

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042016\
 Data File : BF086329.D
 Acq On : 21 Apr 2016 1:01
 Operator : UM/SJ
 Sample : H2601-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)G

Manual Integrations
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Quant Time: Apr 21 02:10:50 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 20 15:45:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	231488	20.00	ng	-0.03
21) Naphthalene-d8	8.16	136	792462	20.00	ng	-0.02
38) Acenaphthene-d10	9.90	164	289519	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	490979	20.00	ng	-0.02
75) Chrysene-d12	14.04	240	292334	20.00	ng	-0.01
86) Perylene-d12	15.47	264	296548	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1525756	115.00	ng	-0.01
7) Phenol-d6	6.50	99	1799913	103.67	ng	-0.02
23) Nitrobenzene-d5	7.42	82	1115193	80.59	ng	-0.03
41) 2,4,6-Tribromophenol	10.69	330	270314	119.79	ng	-0.03
44) 2-Fluorobiphenyl	9.23	172	1452626	99.55	ng	-0.03
78) Terphenyl-d14	12.98	244	1089275	88.69	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.17	128	288907	7.65	ng	98
37) 2-Methylnaphthalene	8.86	142	111907	4.80	ng	98
48) Acenaphthylene	9.77	152	560841	20.85	ng	98
49) Dimethylphthalate	9.62	163	148725	6.75	ng	99
51) Acenaphthene	9.94	154	275837	17.48	ng	100
54) Dibenzofuran	10.11	168	282690	13.17	ng	98
57) Fluorene	10.45	166	430398	27.07	ng	98
70) Phenanthrene	11.42	178	3082271	132.48	ng	100
71) Anthracene	11.47	178	1527178	61.29	ng	99
72) Carbazole	11.62	167	449483	19.06	ng	98
74) Fluoranthene	12.61	202	4717025	218.66	ng	98
77) Pyrene	12.84	202	4241390	195.58	ng	97
80) Benzo(a)anthracene	14.03	228	2321906	150.78	ng	95
82) Chrysene	14.07	228	1941028m	116.61	ng	
85) Indeno(1,2,3-cd)pyrene	16.90	276	1281157	74.85	ng	94
87) Benzo(b)fluoranthene	15.07	252	2389481m	139.31	ng	
88) Benzo(k)fluoranthene	15.09	252	791959m	54.85	ng	
89) Benzo(a)pyrene	15.43	252	1700429	107.56	ng	98
90) Dibenzo(a,h)anthracene	16.90	278	259768m	18.82	ng	
91) Benzo(a,h,i)perylene	17.33	276	1223997	92.51	ng	96

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

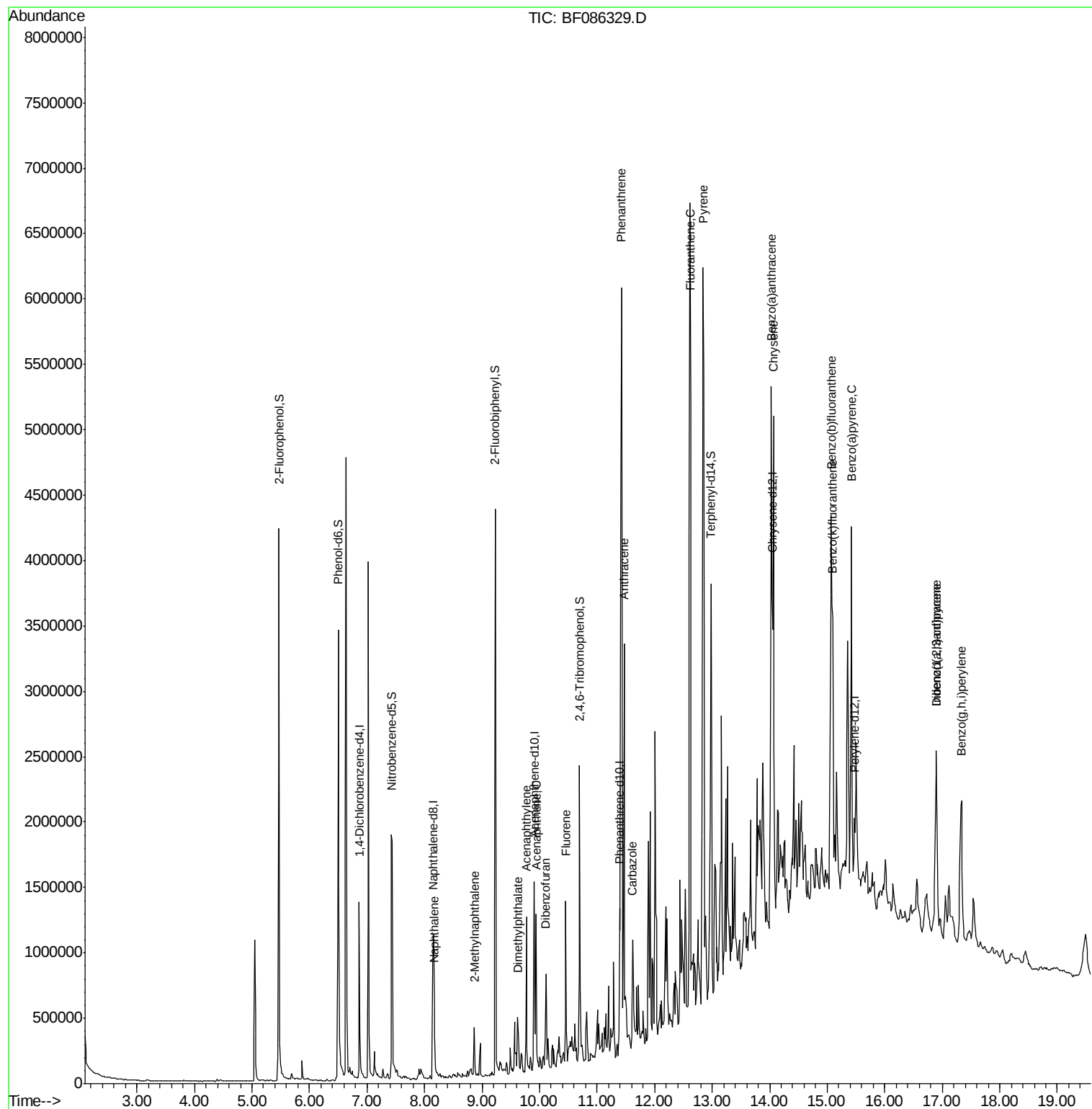
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042016\
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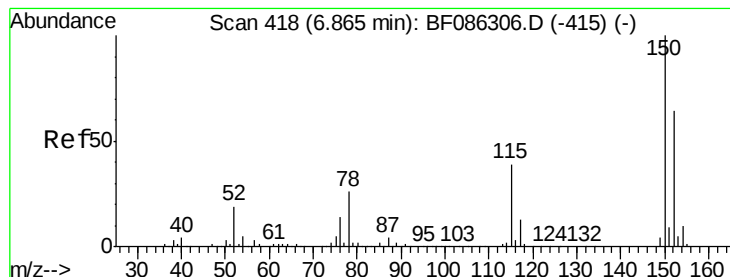
Instrument :
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RODNEY-AVE-PS(0-2)G

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Quant Time: Apr 21 02:10:50 2016
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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 418

Delta R.T. -0.03 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

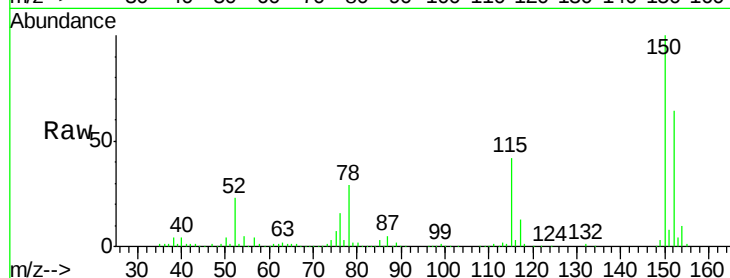
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RODNEY-AVE-PS(0-2)G

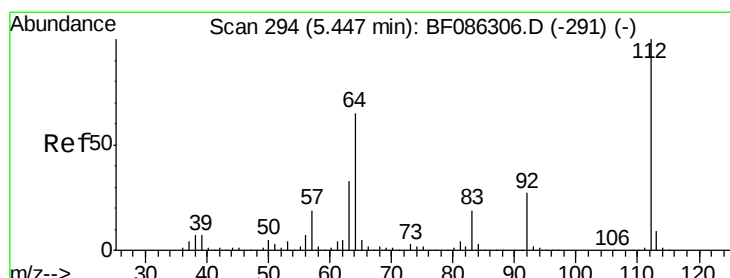
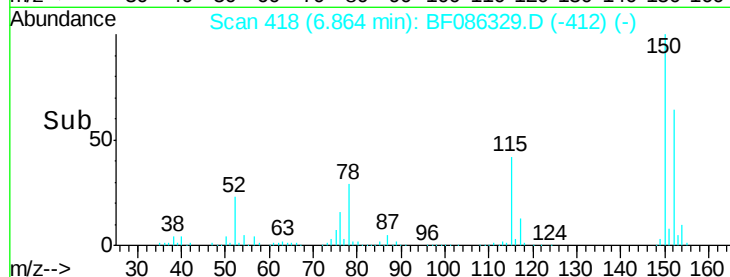
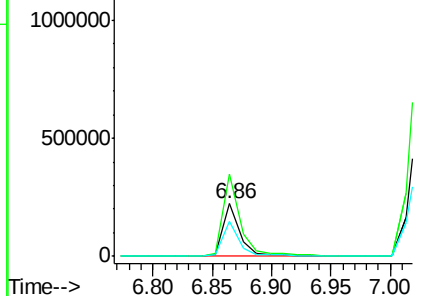
Tot Ion:	152	Resp:	231488
Ion Ratio	Lower	Upper	
152	100		
150	155.9	124.1	186.1
115	65.1	43.9	65.9

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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: 115.00 ng

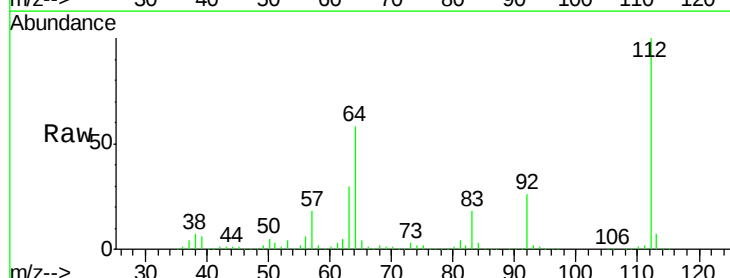
RT: 5.47 min Scan# 296

Delta R.T. -0.01 min

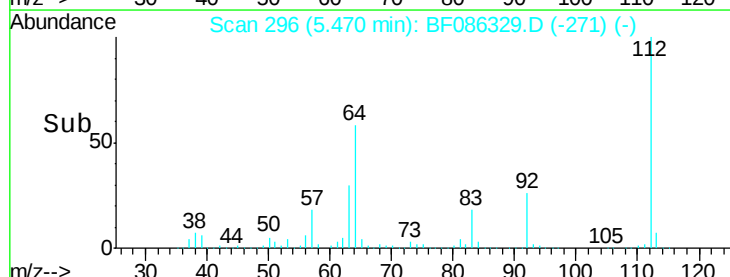
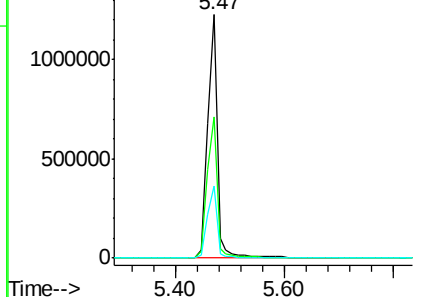
Lab File: BF086329.D

