

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042216\
 Data File : BF086398.D
 Acq On : 23 Apr 2016 18:56
 Operator : UM/SJ
 Sample : H2640-25
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WPG-B4(0-13)-C

Manual Integrations
 APPROVED

sohil
 4/25/2016 12:36:05 PM

Quant Time: Apr 25 06:08:31 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Apr 23 00:24:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	190842	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	727955	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	294909	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	483054	20.00	ng	-0.01
75) Chrysene-d12	14.00	240	344043	20.00	ng	0.00
86) Perylene-d12	15.41	264	262176	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	1393432	126.09	ng	0.02
7) Phenol-d6	6.49	99	2021259	134.54	ng	0.01
23) Nitrobenzene-d5	7.41	82	1259985	102.53	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	322988	120.99	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	1757926	101.72	ng	0.00
78) Terphenyl-d14	12.95	244	1122799	81.09	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.60	163	270451	12.69	ng	100
51) Acenaphthene	9.90	154	92807	5.15	ng	97
54) Dibenzofuran	10.09	168	90867	3.92	ng	94
57) Fluorene	10.42	166	111481	5.87	ng	# 98
70) Phenanthrene	11.39	178	817074	33.66	ng	99
71) Anthracene	11.44	178	350948	12.62	ng	99
72) Carbazole	11.60	167	59279	2.27	ng	96
74) Fluoranthene	12.59	202	1102695	42.13	ng	94
77) Pyrene	12.81	202	964103	40.18	ng	99
80) Benzo(a)anthracene	13.99	228	463245	25.94	ng	97
82) Chrysene	14.02	228	332642	16.53	ng	97
83) Bis(2-ethylhexyl)phthalate	14.02	149	39400	3.15	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.80	276	144050	8.05	ng	94
87) Benzo(b)fluoranthene	15.01	252	353556m	24.57	ng	
88) Benzo(k)fluoranthene	15.04	252	153030m	10.83	ng	
89) Benzo(a)pyrene	15.36	252	272426	19.19	ng	# 94
90) Dibenzo(a,h)anthracene	16.81	278	26846	2.29	ng	# 77
91) Benzo(g,h,i)perylene	17.21	276	132601	10.97	ng	97

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

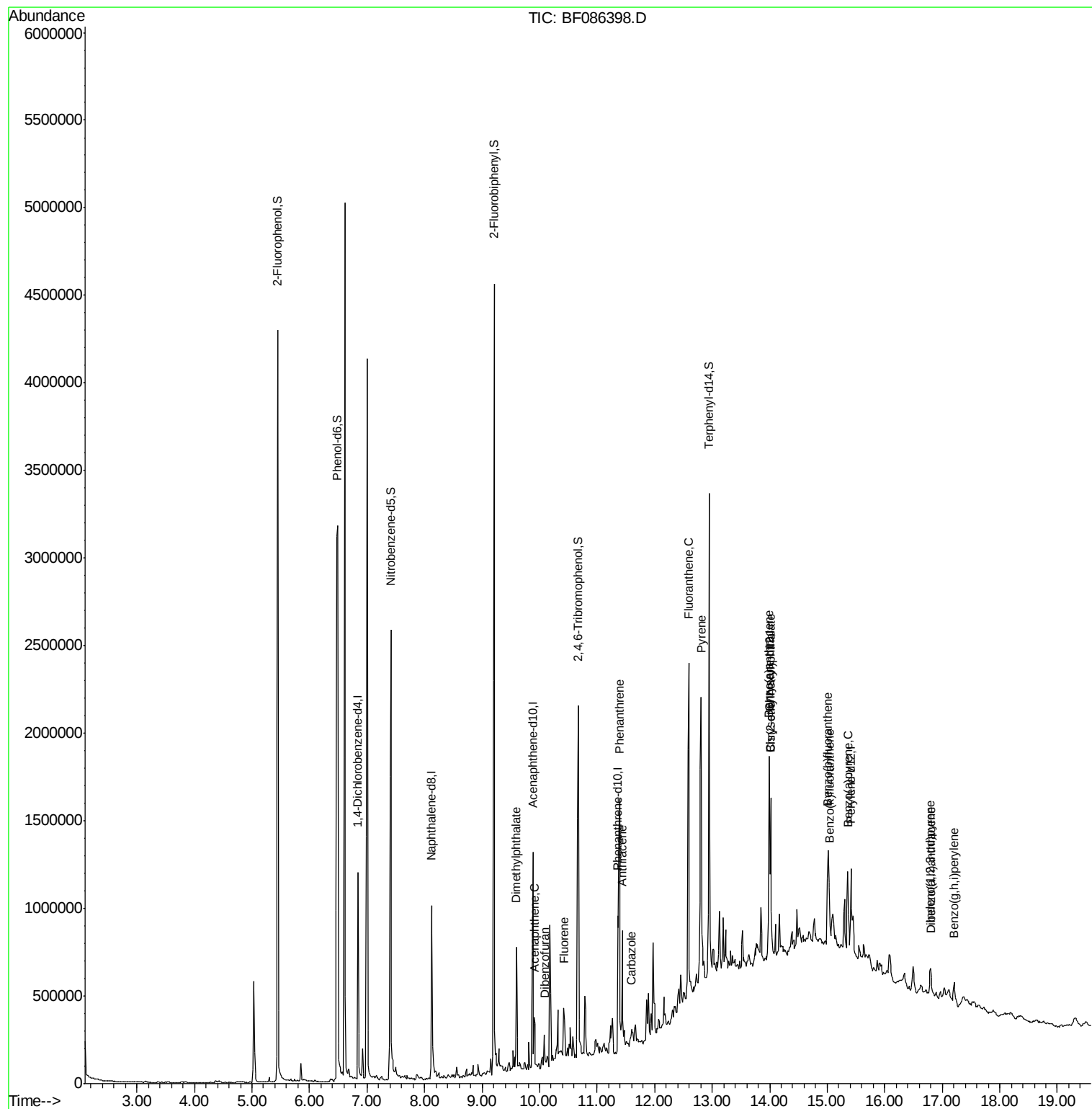
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042216\
Data File : BF086398.D
Acq On : 23 Apr 2016 18:56
Operator : UM/SJ
Sample : H2640-25
Misc :
ALS Vial : 42 Sample Multiplier: 1

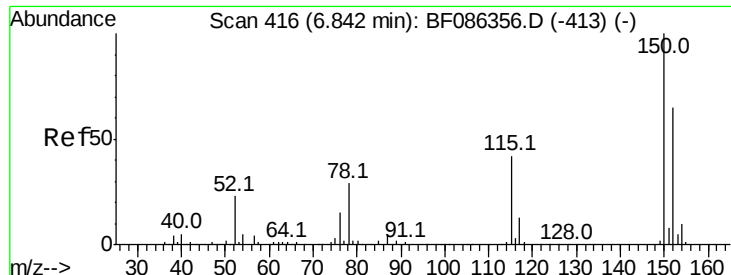
Instrument :
BNA_F
ClientSampleId :
WPG-B4(0-13)-C

Manual Integrations
APPROVED

sohil
4/25/2016 12:36:05 PM

Quant Time: Apr 25 06:08:31 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Apr 23 00:24:02 2016
Response via : Initial Calibration





#1

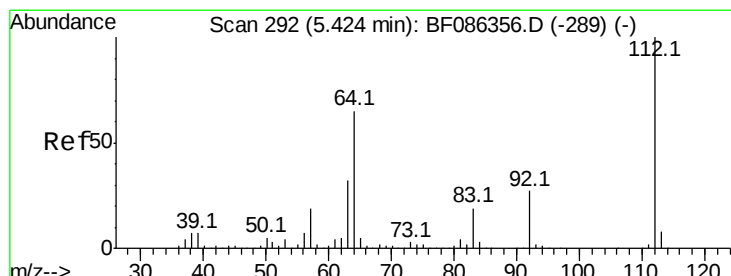
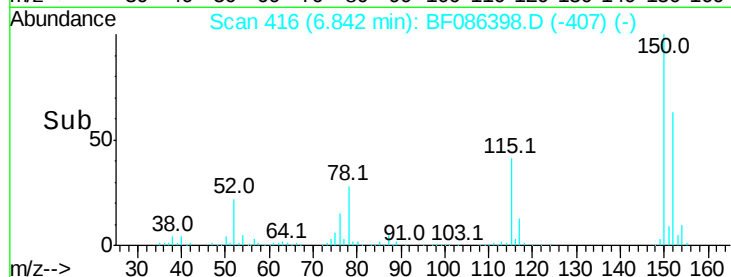
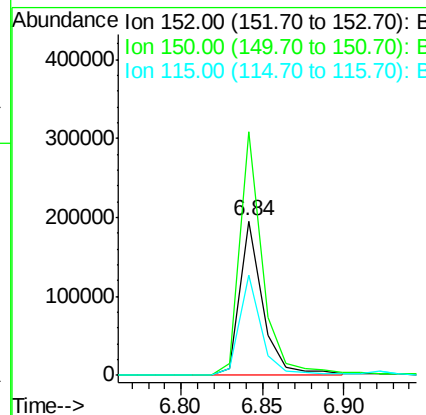
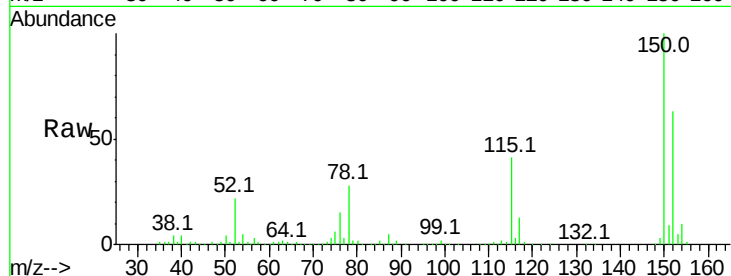
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.84 min Scan# 416
Delta R.T. -0.00 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Instrument :
BNA_F
ClientSampleId :
WPG-B4(0-13)-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.8	188.6
115	64.6	51.5	77.3

Manual Integrations
APPROVED

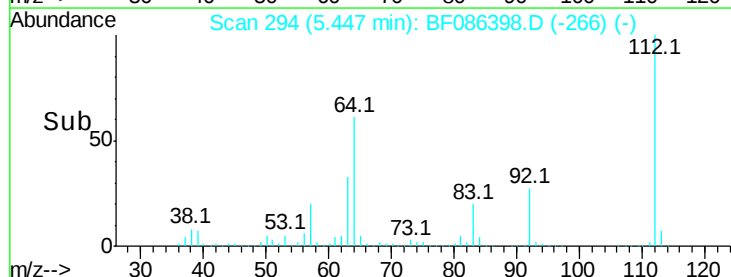
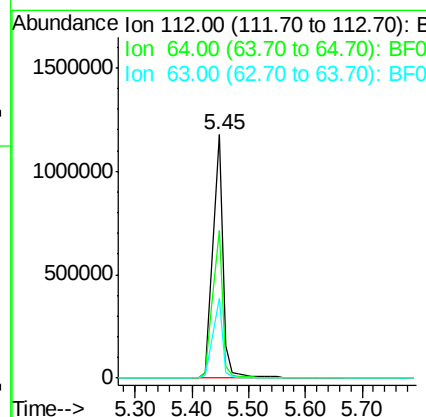
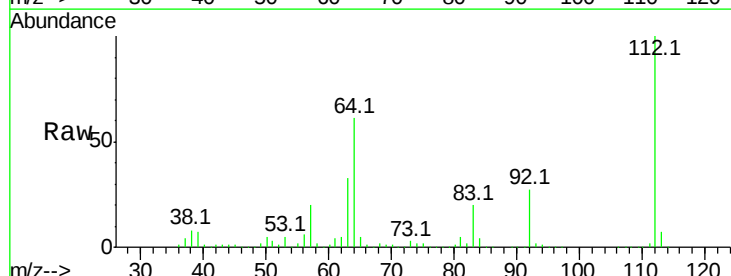
sohil
4/25/2016 12:36:05 PM

