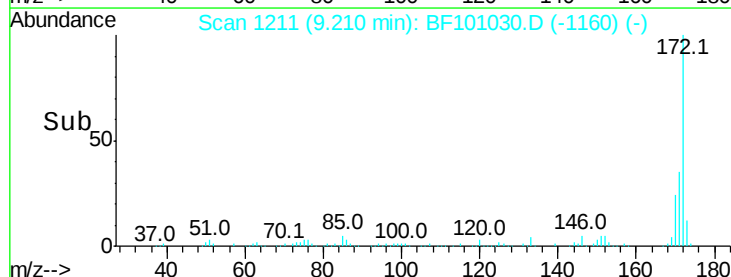
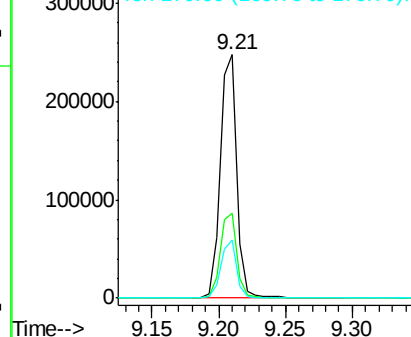
Lab File: BF101030.D

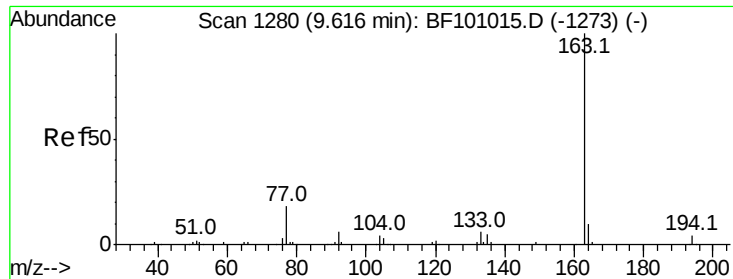
Acq: 30 Nov 2017 21:05

Tgt Ion:	172	Resp:	217592
Ion Ratio	Lower	Upper	
172	100		
171	35.0	29.7	44.5
170	23.7	19.6	29.4



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



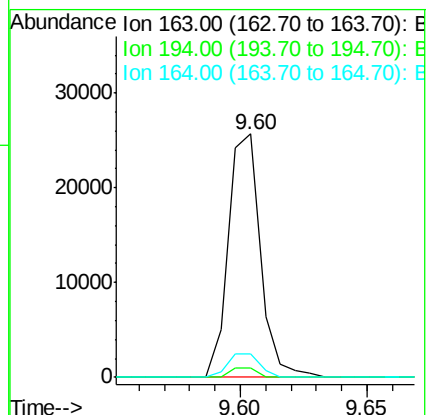
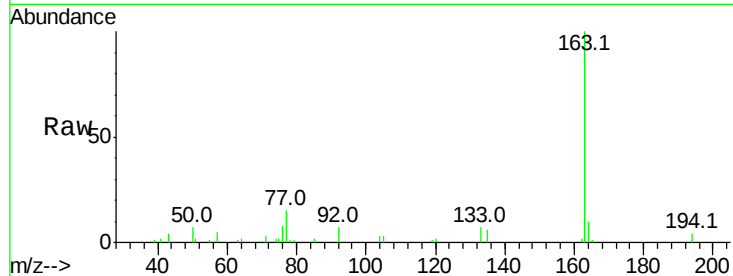


#49
Dimethylphthalate
Concen: 3.296 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Instrument :
BNA_F
ClientSampleId :
SB-X(0-2)-20171127

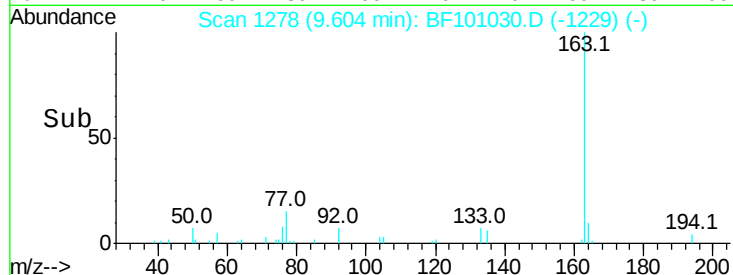
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.1	2.7	4.1#	
164	9.9	8.2	12.2	

Manual Integrations
APPROVED



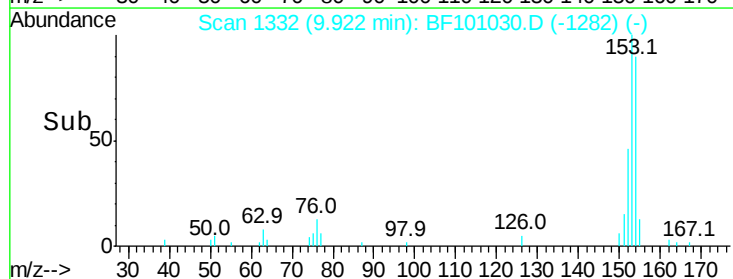
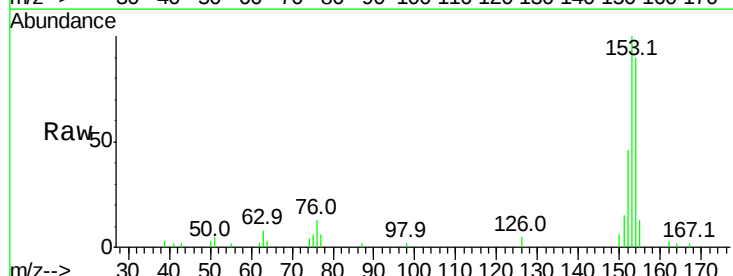
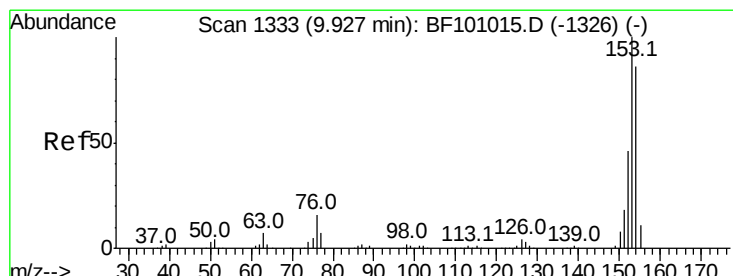
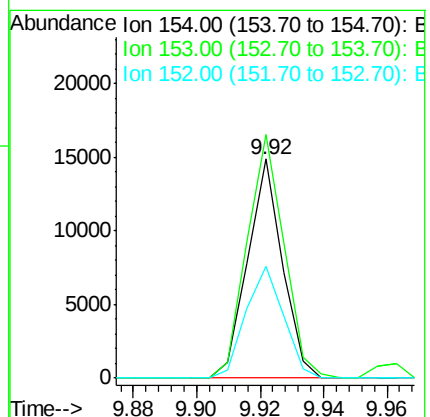
Sohil

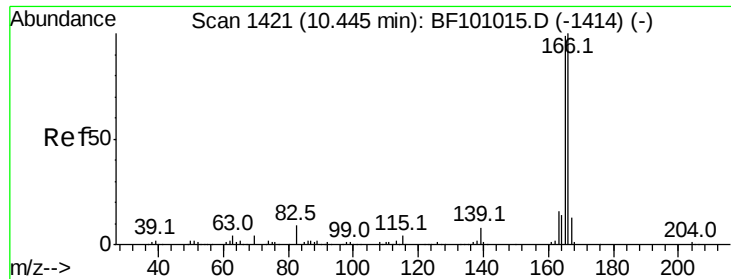
12/1/2017 11:13:00 AM



#51
Acenaphthene
Concen: 2.077 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	111.3	91.2	136.8	
152	51.3	43.8	65.8	