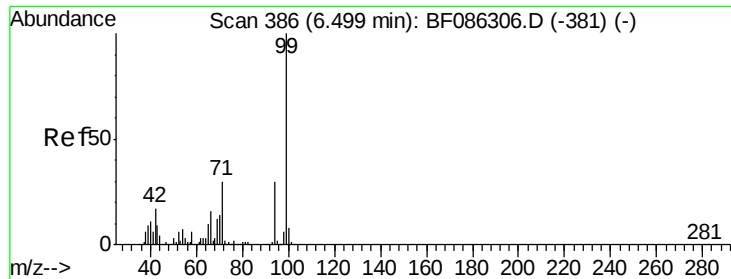
Acq: 21 Apr 2016 1:01

Tgt Ion:	112	Resp:	1525756
Ion Ratio	Lower	Upper	
112	100		
64	58.2	48.1	72.1
63	29.5	25.5	38.3



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: 103.67 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.02 min

Lab File: BF086329.D

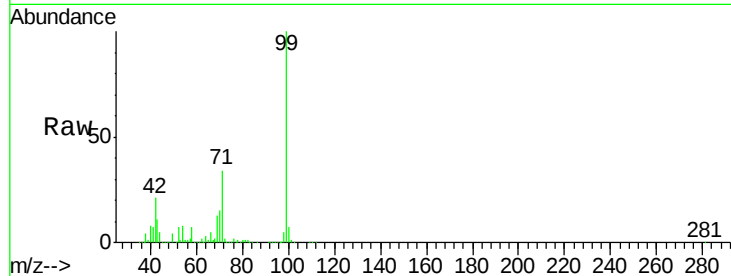
Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)G



Tot Ion: 99 Resp: 1799913

Ion Ratio Lower Upper

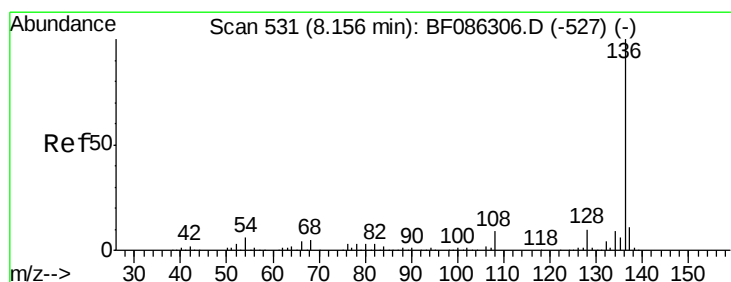
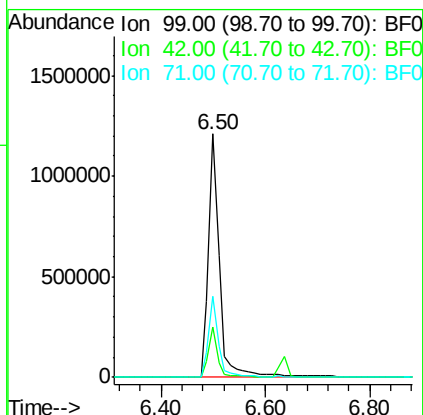
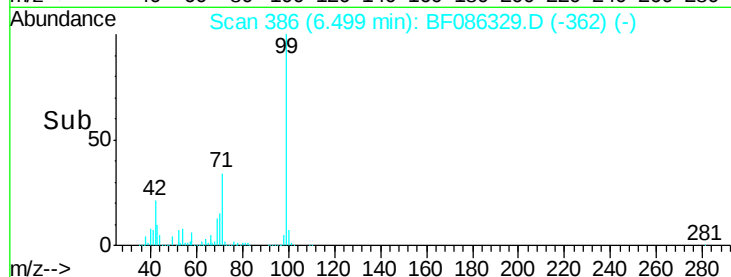
99 100

42 20.9 15.4 23.2

71 33.5 25.6 38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 531

Delta R.T. -0.02 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Tgt Ion: 136 Resp: 792462

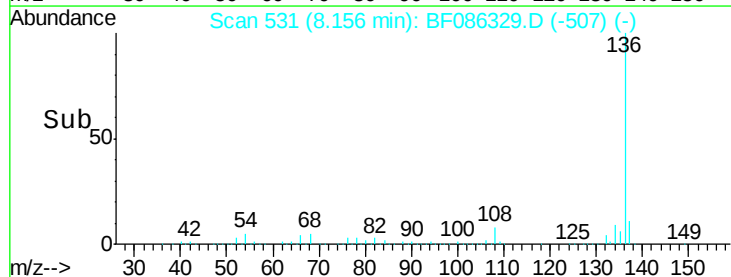
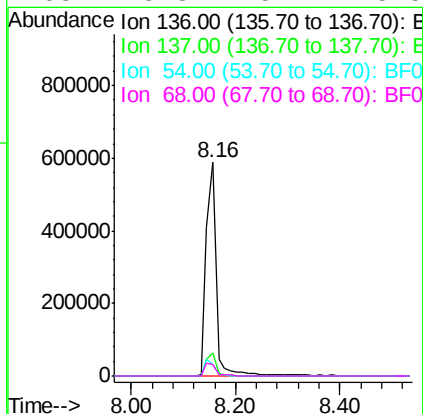
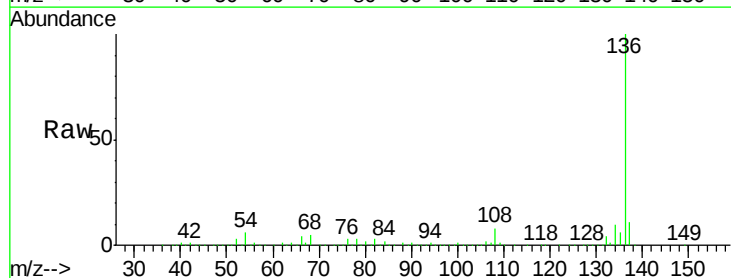
Ion Ratio Lower Upper

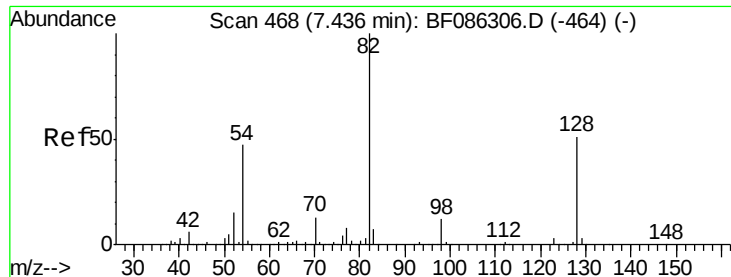
136 100

137 10.8 9.1 13.7

54 5.7 7.3 10.9#

68 5.3 5.7 8.5#





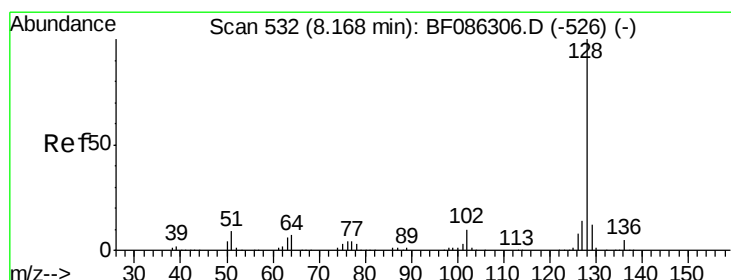
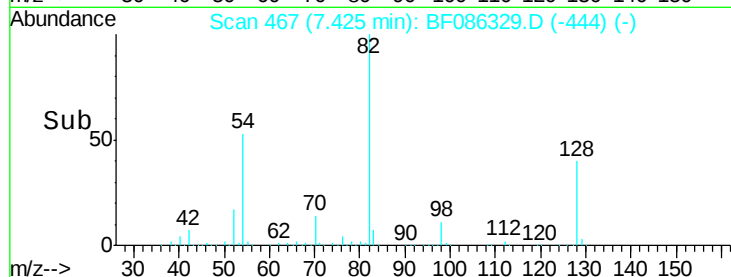
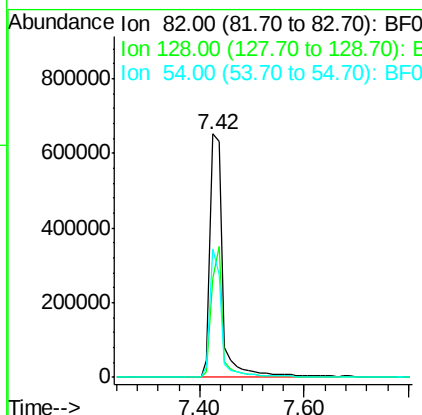
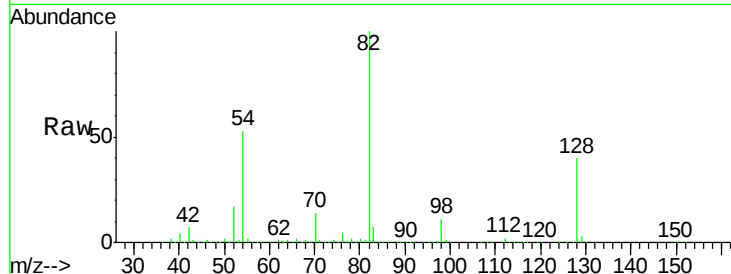
#23
Nitrobenzene-d5
Concen: 80.59 ng
RT: 7.42 min Scan# 467
Delta R.T. -0.03 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)G

Tot Ion: 82 Resp: 1115193
Ion Ratio Lower Upper
82 100
128 40.5 35.4 53.2
54 52.6 43.4 65.0

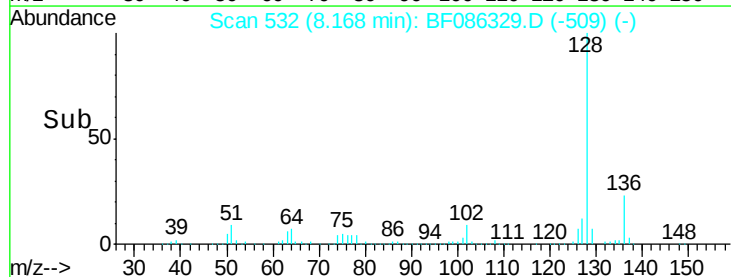
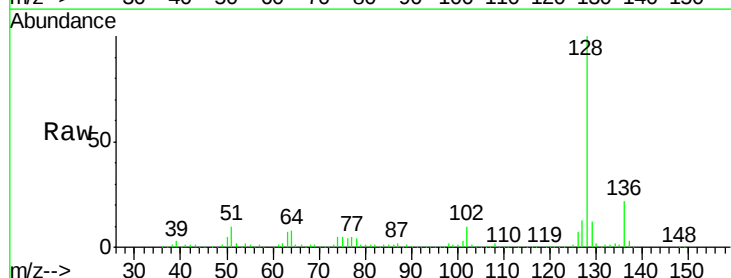
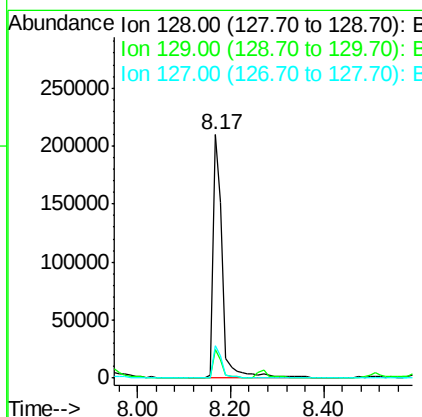
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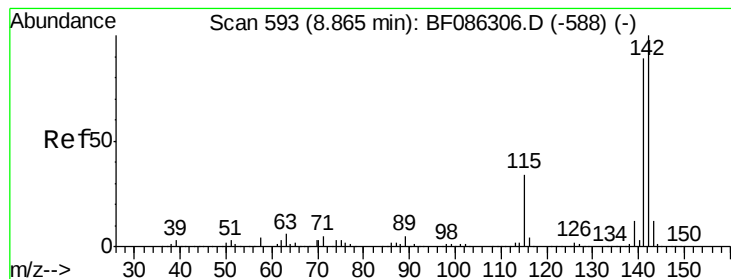
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#31
Naphthalene
Concen: 7.65 ng
RT: 8.17 min Scan# 532
Delta R.T. -0.03 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Tgt Ion: 128 Resp: 288907
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 13.1 11.4 17.2





