

Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\
 Data File : BF102493.D
 Acq On : 27 Jan 2018 3:53
 Operator : SJ/JU
 Sample : J1256-05DL 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DB-OF-N-S-(WW0-4)DL

Manual Integrations
 APPROVED

Sohil
 1/27/2018 1:47:35 PM

Quant Time: Jan 27 04:59:36 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 26 16:18:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	154981	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	615293	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	235900	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	329985	20.00	ng	0.00
75) Chrysene-d12	13.89	240	244221	20.00	ng	0.01
86) Perylene-d12	15.33	264	172952	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	207212	20.27	ng	0.00
7) Phenol-d6	6.36	99	252935	20.53	ng	0.00
23) Nitrobenzene-d5	7.28	82	133345	12.45	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	33495	14.33	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	279986	17.45	ng	0.00
78) Terphenyl-d14	12.83	244	187664	17.32	ng	0.00
Target Compounds						
51) Acenaphthene	9.79	154	41620	2.790	ng	98
57) Fluorene	10.30	166	56673	3.542	ng	96
70) Phenanthrene	11.27	178	484311	25.187	ng	99
71) Anthracene	11.32	178	126681	6.454	ng	100
72) Carbazole	11.48	167	64033	3.344	ng	98
74) Fluoranthene	12.46	202	726326	37.041	ng	98
77) Pyrene	12.69	202	701661	37.160	ng	99
80) Benzo(a)anthracene	13.88	228	305851	20.341	ng	97
82) Chrysene	13.92	228	291975	19.122	ng	98
85) Indeno(1,2,3-cd)pyrene	16.74	276	142737	11.319	ng	96
87) Benzo(b)fluoranthene	14.92	252	321637m	28.692	ng	
88) Benzo(k)fluoranthene	14.94	252	92048m	8.691	ng	
89) Benzo(a)pyrene	15.27	252	202963	20.075	ng	# 85
90) Dibenzo(a,h)anthracene	16.74	278	32867	4.013	ng	# 68
91) Benzo(a,h,i)perylene	17.17	276	148138	18.319	ng	94

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

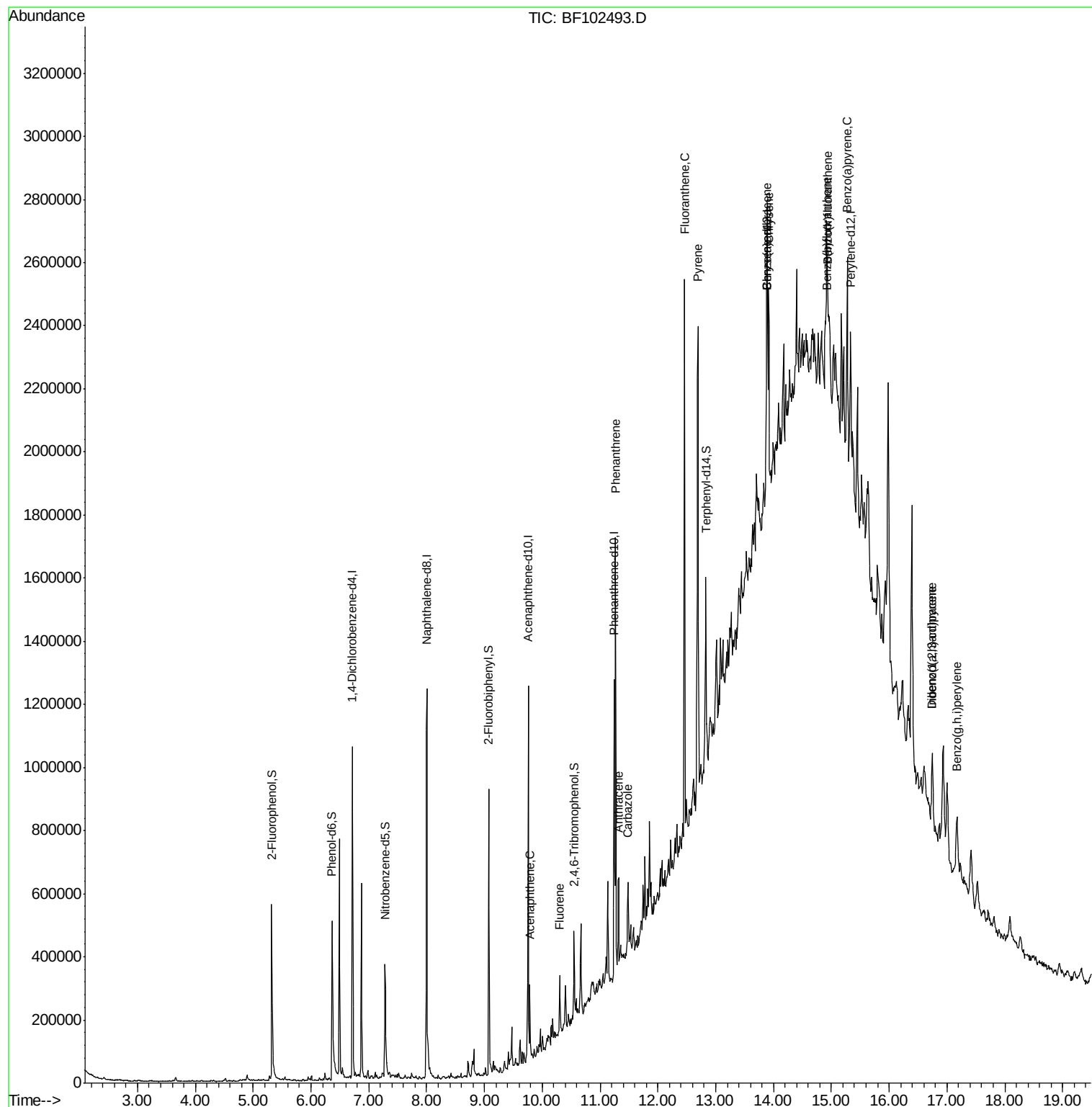
Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\
Data File : BF102493.D
Acq On : 27 Jan 2018 3:53
Operator : SJ/JU
Sample : J1256-05DL 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

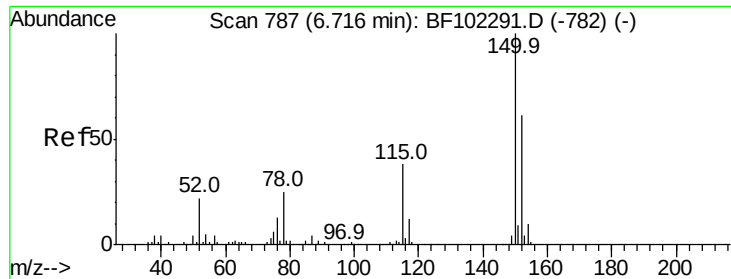
Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(WW0-4)DL

Manual Integrations
APPROVED

Sohil
1/27/2018 1:47:35 PM

Quant Time: Jan 27 04:59:36 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 26 16:18:07 2018
Response via : Initial Calibration





#1

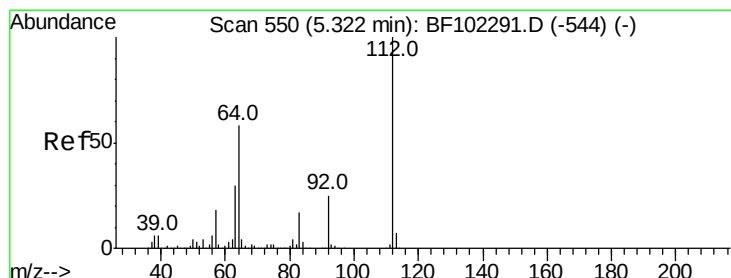
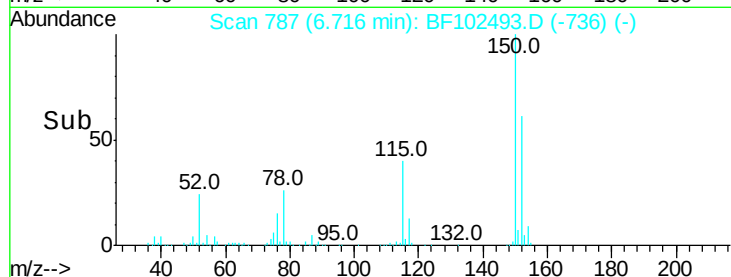
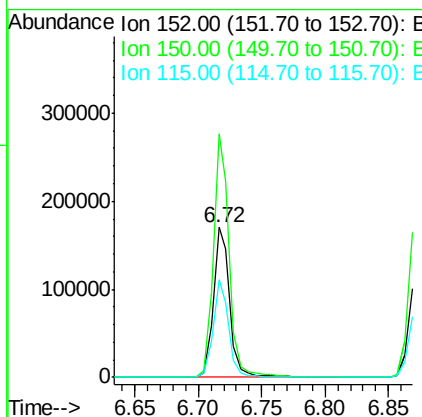
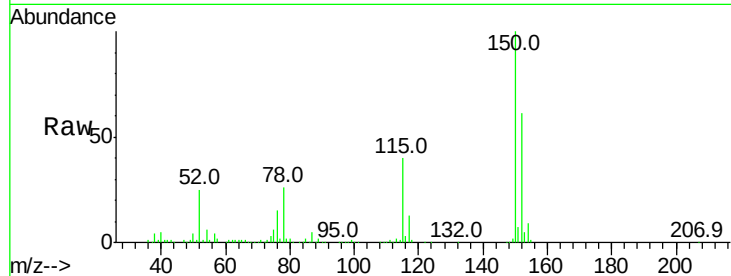
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. 0.00 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.6	124.6	186.8
115	65.3	50.1	75.1

