

Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\
 Data File : BF082384.D
 Acq On : 20 Oct 2015 5:59
 Operator : UM/IZ
 Sample : G4051-09DL 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

Manual Integrations
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MMdadoda
 10/20/2015 6:26:05 PM

Quant Time: Oct 20 12:24:59 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 01:46:21 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	96504	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	379000	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	187766	20.00	ng	-0.03
63) Phenanthrene-d10	11.34	188	317965	20.00	ng	-0.03
75) Chrysene-d12	14.00	240	243236	20.00	ng	-0.01
86) Perylene-d12	15.46	264	234828	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	39872	8.34	ng	-0.03
7) Phenol-d6	6.45	99	54407	8.74	ng	-0.03
23) Nitrobenzene-d5	7.37	82	29512	5.23	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	28283	16.06	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	96317	8.51	ng	-0.05
78) Terphenyl-d14	12.93	244	147600	16.08	ng	-0.03
Target Compounds						Qvalue
48) Acenaphthylene	9.71	152	47828	2.72	ng	98
49) Dimethylphthalate	9.57	163	32936	2.49	ng	99
57) Fluorene	10.40	166	38579	3.25	ng	95
70) Phenanthrene	11.36	178	467917	30.02	ng	99
71) Anthracene	11.42	178	121192	7.55	ng	98
72) Carbazole	11.58	167	41621	2.84	ng	98
74) Fluoranthene	12.56	202	555283	33.17	ng	96
77) Pyrene	12.79	202	442285	30.64	ng	98
80) Benzo(a)anthracene	13.99	228	212804	16.81	ng	95
82) Chrysene	14.02	228	190564m	14.29	ng	
85) Indeno(1,2,3-cd)pyrene	16.87	276	101716	9.60	ng	96
87) Benzo(b)fluoranthene	15.05	252	234255m	16.40	ng	
88) Benzo(k)fluoranthene	15.08	252	86962m	7.24	ng	
89) Benzo(a)pyrene	15.41	252	171642m	13.98	ng	
90) Dibenzo(a,h)anthracene	16.88	278	23974m	2.38	ng	
91) Benzo(g,h,i)perylene	17.30	276	94032	9.62	ng	98

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

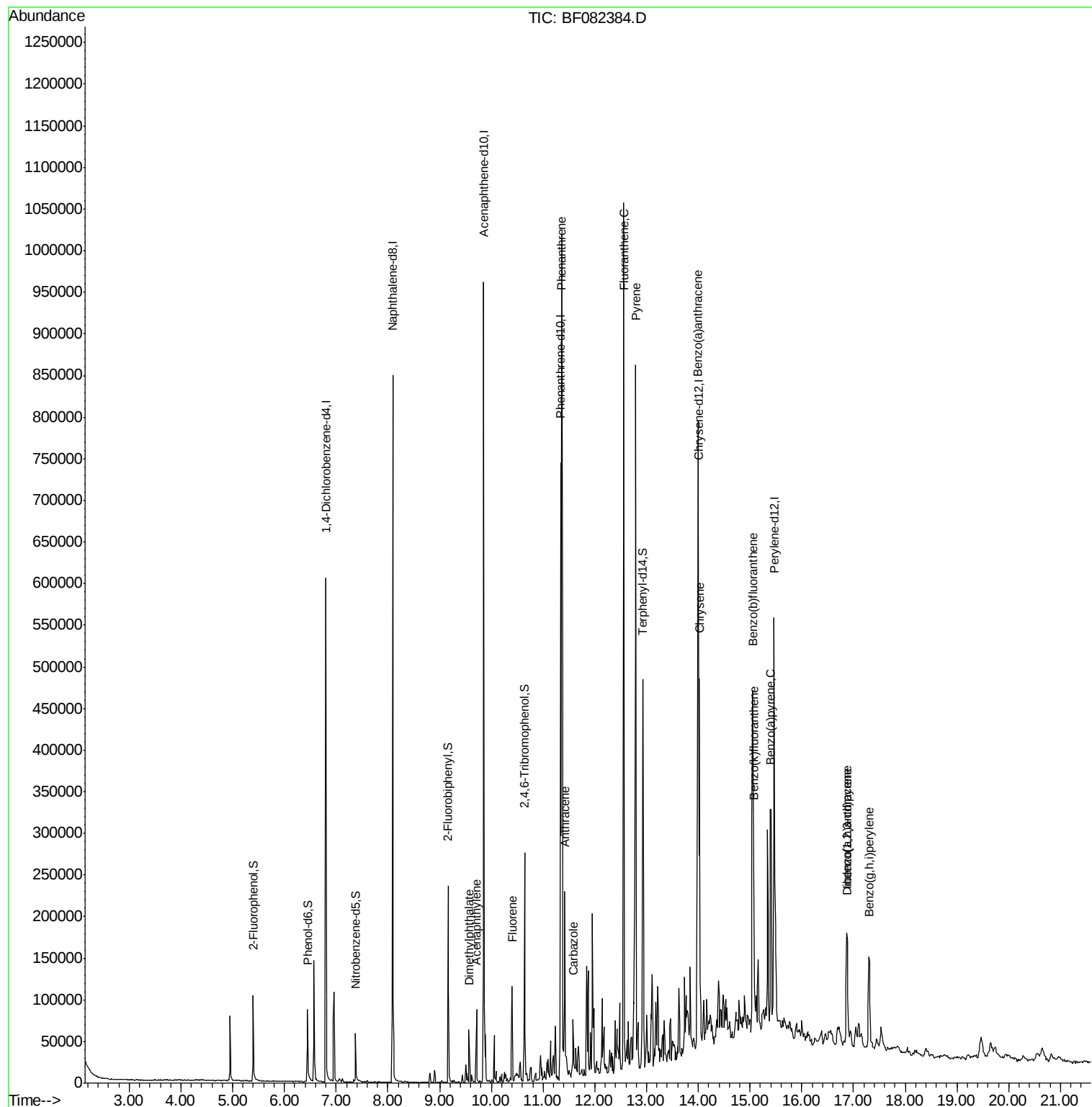
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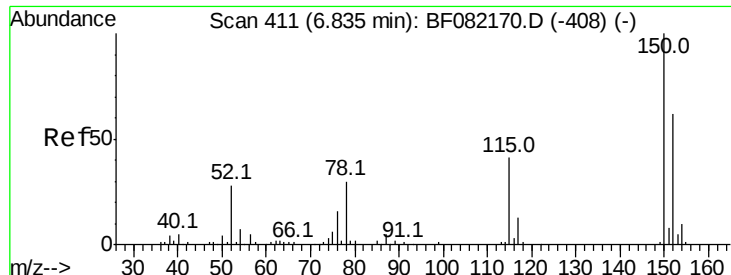
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 408

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

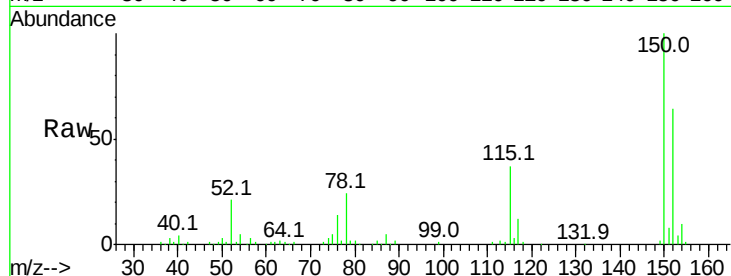
ClientSampleId :

TK1-5-20151015DL

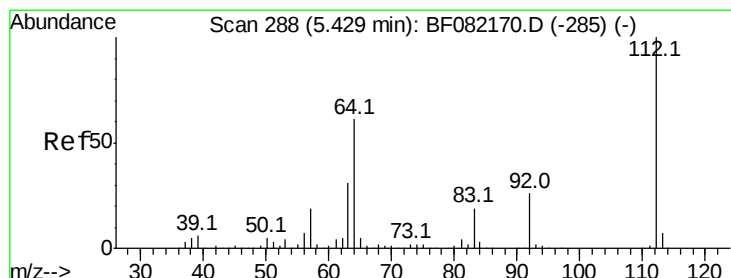
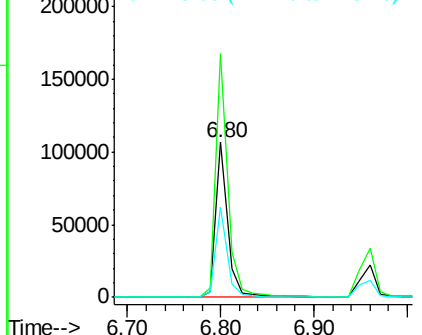
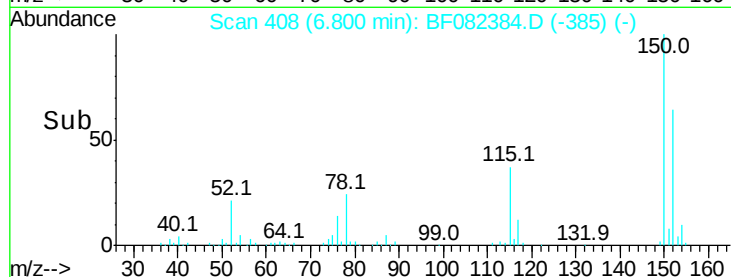
Tot Ion:	152	Resp:	96504
Ion Ratio	Lower	Upper	
152	100		
150	157.1	129.0	193.4
115	57.9	52.1	78.1

