

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\
 Data File : BF086160.D
 Acq On : 8 Apr 2016 5:35
 Operator : UM/SJ
 Sample : H2310-06
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB4-0-6.0

Manual Integrations
 APPROVED

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 4/8/2016 6:09:34 PM

Quant Time: Apr 08 15:21:43 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	110438	20.00	ng	-0.03
21) Naphthalene-d8	8.03	136	408900	20.00	ng	-0.03
38) Acenaphthene-d10	9.78	164	168622	20.00	ng	-0.03
63) Phenanthrene-d10	11.28	188	133746	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	131723m	20.00	ng	0.07
86) Perylene-d12	15.40	264	164787m	20.00	ng	0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	723245	111.94	ng	-0.03
7) Phenol-d6	6.38	99	888548	108.27	ng	-0.03
23) Nitrobenzene-d5	7.31	82	607891	87.67	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	163228	103.13	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	744562	73.42	ng	-0.03
78) Terphenyl-d14	12.89	244	363461	64.86	ng	0.01
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	7.70	122	25847	3.97	ng	94
31) Naphthalene	8.05	128	3965293	192.79	ng	98
37) 2-Methylnaphthalene	8.74	142	1618512	120.46	ng	98
45) 1,1'-Biphenyl	9.21	154	874783	60.17	ng	94
49) Dimethylphthalate	9.50	163	158640	12.69	ng	99
51) Acenaphthene	9.84	154	2722447	271.13	ng	99
54) Dibenzofuran	10.01	168	3342468	252.06	ng	99
57) Fluorene	10.35	166	2690358	237.50	ng	# 98
70) Phenanthrene	11.38	178	19840813m	2719.25	ng	
72) Carbazole	11.54	167	2619783	398.74	ng	97
74) Fluoranthene	12.58	202	15097788	1989.41	ng	89
77) Pylene	12.82	202	13068415m	1407.88	ng	
80) Benzo(a)anthracene	13.99	228	10372314m	1335.85	ng	
82) Chrysene	14.02	228	2643023m	353.38	ng	
83) Bis(2-ethylhexyl)phthalate	13.93	149	60617m	10.93	ng	
85) Indeno(1,2,3-cd)pyrene	16.82	276	4699352m	774.41	ng	
88) Benzo(k)fluoranthene	15.01	252	9618348m	1047.80	ng	
89) Benzo(a)pyrene	15.28	252	5343959m	581.84	ng	
90) Dibenz(a,h)anthracene	16.76	278	1616461m	218.75	ng	
91) Benzo(a,h,i)perylene	17.24	276	4450217m	622.29	ng	

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

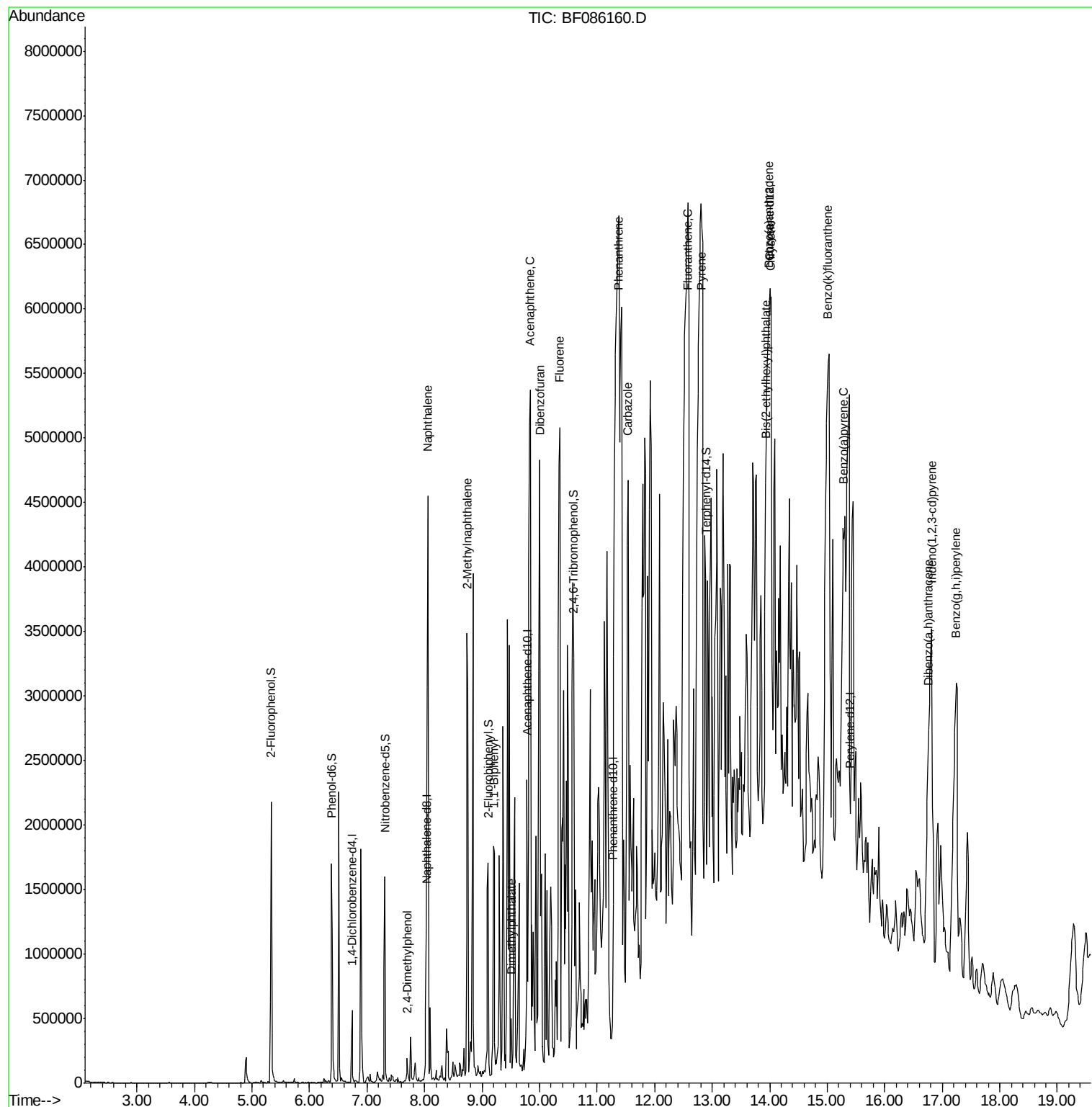
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#1

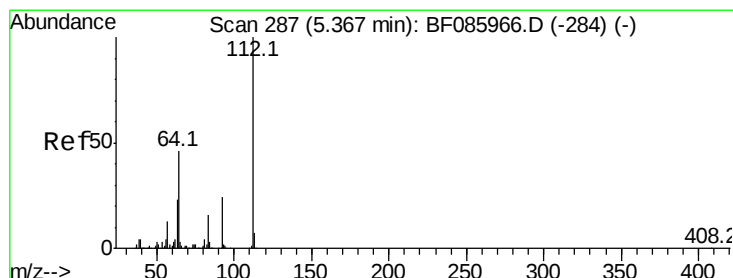
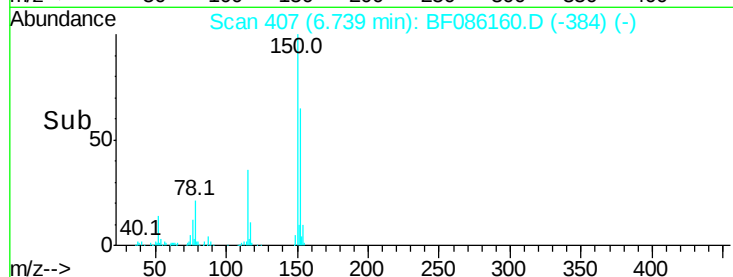
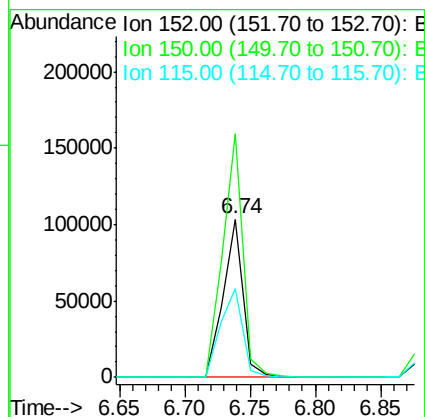
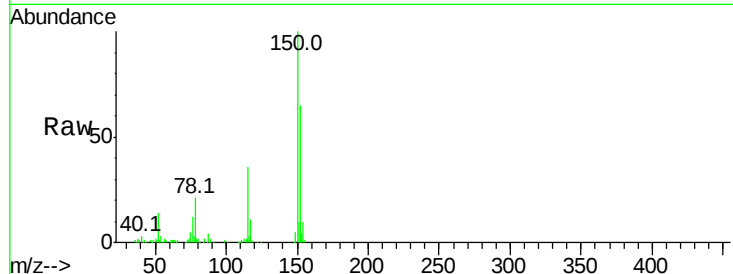
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 407
Delta R.T. -0.03 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.2	186.2
115	56.0	47.0	70.6

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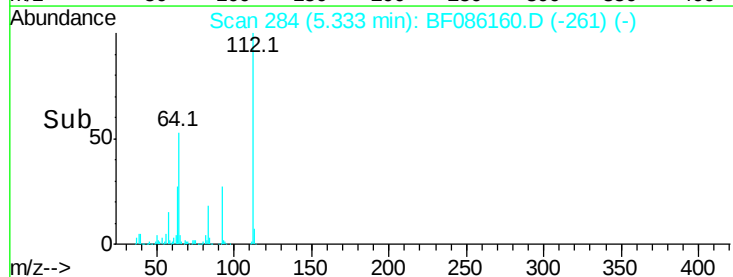
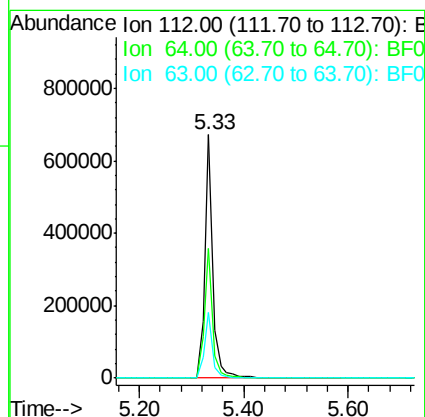
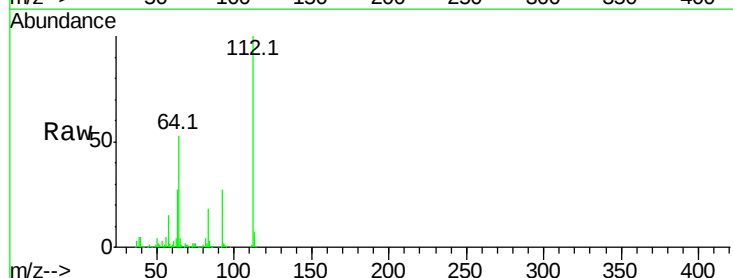
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#5

2-Fluorophenol
Concen: 111.94 ng
RT: 5.33 min Scan# 284
Delta R.T. -0.03 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	39.9	59.9
63	26.9	20.2	30.2





#7

Phenol-d6

Concen: 108.27 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.03 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

