

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040616\
 Data File : BF086115.D
 Acq On : 6 Apr 2016 23:24
 Operator : UM/SJ
 Sample : H2074-08
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032916

Manual Integrations
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 4/8/2016 6:08:30 PM

Quant Time: Apr 07 15:08:12 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	95054	20.00	ng	-0.03
21) Naphthalene-d8	8.03	136	349801	20.00	ng	-0.03
38) Acenaphthene-d10	9.78	164	135627	20.00	ng	-0.03
63) Phenanthrene-d10	11.26	188	247474	20.00	ng	-0.03
75) Chrysene-d12	13.91	240	238279	20.00	ng	-0.02
86) Perylene-d12	15.31	264	184247	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	881729	158.56	ng	-0.02
7) Phenol-d6	6.40	99	944338	133.69	ng	-0.02
23) Nitrobenzene-d5	7.31	82	574440	96.84	ng	-0.03
41) 2,4,6-Tribromophenol	10.58	330	195044	153.22	ng	-0.02
44) 2-Fluorobiphenyl	9.10	172	812017	99.55	ng	-0.03
78) Terphenyl-d14	12.85	244	839339	82.80	ng	-0.02

Target Compounds					Qvalue	
31) Naphthalene	8.05	128	40654	2.31	ng	98
48) Acenaphthylene	9.64	152	62449	4.60	ng	98
49) Dimethylphthalate	9.50	163	167265	16.64	ng	99
51) Acenaphthene	9.81	154	32718	4.05	ng	98
54) Dibenzofuran	9.98	168	32849	3.08	ng	95
57) Fluorene	10.33	166	42893	4.71	ng	99
70) Phenanthrene	11.29	178	583104	43.19	ng	100
71) Anthracene	11.34	178	151749	10.73	ng	96
72) Carbazole	11.50	167	58101	4.78	ng	98
74) Fluoranthene	12.48	202	811134	57.76	ng	98
77) Pyrene	12.71	202	778431	46.36	ng	98
80) Benzo(a)anthracene	13.89	228	522056	37.17	ng	97
82) Chrysene	13.93	228	337743	24.96	ng	98
83) Bis(2-ethylhexyl)phthalate	13.88	149	21073	2.10	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.66	276	186320	16.97	ng	93
87) Benzo(b)fluoranthene	14.91	252	551820m	47.61	ng	
88) Benzo(k)fluoranthene	14.93	252	82679m	8.06	ng	
89) Benzo(a)pyrene	15.25	252	322015	31.36	ng	96
90) Dibenzo(a,h)anthracene	16.66	278	48657m	5.89	ng	
91) Benzo(a,h,i)perylene	17.06	276	168845	21.12	ng	97

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

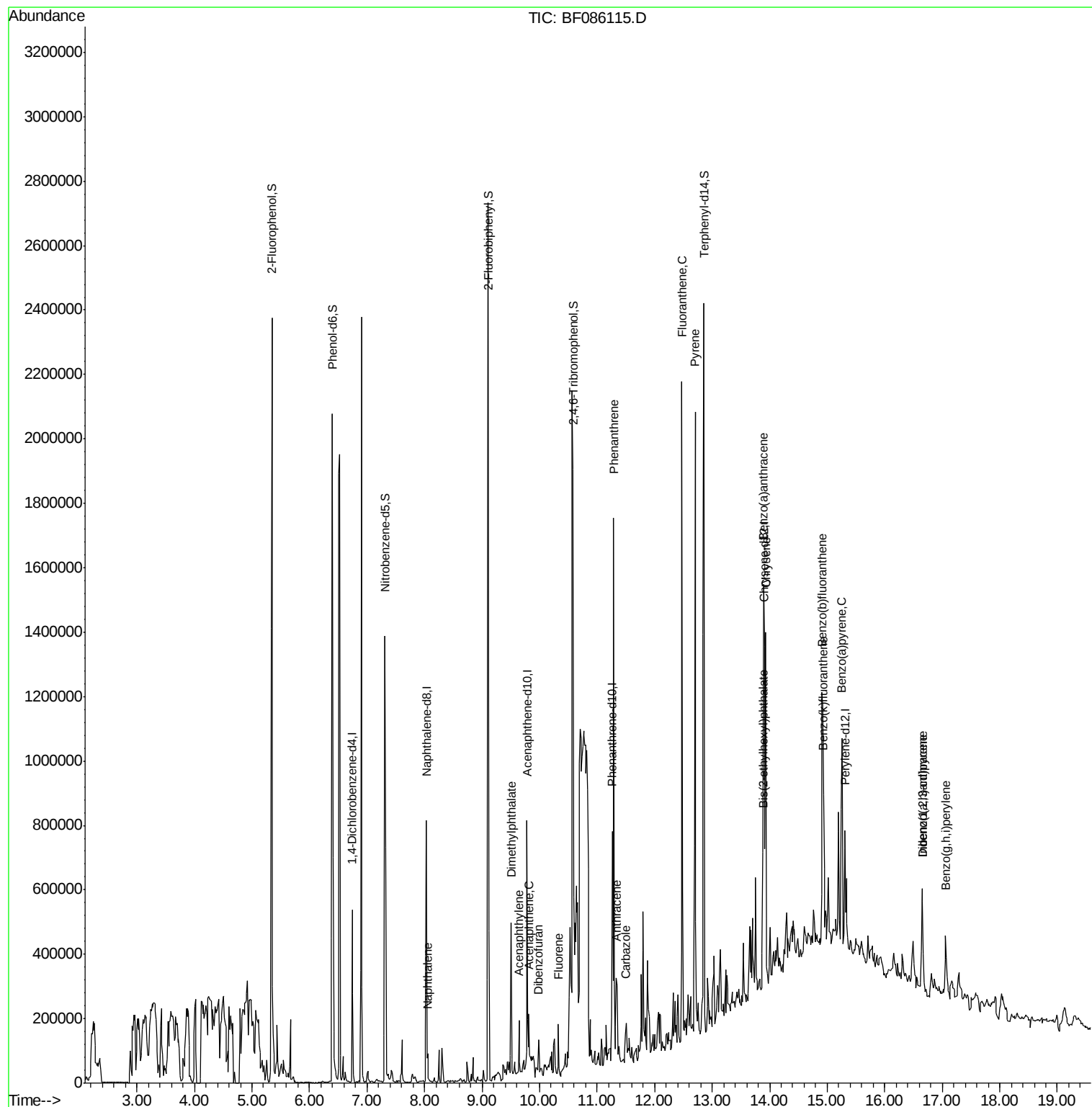
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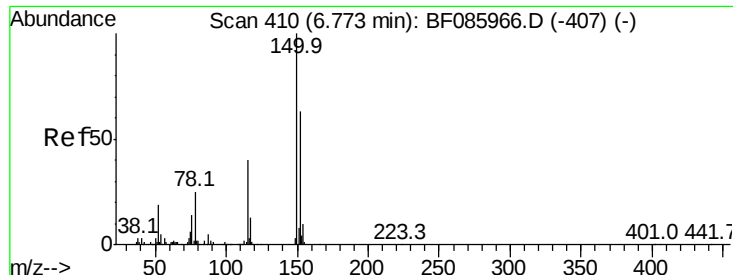
Instrument :
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Quant Time: Apr 07 15:08:12 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 01 23:17:06 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 407

Delta R.T. -0.03 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Instrument :

BNA_F

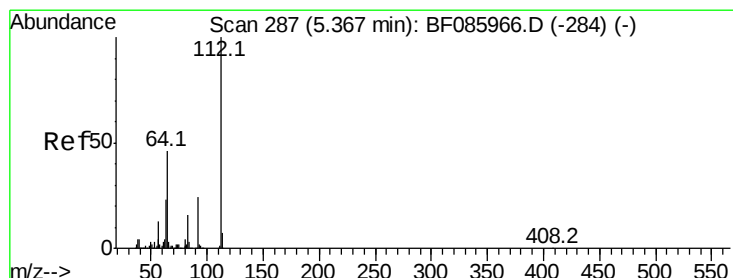
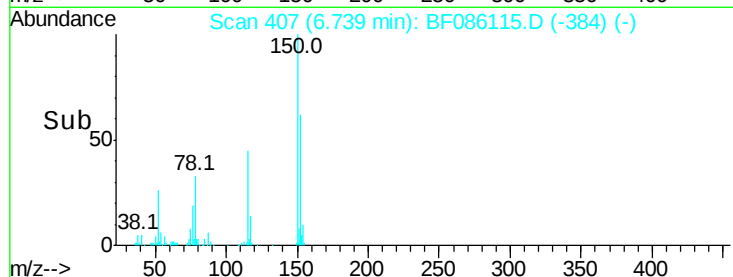
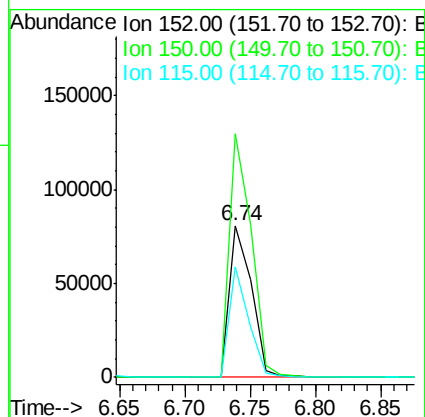
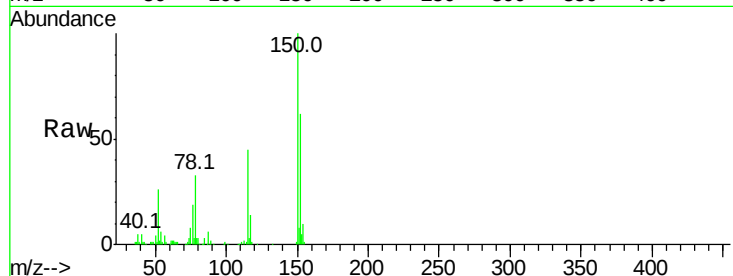
ClientSampleId :

DUP-032916

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.6	124.2	186.2
115	72.9	47.0	70.6

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#5

2-Fluorophenol

Concen: 158.56 ng

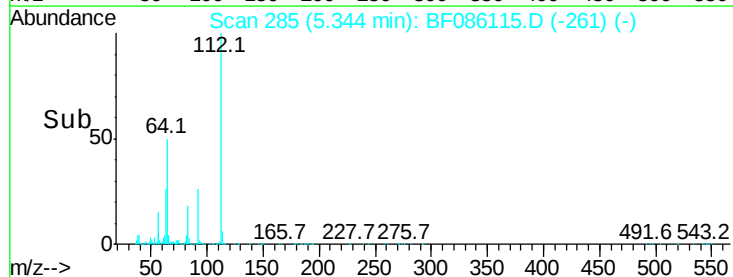
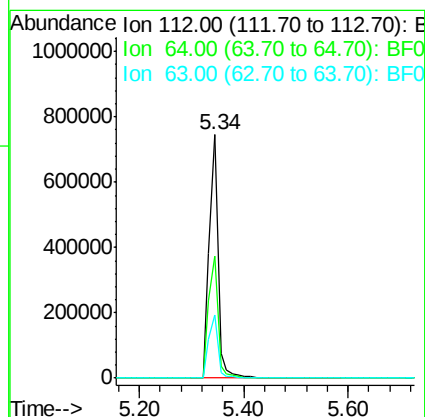
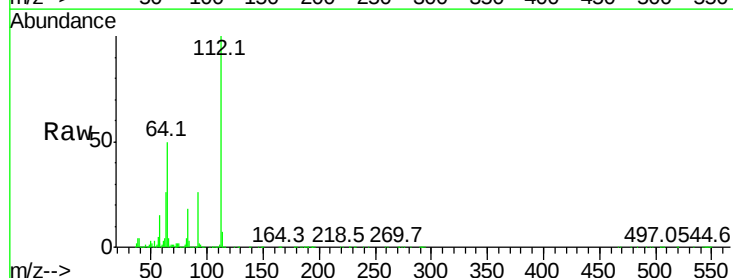
RT: 5.34 min Scan# 285