Manual Integrations
APPROVED

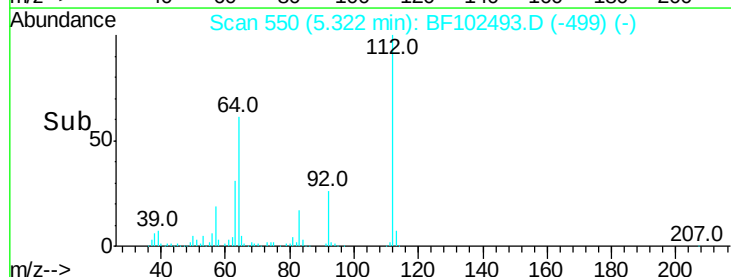
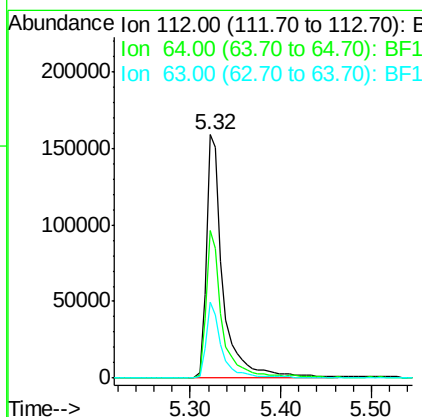
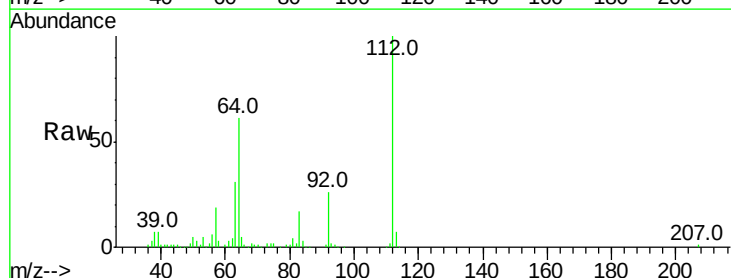
Sohil
1/27/2018 1:47:35 PM

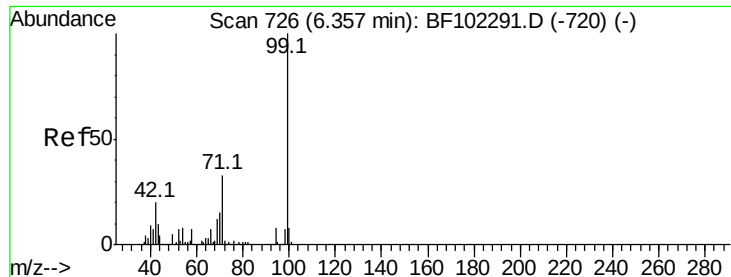


#5

2-Fluorophenol
Concen: 20.273 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.9	47.9	71.9
63	31.3	23.7	35.5





#7

Phenol-d6

Concen: 20.526 ng

RT: 6.36 min Scan# 727

Delta R.T. 0.00 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

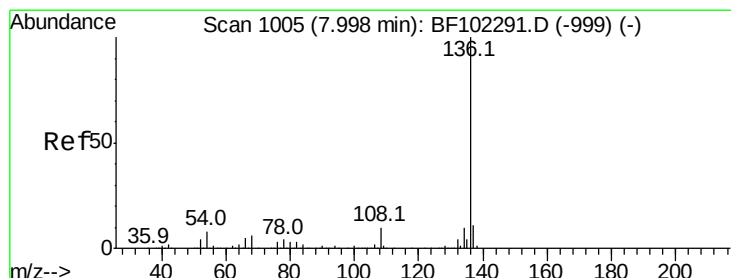
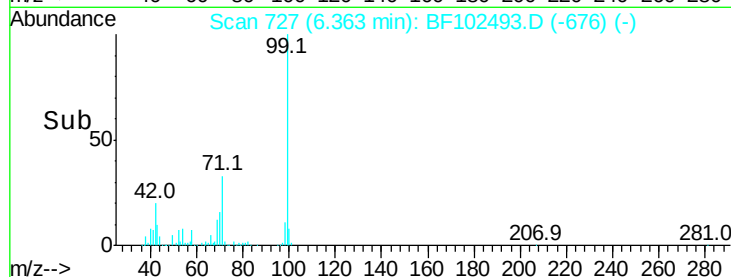
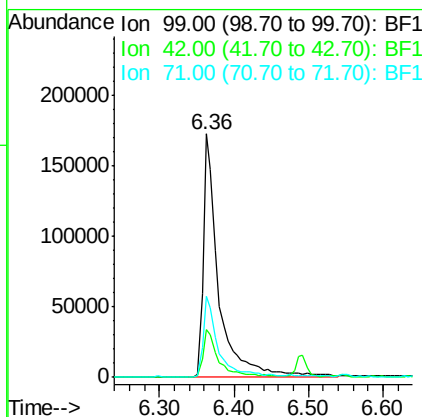
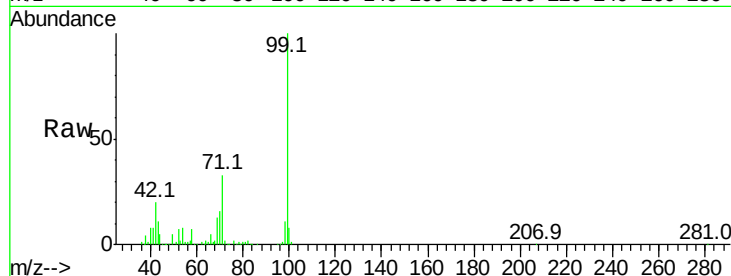
ClientSampleId :

DB-OF-N-S-(WW0-4)DL

Tot Ion:	99	Resp:	252935
Ion Ratio	Lower	Upper	
99	100		
42	19.7	14.5	21.7
71	33.2	25.4	38.0

Manual Integrations
APPROVED

Sohil
1/27/2018 1:47:35 PM



#21

Naphthalene-d8

Concen: 20.000 ng

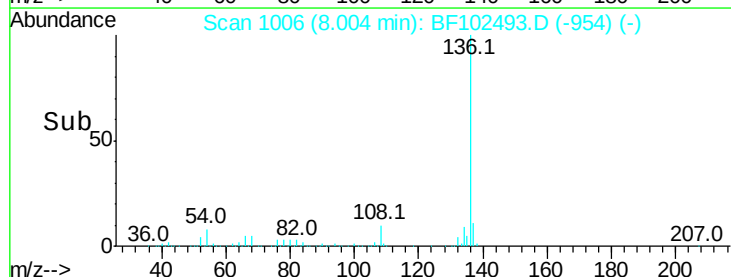
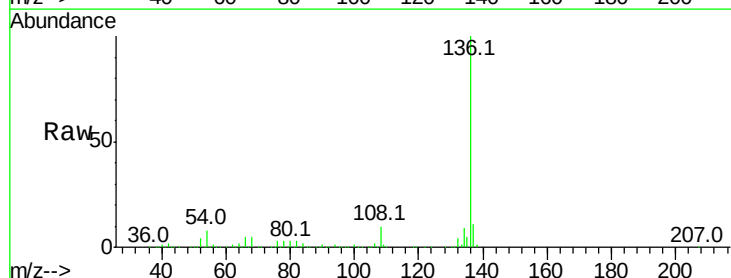
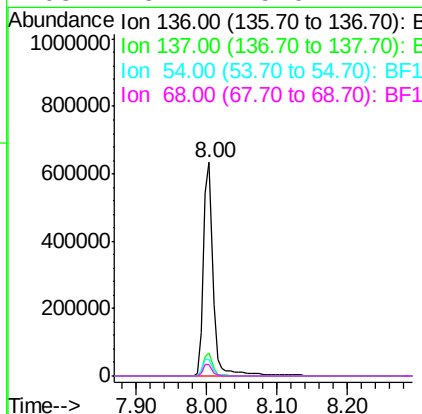
RT: 8.00 min Scan# 1006

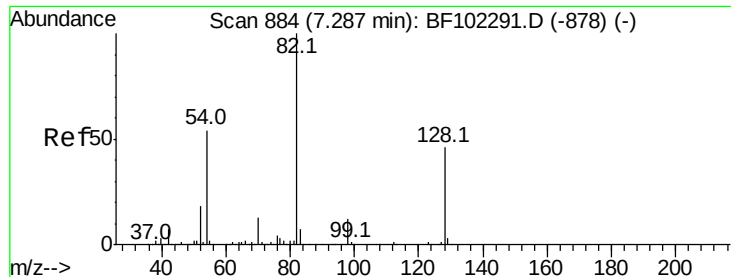
Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Tgt Ion:	136	Resp:	615293
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	7.7	6.6	9.8
68	5.4	5.0	7.4





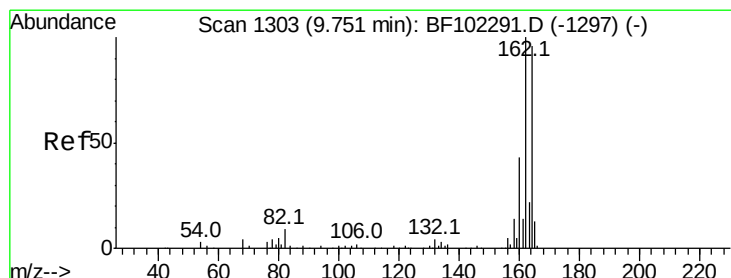
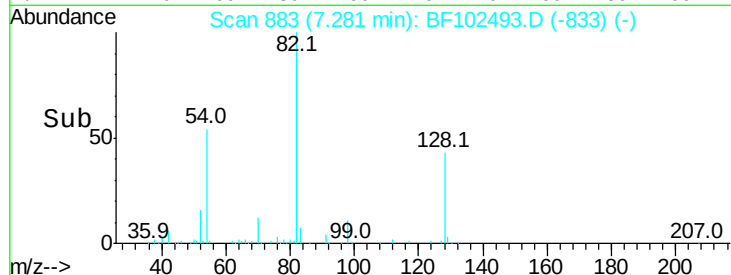
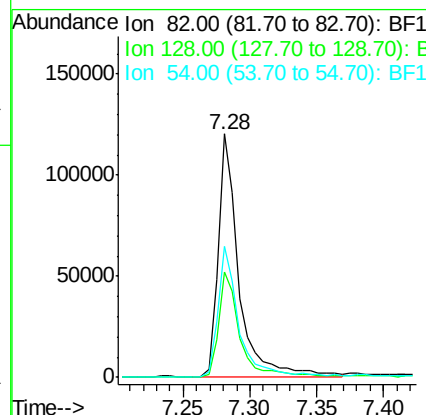
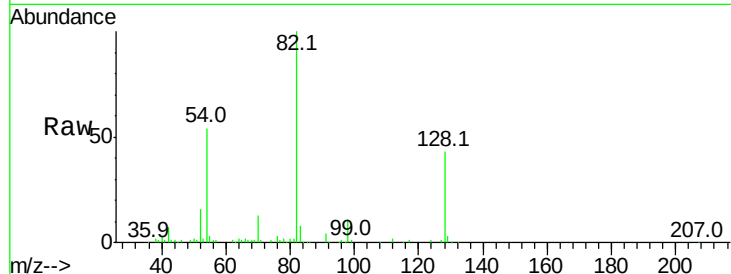
#23
Nitrobenzene-d5
Concen: 12.454 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.4	36.1	54.1
54	54.0	41.4	62.2