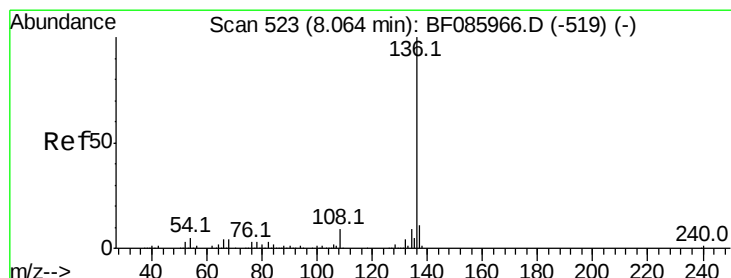
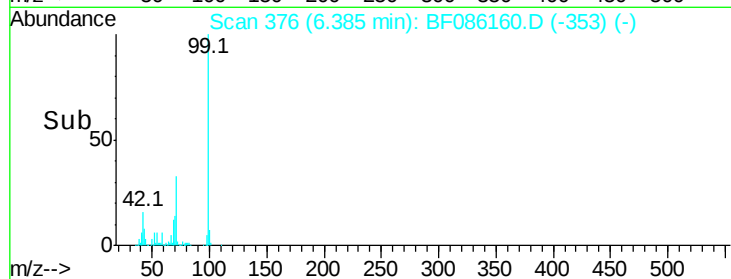
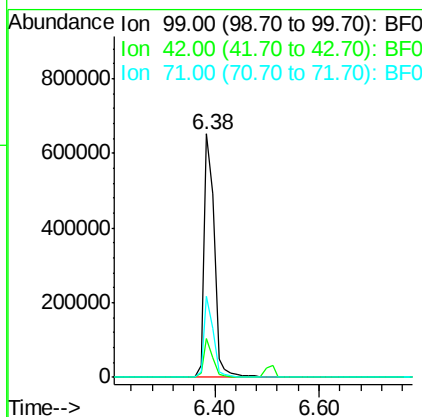
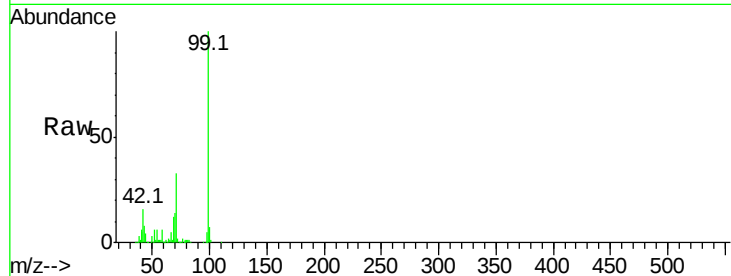
ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:	99	Resp:	888548
Ion Ratio	Lower	Upper	
99	100		
42	15.9	11.1	16.7
71	33.1	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

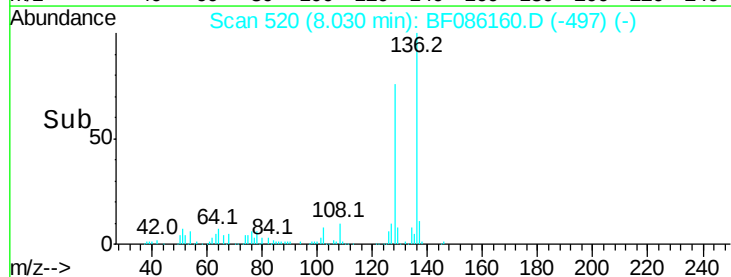
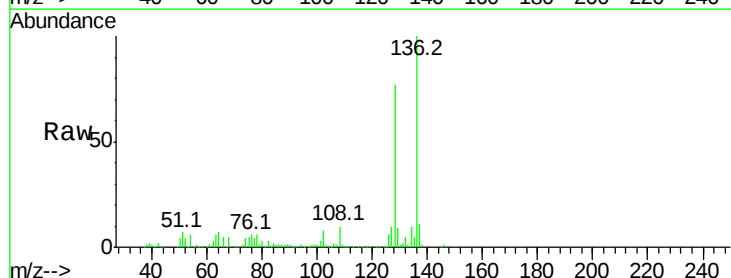
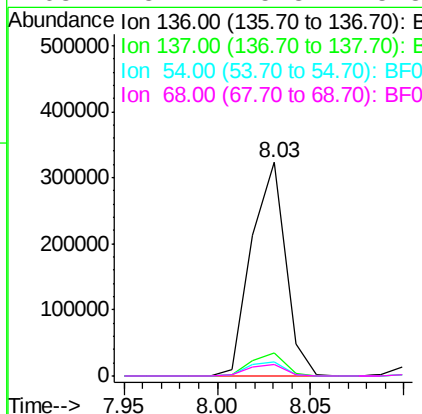
RT: 8.03 min Scan# 520

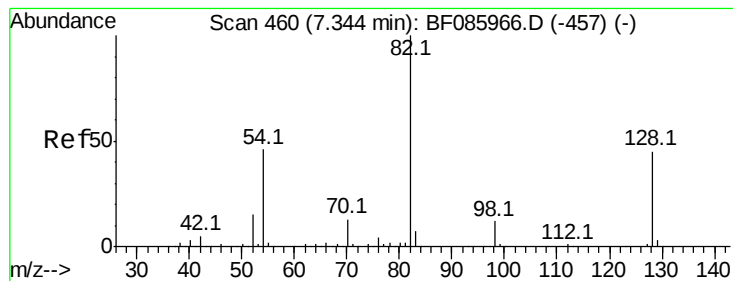
Delta R.T. -0.03 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Tgt Ion:	136	Resp:	408900
Ion Ratio	Lower	Upper	
136	100		
137	10.6	9.1	13.7
54	6.3	7.4	11.0#
68	5.4	5.8	8.8#





#23

Nitrobenzene-d5

Concen: 87.67 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.03 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

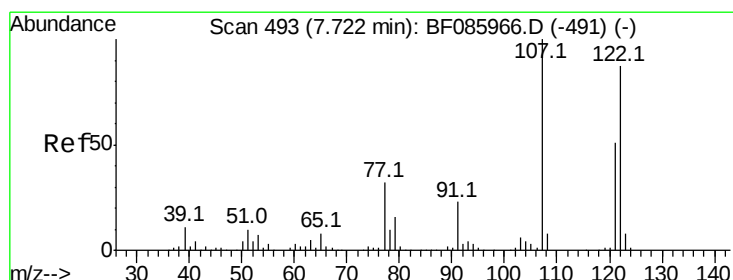
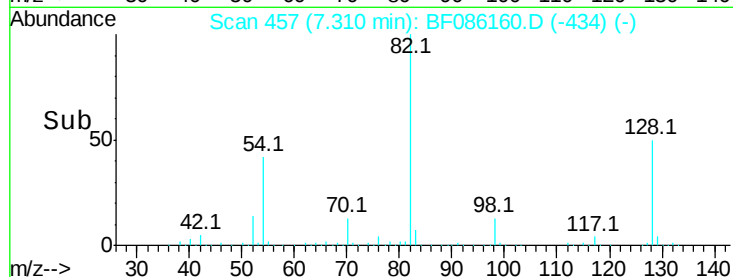
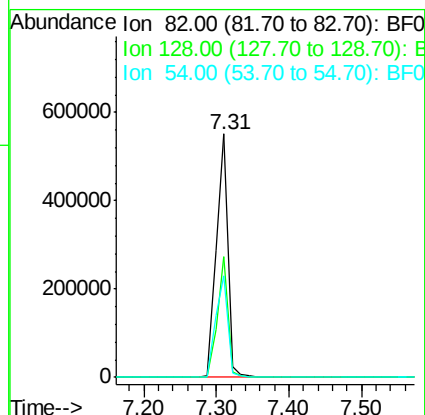
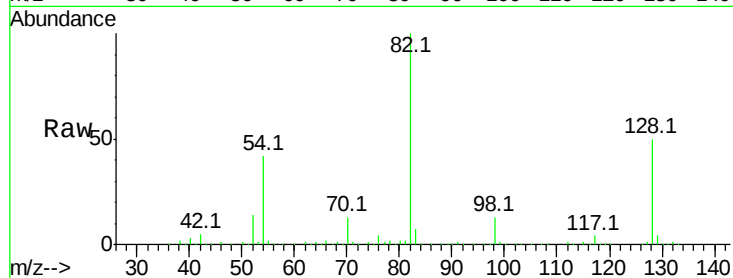
ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:	82	Resp:	607891
Ion Ratio	Lower	Upper	
82	100		
128	49.6	41.8	62.8
54	41.9	33.4	50.0

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#27

2,4-Dimethylphenol

Concen: 3.97 ng

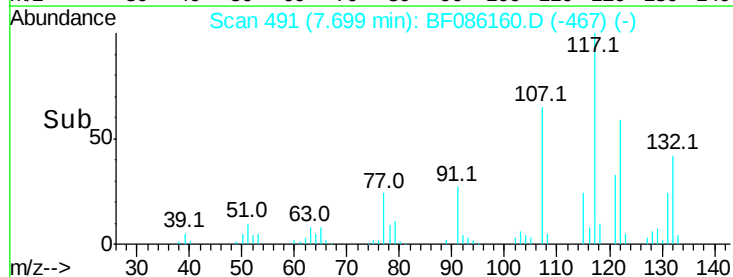
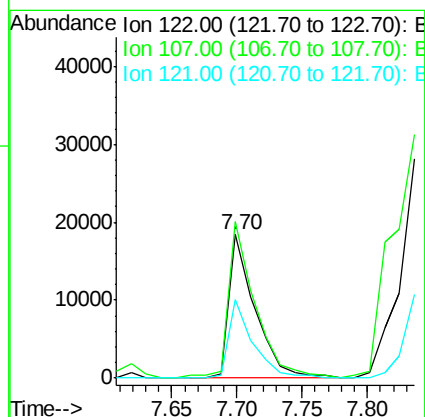
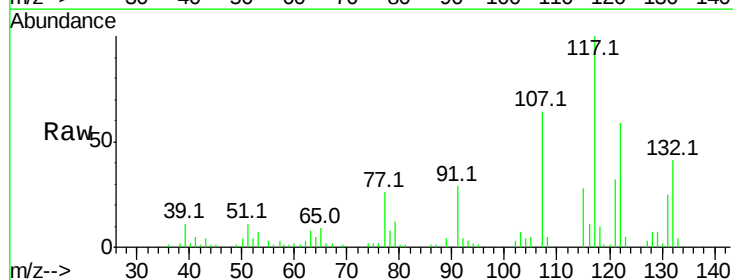
RT: 7.70 min Scan# 491

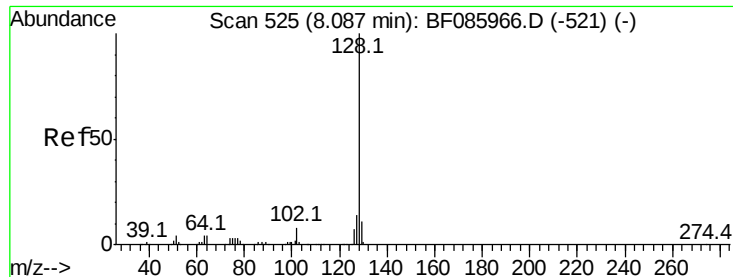
Delta R.T. -0.02 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Tgt Ion:	122	Resp:	25847
Ion Ratio	Lower	Upper	
122	100		
107	108.9	93.0	139.6
121	55.0	45.9	68.9