Delta R.T. -0.02 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.2	39.9	59.9
63	25.9	20.2	30.2





#7

Phenol-d6

Concen: 133.69 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Instrument :

BNA_F

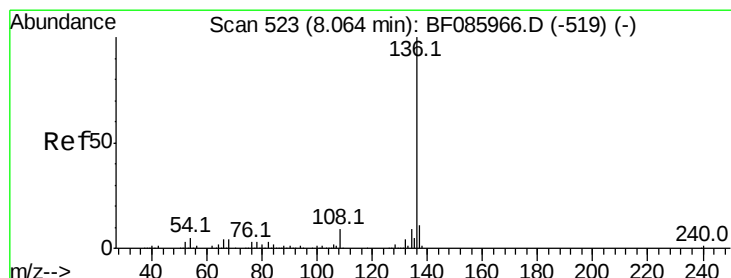
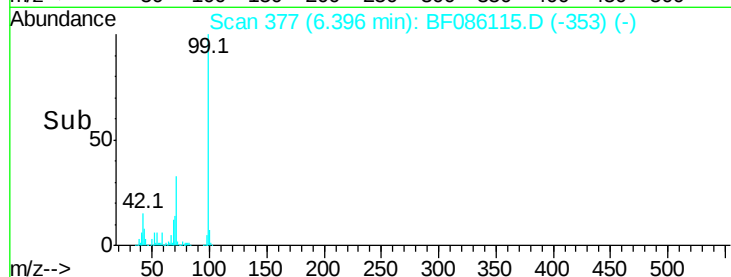
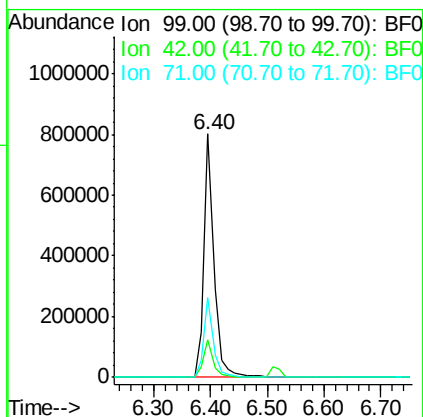
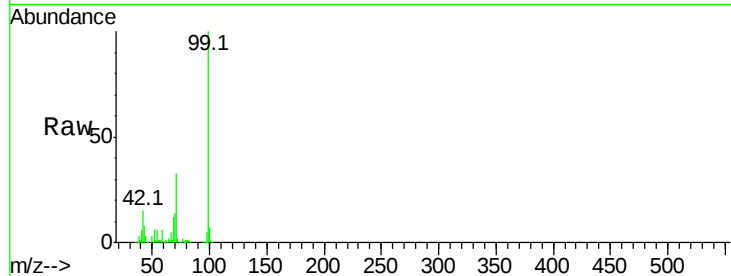
ClientSampleId :

DUP-032916

Tot Ion:	99	Resp:	944338
Ion Ratio	Lower	Upper	
99	100		
42	15.3	11.1	16.7
71	32.9	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

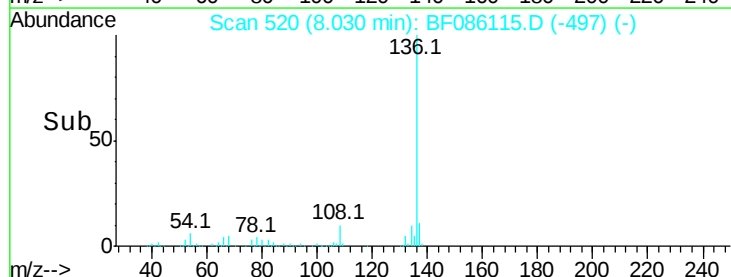
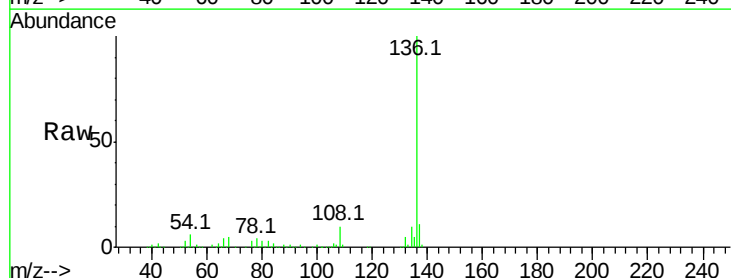
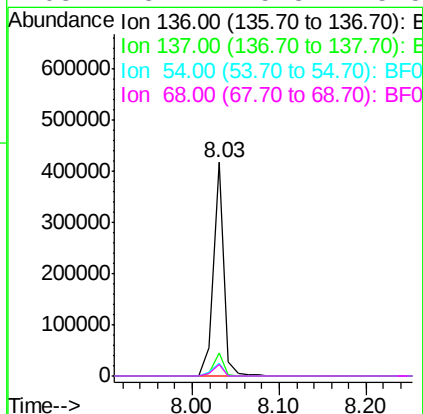
RT: 8.03 min Scan# 520

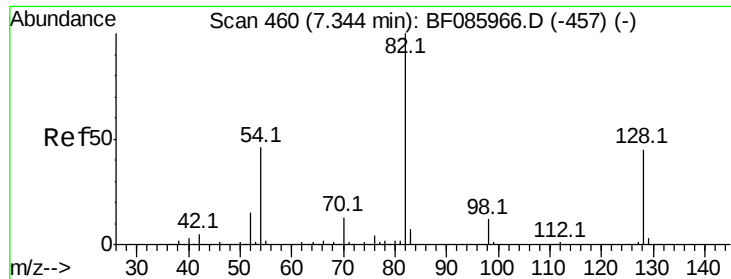
Delta R.T. -0.03 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Tgt Ion:	136	Resp:	349801
Ion Ratio	Lower	Upper	
136	100		
137	10.8	9.1	13.7
54	6.2	7.4	11.0#
68	5.2	5.8	8.8#





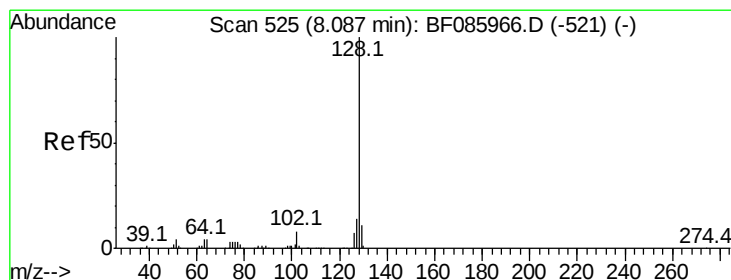
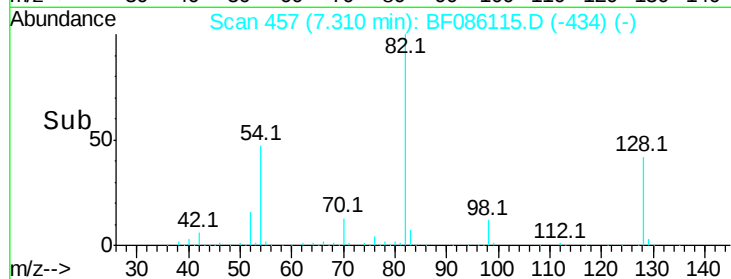
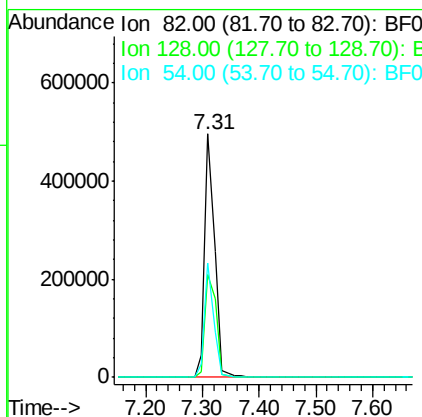
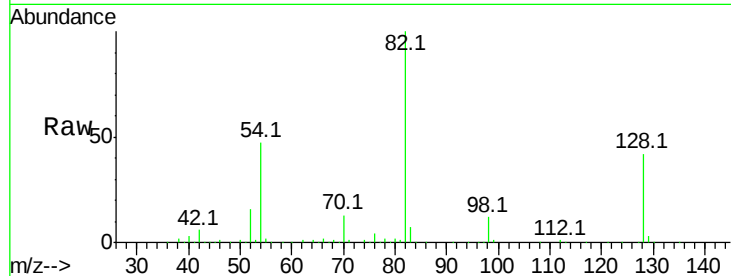
#23
 Nitrobenzene-d5
 Concen: 96.84 ng
 RT: 7.31 min Scan# 457
 Delta R.T. -0.03 min
 Lab File: BF086115.D
 Acq: 6 Apr 2016 23:24

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032916

Tot Ion:	82	Resp:	574440
Ion Ratio	Lower	Upper	
82	100		
128	42.0	41.8	62.8
54	46.8	33.4	50.0

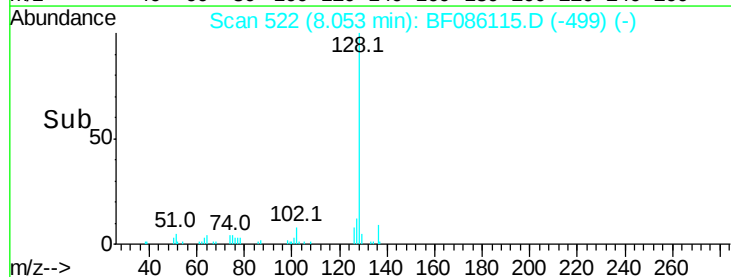
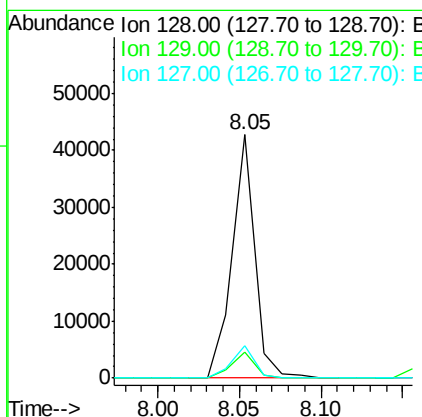
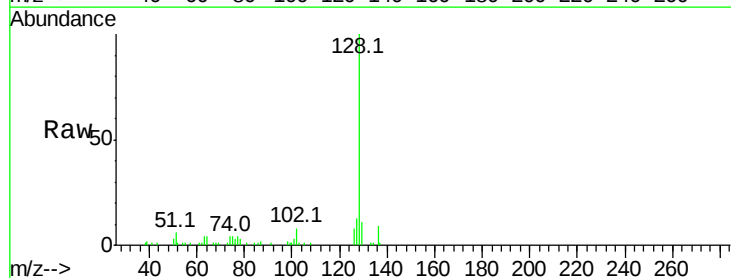
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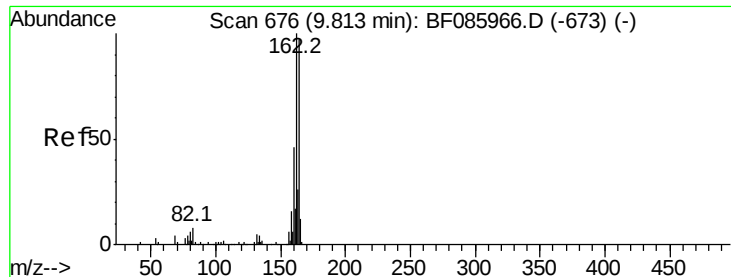
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#31
 Naphthalene
 Concen: 2.31 ng
 RT: 8.05 min Scan# 522
 Delta R.T. -0.03 min
 Lab File: BF086115.D
 Acq: 6 Apr 2016 23:24