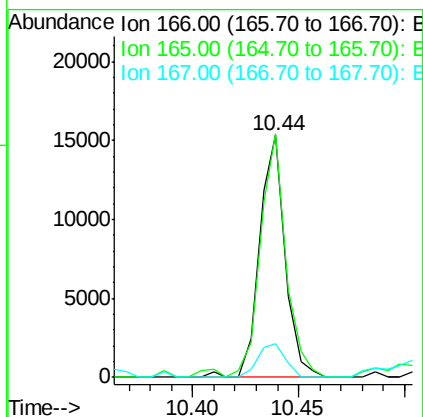
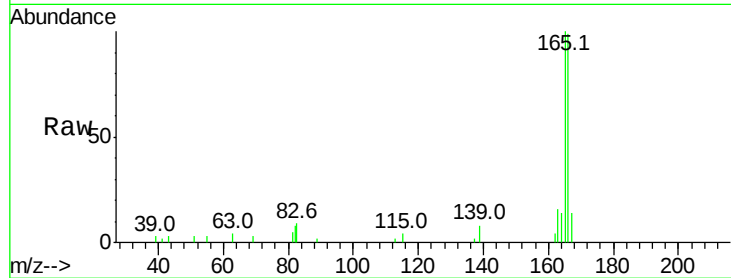


#57
Fluorene
 Concen: 2.029 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF101030.D
 Acq: 30 Nov 2017 21:05

Instrument :
 BNA_F
 ClientSampleId :
 SB-X(0-2)-20171127

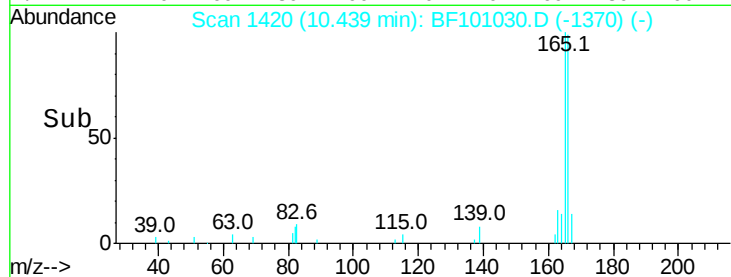
Tot Ion	Ratio	Lower	Upper
166	100		
165	100.5	79.8	119.8
167	14.1	10.6	16.0

Manual Integrations
 APPROVED



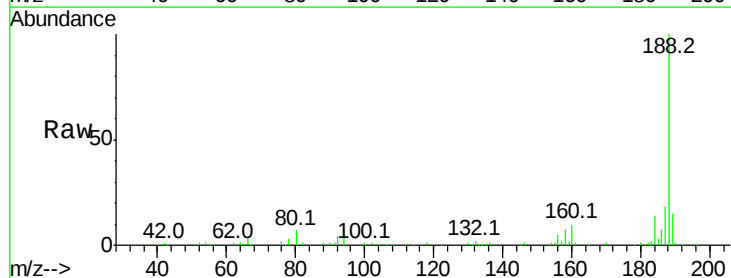
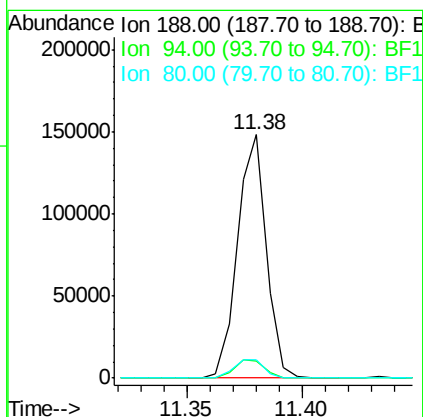
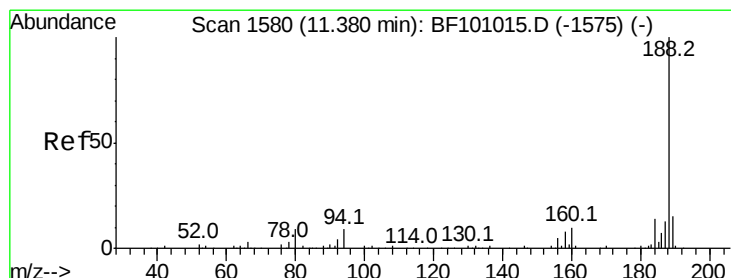
Sohil

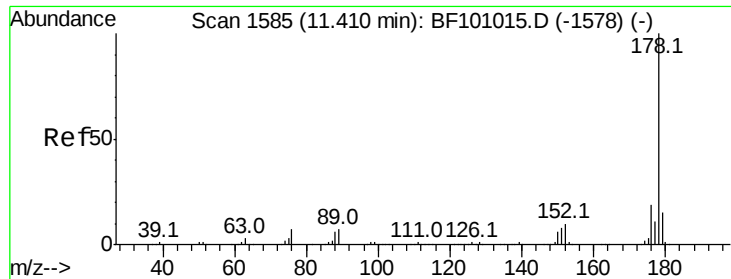
12/1/2017 11:13:00 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: BF101030.D
 Acq: 30 Nov 2017 21:05

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.0	8.5	12.7#
80	7.5	9.2	13.8#



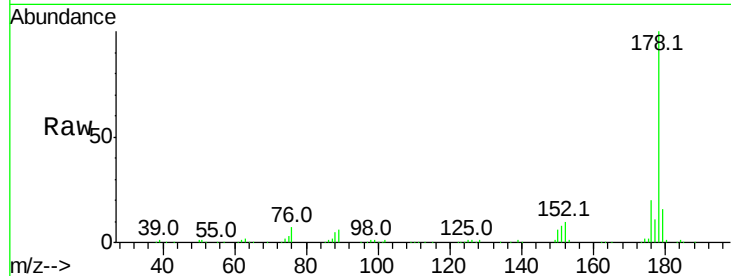


#70
Phenanthrene
Concen: 25.689 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Instrument :
BNA_F
ClientSampleId :
SB-X(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.7	13.0	19.6

Manual Integrations
APPROVED

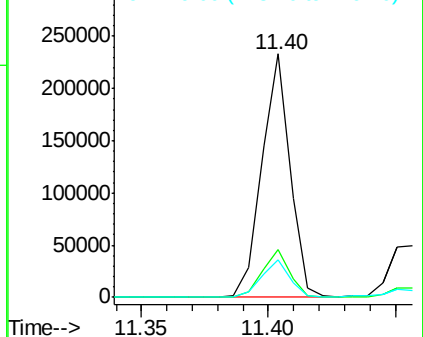


Abundance

Ion 178.00 (177.70 to 178.70): E

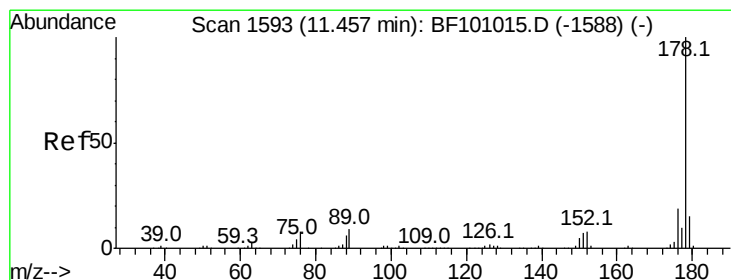
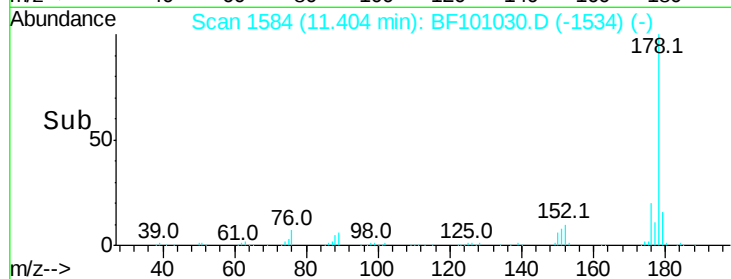
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Sohil