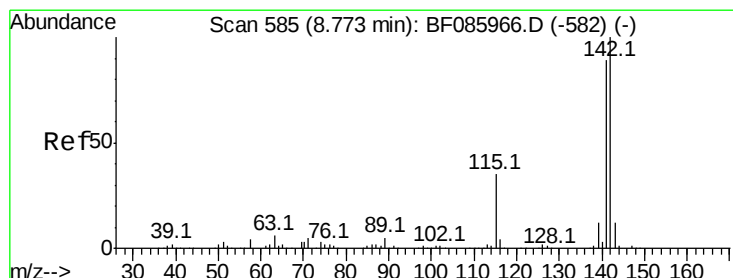
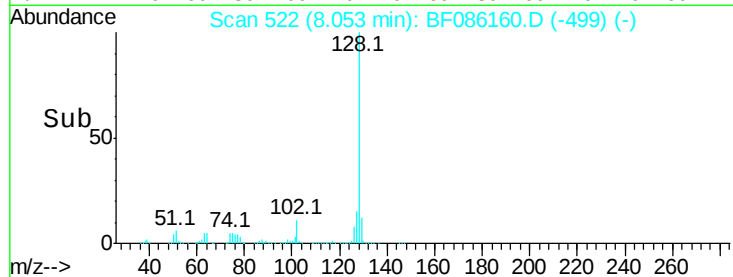
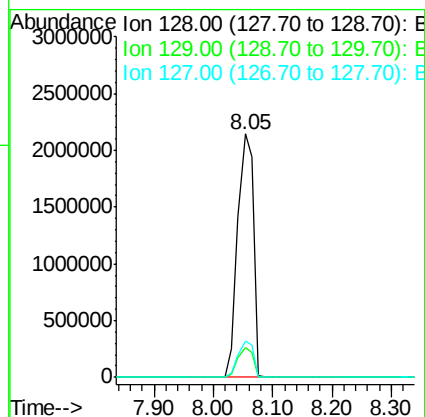
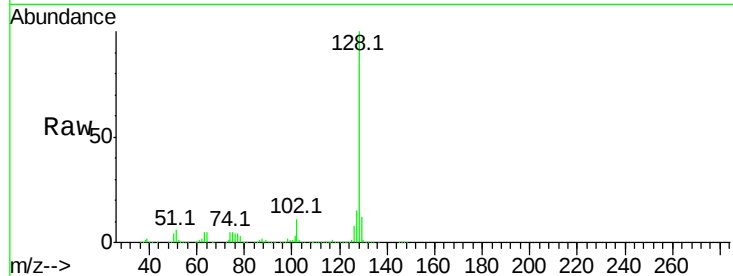
#31
Naphthalene
Concen: 192.79 ng
RT: 8.05 min Scan# 522
Delta R.T. -0.03 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0

Tot Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.4	14.0
127	14.7	11.0	16.6

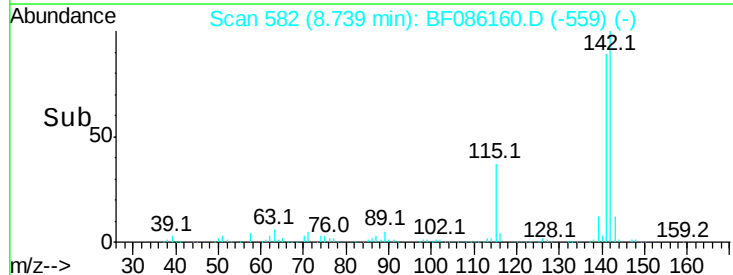
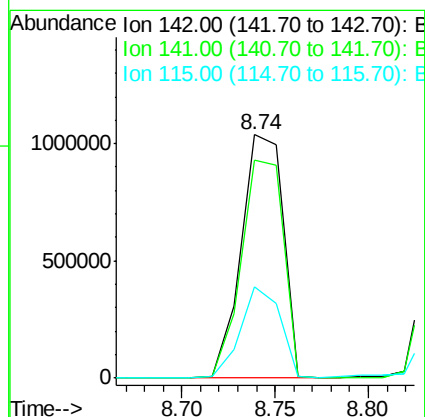
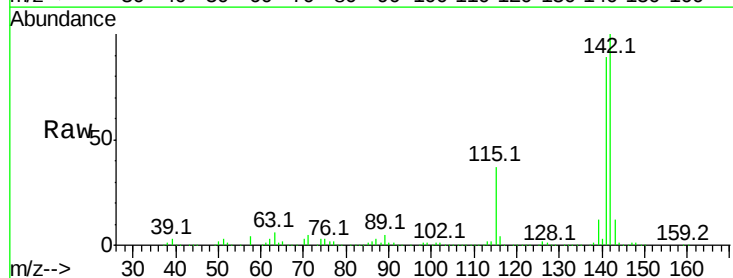
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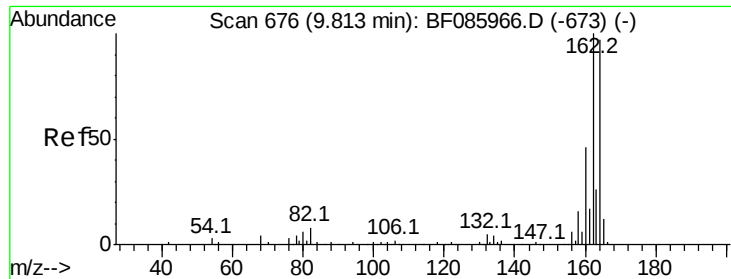
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#37
2-Methylnaphthalene
Concen: 120.46 ng
RT: 8.74 min Scan# 582
Delta R.T. -0.03 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.6	107.4
115	37.4	26.8	40.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.03 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

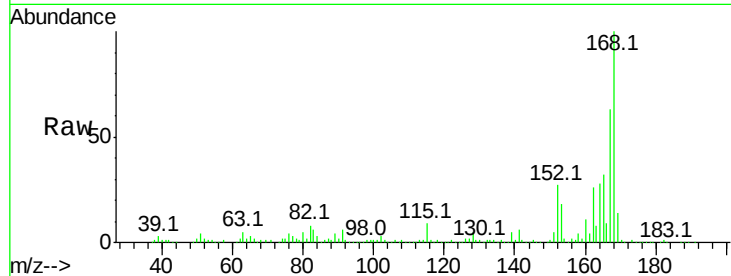
ClientSampleId :

PEDBR-SB4-0-6.0

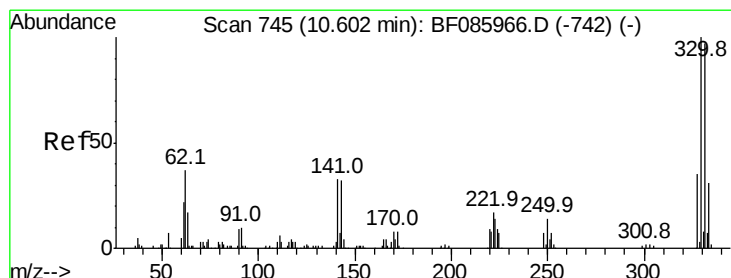
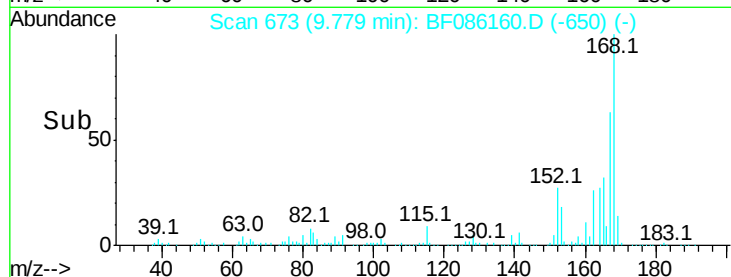
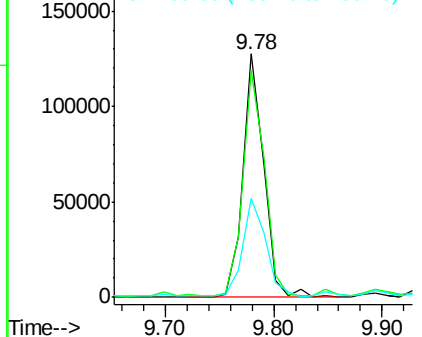
Tot Ion:	164	Resp:	168622
Ion Ratio	Lower	Upper	
164	100		
162	93.1	82.1	123.1
160	40.9	37.4	56.2

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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: 103.13 ng

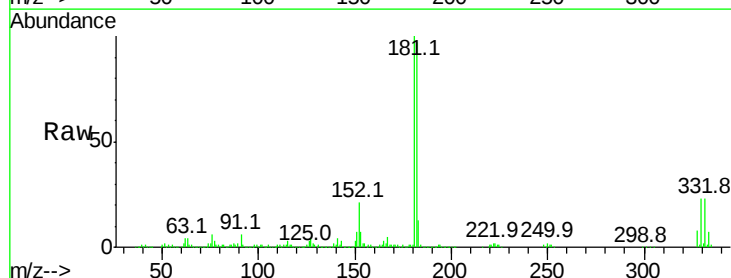
RT: 10.59 min Scan# 744

Delta R.T. -0.01 min

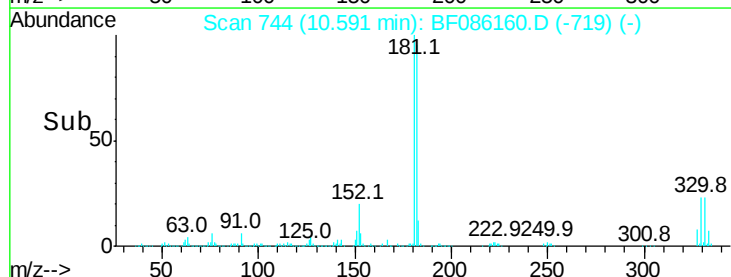
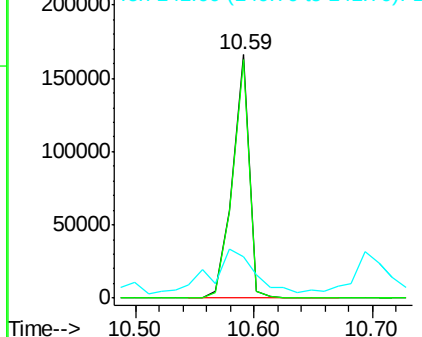
Lab File: BF086160.D

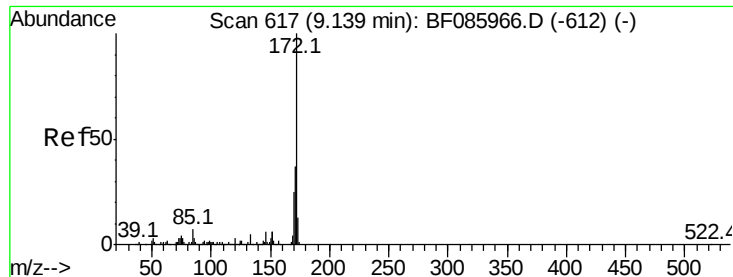
Acq: 8 Apr 2016 5:35

Tgt Ion:	330	Resp:	163228
Ion Ratio	Lower	Upper	
330	100		
332	97.7	78.2	117.2
141	44.6	31.5	47.3