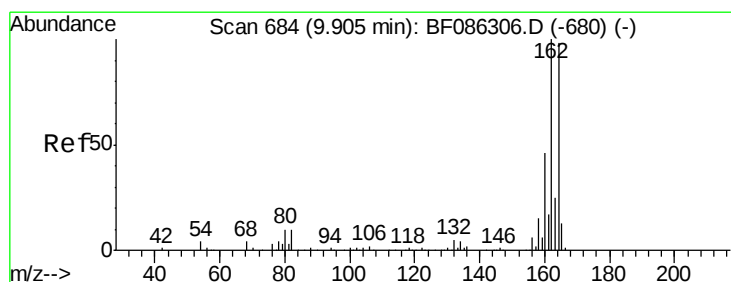
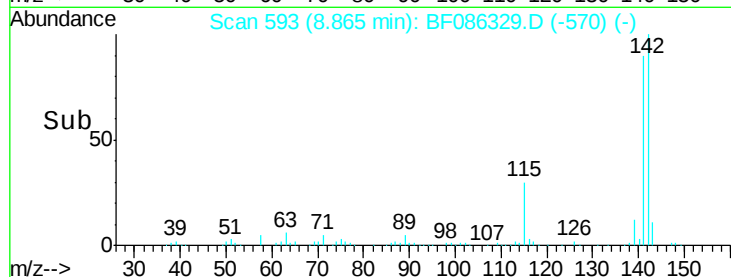
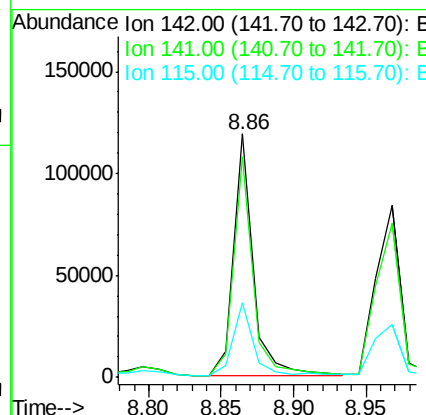
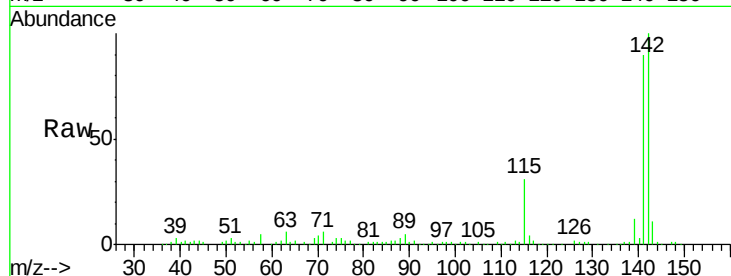
#37
2-Methylnaphthalene
Concen: 4.80 ng
RT: 8.86 min Scan# 593
Delta R.T. -0.03 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)G

Tot Ion	Ratio	Resp	Lower	Upper
142	100	111907		
141	90.5	71.1	106.7	
115	30.6	25.1	37.7	

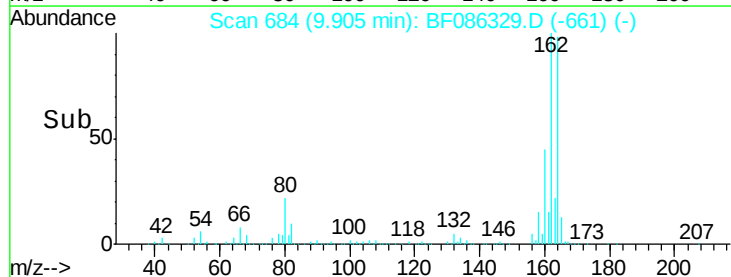
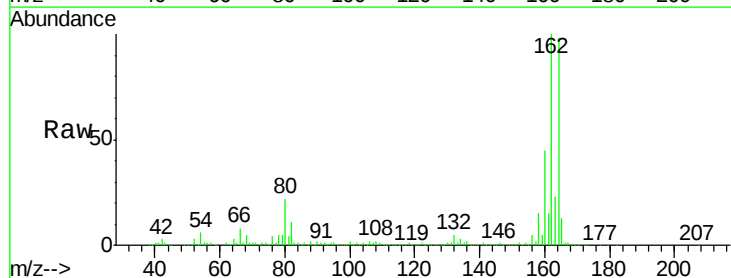
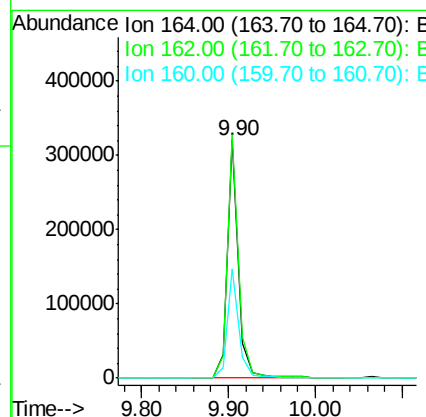
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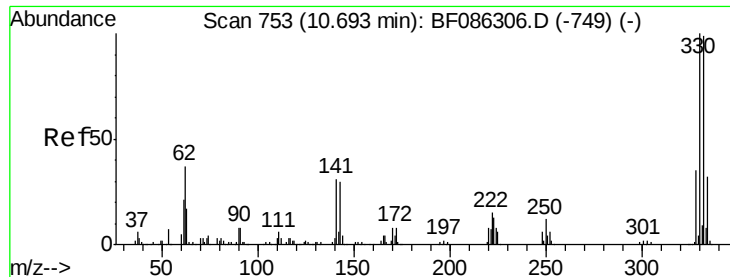
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.90 min Scan# 684
Delta R.T. -0.03 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	289519		
162	102.3	82.8	124.2	
160	46.1	38.9	58.3	





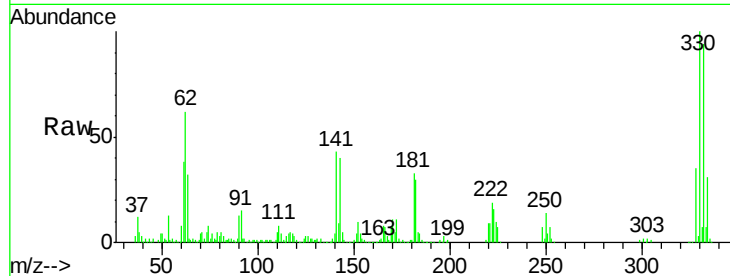
#41
 2,4,6-Tribromophenol
 Concen: 119.79 ng
 RT: 10.69 min Scan# 753
 Delta R.T. -0.03 min
 Lab File: BF086329.D
 Acq: 21 Apr 2016 1:01

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)G

Tot Ion	Ratio	Resp	Lower	Upper
330	100	270314		
332	94.4		78.7	118.1
141	41.4		28.6	42.8

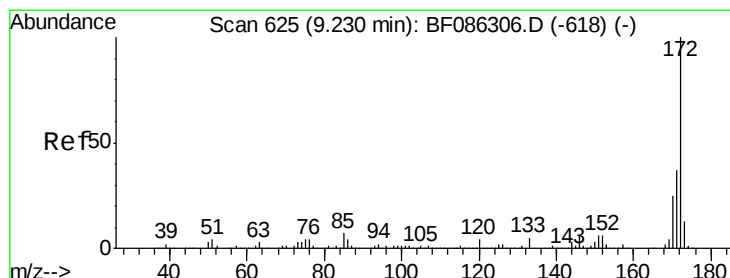
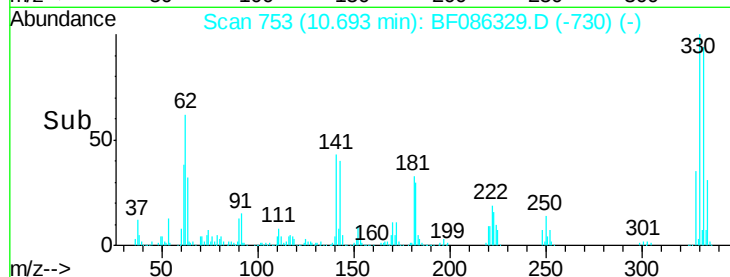
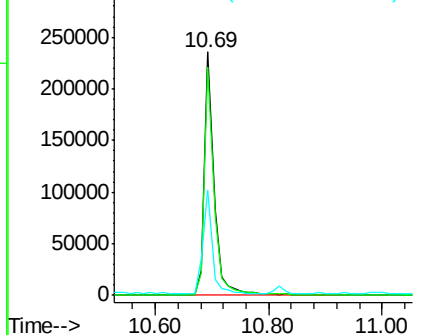
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Abundance

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

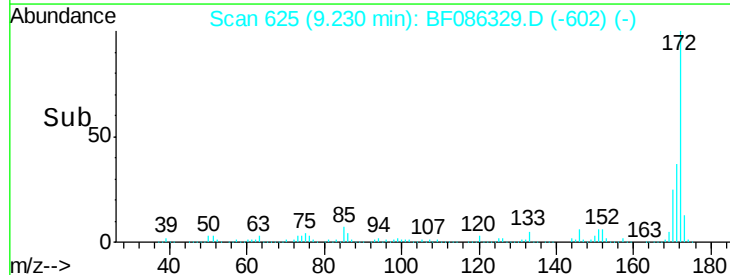
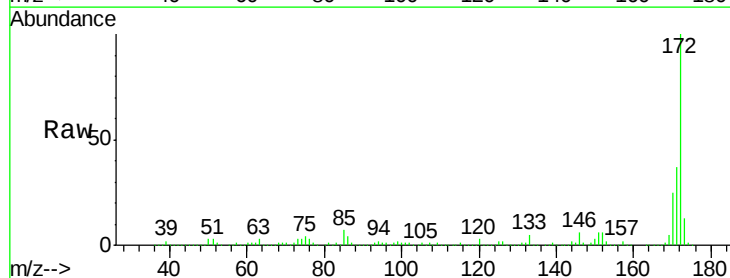
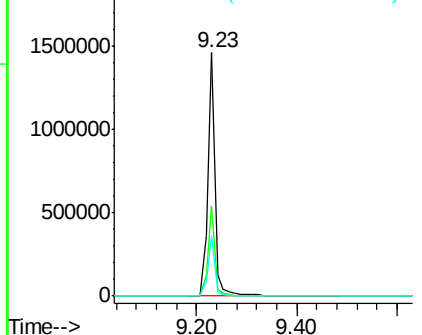


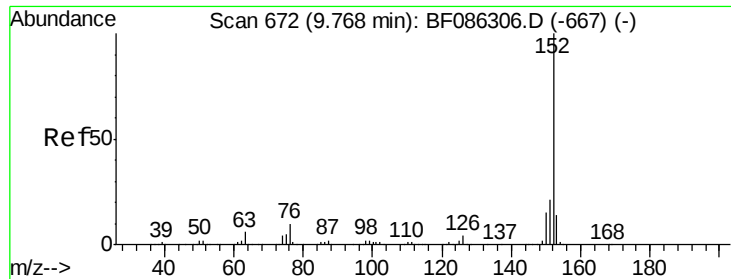
#44
 2-Fluorobiphenyl
 Concen: 99.55 ng
 RT: 9.23 min Scan# 625
 Delta R.T. -0.03 min
 Lab File: BF086329.D
 Acq: 21 Apr 2016 1:01

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1452626		
171	36.7		29.1	43.7
170	24.9		19.9	29.9

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: 20.85 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.03 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