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 8.34 ng

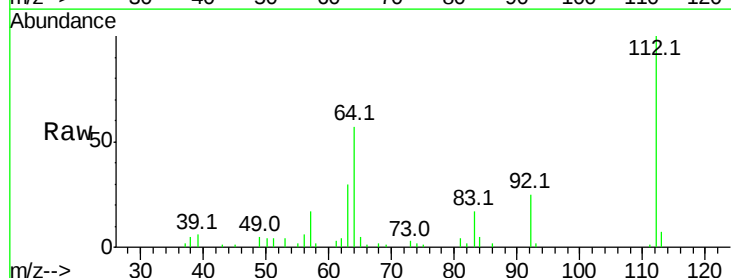
RT: 5.39 min Scan# 285

Delta R.T. -0.03 min

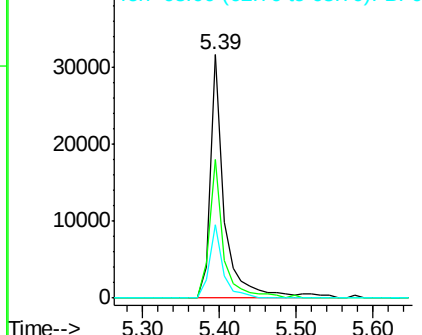
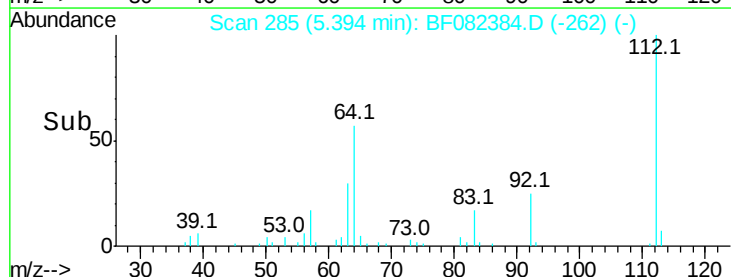
Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Tgt Ion:	112	Resp:	39872
Ion Ratio	Lower	Upper	
112	100		
64	57.0	48.6	73.0
63	29.9	25.1	37.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 8.74 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

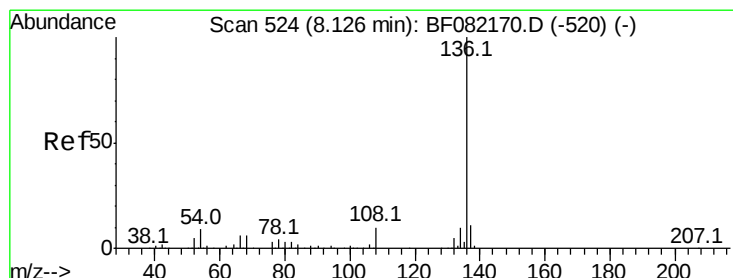
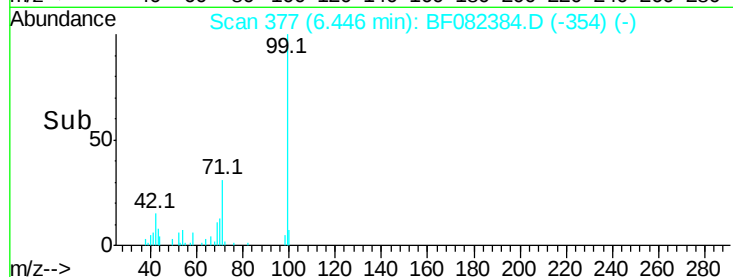
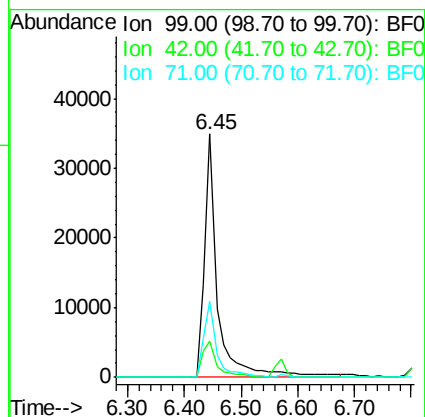
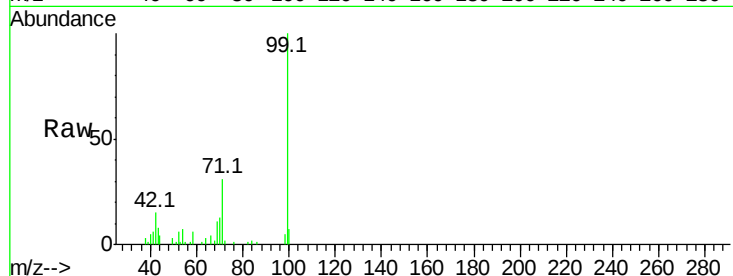
ClientSampleId :

TK1-5-20151015DL

Tot Ion:	99	Resp:	54407
Ion Ratio	Lower	Upper	
99	100		
42	14.6	13.2	19.8
71	30.9	25.6	38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

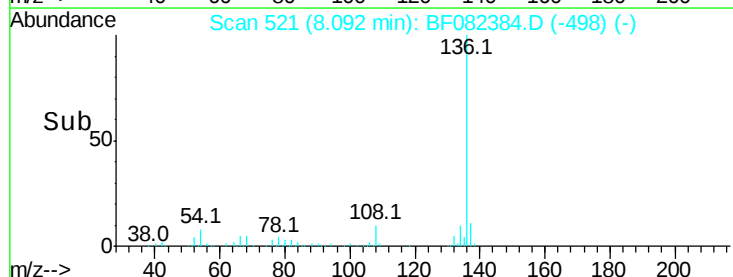
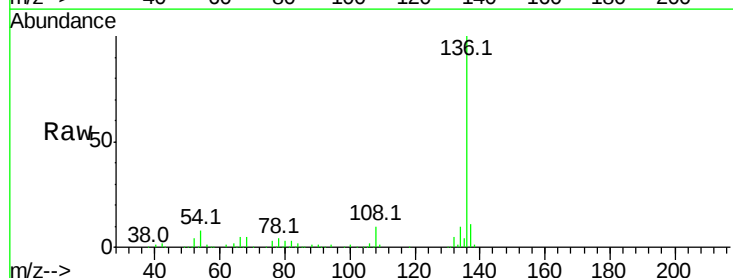
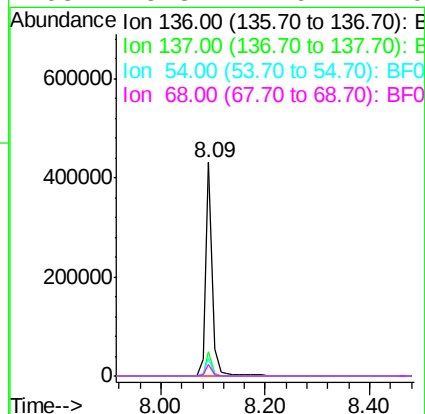
RT: 8.09 min Scan# 521

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Tgt Ion:	136	Resp:	379000
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.0	13.6
54	8.2	7.5	11.3
68	5.3	4.6	7.0





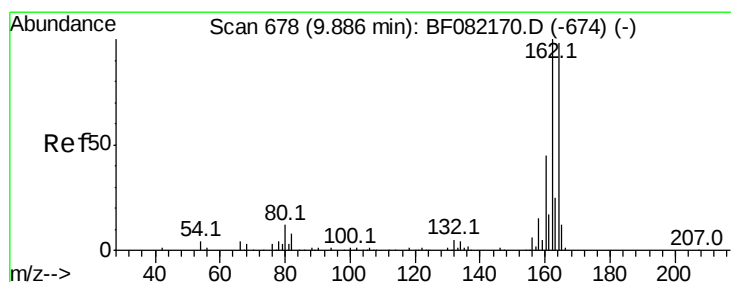
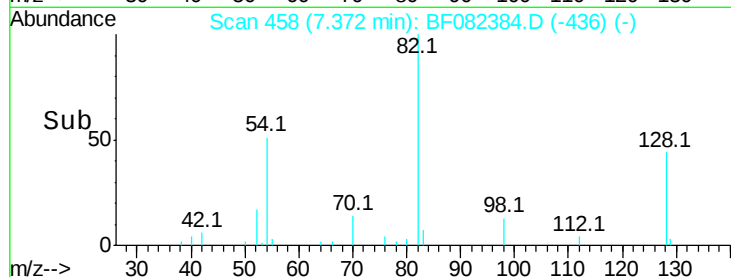
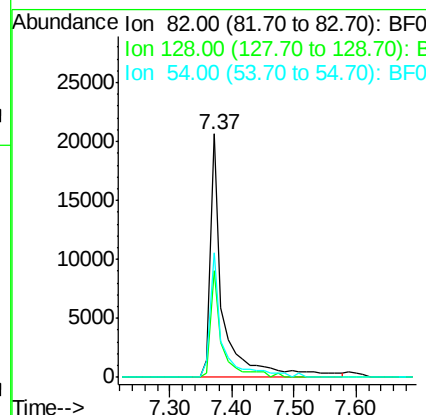
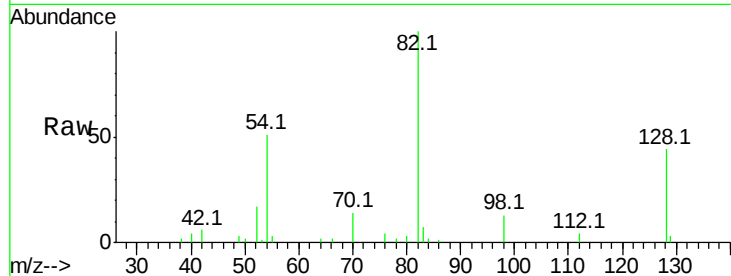
#23
 Nitrobenzene-d5
 Concen: 5.23 ng
 RT: 7.37 min Scan# 458
 Delta R.T. -0.05 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.8	38.7	58.1
54	51.4	40.1	60.1