12/1/2017 11:13:00 AM



#71
Anthracene
Concen: 6.280 ng
RT: 11.46 min Scan# 1593
Delta R.T. 0.00 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

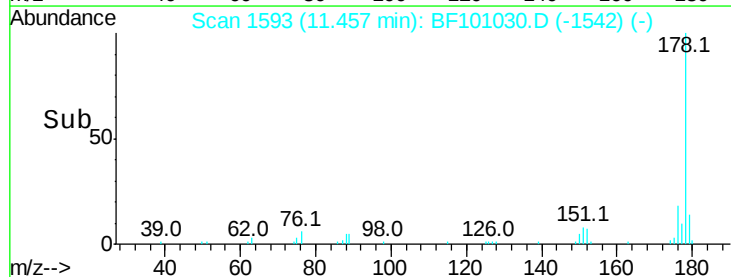
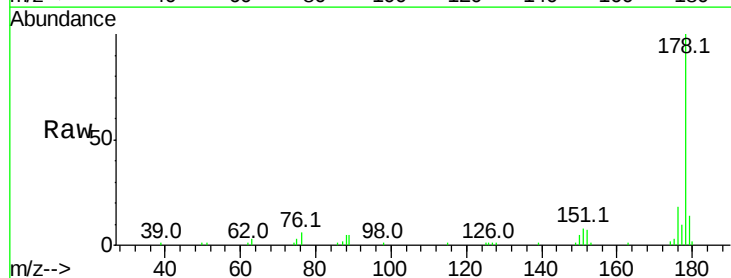
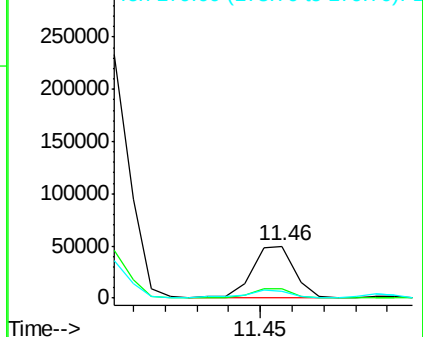
Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.2
179	14.2	12.6	19.0

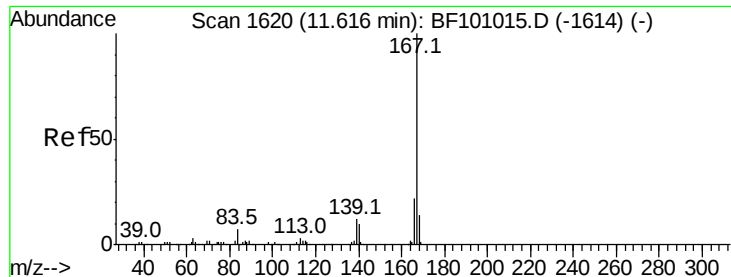
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.006 ng

RT: 11.61 min Scan# 1619

Delta R.T. -0.01 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Instrument :

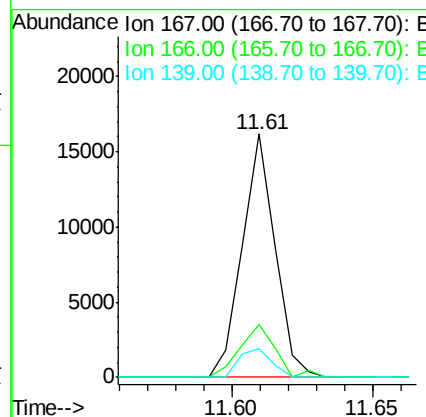
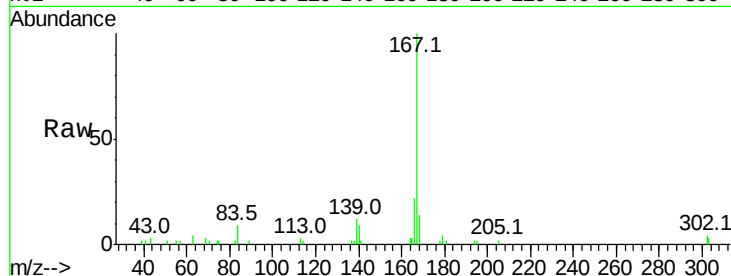
BNA_F

ClientSampleId :

SB-X(0-2)-20171127

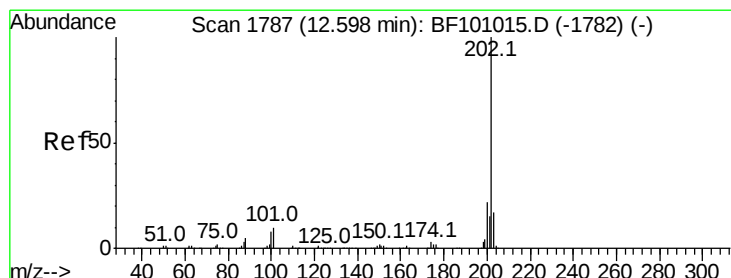
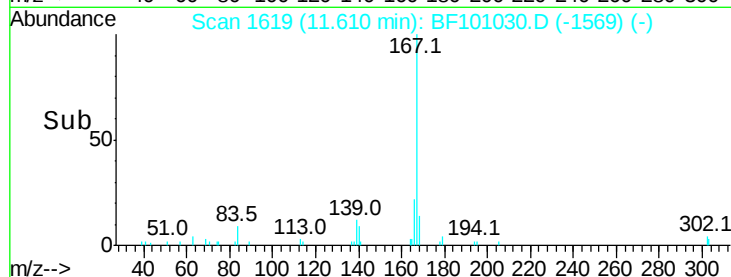
Tot Ion:	167	Resp:	13107
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.6	26.4
139	12.0	10.9	16.3

Manual Integrations
APPROVED



Sohil

12/1/2017 11:13:00 AM



#74

Fluoranthene

Concen: 37.939 ng

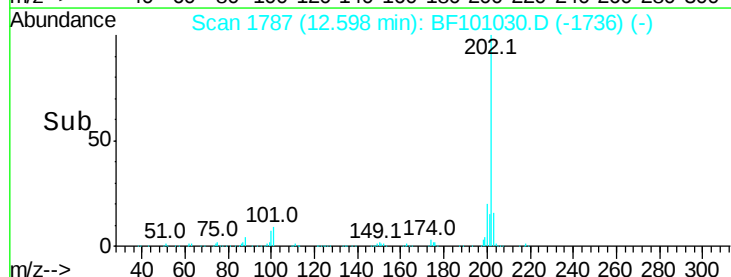
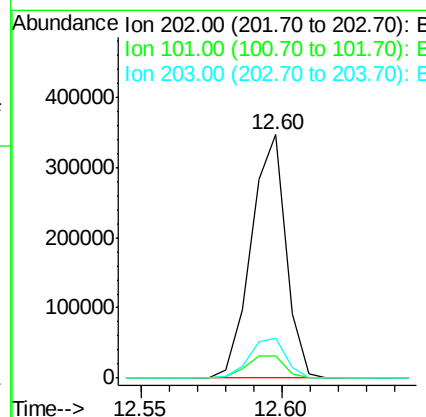
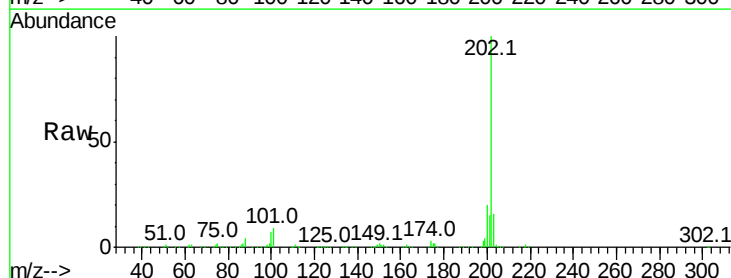
RT: 12.60 min Scan# 1787