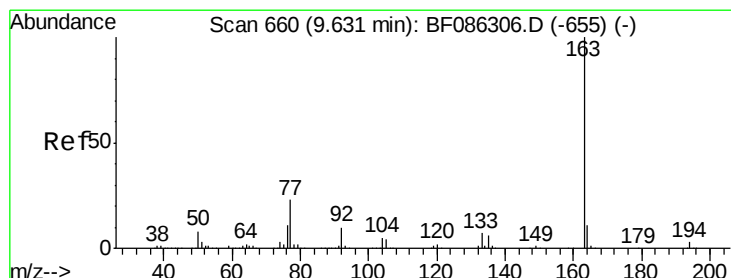
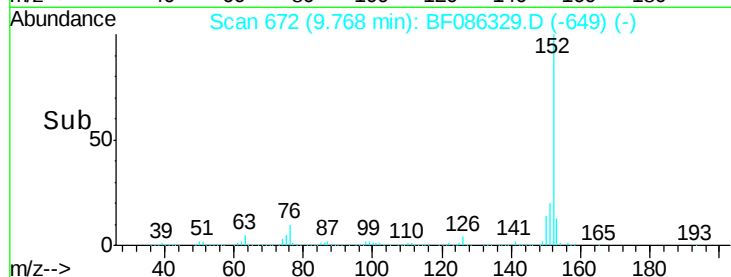
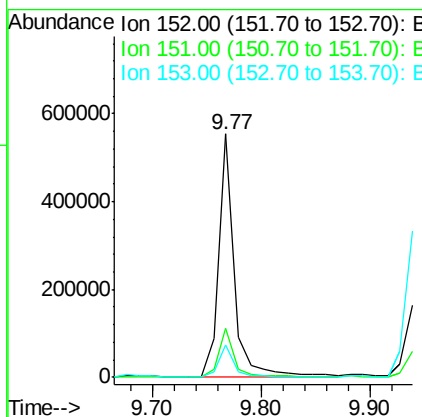
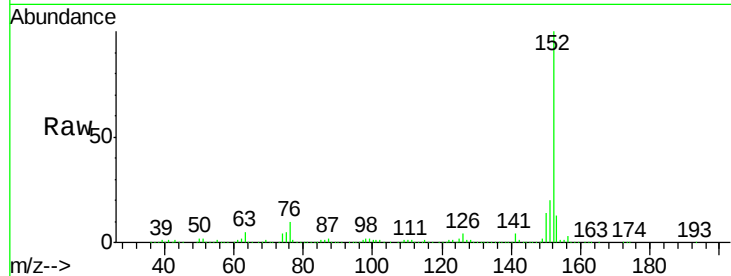
ClientSampleId :

RODNEY-AVE-PS(0-2)G

Tot Ion:	152	Resp:	560841
Ion Ratio		Lower	Upper
152	100		
151	20.1	17.2	25.8
153	13.4	10.7	16.1

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#49

Dimethylphthalate

Concen: 6.75 ng

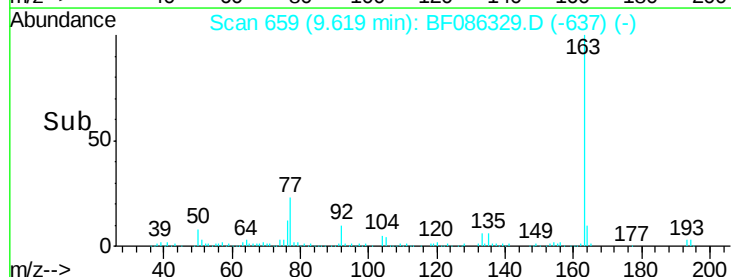
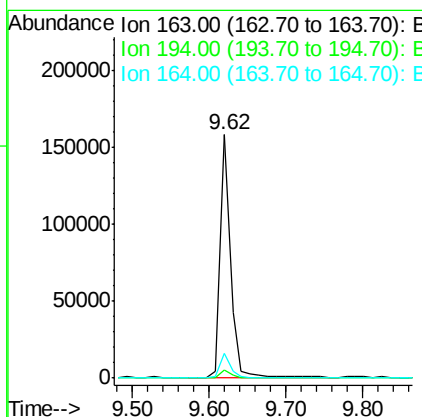
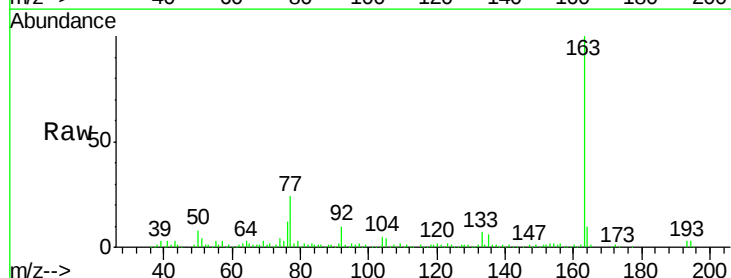
RT: 9.62 min Scan# 659

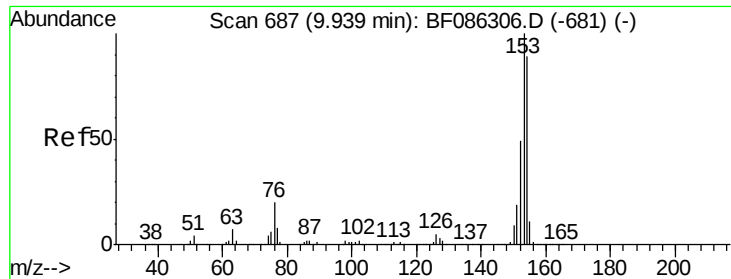
Delta R.T. -0.05 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Tgt Ion:	163	Resp:	148725
Ion Ratio		Lower	Upper
163	100		
194	3.3	2.8	4.2
164	10.2	8.4	12.6





#51

Acenaphthene

Concen: 17.48 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.03 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

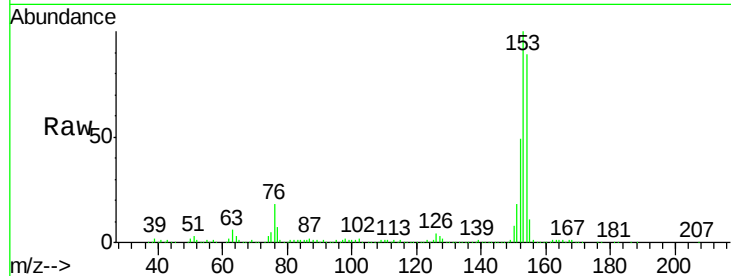
ClientSampleId :

RODNEY-AVE-PS(0-2)G

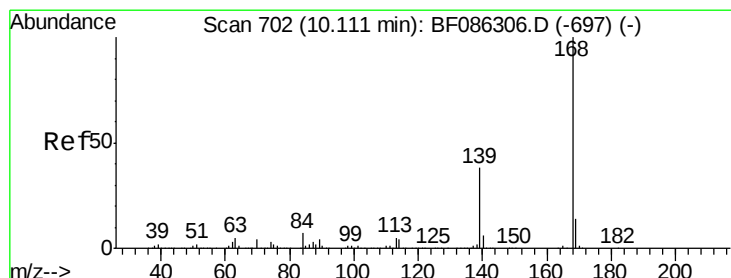
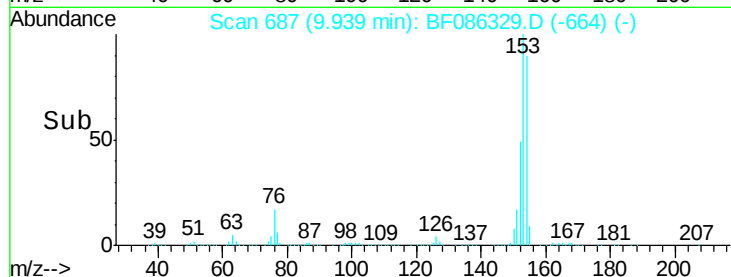
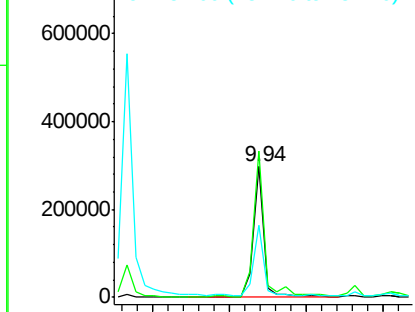
Tot Ion:	154	Resp:	275837
Ion Ratio	Lower	Upper	
154	100		
153	112.1	90.0	135.0
152	55.2	44.3	66.5

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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

Dibenzofuran

Concen: 13.17 ng

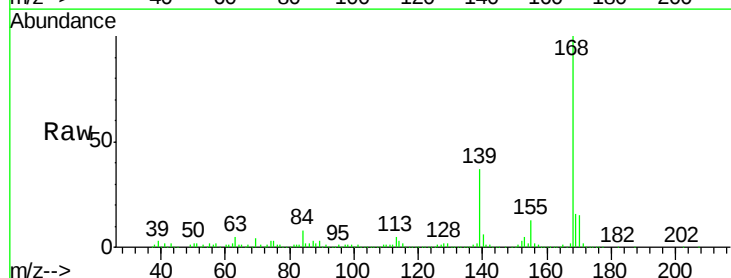
RT: 10.11 min Scan# 702

Delta R.T. -0.03 min

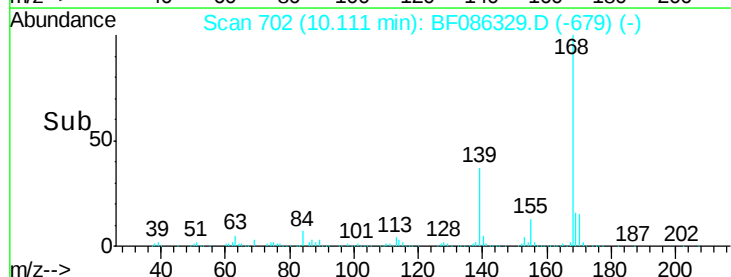
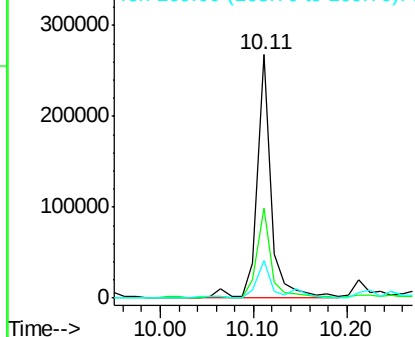
Lab File: BF086329.D

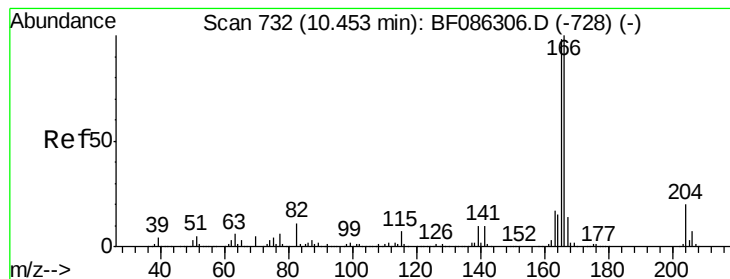
Acq: 21 Apr 2016 1:01

Tgt Ion:	168	Resp:	282690
Ion Ratio	Lower	Upper	
168	100		
139	37.0	29.5	44.3
169	15.6	10.6	16.0



