

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101431.D
 Acq On : 15 Dec 2017 8:51
 Operator : SJ/JU
 Sample : I6827-01DL 200X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-01DL

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:45:20 PM

Quant Time: Dec 15 10:44:50 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	155606	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	603298	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	264939	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	438493	20.00	ng	0.00
75) Chrysene-d12	13.99	240	300131	20.00	ng	-0.01
86) Perylene-d12	15.47	264	301284	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.51	99	113	0.01	ng	0.05
23) Nitrobenzene-d5	0.00	82	0	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.17	172	1137	0.07	ng	0.00
78) Terphenyl-d14	12.93	244	1291	0.10	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.12	128	2113618	69.590	ng	99
37) 2-Methylnaphthalene	8.81	142	322552	16.300	ng	99
45) 1,1'-Biphenyl	9.27	154	83485	3.553	ng	97
48) Acenaphthylene	9.72	152	410270	14.448	ng	100
51) Acenaphthene	9.89	154	63338	3.713	ng	98
54) Dibenzofuran	10.06	168	297720	13.732	ng	100
57) Fluorene	10.40	166	362156	19.746	ng	98
70) Phenanthrene	11.37	178	989551	40.580	ng	99
71) Anthracene	11.42	178	407893	16.375	ng	99
72) Carbazole	11.58	167	146243	6.271	ng	99
74) Fluoranthene	12.56	202	607325	23.728	ng	98
77) Pvrene	12.79	202	450640	20.006	ng	98
80) Benzo(a)anthracene	13.99	228	209600m	10.576	ng	
82) Chrysene	14.02	228	167895	8.973	ng	98
85) Indeno(1,2,3-cd)pyrene	16.95	276	56488	3.390	ng	97
87) Benzo(b)fluoranthene	15.04	252	185026m	10.076	ng	
88) Benzo(k)fluoranthene	15.06	252	60764m	3.403	ng	
89) Benzo(a)pyrene	15.40	252	138905	8.205	ng	99
91) Benzo(a,h,i)perylene	17.40	276	48009	3.336	ng	94

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

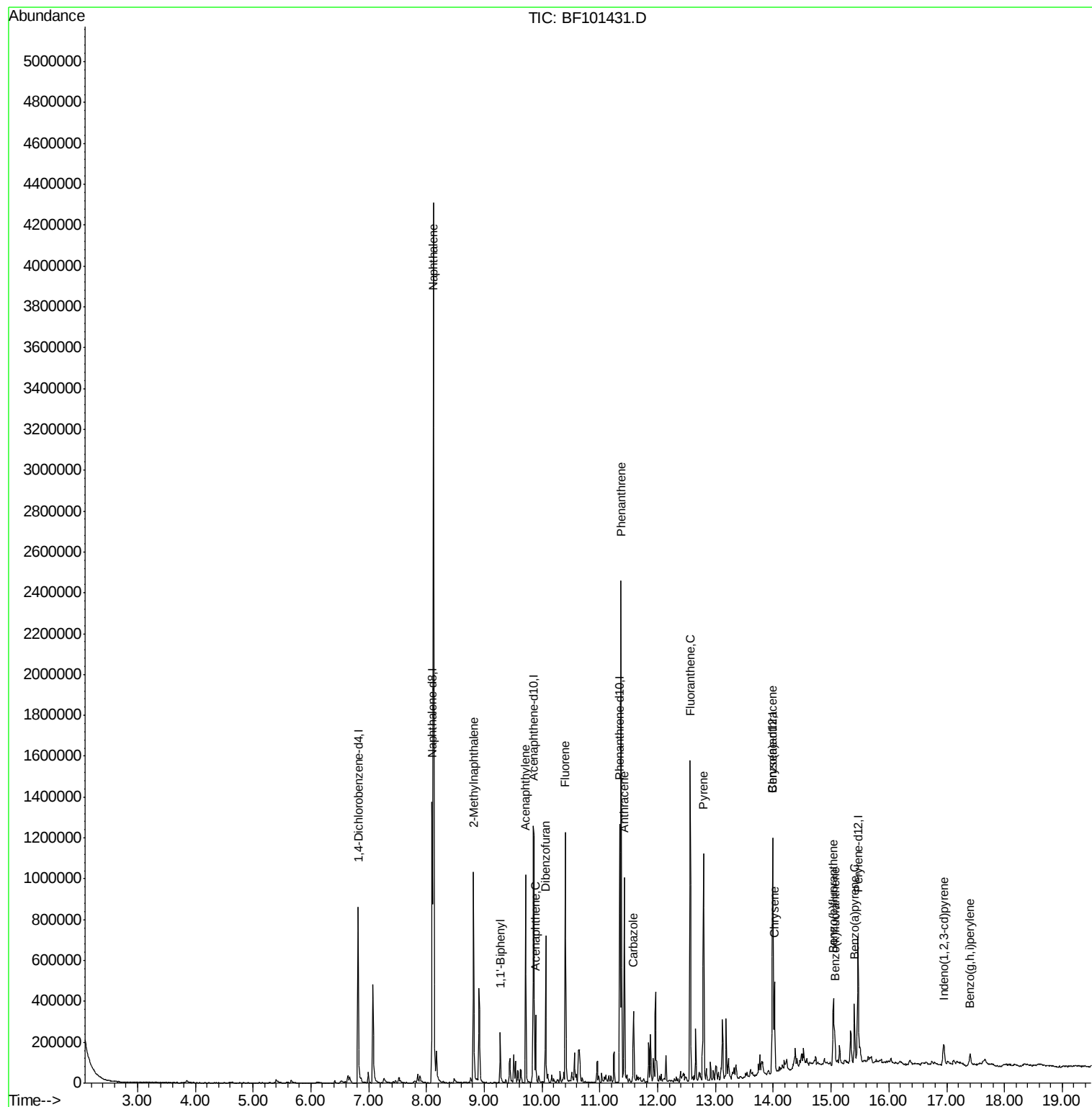
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101431.D
Acq On : 15 Dec 2017 8:51
Operator : SJ/JU
Sample : I6827-01DL 200X
Misc :
ALS Vial : 34 Sample Multiplier: 1

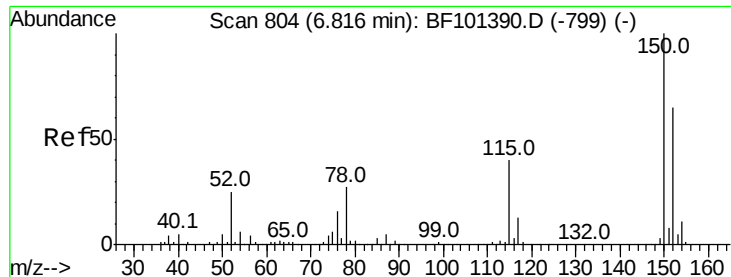
Instrument :
BNA_F
ClientSampleId :
WC-4539-01DL

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM

Quant Time: Dec 15 10:44:50 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 14 15:42:32 2017
Response via : Initial Calibration





#1

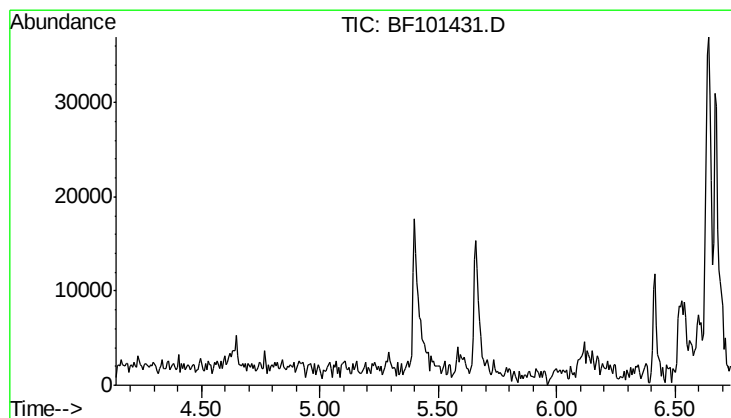
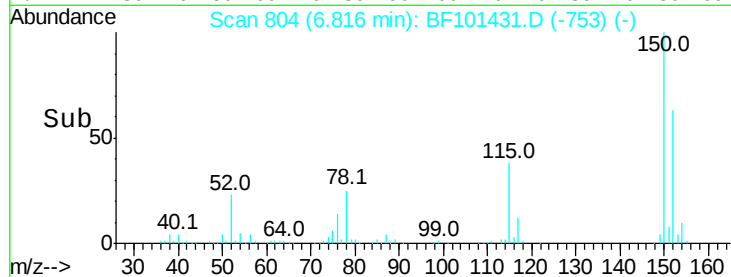
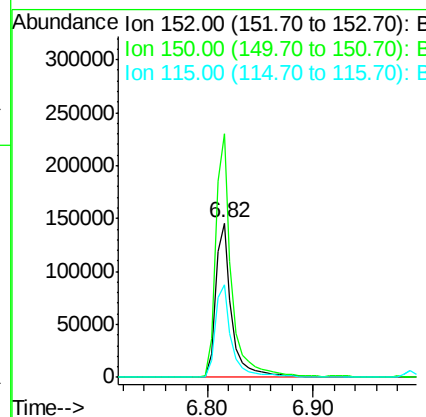
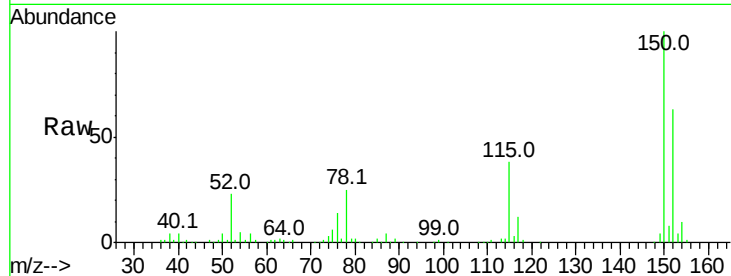
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Instrument :
BNA_F
ClientSampleId :
WC-4539-01DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	124.6	186.8
115	60.0	50.1	75.1

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM

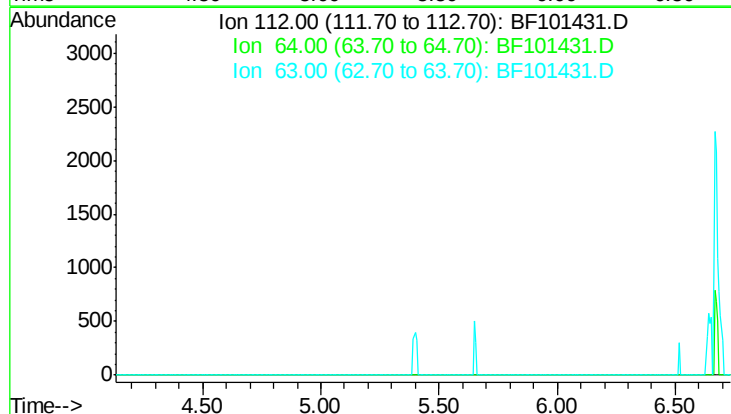


#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.43 min

Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Tgt Ion	Exp Ratio
112	100
64	59.9
63	29.6





#7

Phenol-d6

Concen: 0.009 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.05 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Instrument :