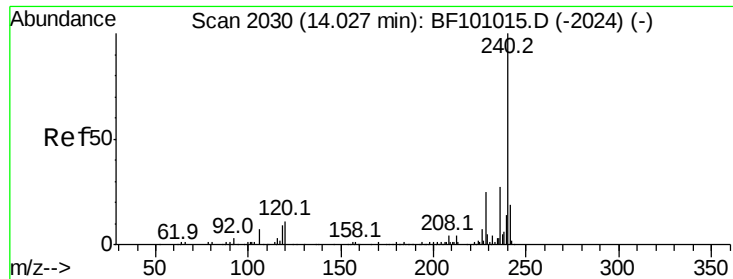
Delta R.T. 0.00 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Tgt Ion:	202	Resp:	297103
Ion Ratio	Lower	Upper	
202	100		
101	8.9	0.0	34.1
203	16.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Instrument :

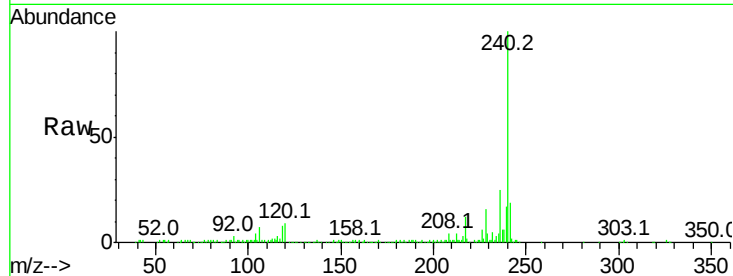
BNA_F

ClientSampleId :

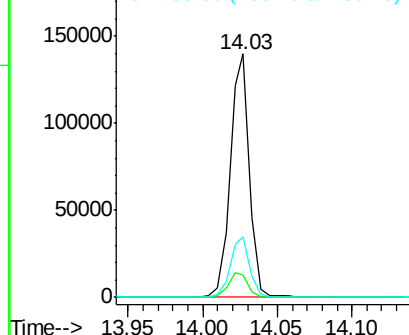
SB-X(0-2)-20171127

Tot Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	9.1	9.5	14.3#
236	25.1	20.7	31.1

Manual Integrations
APPROVED

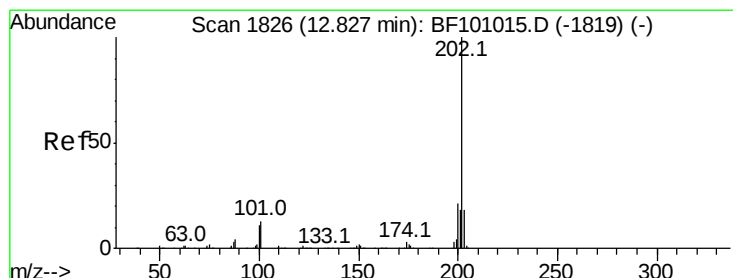
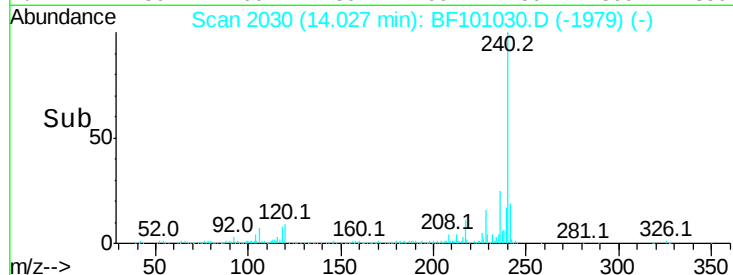


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Sohil

12/1/2017 11:13:00 AM



#77

Pyrene

Concen: 30.462 ng

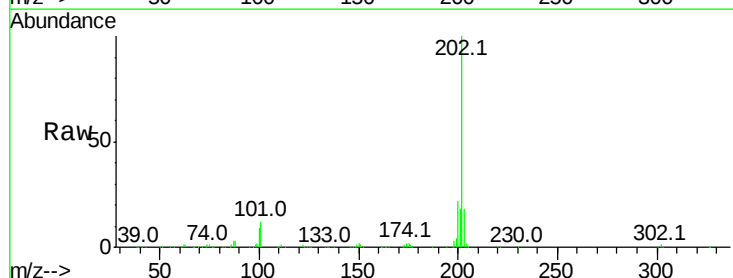
RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

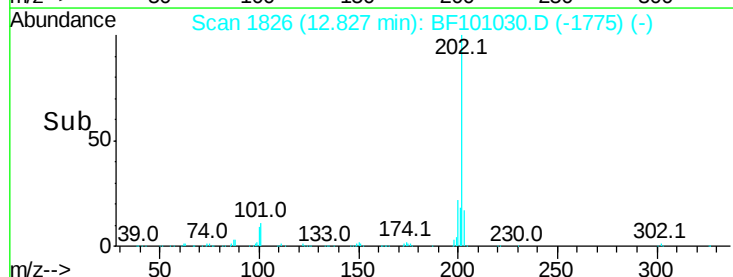
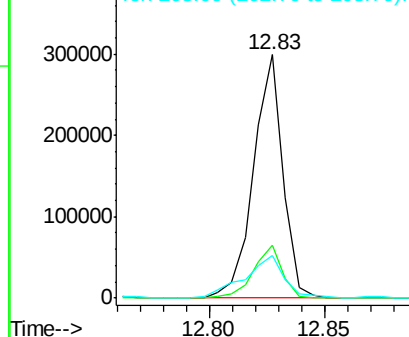
Lab File: BF101030.D

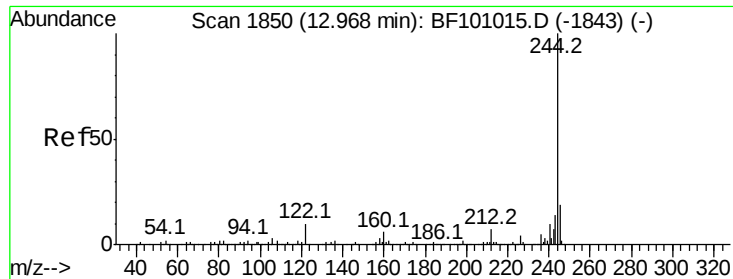
Acq: 30 Nov 2017 21:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.9	17.4	26.2
203	17.6	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: 25.368 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Instrument :

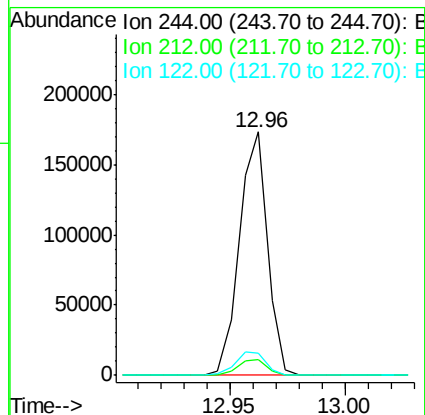
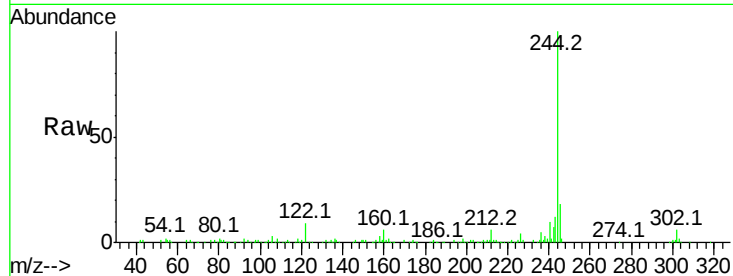
BNA_F