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: 27.07 ng

RT: 10.45 min Scan# 732

Delta R.T. -0.03 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)G

Tot Ion:166 Resp: 430398

Ion Ratio Lower Upper

166 100

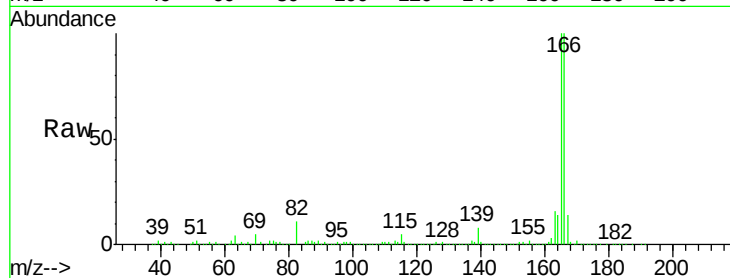
165 100.3 78.6 117.8

167 14.0 10.4 15.6

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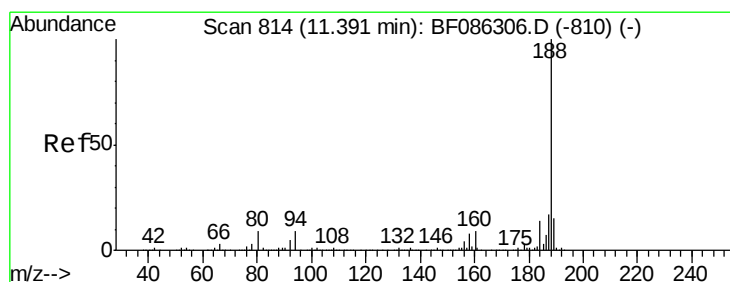
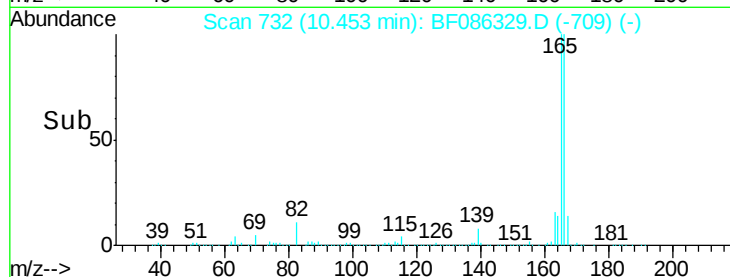
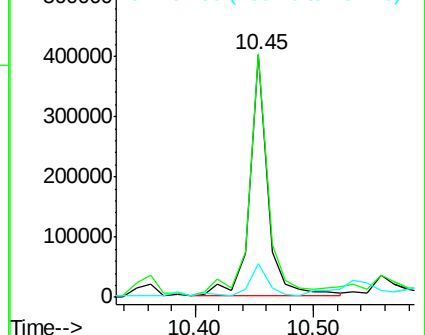
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Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.39 min Scan# 814

Delta R.T. -0.02 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

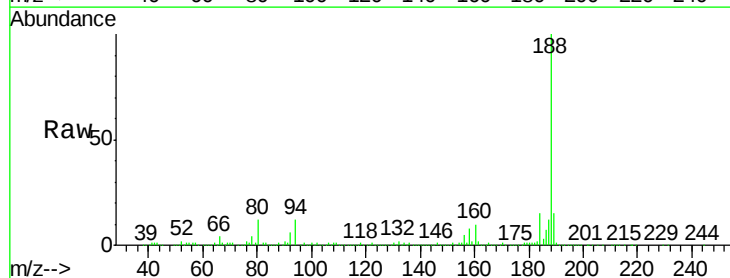
Tgt Ion:188 Resp: 490979

Ion Ratio Lower Upper

188 100

94 11.7 9.8 14.8

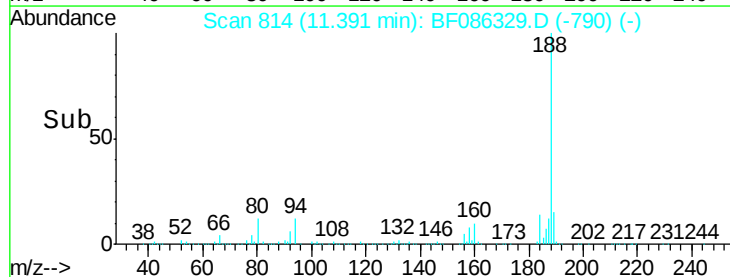
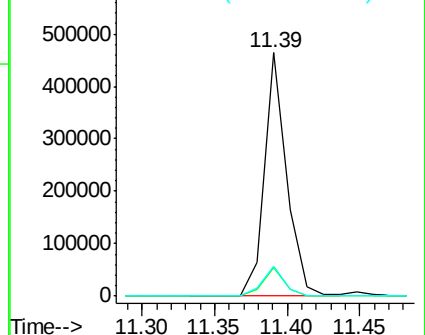
80 12.3 10.5 15.7

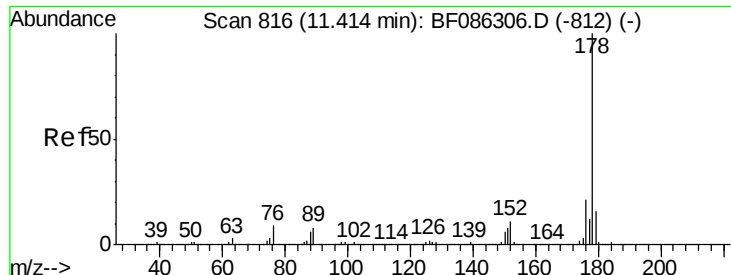


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





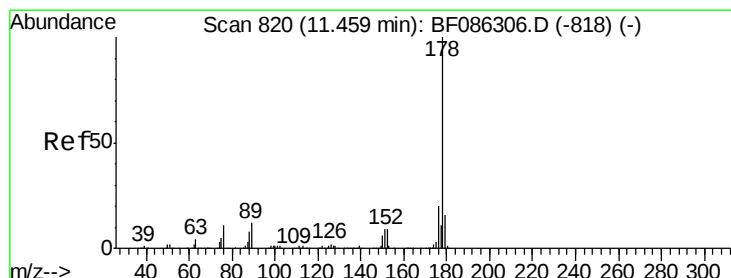
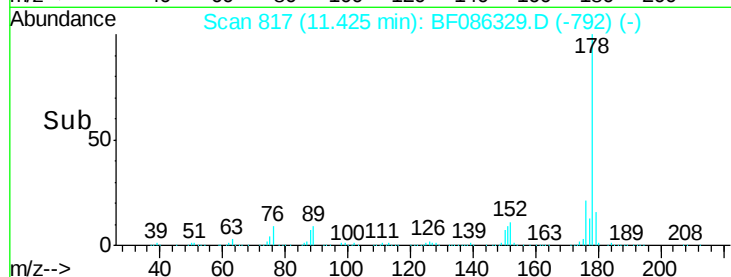
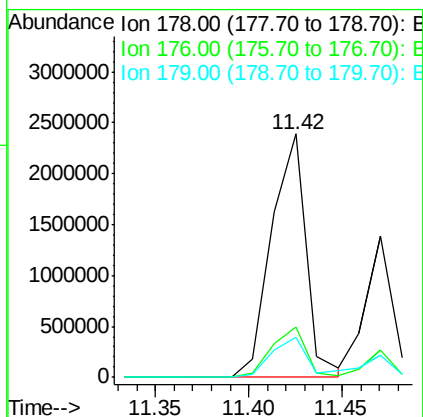
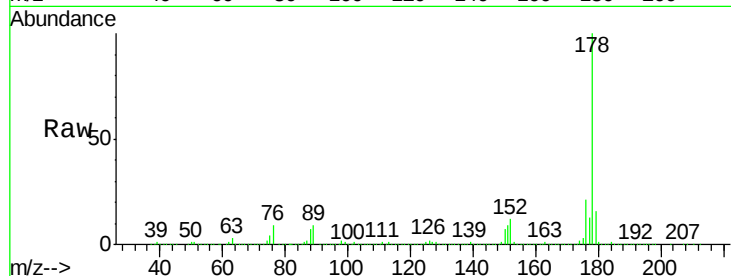
#70
Phenanthrene
Concen: 132.48 ng
RT: 11.42 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)G

Tot Ion:178 Resp: 3082271
Ion Ratio Lower Upper
178 100
176 20.7 16.3 24.5
179 16.2 13.0 19.6

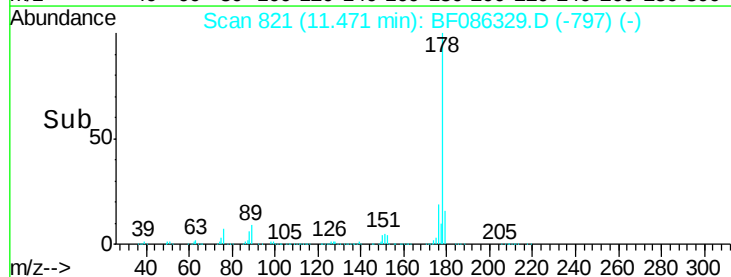
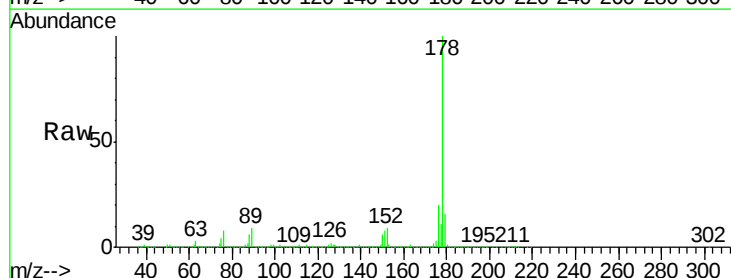
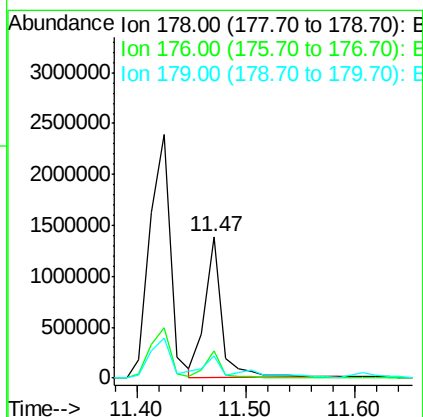
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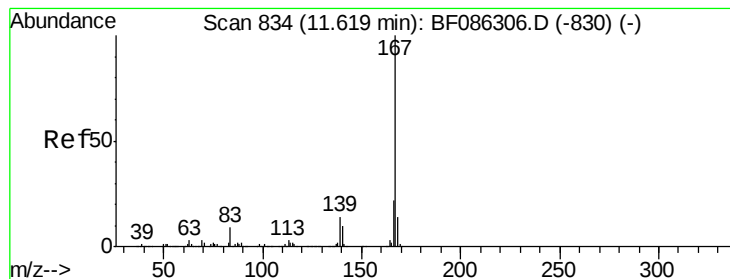
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#71
Anthracene
Concen: 61.29 ng
RT: 11.47 min Scan# 821
Delta R.T. -0.02 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Tgt Ion:178 Resp: 1527178
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 16.0 13.2 19.8





#72

Carbazole

Concen: 19.06 ng

RT: 11.62 min Scan# 834

Delta R.T. -0.02 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

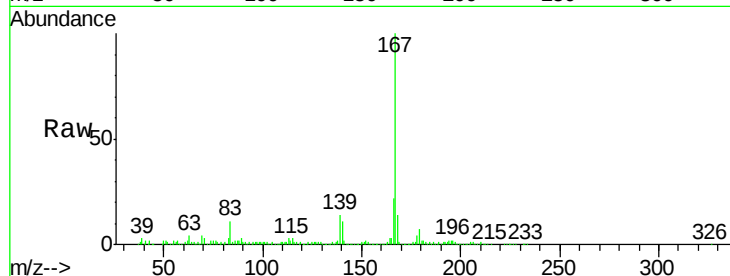
ClientSampleId :