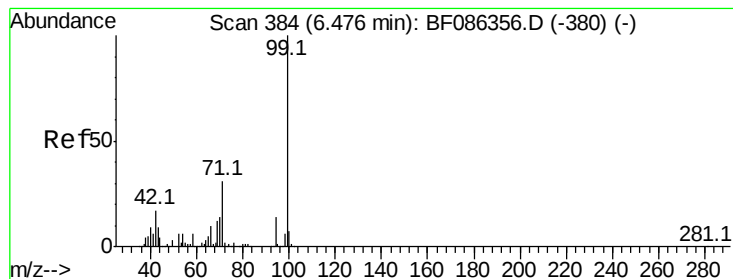


#5

2-Fluorophenol
Concen: 126.09 ng
RT: 5.45 min Scan# 294
Delta R.T. 0.02 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.9	52.1	78.1
63	32.7	25.7	38.5





#7

Phenol-d6

Concen: 134.54 ng

RT: 6.49 min Scan# 385

Delta R.T. 0.01 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

Instrument :

BNA_F

ClientSampleId :

WPG-B4(0-13)-C

Tot Ion: 99 Resp: 2021259

Ion Ratio Lower Upper

99 100

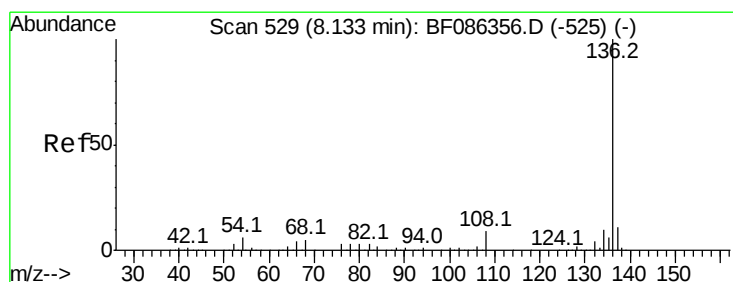
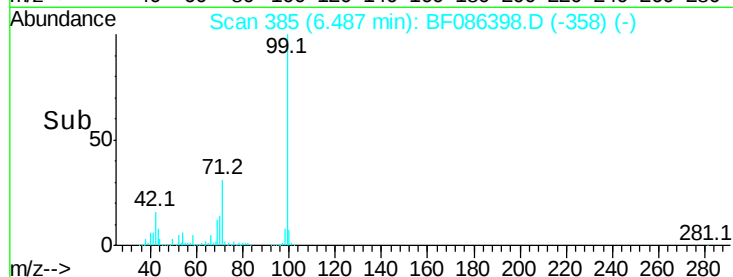
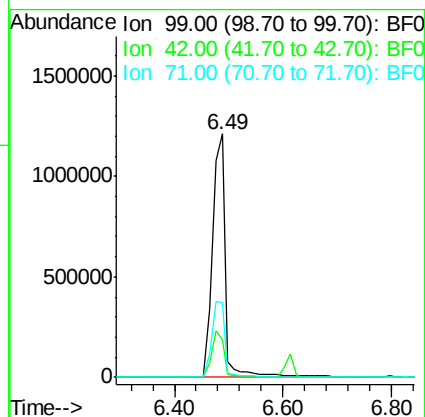
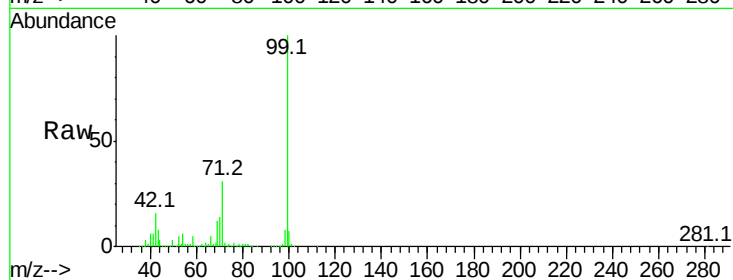
42 15.6 13.6 20.4

71 30.6 24.6 36.8

Manual Integrations
APPROVED

sohil

4/25/2016 12:36:05 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.01 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

Tgt Ion: 136 Resp: 727955

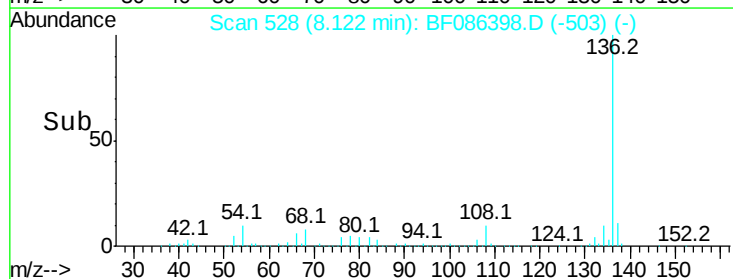
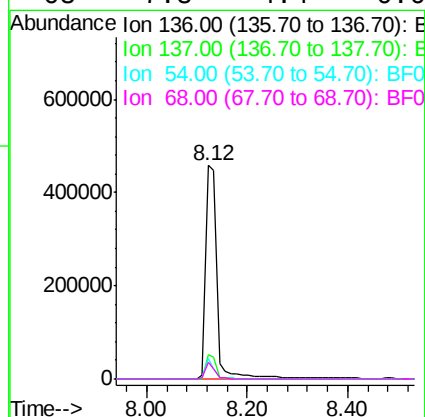
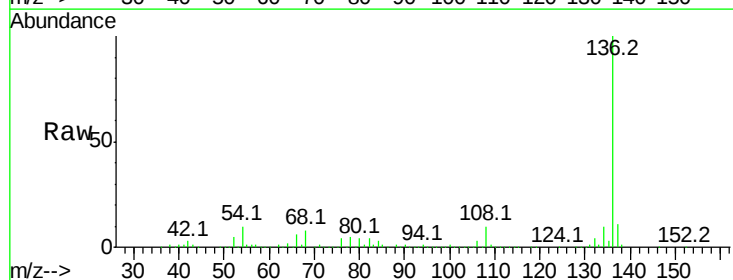
Ion Ratio Lower Upper

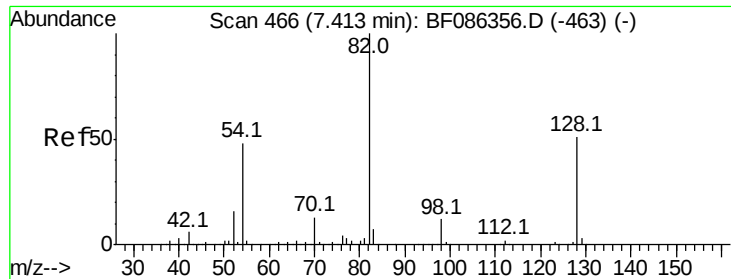
136 100

137 11.4 8.8 13.2

54 9.8 5.0 7.4#

68 7.8 4.4 6.6#





#23

Nitrobenzene-d5

Concen: 102.53 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.00 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

Instrument :

BNA_F

ClientSampleId :

WPG-B4(0-13)-C

Tot Ion: 82 Resp: 1259985

Ion Ratio Lower Upper

82 100

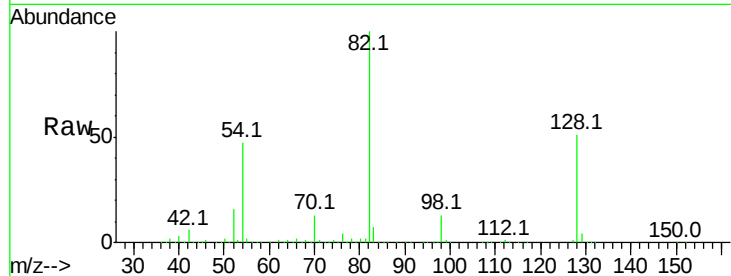
128 51.1 40.6 61.0

54 46.6 38.1 57.1

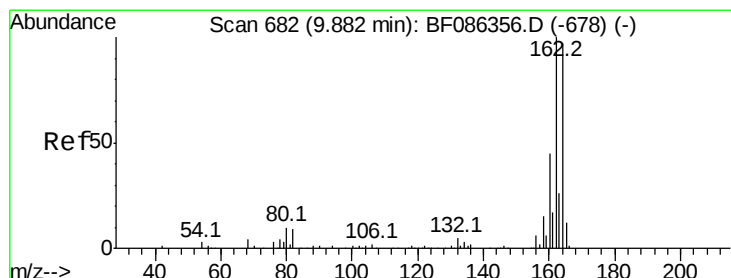
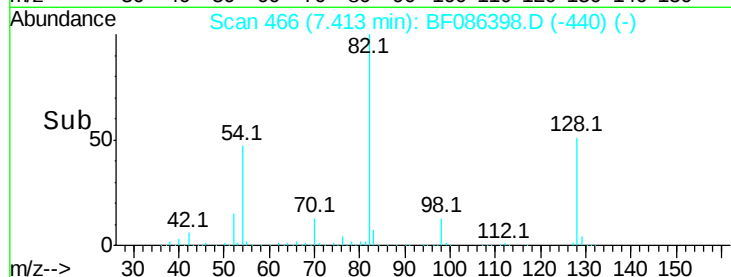
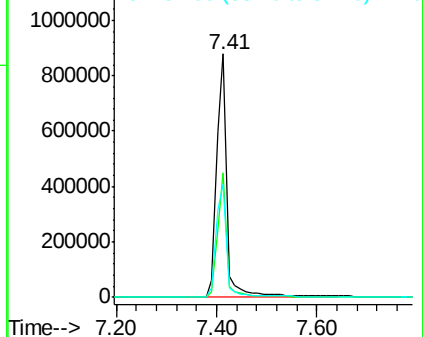
Manual Integrations
APPROVED

sohil

4/25/2016 12:36:05 PM



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.00 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