Tgt Ion:	128	Resp:	40654
Ion Ratio	Lower	Upper	
128	100		
129	10.7	9.4	14.0
127	13.3	11.0	16.6





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.03 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Instrument :

BNA_F

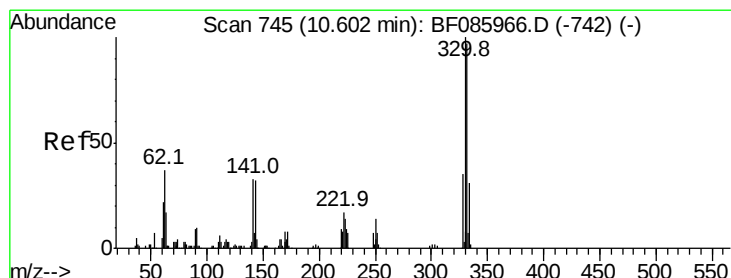
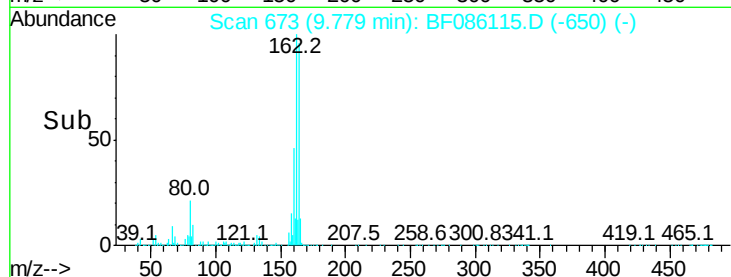
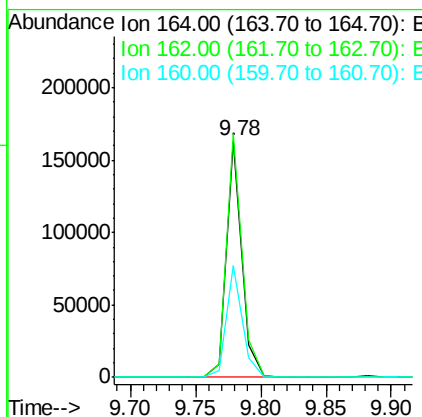
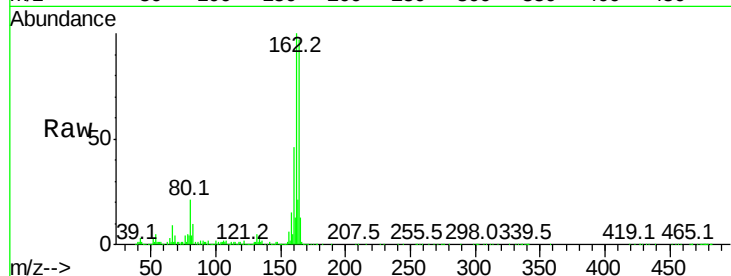
ClientSampleId :

DUP-032916

Tot Ion:	164	Resp:	135627
Ion Ratio	Lower	Upper	
164	100		
162	102.9	82.1	123.1
160	47.1	37.4	56.2

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#41

2,4,6-Tribromophenol

Concen: 153.22 ng

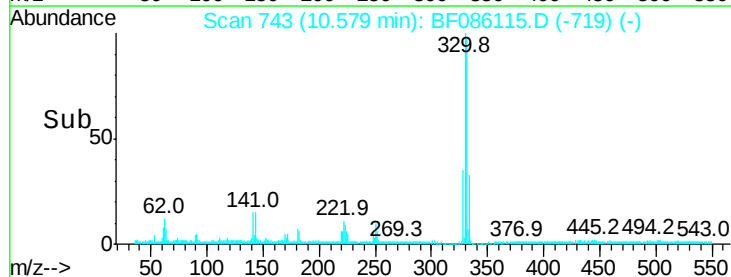
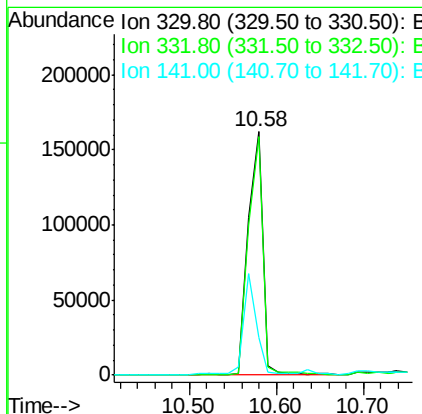
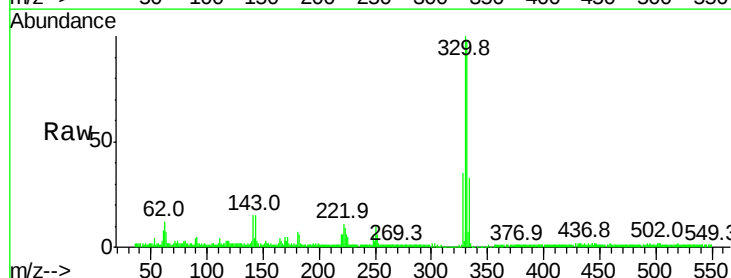
RT: 10.58 min Scan# 743

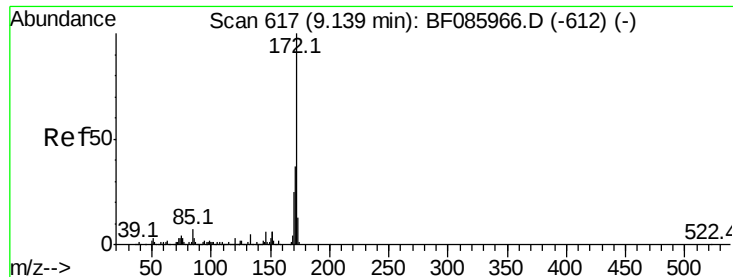
Delta R.T. -0.02 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Tgt Ion:	330	Resp:	195044
Ion Ratio	Lower	Upper	
330	100		
332	97.0	78.2	117.2
141	35.6	31.5	47.3





#44

2-Fluorobiphenyl

Concen: 99.55 ng

RT: 9.10 min Scan# 614

Delta R.T. -0.03 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Instrument :

BNA_F

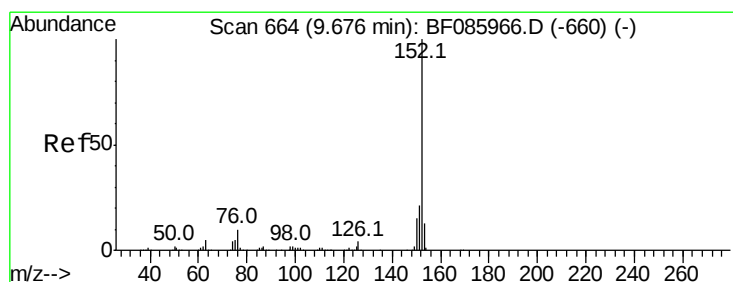
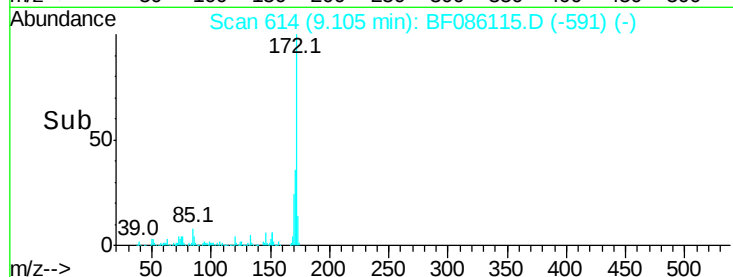
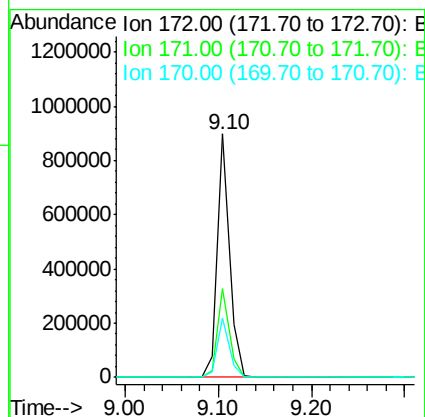
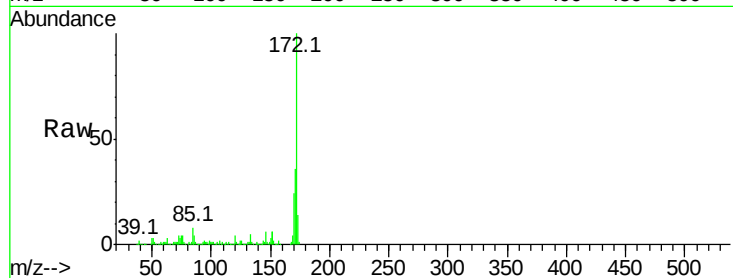
ClientSampleId :

DUP-032916

Tot Ion:	172	Resp:	812017
Ion Ratio	Lower	Upper	
172	100		
171	36.2	29.4	44.2
170	24.5	19.8	29.6

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#48

Acenaphthylene

Concen: 4.60 ng

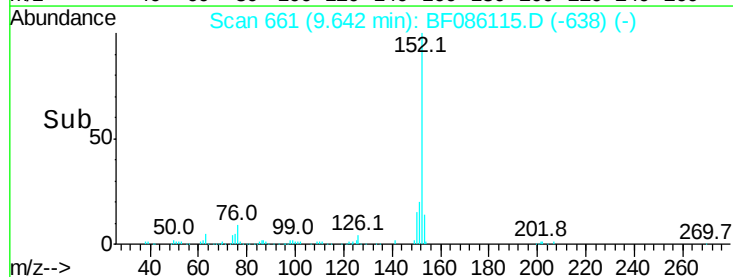
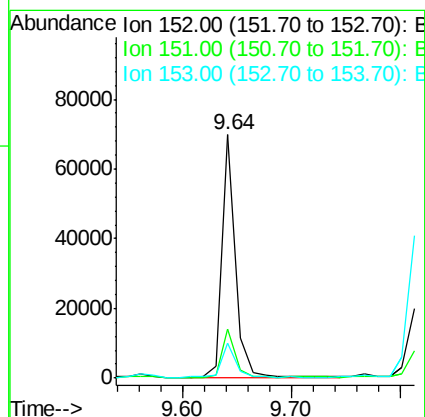
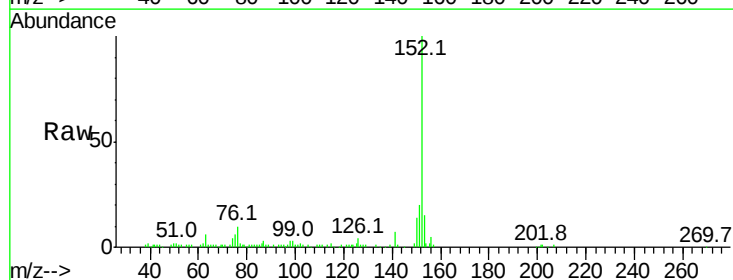
RT: 9.64 min Scan# 661

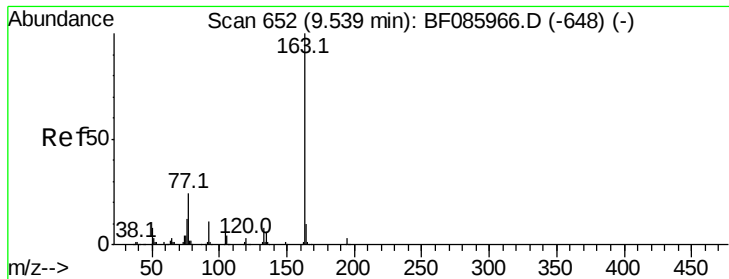
Delta R.T. -0.03 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Tgt Ion:	152	Resp:	62449
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.8	25.2
153	14.6	10.9	16.3