BNA_F

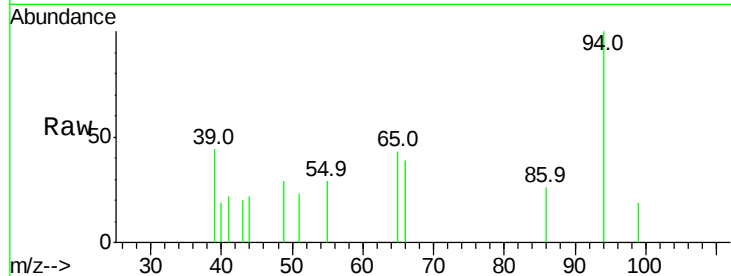
ClientSampleID :

WC-4539-01DL

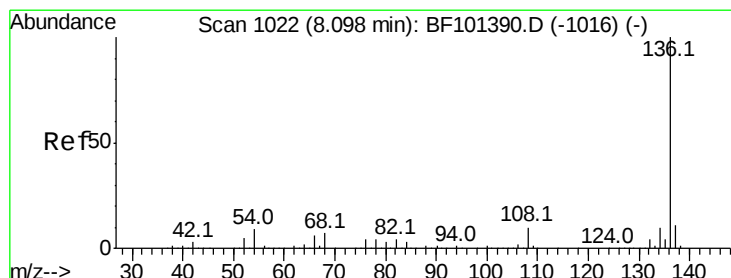
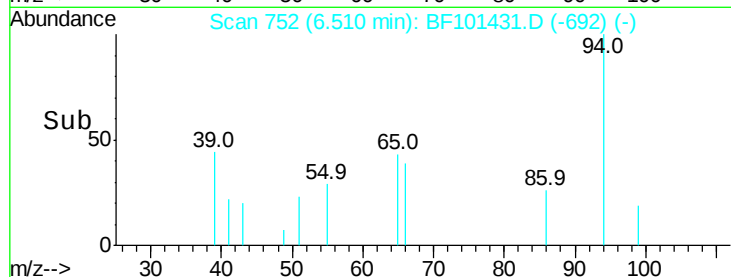
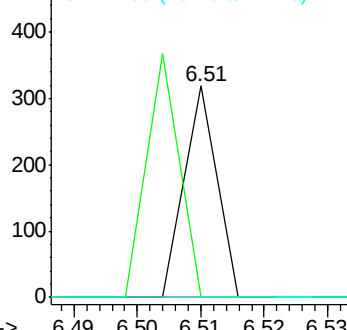
Tot Ion:	99	Resp:	113
Ion Ratio	Lower	Upper	
99	100		
42	0.0	14.5	21.7#
71	0.0	25.4	38.0#

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

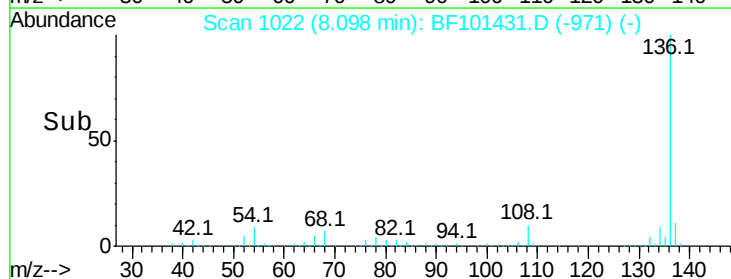
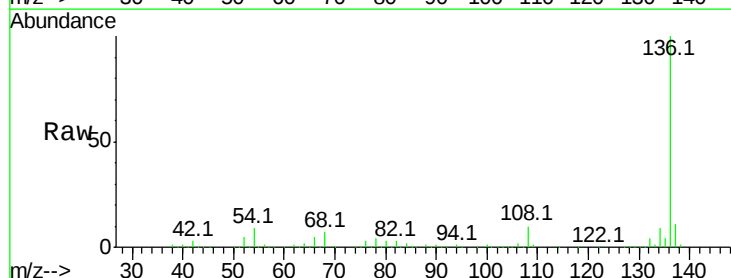
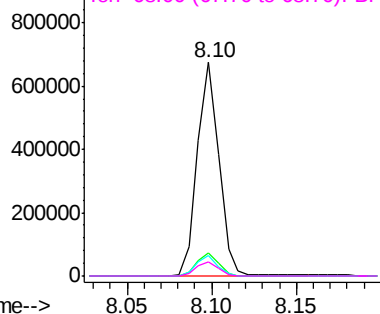
Delta R.T. -0.00 min

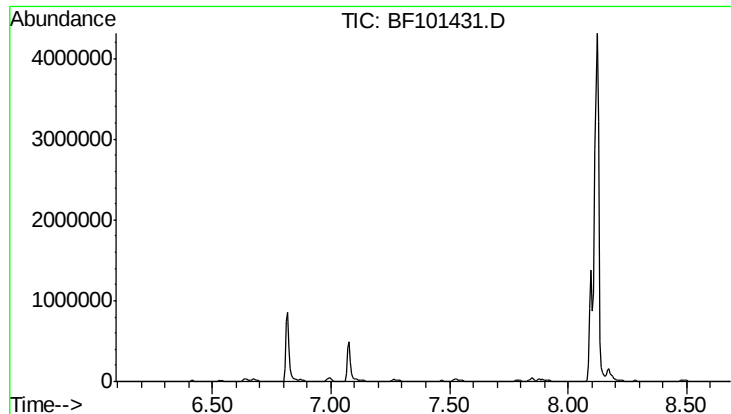
Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Tgt Ion:	136	Resp:	603298
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	9.3	6.6	9.8
68	6.5	5.0	7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





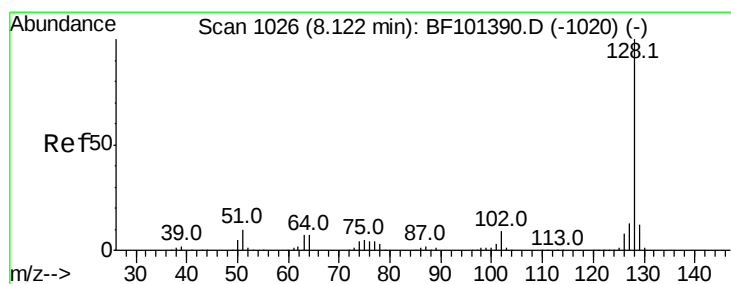
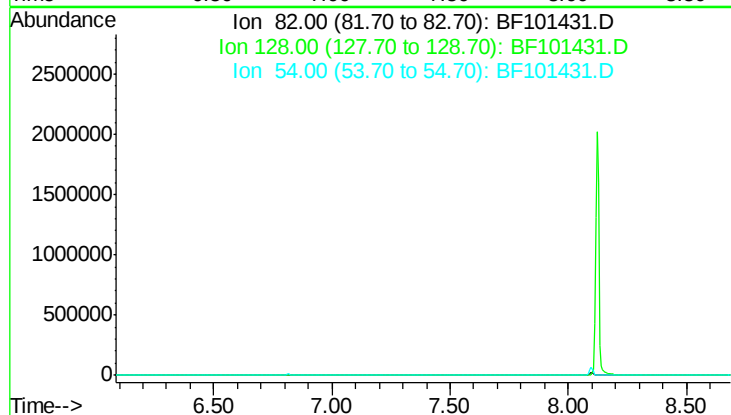
#23
 Nitrobenzene-d5
 Concen: 0.000 ng
 Expected RT: 7.39 min
 Lab File: BF101431.D
 Acq: 15 Dec 2017 8:51

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-01DL

Tot Ion: 82
 Sig Exp Ratio
 82 100
 128 45.1
 54 51.8

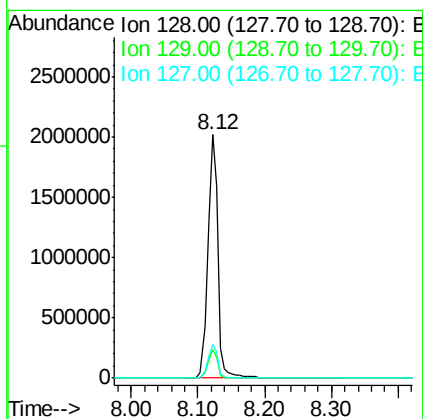
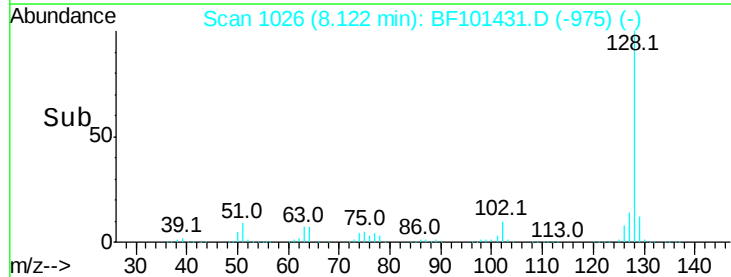
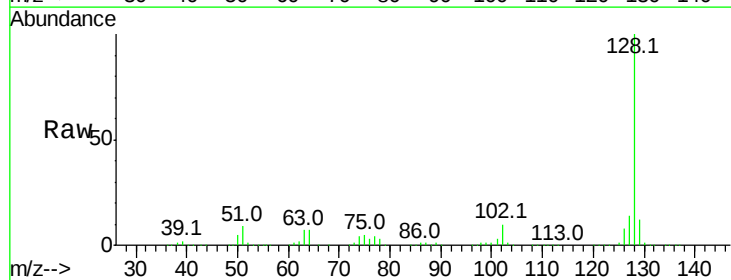
Manual Integrations
 APPROVED

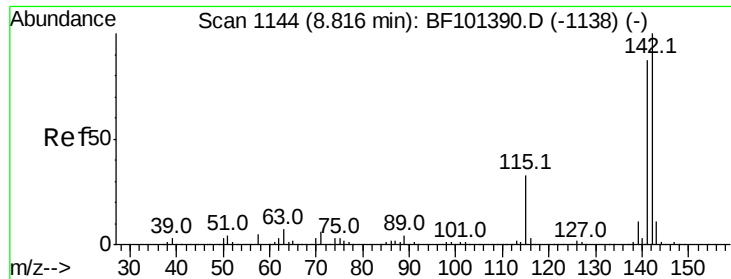
Sohil
 12/15/2017 6:45:20 PM



#31
 Naphthalene
 Concen: 69.590 ng
 RT: 8.12 min Scan# 1026
 Delta R.T. -0.00 min
 Lab File: BF101431.D
 Acq: 15 Dec 2017 8:51

Tgt Ion:128 Resp: 2113618
 Ion Ratio Lower Upper
 128 100
 129 11.5 8.8 13.2
 127 13.9 10.9 16.3