ClientSampleId :

SB-X(0-2)-20171127

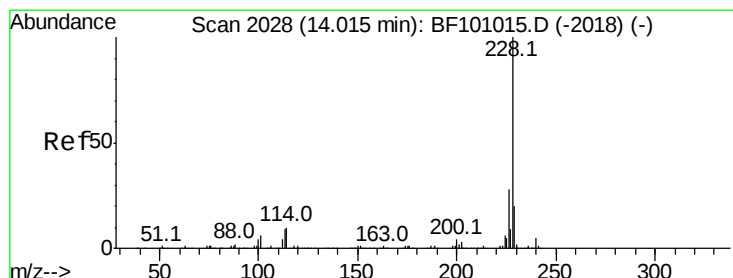
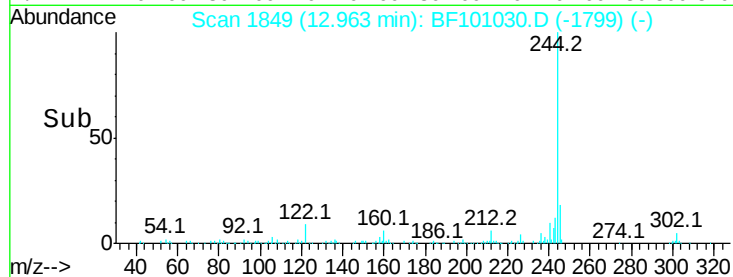
Tot Ion:	244	Resp:	146909
Ion Ratio		Lower	Upper
244	100		
212	6.3	5.4	8.0
122	9.2	11.0	16.4#

Manual Integrations
APPROVED



Sohil

12/1/2017 11:13:00 AM



#80

Benzo(a)anthracene

Concen: 20.366 ng

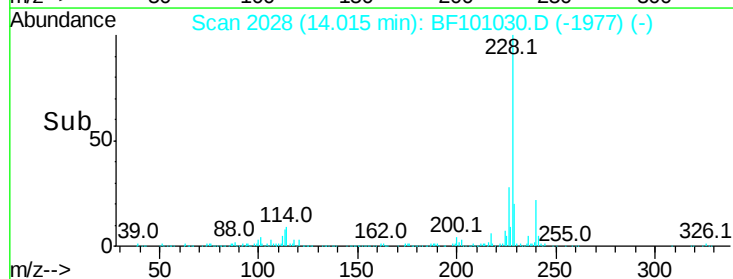
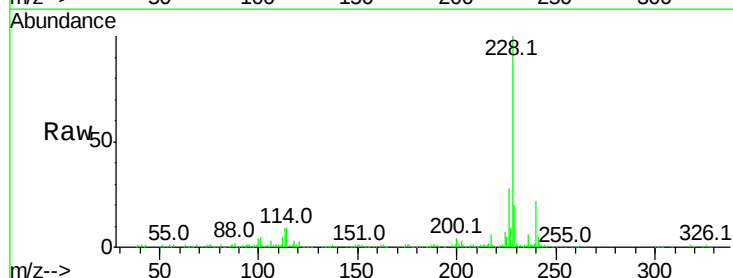
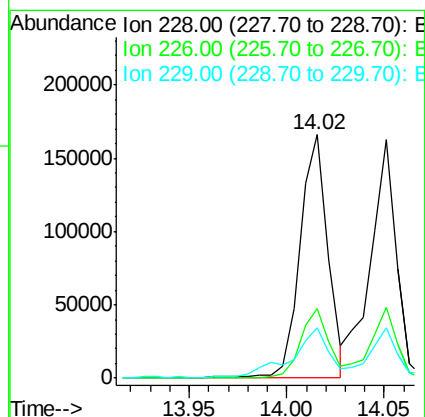
RT: 14.02 min Scan# 2028

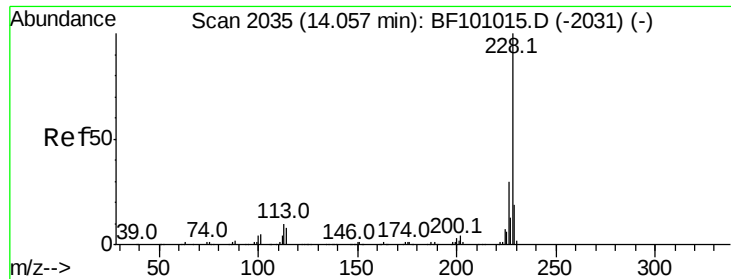
Delta R.T. 0.00 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Tgt Ion:	228	Resp:	162875
Ion Ratio		Lower	Upper
228	100		
226	28.3	22.6	33.8
229	20.4	15.8	23.6





#82

Chrysene

Concen: 20.336 ng m

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Instrument :

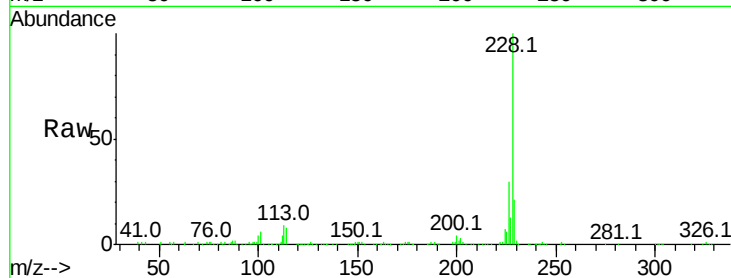
BNA_F

ClientSampleId :

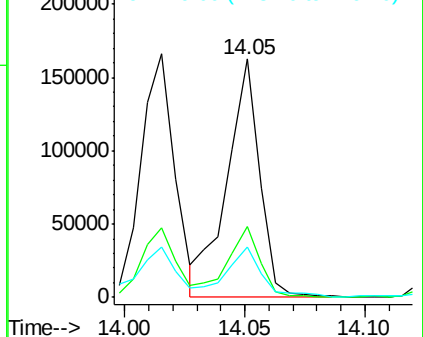
SB-X(0-2)-20171127

Tot Ion:	228	Resp:	151041
Ion Ratio	Lower	Upper	
228	100		
226	29.9	25.0	37.6
229	20.9	16.2	24.4

Manual Integrations
APPROVED

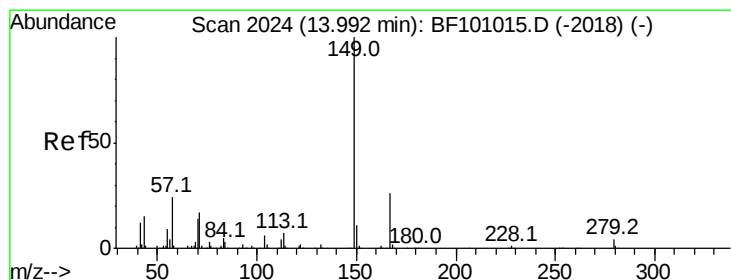
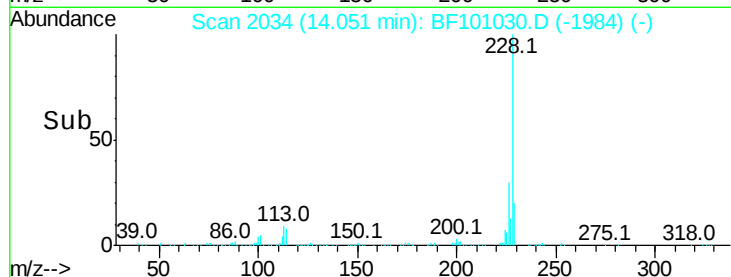