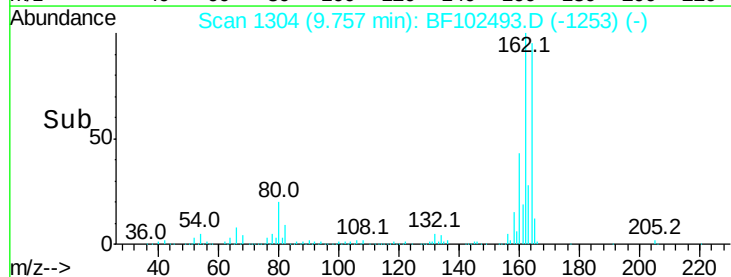
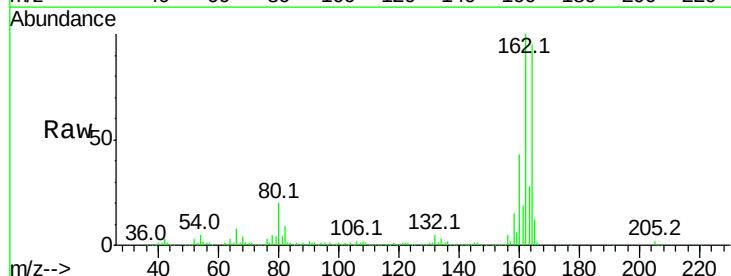
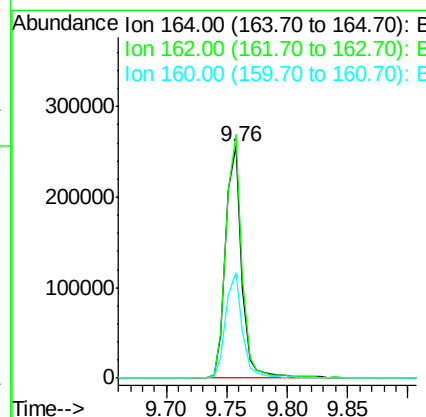
Manual Integrations
APPROVED

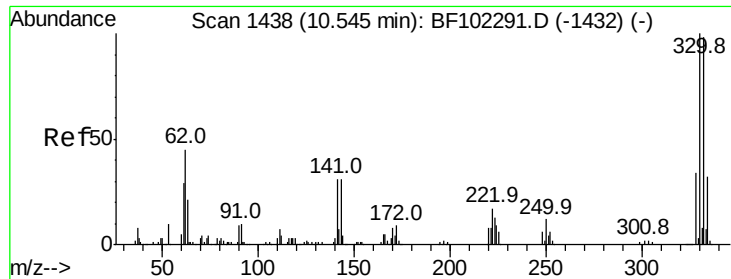
Sohil
1/27/2018 1:47:35 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	86.1	129.1
160	45.5	38.3	57.5





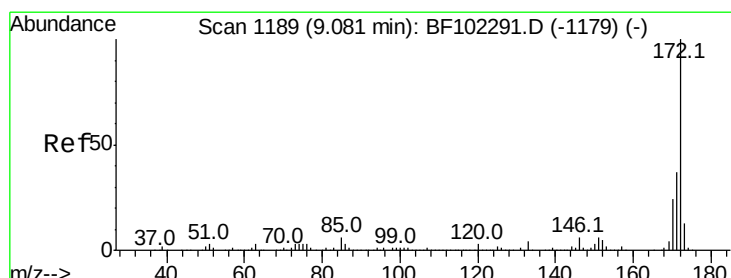
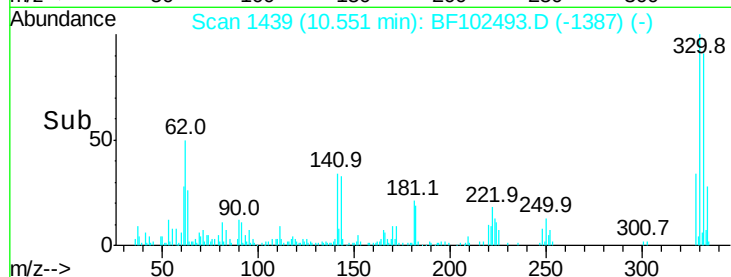
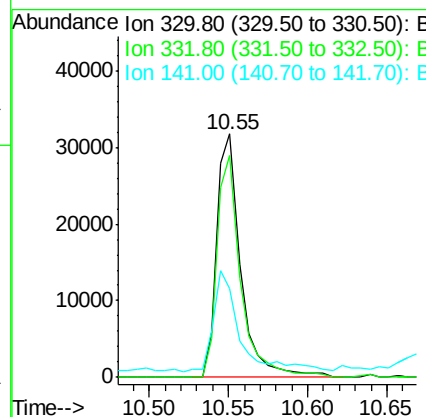
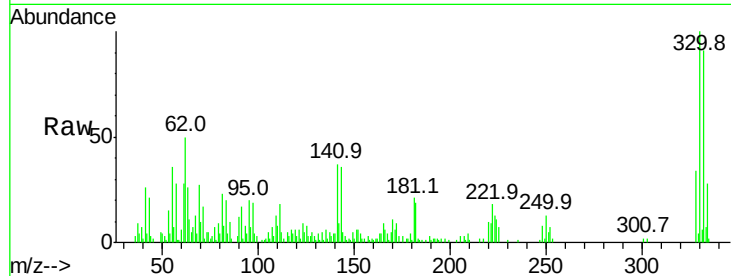
#41
 2,4,6-Tribromophenol
 Concen: 14.330 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. 0.01 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Instrument :
 BNA_F
 ClientSampleId :
 DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	90.8	77.0	115.6	
141	44.9	29.9	44.9	

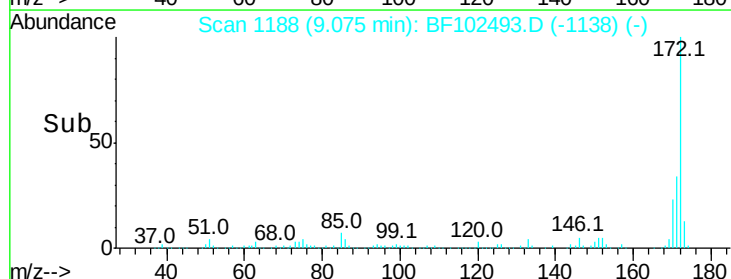
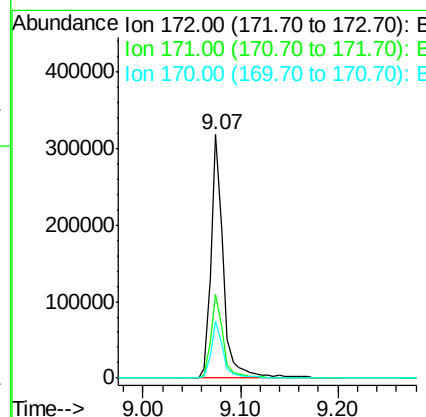
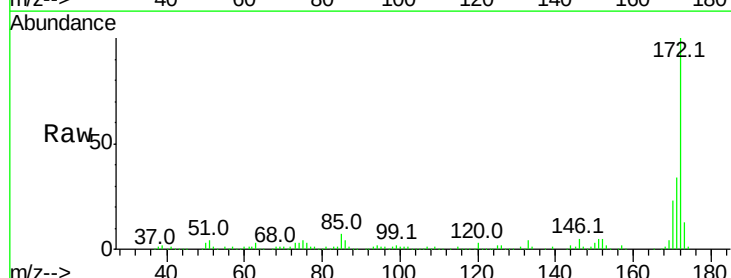
Manual Integrations
 APPROVED

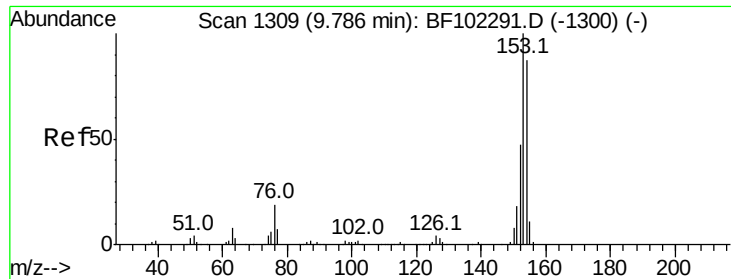
Sohil
 1/27/2018 1:47:35 PM



#44
 2-Fluorobiphenyl
 Concen: 17.451 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.5	29.7	44.5	
170	23.1	19.6	29.4	





#51

Acenaphthene

Concen: 2.790 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

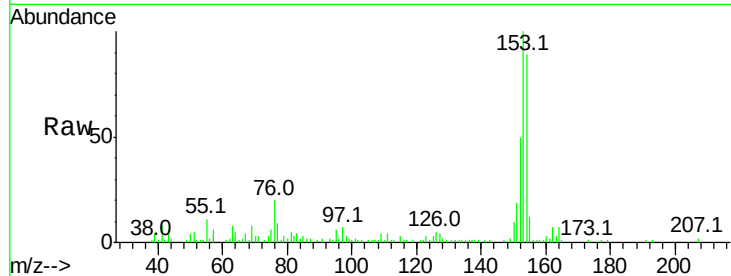
ClientSampleId :

