

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111815\
 Data File : BF083038.D
 Acq On : 19 Nov 2015 5:43
 Operator : UM/IZ
 Sample : G4436-07
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ON-1593

Manual Integrations
 APPROVED

Mmdadoda
 11/22/2015 12:13:14 AM

Quant Time: Nov 19 06:57:35 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 18 13:32:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	112579	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	422240	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	181695	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	302747	20.00	ng	0.00
75) Chrysene-d12	13.89	240	263997	20.00	ng	0.00
86) Perylene-d12	15.29	264	203836	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	954297	131.89	ng	0.01
7) Phenol-d6	6.40	99	1330576	138.33	ng	0.00
23) Nitrobenzene-d5	7.30	82	806966	83.16	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	220190	105.69	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	1329413	104.87	ng	0.00
78) Terphenyl-d14	12.84	244	761056	68.38	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.04	128	160756	6.90	ng	96
37) 2-Methylnaphthalene	8.74	142	70968m	4.71	ng	
48) Acenaphthylene	9.63	152	222907	11.70	ng	98
49) Dimethylphthalate	9.49	163	335378	22.53	ng	99
51) Acenaphthene	9.80	154	63155	5.23	ng	99
54) Dibenzofuran	9.97	168	93881	5.76	ng	95
57) Fluorene	10.32	166	89989	6.82	ng	97
70) Phenanthrene	11.28	178	1096512	62.37	ng	98
71) Anthracene	11.33	178	458830	24.77	ng	97
72) Carbazole	11.48	167	166158	10.25	ng	95
74) Fluoranthene	12.48	202	1985097	105.22	ng	95
77) Pyrene	12.69	202	1642249	90.58	ng	97
80) Benzo(a)anthracene	13.88	228	1009978m	61.18	ng	
82) Chrysene	13.92	228	912017m	60.32	ng	
85) Indeno(1,2,3-cd)pyrene	16.61	276	339728	26.09	ng	95
87) Benzo(b)fluoranthene	14.90	252	982006m	75.05	ng	
88) Benzo(k)fluoranthene	14.91	252	415693m	35.81	ng	
89) Benzo(a)pyrene	15.23	252	584899	51.60	ng	96
90) Dibenzo(a,h)anthracene	16.61	278	96386m	10.04	ng	
91) Benzo(g,h,i)perylene	17.01	276	296123	32.21	ng	100