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Sohil

12/1/2017 11:13:00 AM



#83

Bis(2-ethylhexyl)phthalate

Concen: 39.232 ng m

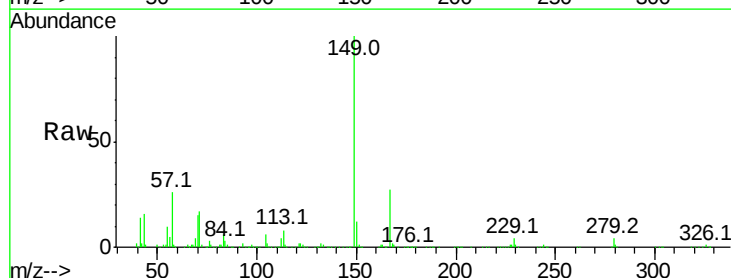
RT: 13.99 min Scan# 2024

Delta R.T. 0.00 min

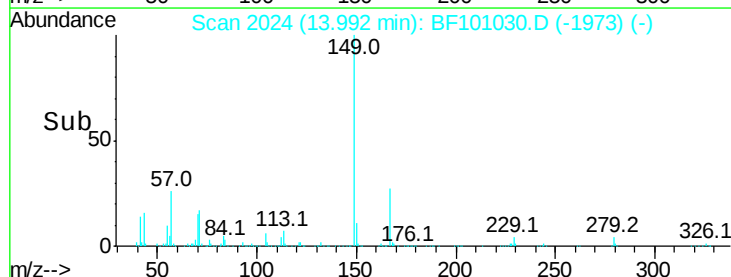
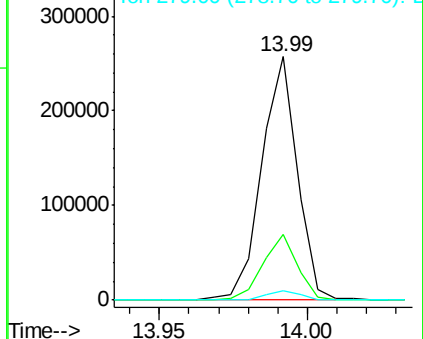
Lab File: BF101030.D

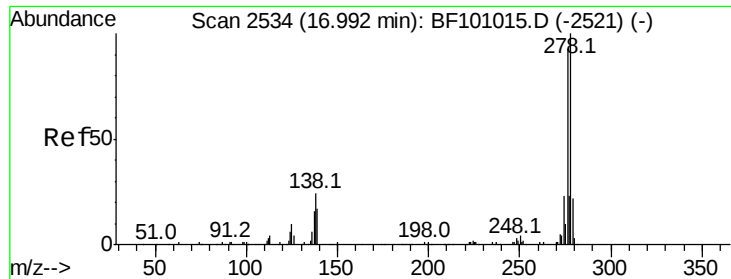
Acq: 30 Nov 2017 21:05

Tgt Ion:	149	Resp:	215557
Ion Ratio	Lower	Upper	
149	100		
167	26.8	21.3	31.9
279	3.8	3.0	4.4



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



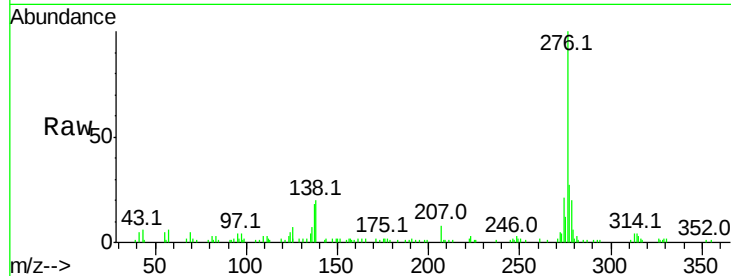


#85
Indeno(1,2,3-cd)pyrene
Concen: 8.019 ng
RT: 16.97 min Scan# 2531
Delta R.T. -0.02 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

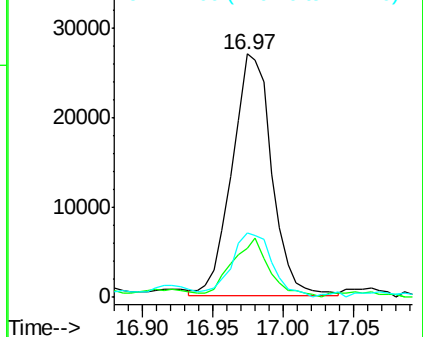
Instrument :
BNA_F
ClientSampleId :
SB-X(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.3	25.0	37.6#
277	27.9	20.1	30.1

Manual Integrations
APPROVED

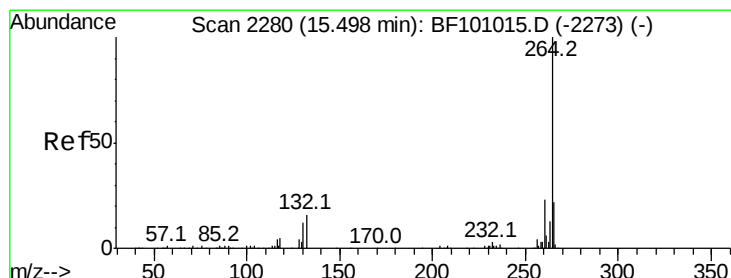
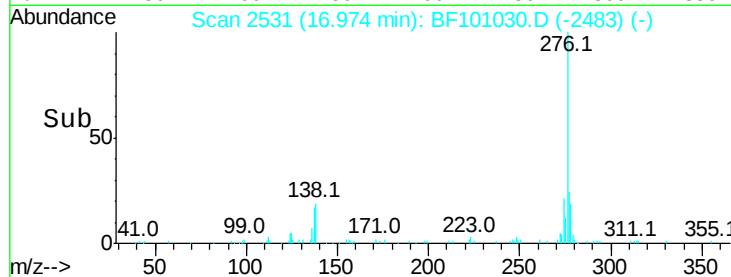


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



Sohil

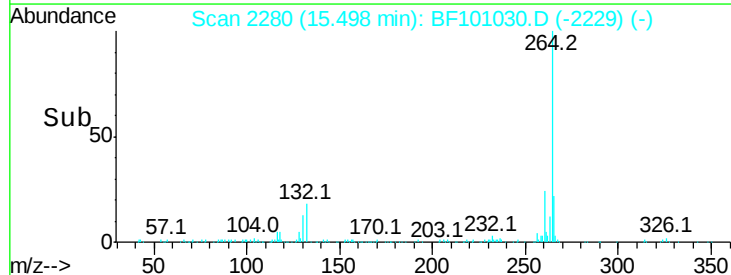
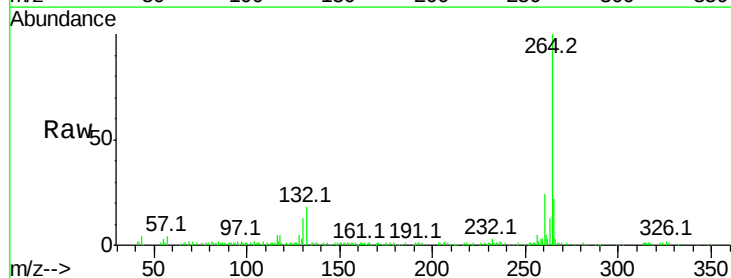
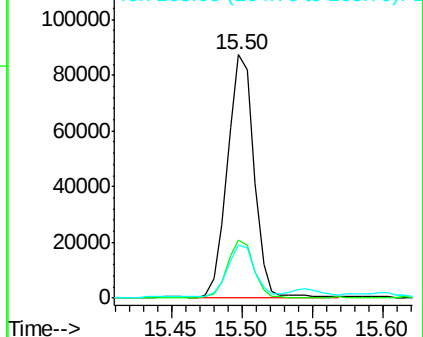
12/1/2017 11:13:00 AM