DB-OF-N-S-(WW0-4)DL

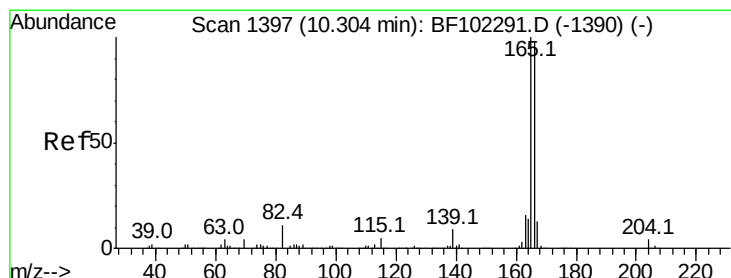
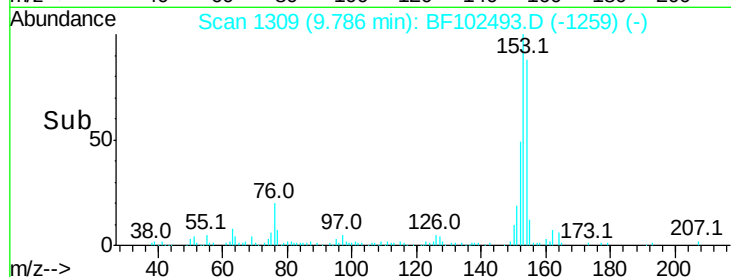
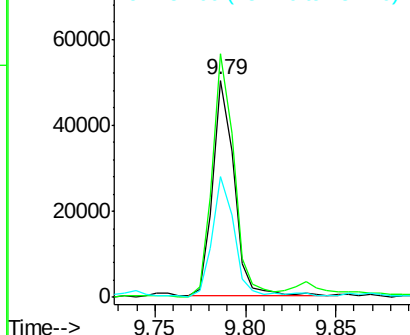
Tot Ion:	154	Resp:	41620
Ion Ratio	Lower	Upper	
154	100		
153	112.3	91.2	136.8
152	55.9	43.8	65.8

Manual Integrations
APPROVED

Sohil
1/27/2018 1:47:35 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 3.542 ng

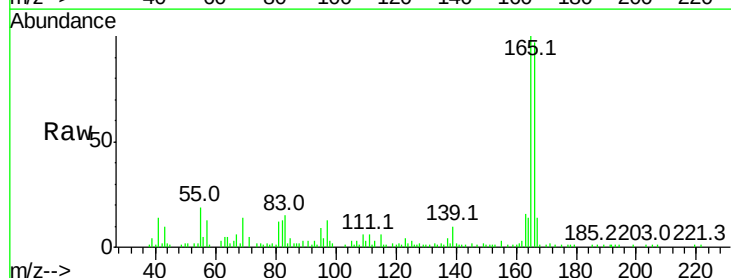
RT: 10.30 min Scan# 1397

Delta R.T. -0.00 min

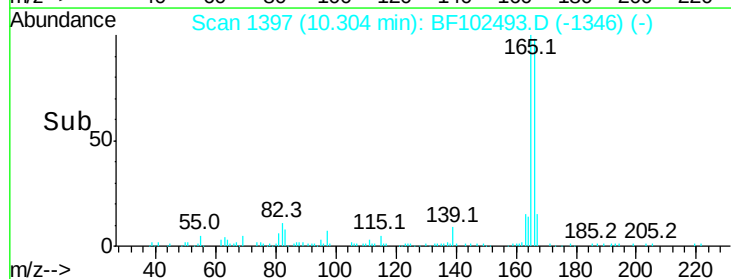
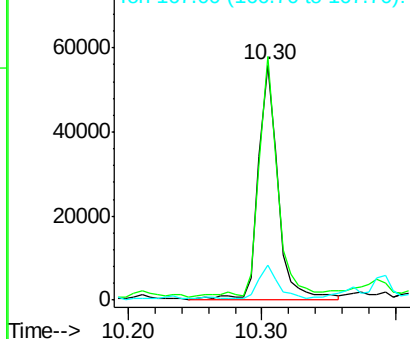
Lab File: BF102493.D

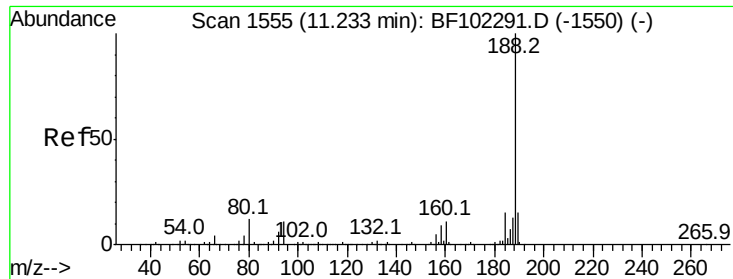
Acq: 27 Jan 2018 3:53

Tgt Ion:	166	Resp:	56673
Ion Ratio	Lower	Upper	
166	100		
165	103.5	79.8	119.8
167	15.0	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1557

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

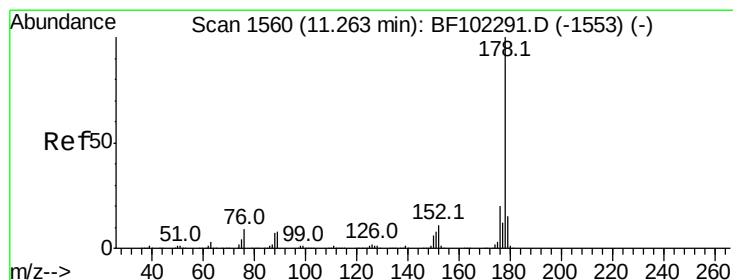
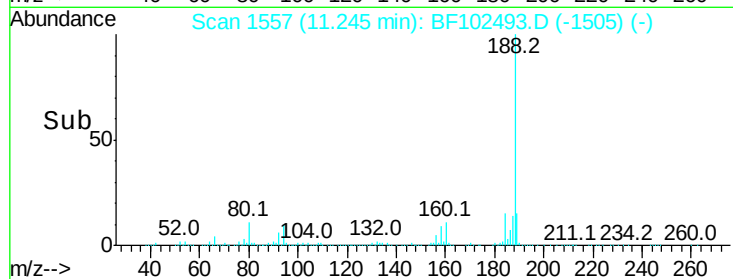
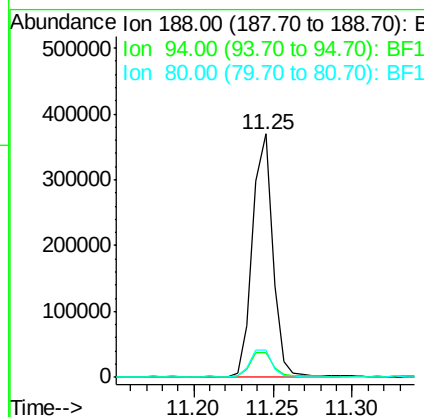
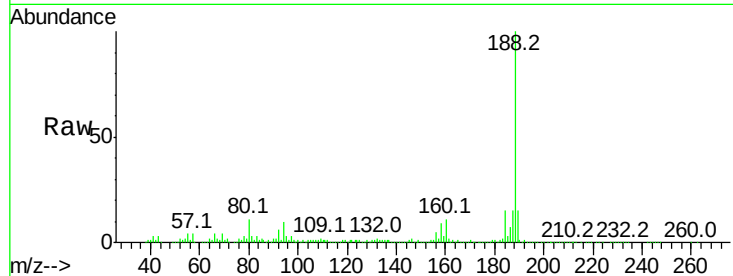
ClientSampleId :

DB-OF-N-S-(WW0-4)DL

Tot Ion:	188	Resp:	329985
Ion Ratio	Lower	Upper	
188	100		
94	10.3	8.5	12.7
80	11.0	9.2	13.8

Manual Integrations
APPROVED

Sohil
1/27/2018 1:47:35 PM



#70

Phenanthrene

Concen: 25.187 ng

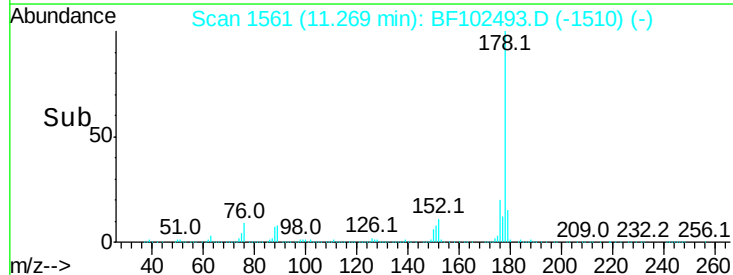
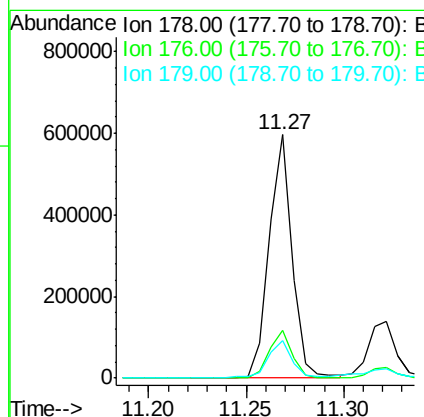
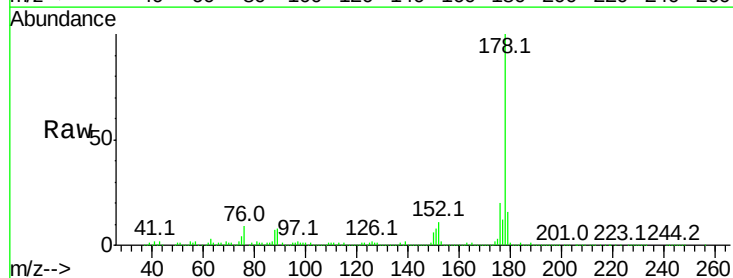
RT: 11.27 min Scan# 1561

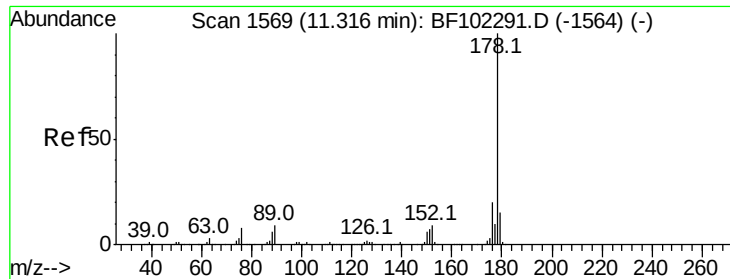
Delta R.T. 0.00 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Tgt Ion:	178	Resp:	484311
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.8	23.8
179	15.6	13.0	19.6