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

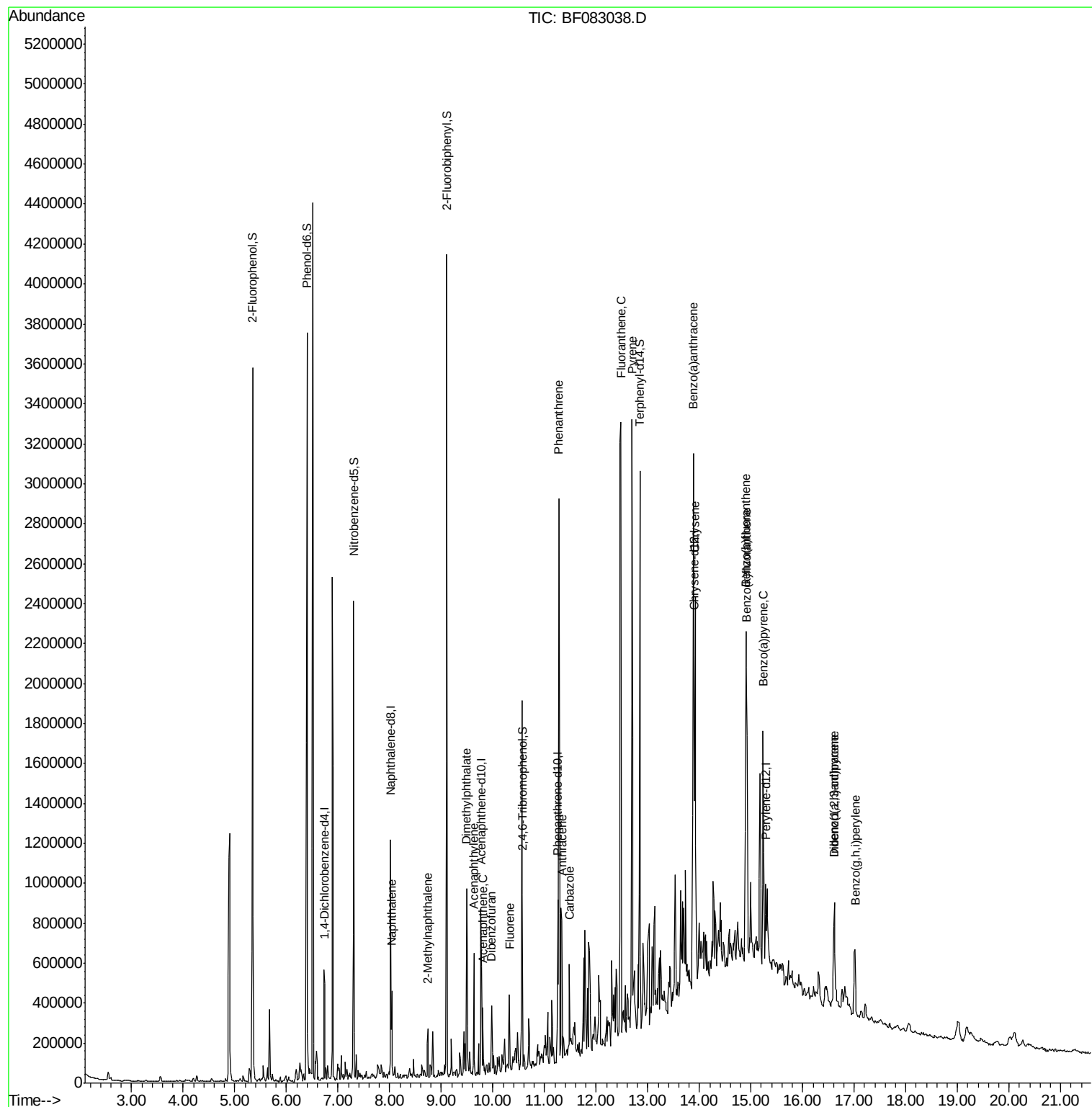
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111815\
Data File : BF083038.D
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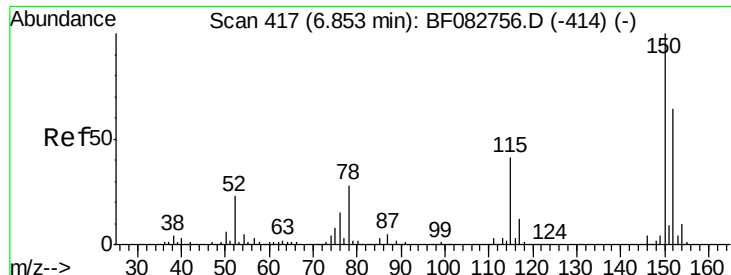
Instrument :
BNA_F
ClientSampleId :
ON-1593

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Quant Time: Nov 19 06:57:35 2015
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 18 13:32:32 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 407

Delta R.T. -0.00 min

Lab File: BF083038.D

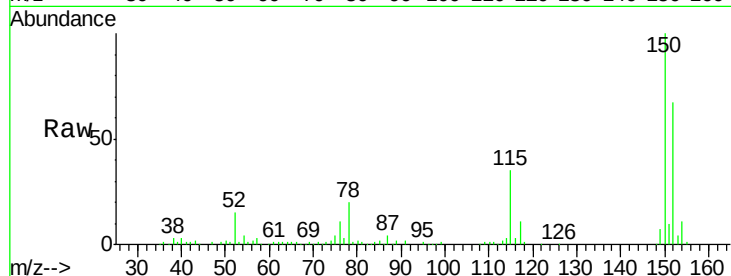
Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

ClientSampleId :