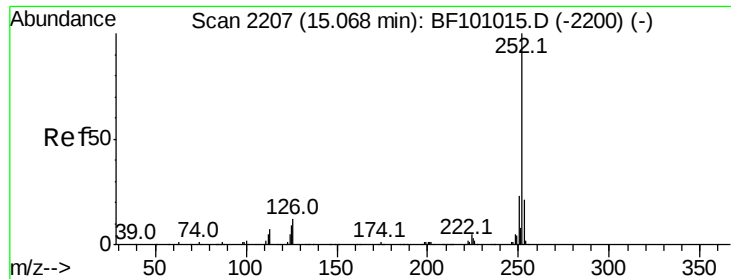


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.00 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.5	17.5	26.3

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





#87

Benzo(b)fluoranthene

Concen: 25.183 ng m

RT: 15.07 min Scan# 2207

Delta R.T. 0.00 min

Lab File: BF101030.D

Acq: 30 Nov 2017 21:05

Instrument :

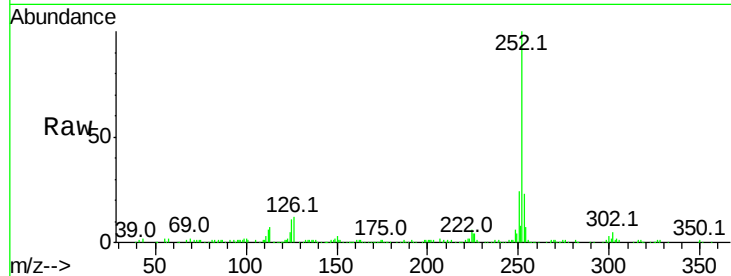
BNA_F

ClientSampleId :

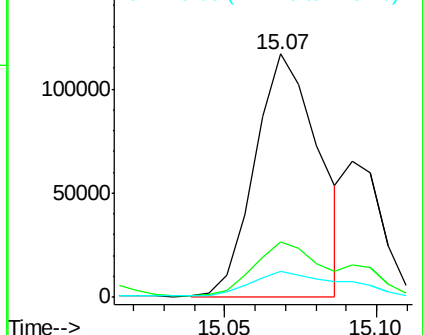
SB-X(0-2)-20171127

Tot Ion:	252	Resp:	171184
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.0	25.6
125	10.7	9.0	13.6

Manual Integrations
APPROVED

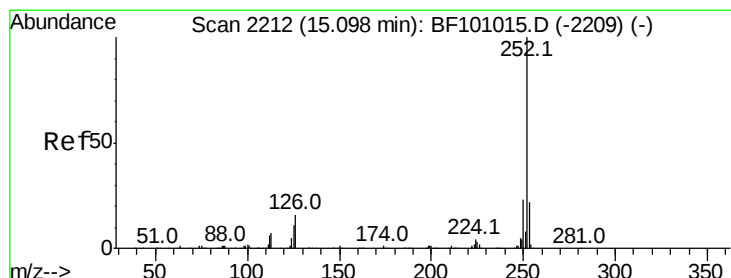
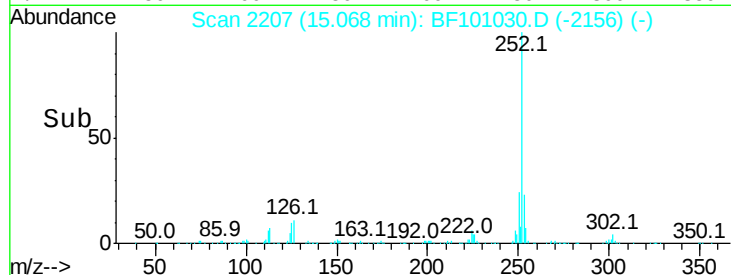


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Sohil

12/1/2017 11:13:00 AM



#88

Benzo(k)fluoranthene

Concen: 8.431 ng m

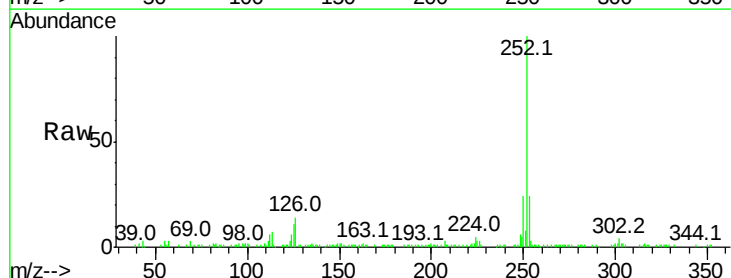
RT: 15.09 min Scan# 2211

Delta R.T. -0.01 min

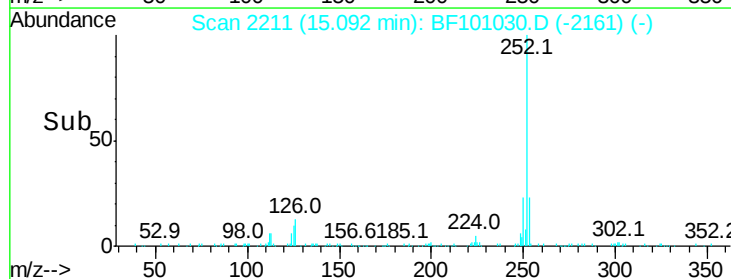
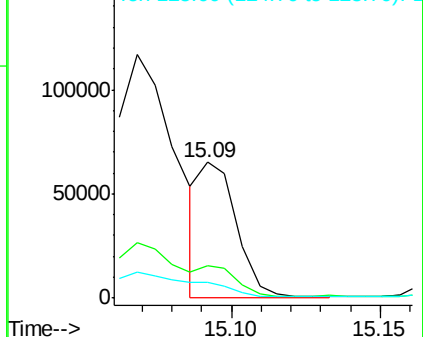
Lab File: BF101030.D

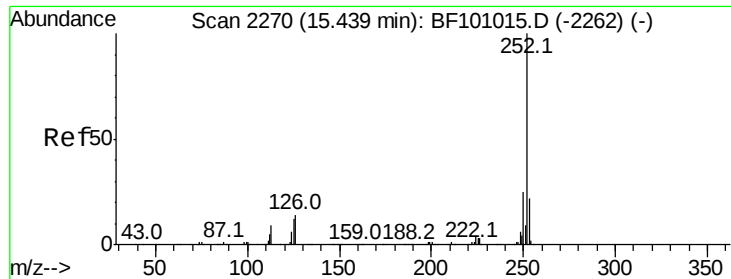
Acq: 30 Nov 2017 21:05

Tgt Ion:	252	Resp:	56467
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.9	26.9
125	11.5	10.2	15.2



