

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\
 Data File : BF100514.D
 Acq On : 13 Nov 2017 20:54
 Operator : SJ/JU
 Sample : I6300-03 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-111017

Manual Integrations
 APPROVED

SOHIL
 11/14/2017 5:20:39 PM

Quant Time: Nov 14 03:19:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 13 14:08:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	74840	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	272813	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	111409	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	175570	20.00	ng	0.00
75) Chrysene-d12	14.06	240	148660	20.00	ng	0.00
86) Perylene-d12	15.54	264	112052	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	56283	12.06	ng	0.00
7) Phenol-d6	6.50	99	67674	11.75	ng	-0.01
23) Nitrobenzene-d5	7.45	82	36048	8.74	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	13293	11.71	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	87685	11.98	ng	0.00
78) Terphenyl-d14	13.00	244	63247	9.78	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.19	128	44896	3.417	ng	99
37) 2-Methylnaphthalene	8.89	142	27955	3.204	ng	97
48) Acenaphthylene	9.79	152	39604	3.419	ng	98
49) Dimethylphthalate	9.64	163	17961	2.112	ng	# 99
51) Acenaphthene	9.96	154	30868	4.381	ng	98
54) Dibenzofuran	10.13	168	28118	2.847	ng	# 96
57) Fluorene	10.47	166	52349	7.237	ng	98
70) Phenanthrene	11.45	178	437437	47.321	ng	97
71) Anthracene	11.49	178	133719	14.258	ng	98
72) Carbazole	11.65	167	27249	3.149	ng	100
74) Fluoranthene	12.63	202	635717	64.890	ng	95
77) Pyrene	12.86	202	586242	55.321	ng	99
80) Benzo(a)anthracene	14.04	228	320075	35.754	ng	97
82) Chrysene	14.09	228	268664	30.991	ng	98
85) Indeno(1,2,3-cd)pyrene	17.03	276	93069	13.273	ng	# 88
87) Benzo(b)fluoranthene	15.10	252	260707m	39.272	ng	
88) Benzo(k)fluoranthene	15.13	252	89626m	14.289	ng	
89) Benzo(a)pyrene	15.47	252	175735	29.860	ng	96
90) Dibenzo(a,h)anthracene	17.04	278	25508m	5.300	ng	
91) Benzo(a,h,i)perylene	17.48	276	85929	18.238	ng	# 90

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

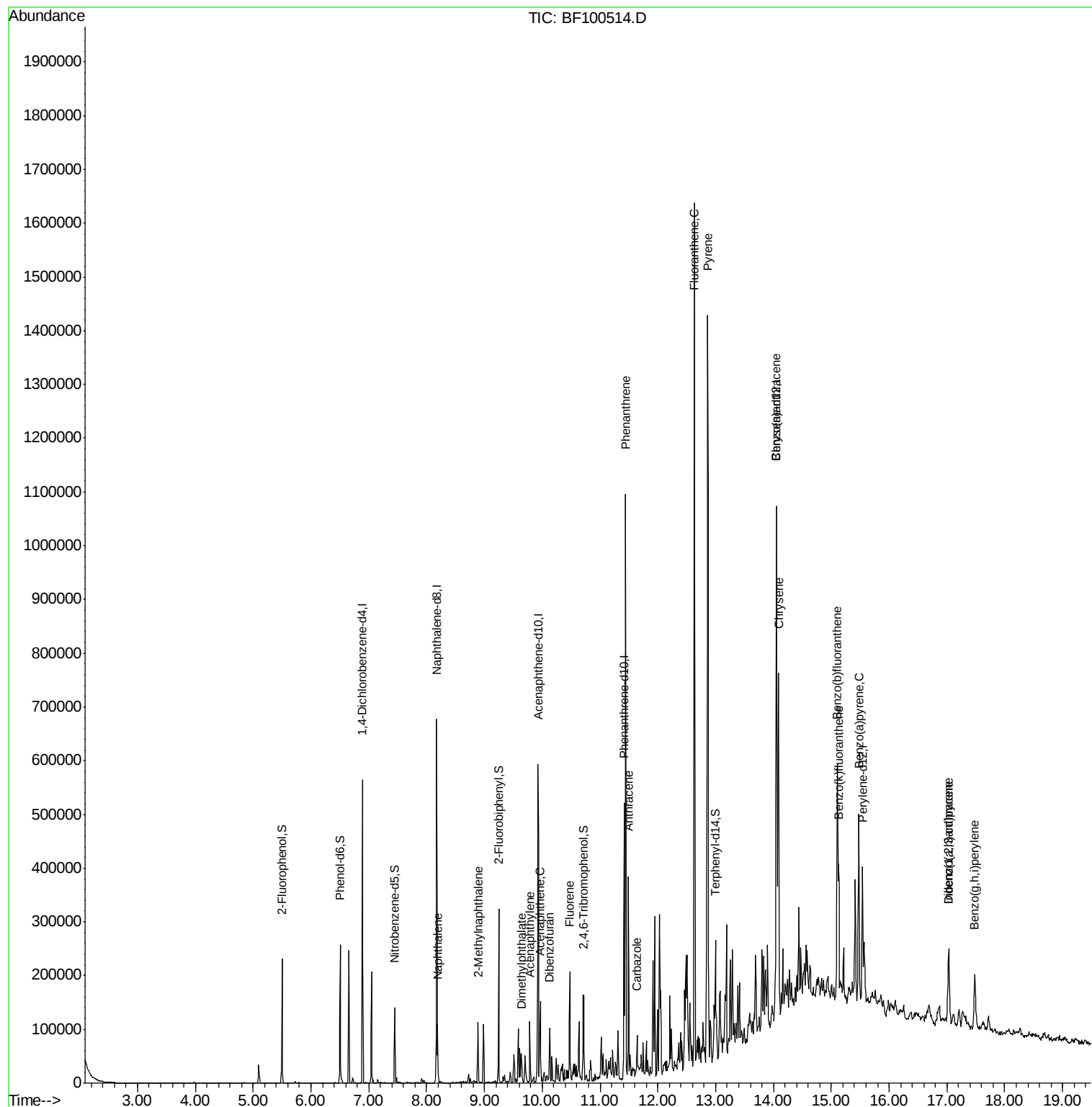
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100514.D
Acq On : 13 Nov 2017 20:54
Operator : SJ/JU
Sample : I6300-03 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

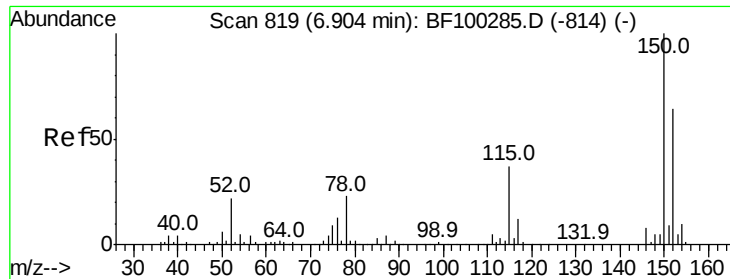
Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:39 PM

Quant Time: Nov 14 03:19:57 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 13 14:08:38 2017
Response via : Initial Calibration





#1

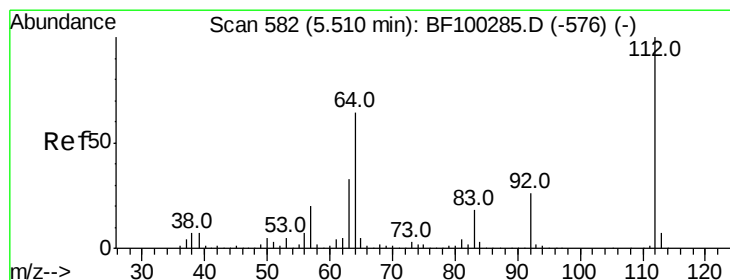
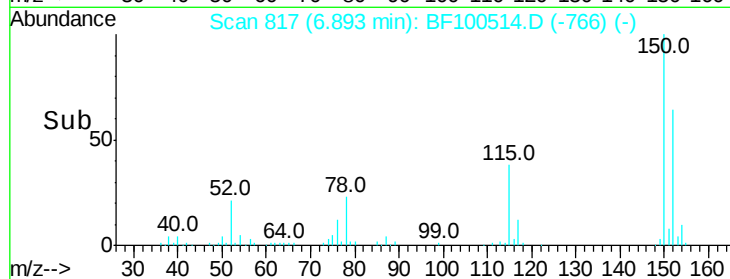
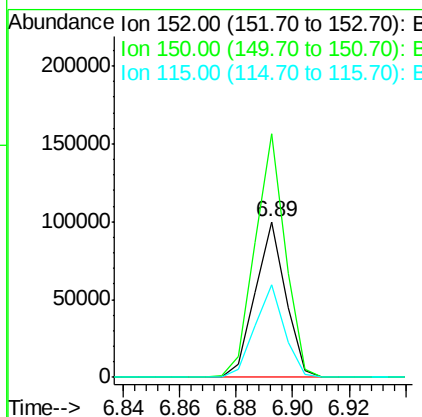
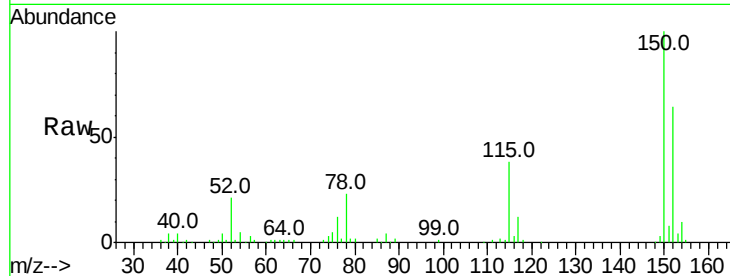
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. 0.00 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.6	186.8
115	59.2	50.1	75.1

Manual Integrations
APPROVED

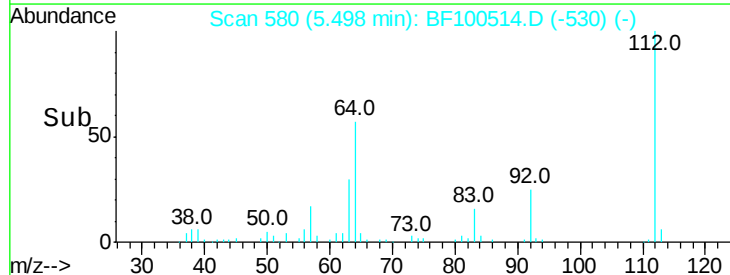
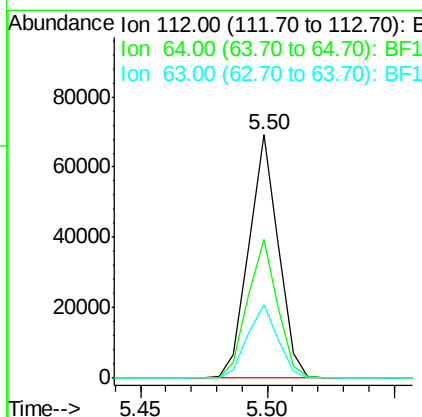
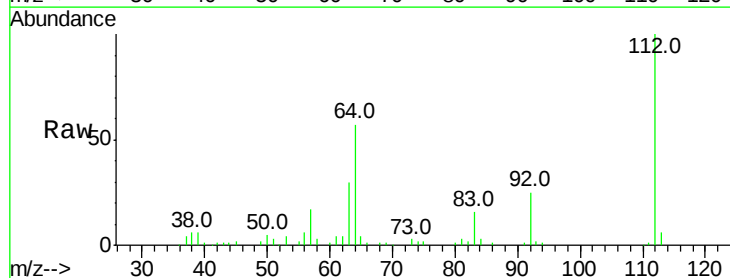
SOHIL
11/14/2017 5:20:39 PM