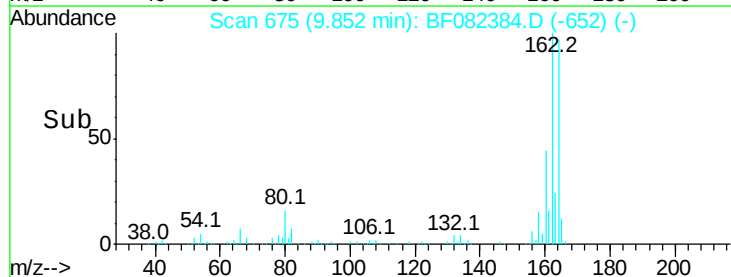
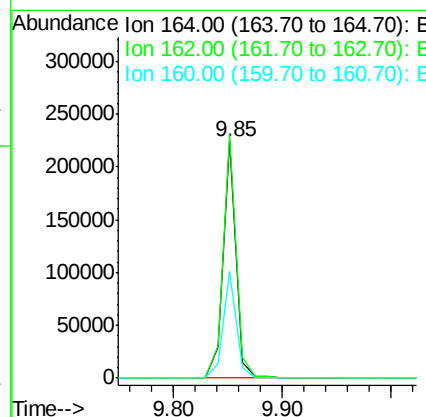
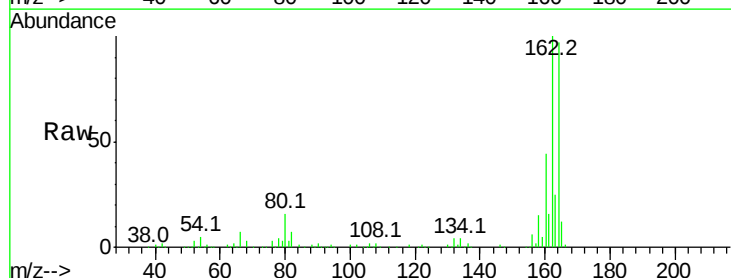
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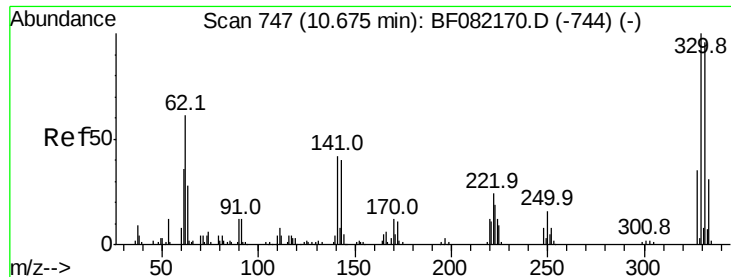
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 675
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	81.6	122.4
160	45.1	36.4	54.6





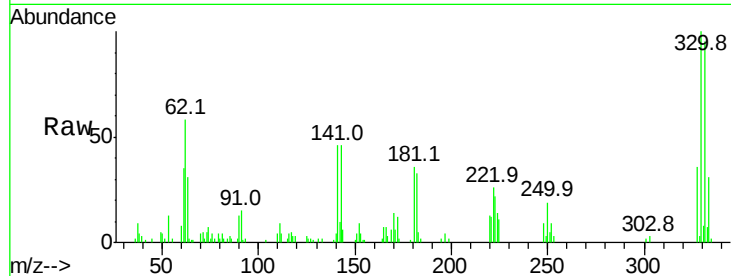
#41
 2,4,6-Tribromophenol
 Concen: 16.06 ng
 RT: 10.64 min Scan# 744
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

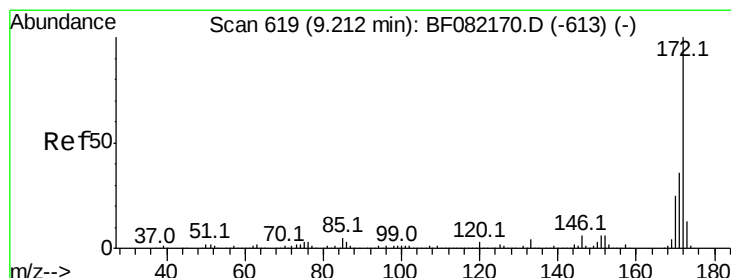
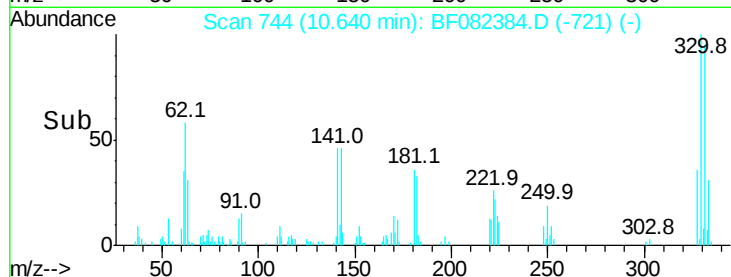
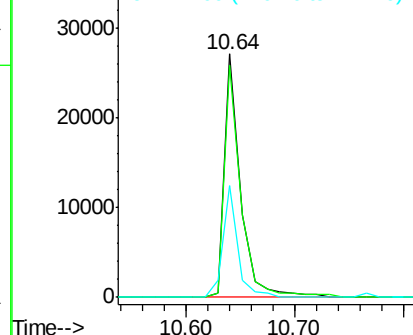
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.8	77.1	115.7	
141	41.9	29.8	44.8	

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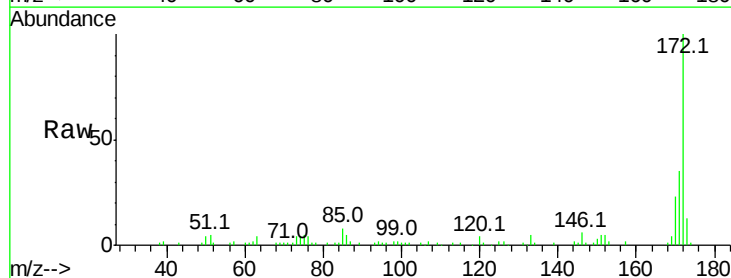


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

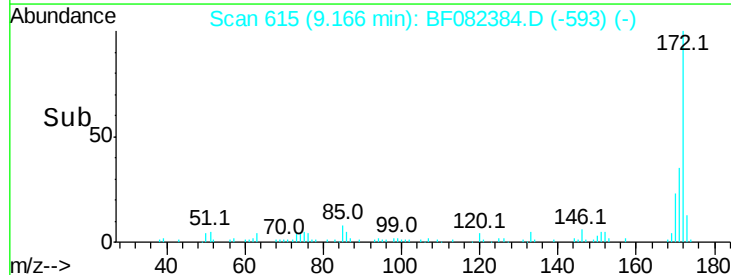
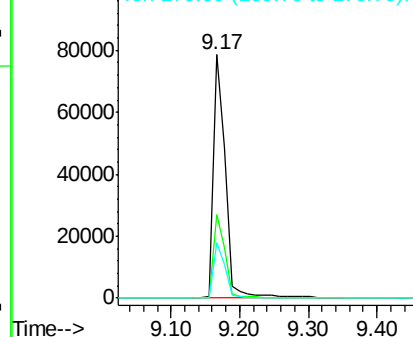


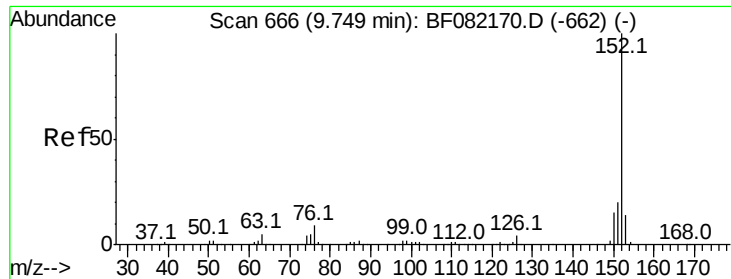
#44
 2-Fluorobiphenyl
 Concen: 8.51 ng
 RT: 9.17 min Scan# 615
 Delta R.T. -0.05 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.6	28.6	42.8	
170	23.0	19.7	29.5	



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





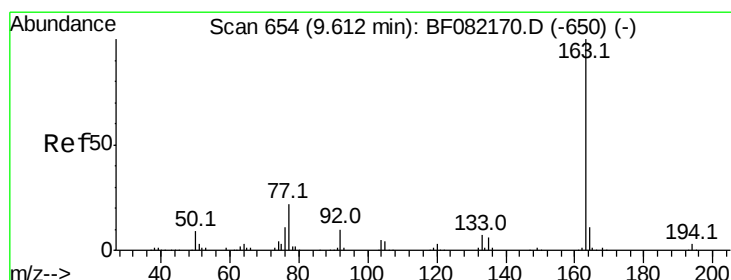
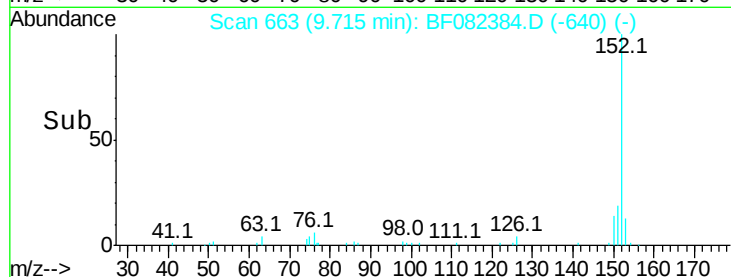
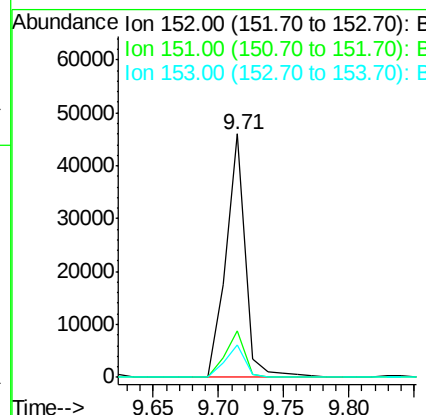
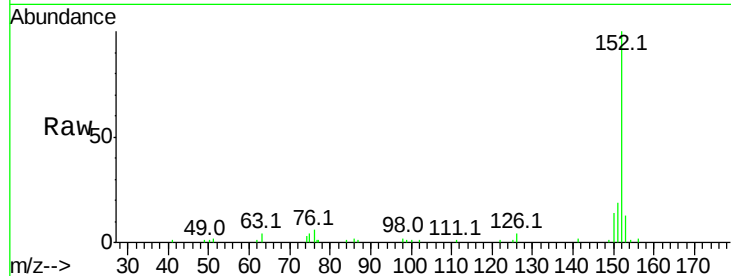
#48
Acenaphthylene
Concen: 2.72 ng
RT: 9.71 min Scan# 663
Delta R.T. -0.03 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	18.9	16.4	24.6
153	13.2	10.8	16.2