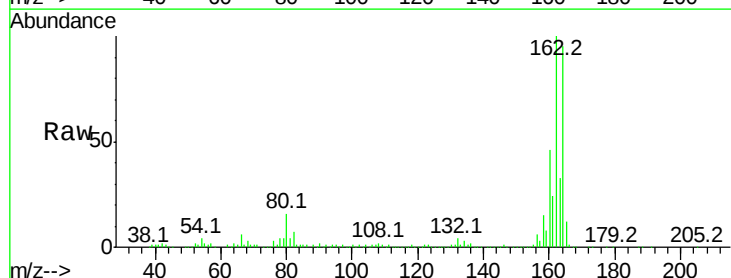
Tgt Ion:164 Resp: 294909

Ion Ratio Lower Upper

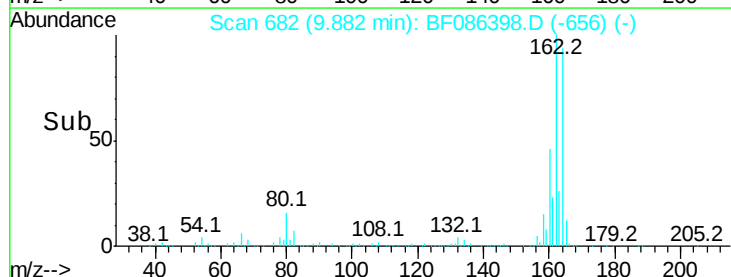
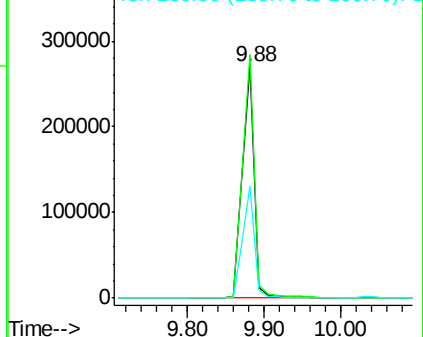
164 100

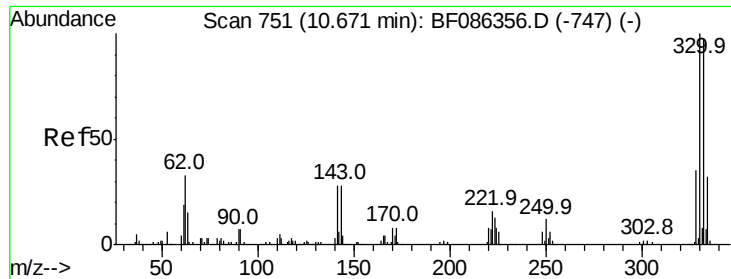
162 105.2 82.8 124.2

160 48.3 36.9 55.3



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





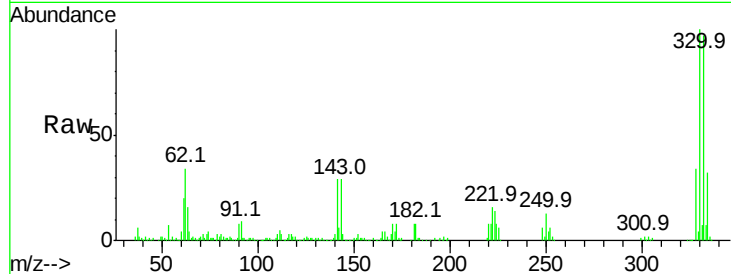
#41
 2,4,6-Tribromophenol
 Concen: 120.99 ng
 RT: 10.67 min Scan# 751
 Delta R.T. -0.00 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Instrument :
 BNA_F
 ClientSampleId :
 WPG-B4(0-13)-C

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.2	79.0	118.4	
141	38.6	31.2	46.8	

Manual Integrations
 APPROVED

sohil
 4/25/2016 12:36:05 PM

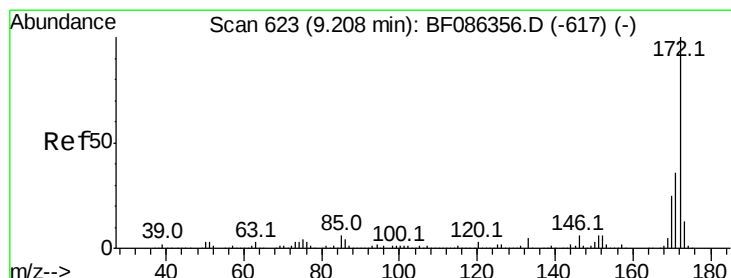
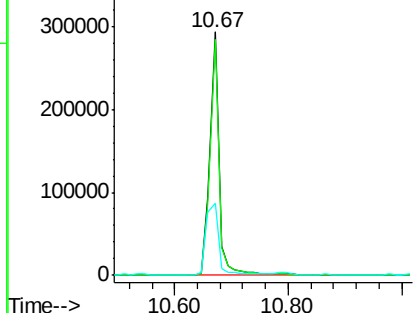
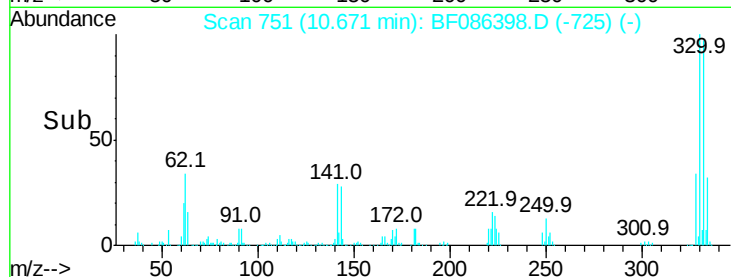


Abundance

Ion 329.80 (329.50 to 330.50): E

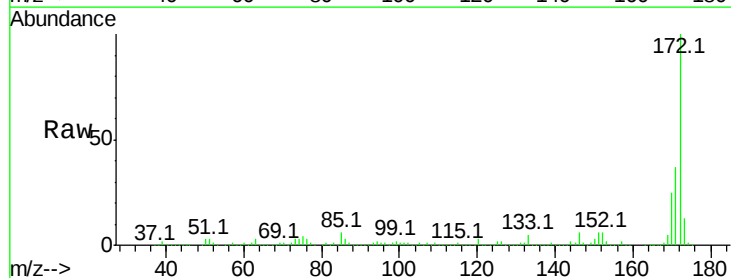
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 101.72 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.00 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	37.1	29.0	43.6	
170	25.2	19.8	29.8	

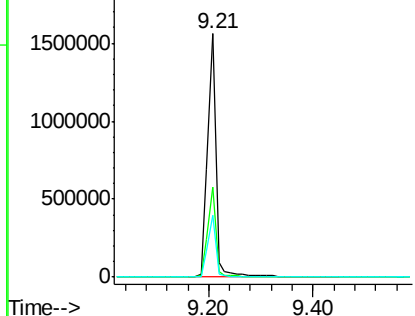
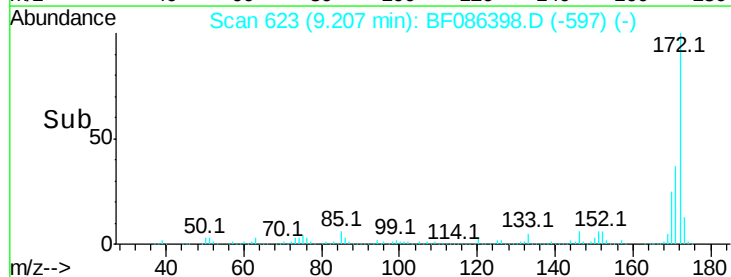


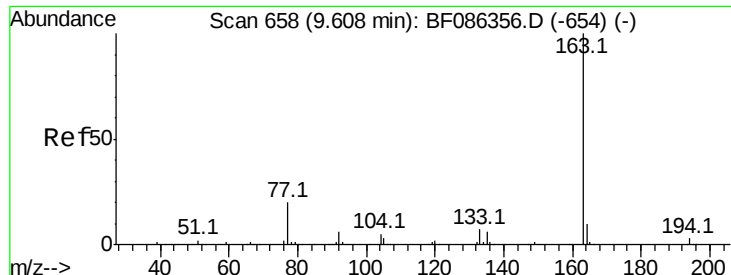
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





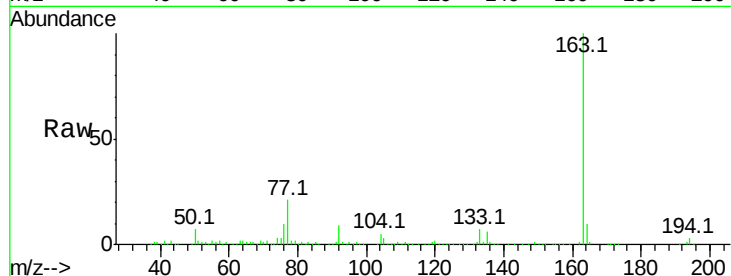
#49
Dimethylphthalate
Concen: 12.69 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.01 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Instrument :
BNA_F
ClientSampleId :
WPG-B4(0-13)-C

Tot Ion	Ratio	Resp	Lower	Upper
163	100	270451		
194	3.2		2.6	4.0
164	10.3		8.2	12.4

Manual Integrations
APPROVED

sohil
4/25/2016 12:36:05 PM

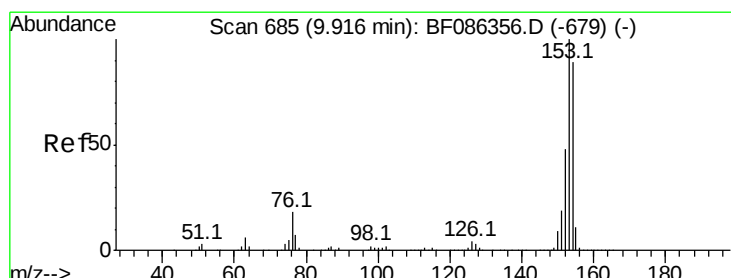
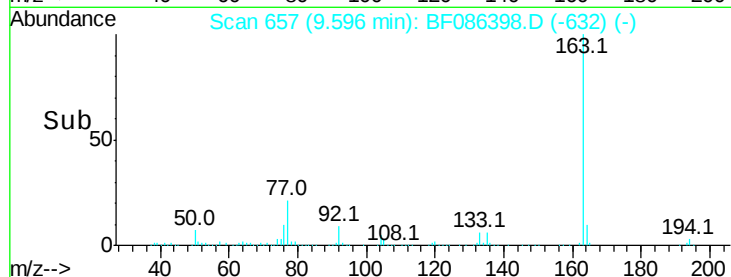
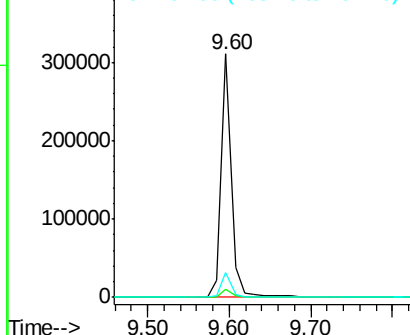


Abundance

Ion 163.00 (162.70 to 163.70): E

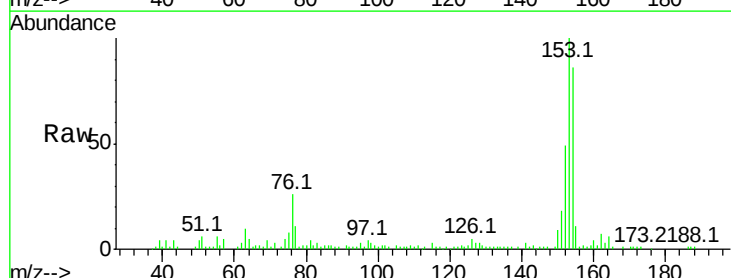
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 5.15 ng
RT: 9.90 min Scan# 684
Delta R.T. -0.01 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	92807		
153	115.9		89.8	134.6
152	56.3		43.4	65.0