#5

2-Fluorophenol
Concen: 12.055 ng
RT: 5.50 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.0	47.9	71.9
63	29.9	23.7	35.5





#7

Phenol-d6

Concen: 11.755 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Instrument :

BNA_F

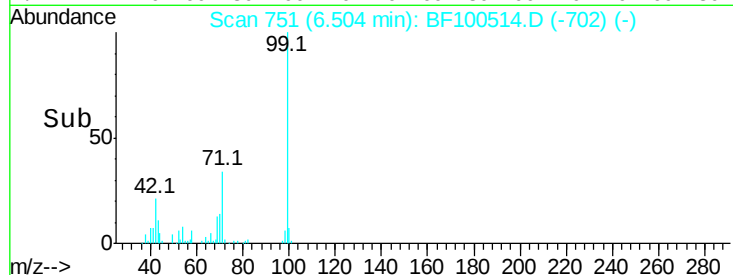
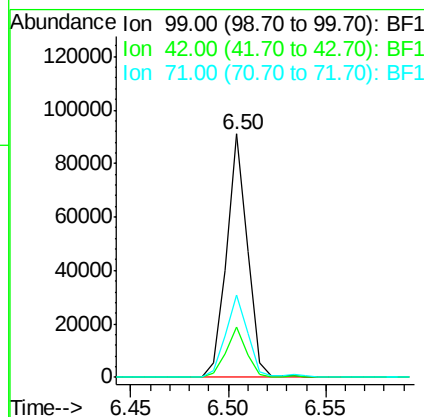
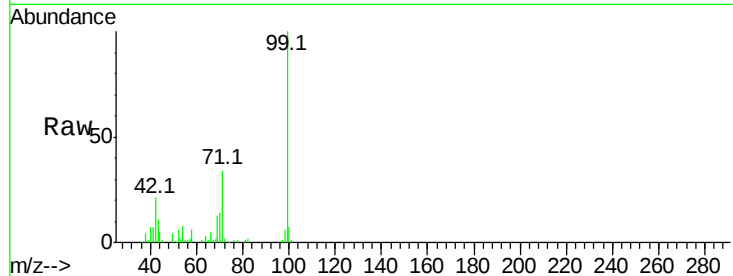
ClientSampleId :

OR-03-111017

Tot Ion:	99	Resp:	67674
Ion	Ratio	Lower	Upper
99	100		
42	20.7	14.5	21.7
71	33.9	25.4	38.0

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:39 PM



#21

Naphthalene-d8

Concen: 20.000 ng

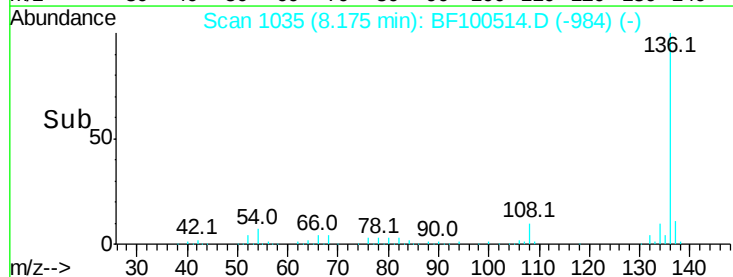
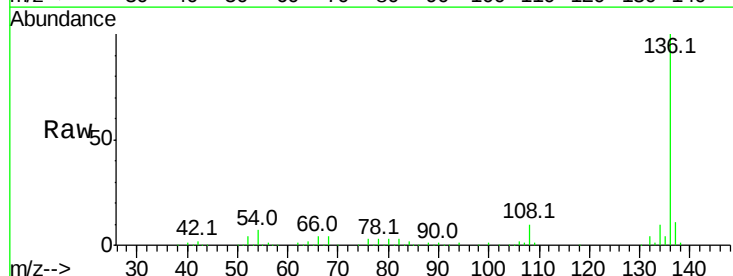
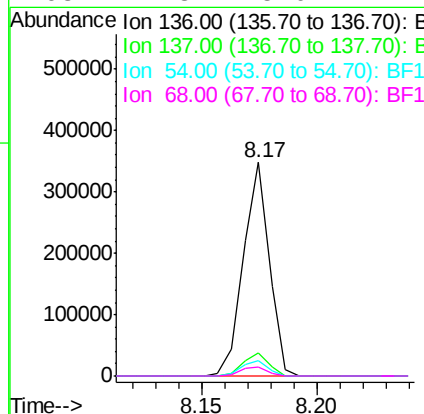
RT: 8.17 min Scan# 1035

Delta R.T. 0.00 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Tgt Ion:	136	Resp:	272813
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.4	6.6	9.8
68	4.3	5.0	7.4





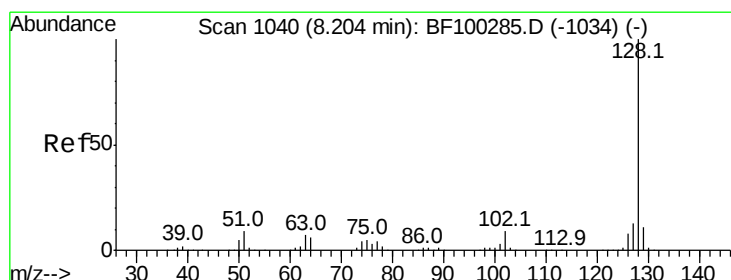
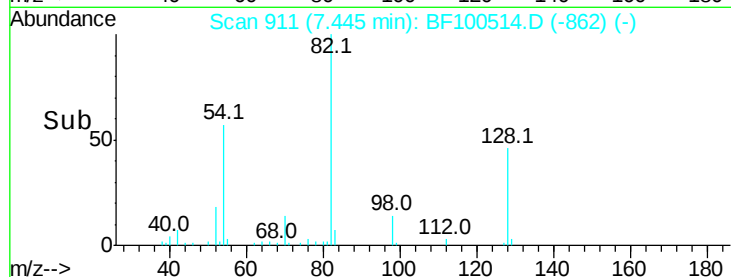
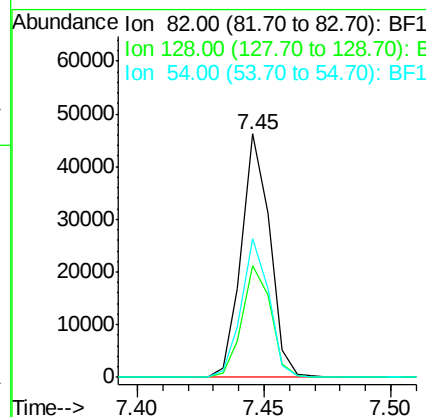
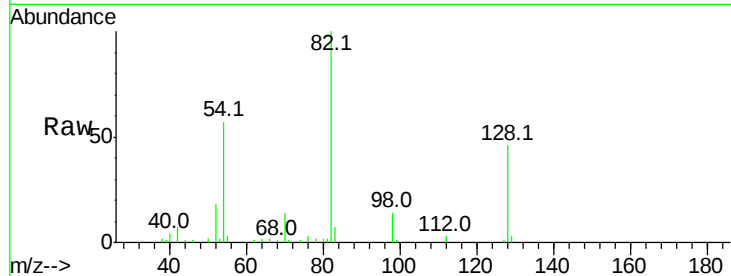
#23
 Nitrobenzene-d5
 Concen: 8.736 ng
 RT: 7.45 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: BF100514.D
 Acq: 13 Nov 2017 20:54

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-111017

Tot Ion	82	Resp	36048
Ion Ratio	100	Lower	Upper
128	46.1	36.1	54.1
54	56.7	41.4	62.2

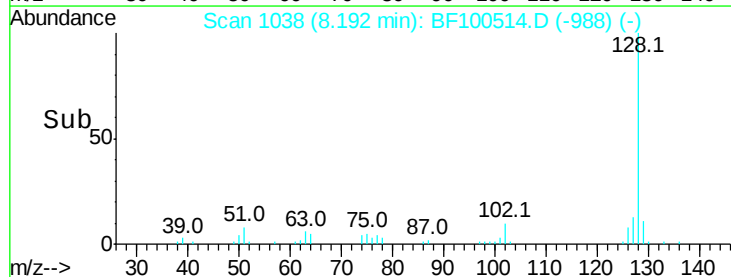
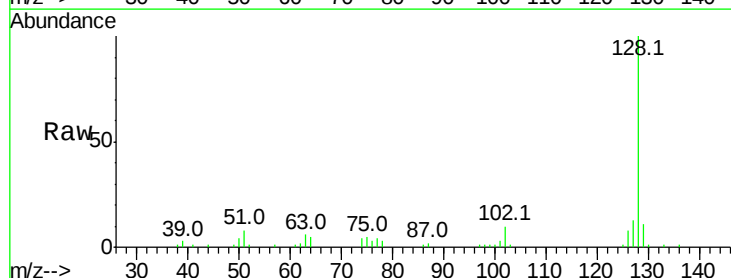
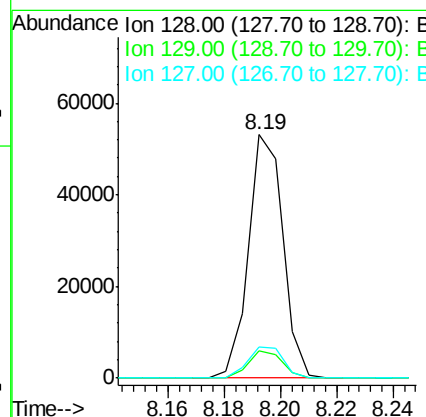
Manual Integrations
 APPROVED

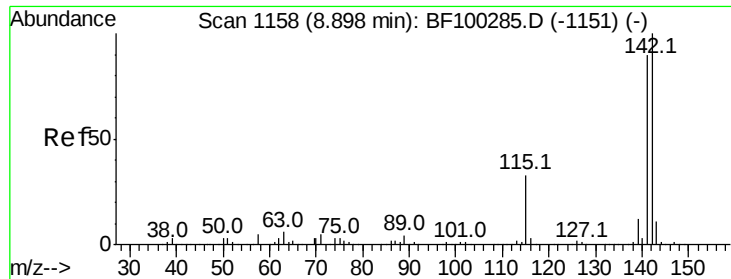
SOHIL
 11/14/2017 5:20:39 PM



#31
 Naphthalene
 Concen: 3.417 ng
 RT: 8.19 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: BF100514.D
 Acq: 13 Nov 2017 20:54

Tgt Ion	128	Resp	44896
Ion Ratio	100	Lower	Upper
129	11.2	8.8	13.2
127	13.0	10.9	16.3