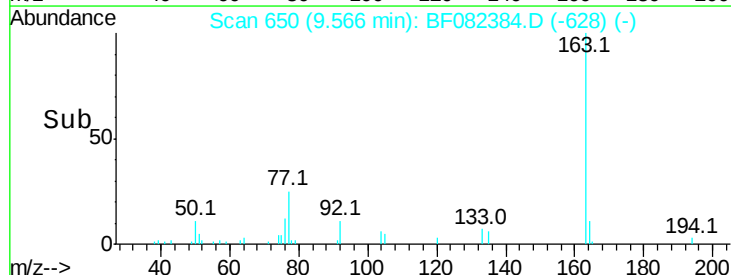
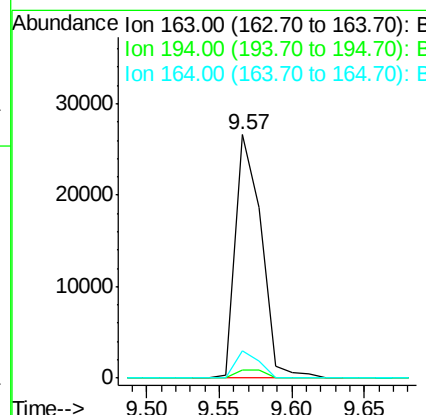
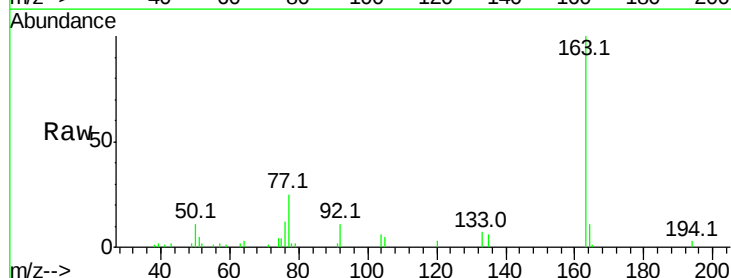
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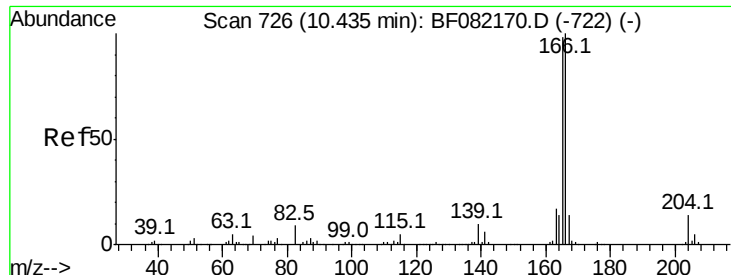
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#49
Dimethylphthalate
Concen: 2.49 ng
RT: 9.57 min Scan# 650
Delta R.T. -0.05 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.6	4.0
164	11.1	8.5	12.7





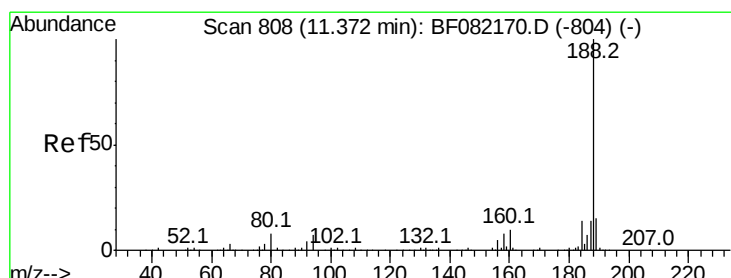
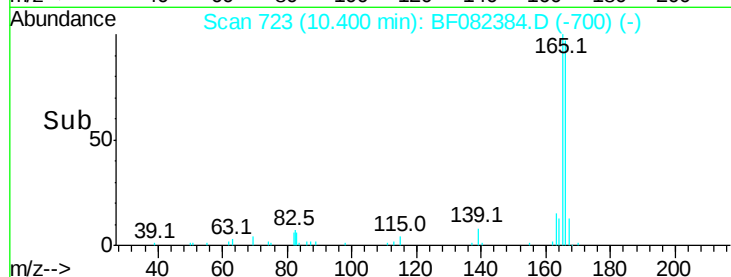
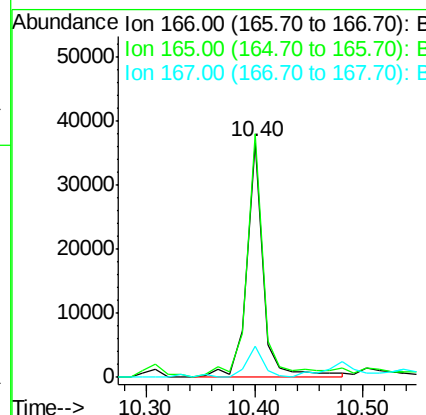
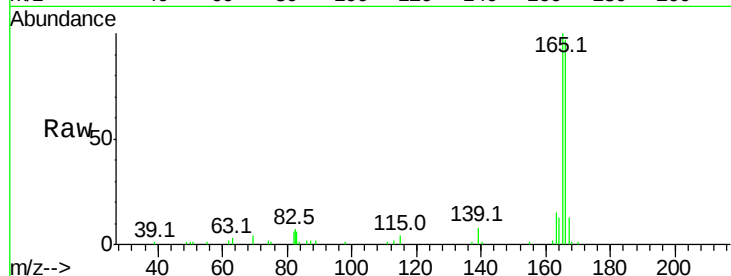
#57
Fluorene
 Concen: 3.25 ng
 RT: 10.40 min Scan# 723
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Instrument :
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 TK1-5-20151015DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	103.5	78.3	117.5
167	13.5	10.8	16.2

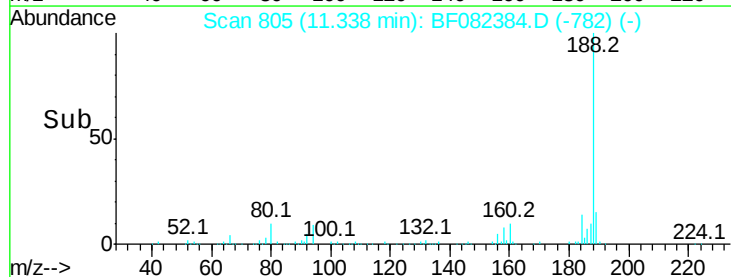
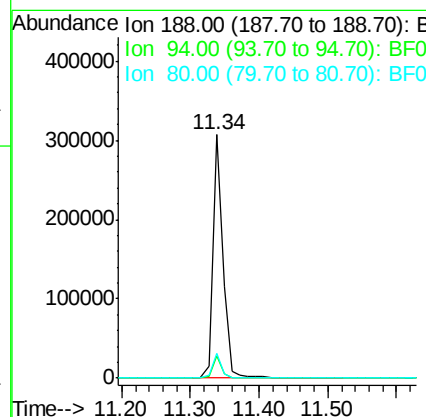
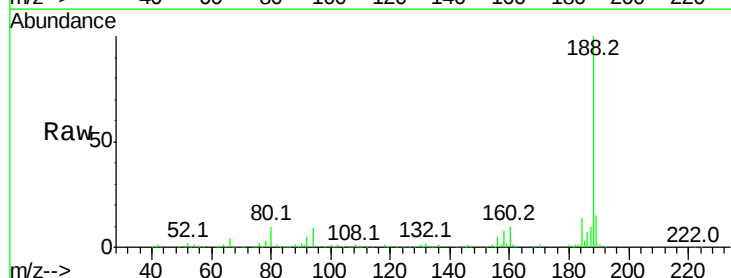
Manual Integrations
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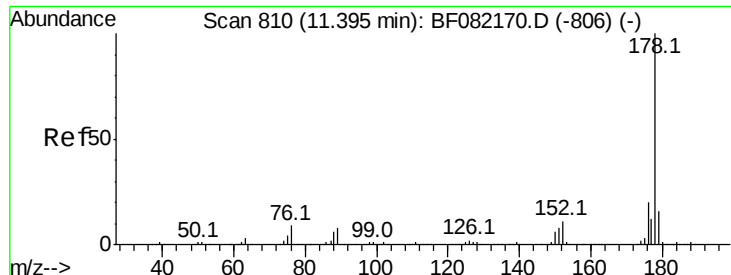
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.34 min Scan# 805
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.2	5.8	8.6#
80	10.1	6.4	9.6#





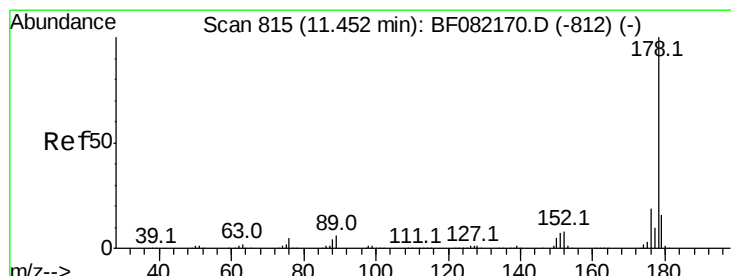
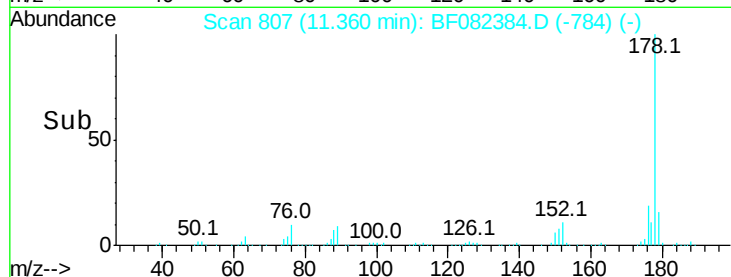
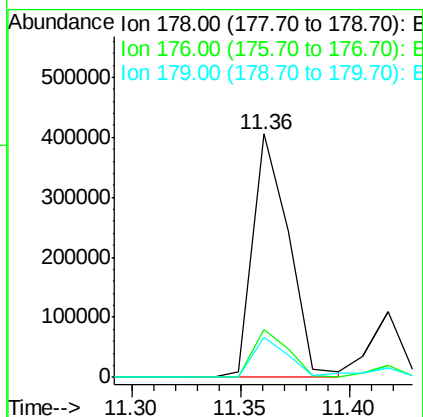
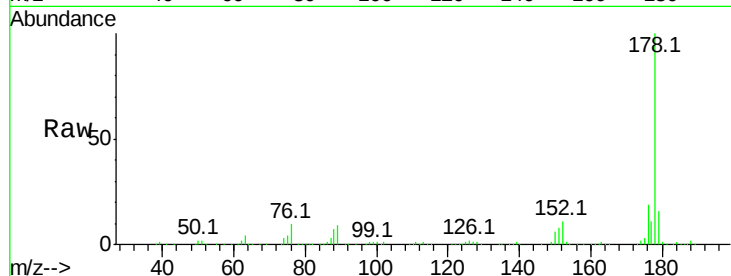
#70
Phenanthrene
Concen: 30.02 ng
RT: 11.36 min Scan# 807
Delta R.T. -0.03 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Instrument :
BNA_F
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TK1-5-20151015DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.0	24.0
179	16.4	12.6	19.0