RODNEY-AVE-PS(0-2)G

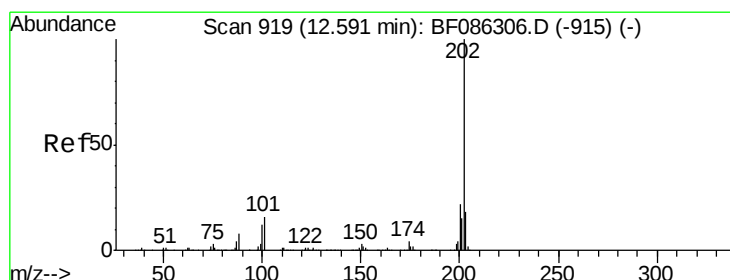
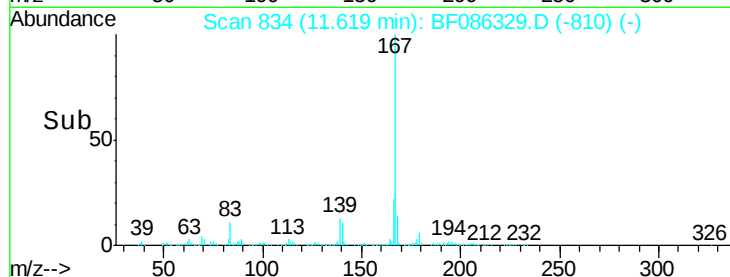
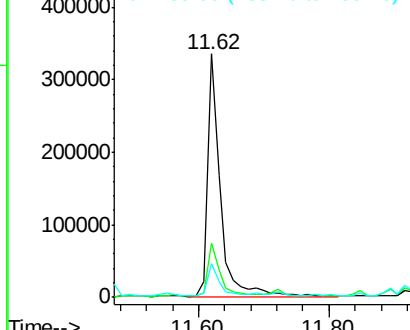
Tot Ion:	167	Resp:	449483
Ion Ratio	Lower	Upper	
167	100		
166	22.2	18.3	27.5
139	13.8	12.3	18.5

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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: 218.66 ng

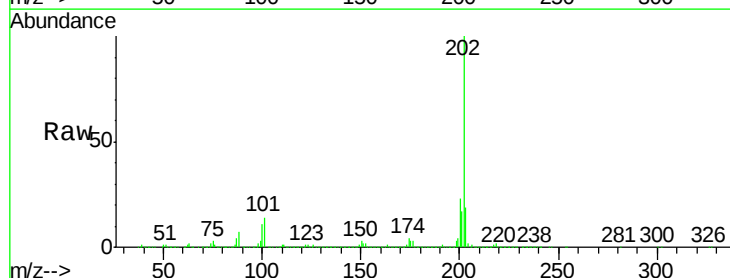
RT: 12.61 min Scan# 921

Delta R.T. -0.01 min

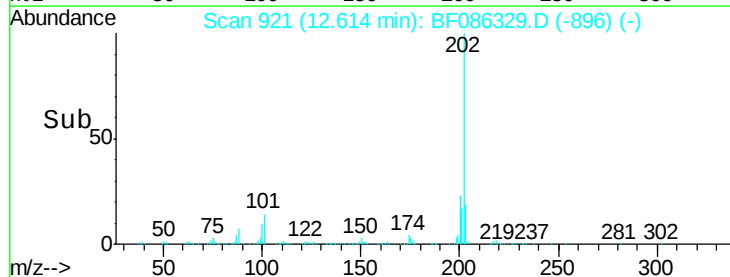
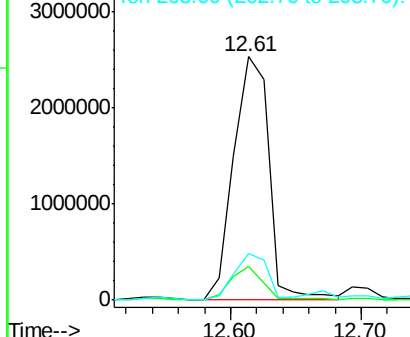
Lab File: BF086329.D

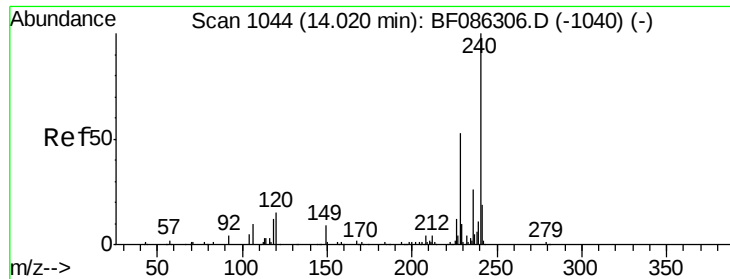
Acq: 21 Apr 2016 1:01

Tgt Ion:	202	Resp:	4717025
Ion Ratio	Lower	Upper	
202	100		
101	13.8	0.0	35.2
203	19.0	0.0	38.2



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

RT: 14.04 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

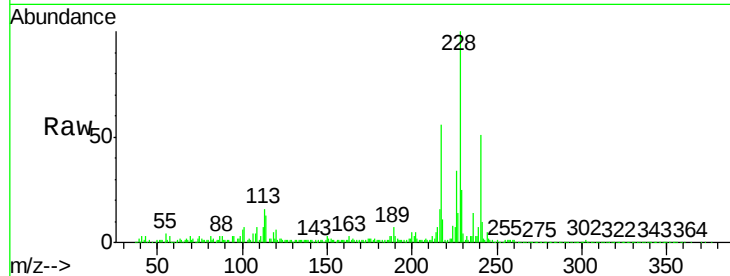
ClientSampleId :

RODNEY-AVE-PS(0-2)G

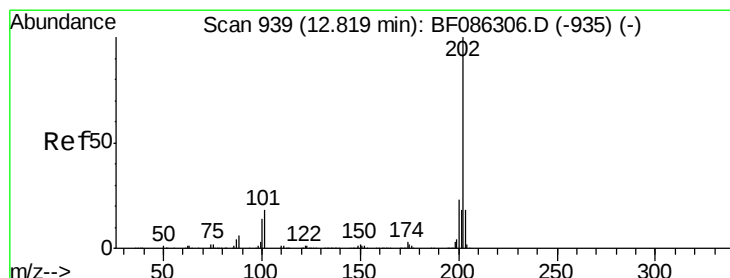
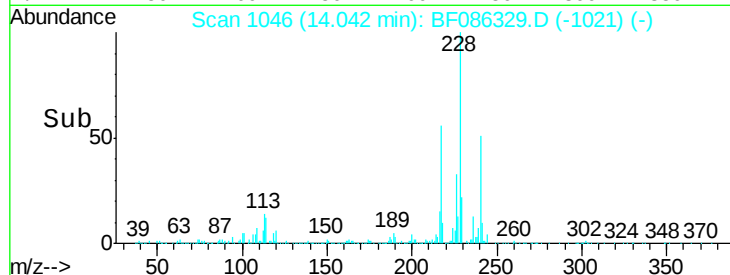
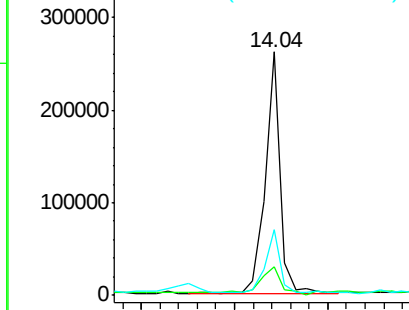
Tot Ion:	240	Resp:	292334
Ion Ratio	Lower	Upper	
240	100		
120	11.9	9.3	13.9
236	26.8	21.1	31.7

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 195.58 ng

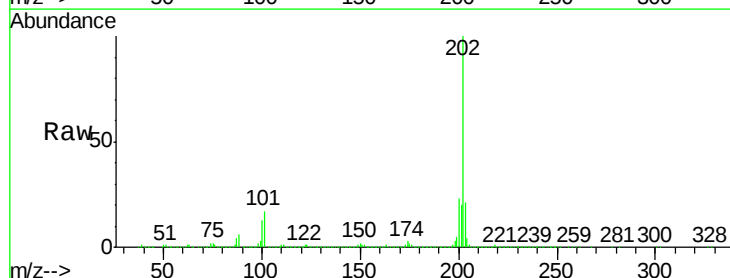
RT: 12.84 min Scan# 941

Delta R.T. -0.01 min

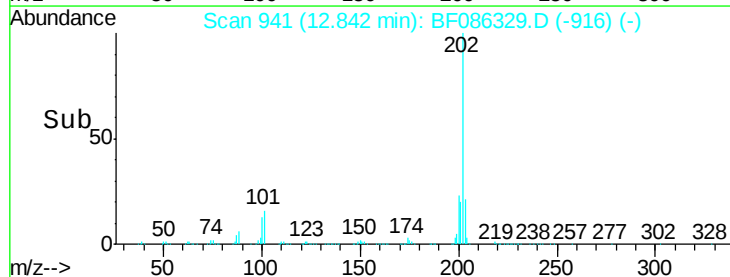
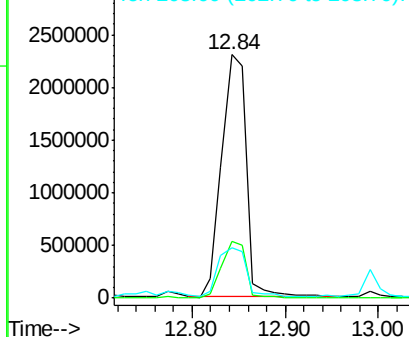
Lab File: BF086329.D

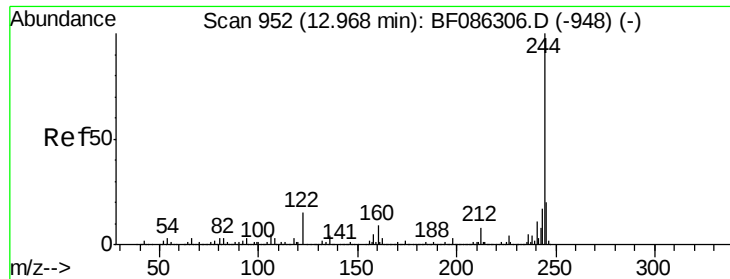
Acq: 21 Apr 2016 1:01

Tgt Ion:	202	Resp:	4241390
Ion Ratio	Lower	Upper	
202	100		
200	23.2	18.3	27.5
203	20.9	14.9	22.3



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 88.69 ng

RT: 12.98 min Scan# 953

Delta R.T. -0.02 min

Lab File: BF086329.D

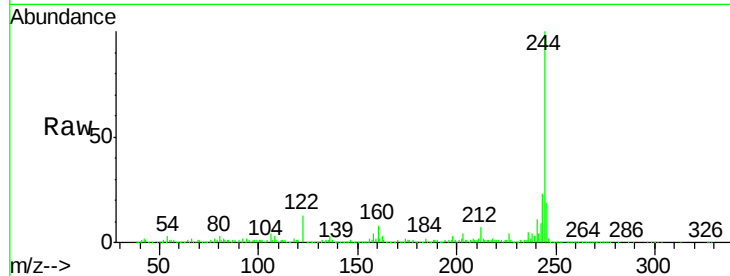
Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

ClientSampleId :

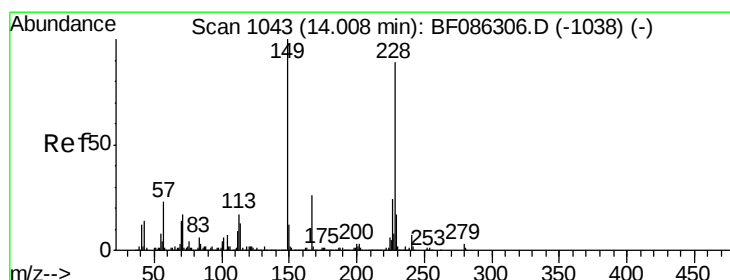
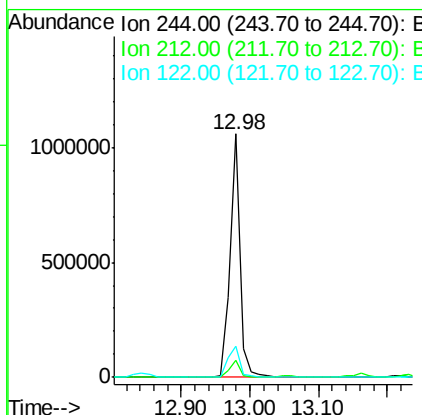
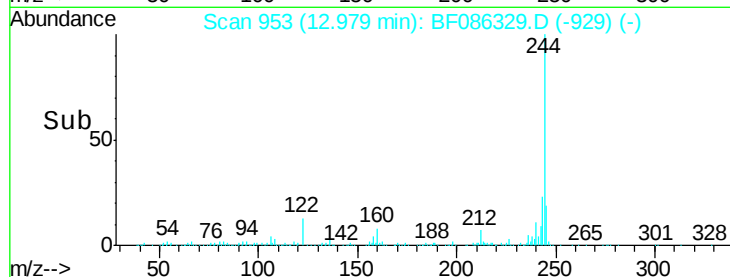
RODNEY-AVE-PS(0-2)G