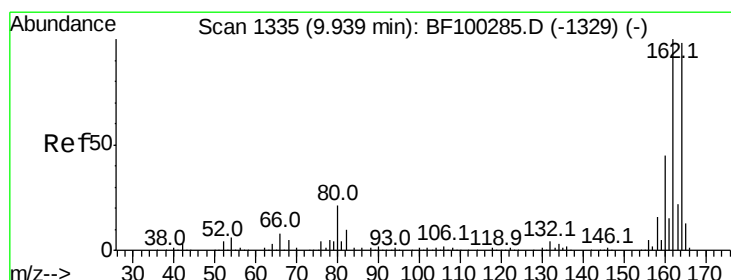
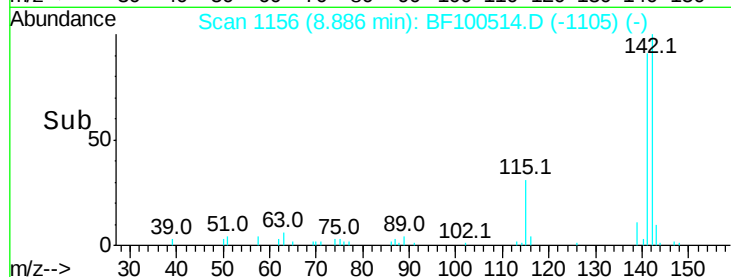
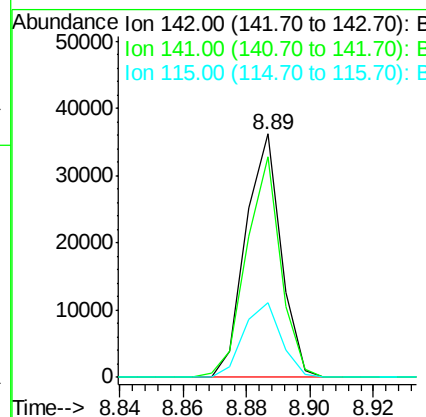
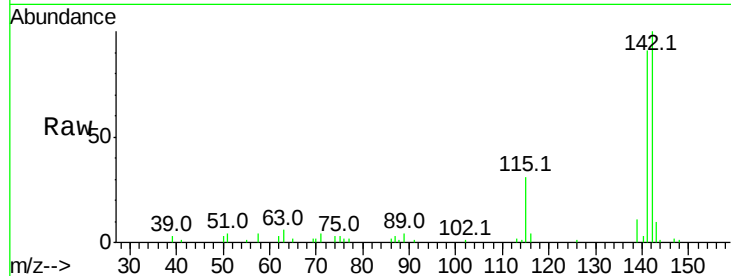
#37
2-Methylnaphthalene
Concen: 3.204 ng
RT: 8.89 min Scan# 1156
Delta R.T. 0.00 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	30.8	26.1	39.1

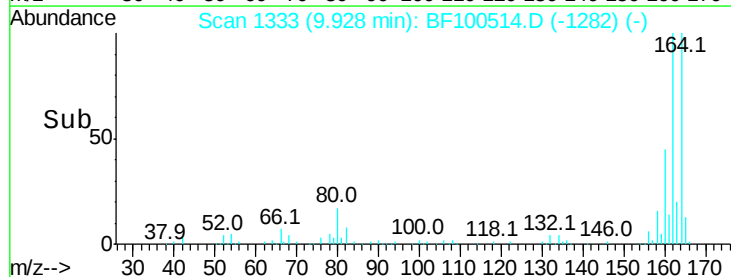
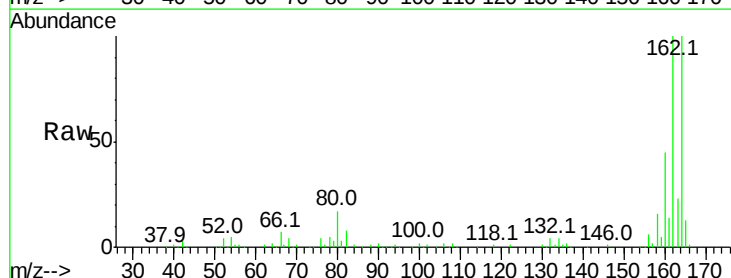
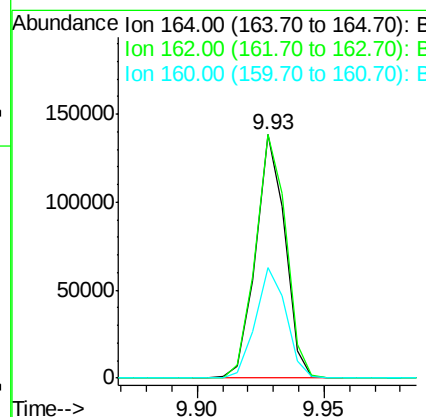
Manual Integrations
APPROVED

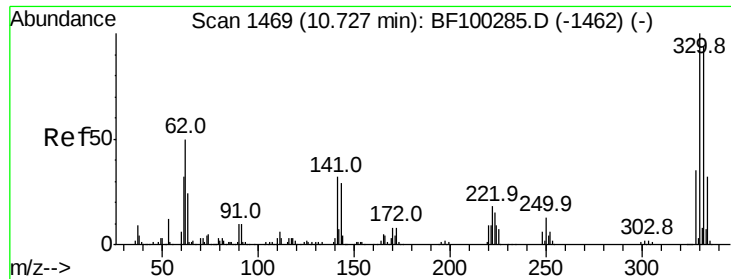
SOHIL
11/14/2017 5:20:39 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1333
Delta R.T. 0.00 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.0	86.1	129.1
160	45.1	38.3	57.5





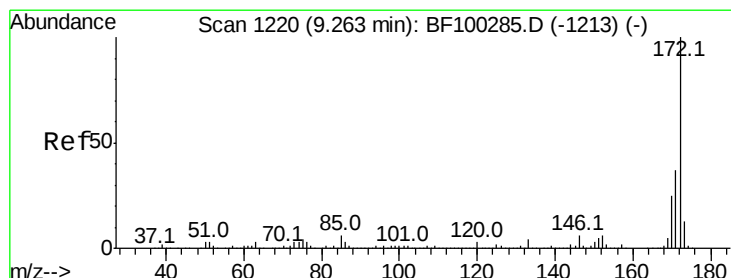
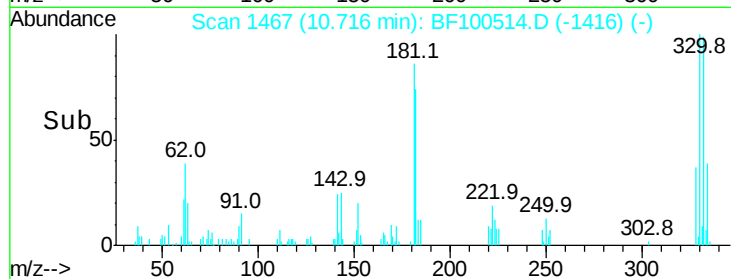
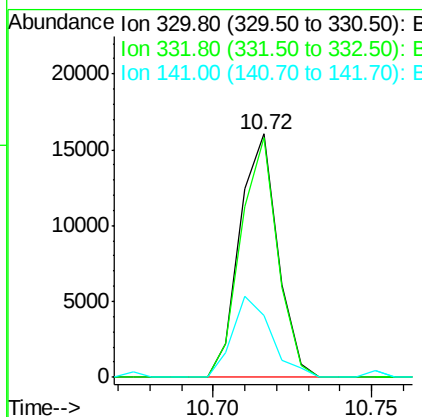
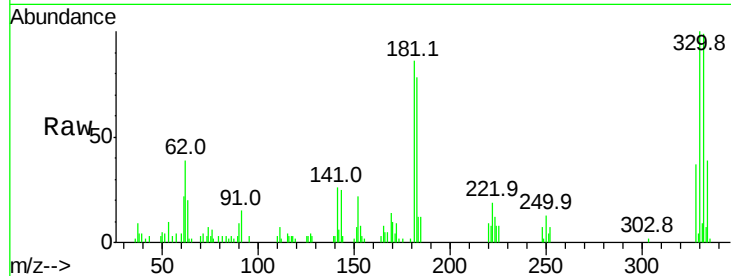
#41
 2,4,6-Tribromophenol
 Concen: 11.709 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: BF100514.D
 Acq: 13 Nov 2017 20:54

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-111017

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.0	115.6
141	34.0	29.9	44.9

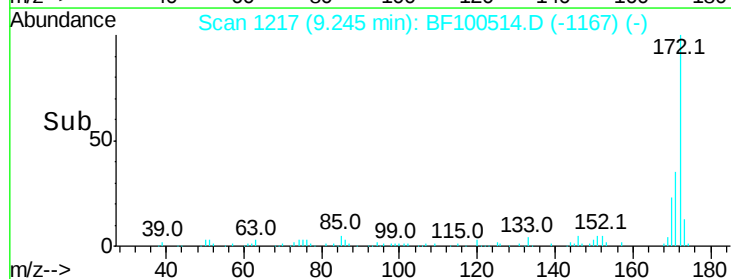
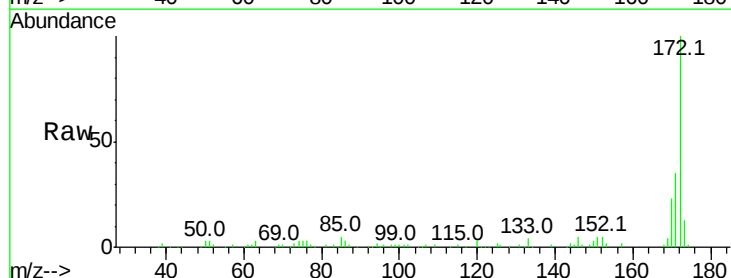
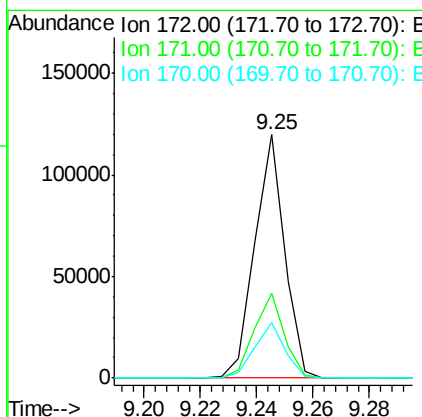
Manual Integrations
 APPROVED

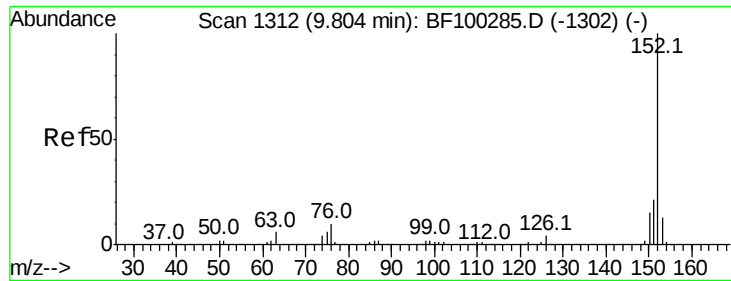
SOHIL
 11/14/2017 5:20:39 PM



#44
 2-Fluorobiphenyl
 Concen: 11.985 ng
 RT: 9.25 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: BF100514.D
 Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	22.6	19.6	29.4





#48

Acenaphthylene

Concen: 3.419 ng

RT: 9.79 min Scan# 1310

Delta R.T. 0.00 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Instrument :

BNA_F

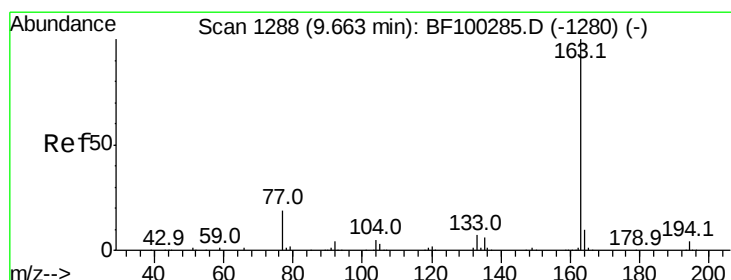
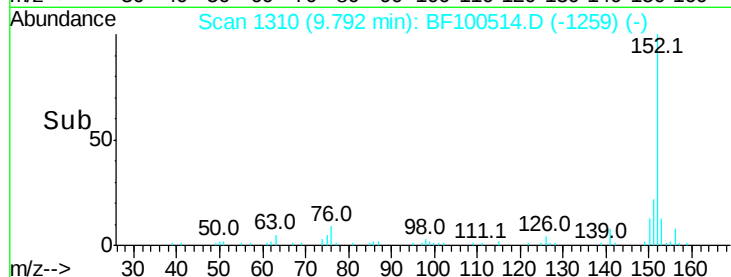
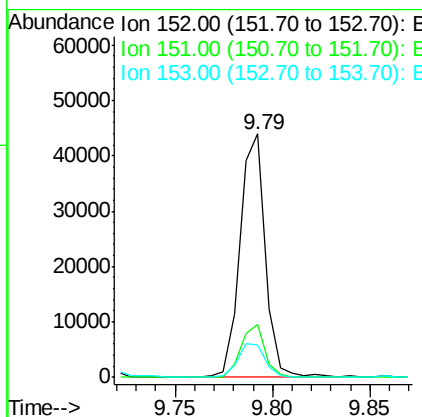
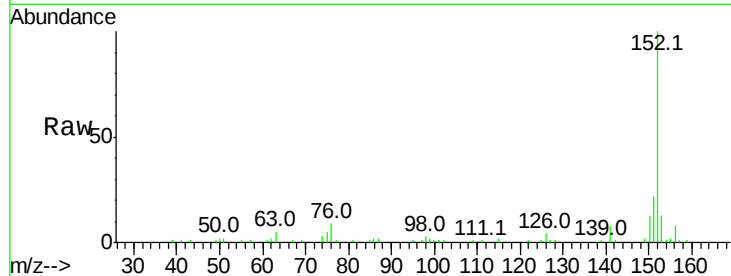
ClientSampleId :