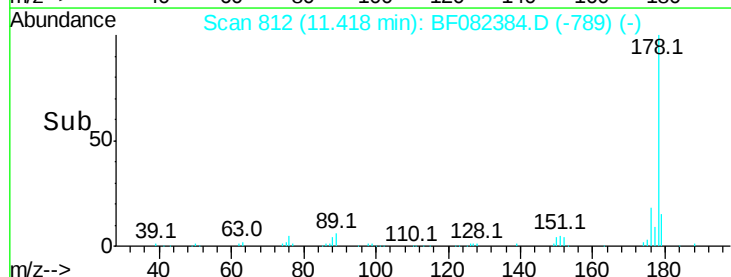
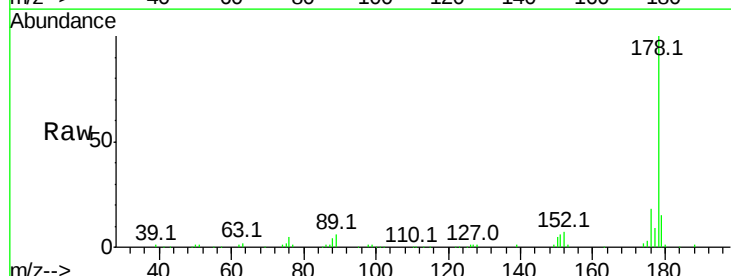
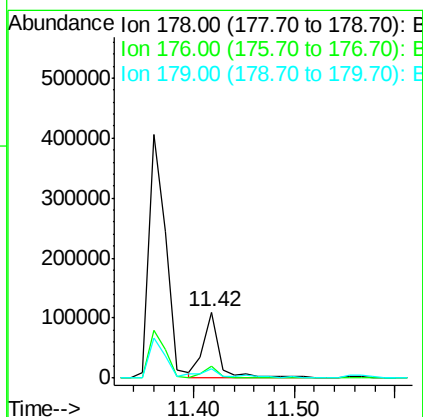
Manual Integrations
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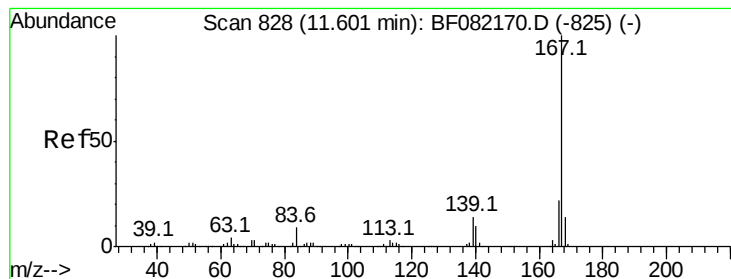
MMdadoda
10/20/2015 6:26:05 PM



#71
Anthracene
Concen: 7.55 ng
RT: 11.42 min Scan# 812
Delta R.T. -0.03 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.0
179	15.0	12.5	18.7





#72

Carbazole

Concen: 2.84 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

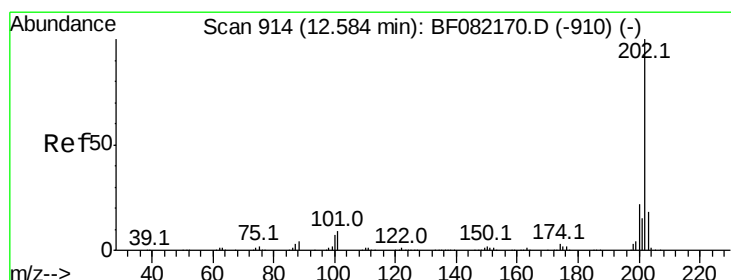
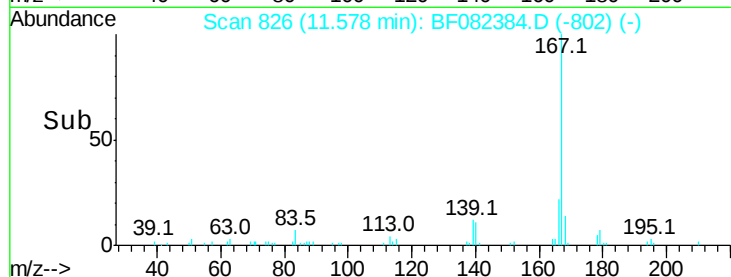
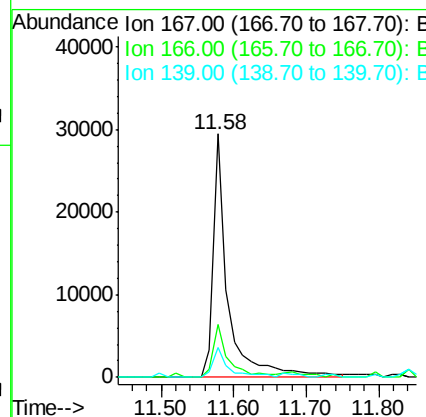
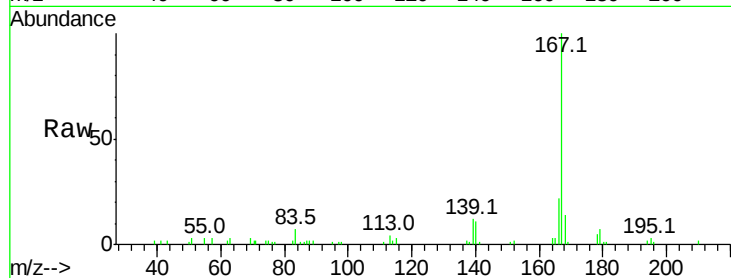
ClientSampleId :

TK1-5-20151015DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.3	25.9
139	12.4	11.2	16.8

Manual Integrations
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#74

Fluoranthene

Concen: 33.17 ng

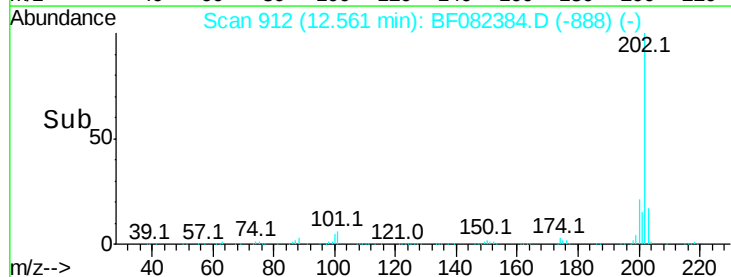
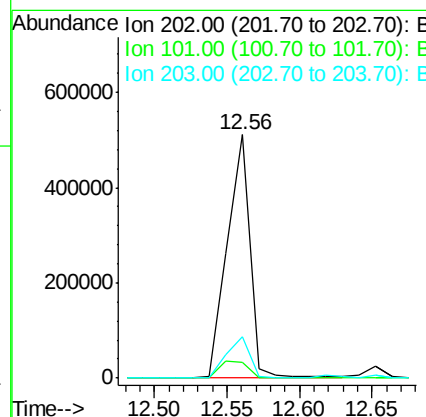
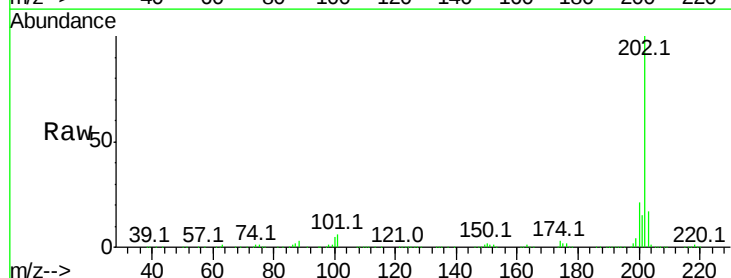
RT: 12.56 min Scan# 912

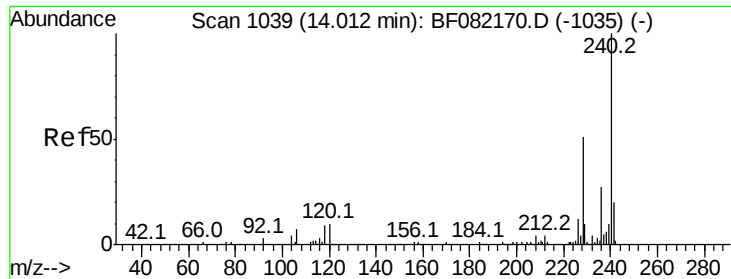
Delta R.T. -0.02 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.5	0.0	29.3
203	17.1	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