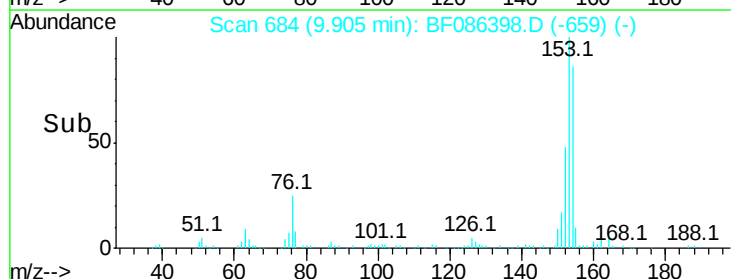
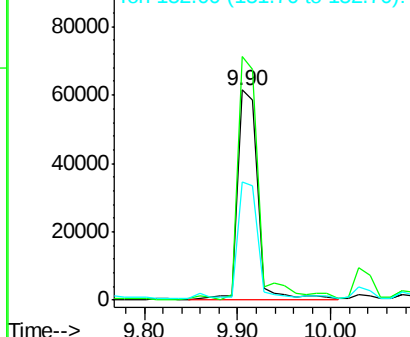


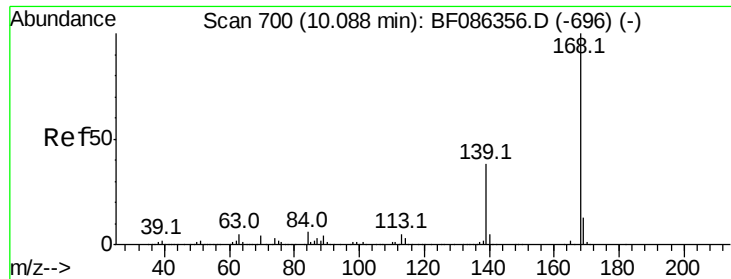
Abundance

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





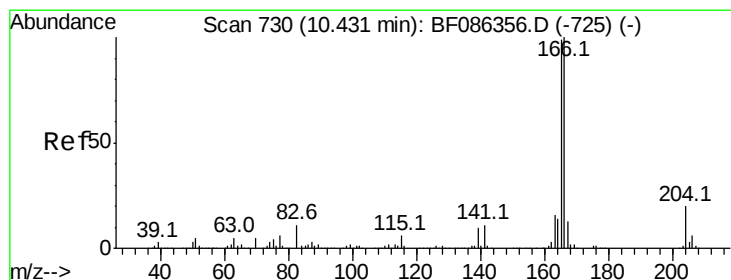
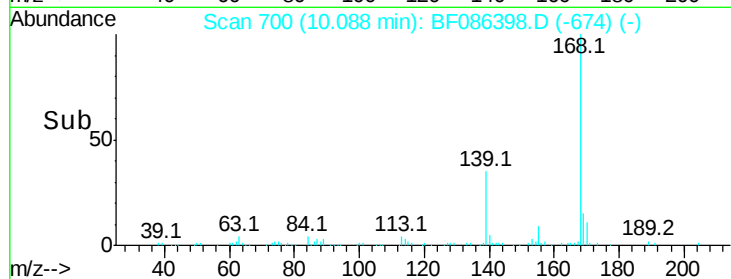
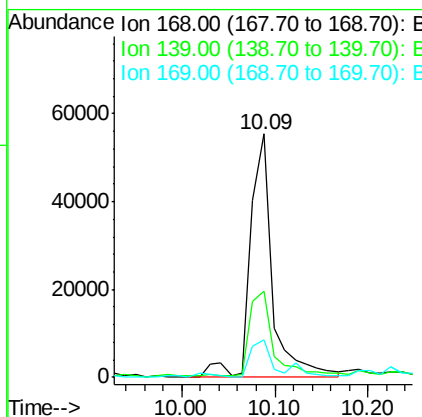
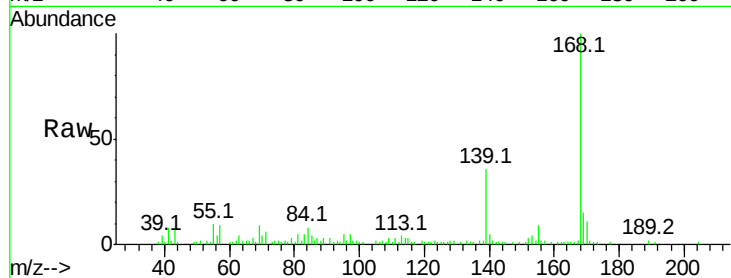
#54
Dibenzenofuran
Concen: 3.92 ng
RT: 10.09 min Scan# 700
Delta R.T. -0.00 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Instrument :
BNA_F
ClientSampleId :
WPG-B4(0-13)-C

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	35.6	31.4	47.0	
169	15.4	10.7	16.1	

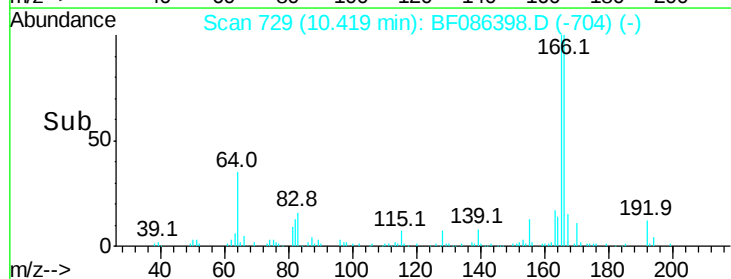
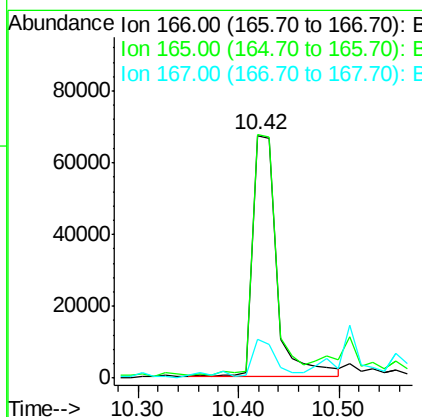
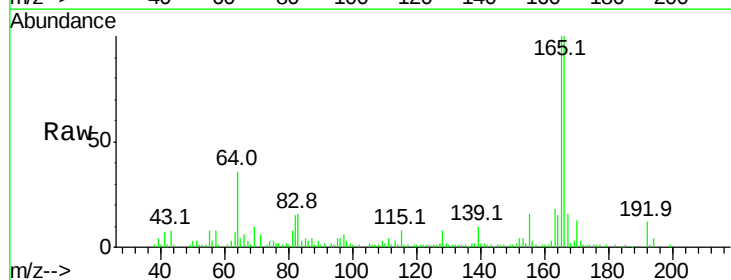
Manual Integrations
APPROVED

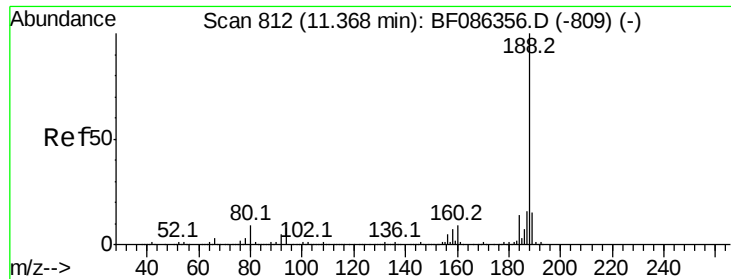
sohil
4/25/2016 12:36:05 PM



#57
Fluorene
Concen: 5.87 ng
RT: 10.42 min Scan# 729
Delta R.T. -0.01 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.5	79.0	118.6	
167	16.1	10.6	15.8#	





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

Instrument :

BNA_F

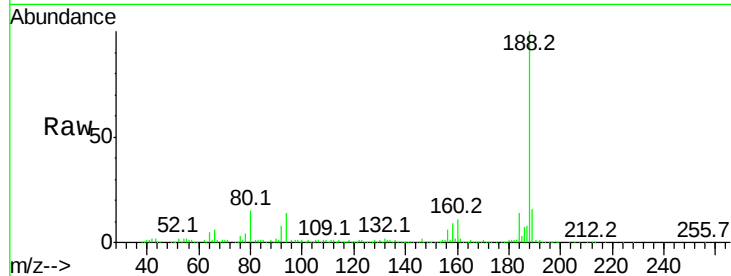
ClientSampleId :

WPG-B4(0-13)-C

Tot Ion:	188	Resp:	483054
Ion Ratio	Lower	Upper	
188	100		
94	13.8	6.8	10.2#
80	15.3	7.1	10.7#

Manual Integrations
APPROVED

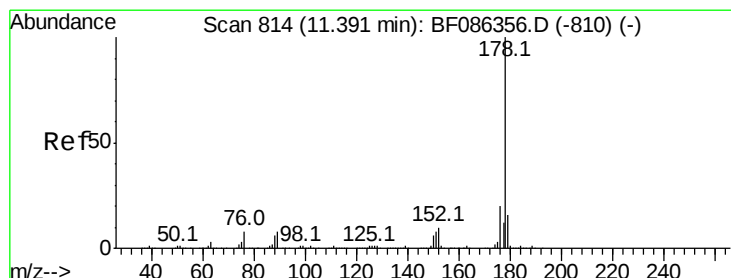
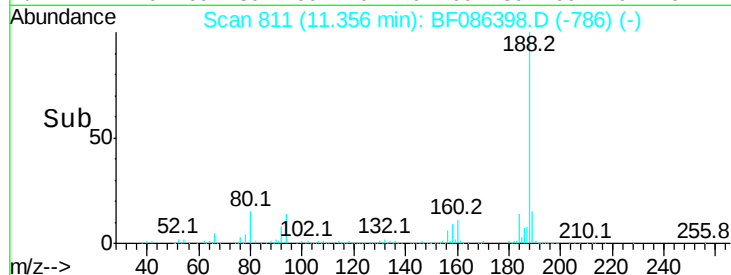
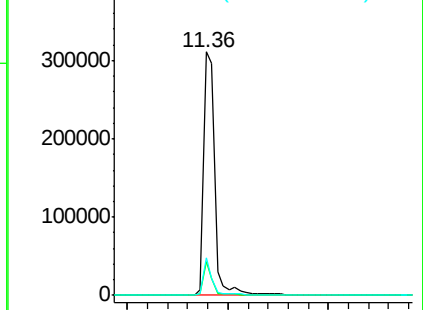
sohil
4/25/2016 12:36:05 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 33.66 ng

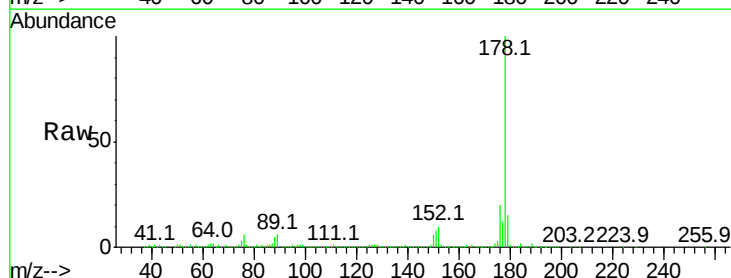
RT: 11.39 min Scan# 814

Delta R.T. -0.00 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

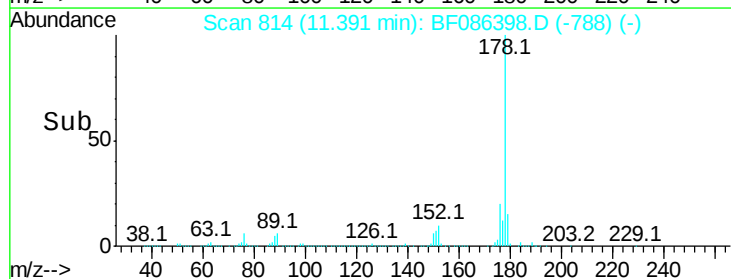
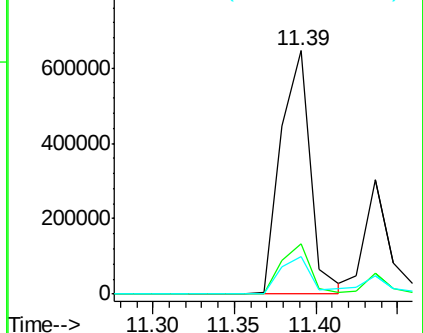
Tgt Ion:	178	Resp:	817074
Ion Ratio	Lower	Upper	
178	100		
176	20.4	16.0	24.0
179	15.4	12.6	18.8