OR-03-111017

Tot Ion	Ion	Ratio	Resp	Lower	Upper
152	100		39604		
151	21.9	16.3	24.5		
153	13.1	10.7	16.1		

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:39 PM



#49

Dimethylphthalate

Concen: 2.112 ng

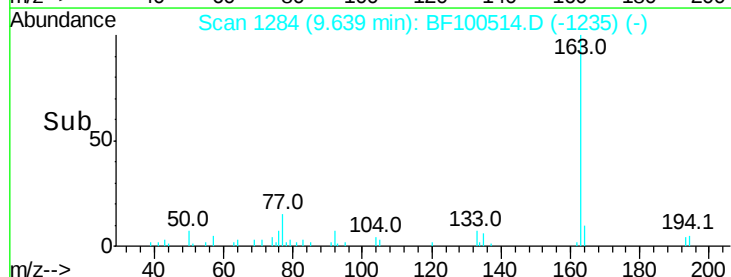
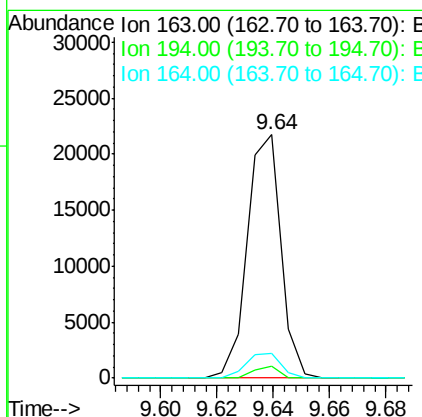
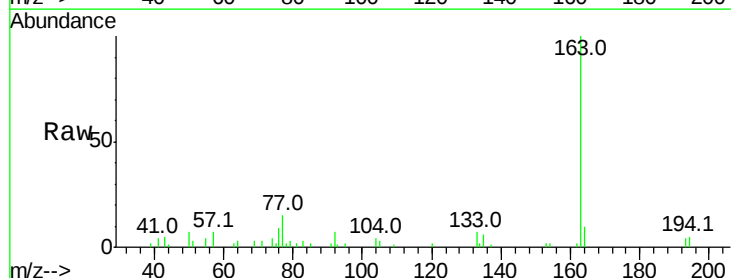
RT: 9.64 min Scan# 1284

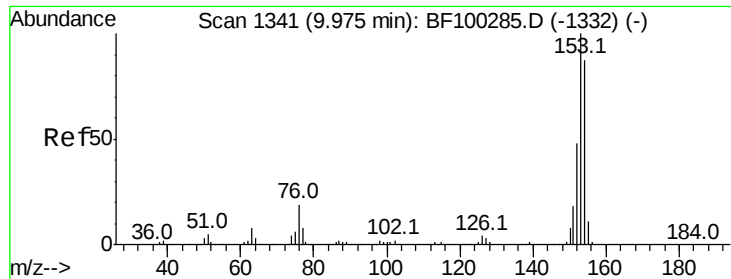
Delta R.T. -0.01 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
163	100		17961		
194	4.7	2.7	4.1#		
164	10.3	8.2	12.2		





#51

Acenaphthene

Concen: 4.381 ng

RT: 9.96 min Scan# 1339

Delta R.T. 0.00 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Instrument :

BNA_F

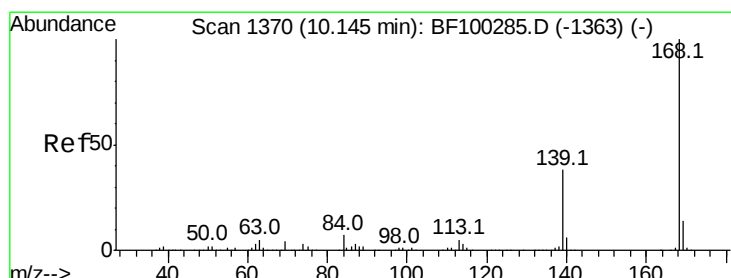
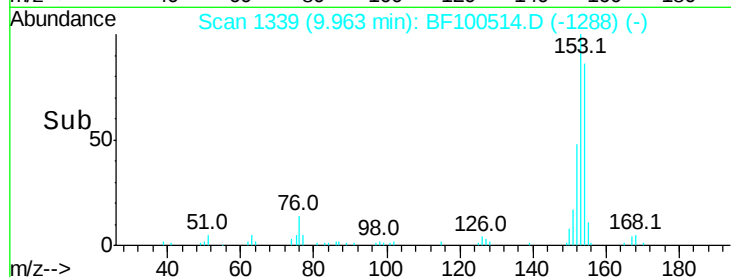
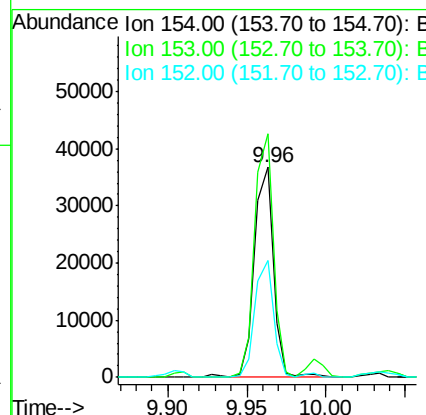
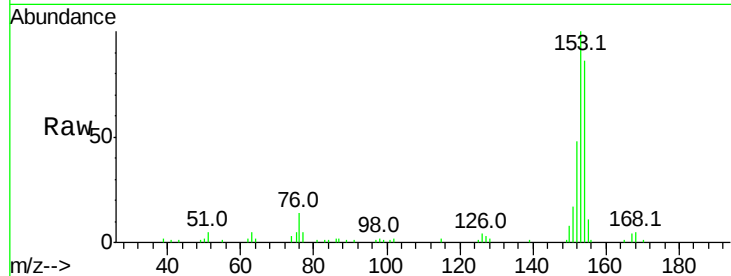
ClientSampleId :

OR-03-111017

Tot Ion:	154	Resp:	30868
Ion Ratio	Lower	Upper	
154	100		
153	115.9	91.2	136.8
152	55.6	43.8	65.8

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:39 PM



#54

Dibenzofuran

Concen: 2.847 ng

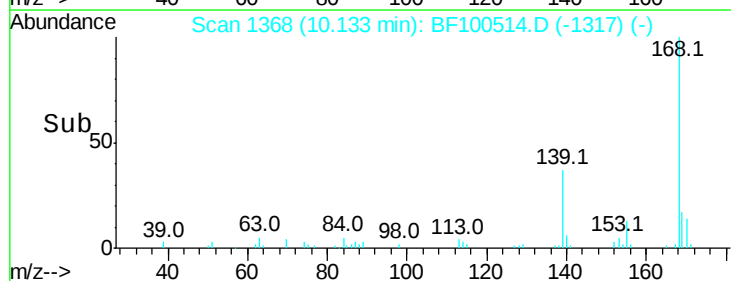
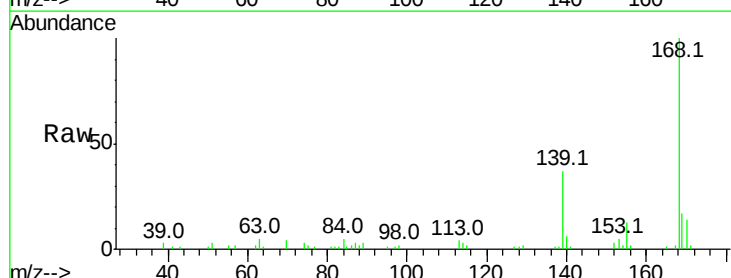
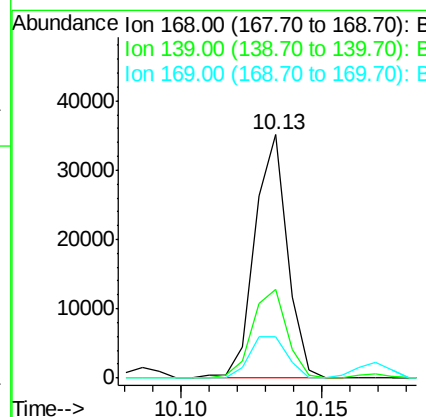
RT: 10.13 min Scan# 1368

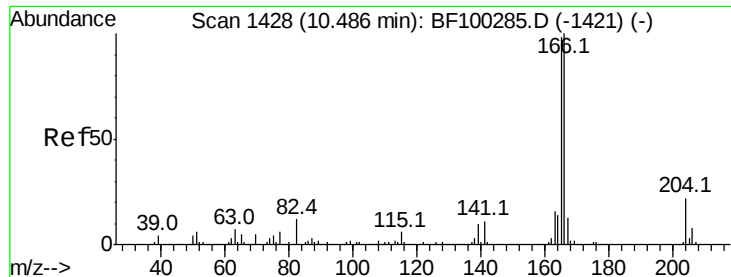
Delta R.T. 0.00 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Tgt Ion:	168	Resp:	28118
Ion Ratio	Lower	Upper	
168	100		
139	36.6	30.1	45.1
169	17.2	10.9	16.3#





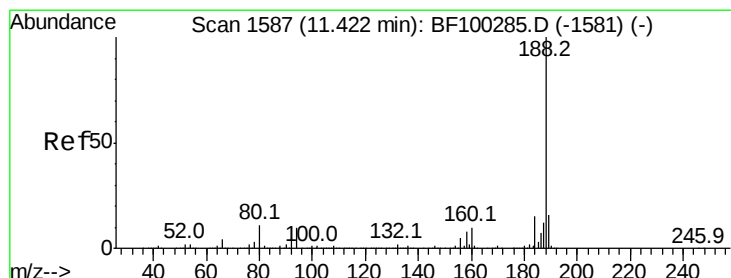
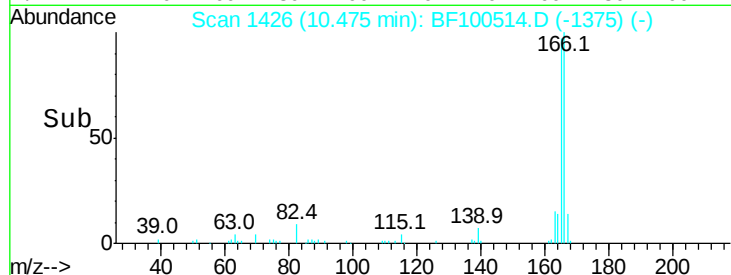
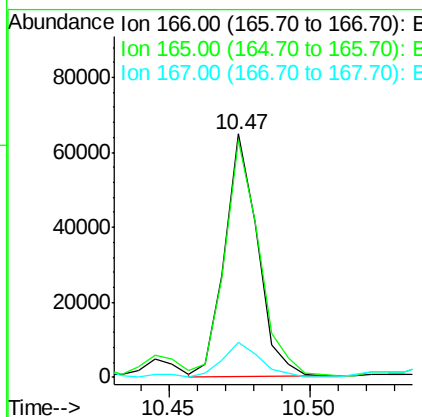
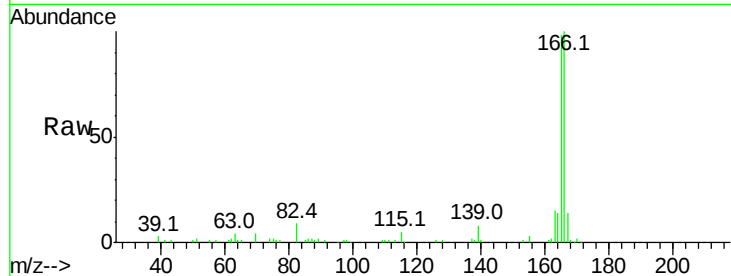
#57
Fluorene
 Concen: 7.237 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. 0.00 min
 Lab File: BF100514.D
 Acq: 13 Nov 2017 20:54