Tot Ion:	244	Resp:	1089275
Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.4	9.6
122	12.8	11.7	17.5

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#80

Benzo(a)anthracene

Concen: 150.78 ng

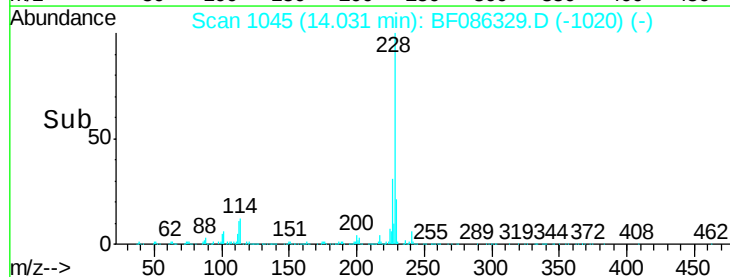
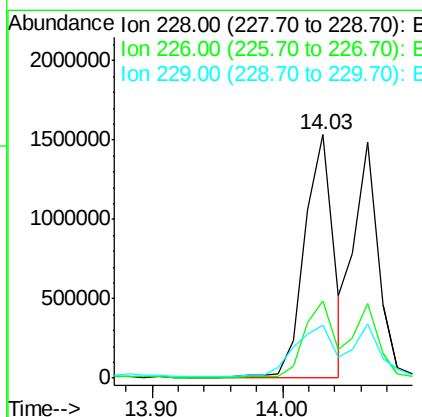
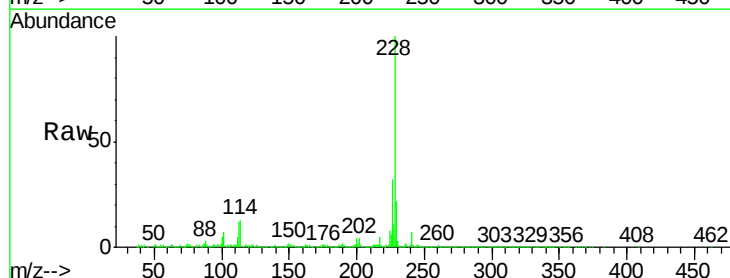
RT: 14.03 min Scan# 1045

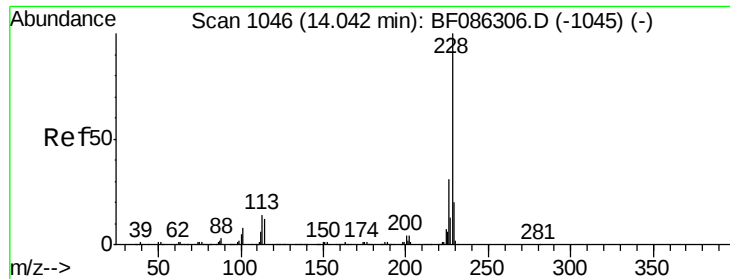
Delta R.T. -0.01 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Tgt Ion:	228	Resp:	2321906
Ion	Ratio	Lower	Upper
228	100		
226	31.6	22.5	33.7
229	21.9	16.2	24.2





#82

Chrysene

Concen: 116.61 ng/mL

RT: 14.07 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)G

Tot Ion: 228 Resp: 1941028

Ion Ratio Lower Upper

228 100

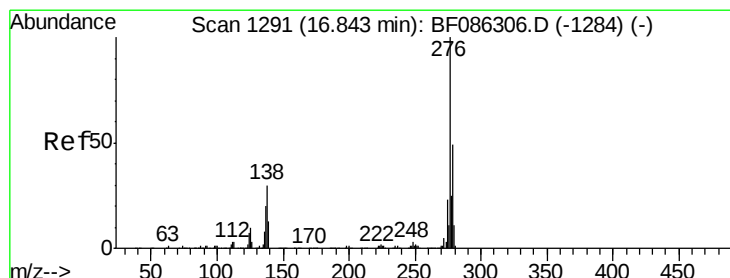
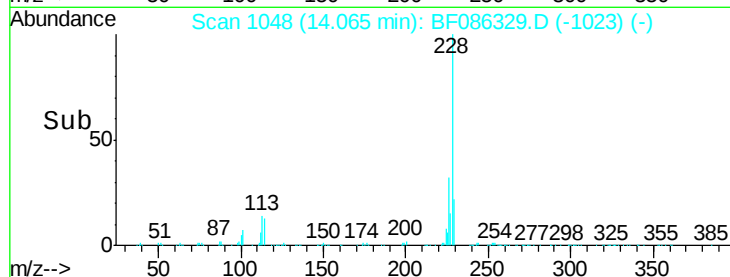
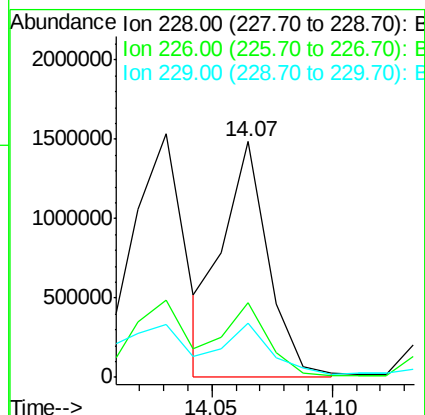
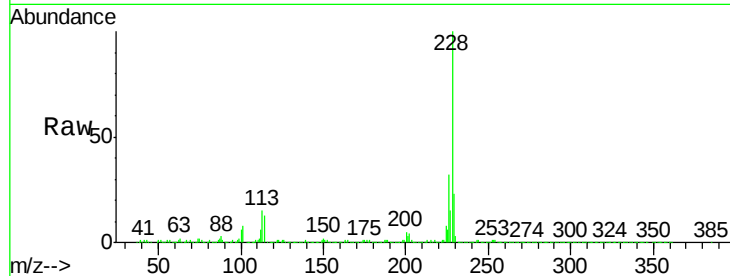
226 31.9 25.4 38.2

229 23.2 16.5 24.7

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#85

Indeno(1,2,3-cd)pyrene

Concen: 74.85 ng/mL

RT: 16.90 min Scan# 1296

Delta R.T. -0.00 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

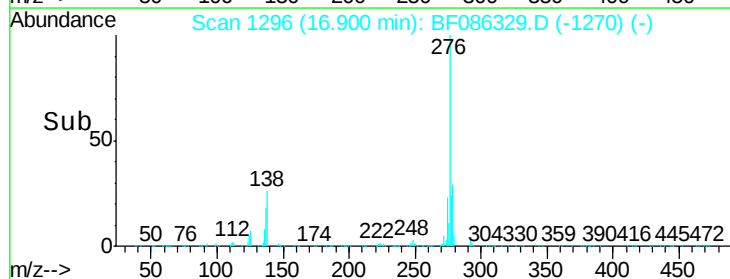
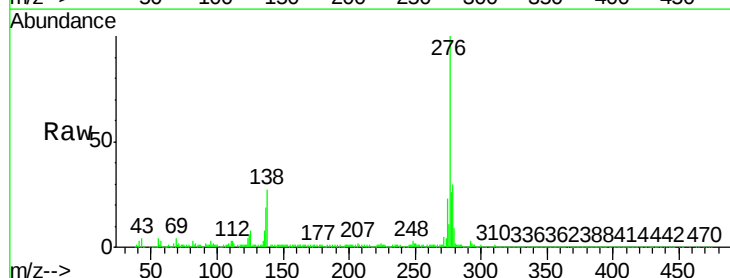
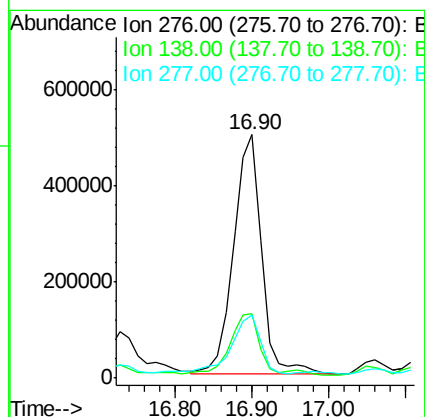
Tgt Ion: 276 Resp: 1281157

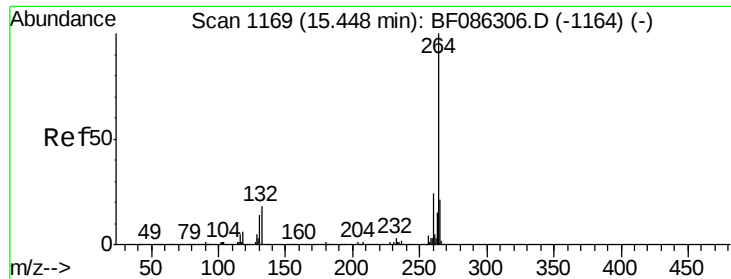
Ion Ratio Lower Upper

276 100

138 25.2 23.8 35.6

277 27.0 20.2 30.2





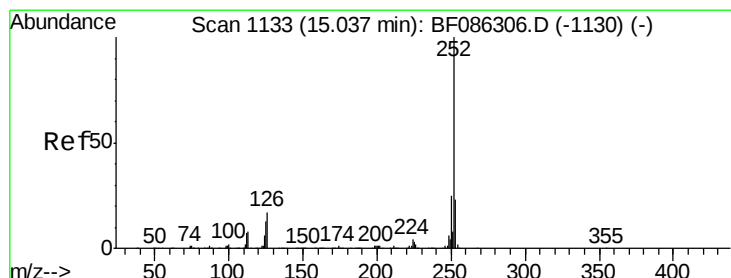
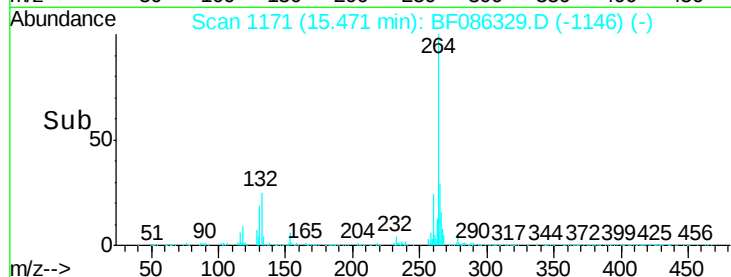
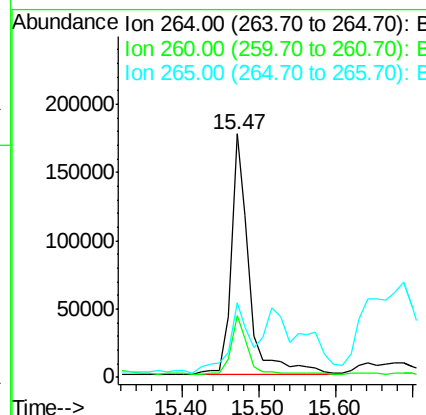
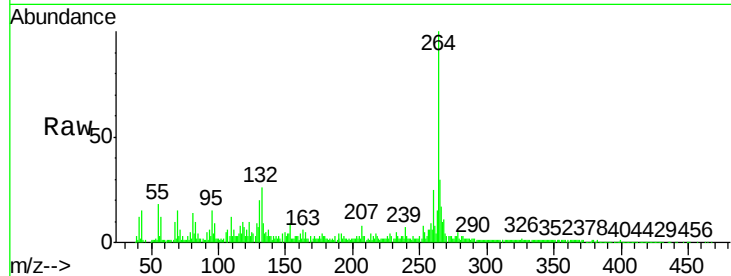
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.47 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)G