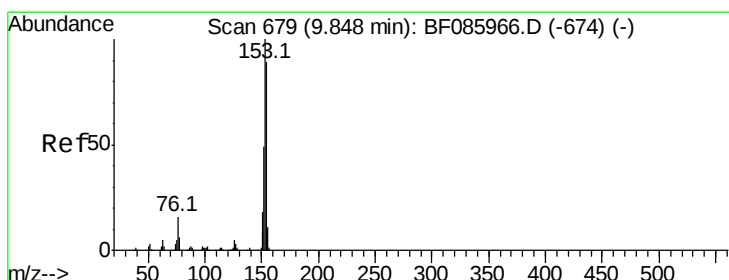
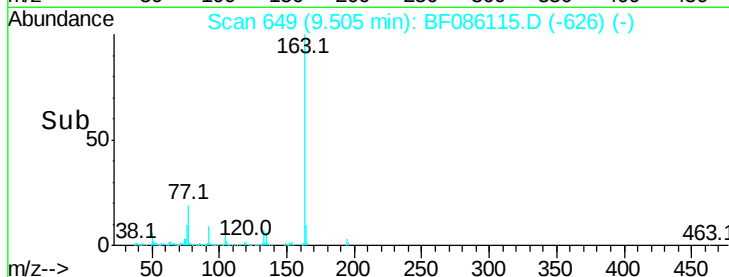
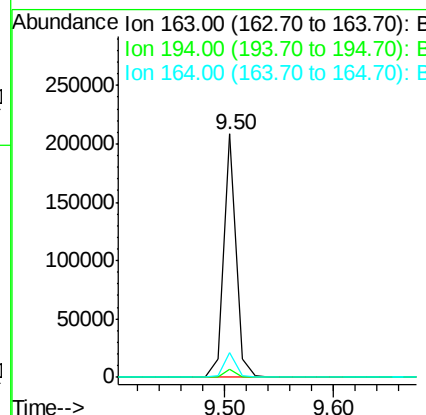
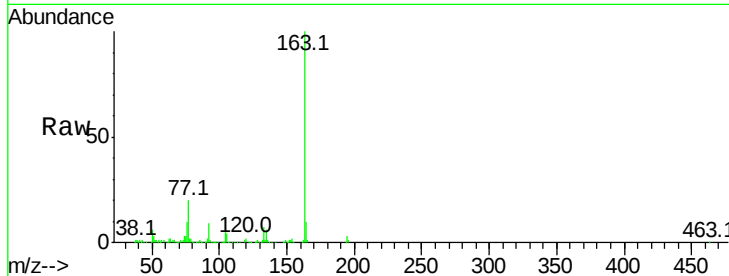
#49
Dimethylphthalate
Concen: 16.64 ng
RT: 9.50 min Scan# 649
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Instrument :
BNA_F
ClientSampleId :
DUP-032916

Tot Ion	Ratio	Resp	Lower	Upper
163	100	167265		
194	3.4	2.9	4.3	
164	10.1	8.3	12.5	

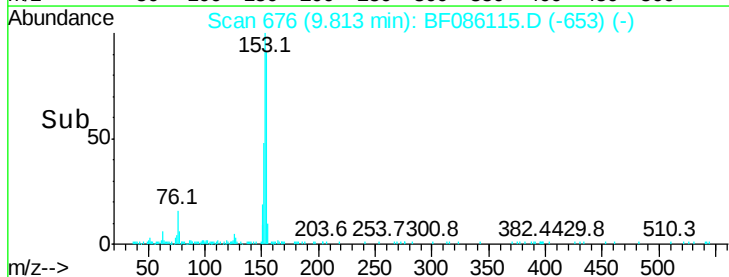
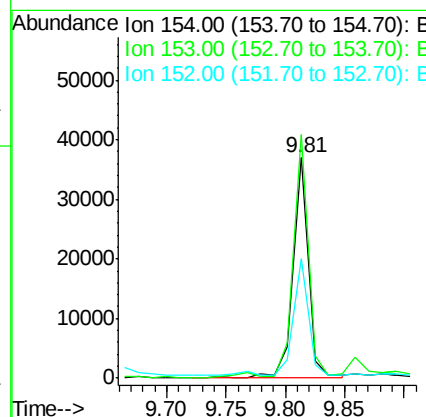
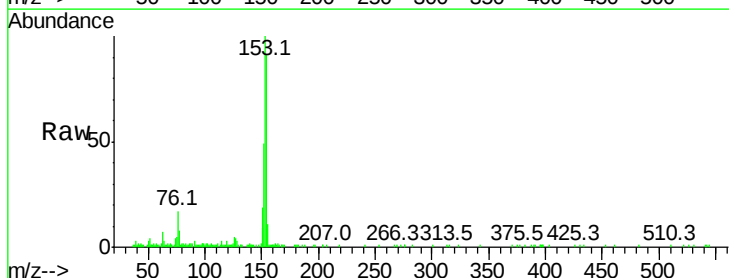
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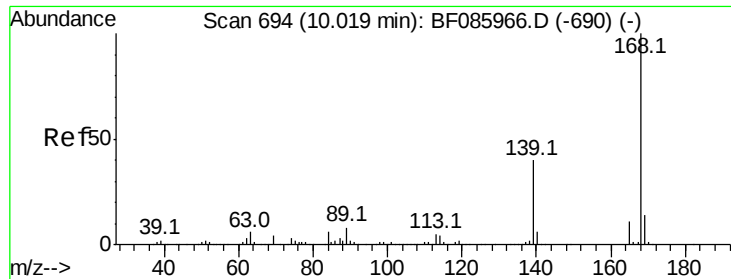
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#51
Acenaphthene
Concen: 4.05 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	32718		
153	110.4	90.1	135.1	
152	54.1	44.2	66.2	





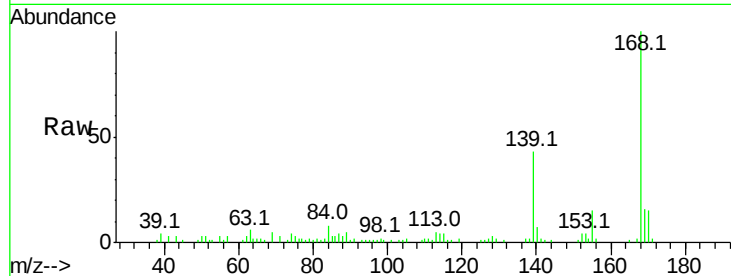
#54
Dibenzofuran
Concen: 3.08 ng
RT: 9.98 min Scan# 691
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Instrument :
BNA_F
ClientSampleId :
DUP-032916

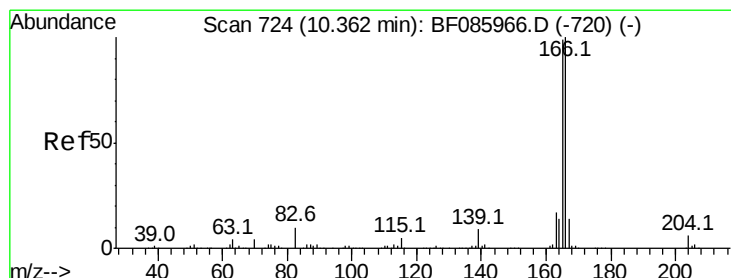
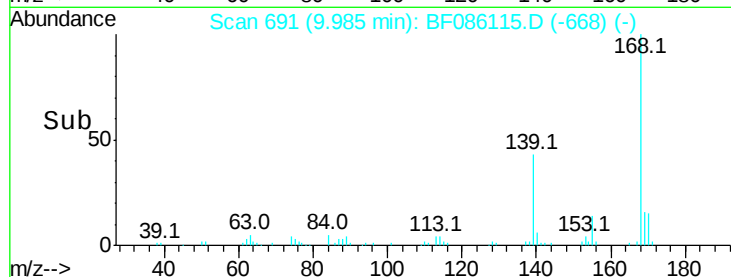
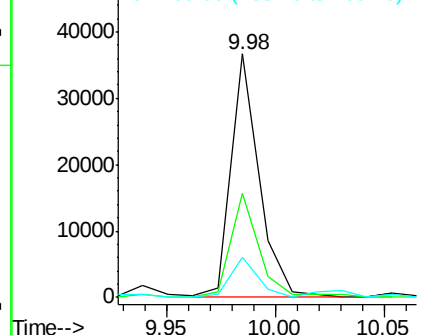
Tot Ion	Ratio	Lower	Upper
168	100		
139	43.0	31.9	47.9
169	16.3	11.0	16.6

Manual Integrations
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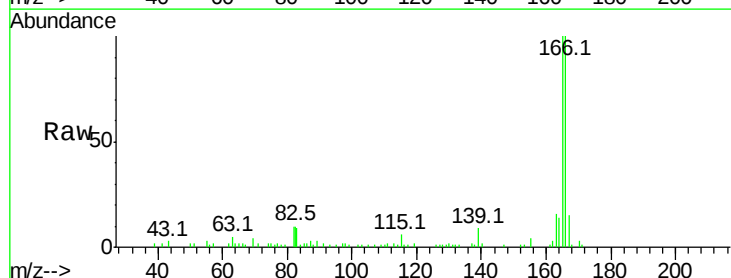


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

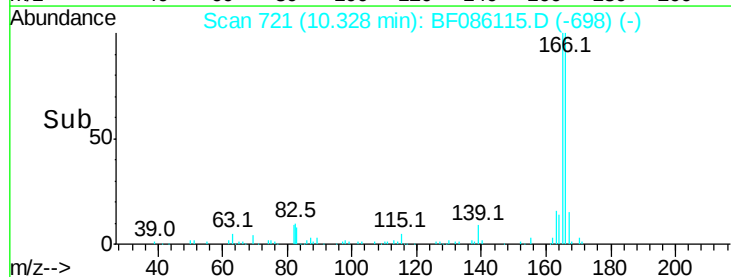
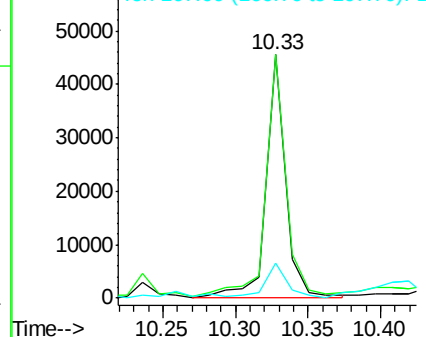


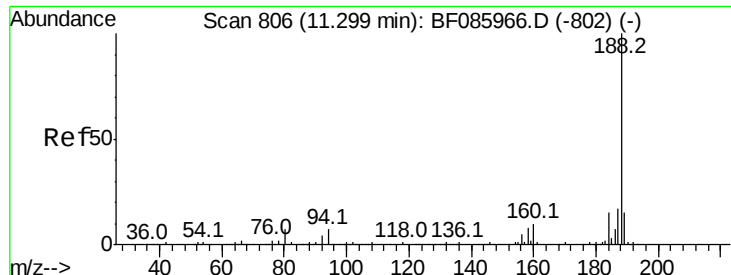
#57
Fluorene
Concen: 4.71 ng
RT: 10.33 min Scan# 721
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.4	119.0
167	14.5	11.0	16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





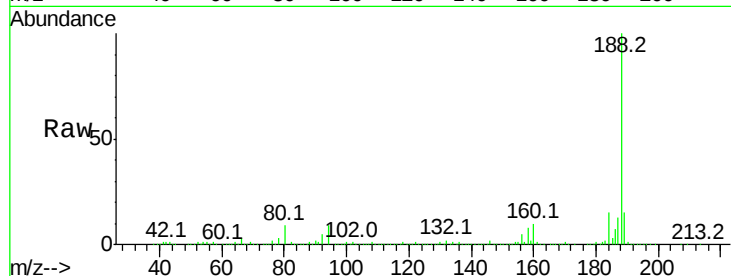
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.26 min Scan# 803
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Instrument :
BNA_F
ClientSampleId :
DUP-032916