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: 73.42 ng

RT: 9.10 min Scan# 614

Delta R.T. -0.03 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

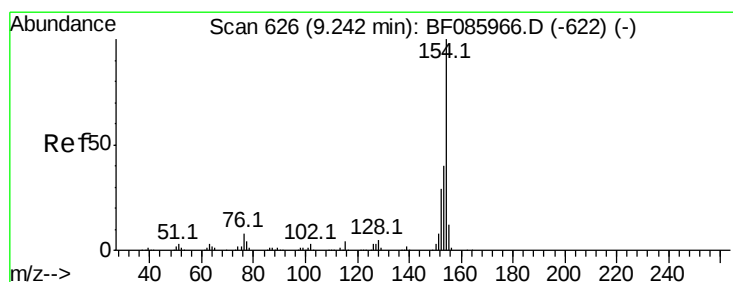
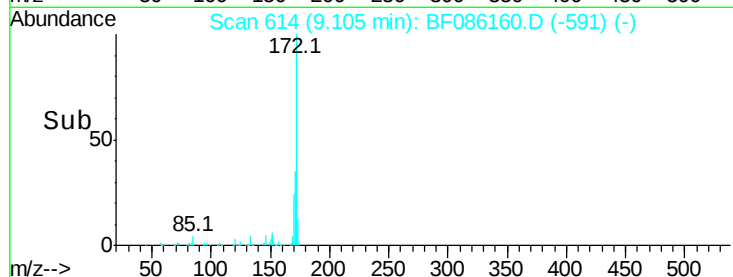
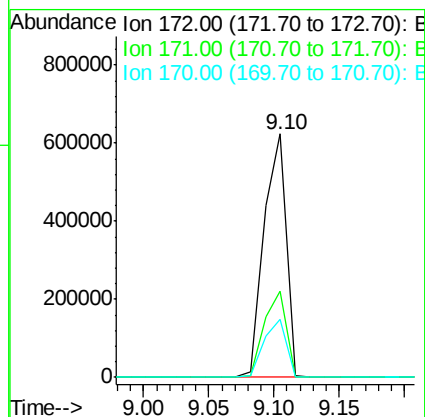
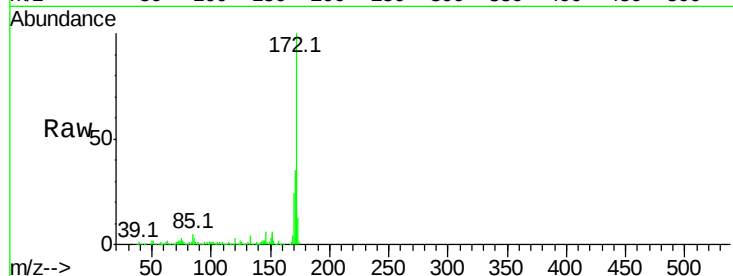
ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:	172	Resp:	744562
Ion Ratio	Lower	Upper	
172	100		
171	35.3	29.4	44.2
170	23.7	19.8	29.6

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#45

1,1'-Biphenyl

Concen: 60.17 ng

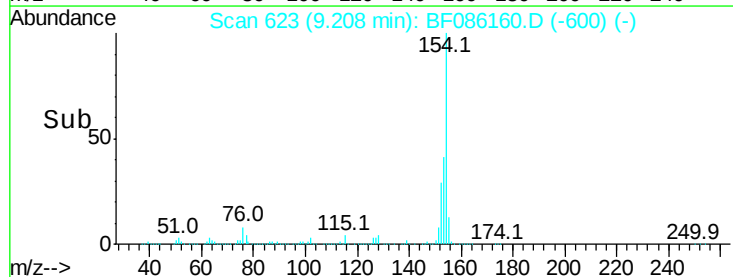
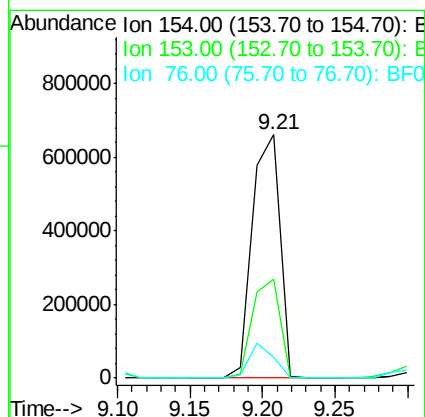
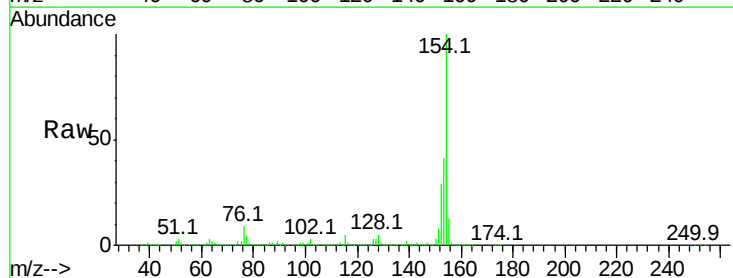
RT: 9.21 min Scan# 623

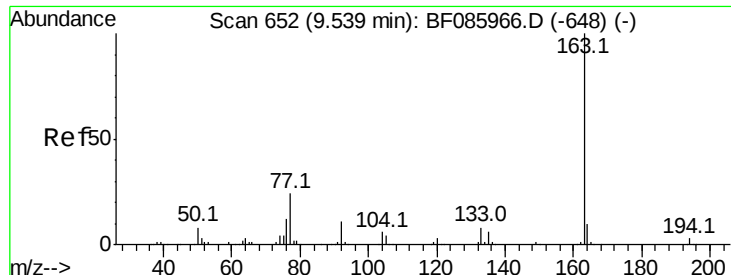
Delta R.T. -0.03 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Tgt Ion:	154	Resp:	874783
Ion Ratio	Lower	Upper	
154	100		
153	40.6	20.8	60.8
76	8.6	0.0	36.7





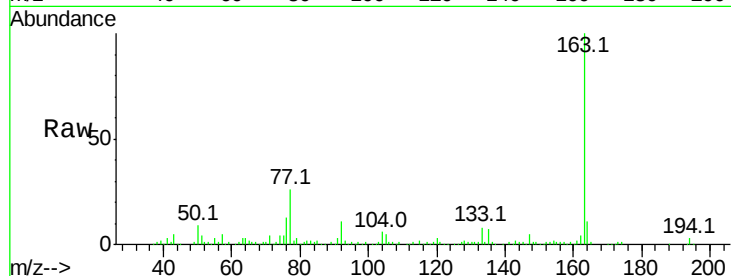
#49
Dimethylphthalate
Concen: 12.69 ng
RT: 9.50 min Scan# 649
Delta R.T. -0.03 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0

Tot Ion	Ratio	Resp	Lower	Upper
163	100	158640		
194	3.0	2.9	4.3	
164	10.9	8.3	12.5	

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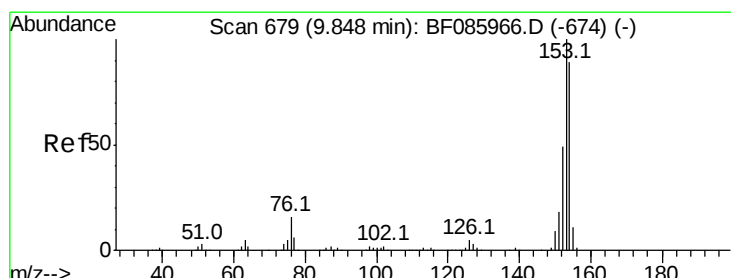
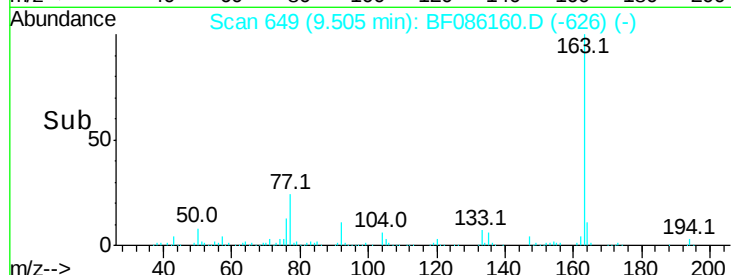
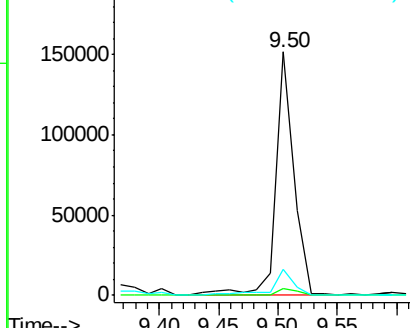


Abundance

Ion 163.00 (162.70 to 163.70): E

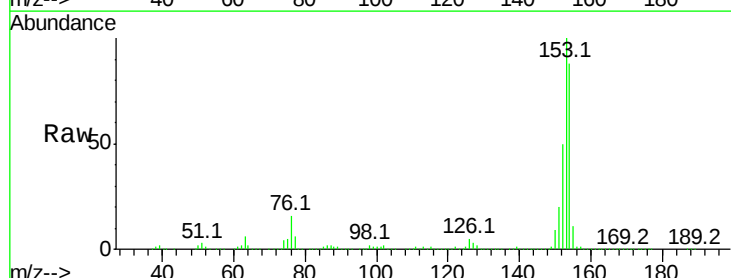
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 271.13 ng
RT: 9.84 min Scan# 678
Delta R.T. -0.01 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	2722447		
153	113.5	90.1	135.1	
152	56.6	44.2	66.2	

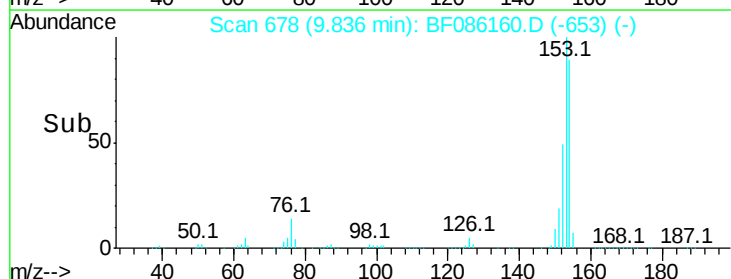
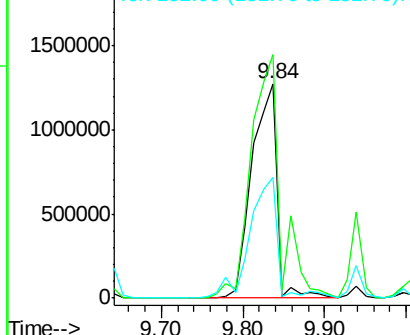


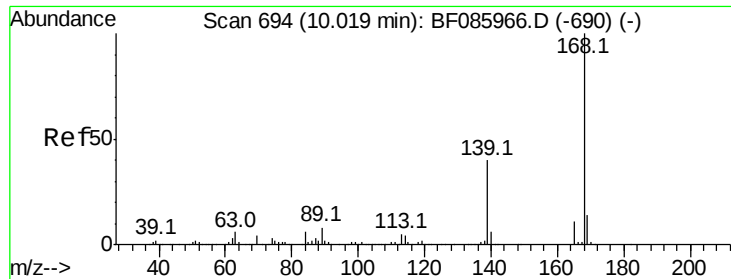
Abundance

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





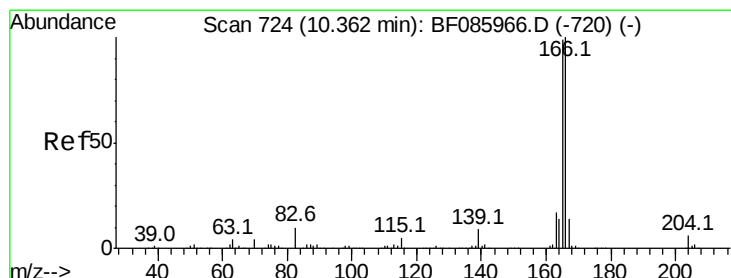
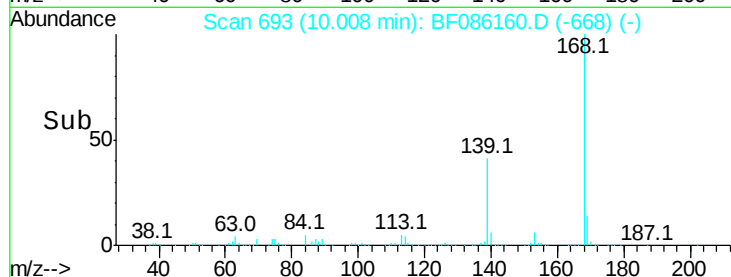
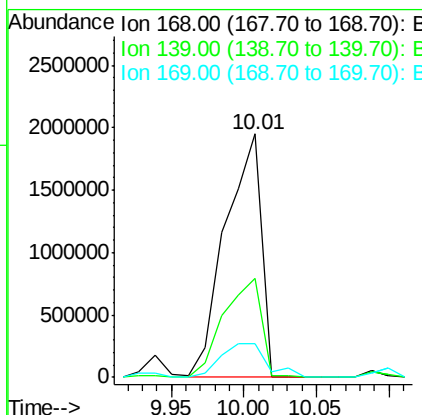
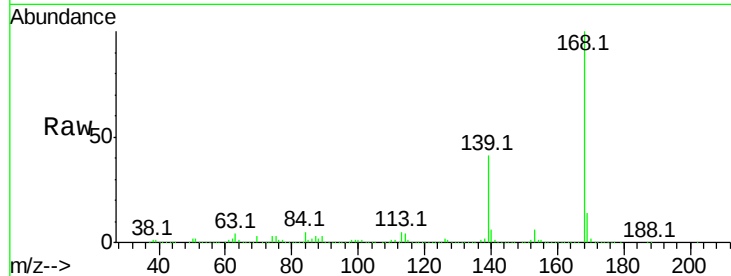
#54
Dibenzenofuran
Concen: 252.06 ng
RT: 10.01 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.9	31.9	47.9
169	14.0	11.0	16.6