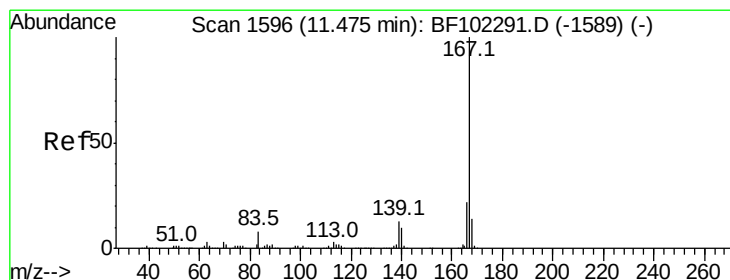
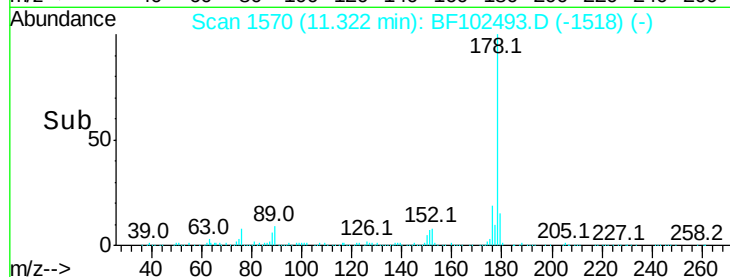
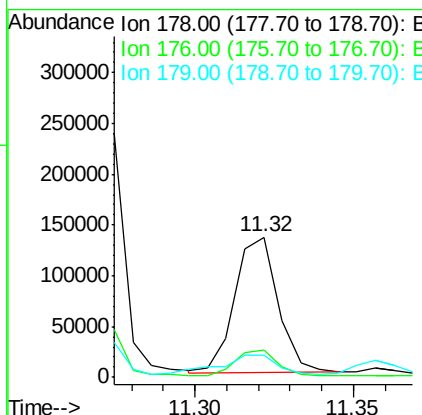
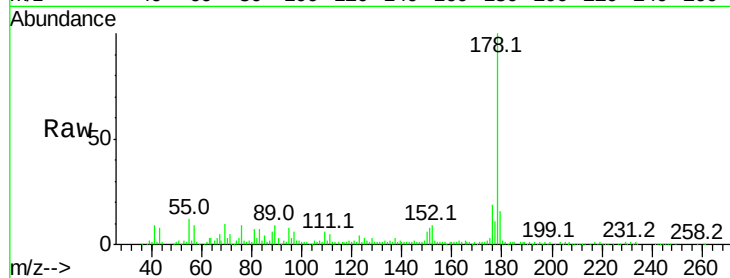
#71
 Anthracene
 Concen: 6.454 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Instrument :
 BNA_F
 ClientSampleId :
 DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.6	12.6	19.0

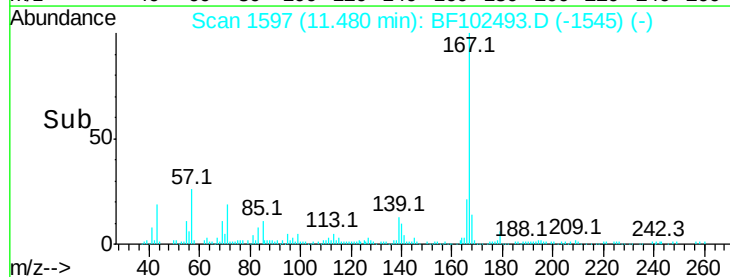
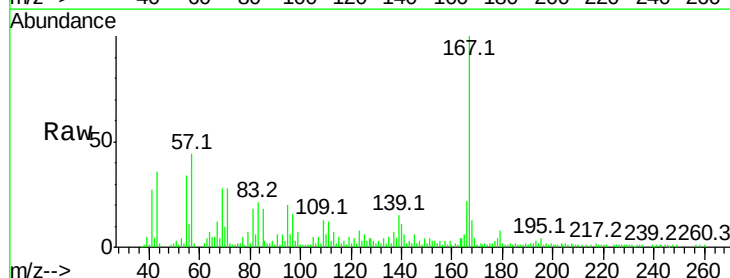
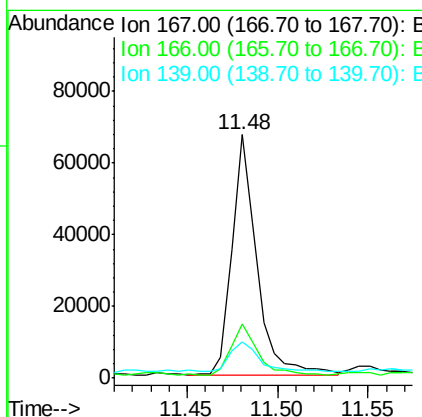
Manual Integrations
 APPROVED

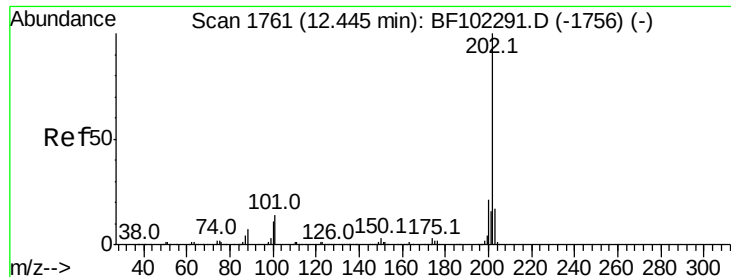
Sohil
 1/27/2018 1:47:35 PM



#72
 Carbazole
 Concen: 3.344 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. 0.01 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.6	26.4
139	15.0	10.9	16.3





#74

Fluoranthene

Concen: 37.041 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

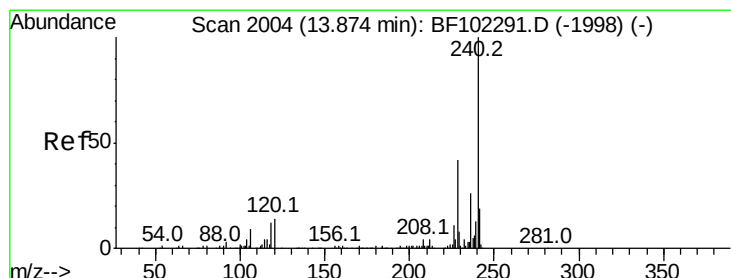
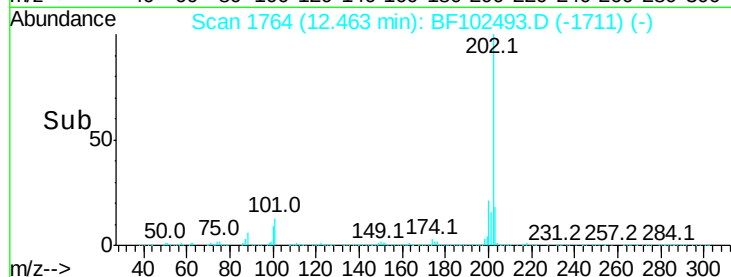
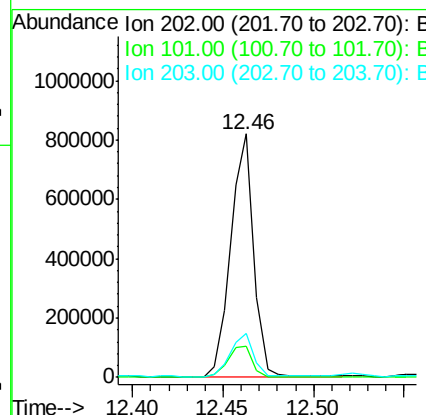
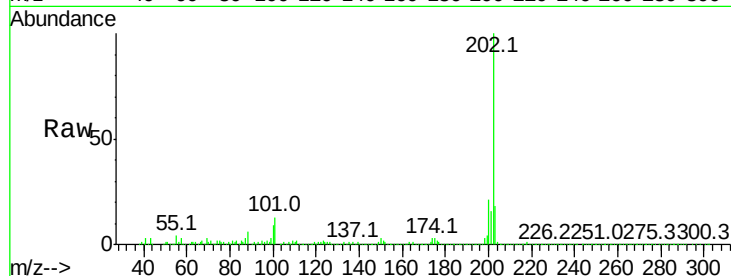
ClientSampleId :

DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.7	0.0	34.1
203	17.8	0.0	38.1

Manual Integrations
APPROVED

Sohil
1/27/2018 1:47:35 PM



#75

Chrysene-d12

Concen: 20.000 ng

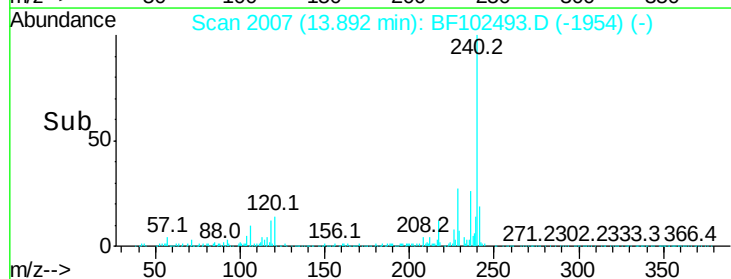
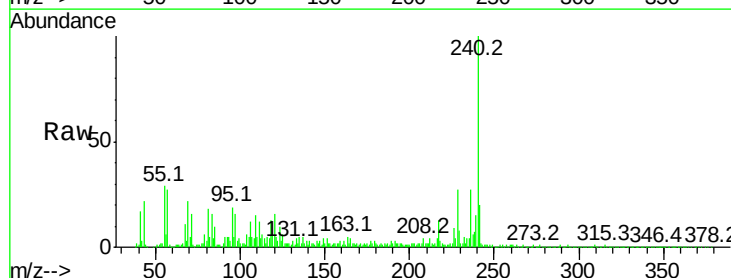
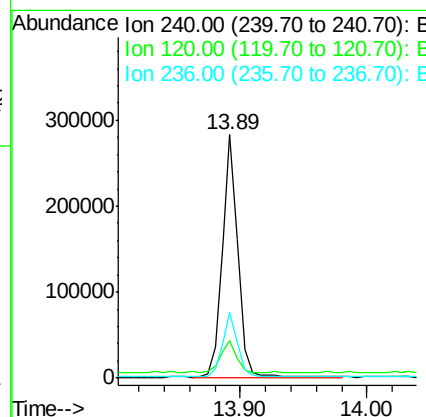
RT: 13.89 min Scan# 2007