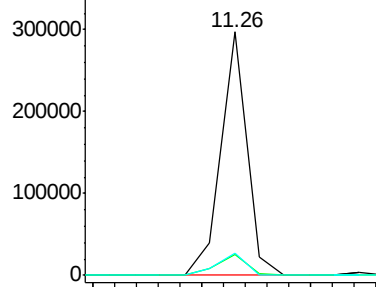
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.6	5.4	8.0#
80	8.9	5.5	8.3#

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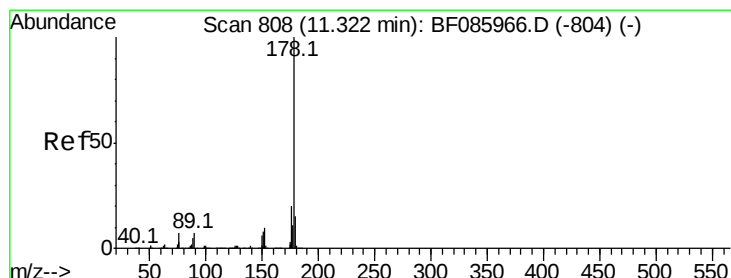
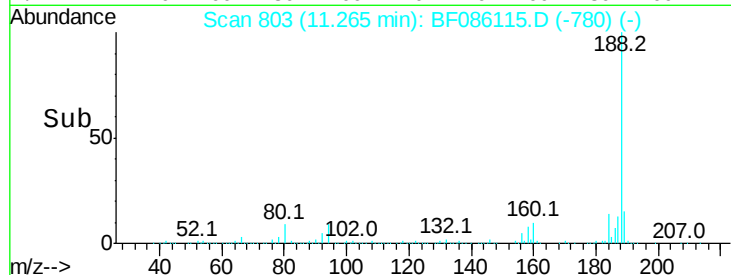
Sohil
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Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0



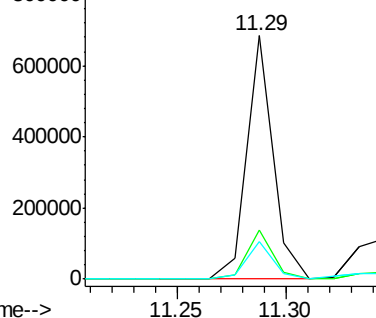
Time-->



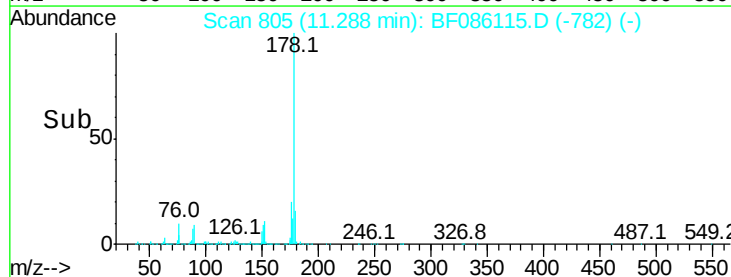
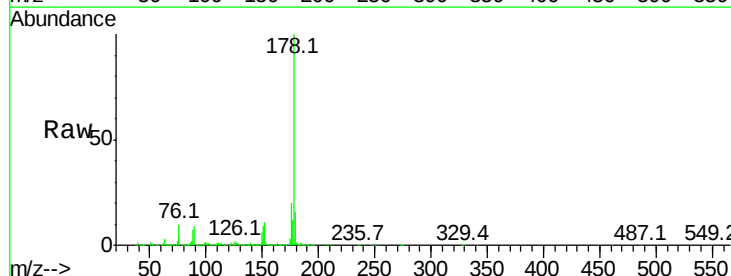
#70
Phenanthrene
Concen: 43.19 ng
RT: 11.29 min Scan# 805
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

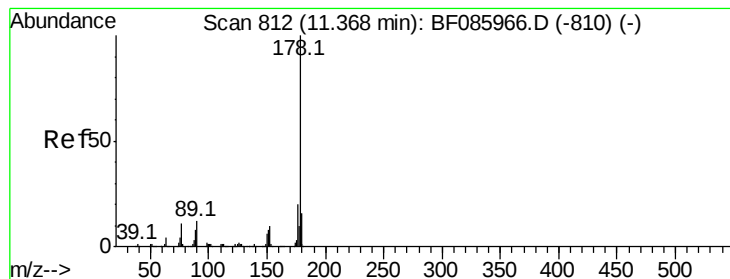
Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.3	16.3	24.5
179	15.6	12.6	18.8

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



Time-->





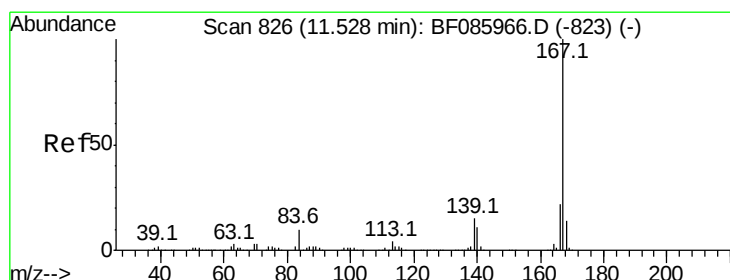
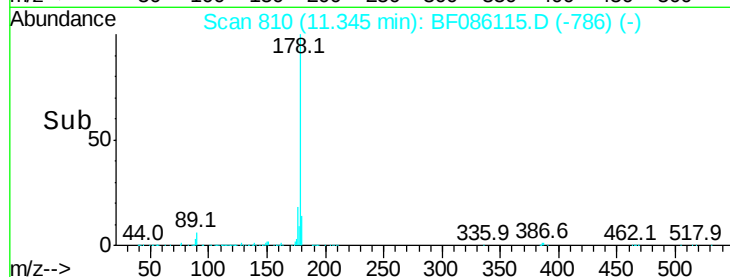
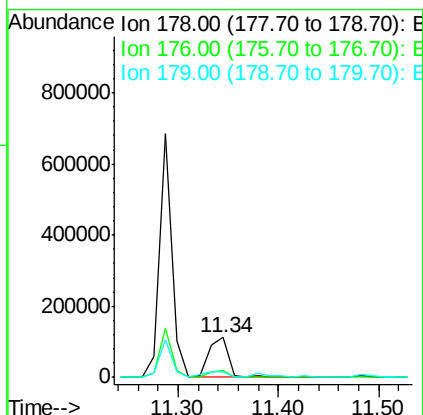
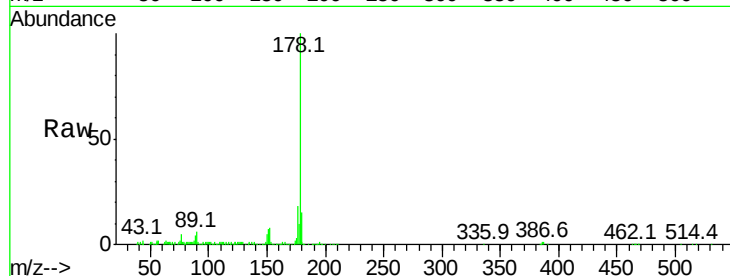
#71
 Anthracene
 Concen: 10.73 ng
 RT: 11.34 min Scan# 810
 Delta R.T. -0.02 min
 Lab File: BF086115.D
 Acq: 6 Apr 2016 23:24

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032916

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.9	23.9
179	14.9	13.0	19.4

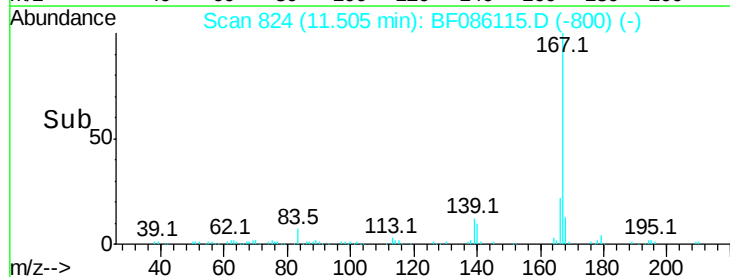
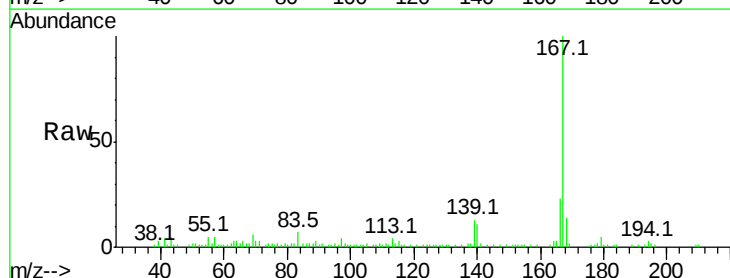
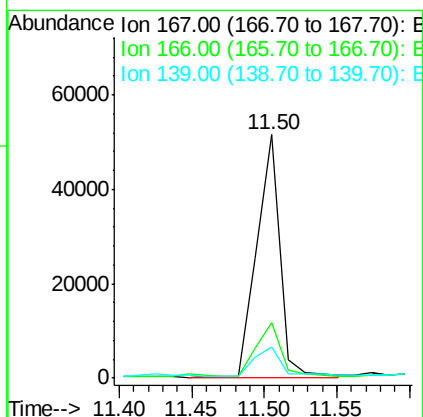
Manual Integrations
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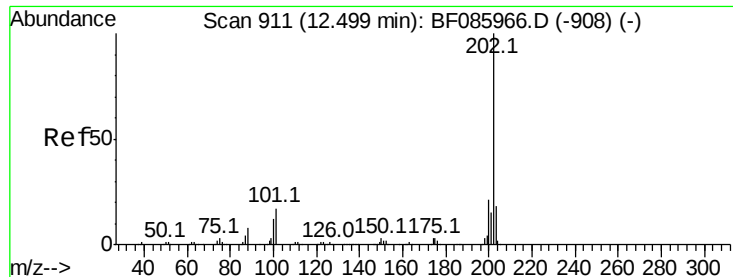
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#72
 Carbazole
 Concen: 4.78 ng
 RT: 11.50 min Scan# 824
 Delta R.T. -0.02 min
 Lab File: BF086115.D
 Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.6	17.8	26.8
139	12.8	11.6	17.4





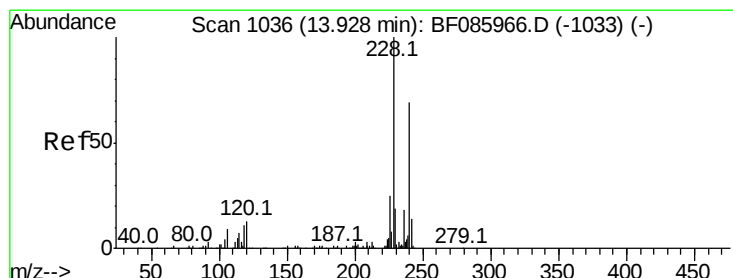
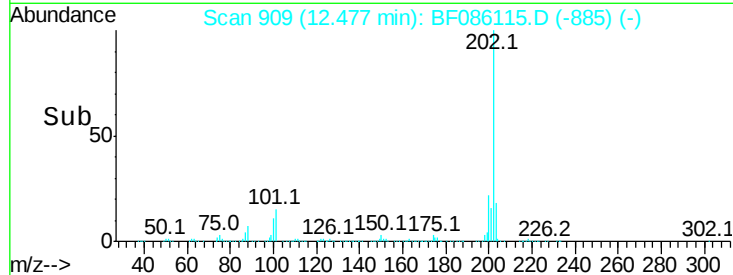
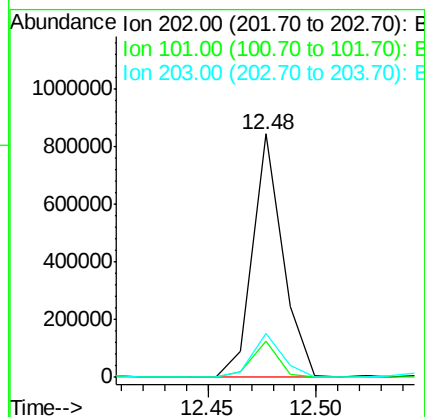
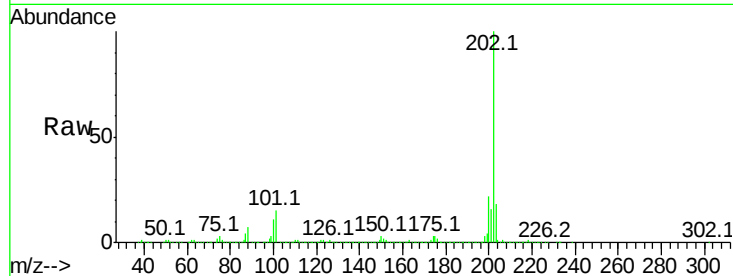
#74
 Fluoranthene
 Concen: 57.76 ng
 RT: 12.48 min Scan# 909
 Delta R.T. -0.02 min
 Lab File: BF086115.D
 Acq: 6 Apr 2016 23:24