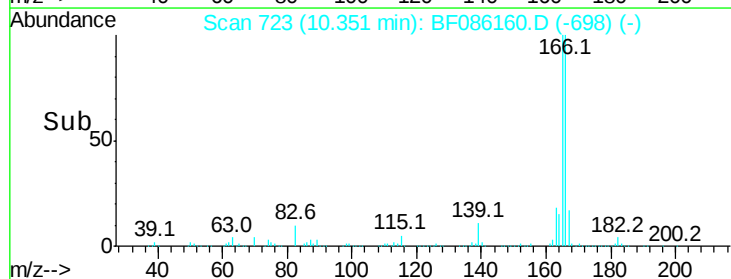
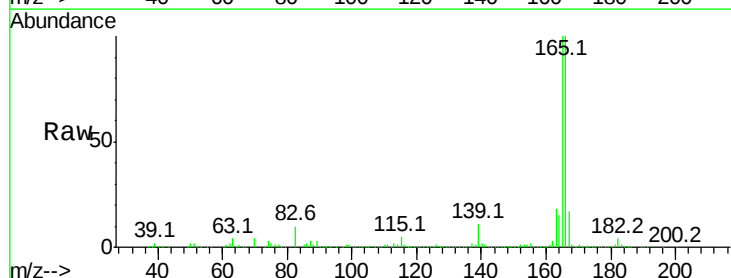
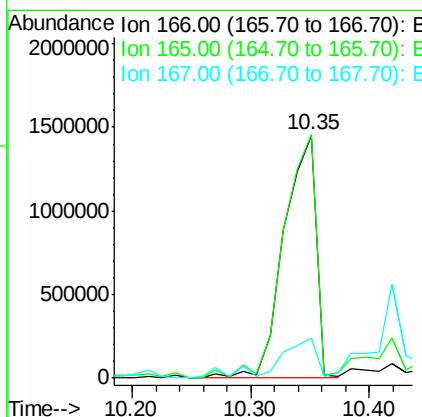
Manual Integrations
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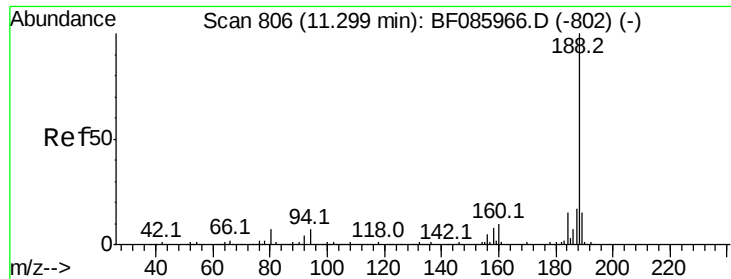
Sohil
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#57
Fluorene
Concen: 237.50 ng
RT: 10.35 min Scan# 723
Delta R.T. -0.01 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.4	119.0
167	16.7	11.0	16.4#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.28 min Scan# 804

Delta R.T. -0.02 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

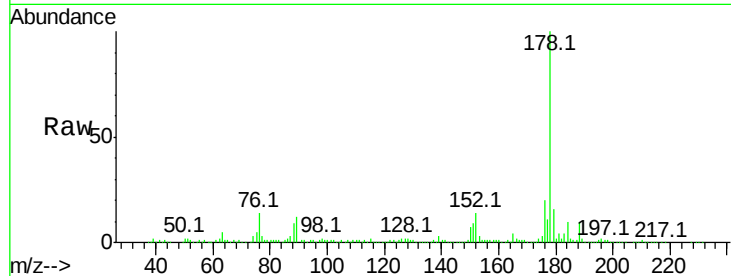
ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:	188	Resp:	133746
Ion Ratio	Lower	Upper	
188	100		
94	12.0	5.4	8.0#
80	12.4	5.5	8.3#

Manual Integrations
APPROVED

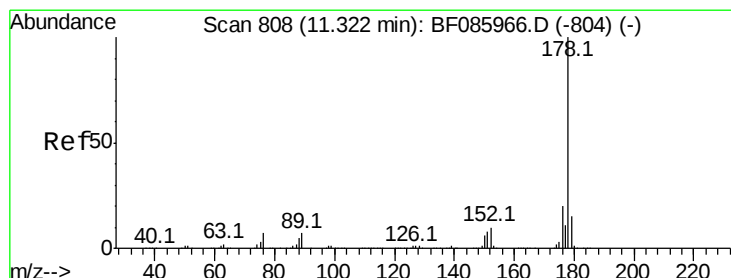
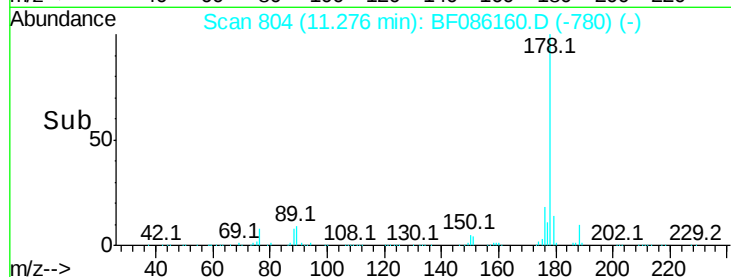
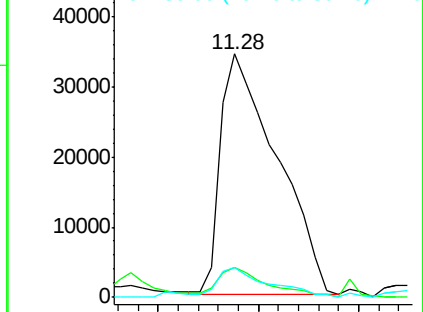
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 2719.25 ng m

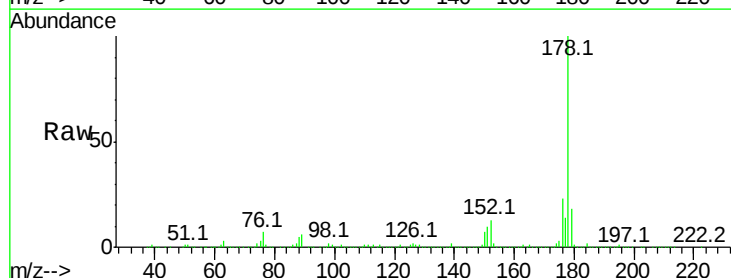
RT: 11.38 min Scan# 813

Delta R.T. 0.06 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

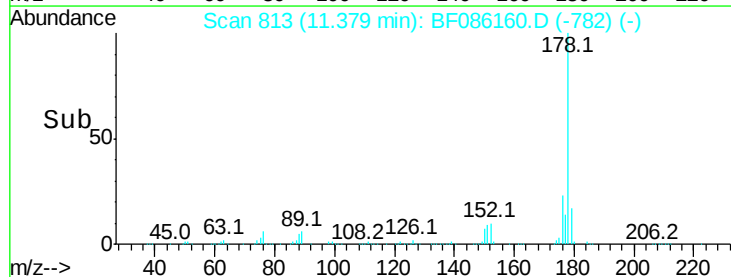
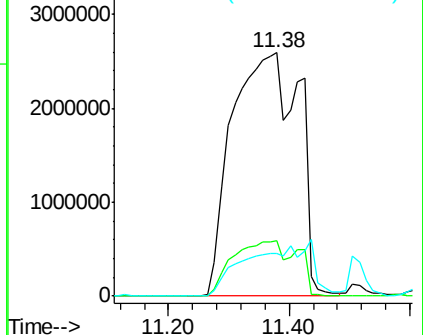
Tgt Ion:	178	Resp:	19840813
Ion Ratio	Lower	Upper	
178	100		
176	22.9	16.3	24.5
179	17.8	12.6	18.8

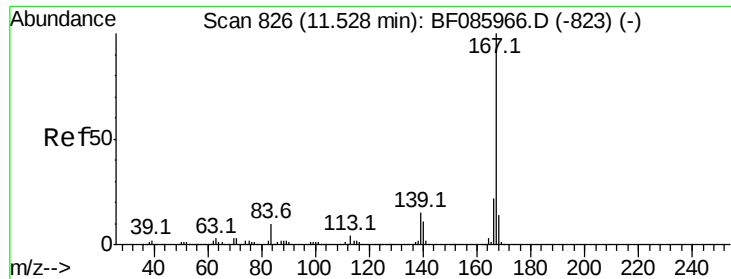


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 398.74 ng

RT: 11.54 min Scan# 827

Delta R.T. 0.01 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:167 Resp: 2619783

Ion Ratio Lower Upper

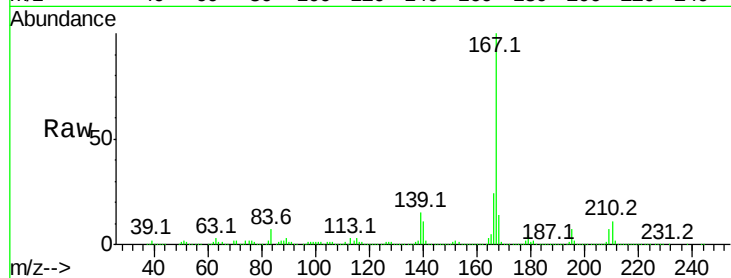
167 100

166 24.0 17.8 26.8

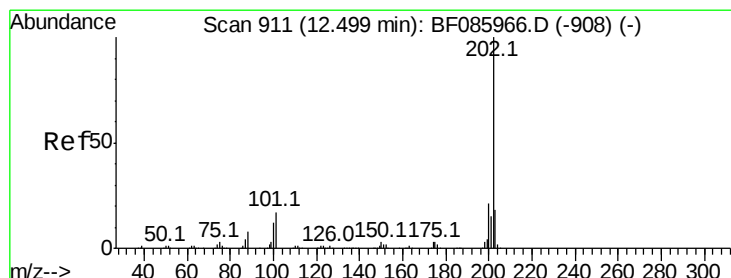
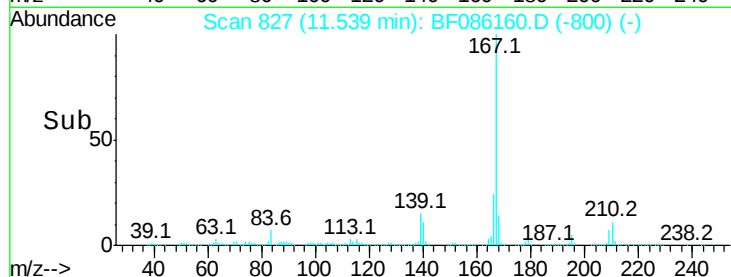
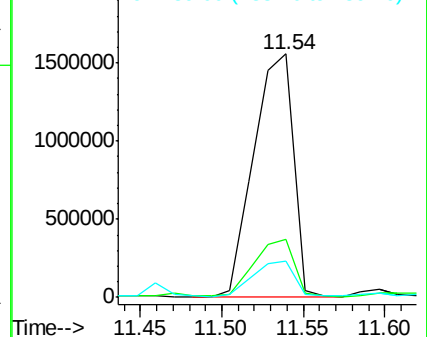
139 15.0 11.6 17.4