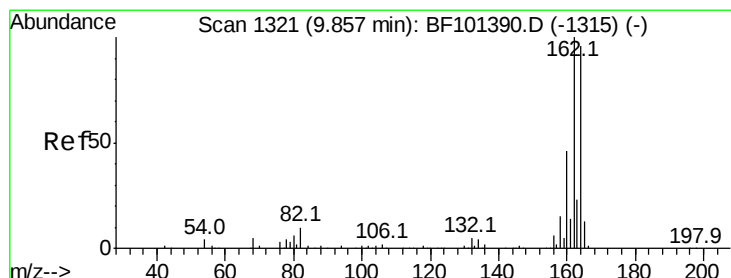
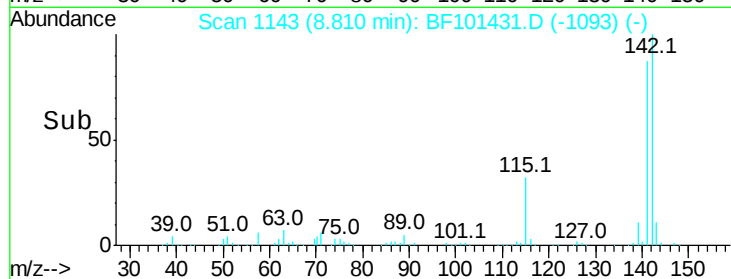
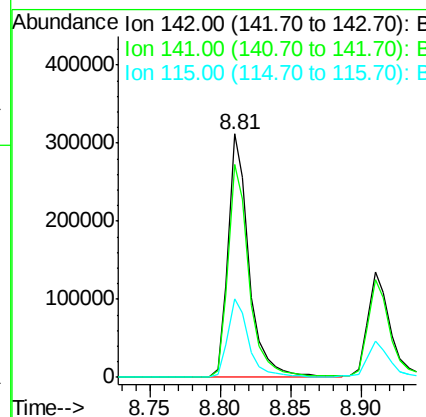
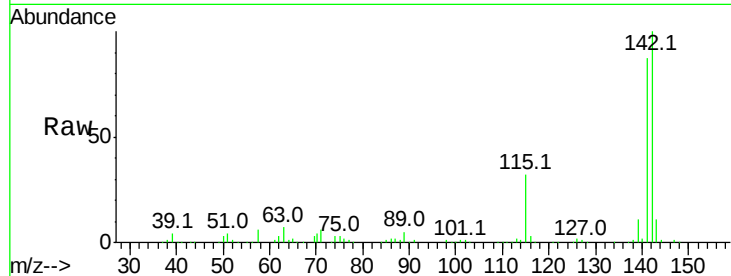
#37
2-Methylnaphthalene
Concen: 16.300 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Instrument :
BNA_F
ClientSampleId :
WC-4539-01DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.2	70.8	106.2
115	32.3	26.1	39.1

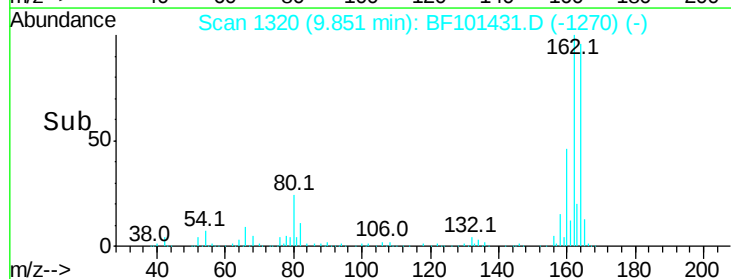
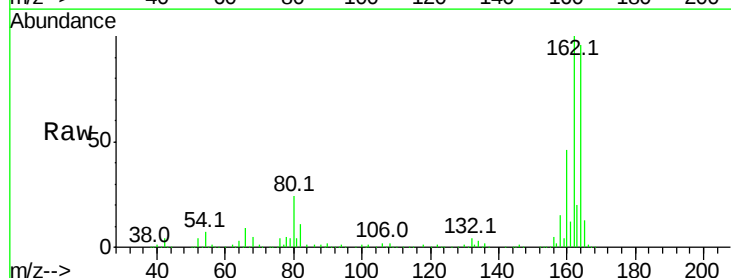
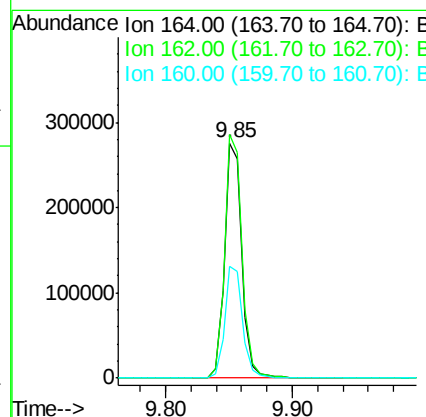
Manual Integrations
APPROVED

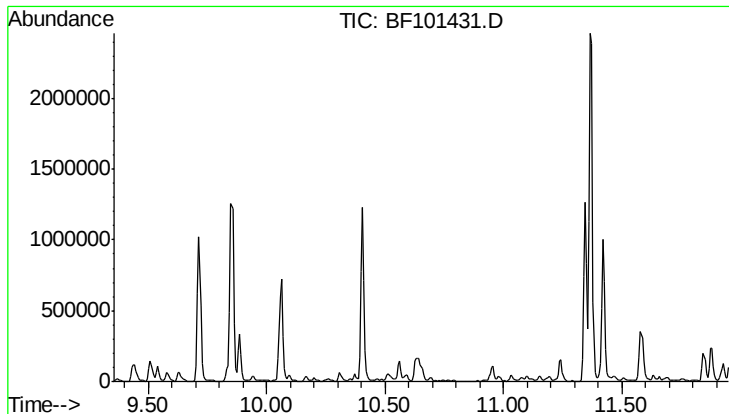
Sohil
12/15/2017 6:45:20 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	86.1	129.1
160	47.8	38.3	57.5





#41
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.65 min

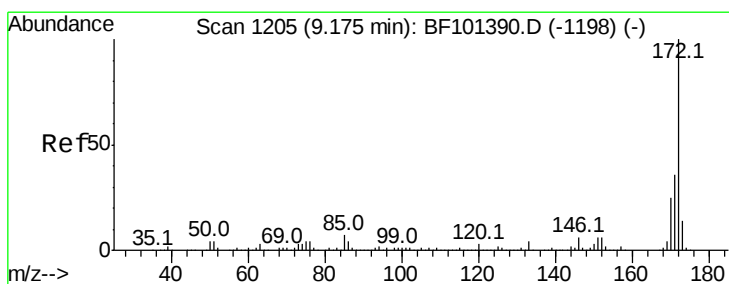
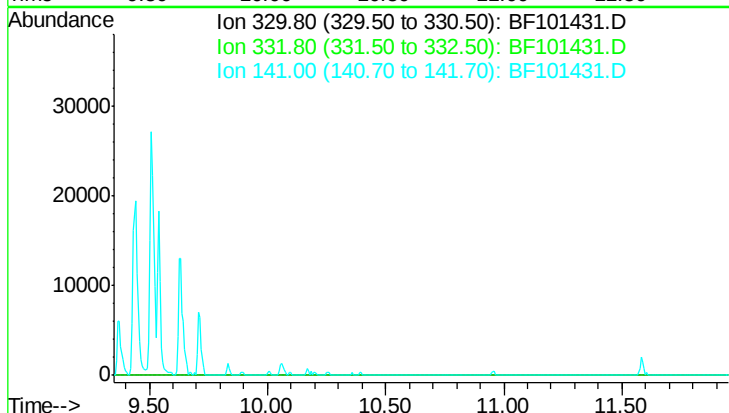
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Instrument :
BNA_F
ClientSampleId :
WC-4539-01DL

Tot Ion: 330
Sig Exp Ratio
330 100
332 96.3
141 37.4

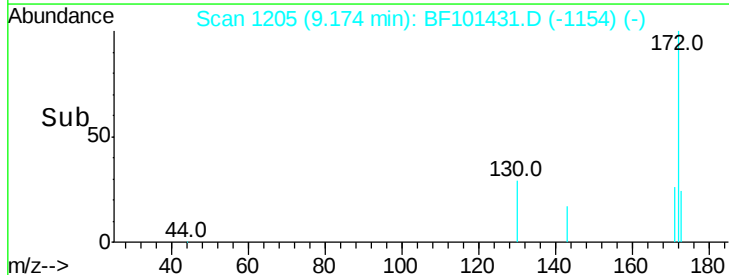
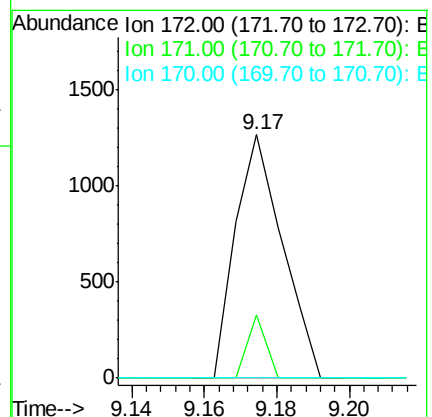
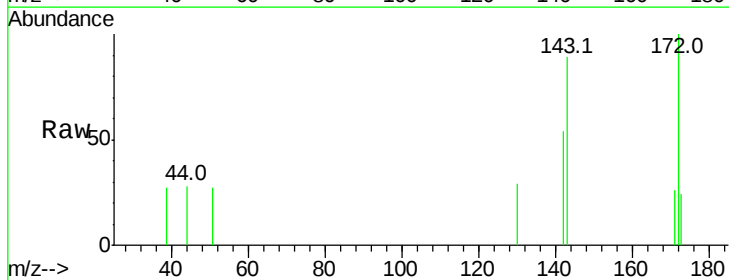
Manual Integrations
APPROVED

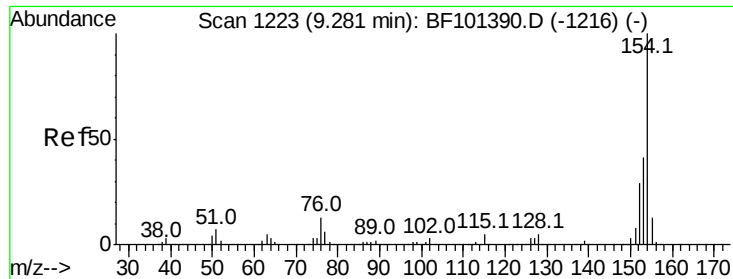
Sohil
12/15/2017 6:45:20 PM



#44
2-Fluorobiphenyl
Concen: 0.067 ng
RT: 9.17 min Scan# 1205
Delta R.T. -0.00 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Tgt Ion:172 Resp: 1137
Ion Ratio Lower Upper
172 100
171 26.0 29.7 44.5#
170 0.0 19.6 29.4#





#45

1,1'-Biphenyl

Concen: 3.553 ng

RT: 9.27 min Scan# 1222

Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Instrument :