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032916

Tot Ion	Ratio	Resp	Lower	Upper
202	100	811134		
101	14.6	0.0	36.6	
203	18.3	0.0	38.1	

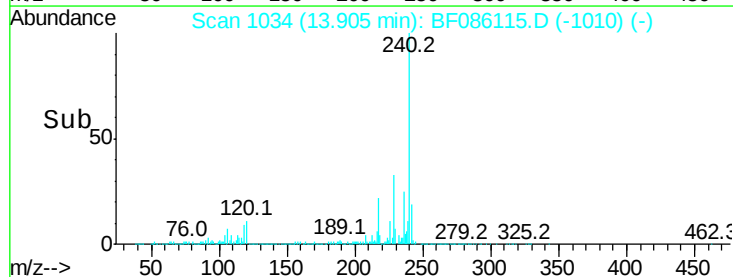
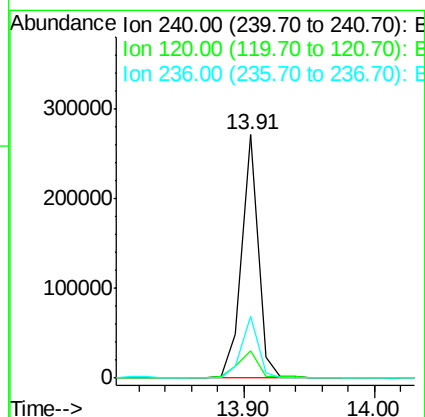
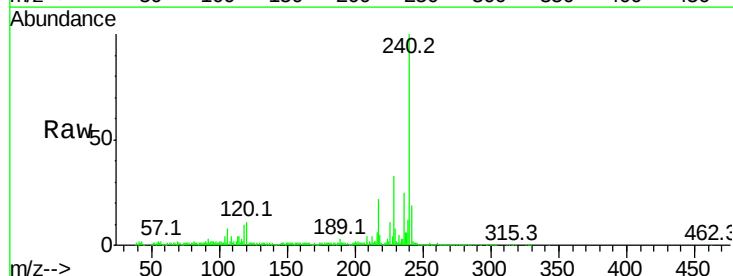
Manual Integrations
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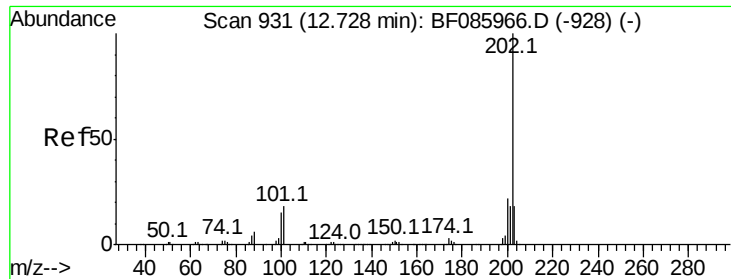
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.91 min Scan# 1034
 Delta R.T. -0.02 min
 Lab File: BF086115.D
 Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	238279		
120	11.2	13.8	20.8#	
236	25.4	20.6	30.8	





#77

Pvrene

Concen: 46.36 ng

RT: 12.71 min Scan# 929

Delta R.T. -0.02 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Instrument :

BNA_F

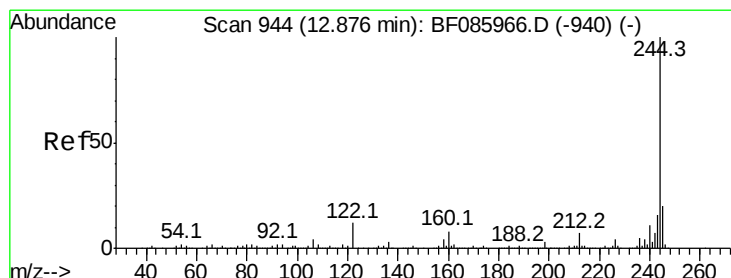
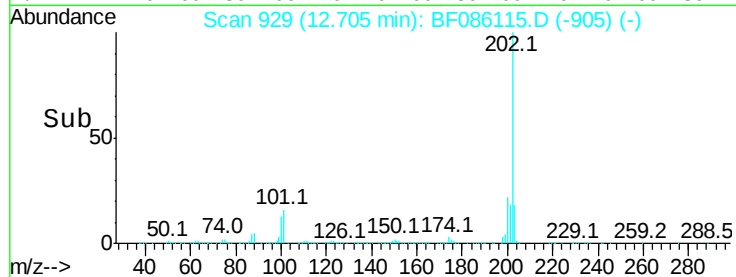
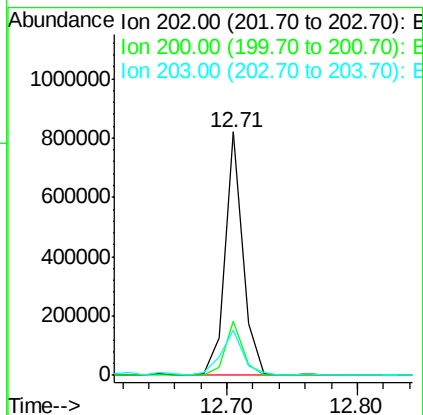
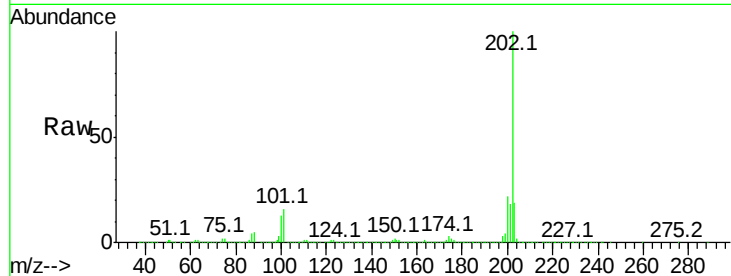
ClientSampleId :

DUP-032916

Tot Ion:	202	Resp:	778431
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.6	26.4
203	18.5	14.0	21.0

Manual Integrations
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#78

Terphenyl-d14

Concen: 82.80 ng

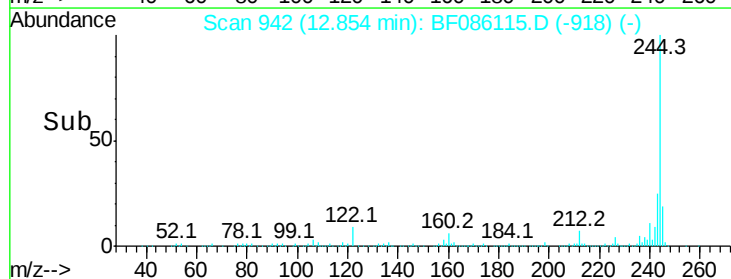
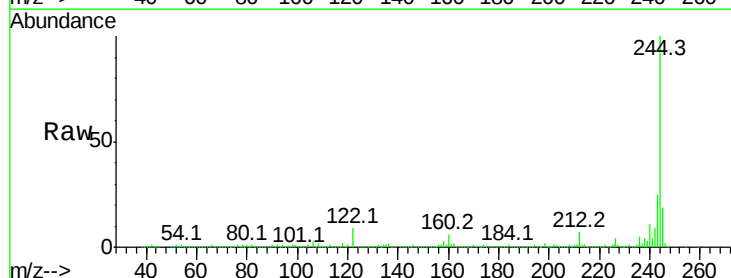
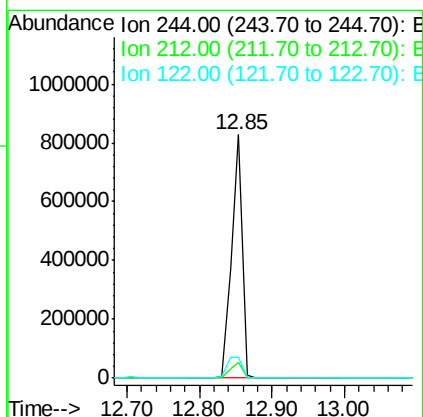
RT: 12.85 min Scan# 942

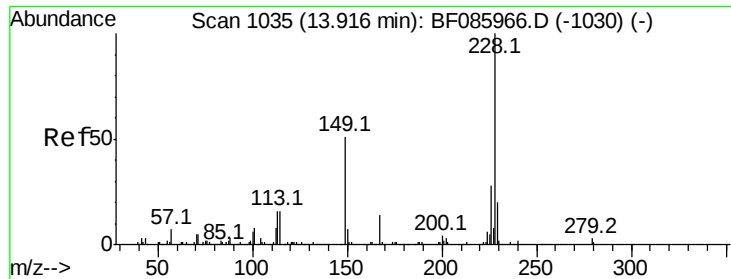
Delta R.T. -0.02 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Tgt Ion:	244	Resp:	839339
Ion Ratio	Lower	Upper	
244	100		
212	6.7	6.1	9.1
122	8.7	10.2	15.4#





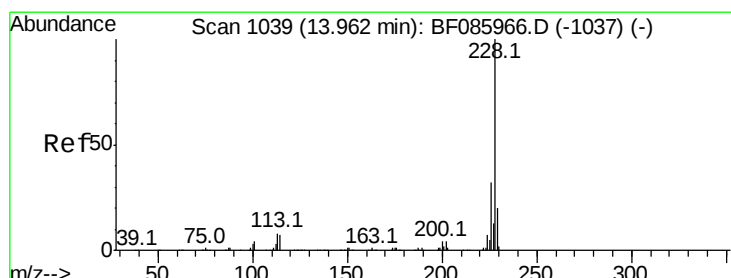
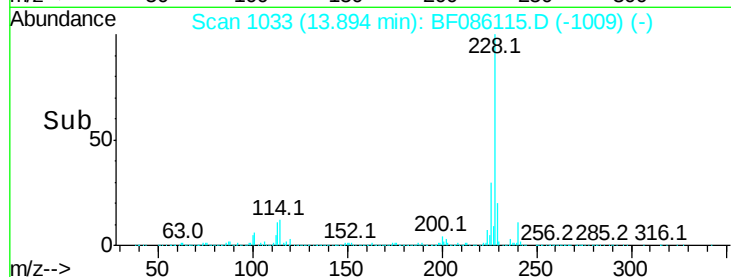
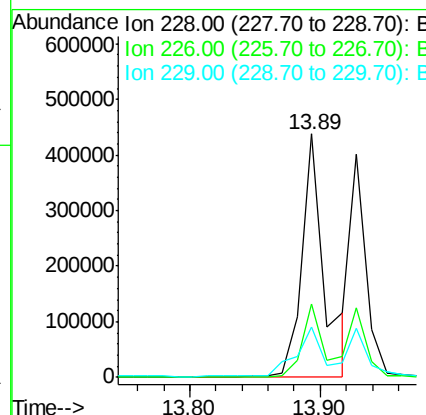
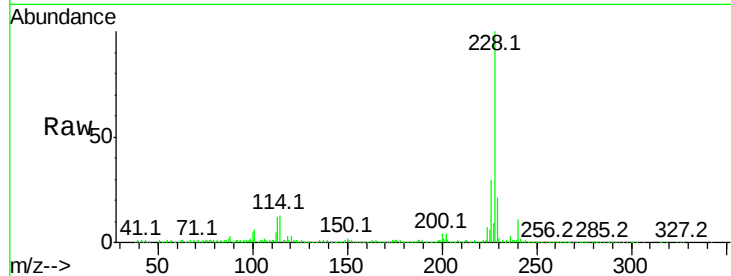
#80
Benzo(a)anthracene
Concen: 37.17 ng
RT: 13.89 min Scan# 1033
Delta R.T. -0.02 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Instrument :
BNA_F
ClientSampleId :
DUP-032916