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-111017

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.6	79.8	119.8
167	14.1	10.6	16.0

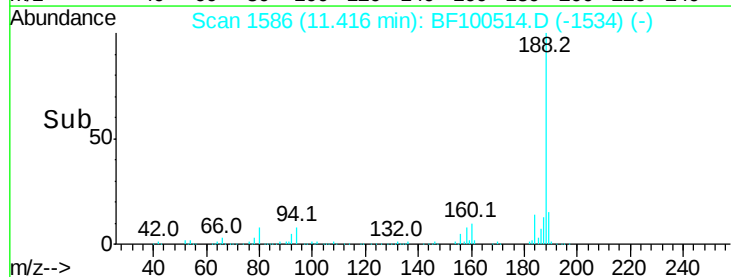
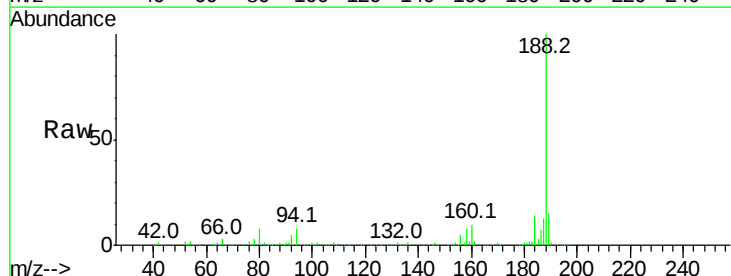
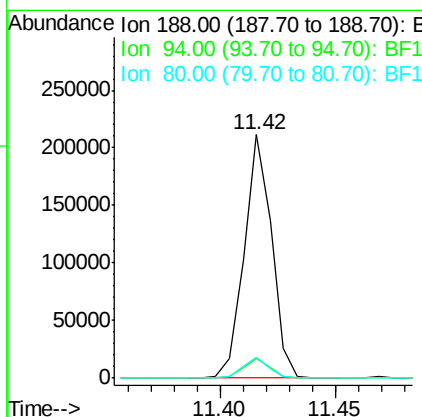
Manual Integrations
 APPROVED

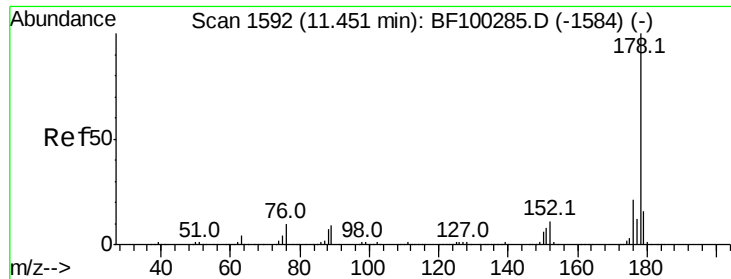
SOHIL
 11/14/2017 5:20:39 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: BF100514.D
 Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.0	8.5	12.7#
80	8.4	9.2	13.8#





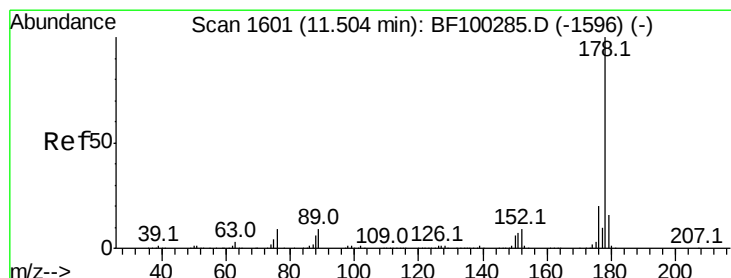
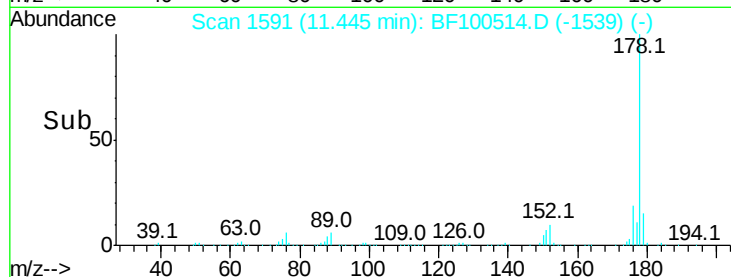
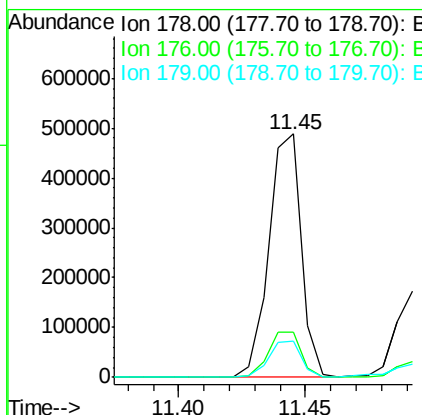
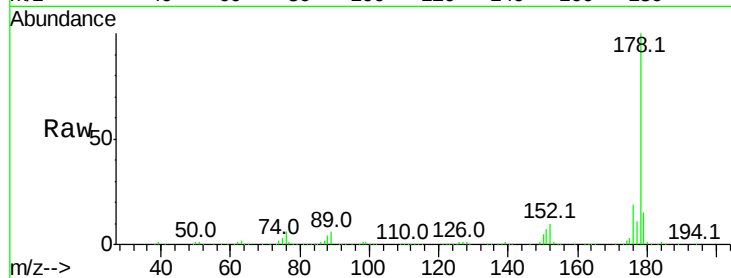
#70
Phenanthrene
Concen: 47.321 ng
RT: 11.45 min Scan# 1591
Delta R.T. 0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	14.9	13.0	19.6

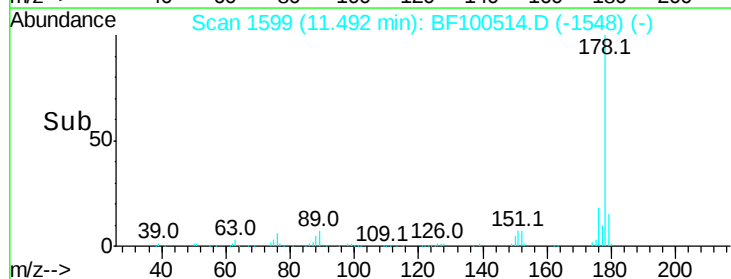
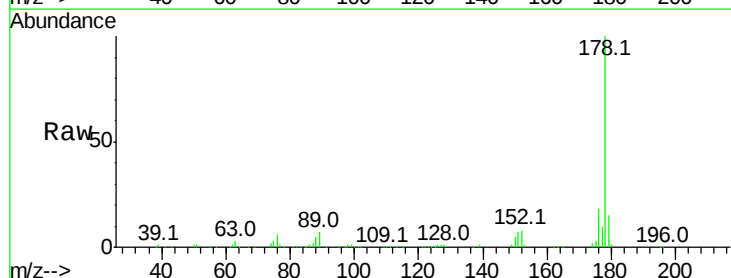
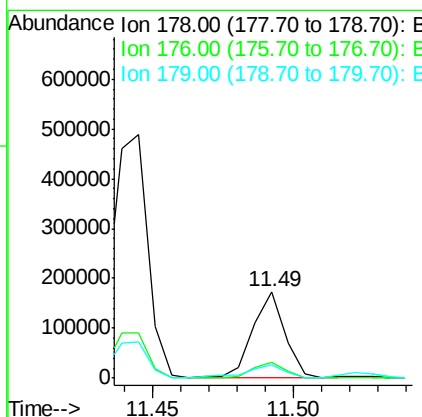
Manual Integrations
APPROVED

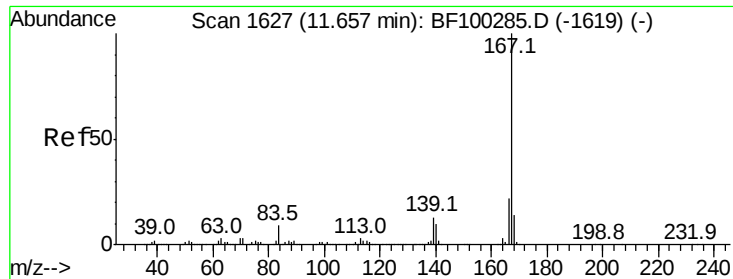
SOHIL
11/14/2017 5:20:39 PM



#71
Anthracene
Concen: 14.258 ng
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	15.2	12.6	19.0





#72

Carbazole

Concen: 3.149 ng

RT: 11.65 min Scan# 1625

Delta R.T. 0.00 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Instrument :

BNA_F

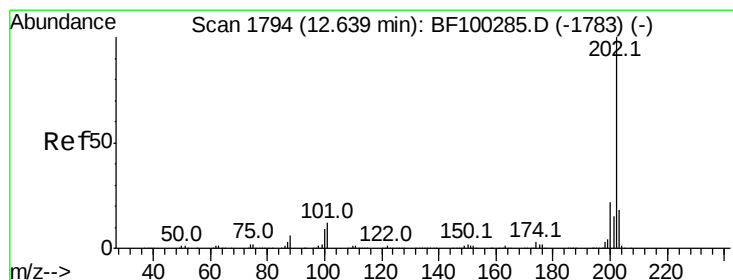
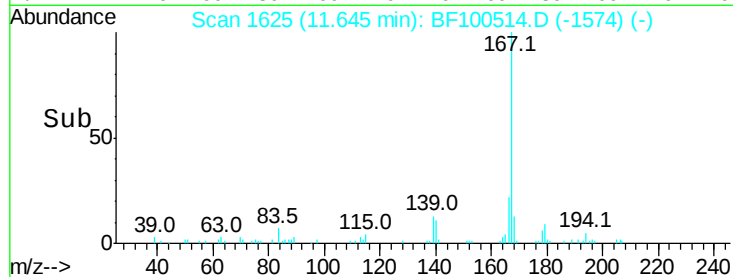
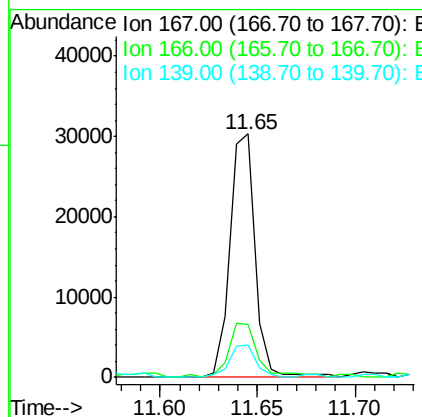
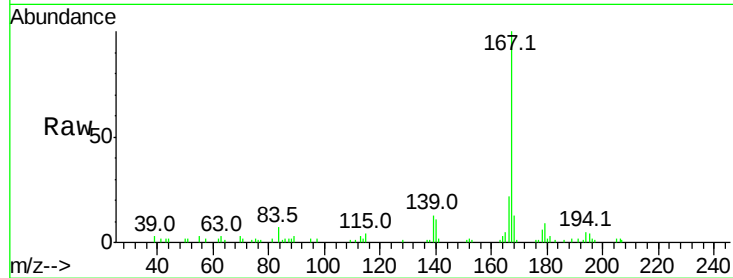
ClientSampleId :