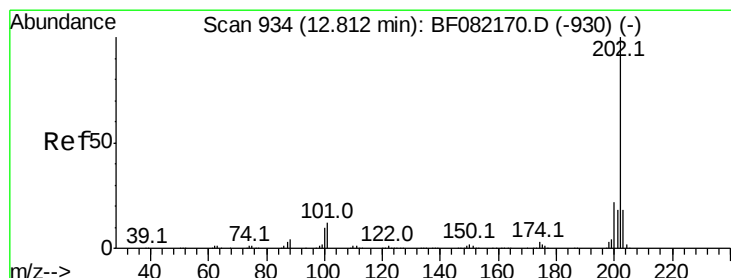
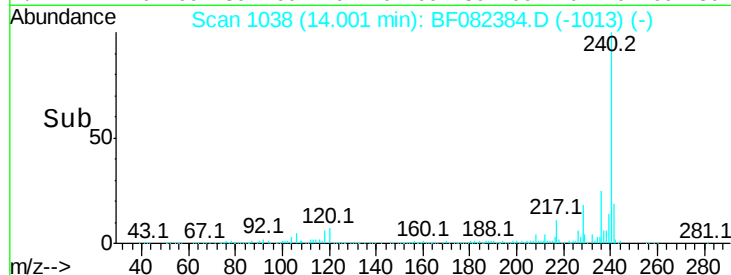
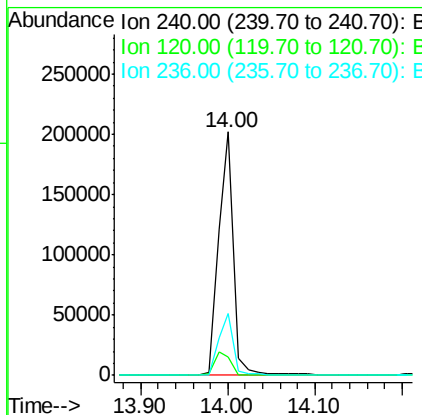
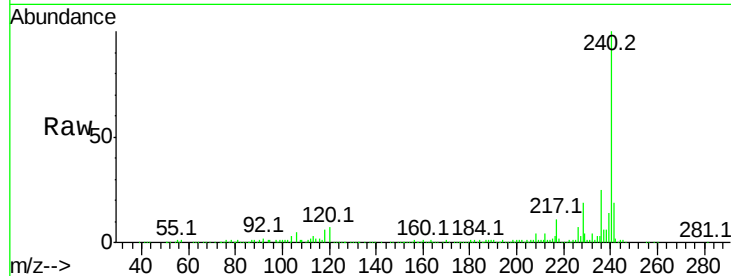
ClientSampleId :

TK1-5-20151015DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.4	8.1	12.1#
236	25.3	21.3	31.9

Manual Integrations
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#77

Pyrene

Concen: 30.64 ng

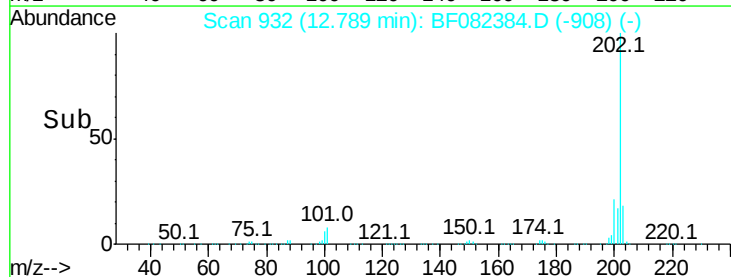
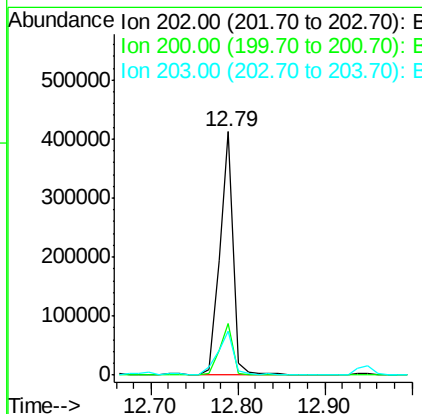
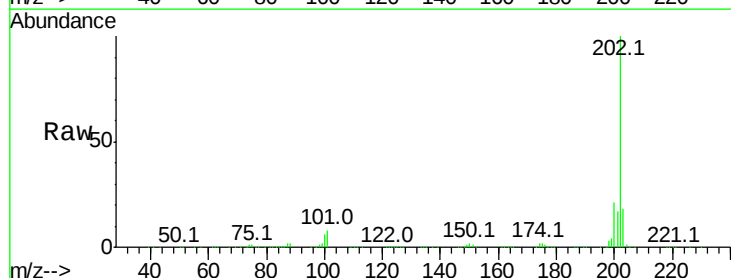
RT: 12.79 min Scan# 932

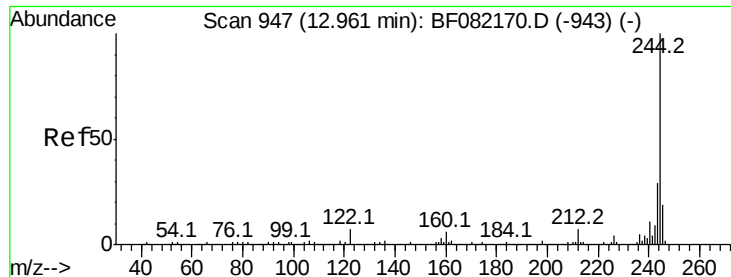
Delta R.T. -0.02 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.9	26.9
203	17.9	14.5	21.7





#78

Terphenyl-d14

Concen: 16.08 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

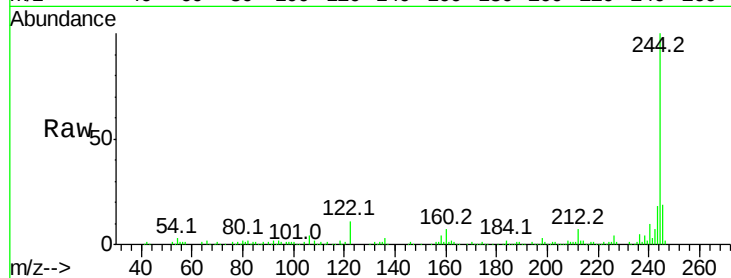
ClientSampleId :

TK1-5-20151015DL

Tot Ion:	244	Resp:	147600
Ion Ratio	Lower	Upper	
244	100		
212	7.5	5.8	8.6
122	11.3	5.9	8.9#

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

12.93

200000

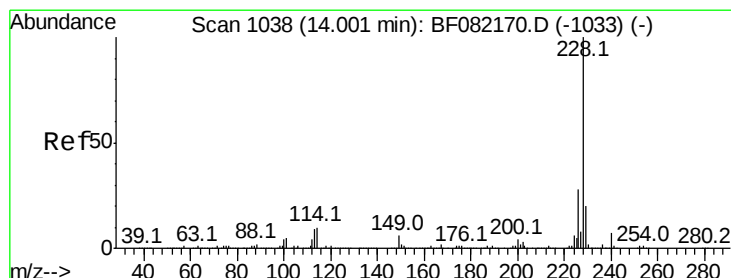
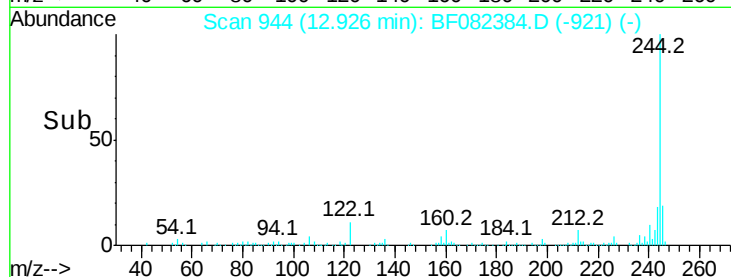
150000

100000

50000

0

Time--> 12.80 13.00 13.20



#80

Benzo(a)anthracene

Concen: 16.81 ng

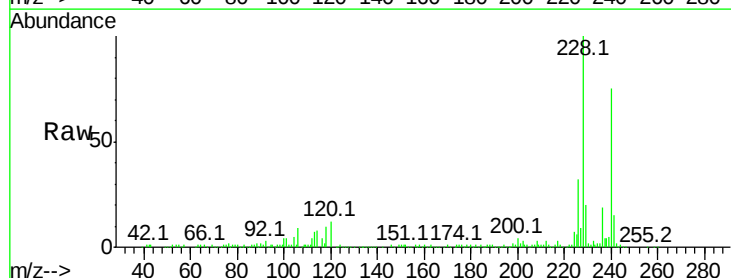
RT: 13.99 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Tgt Ion:	228	Resp:	212804
Ion Ratio	Lower	Upper	
228	100		
226	32.3	22.3	33.5
229	20.2	16.2	24.2



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

13.99

200000

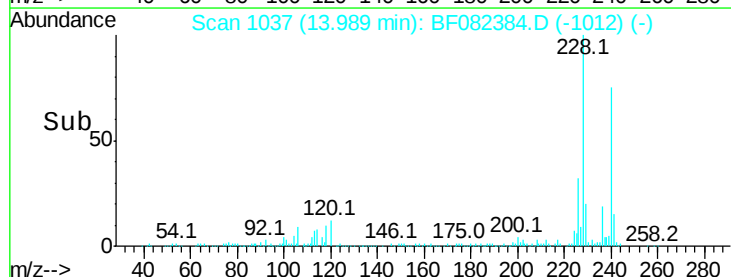
150000

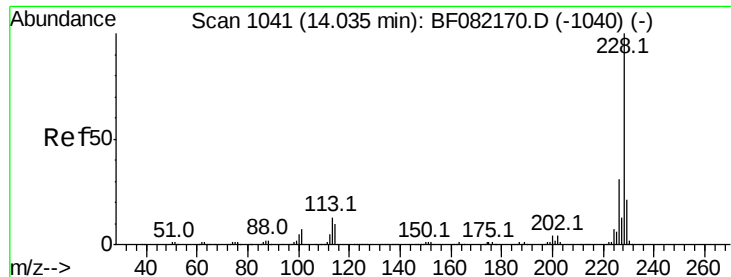
100000

50000

0

Time--> 13.90 14.00





#82

Chrysene

Concen: 14.29 ng/mL

RT: 14.02 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

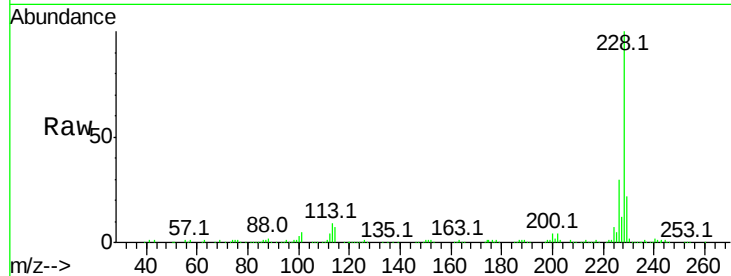
ClientSampleId :