BNA_F

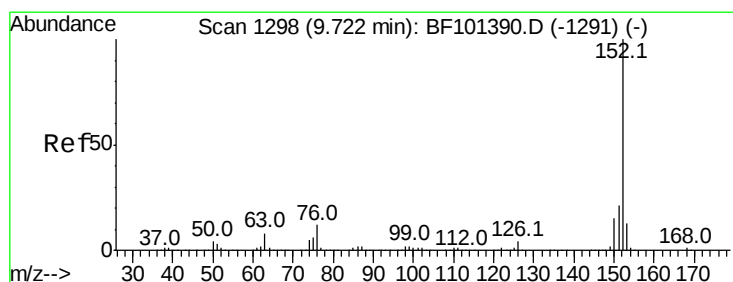
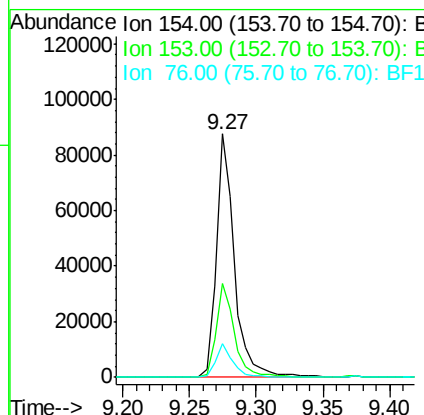
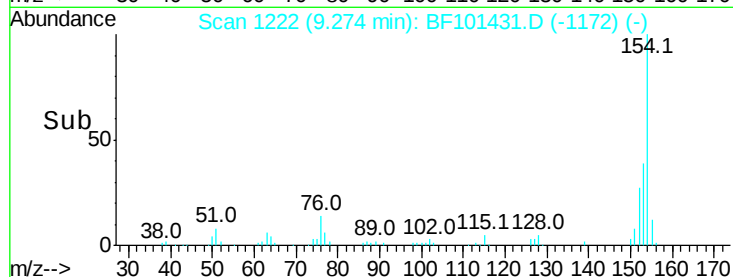
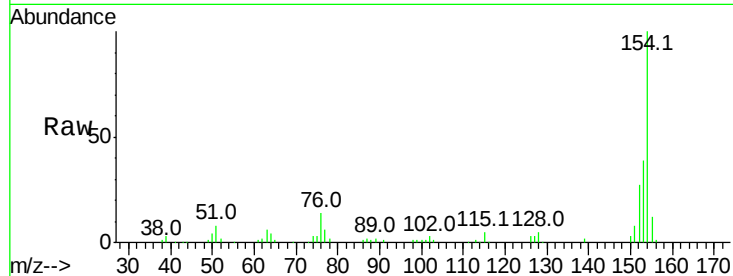
ClientSampleId :

WC-4539-01DL

Tot Ion:	154	Resp:	83485
Ion Ratio	Lower	Upper	
154	100		
153	38.7	21.3	61.3
76	14.0	0.0	34.0

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM



#48

Acenaphthylene

Concen: 14.448 ng

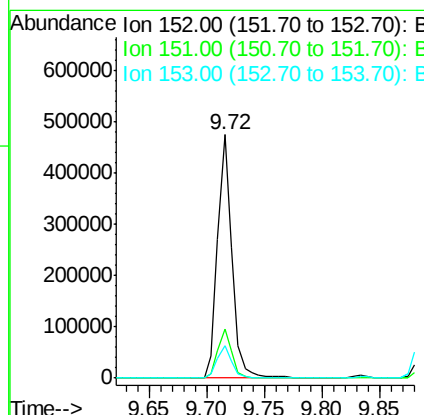
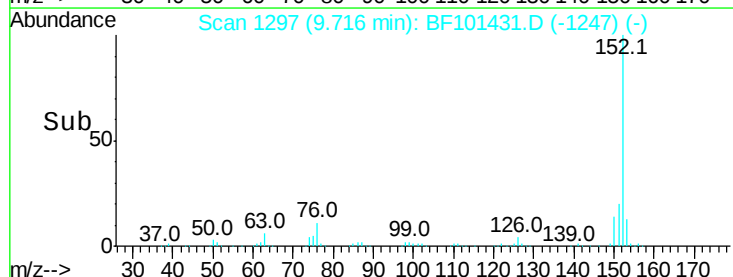
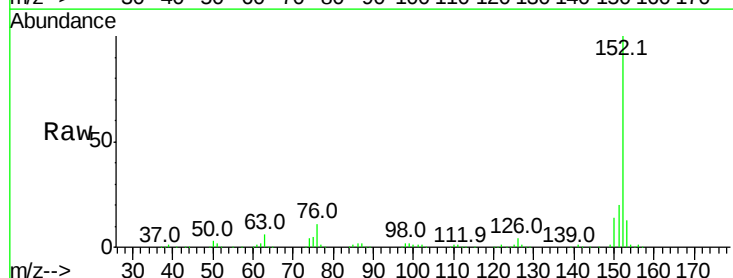
RT: 9.72 min Scan# 1297

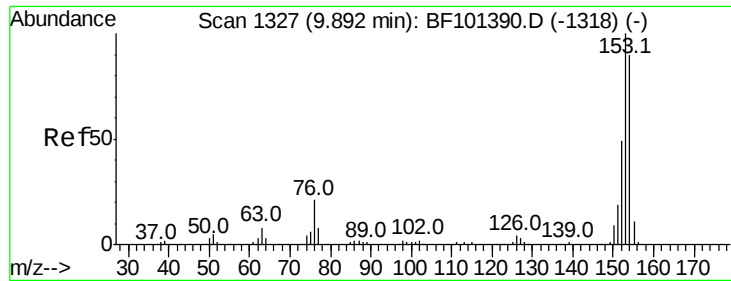
Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Tgt Ion:	152	Resp:	410270
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	13.1	10.7	16.1





#51

Acenaphthene

Concen: 3.713 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Instrument :

BNA_F

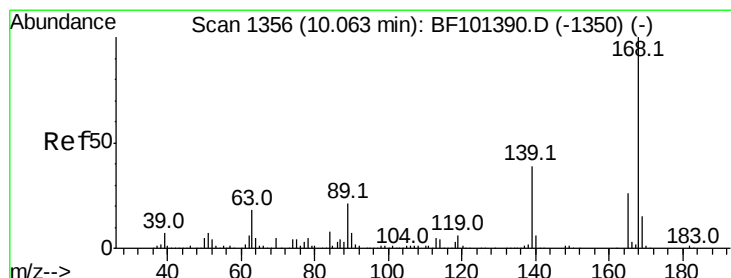
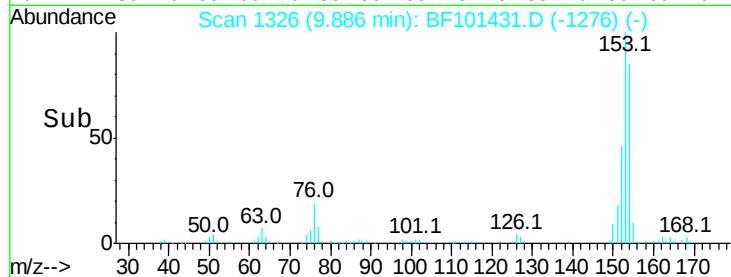
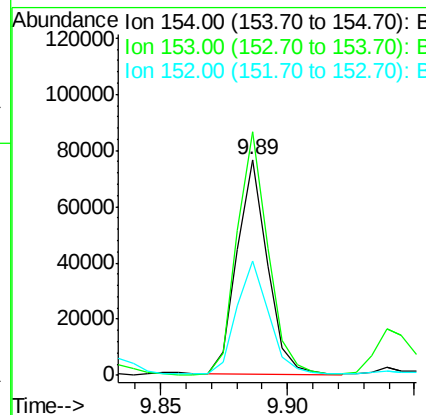
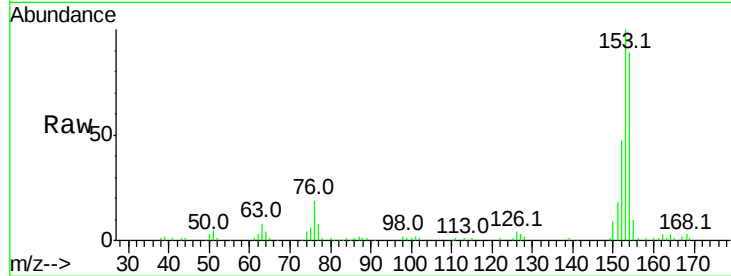
ClientSampleId :

WC-4539-01DL

Tot Ion:	154	Resp:	63338
Ion Ratio	Lower	Upper	
154	100		
153	112.8	91.2	136.8
152	53.1	43.8	65.8

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM



#54

Dibenzofuran

Concen: 13.732 ng

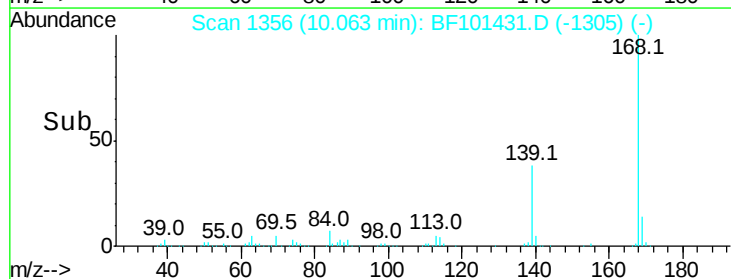
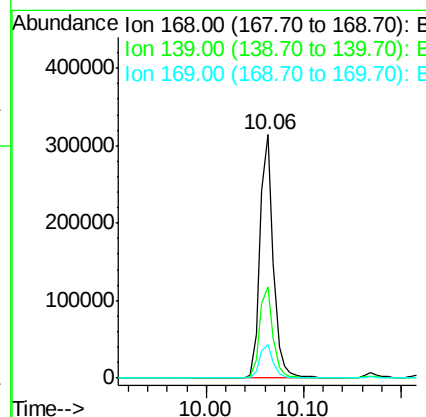
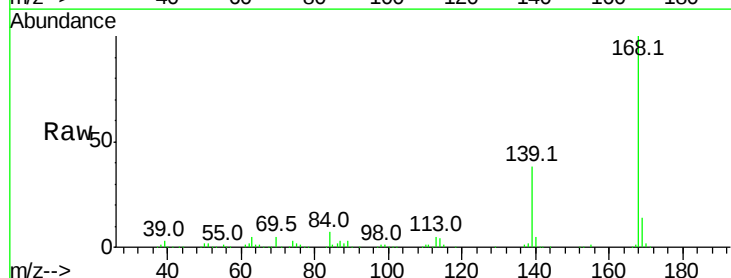
RT: 10.06 min Scan# 1356

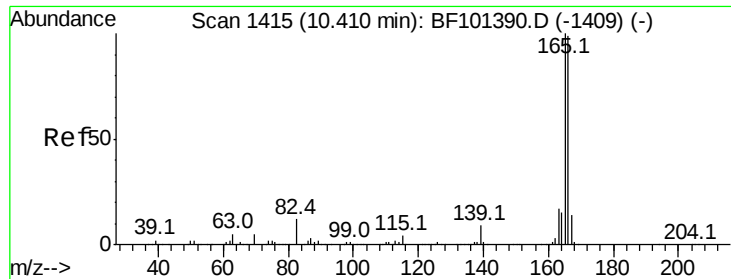
Delta R.T. -0.00 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Tgt Ion:	168	Resp:	297720
Ion Ratio	Lower	Upper	
168	100		
139	37.7	30.1	45.1
169	14.0	10.9	16.3