ON-1593



Tgt Ion:152 Resp: 112579

Ion Ratio Lower Upper

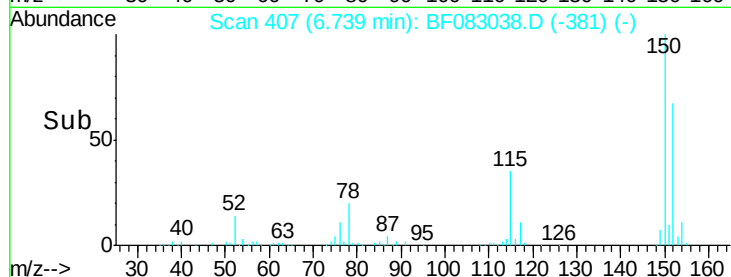
152 100

150 150.3 127.0 190.4

115 52.1 47.0 70.6

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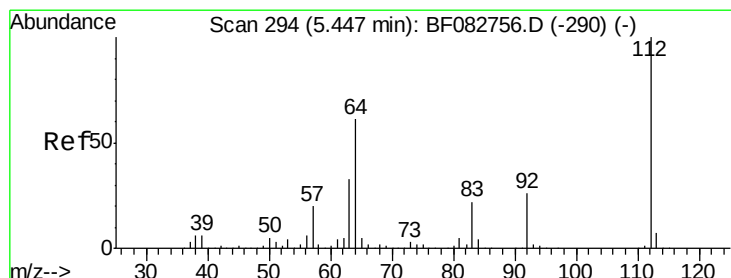
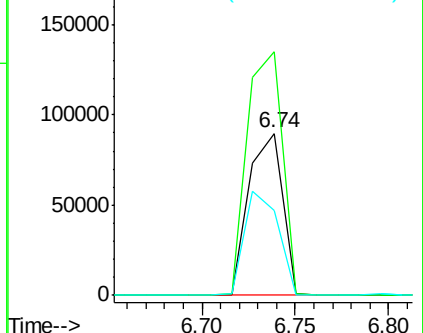
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 131.89 ng

RT: 5.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

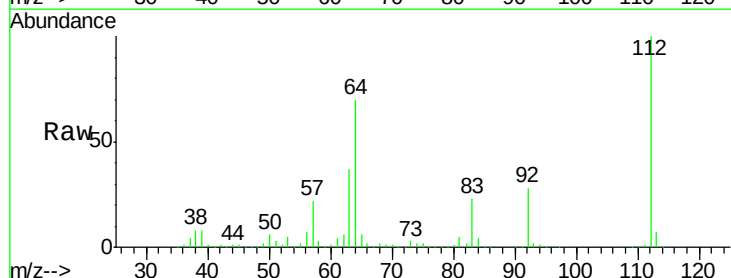
Tgt Ion:112 Resp: 954297

Ion Ratio Lower Upper

112 100

64 69.9 48.9 73.3

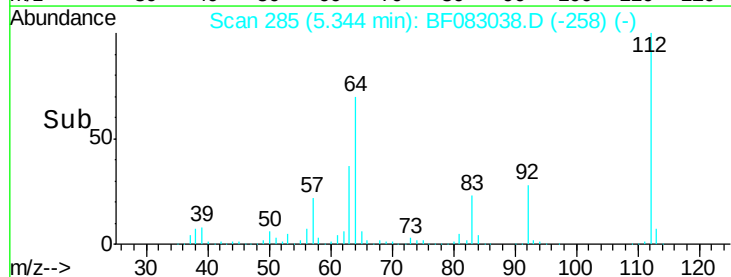
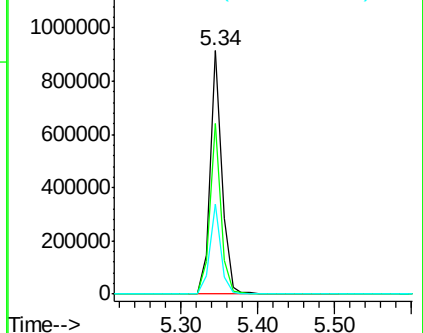
63 37.0 28.1 42.1

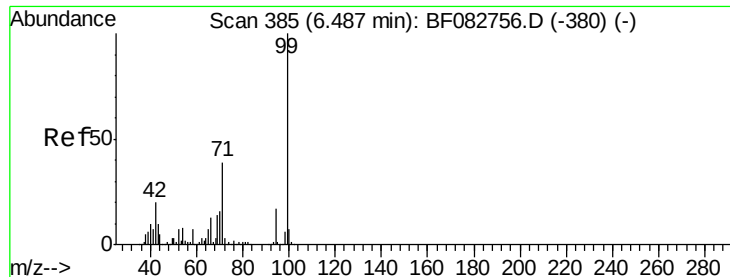


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 138.33 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.00 min

Lab File: BF083038.D

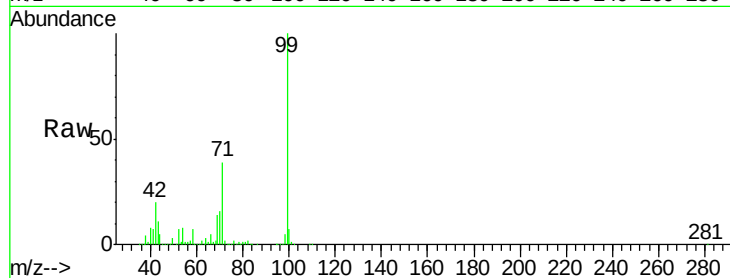
Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