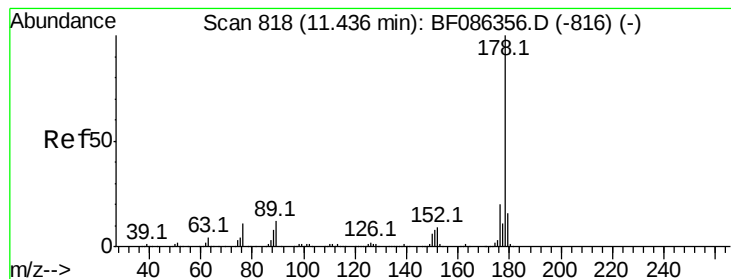


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





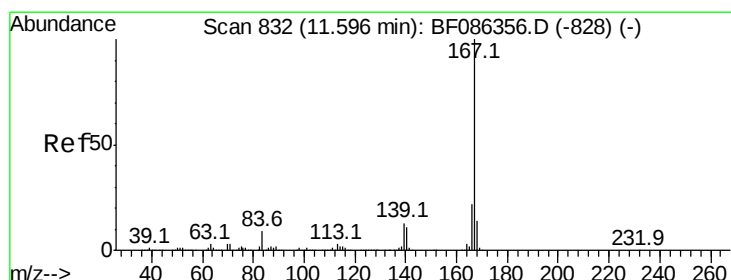
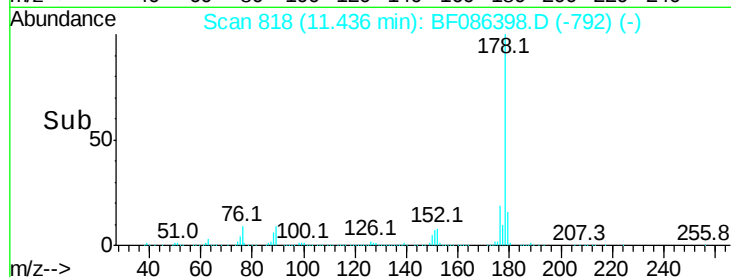
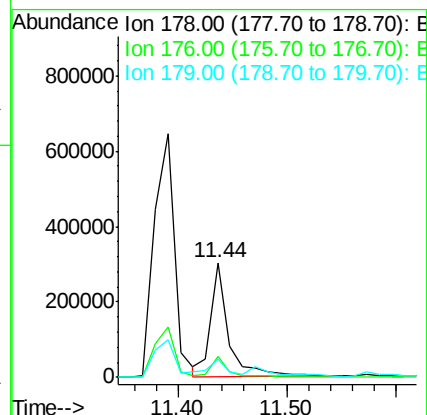
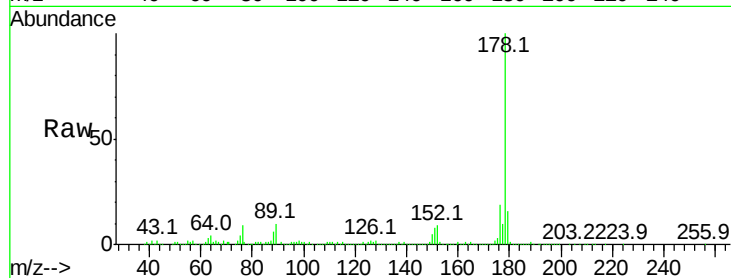
#71
 Anthracene
 Concen: 12.62 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Instrument :
 BNA_F
 ClientSampleId :
 WPG-B4(0-13)-C

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.6	23.4
179	15.7	12.7	19.1

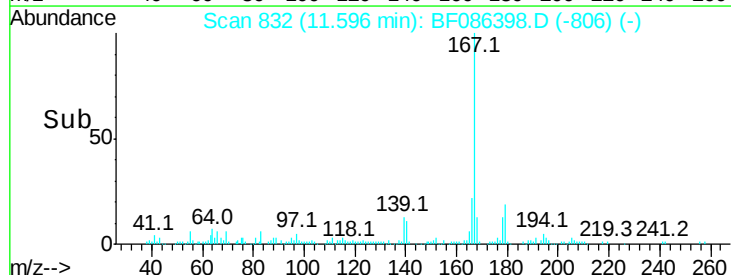
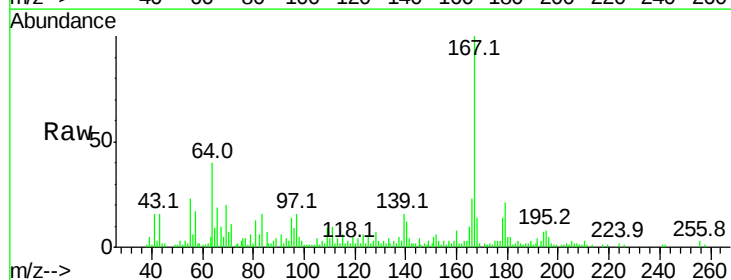
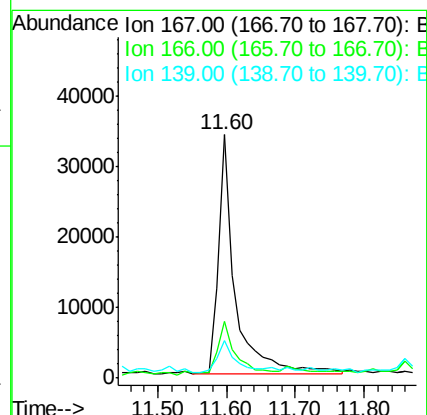
Manual Integrations
 APPROVED

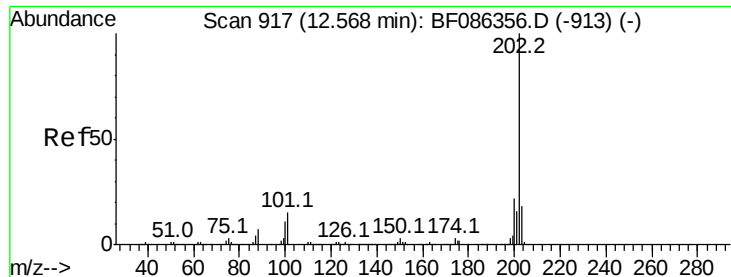
sohil
 4/25/2016 12:36:05 PM



#72
 Carbazole
 Concen: 2.27 ng
 RT: 11.60 min Scan# 832
 Delta R.T. -0.00 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.5	17.7	26.5
139	15.6	10.8	16.2





#74

Fluoranthene

Concen: 42.13 ng

RT: 12.59 min Scan# 919

Delta R.T. 0.02 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

Instrument :

BNA_F

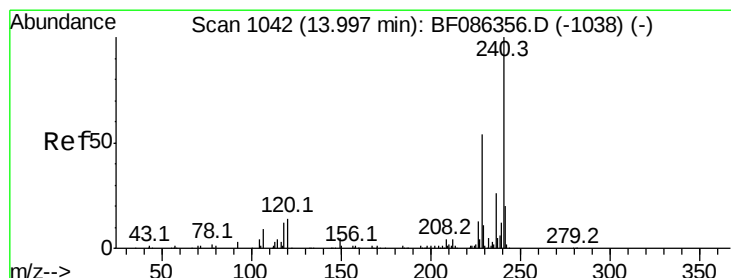
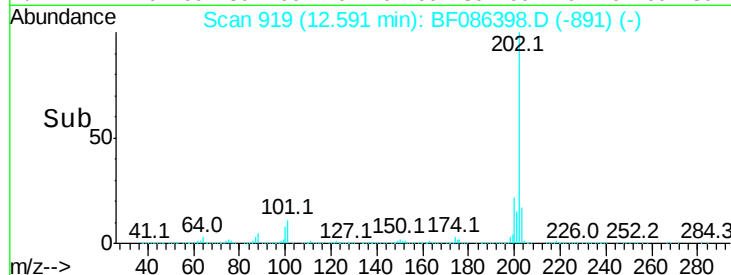
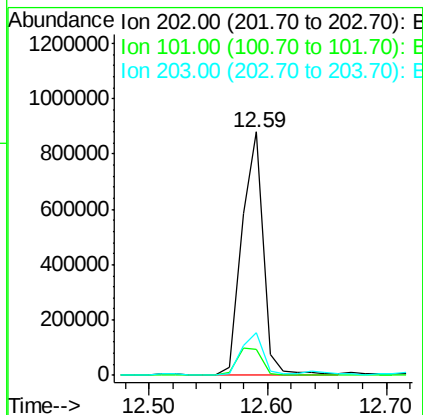
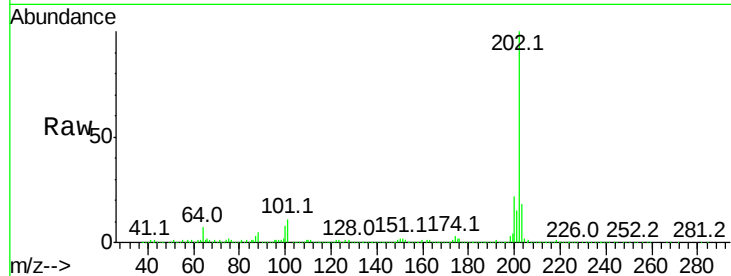
ClientSampleId :

WPG-B4(0-13)-C

Tot Ion:	202	Resp:	1102695
Ion Ratio	Lower	Upper	
202	100		
101	10.9	0.0	35.4
203	17.6	0.0	38.1

Manual Integrations
APPROVED

sohil
4/25/2016 12:36:05 PM



#75

Chrysene-d12

Concen: 20.00 ng

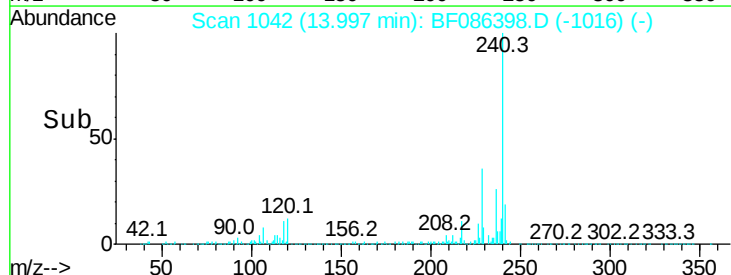
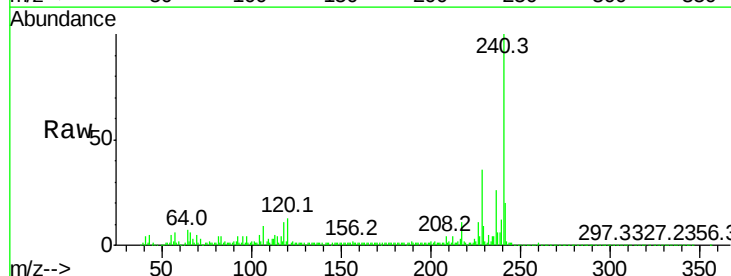
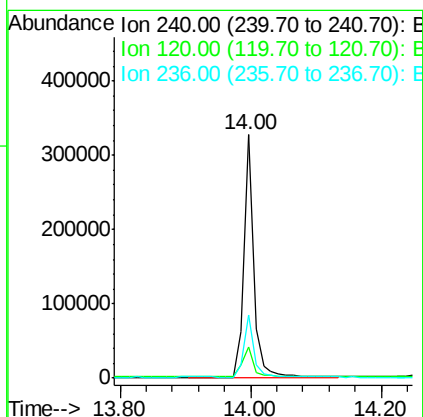
RT: 14.00 min Scan# 1042