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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: 1989.41 ng

RT: 12.58 min Scan# 918

Delta R.T. 0.08 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

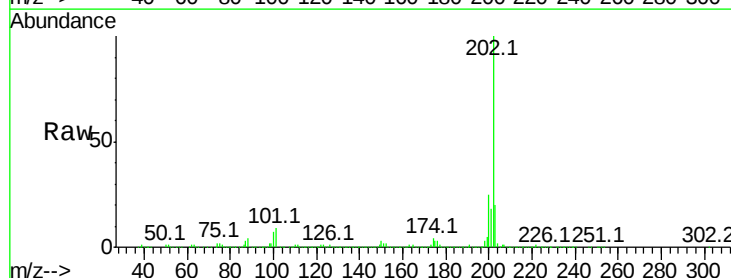
Tgt Ion:202 Resp:15097788

Ion Ratio Lower Upper

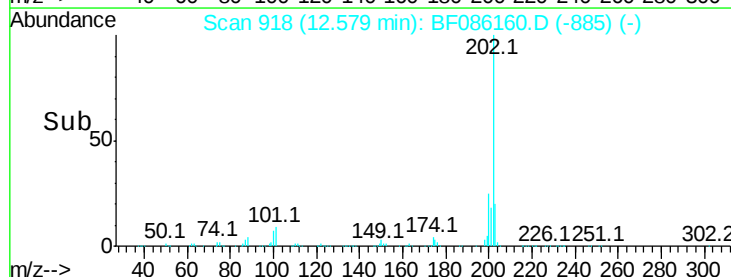
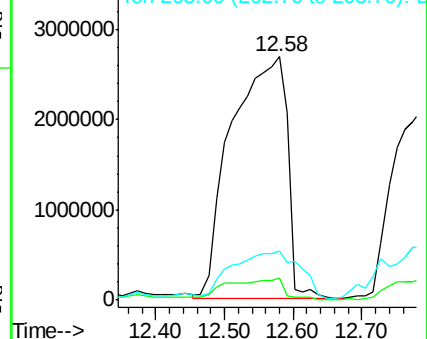
202 100

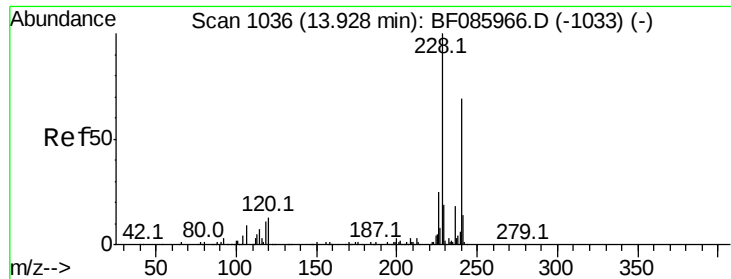
101 8.9 0.0 36.6

203 19.9 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: 20.00 ng m

RT: 14.00 min Scan# 1042

Delta R.T. 0.07 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

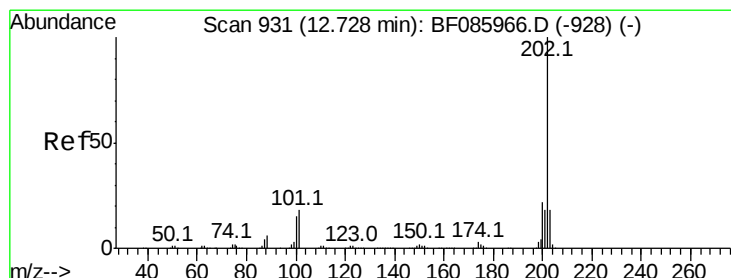
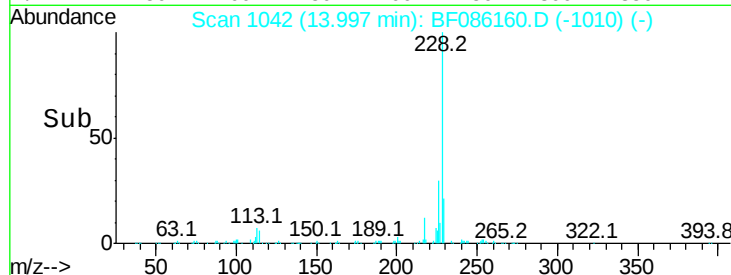
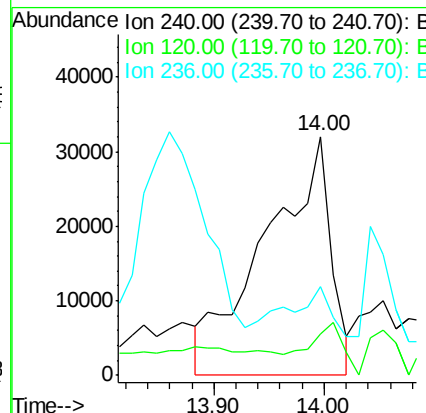
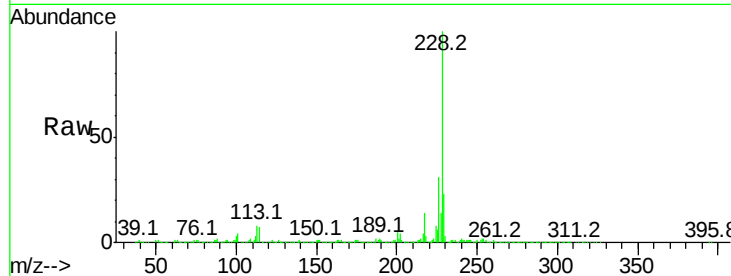
ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:	240	Resp:	131723
Ion Ratio	Lower	Upper	
240	100		
120	17.2	13.8	20.8
236	37.4	20.6	30.8#

Manual Integrations
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#77

Pyrene

Concen: 1407.88 ng m

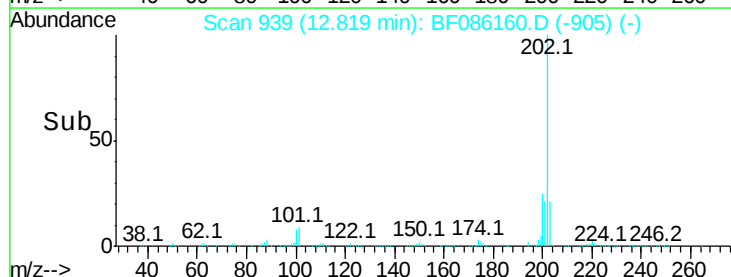
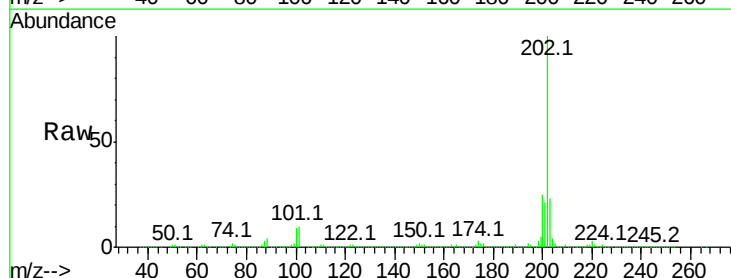
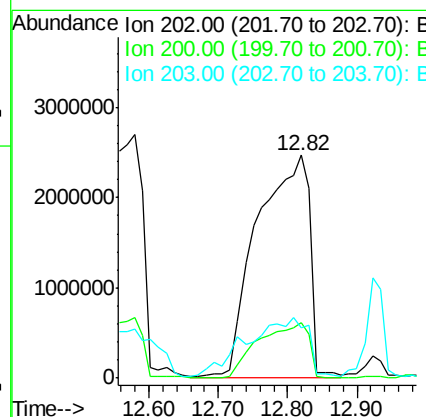
RT: 12.82 min Scan# 939

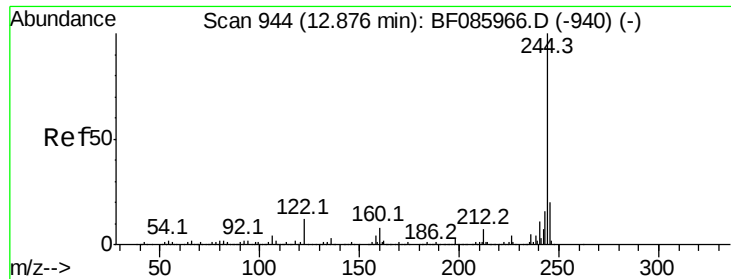
Delta R.T. 0.09 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Tgt Ion:	202	Resp:	13068415
Ion Ratio	Lower	Upper	
202	100		
200	25.0	17.6	26.4
203	22.6	14.0	21.0#





#78

Terphenyl-d14

Concen: 64.86 ng

RT: 12.89 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

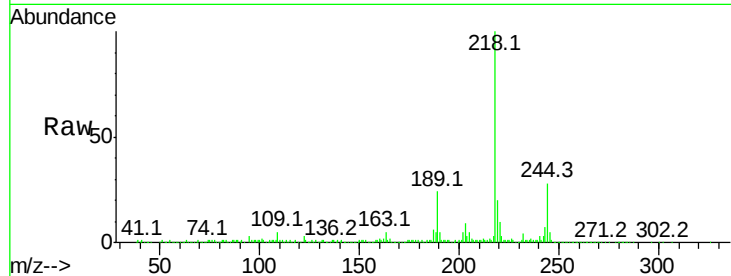
ClientSampleId :

PEDBR-SB4-0-6.0

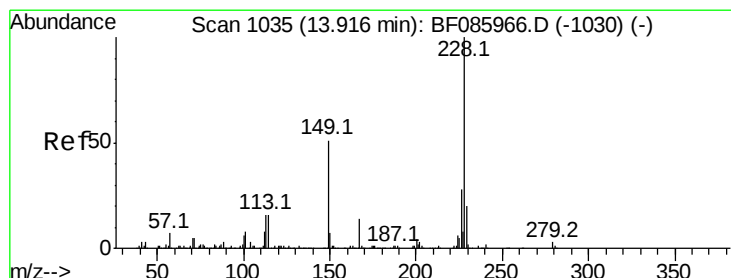
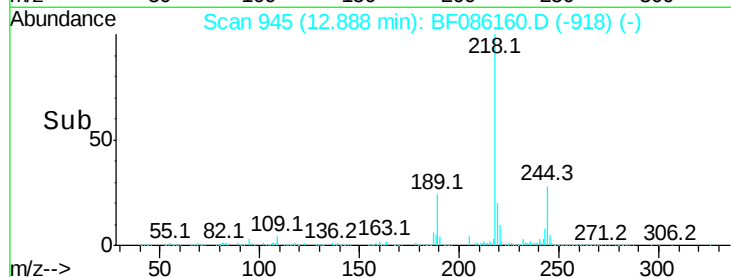
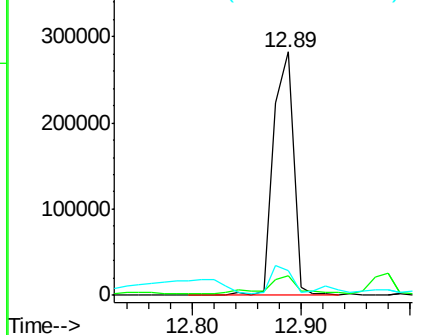
Tot Ion:	244	Resp:	363461
Ion Ratio	Lower	Upper	
244	100		
212	8.2	6.1	9.1
122	10.1	10.2	15.4#

Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 1335.85 ng m

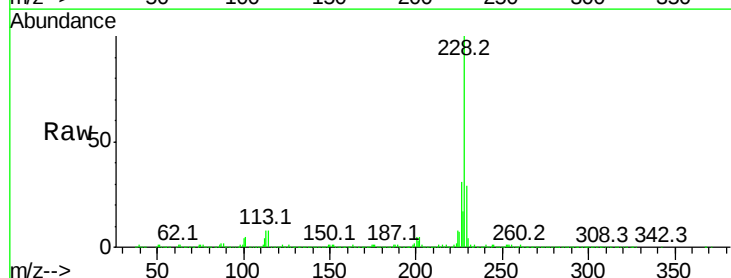
RT: 13.99 min Scan# 1041

Delta R.T. 0.07 min

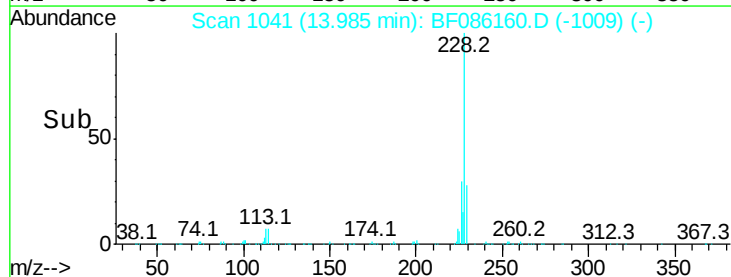
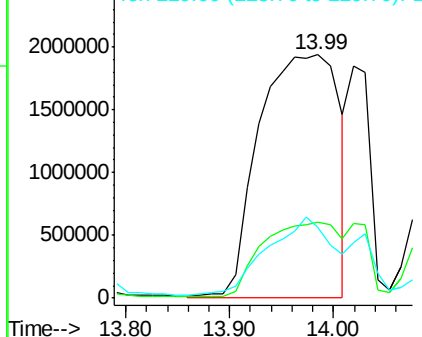
Lab File: BF086160.D

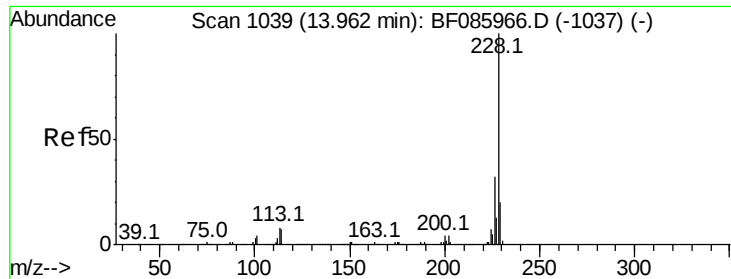
Acq: 8 Apr 2016 5:35

Tgt Ion:	228	Resp:	10372314
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.1	33.1
229	29.3	16.2	24.4#



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





#82

Chrysene

Concen: 353.38 ng/mL

RT: 14.02 min Scan# 1044

Delta R.T. 0.06 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

ClientSampleID :

PEDBR-SB4-0-6.0

Tot Ion:228 Resp: 2643023

Ion Ratio Lower Upper

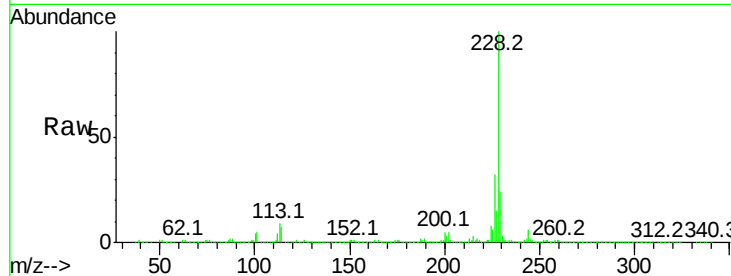
228 100

226 32.4 25.0 37.6

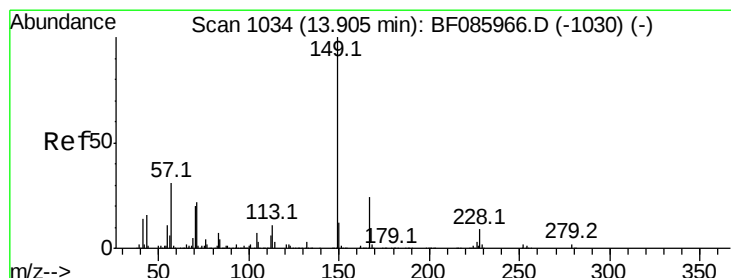
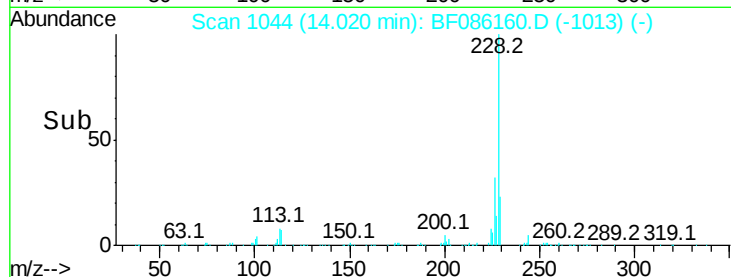
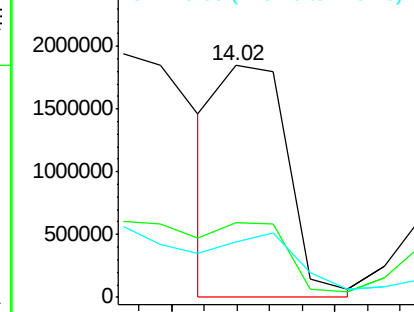
229 24.1 15.7 23.5#

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



#83

Bis(2-ethylhexyl)phthalate

Concen: 10.93 ng/mL

RT: 13.93 min Scan# 1036

Delta R.T. 0.02 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

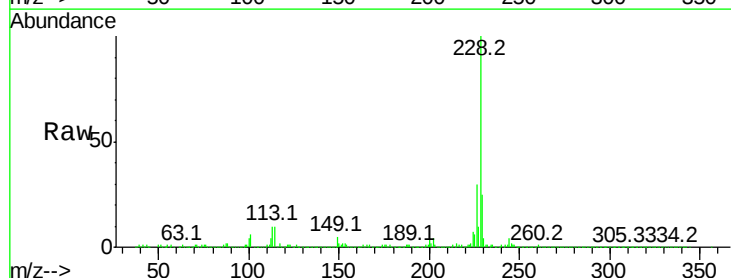
Tgt Ion:149 Resp: 60617

Ion Ratio Lower Upper

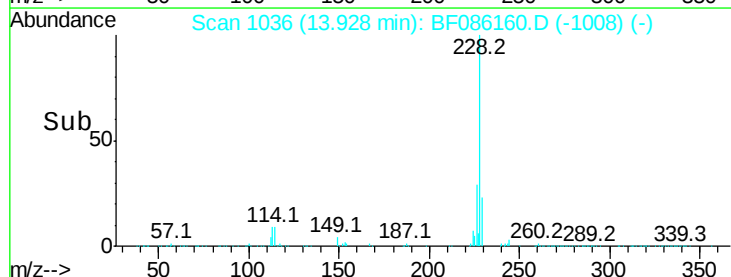
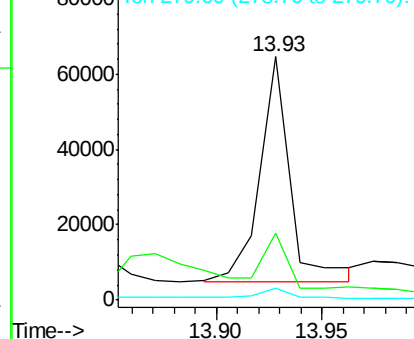
149 100

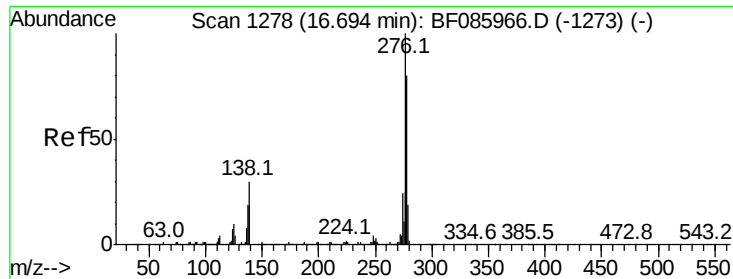
167 27.8 19.4 29.2

279 5.0 1.5 2.3#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 774.41 ng m

RT: 16.82 min Scan# 1289

Delta R.T. 0.13 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:276 Resp: 4699352

Ion Ratio Lower Upper

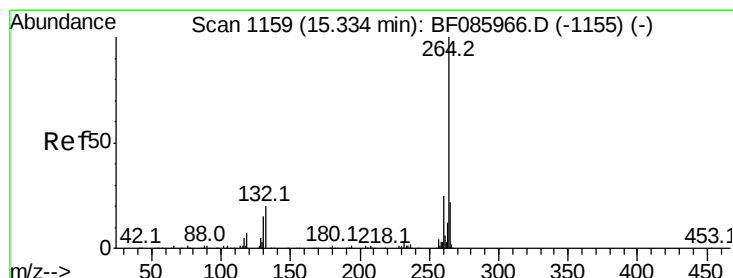
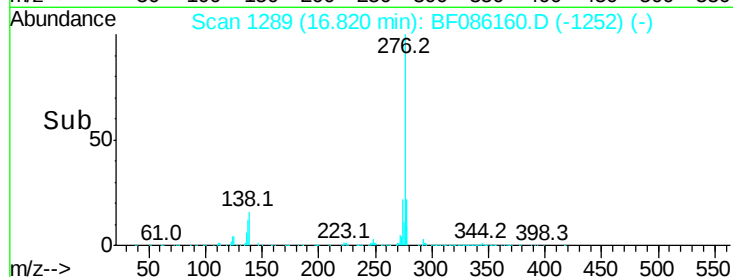
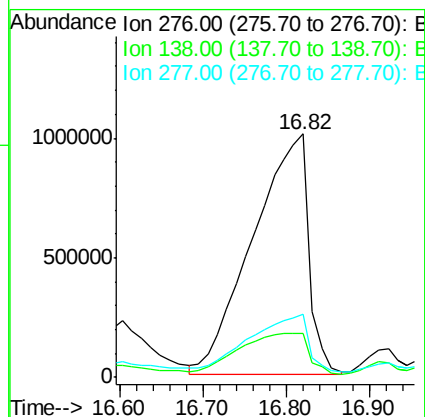
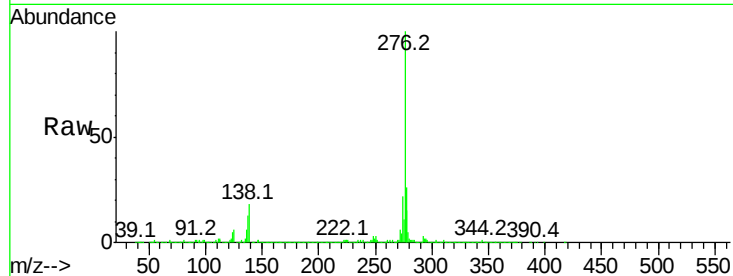
276 100