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



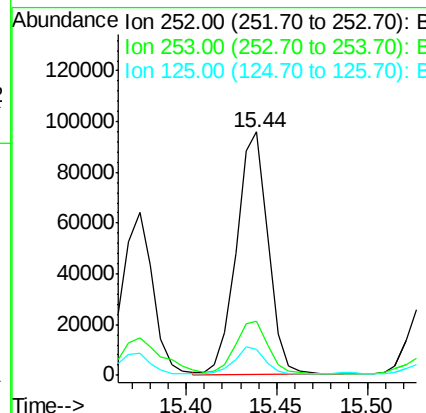
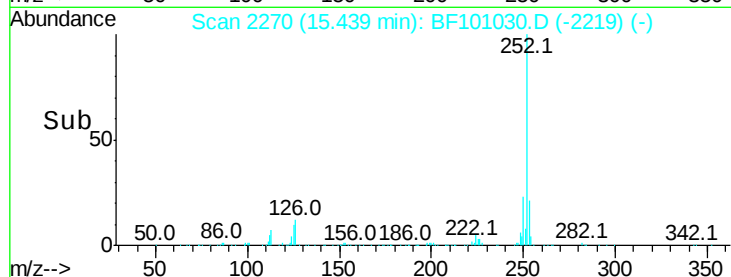
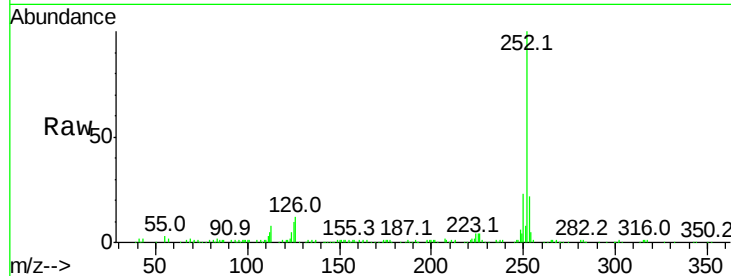


#89
Benzo(a)pyrene
Concen: 18.702 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.00 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Instrument :
BNA_F
ClientSampleId :
SB-X(0-2)-20171127

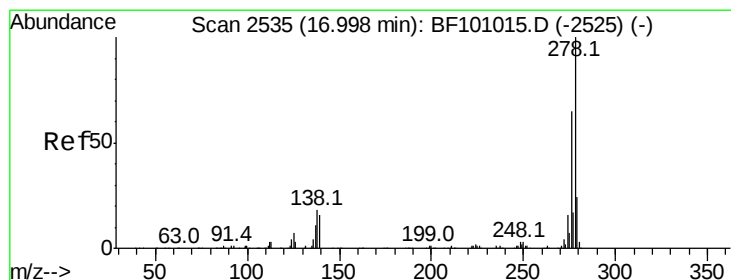
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	10.5	9.8	14.6

Manual Integrations
APPROVED



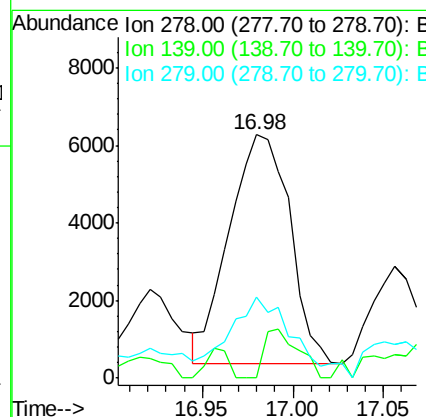
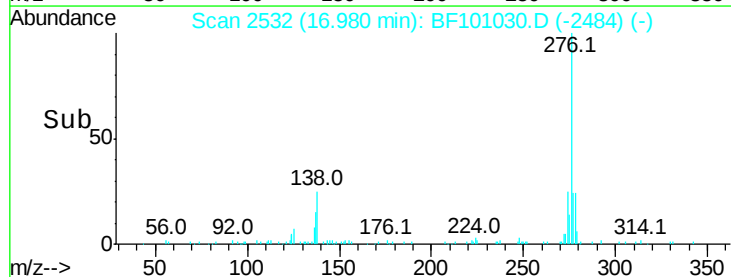
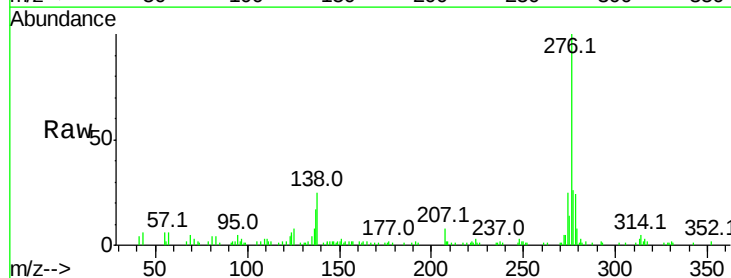
Sohil

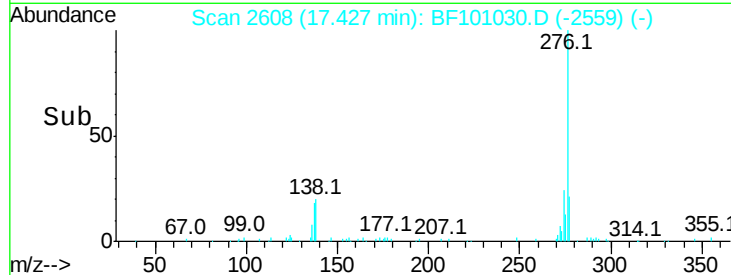
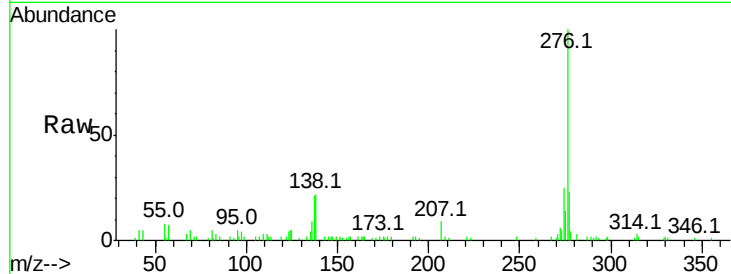
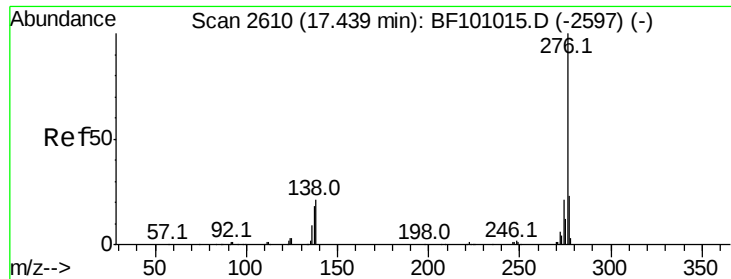
12/1/2017 11:13:00 AM



#90
Dibenzo(a,h)anthracene
Concen: 2.510 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.02 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	33.3	19.0	28.4#



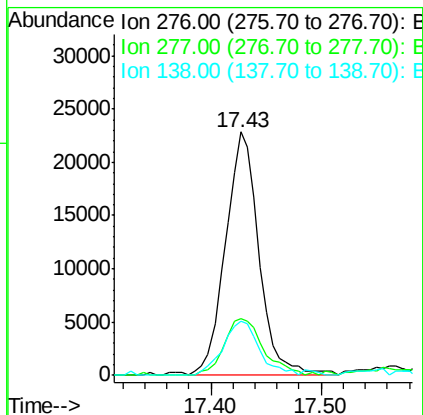


#91
Benzo(a,h,i)perylene
Concen: 9.488 ng
RT: 17.43 min Scan# 2608
Delta R.T. -0.01 min
Lab File: BF101030.D
Acq: 30 Nov 2017 21:05

Instrument :
BNA_F
ClientSampleId :
SB-X(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	22.1	21.8	32.8

Manual Integrations
APPROVED



Sohil

12/1/2017 11:13:00 AM