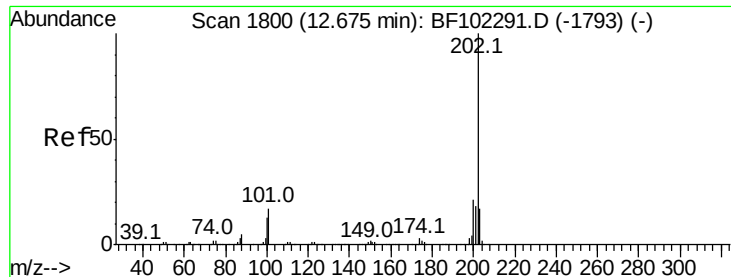
Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	15.7	9.5	14.3#
236	26.7	20.7	31.1





#77

Pvrene

Concen: 37.160 ng

RT: 12.69 min Scan# 1803

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

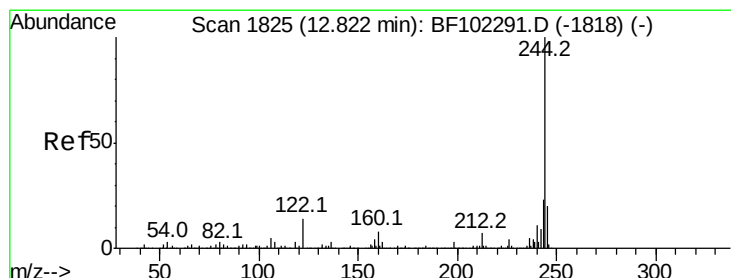
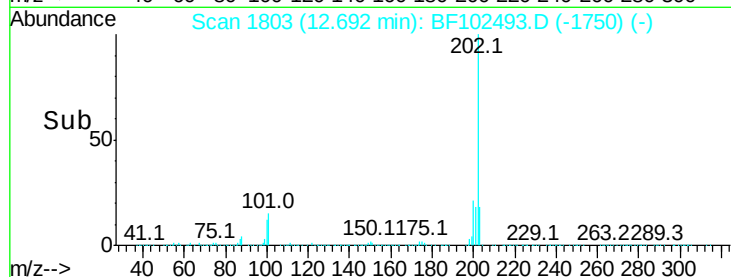
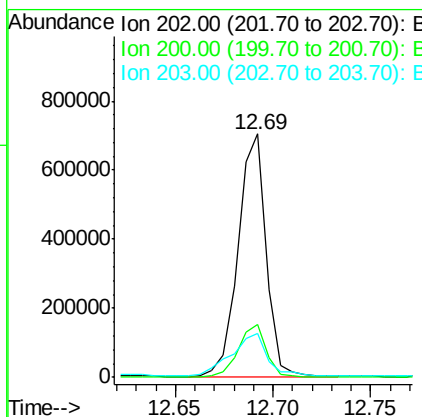
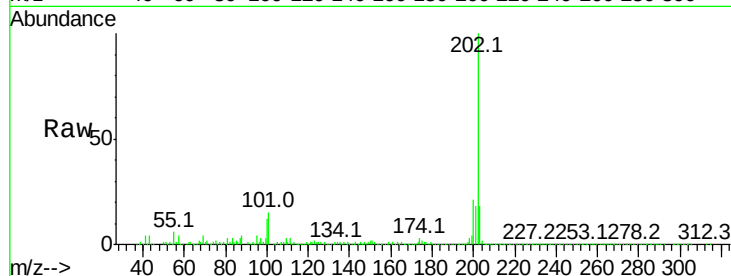
ClientSampleId :

DB-OF-N-S-(WW0-4)DL

Tot Ion:	202	Resp:	701661
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.4	26.2
203	18.3	14.3	21.5

Manual Integrations
APPROVED

Sohil
1/27/2018 1:47:35 PM



#78

Terphenyl-d14

Concen: 17.323 ng

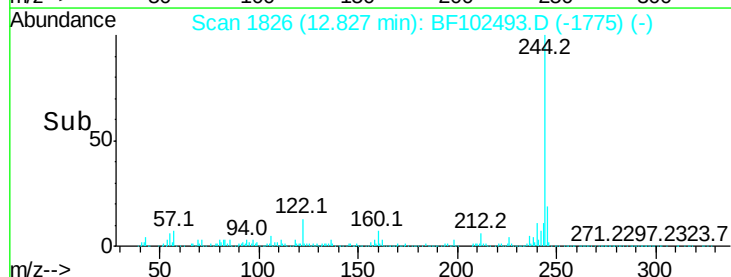
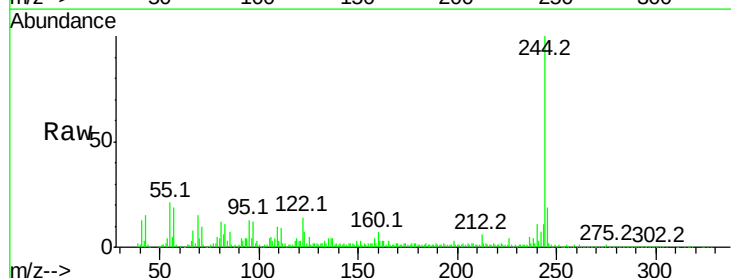
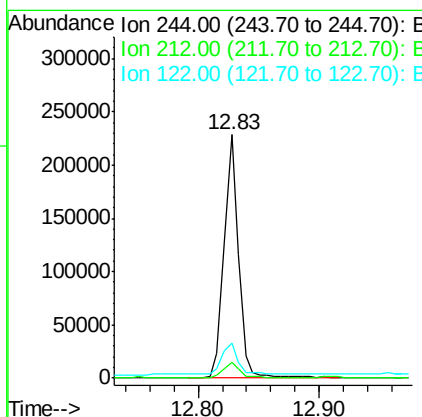
RT: 12.83 min Scan# 1826

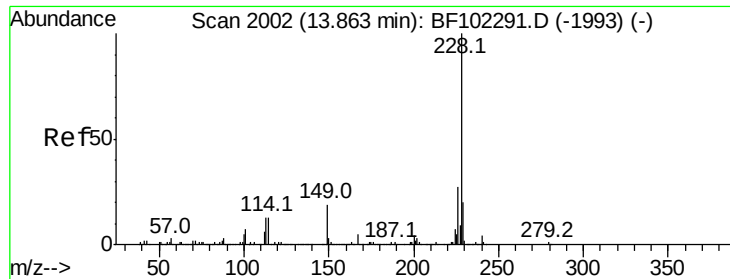
Delta R.T. 0.00 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Tgt Ion:	244	Resp:	187664
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	14.2	11.0	16.4





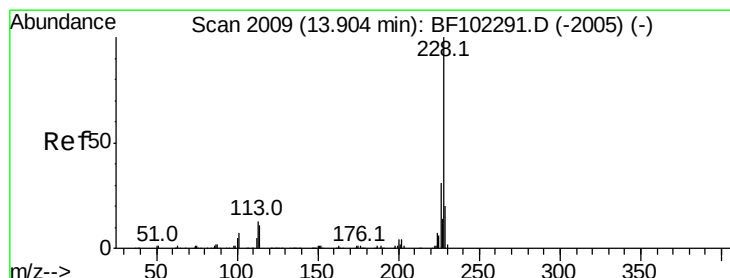
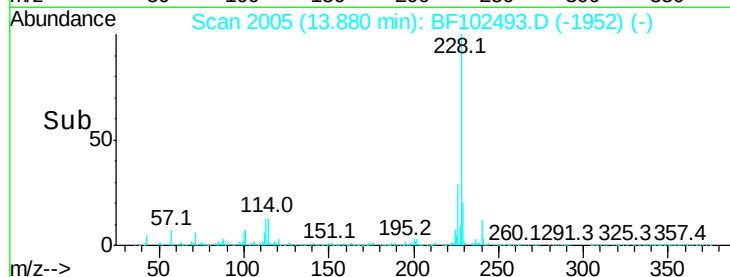
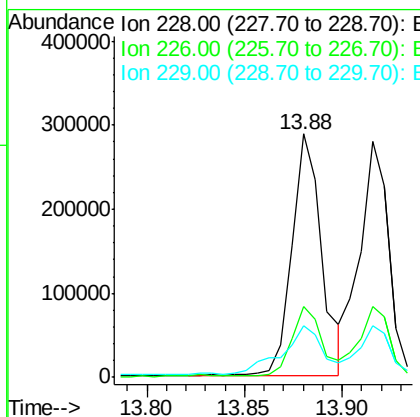
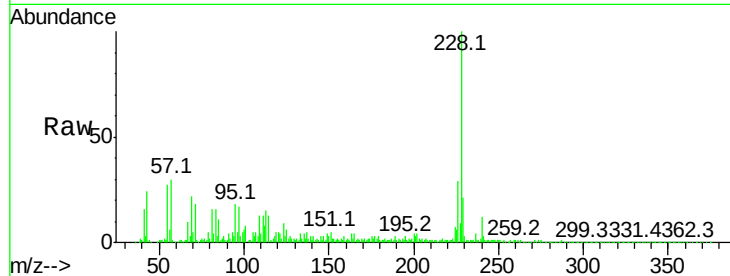
#80
Benzo(a)anthracene
Concen: 20.341 ng
RT: 13.88 min Scan# 2005
Delta R.T. 0.01 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Resp	Lower	Upper
228	100	305851		
226	29.1		22.6	33.8
229	21.4		15.8	23.6