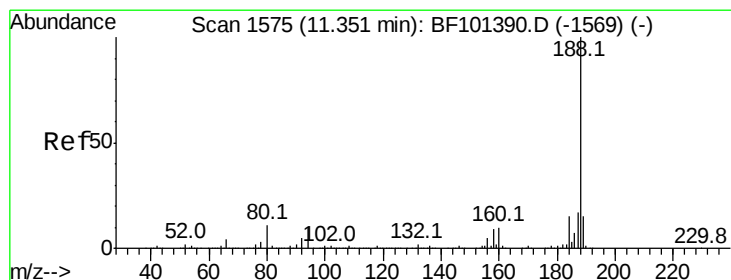
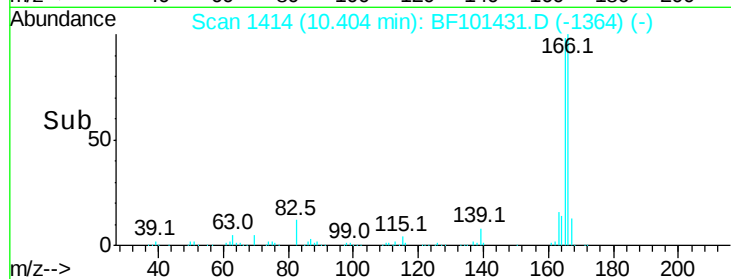
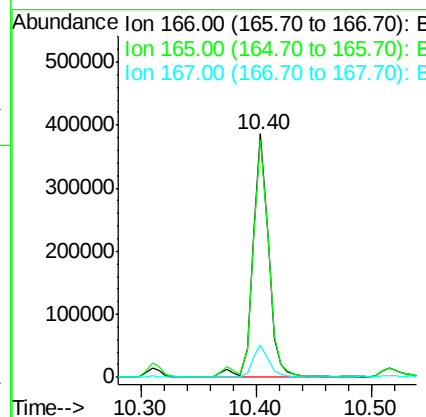
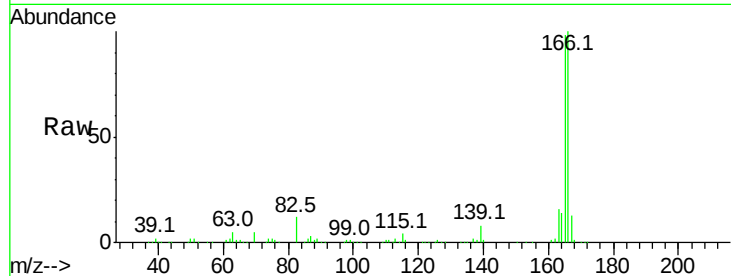
#57
Fluorene
 Concen: 19.746 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. -0.01 min
 Lab File: BF101431.D
 Acq: 15 Dec 2017 8:51

Instrument :
 BNA_F
 ClientSampleID :
 WC-4539-01DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	362156		
165	97.6	79.8	119.8	
167	13.3	10.6	16.0	

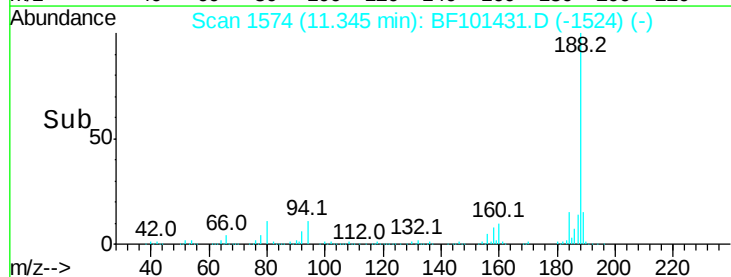
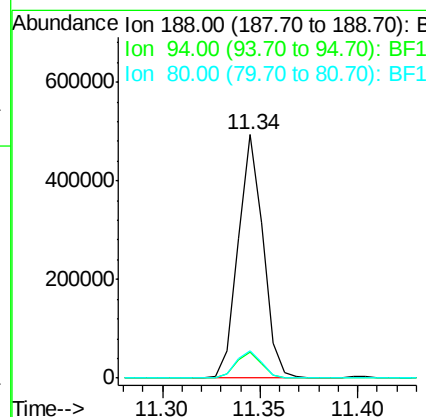
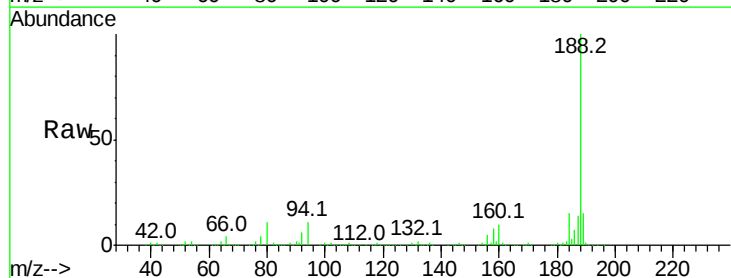
Manual Integrations
 APPROVED

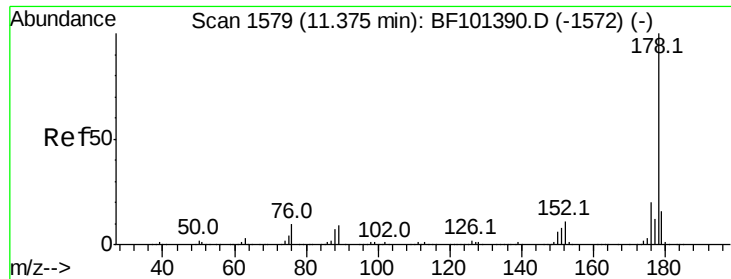
Sohil
 12/15/2017 6:45:20 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF101431.D
 Acq: 15 Dec 2017 8:51

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	438493		
94	10.7	8.5	12.7	
80	11.4	9.2	13.8	





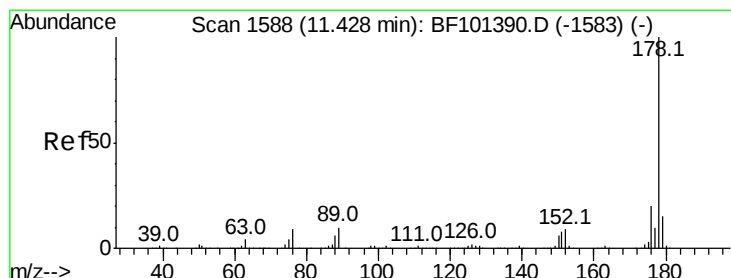
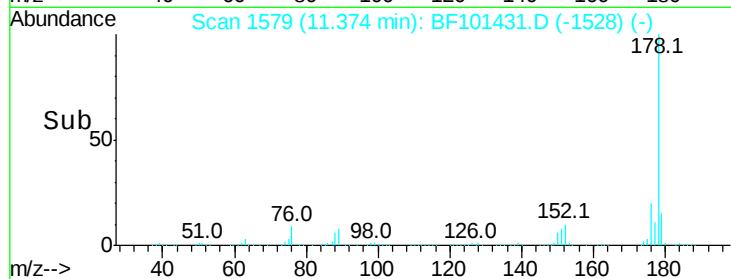
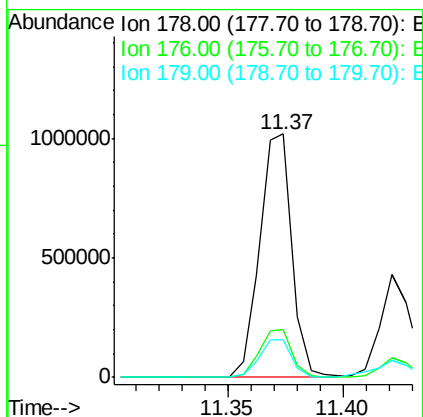
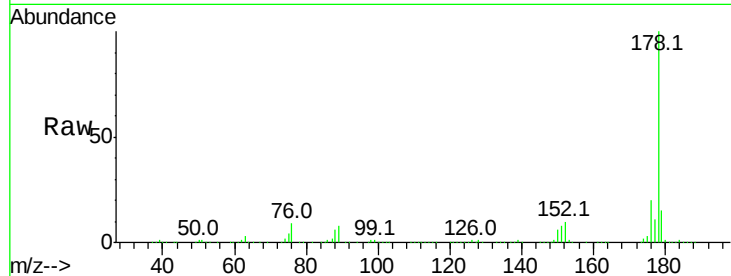
#70
Phenanthrene
Concen: 40.580 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.00 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Instrument :
BNA_F
ClientSampleID :
WC-4539-01DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.3	13.0	19.6

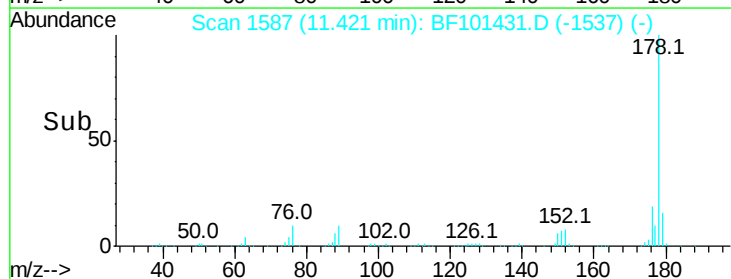
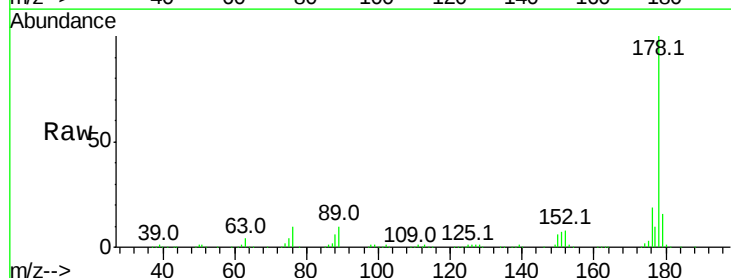
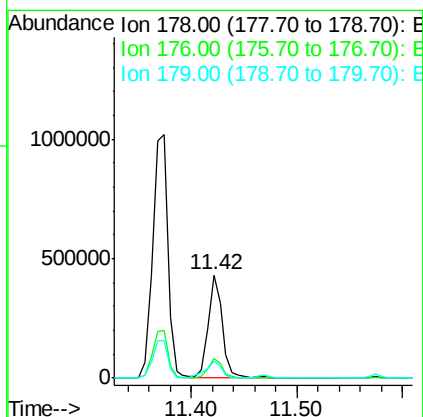
Manual Integrations
APPROVED

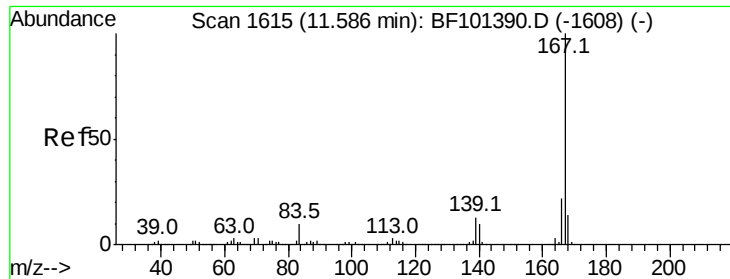
Sohil
12/15/2017 6:45:20 PM



#71
Anthracene
Concen: 16.375 ng
RT: 11.42 min Scan# 1587
Delta R.T. -0.01 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	16.2	12.6	19.0





#72

Carbazole

Concen: 6.271 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Instrument :

BNA_F

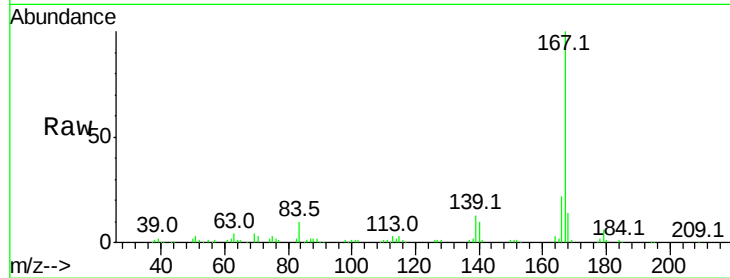
ClientSampleId :