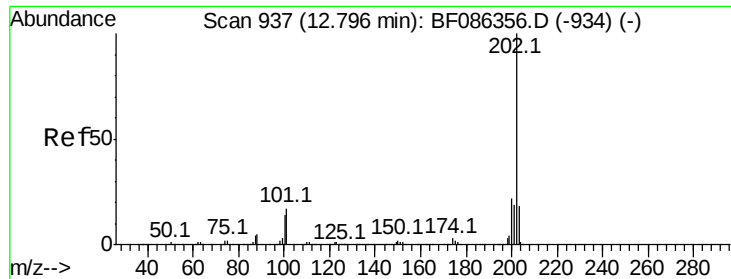
Delta R.T. -0.00 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

Tgt Ion:	240	Resp:	344043
Ion Ratio	Lower	Upper	
240	100		
120	12.7	11.2	16.8
236	26.0	21.2	31.8





#77

Pvrene

Concen: 40.18 ng

RT: 12.81 min Scan# 938

Delta R.T. 0.01 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

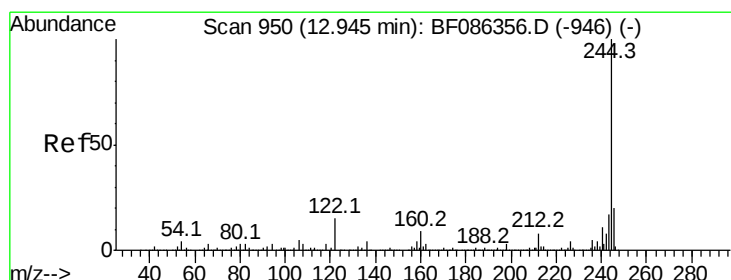
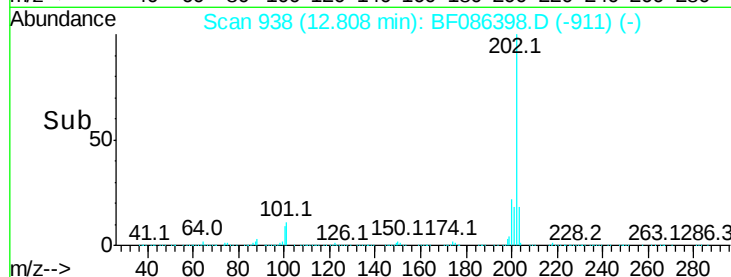
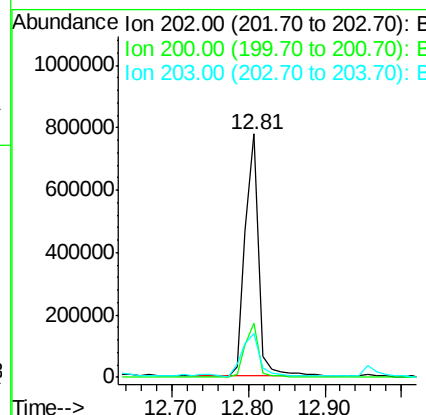
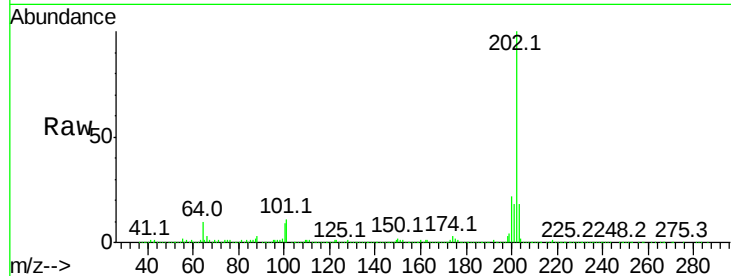
Instrument :
BNA_F

ClientSampleId :
WPG-B4(0-13)-C

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	22.4	17.7	26.5	
203	18.1	14.2	21.4	

Manual Integrations
APPROVED

sohil
4/25/2016 12:36:05 PM



#78

Terphenyl-d14

Concen: 81.09 ng

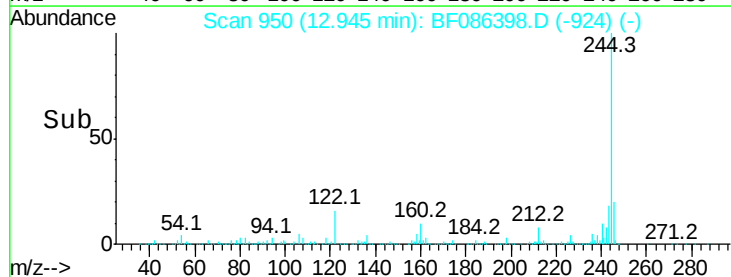
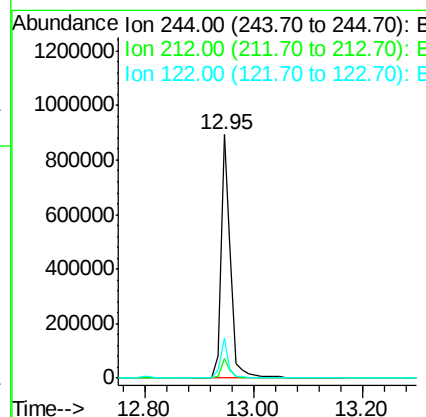
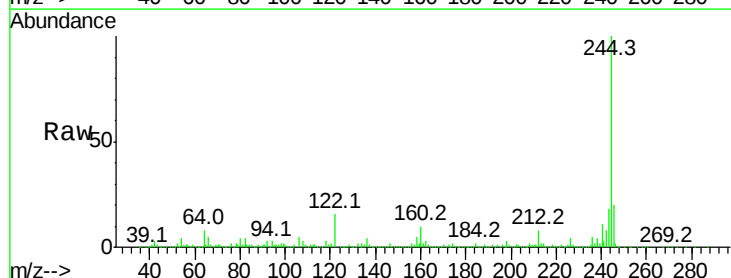
RT: 12.95 min Scan# 950

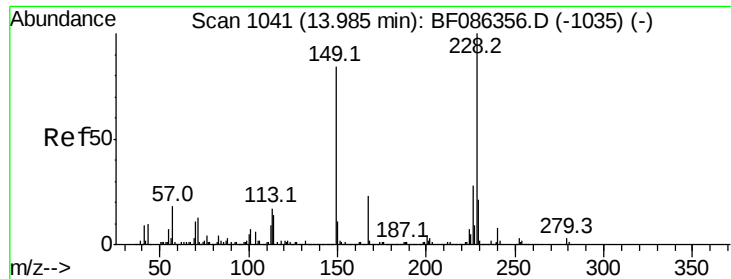
Delta R.T. -0.00 min

Lab File: BF086398.D

Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.2	6.2	9.2	
122	16.4	12.0	18.0	





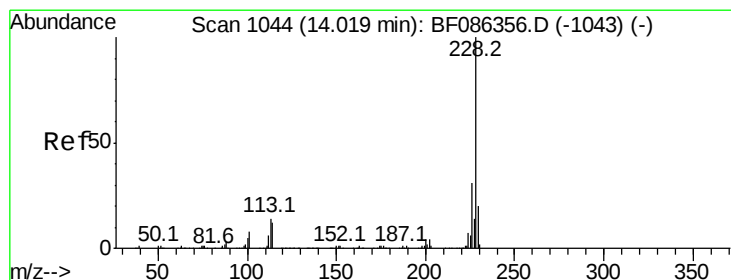
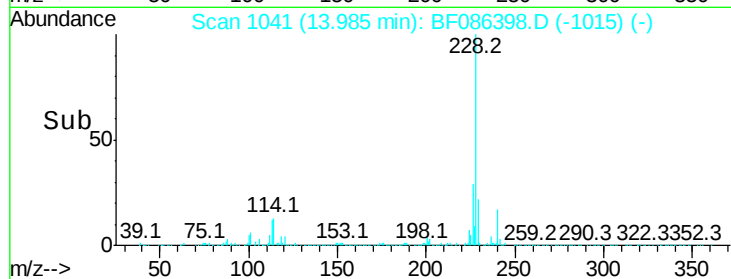
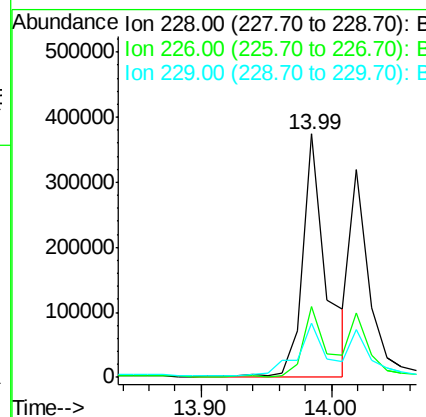
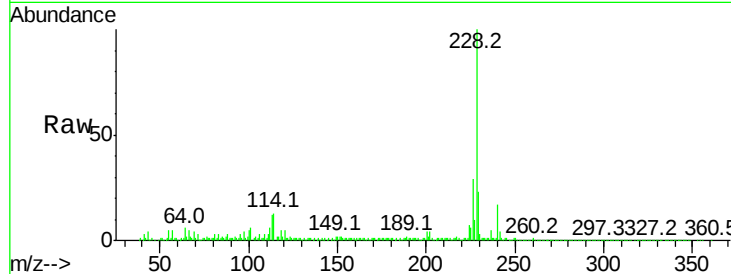
#80
 Benzo(a)anthracene
 Concen: 25.94 ng
 RT: 13.99 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Instrument :
 BNA_F
 ClientSampleId :
 WPG-B4(0-13)-C

Tot Ion:	228	Resp:	463245
Ion Ratio	Lower	Upper	
228	100		
226	29.3	22.5	33.7
229	22.5	16.6	25.0