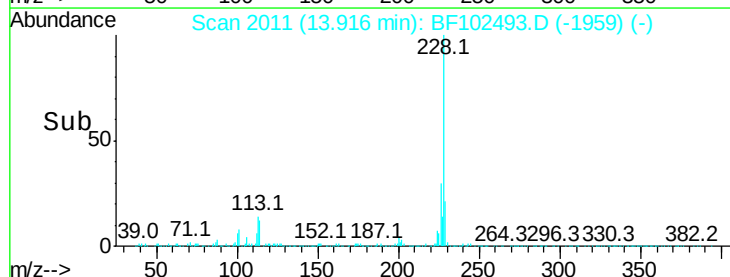
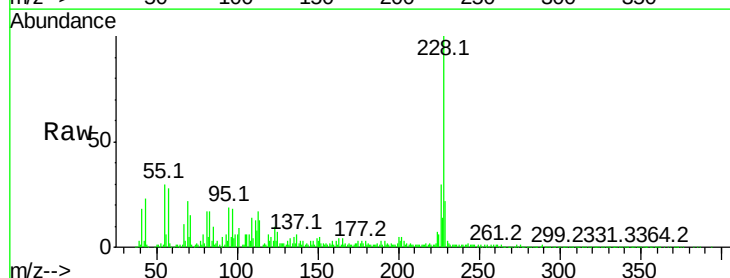
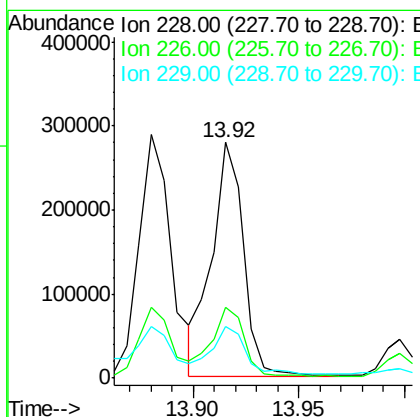
Manual Integrations
APPROVED

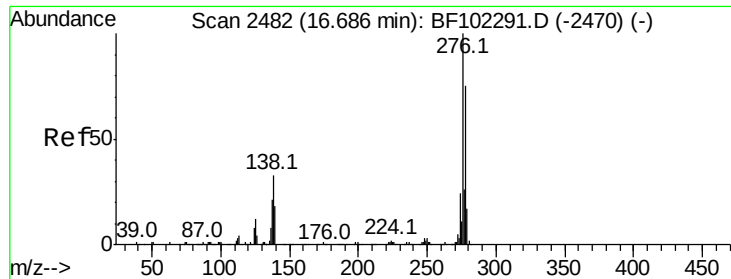
Sohil
1/27/2018 1:47:35 PM



#82
Chrysene
Concen: 19.122 ng
RT: 13.92 min Scan# 2011
Delta R.T. 0.01 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	291975		
226	30.3		25.0	37.6
229	21.9		16.2	24.4





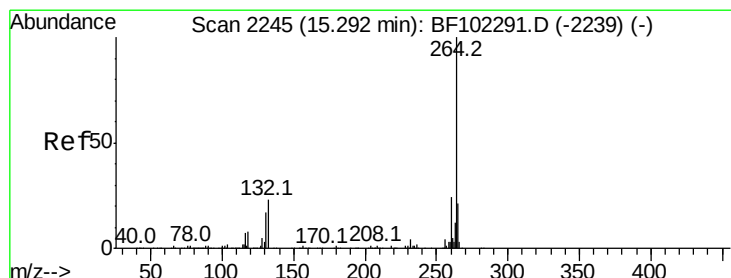
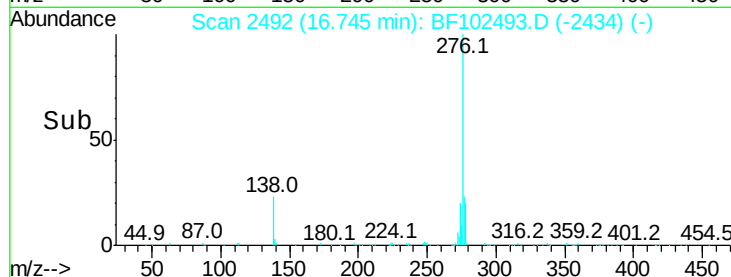
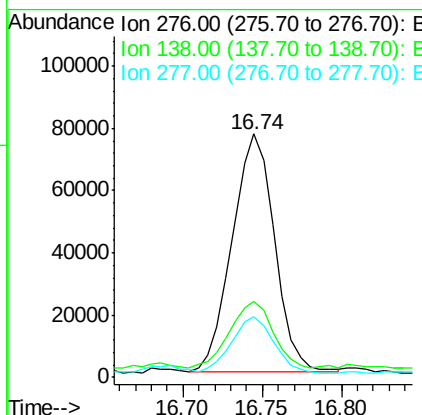
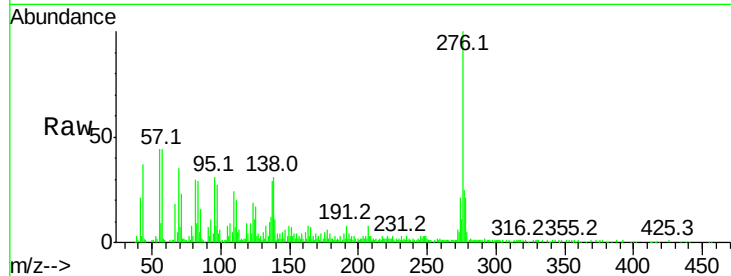
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.319 ng
 RT: 16.74 min Scan# 2492
 Delta R.T. 0.04 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Instrument :
 BNA_F
 ClientSampleID :
 DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.3	25.0	37.6
277	23.5	20.1	30.1

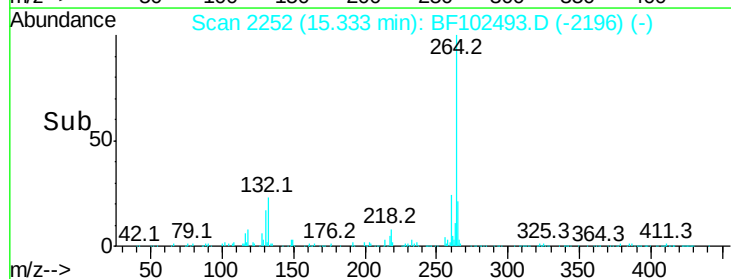
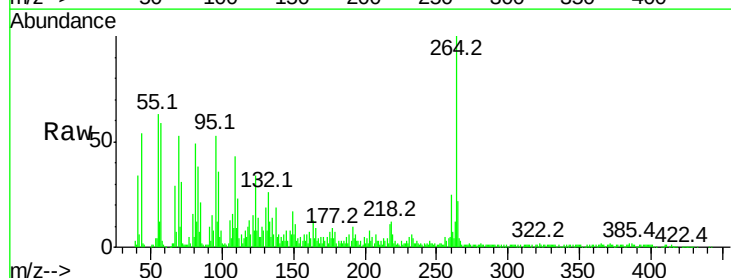
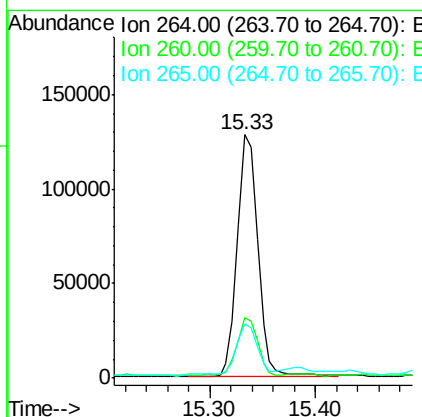
Manual Integrations
 APPROVED

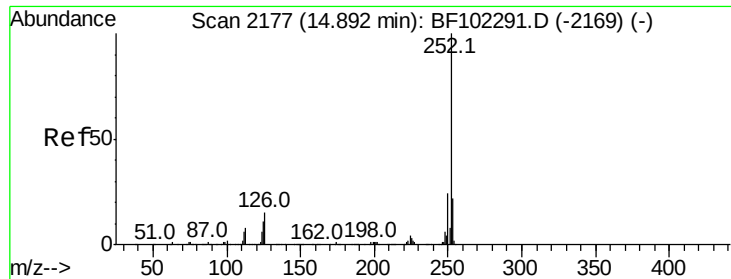
Sohil
 1/27/2018 1:47:35 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. 0.03 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.2	28.8
265	22.3	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 28.692 ng m

RT: 14.92 min Scan# 2182

Delta R.T. 0.02 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

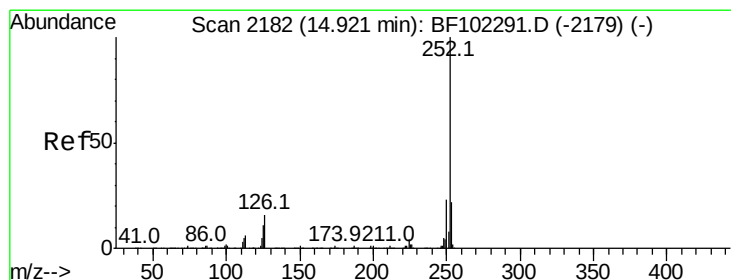
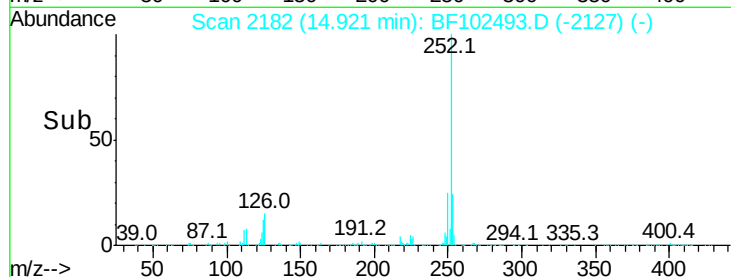
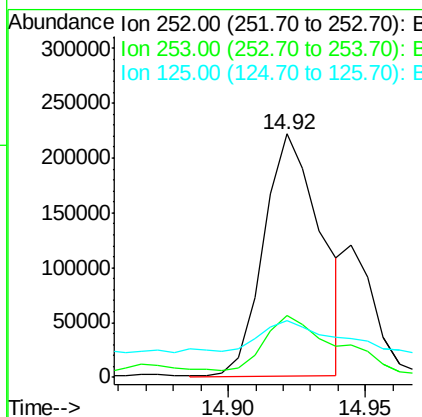
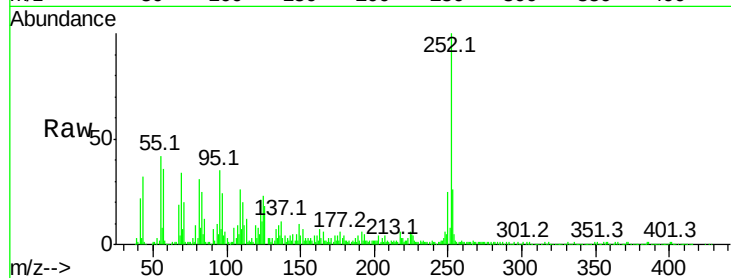
ClientSampleId :