WC-4539-01DL

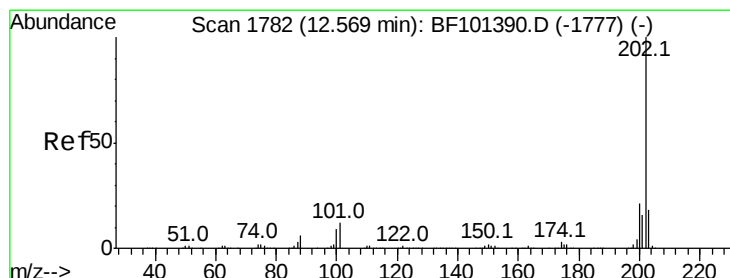
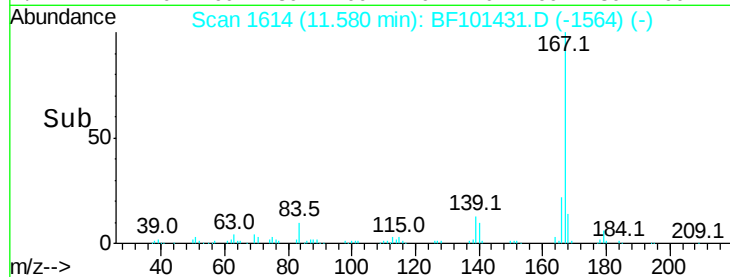
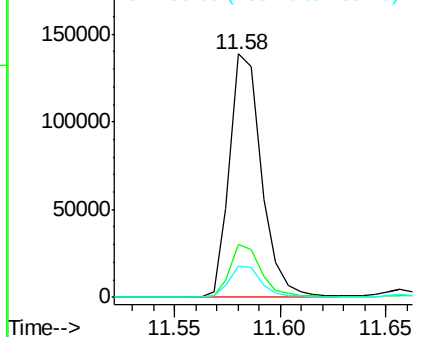
Tot Ion:	167	Resp:	146243
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.6	26.4
139	12.6	10.9	16.3

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM



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



#74

Fluoranthene

Concen: 23.728 ng

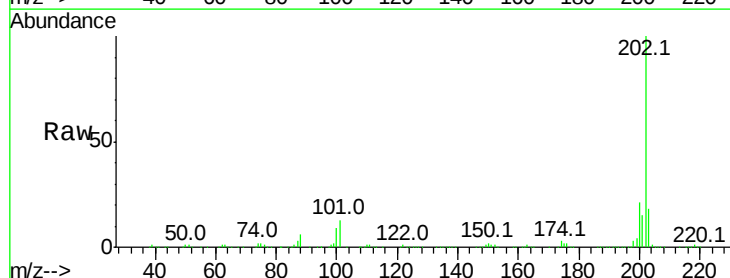
RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

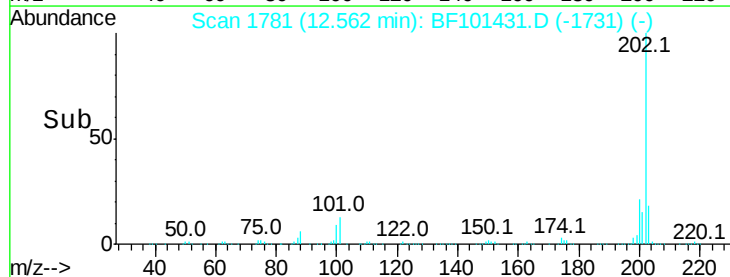
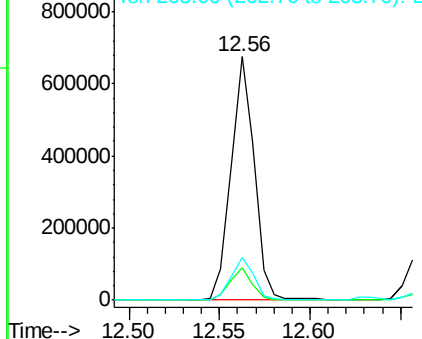
Lab File: BF101431.D

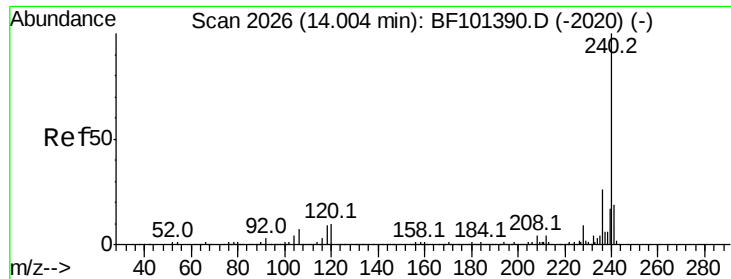
Acq: 15 Dec 2017 8:51

Tgt Ion:	202	Resp:	607325
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	34.1
203	17.7	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Instrument :

BNA_F

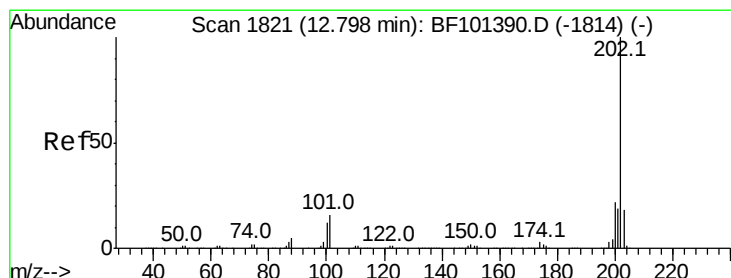
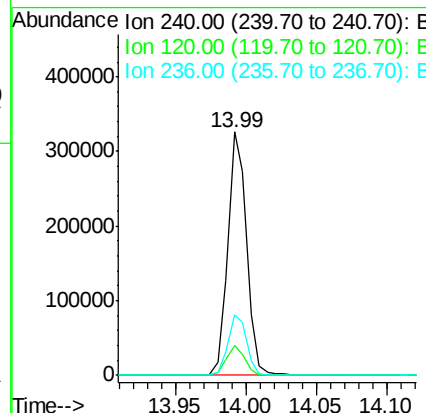
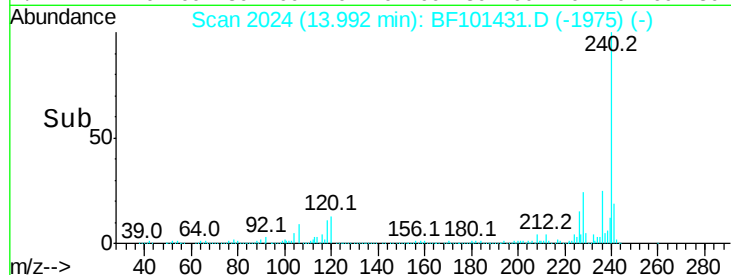
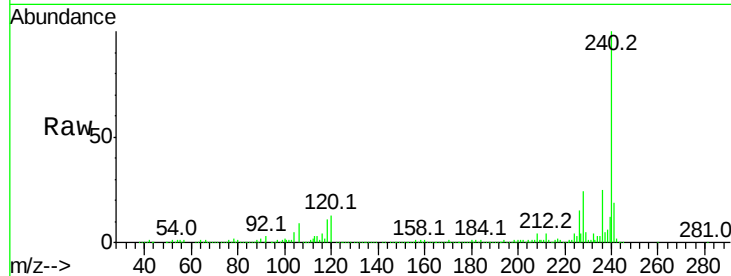
ClientSampleId :

WC-4539-01DL

Tot Ion:	240	Resp:	300131
Ion Ratio	Lower	Upper	
240	100		
120	12.5	9.5	14.3
236	24.7	20.7	31.1

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM



#77

Pyrene

Concen: 20.006 ng

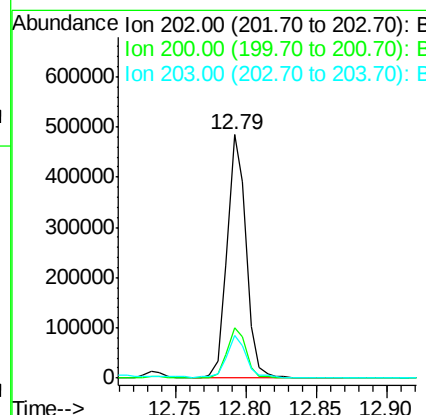
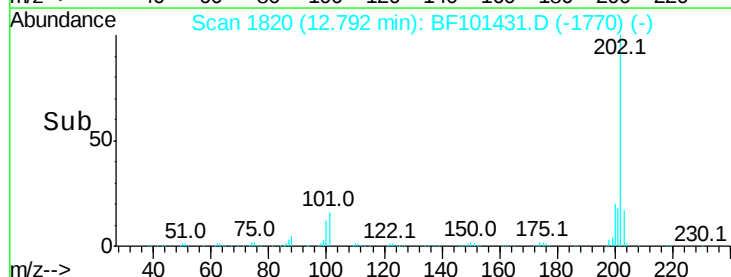
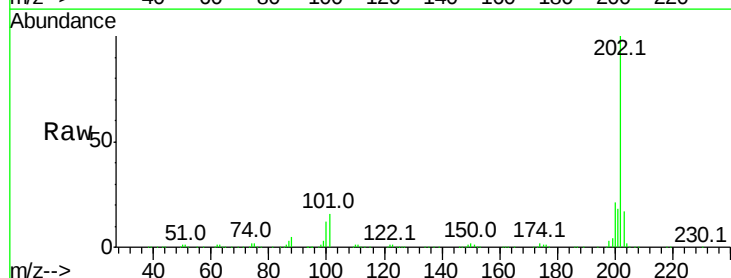
RT: 12.79 min Scan# 1820

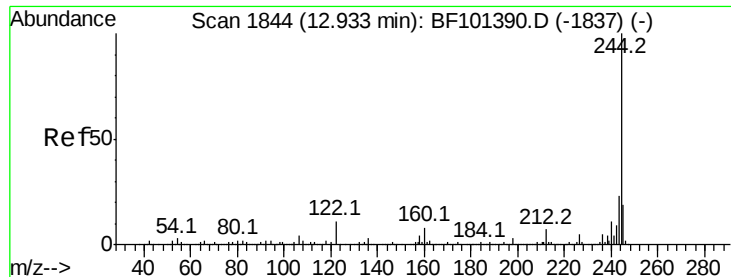
Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Tgt Ion:	202	Resp:	450640
Ion Ratio	Lower	Upper	
202	100		
200	20.5	17.4	26.2
203	17.4	14.3	21.5





#78

Terphenyl-d14

Concen: 0.104 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Instrument :