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.2	20.0	30.0
265	30.4	17.4	26.0

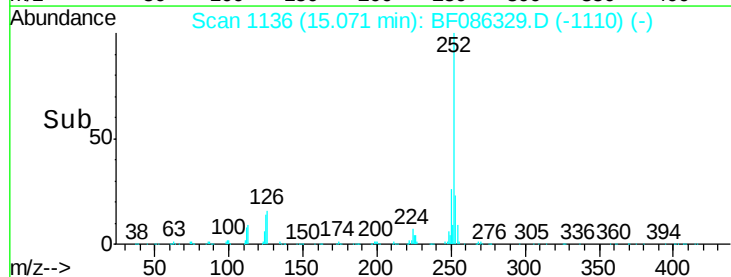
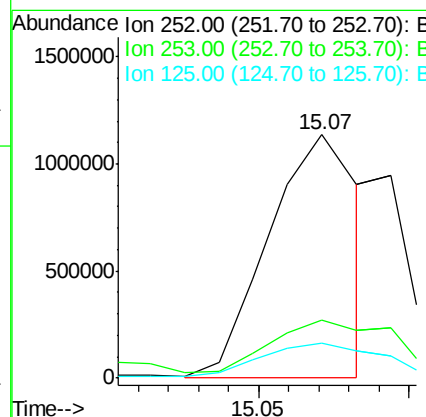
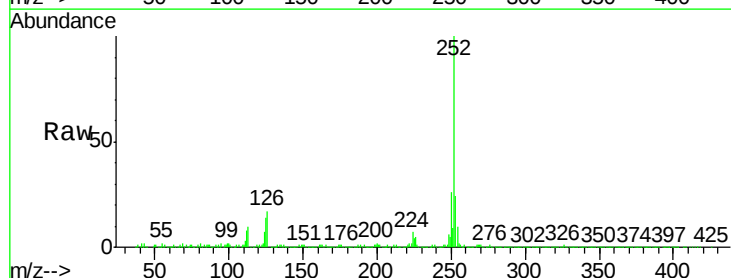
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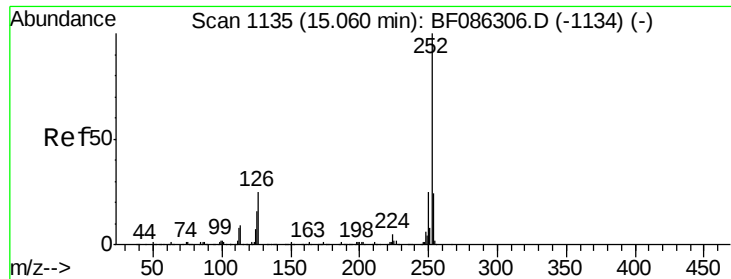
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#87
Benzo(b)fluoranthene
Concen: 139.31 ng m
RT: 15.07 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.7	26.5
125	14.4	10.3	15.5





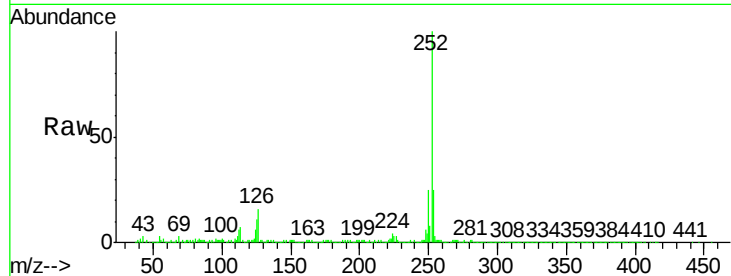
#88
Benzo(k)fluoranthene
Concen: 54.85 ng m
RT: 15.09 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)G

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.5	26.3
125	11.2	7.8	11.6

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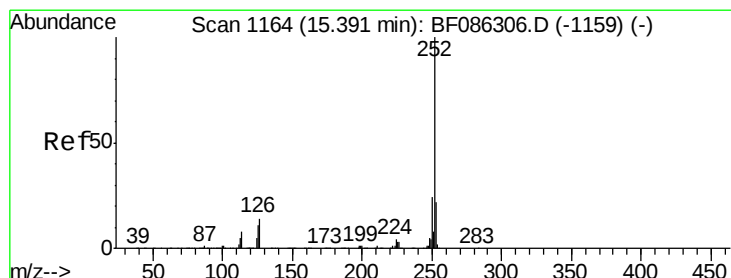
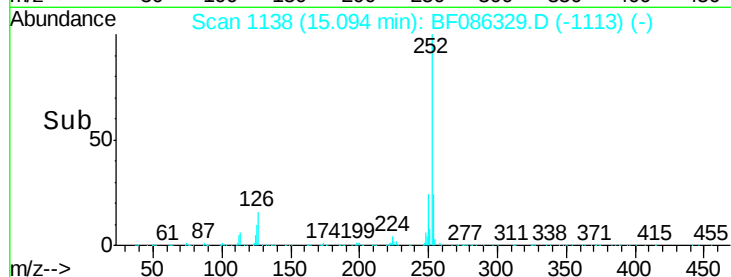
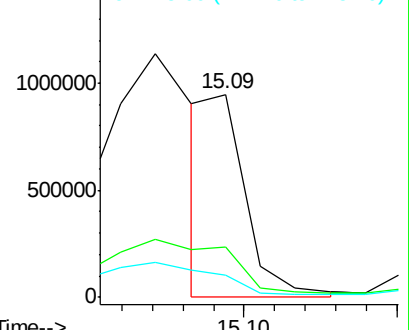


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 107.56 ng
RT: 15.43 min Scan# 1167
Delta R.T. -0.00 min
Lab File: BF086329.D
Acq: 21 Apr 2016 1:01

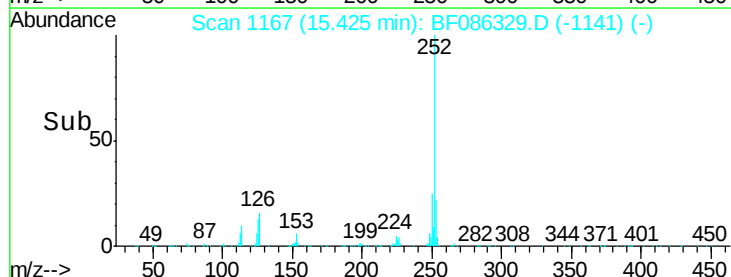
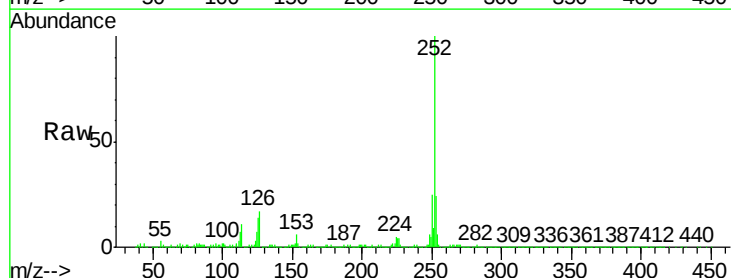
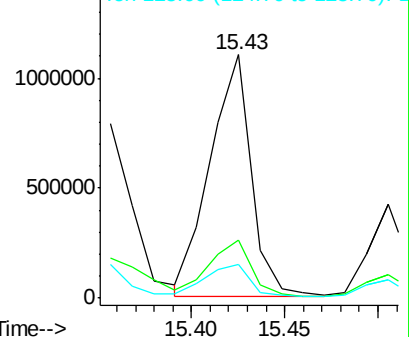
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	13.6	11.2	16.8

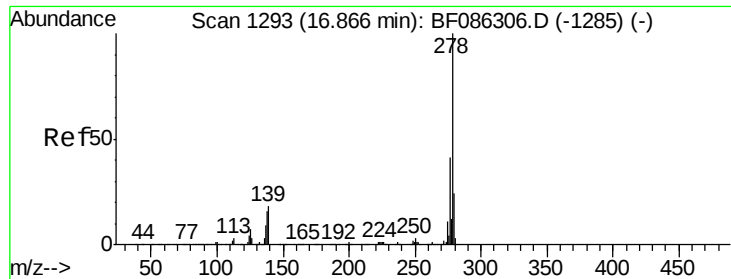
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 18.82 ng/mL

RT: 16.90 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF086329.D

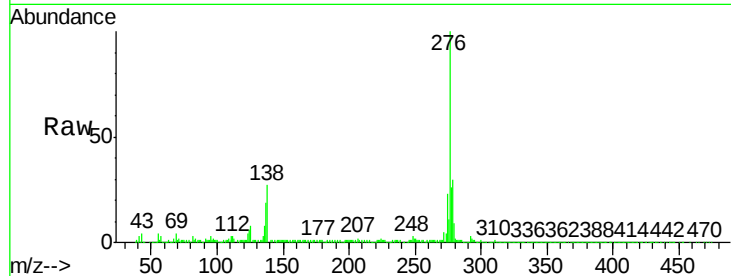
Acq: 21 Apr 2016 1:01

Instrument :

BNA_F

ClientSampleId :

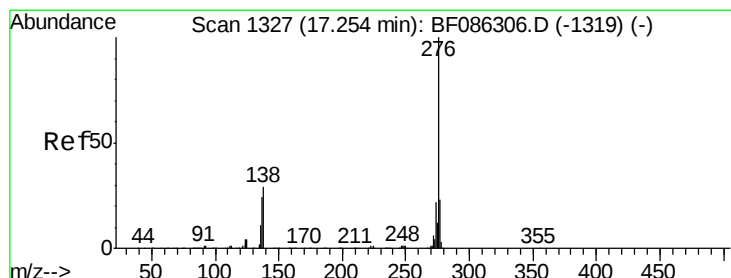
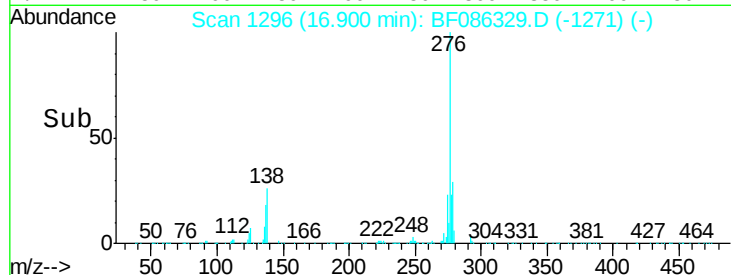
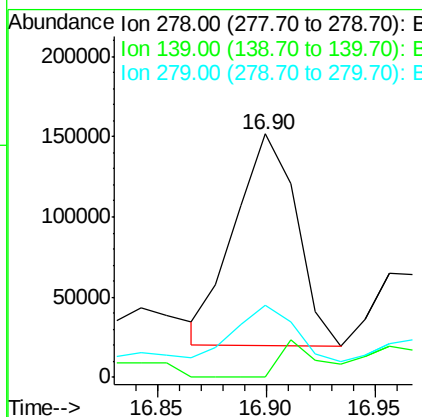
RODNEY-AVE-PS(0-2)G



Tot Ion:	278	Resp:	259768
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.3	22.9#
279	29.5	19.1	28.7#

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 92.51 ng/mL

RT: 17.33 min Scan# 1334

Delta R.T. 0.01 min

Lab File: BF086329.D

Acq: 21 Apr 2016 1:01

Tgt Ion:	276	Resp:	1223997
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.0	28.6
138	27.0	19.6	29.4