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	22.1	33.1
229	20.6	16.2	24.4

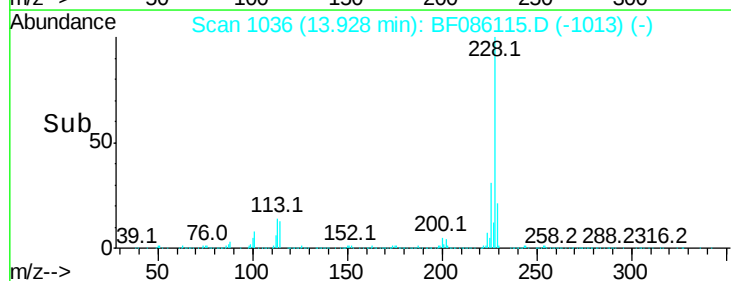
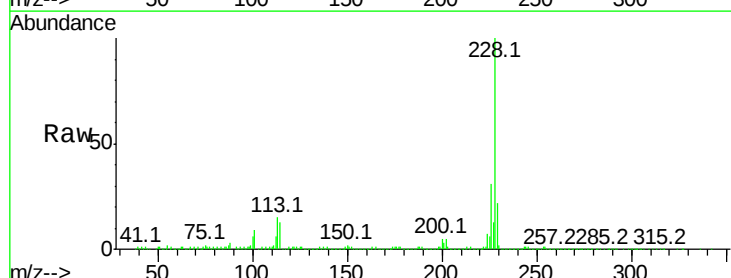
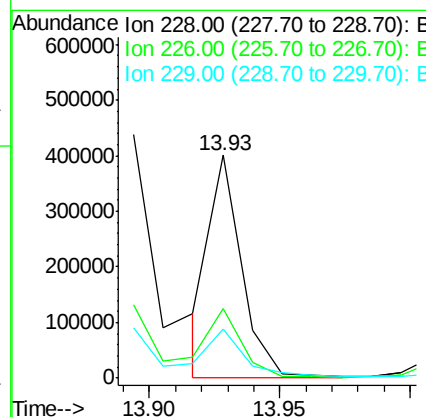
Manual Integrations
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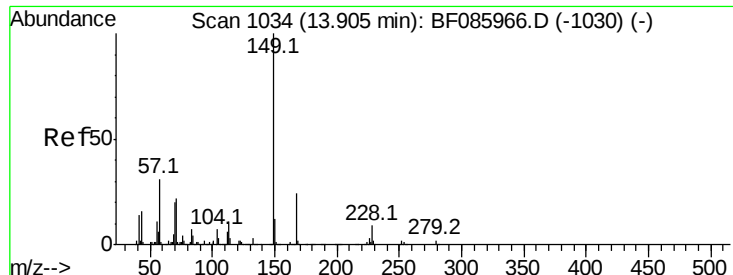
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#82
Chrysene
Concen: 24.96 ng
RT: 13.93 min Scan# 1036
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	22.1	15.7	23.5





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.10 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Instrument :

BNA_F

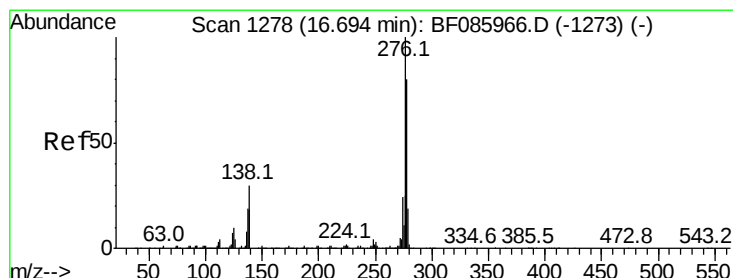
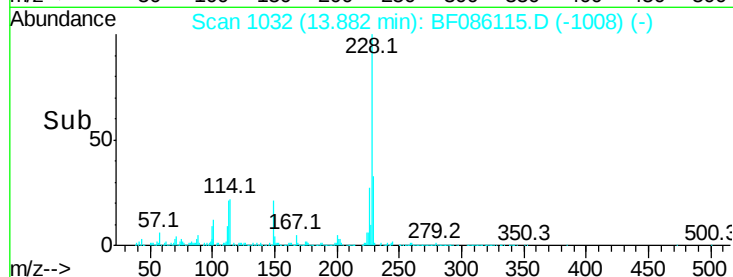
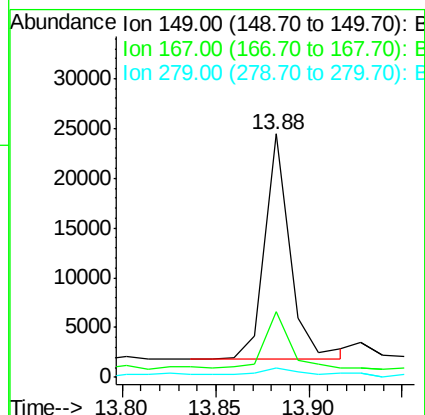
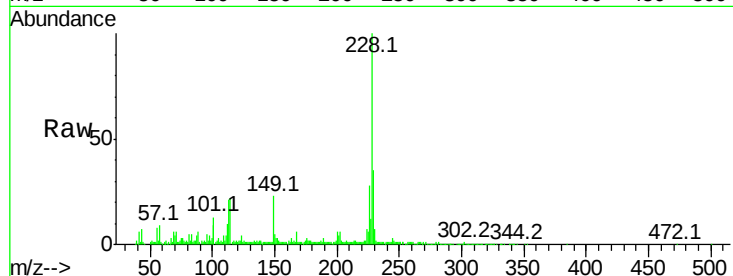
ClientSampleId :

DUP-032916

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.1	19.4	29.2
279	3.9	1.5	2.3

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 16.97 ng

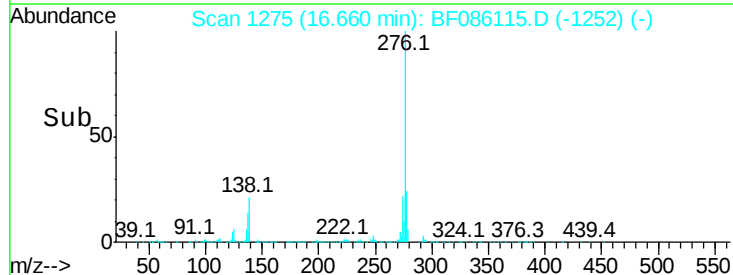
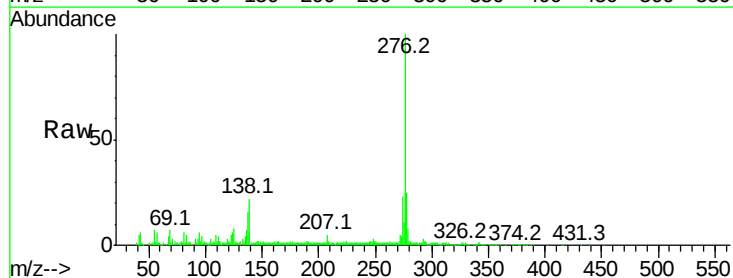
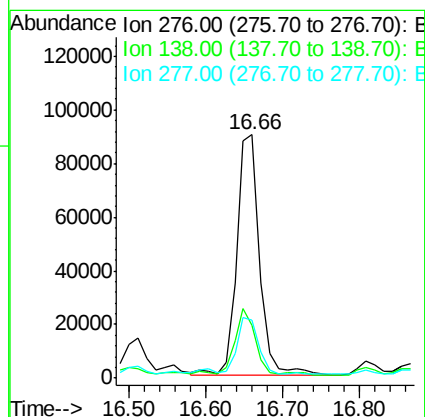
RT: 16.66 min Scan# 1275

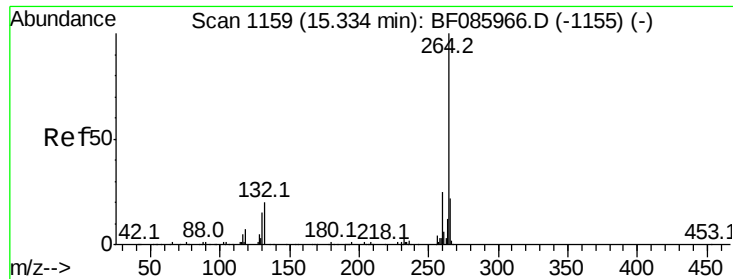
Delta R.T. -0.03 min

Lab File: BF086115.D

Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.4	24.2	36.4
277	22.5	20.0	30.0





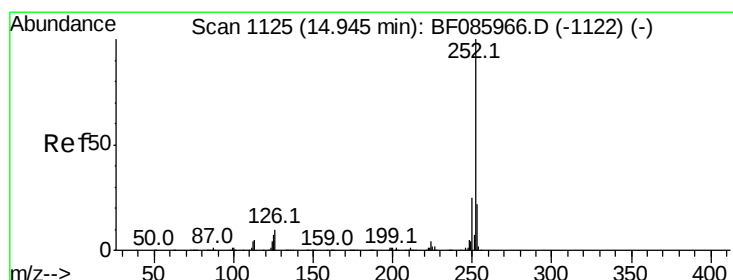
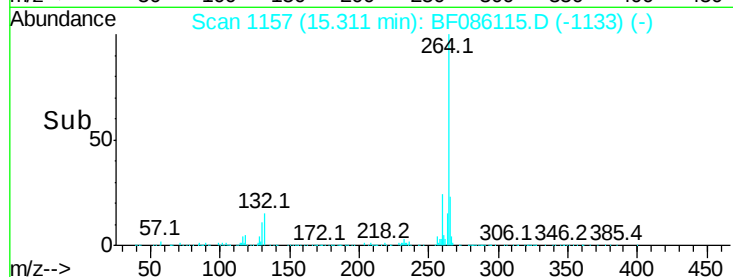
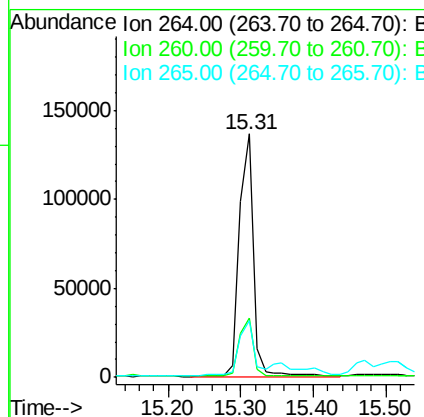
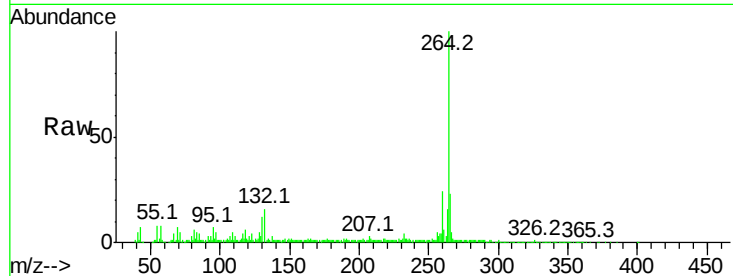
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Instrument :
BNA_F
ClientSampleId :
DUP-032916