BNA_F

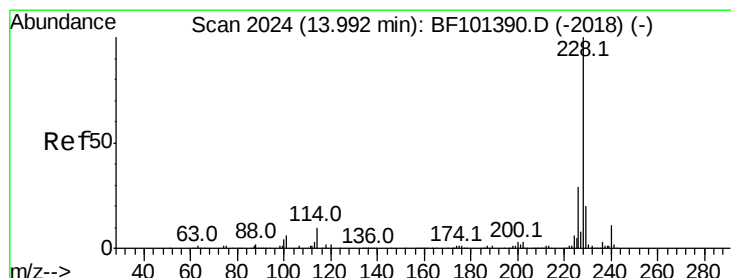
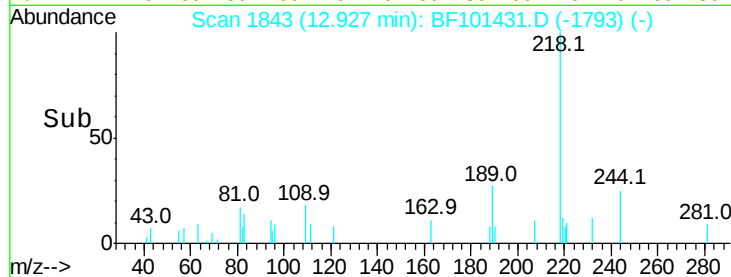
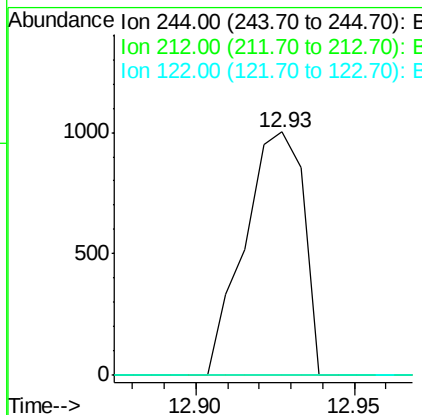
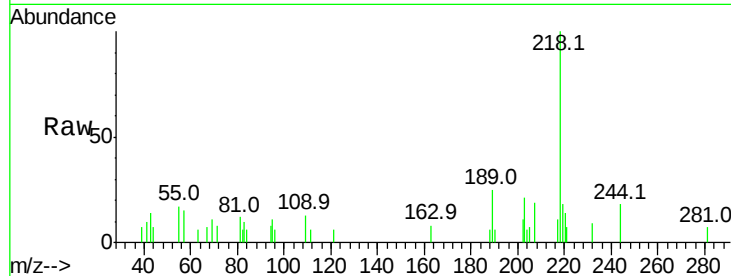
ClientSampleID :

WC-4539-01DL

Tot Ion:	244	Resp:	1291
Ion Ratio	Lower	Upper	
244	100		
212	0.0	5.4	8.0#
122	0.0	11.0	16.4#

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM



#80

Benzo(a)anthracene

Concen: 10.576 ng m

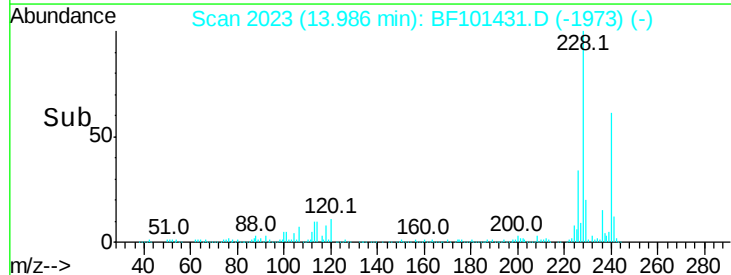
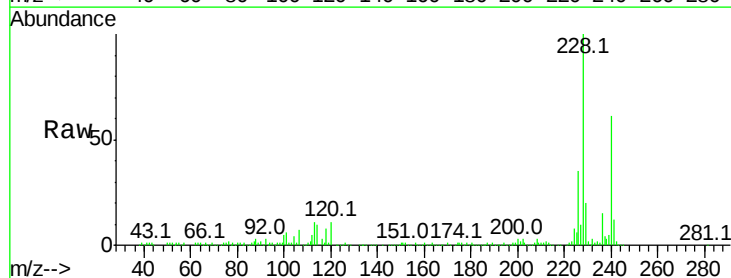
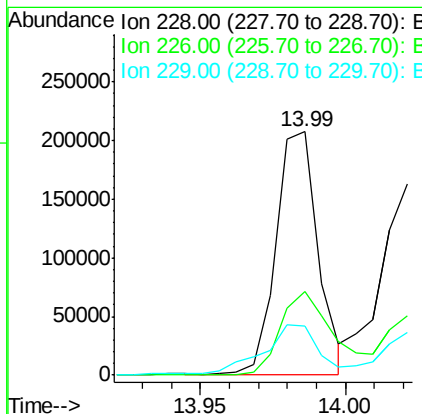
RT: 13.99 min Scan# 2023

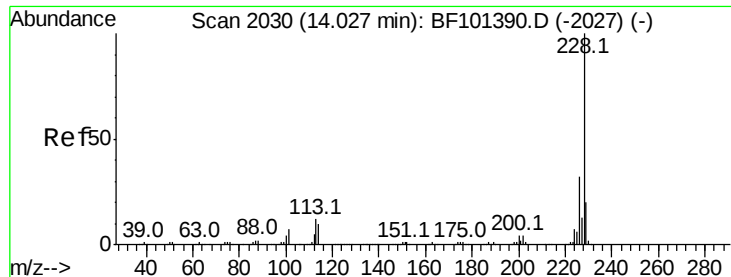
Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Tgt Ion:	228	Resp:	209600
Ion Ratio	Lower	Upper	
228	100		
226	34.6	22.6	33.8#
229	20.1	15.8	23.6





#82

Chrysene

Concen: 8.973 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Instrument :

BNA_F

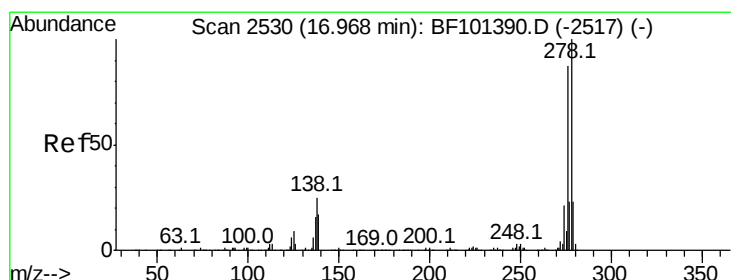
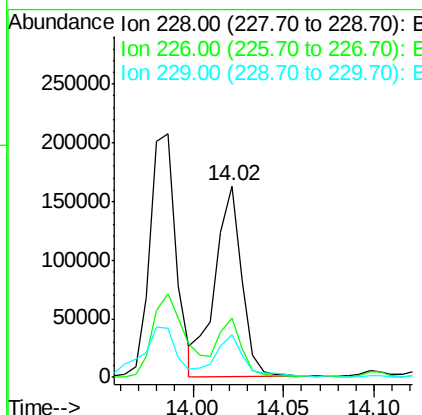
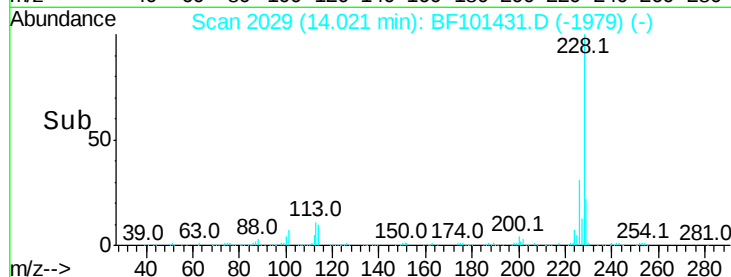
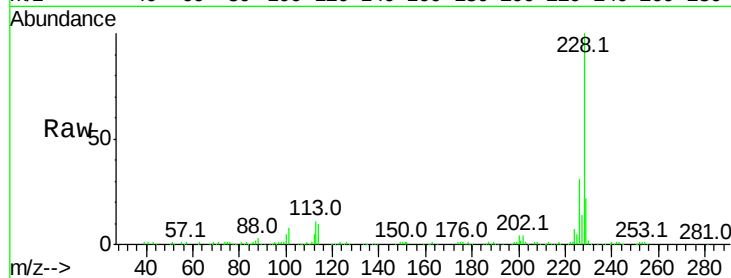
ClientSampleId :

WC-4539-01DL

Tot Ion:	228	Resp:	167895
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.6
229	22.2	16.2	24.4

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:20 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.390 ng

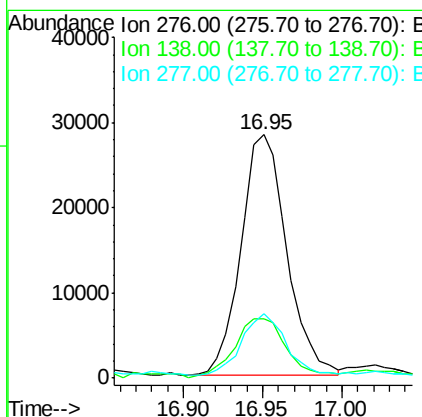
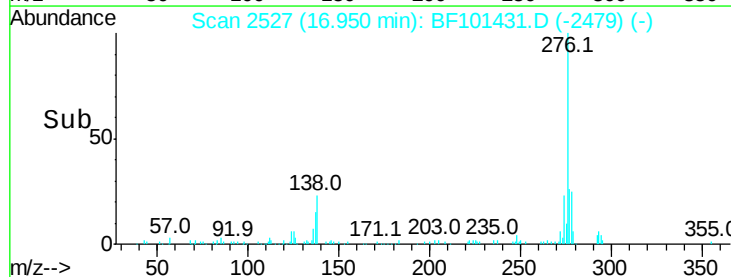
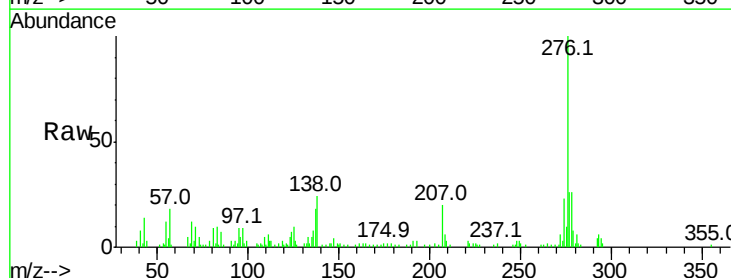
RT: 16.95 min Scan# 2527

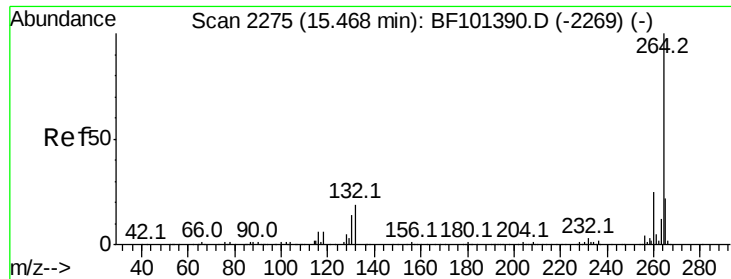
Delta R.T. -0.02 min

Lab File: BF101431.D

Acq: 15 Dec 2017 8:51

Tgt Ion:	276	Resp:	56488
Ion Ratio	Lower	Upper	
276	100		
138	28.7	25.0	37.6
277	25.0	20.1	30.1