138 6.3 24.2 36.4#

277 1.5 20.0 30.0#

Manual Integrations
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#86

Perylene-d12

Concen: 20.00 ng m

RT: 15.40 min Scan# 1165

Delta R.T. 0.07 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

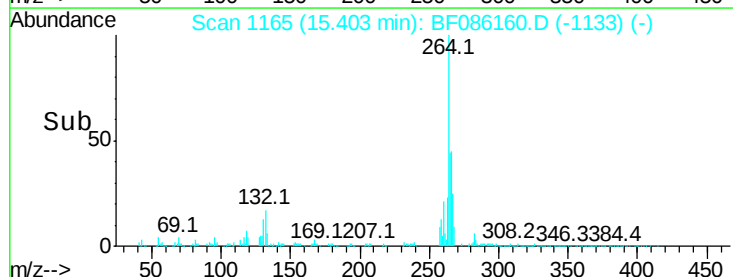
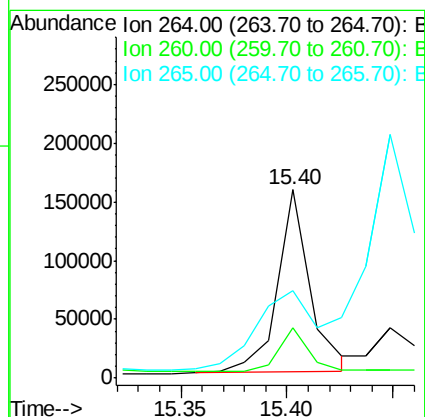
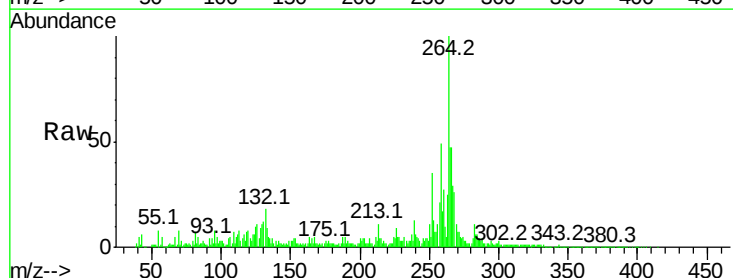
Tgt Ion:264 Resp: 164787

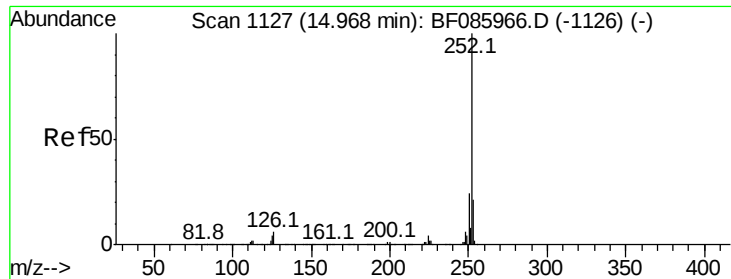
Ion Ratio Lower Upper

264 100

260 26.6 19.4 29.2

265 46.5 17.2 25.8#





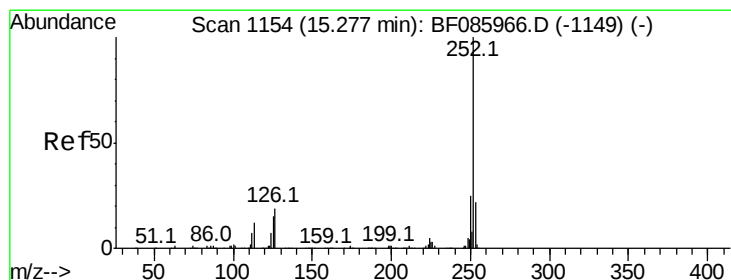
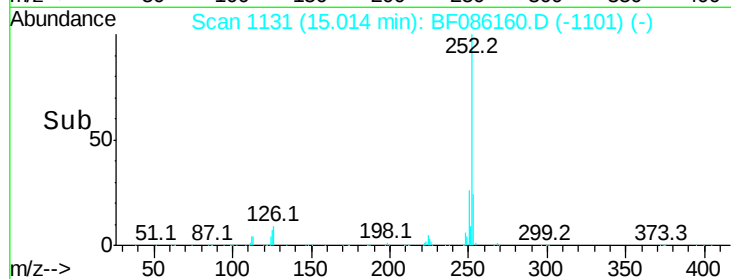
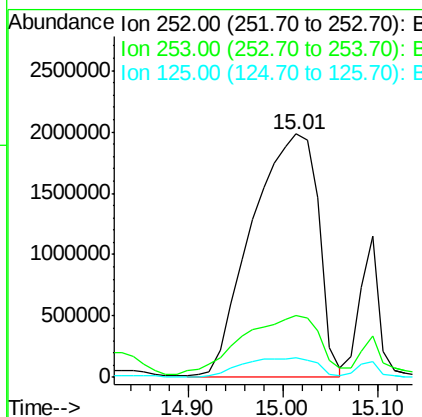
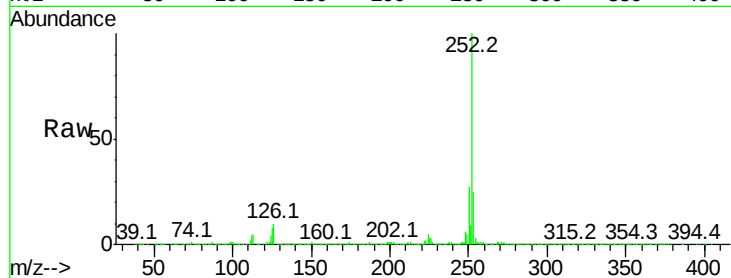
#88
Benzo(k)fluoranthene
Concen: 1047.80 ng m
RT: 15.01 min Scan# 1131
Delta R.T. 0.05 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0

Tot Ion:252 Resp: 9618348
Ion Ratio Lower Upper
252 100
253 25.2 17.8 26.6
125 7.9 7.7 11.5

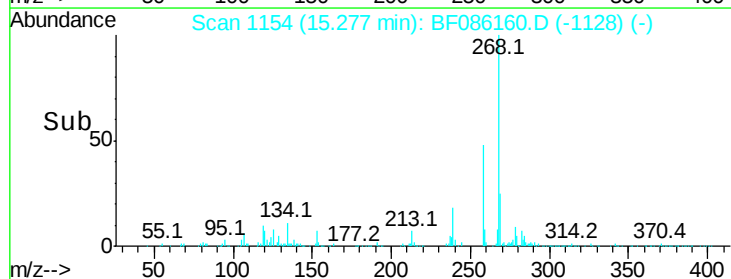
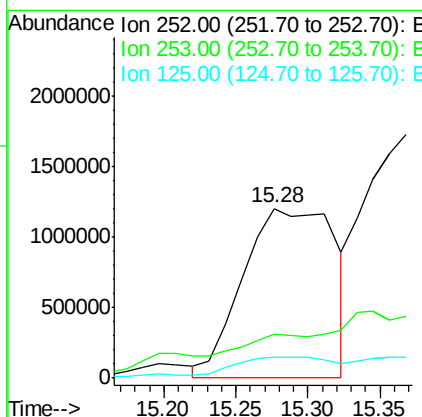
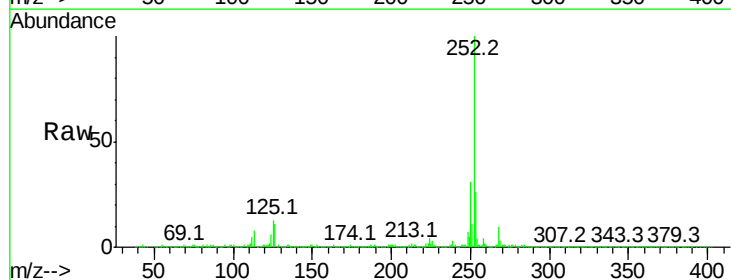
Manual Integrations
APPROVED

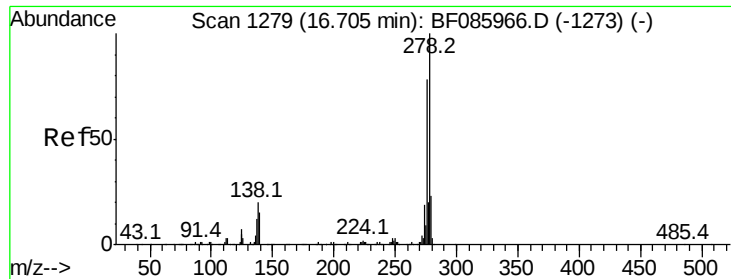
Sohil
4/8/2016 6:09:34 PM



#89
Benzo(a)pyrene
Concen: 581.84 ng m
RT: 15.28 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF086160.D
Acq: 8 Apr 2016 5:35

Tgt Ion:252 Resp: 5343959
Ion Ratio Lower Upper
252 100
253 25.7 17.4 26.0
125 12.7 10.3 15.5





#90

Dibenzo(a,h)anthracene

Concen: 218.75 ng m

RT: 16.76 min Scan# 1284

Delta R.T. 0.06 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0

Tot Ion:278 Resp: 1616461

Ion Ratio Lower Upper

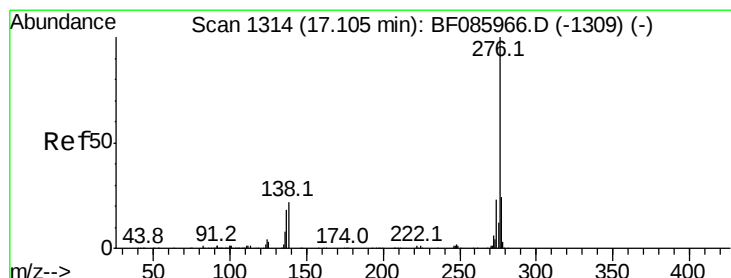
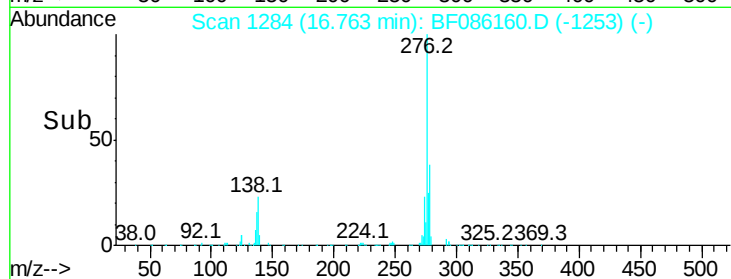
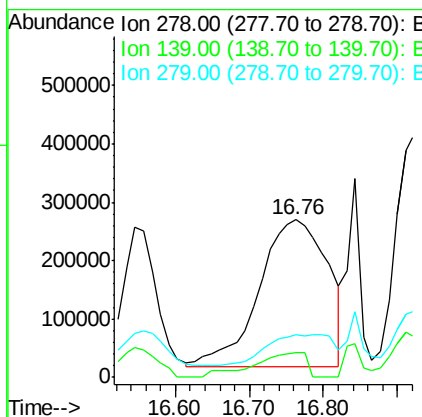
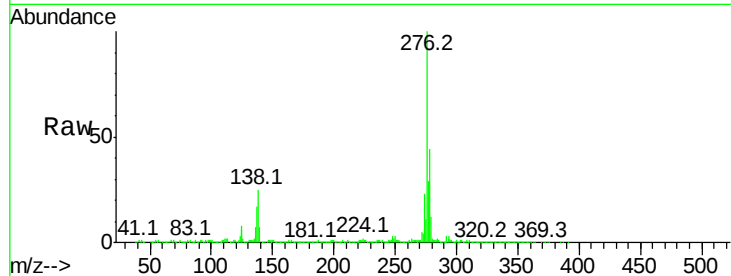
278 100

139 15.7 14.4 21.6

279 27.0 19.1 28.7

Manual Integrations
APPROVED

Sohil
4/8/2016 6:09:34 PM



#91

Benzo(g,h,i)perylene

Concen: 622.29 ng m

RT: 17.24 min Scan# 1326

Delta R.T. 0.14 min

Lab File: BF086160.D

Acq: 8 Apr 2016 5:35

Tgt Ion:276 Resp: 4450217

Ion Ratio Lower Upper

276 100

277 26.7 18.8 28.2

138 22.0 22.6 34.0#