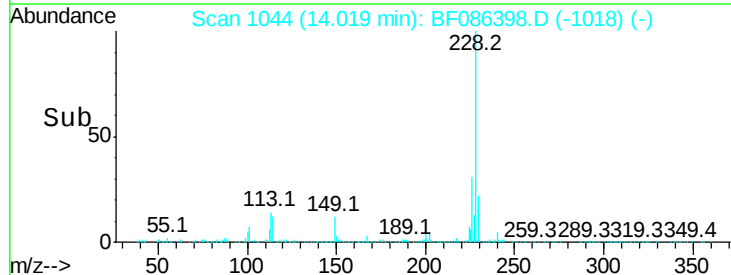
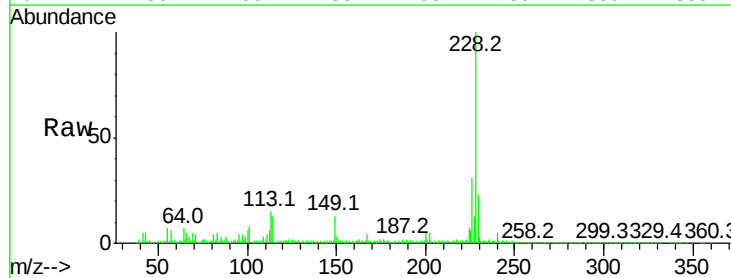
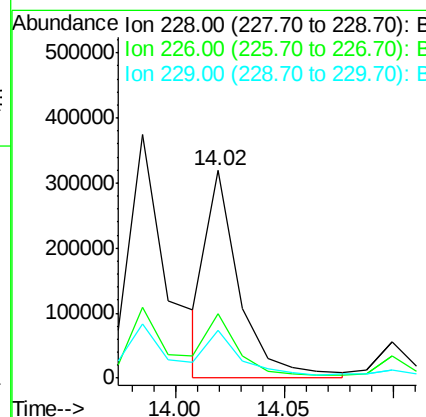
Manual Integrations
 APPROVED

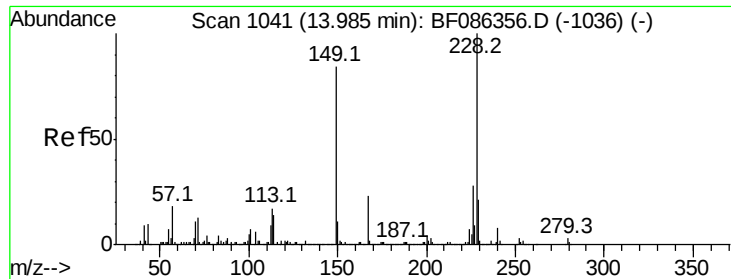
sohil
 4/25/2016 12:36:05 PM



#82
 Chrysene
 Concen: 16.53 ng
 RT: 14.02 min Scan# 1044
 Delta R.T. -0.00 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Tgt Ion:	228	Resp:	332642
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.4	36.6
229	22.8	15.8	23.8





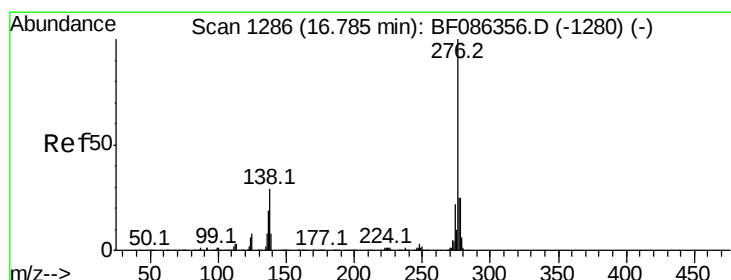
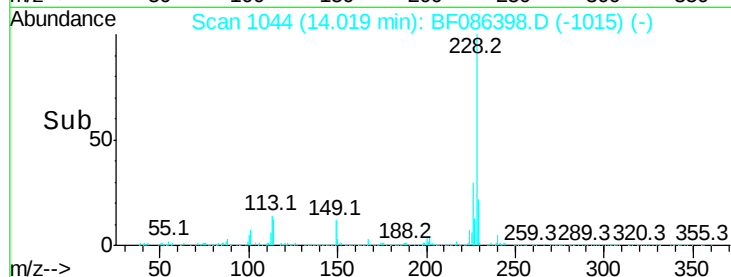
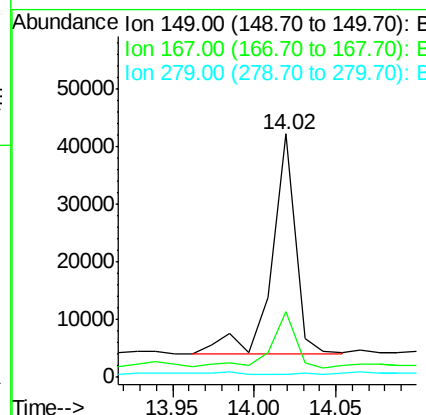
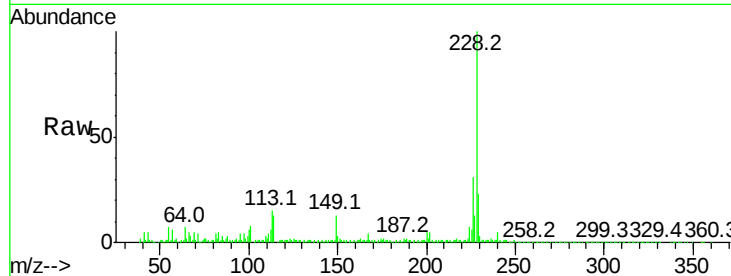
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.15 ng
 RT: 14.02 min Scan# 1044
 Delta R.T. 0.03 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Instrument :
 BNA_F
 ClientSampleId :
 WPG-B4(0-13)-C

Tot Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.8	32.6
279	1.3	2.6	4.0

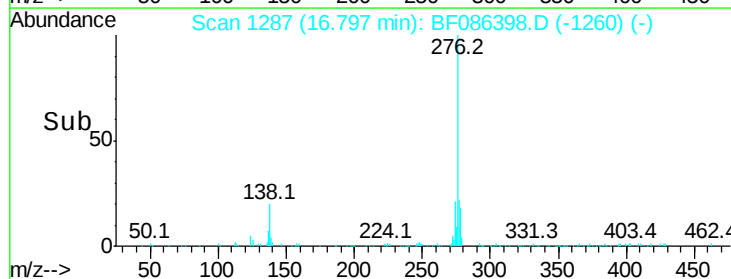
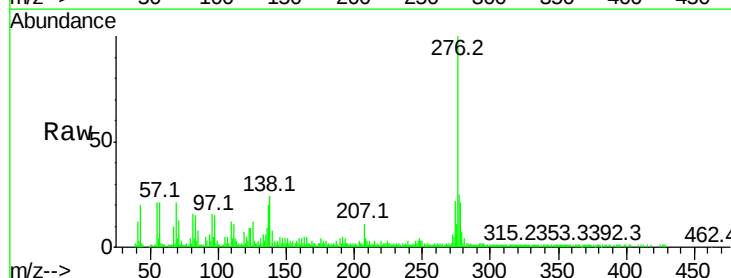
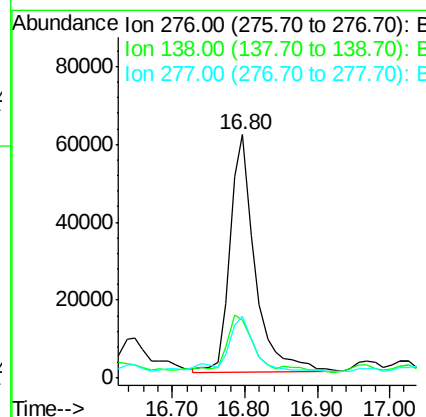
Manual Integrations
 APPROVED

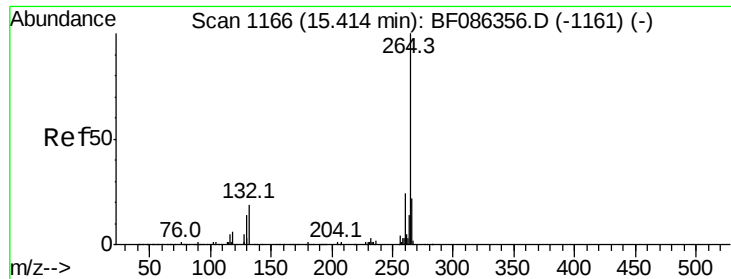
sohil
 4/25/2016 12:36:05 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.05 ng
 RT: 16.80 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: BF086398.D
 Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.2	25.6	38.4
277	28.1	20.5	30.7





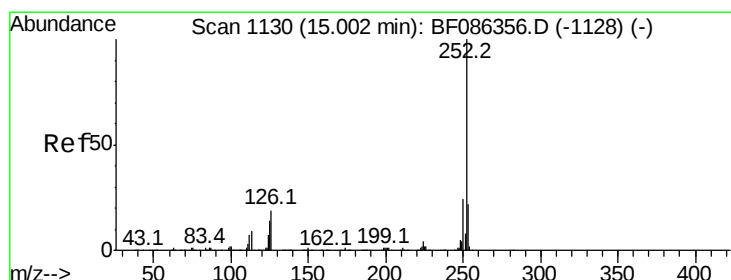
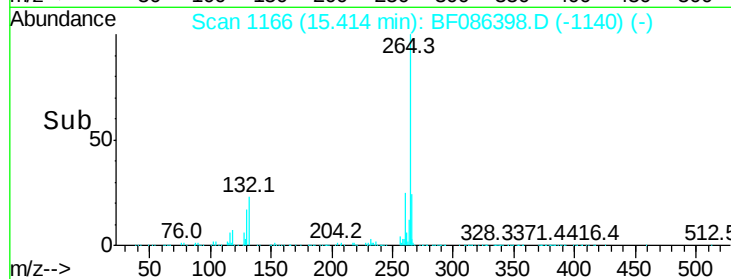
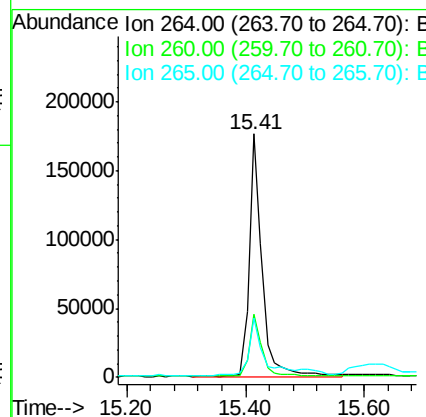
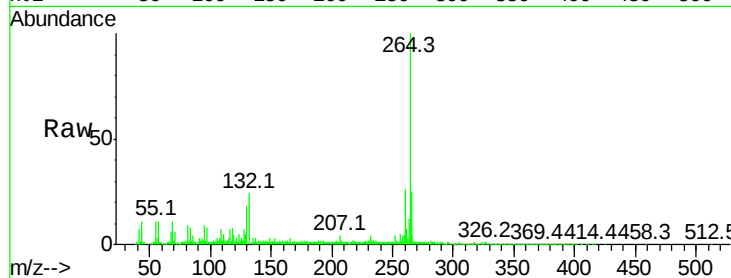
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Instrument :
BNA_F
ClientSampleId :
WPG-B4(0-13)-C