OR-03-111017

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.6	26.4
139	13.4	10.9	16.3

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:39 PM



#74

Fluoranthene

Concen: 64.890 ng

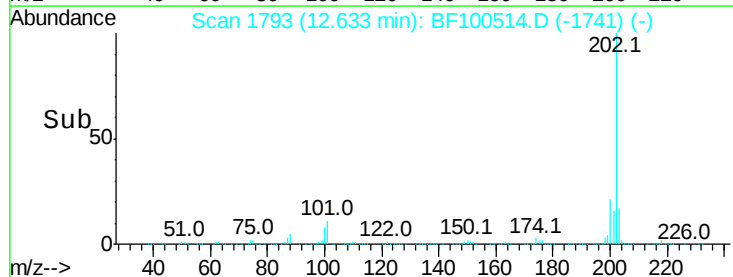
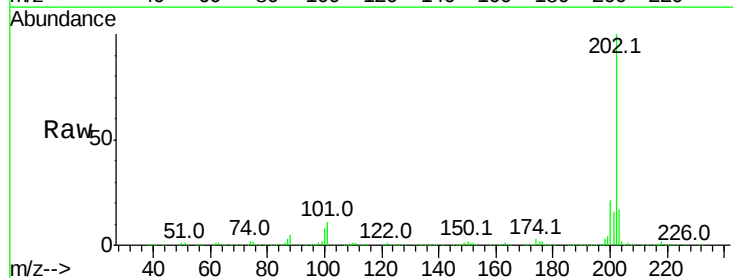
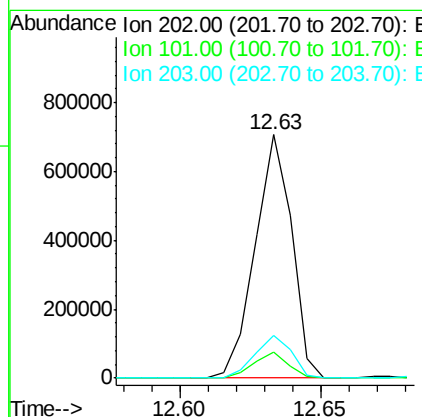
RT: 12.63 min Scan# 1793

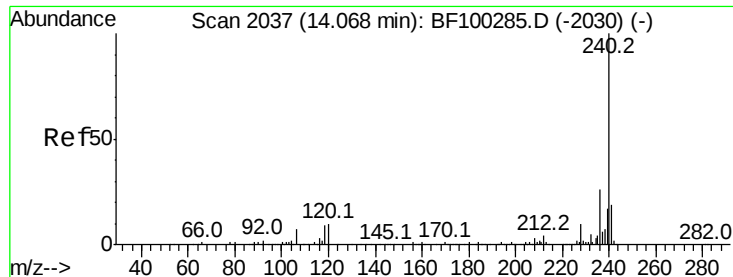
Delta R.T. 0.01 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	34.1
203	17.4	0.0	38.1





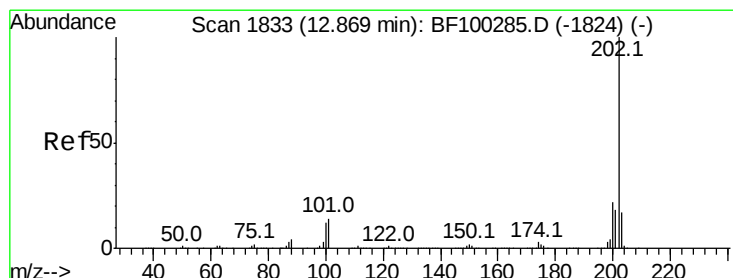
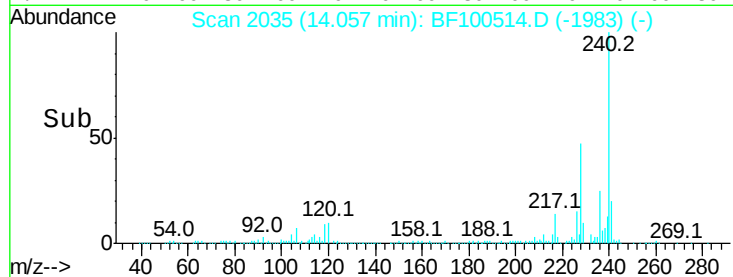
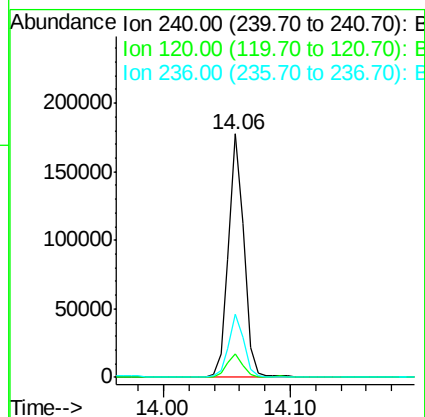
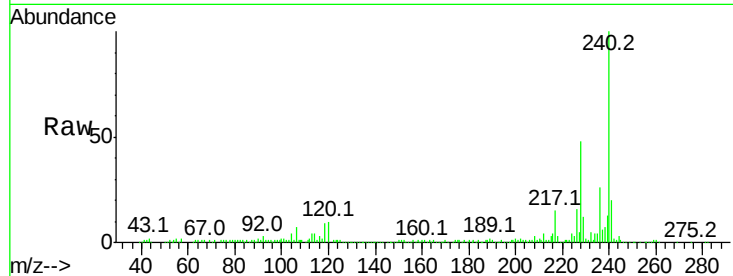
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Tot Ion	Ratio	Resp Lower	Upper
240	100		
120	9.9	9.5	14.3
236	25.8	20.7	31.1

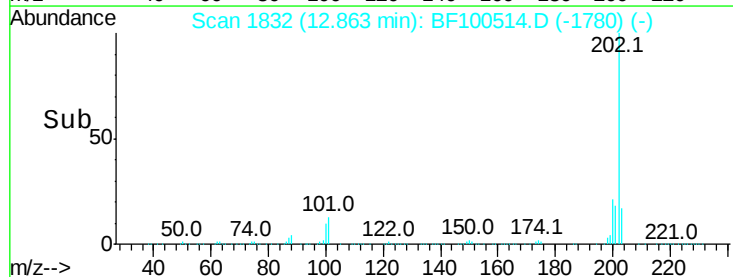
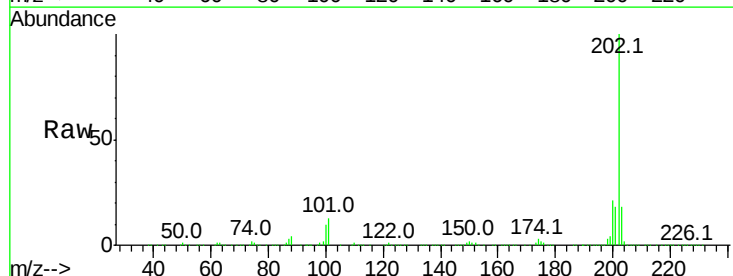
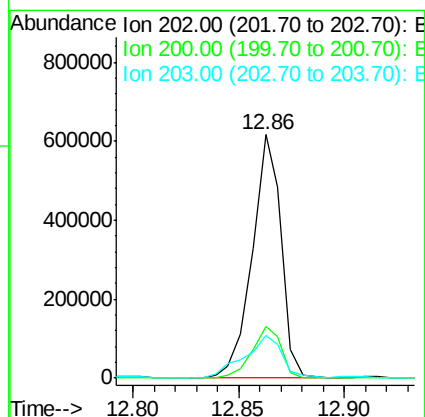
Manual Integrations
APPROVED

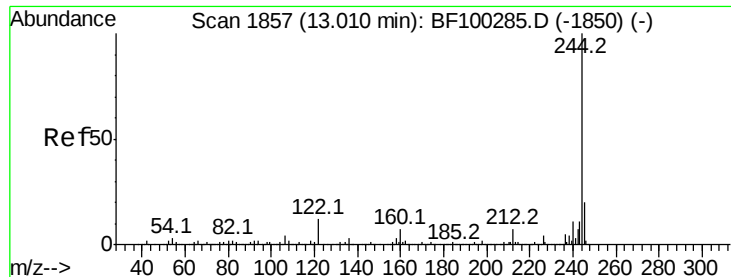
SOHIL
11/14/2017 5:20:39 PM



#77
Pyrene
Concen: 55.321 ng
RT: 12.86 min Scan# 1832
Delta R.T. 0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
200	21.3	17.4	26.2
203	17.5	14.3	21.5





#78

Terphenyl-d14

Concen: 9.776 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.00 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Instrument :

BNA_F

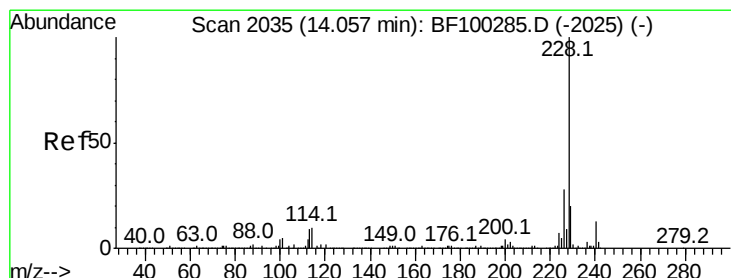
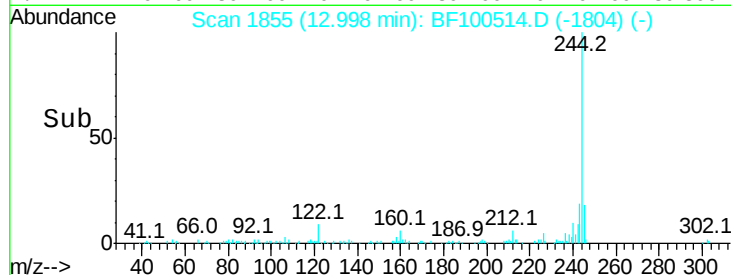
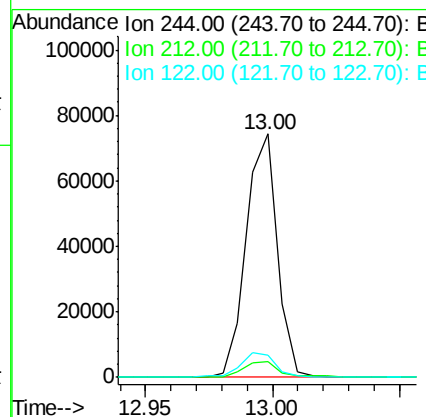
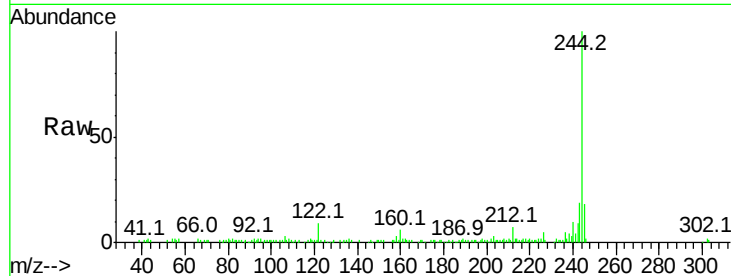
ClientSampleId :