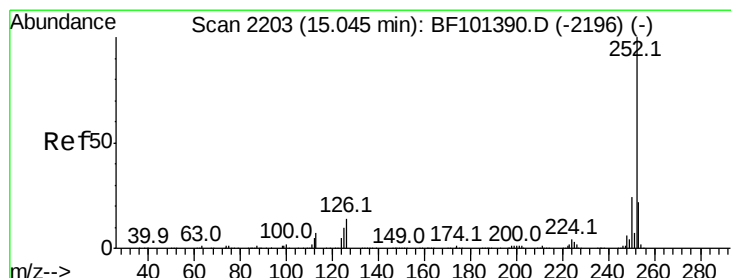
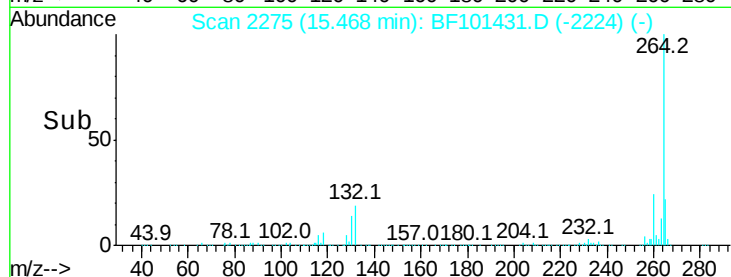
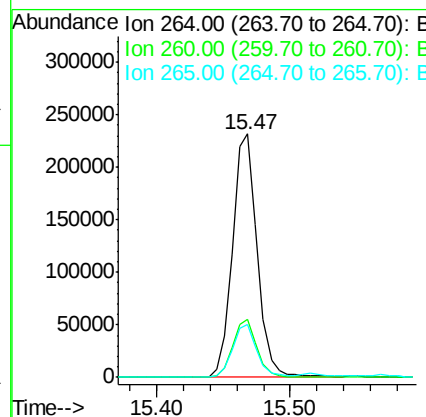
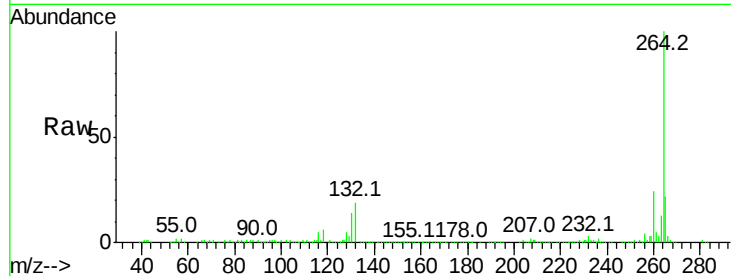
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. -0.00 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Instrument :
BNA_F
ClientSampleId :
WC-4539-01DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	21.9	17.5	26.3

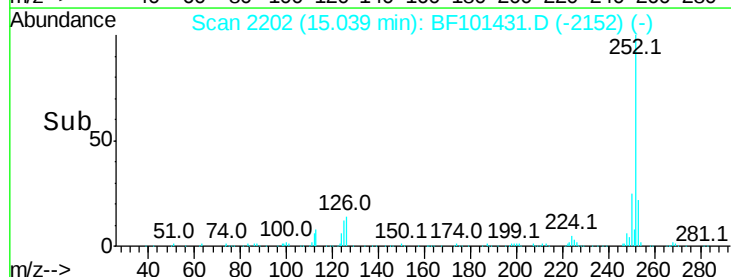
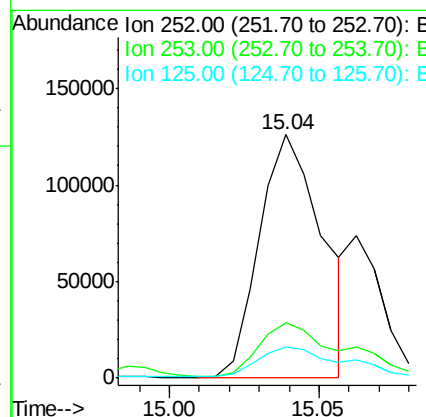
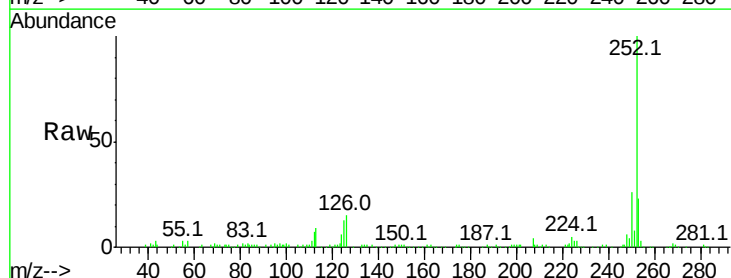
Manual Integrations
APPROVED

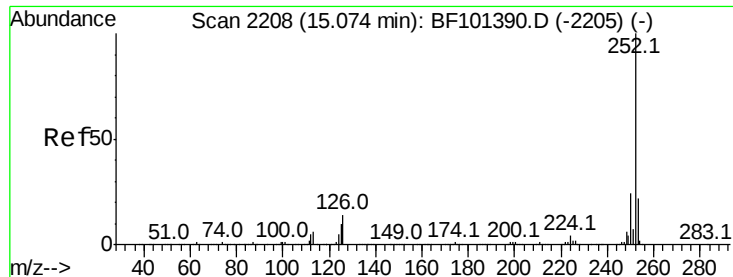
Sohil
12/15/2017 6:45:20 PM



#87
Benzo(b)fluoranthene
Concen: 10.076 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	12.7	9.0	13.6





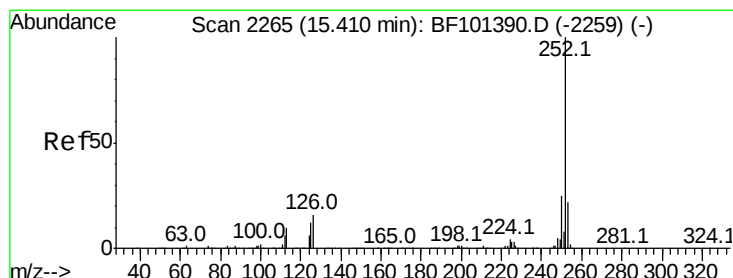
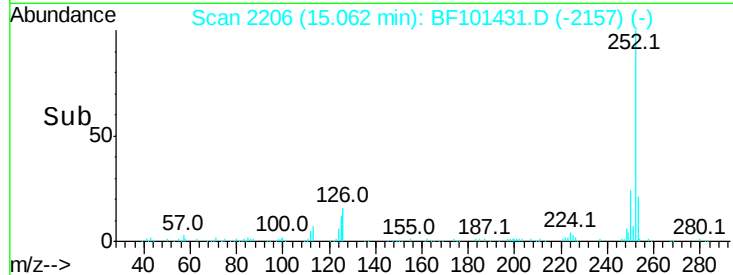
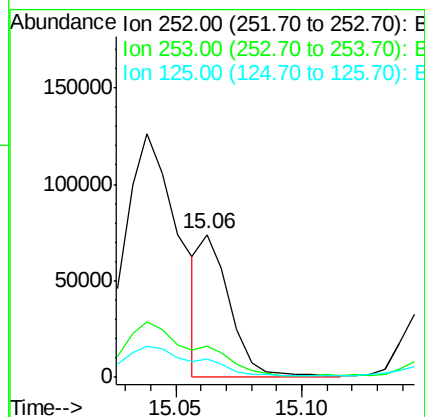
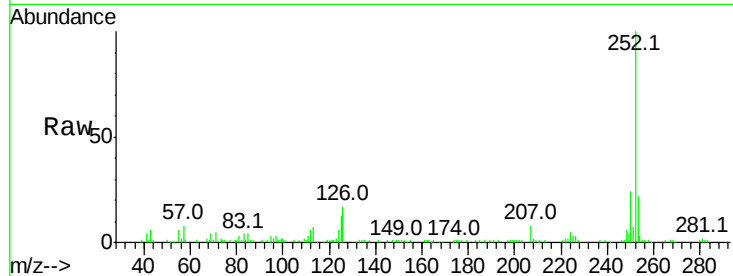
#88
Benzo(k)fluoranthene
Concen: 3.403 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Instrument :
BNA_F
ClientSampleId :
WC-4539-01DL

Tot Ion:252	Resp:	60764
Ion Ratio	Lower	Upper
252	100	
253	22.2	17.9 26.9
125	13.2	10.2 15.2

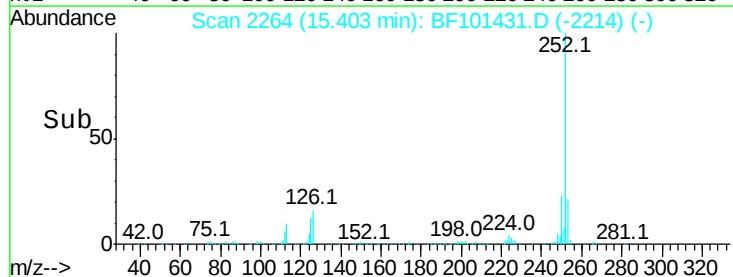
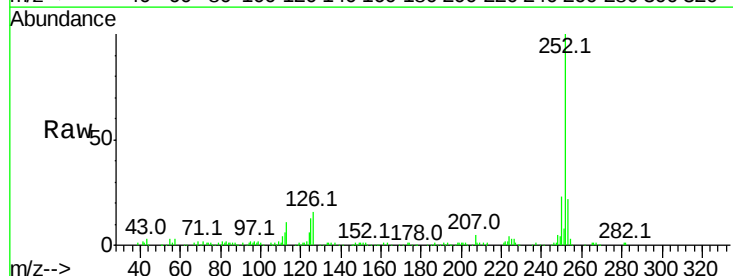
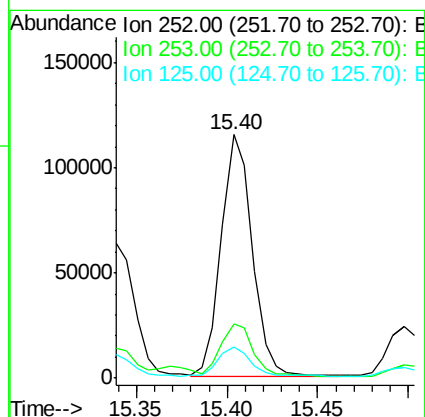
Manual Integrations
APPROVED

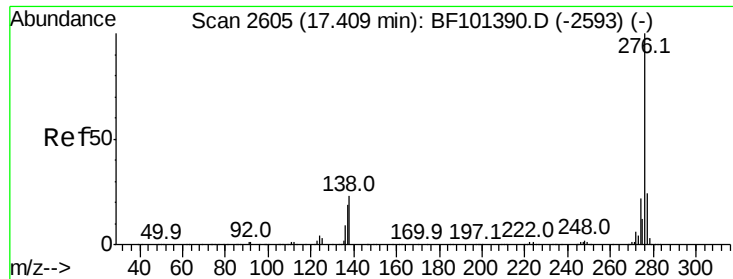
Sohil
12/15/2017 6:45:20 PM



#89
Benzo(a)pyrene
Concen: 8.205 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101431.D
Acq: 15 Dec 2017 8:51

Tgt Ion:252	Resp:	138905
Ion Ratio	Lower	Upper
252	100	
253	22.2	17.1 25.7
125	12.6	9.8 14.6





#91
 Benzo(a,h,i)perylene
 Concen: 3.336 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. -0.01 min
 Lab File: BF101431.D
 Acq: 15 Dec 2017 8:51

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-01DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	22.4	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:45:20 PM