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.5	29.3
265	24.5	17.3	25.9

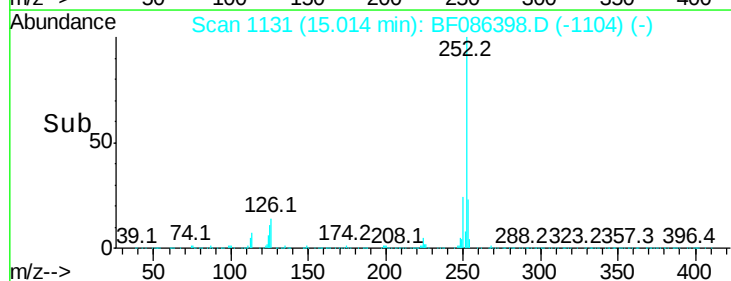
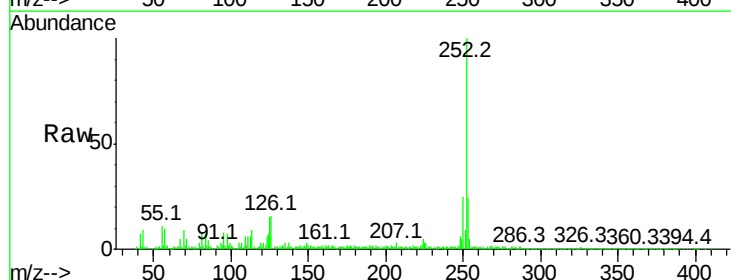
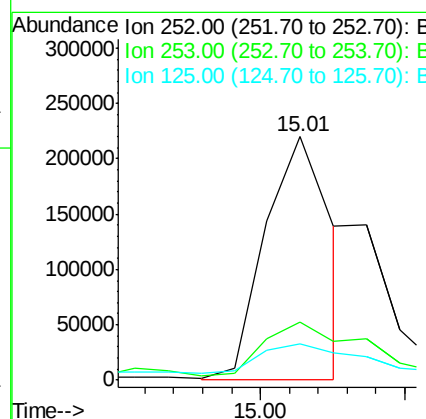
Manual Integrations
APPROVED

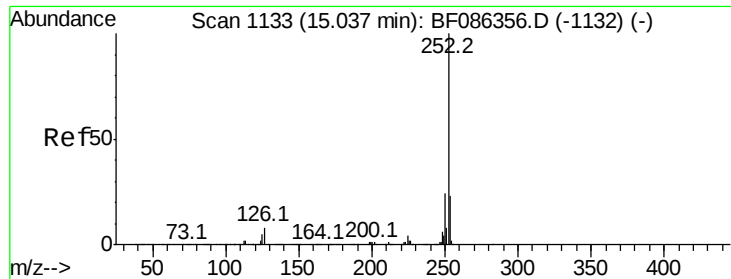
sohil
4/25/2016 12:36:05 PM



#87
Benzo(b)fluoranthene
Concen: 24.57 ng m
RT: 15.01 min Scan# 1131
Delta R.T. 0.01 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.6
125	14.8	11.4	17.0





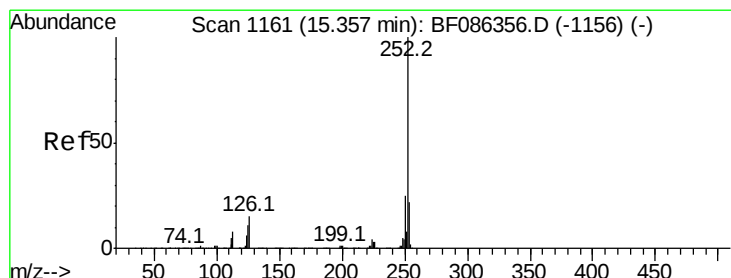
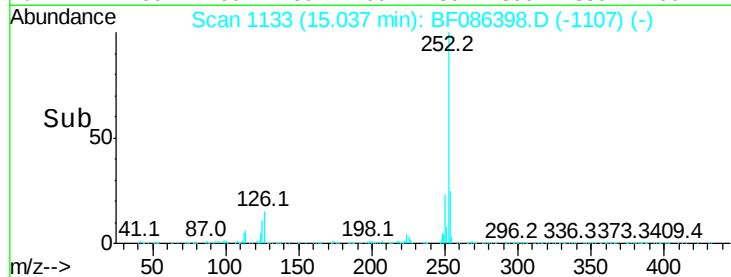
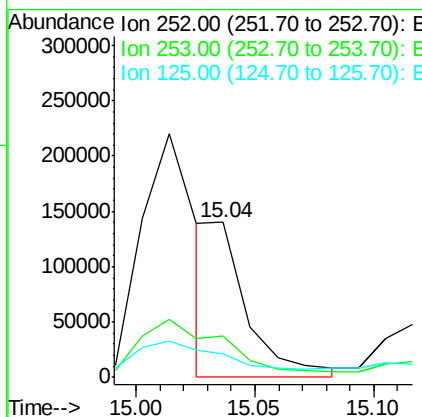
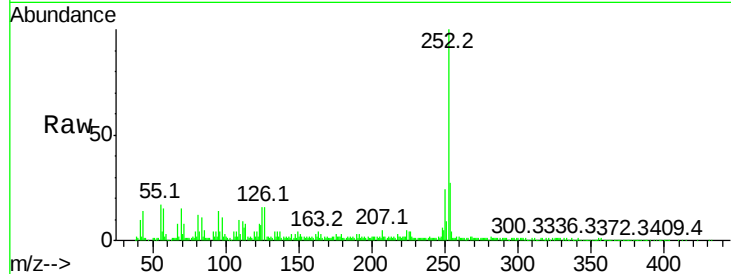
#88
Benzo(k)fluoranthene
Concen: 10.83 ng m
RT: 15.04 min Scan# 1133
Delta R.T. 0.00 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Instrument :
BNA_F
ClientSampleId :
WPG-B4(0-13)-C

Tot Ion	Ratio	Resp	Lower	Upper
252	100			
253	26.5	17.8	26.6	
125	15.5	9.1	13.7	

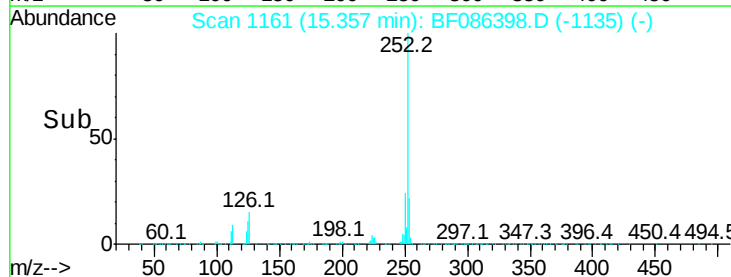
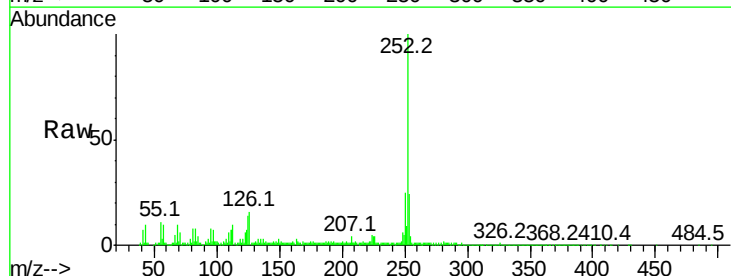
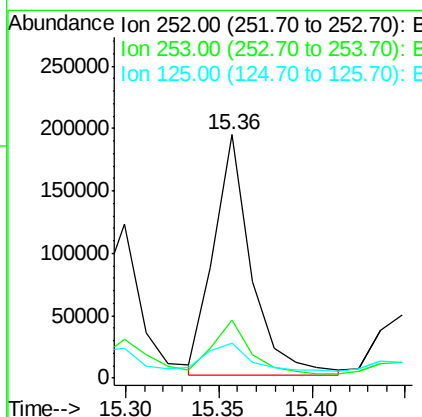
Manual Integrations
APPROVED

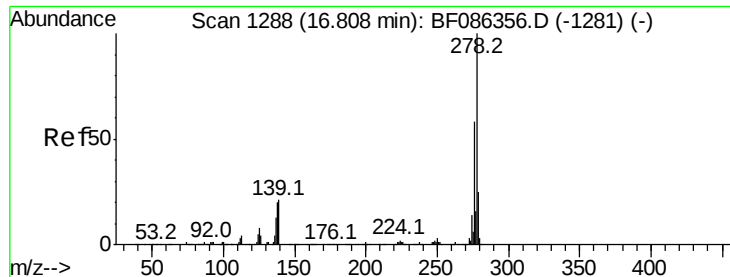
sohil
4/25/2016 12:36:05 PM



#89
Benzo(a)pyrene
Concen: 19.19 ng
RT: 15.36 min Scan# 1161
Delta R.T. -0.00 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.9	17.2	25.8	
125	14.3	9.0	13.6	





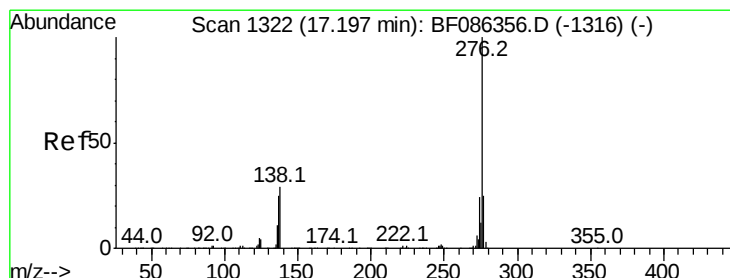
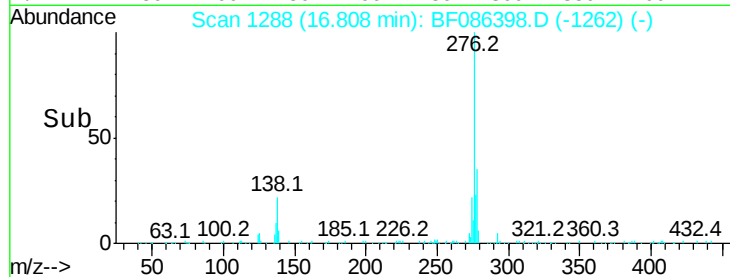
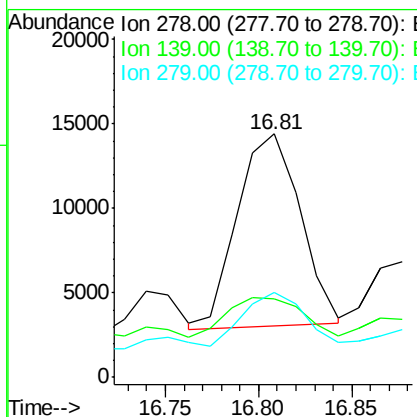
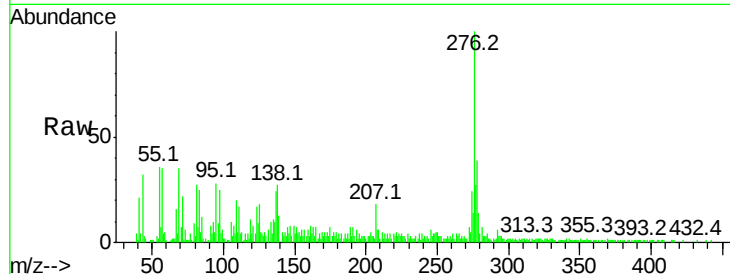
#90
Dibenzo(a,h)anthracene
Concen: 2.29 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.00 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Instrument :
BNA_F
ClientSampleId :
WPG-B4(0-13)-C

Tot Ion	Ratio	Lower	Upper
278	100		
139	32.2	16.6	24.8#
279	34.9	19.6	29.4#

Manual Integrations
APPROVED

sohil
4/25/2016 12:36:05 PM



#91
Benzo(g,h,i)perylene
Concen: 10.97 ng
RT: 17.21 min Scan# 1323
Delta R.T. 0.01 min
Lab File: BF086398.D
Acq: 23 Apr 2016 18:56

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.6	29.4
138	26.7	23.6	35.4