OR-03-111017

Tot Ion:	244	Resp:	63247
Ion Ratio	Lower	Upper	
244	100		
212	6.6	5.4	8.0
122	8.9	11.0	16.4#

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:39 PM



#80

Benzo(a)anthracene

Concen: 35.754 ng

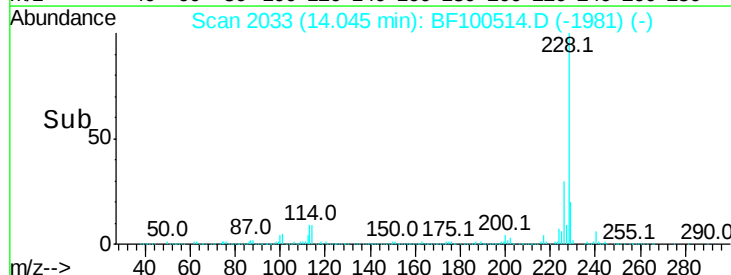
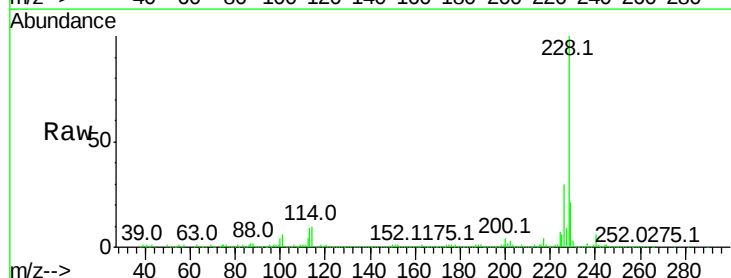
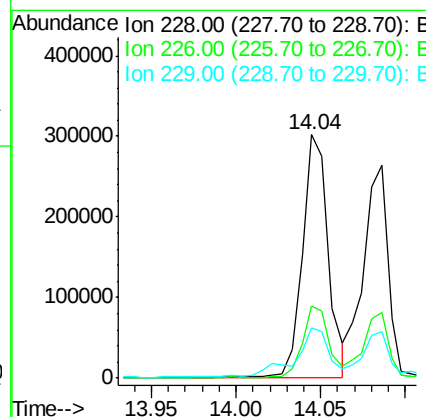
RT: 14.04 min Scan# 2033

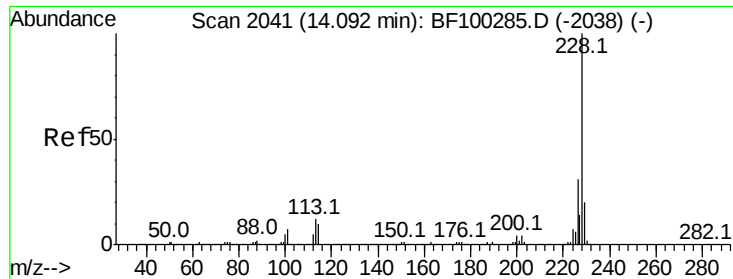
Delta R.T. 0.01 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Tgt Ion:	228	Resp:	320075
Ion Ratio	Lower	Upper	
228	100		
226	29.8	22.6	33.8
229	20.7	15.8	23.6





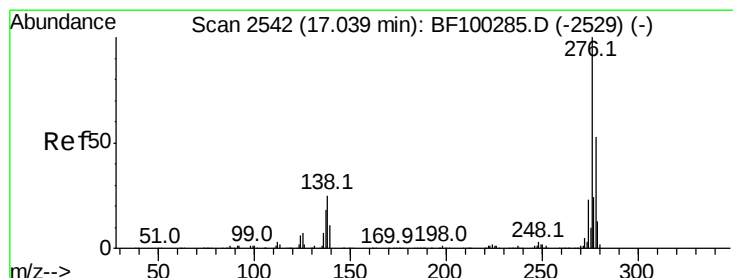
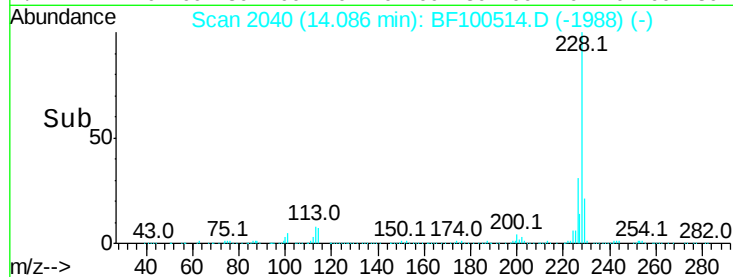
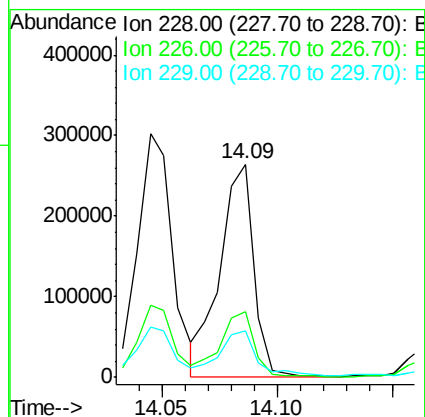
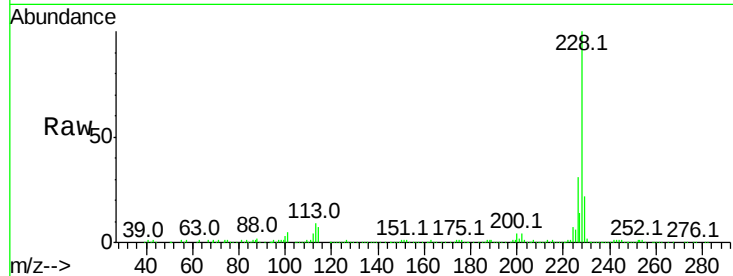
#82
Chrysene
Concen: 30.991 ng
RT: 14.09 min Scan# 2040
Delta R.T. 0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Tot Ion:	228	Resp:	268664
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.0	37.6
229	21.7	16.2	24.4

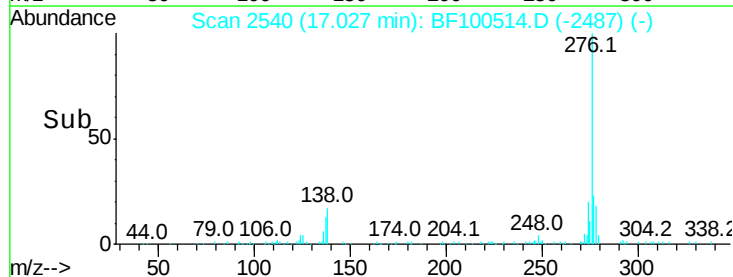
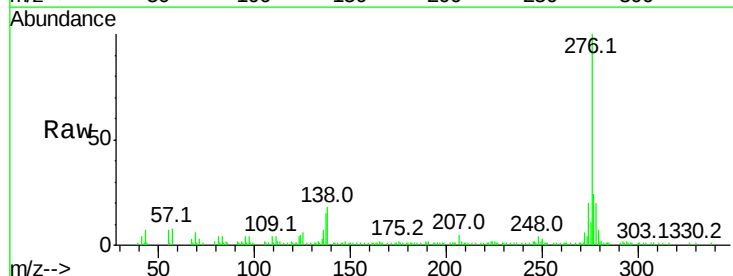
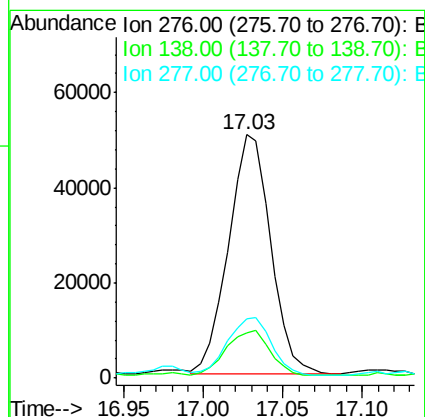
Manual Integrations
APPROVED

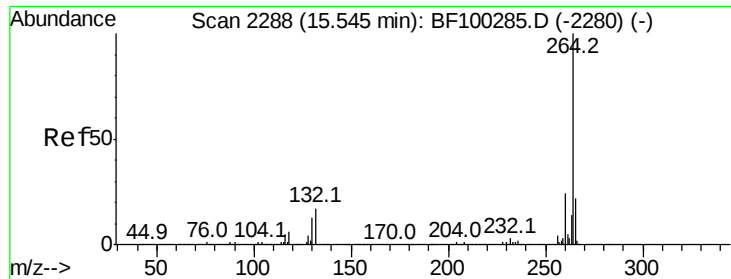
SOHIL
11/14/2017 5:20:39 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 13.273 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Tgt Ion:	276	Resp:	93069
Ion Ratio	Lower	Upper	
276	100		
138	19.7	25.0	37.6#
277	25.4	20.1	30.1





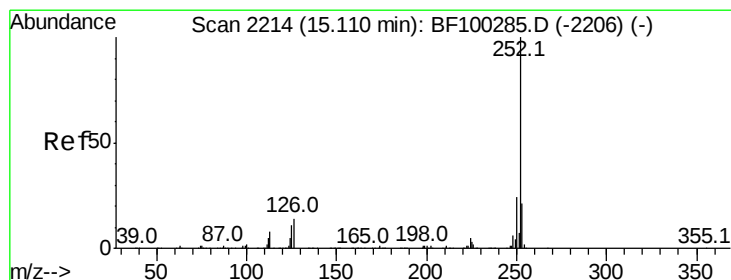
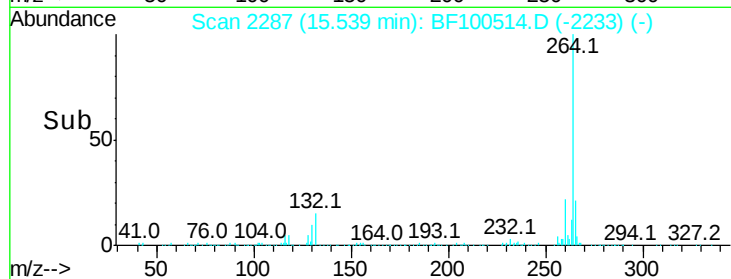
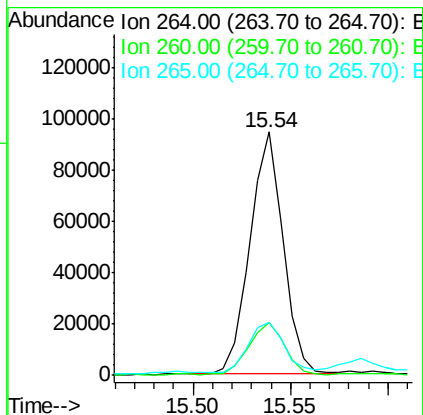
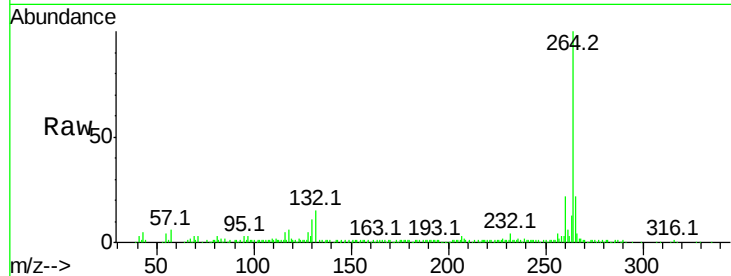
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.02 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Tot Ion	Ratio	Lower	Upper
264	100		
260	21.9	19.2	28.8
265	21.8	17.5	26.3