Tot Ion	Ratio	Resp	Lower	Upper
264	100	184247		
260	24.2		19.4	29.2
265	23.3		17.2	25.8

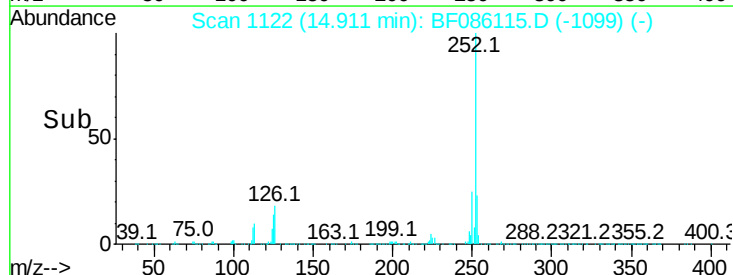
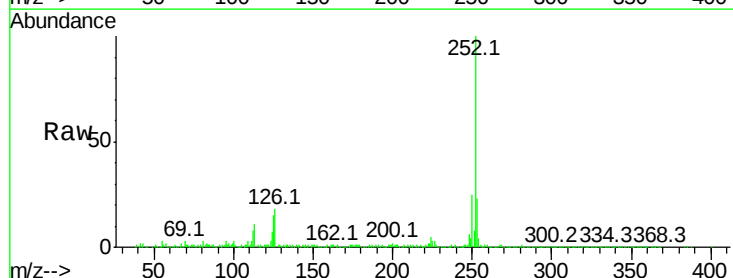
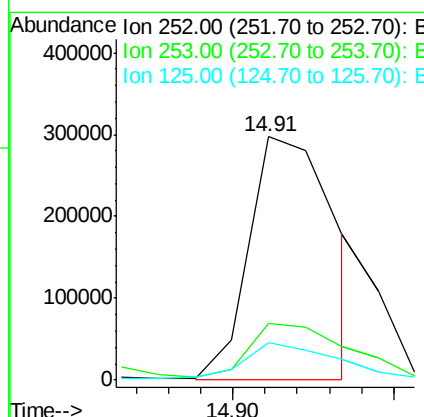
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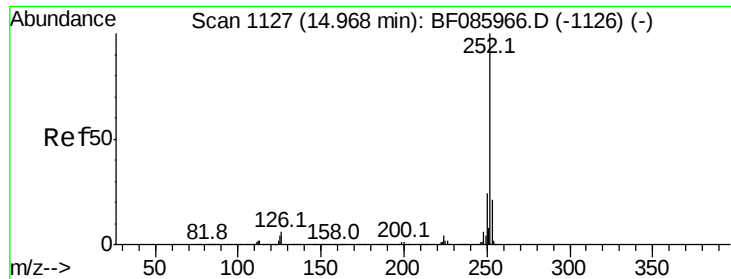
Sohil
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#87
Benzo(b)fluoranthene
Concen: 47.61 ng m
RT: 14.91 min Scan# 1122
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	551820		
253	23.1		17.6	26.4
125	15.2		10.3	15.5





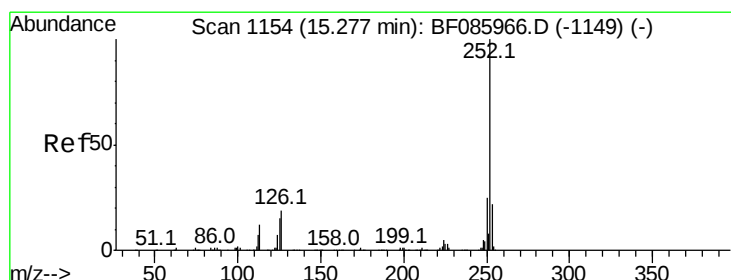
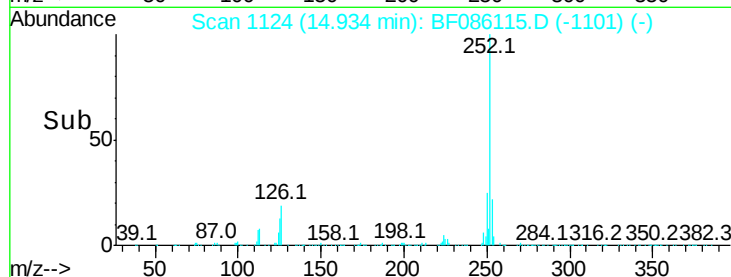
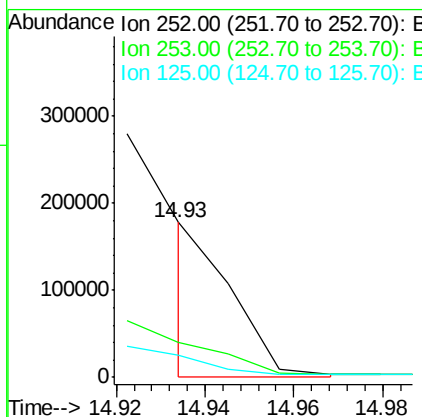
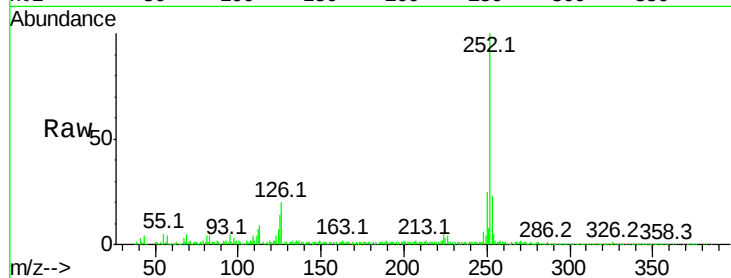
#88
Benzo(k)fluoranthene
Concen: 8.06 ng m
RT: 14.93 min Scan# 1124
Delta R.T. -0.03 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Instrument :
BNA_F
ClientSampleId :
DUP-032916

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	14.5	7.7	11.5

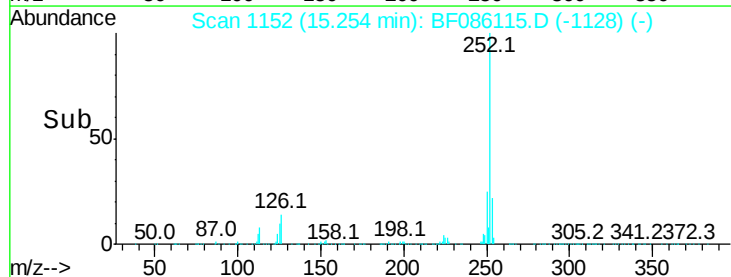
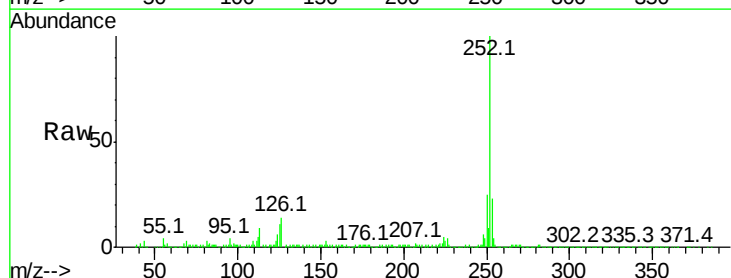
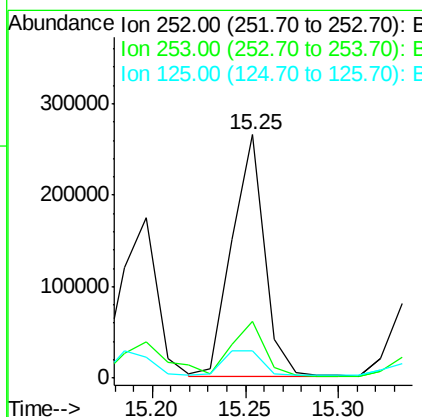
Manual Integrations
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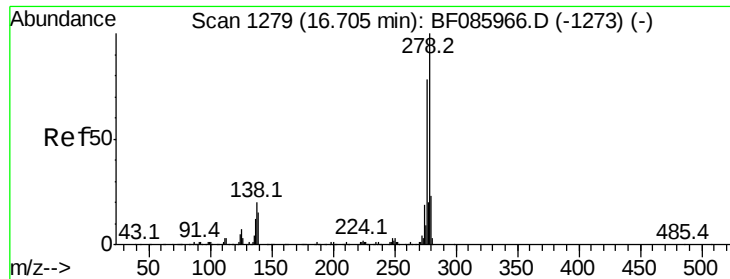
Sohil
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#89
Benzo(a)pyrene
Concen: 31.36 ng
RT: 15.25 min Scan# 1152
Delta R.T. -0.02 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.0
125	11.0	10.3	15.5





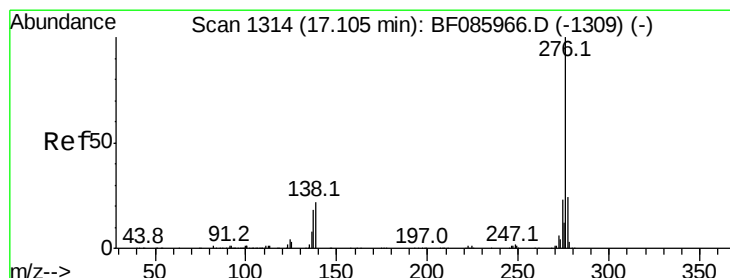
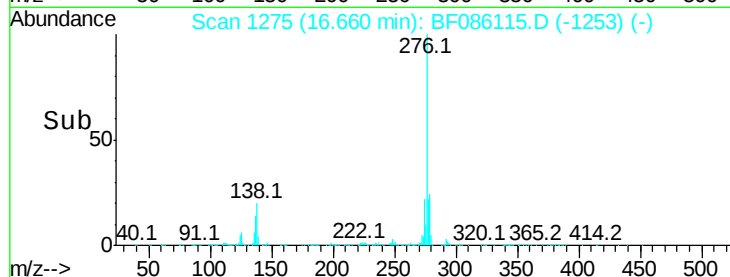
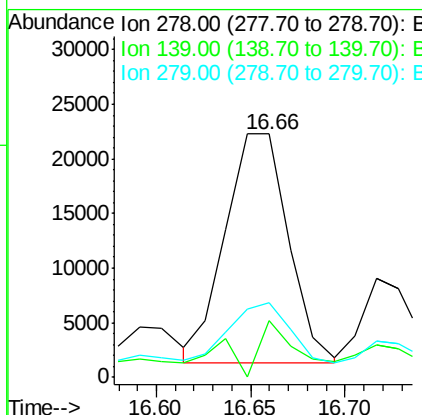
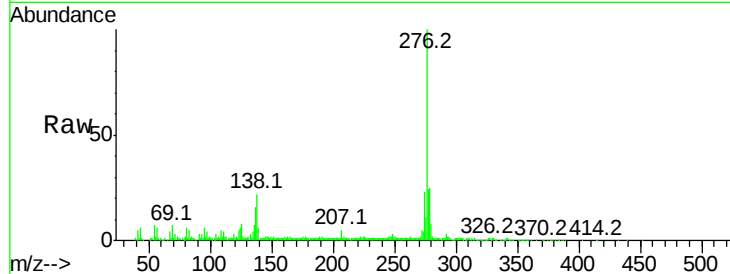
#90
Dibenzo(a,h)anthracene
Concen: 5.89 ng/mL
RT: 16.66 min Scan# 1275
Delta R.T. -0.05 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Instrument :
BNA_F
ClientSampleId :
DUP-032916

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.3	14.4	21.6#
279	30.7	19.1	28.7#

Manual Integrations
APPROVED

Sohil
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#91
Benzo(g,h,i)perylene
Concen: 21.12 ng/mL
RT: 17.06 min Scan# 1310
Delta R.T. -0.05 min
Lab File: BF086115.D
Acq: 6 Apr 2016 23:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.8	28.2
138	25.7	22.6	34.0