TK1-5-20151015DL

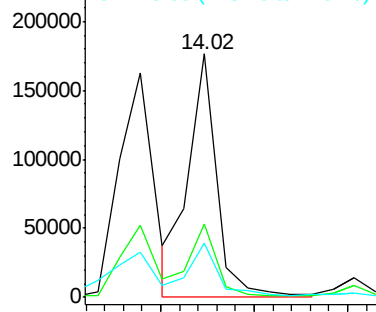
Tot Ion:	228	Resp:	190564
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.4	36.6
229	22.5	16.3	24.5

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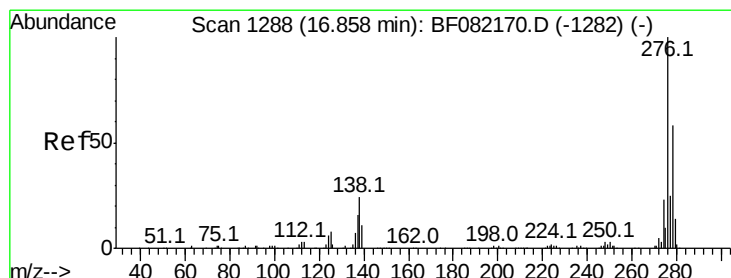
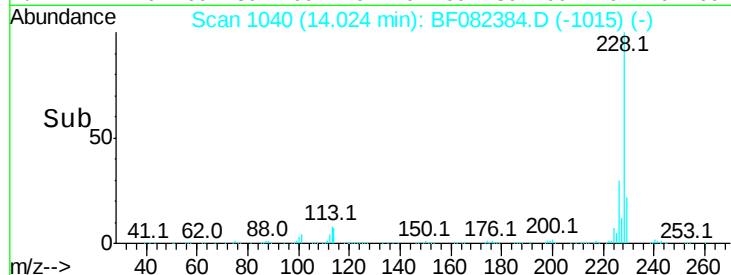
MMdadoda
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.60 ng/mL

RT: 16.87 min Scan# 1289

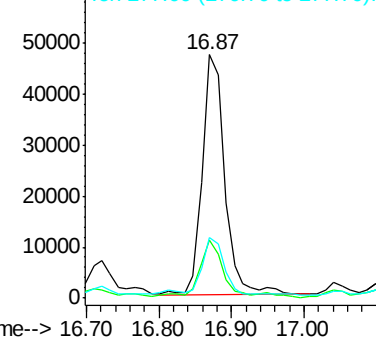
Delta R.T. 0.01 min

Lab File: BF082384.D

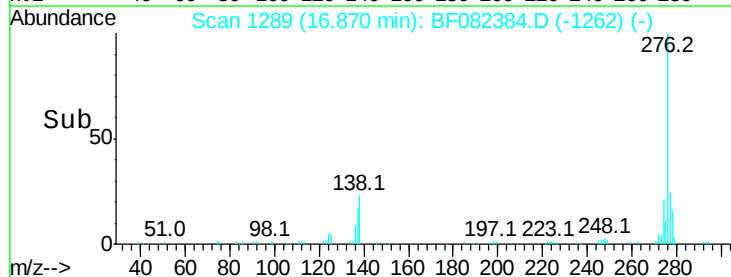
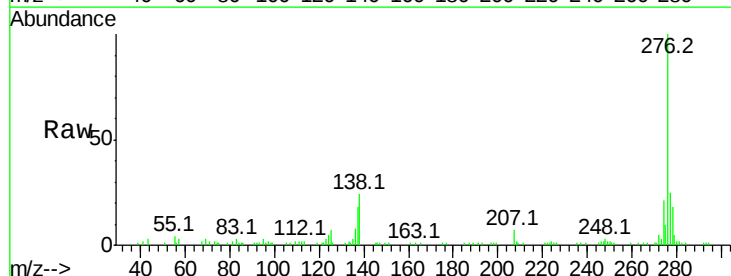
Acq: 20 Oct 2015 5:59

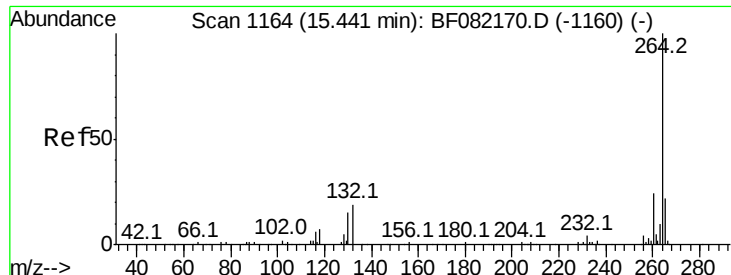
Tgt Ion:	276	Resp:	101716
Ion Ratio	Lower	Upper	
276	100		
138	22.6	19.7	29.5
277	23.4	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



Time-->





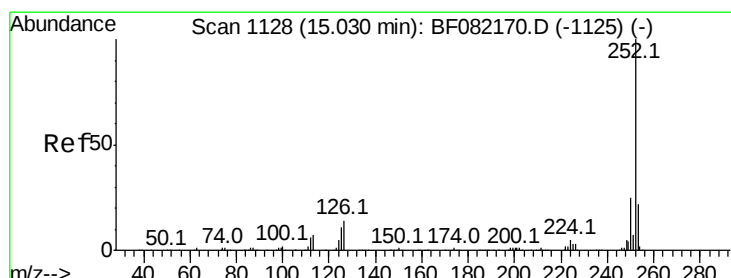
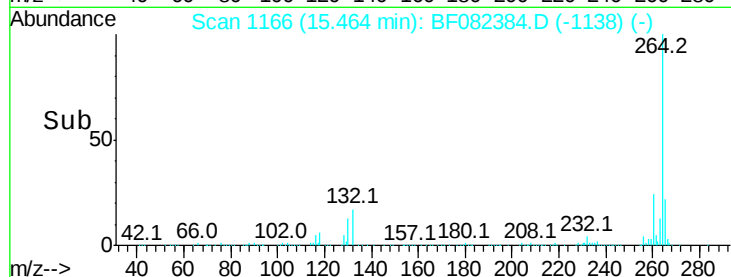
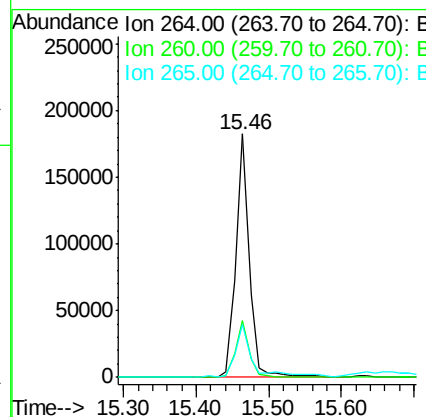
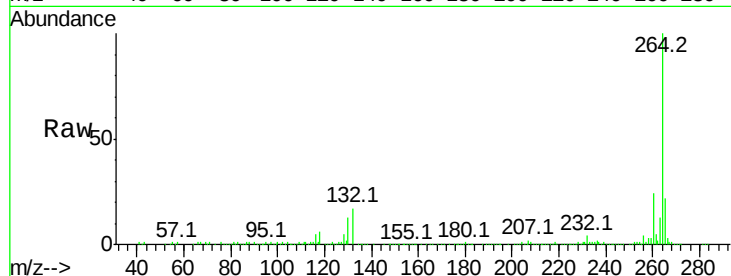
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.46 min Scan# 1166
Delta R.T. 0.02 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015DL

Tot Ion	Ratio	Resp Lower	Upper
264	100		
260	23.5	19.0	28.6
265	21.7	17.3	25.9

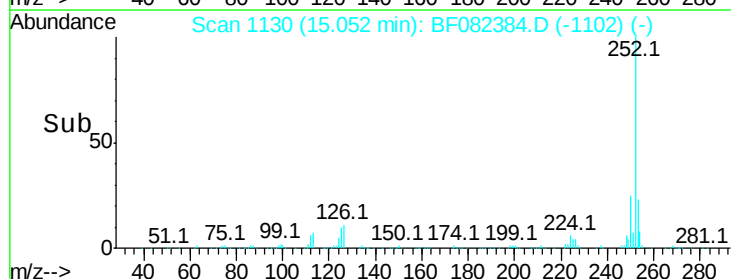
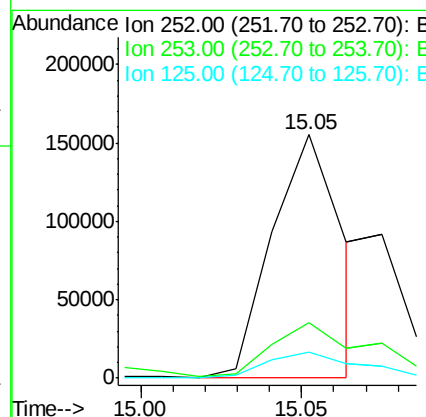
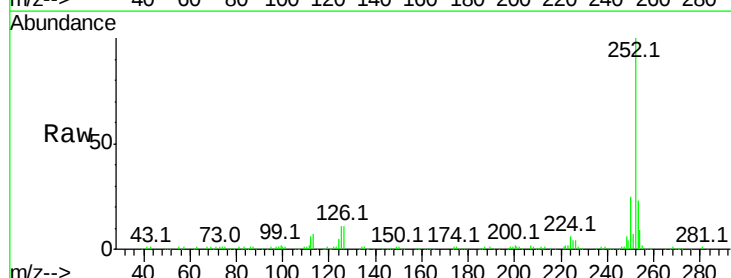
Manual Integrations
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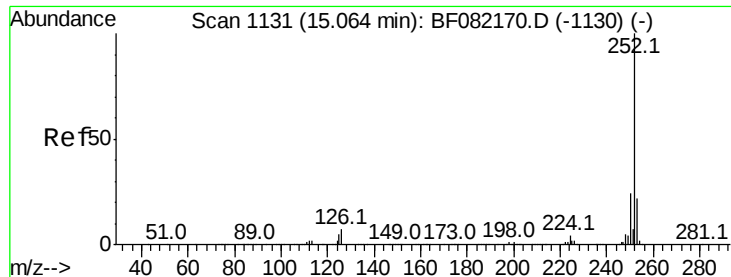
MMdadoda
10/20/2015 6:26:05 PM