DB-OF-N-S-(WW0-4)DL

Tot Ion:	252	Resp:	321637
Ion Ratio	Lower	Upper	
252	100		
253	25.6	17.0	25.6#
125	23.2	9.0	13.6#

Manual Integrations
APPROVED

Sohil
1/27/2018 1:47:35 PM



#88

Benzo(k)fluoranthene

Concen: 8.691 ng m

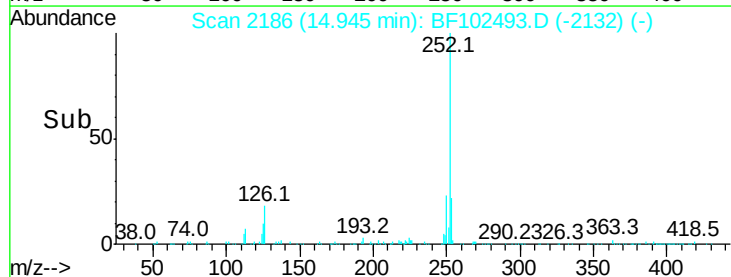
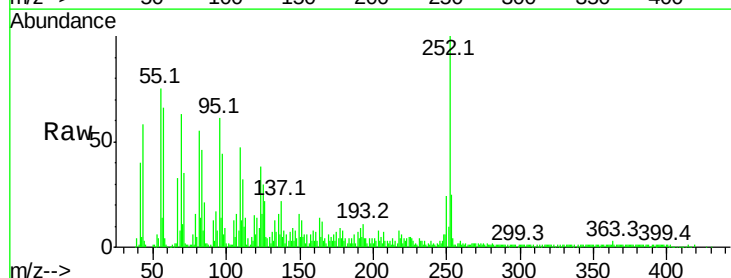
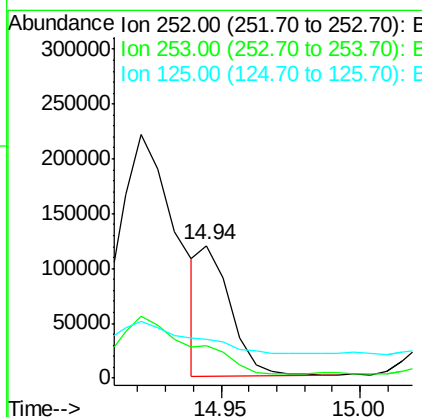
RT: 14.94 min Scan# 2186

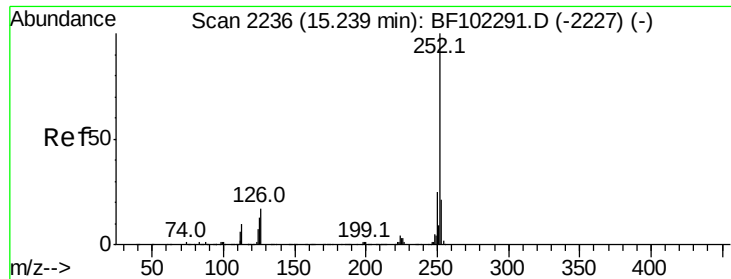
Delta R.T. 0.02 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Tgt Ion:	252	Resp:	92048
Ion Ratio	Lower	Upper	
252	100		
253	24.5	17.9	26.9
125	29.7	10.2	15.2#





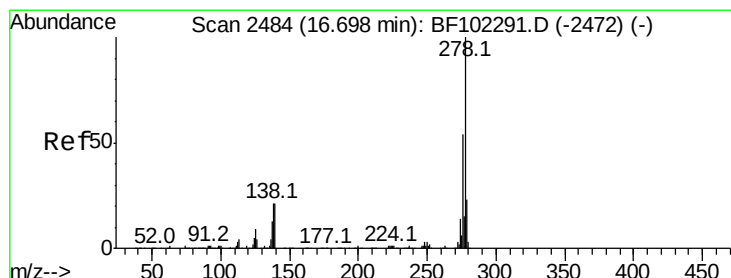
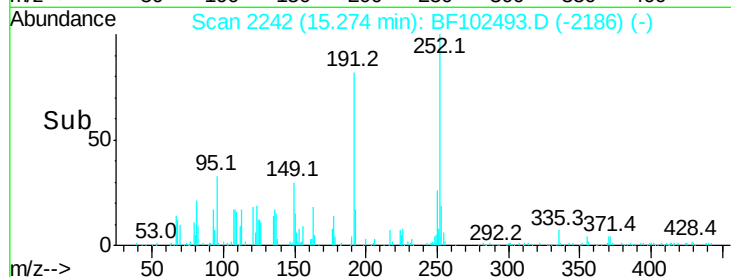
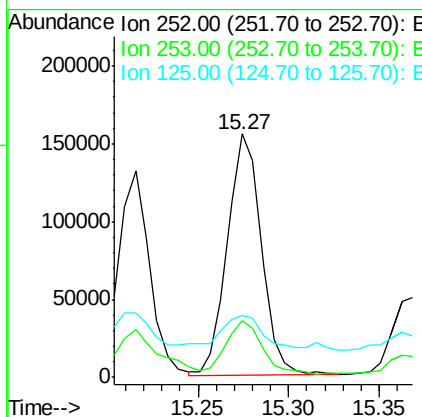
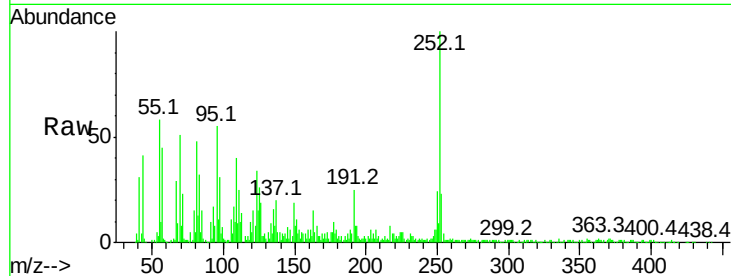
#89
Benzo(a)pyrene
Concen: 20.075 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.03 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(WW0-4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	25.6	9.8	14.6

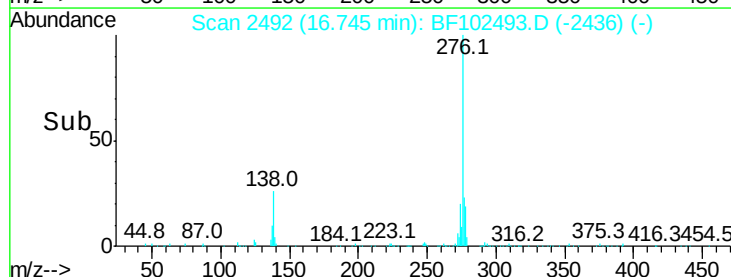
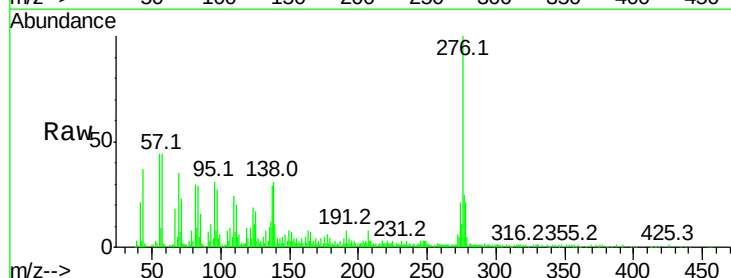
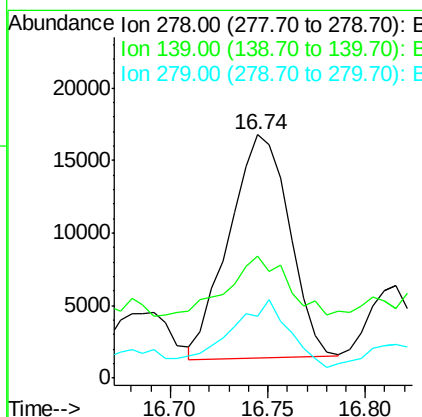
Manual Integrations
APPROVED

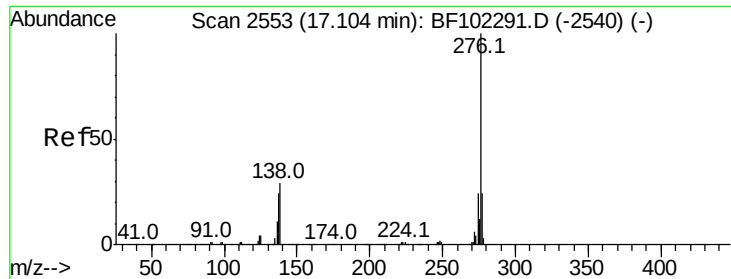
Sohil
1/27/2018 1:47:35 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.013 ng
RT: 16.74 min Scan# 2492
Delta R.T. 0.03 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	50.4	15.9	23.9
279	25.3	19.0	28.4





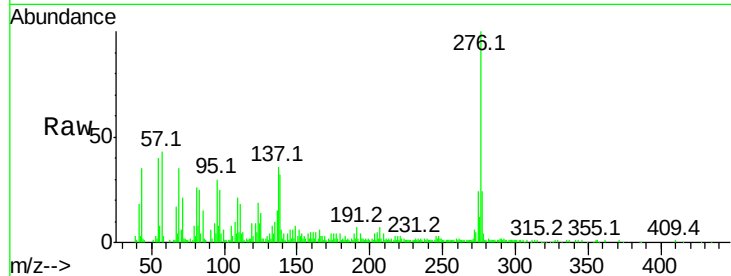
#91
 Benzo(a,h,i)perylene
 Concen: 18.319 ng
 RT: 17.17 min Scan# 2565
 Delta R.T. 0.05 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Instrument :
 BNA_F
 ClientSampleId :
 DB-OF-N-S-(WW0-4)DL

Tot Ion:	276	Resp:	148138
Ion Ratio	Lower	Upper	
276	100		
277	24.3	17.9	26.9
138	31.6	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 1/27/2018 1:47:35 PM



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