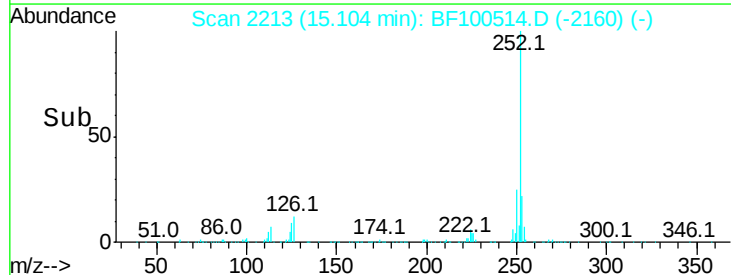
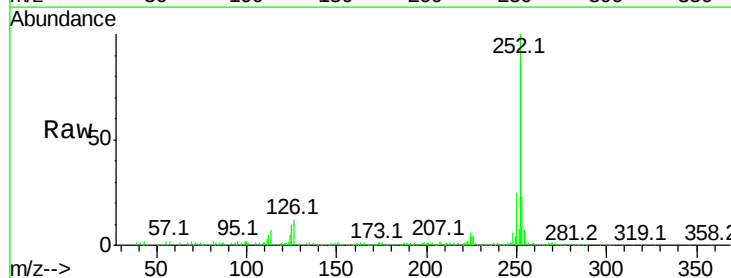
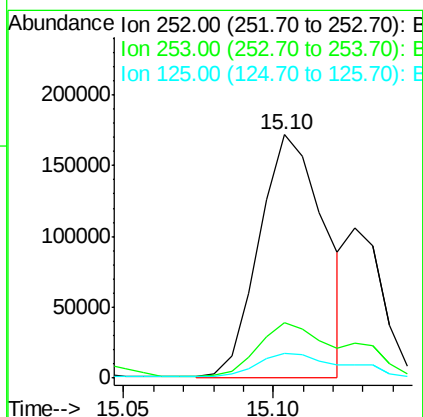
Manual Integrations
APPROVED

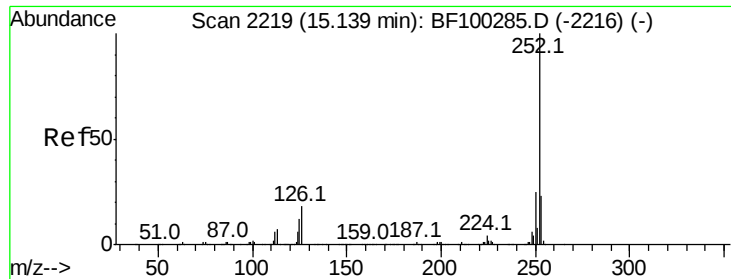
SOHIL
11/14/2017 5:20:39 PM



#87
Benzo(b)fluoranthene
Concen: 39.272 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	9.9	9.0	13.6





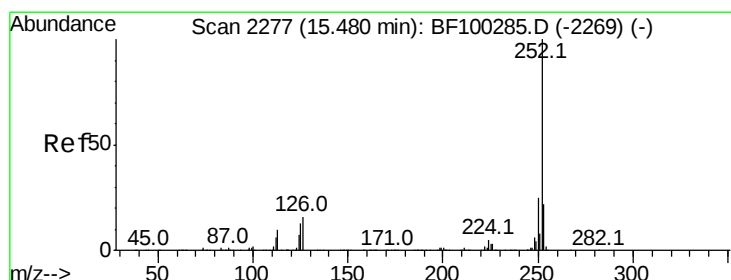
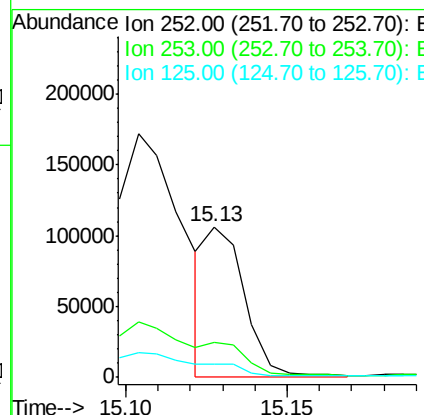
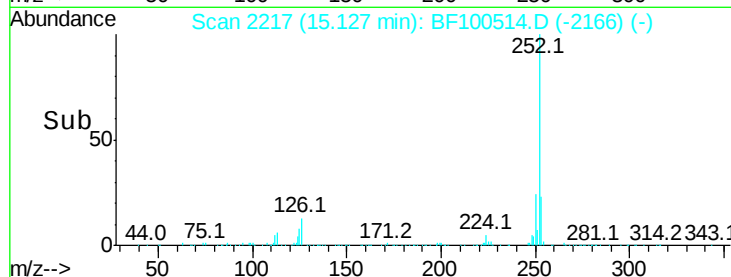
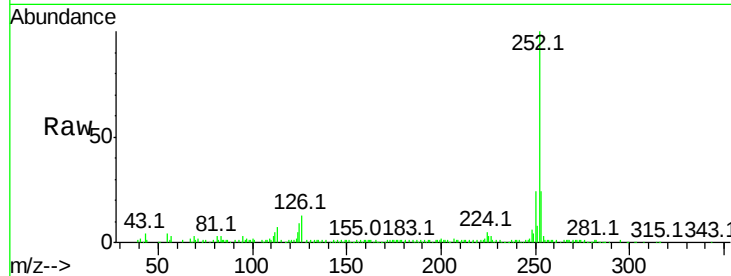
#88
Benzo(k)fluoranthene
Concen: 14.289 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.00 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Instrument :
BNA_F
ClientSampleId :
OR-03-111017

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	9.2	10.2	15.2

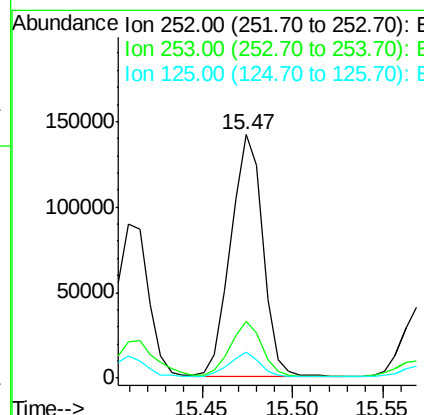
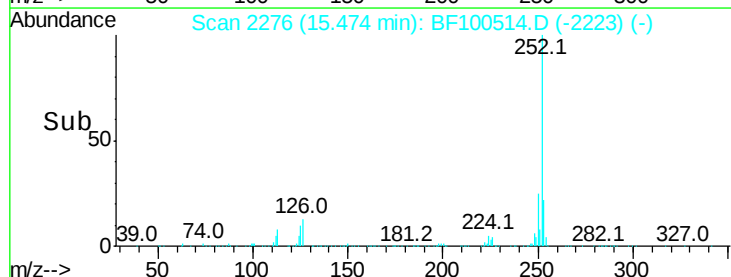
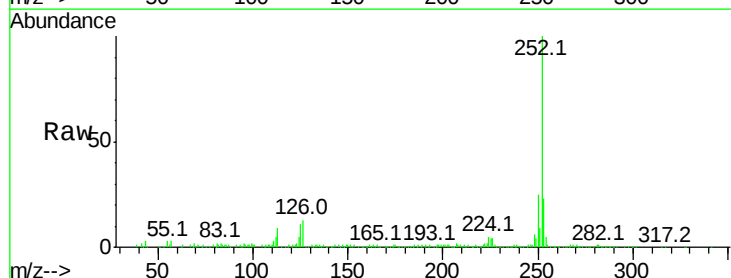
Manual Integrations
APPROVED

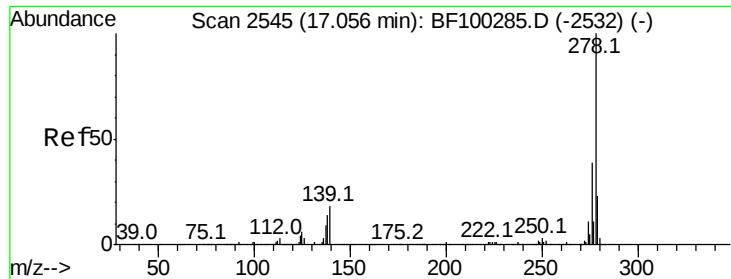
SOHIL
11/14/2017 5:20:39 PM



#89
Benzo(a)pyrene
Concen: 29.860 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF100514.D
Acq: 13 Nov 2017 20:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	10.7	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.300 ng

RT: 17.04 min Scan# 2542

Delta R.T. 0.01 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Instrument :

BNA_F

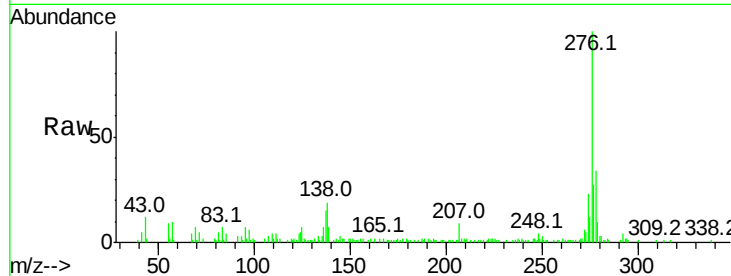
ClientSampleId :

OR-03-111017

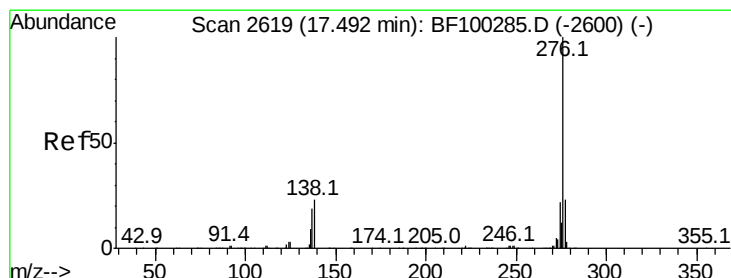
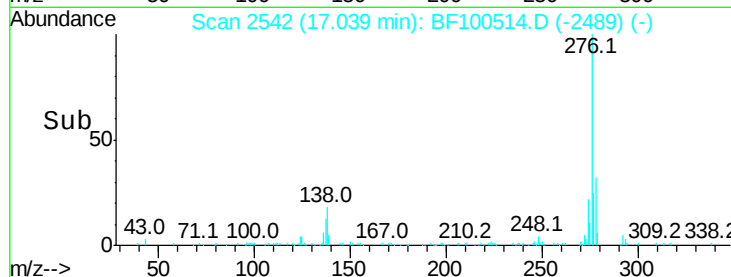
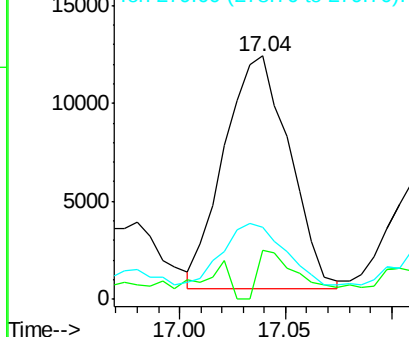
Tot Ion:	278	Resp:	25508
Ion Ratio	Lower	Upper	
278	100		
139	20.0	15.9	23.9
279	29.5	19.0	28.4#

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:39 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: 18.238 ng

RT: 17.48 min Scan# 2617

Delta R.T. 0.02 min

Lab File: BF100514.D

Acq: 13 Nov 2017 20:54

Tgt Ion:	276	Resp:	85929
Ion Ratio	Lower	Upper	
276	100		
277	25.0	17.9	26.9
138	19.9	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