#87
Benzo(b)fluoranthene
Concen: 16.40 ng m
RT: 15.05 min Scan# 1130
Delta R.T. 0.02 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.9	18.0	27.0
125	10.7	8.6	12.8





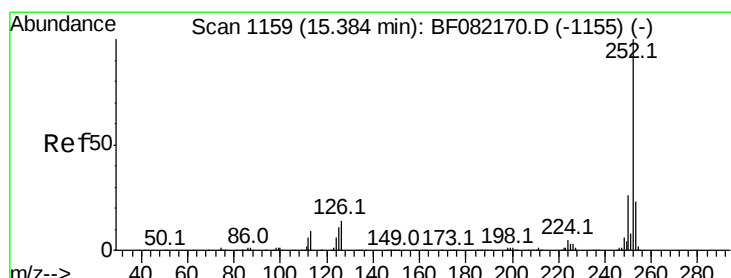
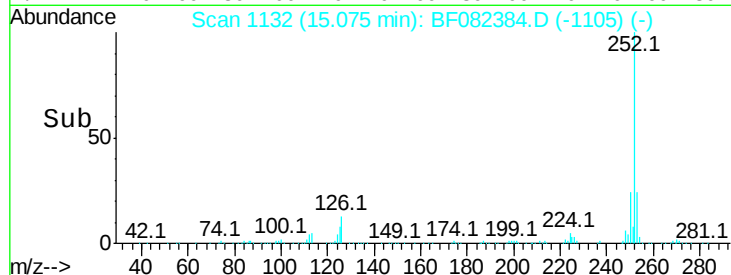
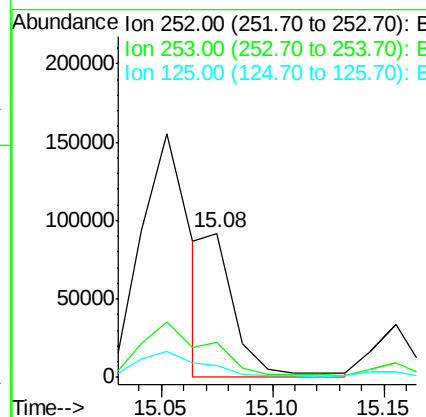
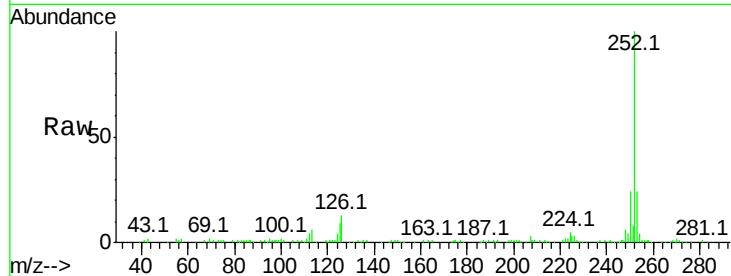
#88
Benzo(k)fluoranthene
Concen: 7.24 ng m
RT: 15.08 min Scan# 1132
Delta R.T. 0.01 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015DL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	86962		
253	23.9		17.8	26.6
125	8.7		6.7	10.1

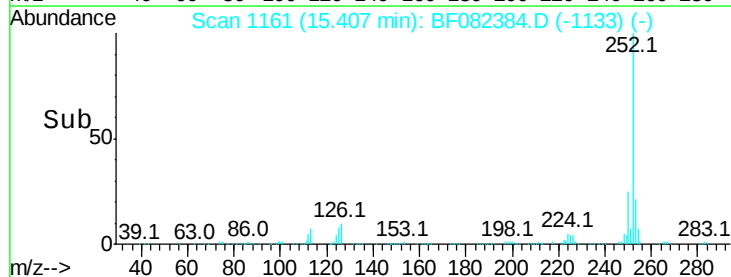
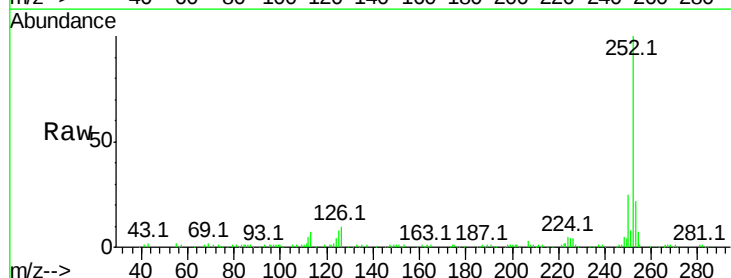
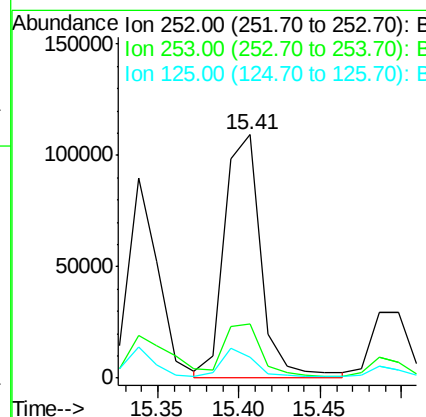
Manual Integrations
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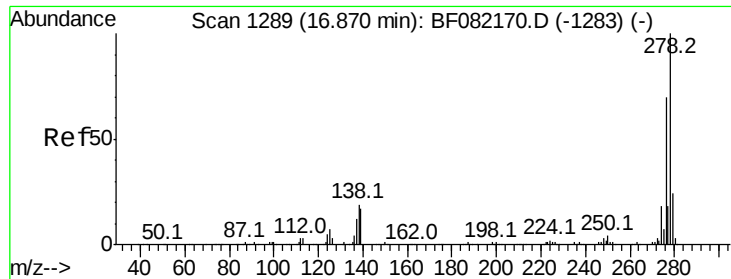
MMdadoda
10/20/2015 6:26:05 PM



#89
Benzo(a)pyrene
Concen: 13.98 ng m
RT: 15.41 min Scan# 1161
Delta R.T. 0.02 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	171642		
253	22.3		18.2	27.2
125	8.4		8.9	13.3#





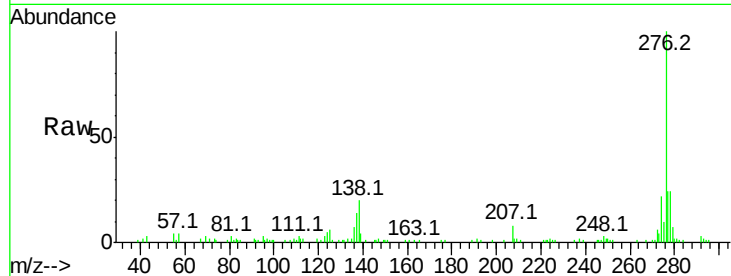
#90
Dibenzo(a,h)anthracene
Concen: 2.38 ng/mL
RT: 16.88 min Scan# 1290
Delta R.T. 0.01 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015DL

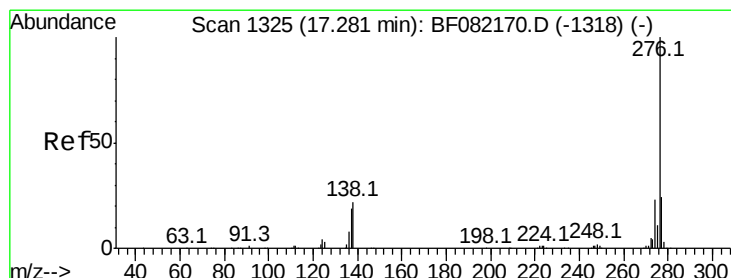
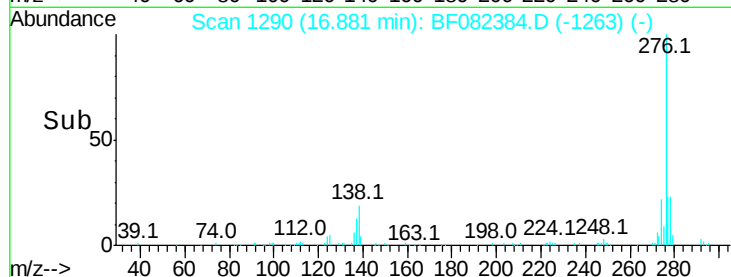
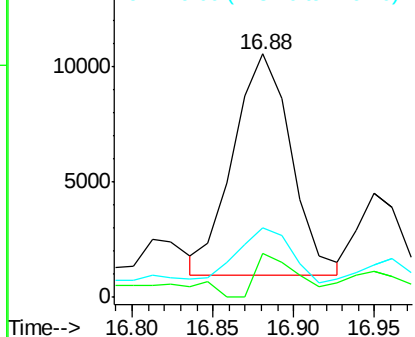
Tot Ion	Ratio	Lower	Upper
278	100		
139	18.0	13.3	19.9
279	28.4	18.9	28.3

Manual Integrations
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Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 9.62 ng/mL
RT: 17.30 min Scan# 1327
Delta R.T. 0.02 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.8	28.2
138	21.0	17.4	26.2

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