ClientSampleId :

ON-1593



Tgt Ion: 99 Resp: 1330576

Ion Ratio Lower Upper

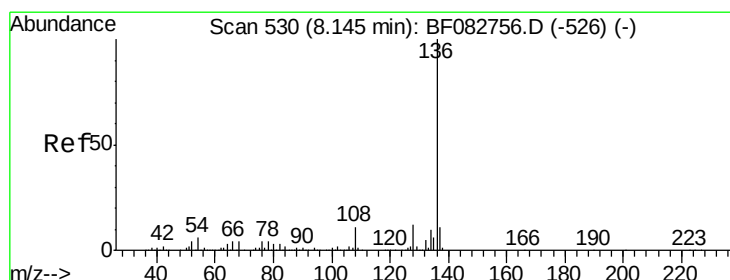
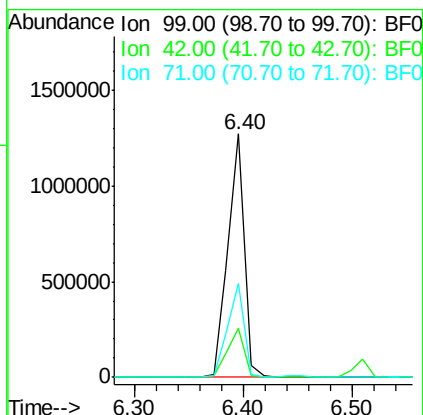
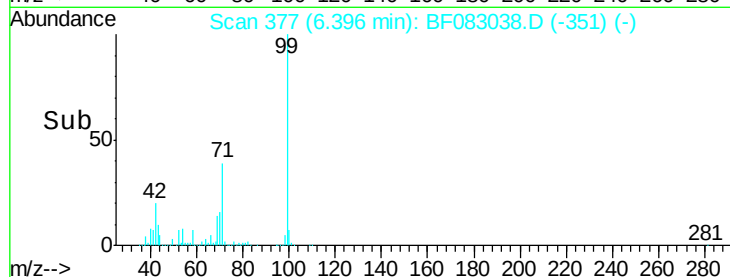
99 100

42 20.4 19.2 28.8

71 38.7 35.0 52.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 519

Delta R.T. -0.00 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Tgt Ion: 136 Resp: 422240

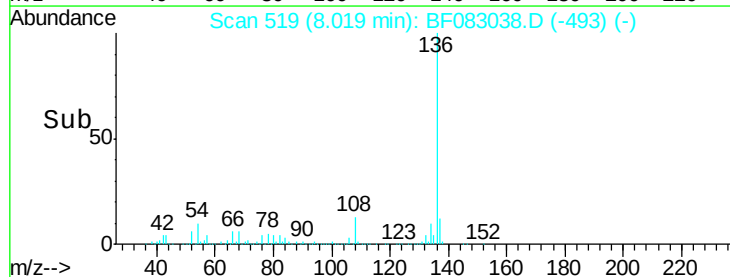
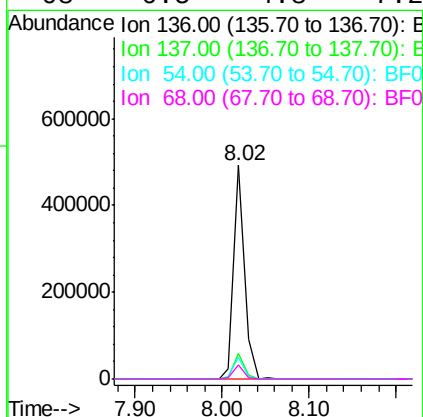
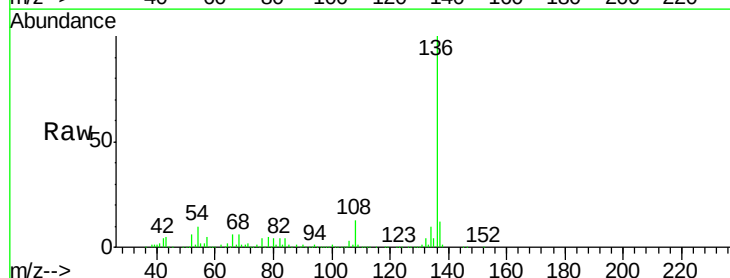
Ion Ratio Lower Upper

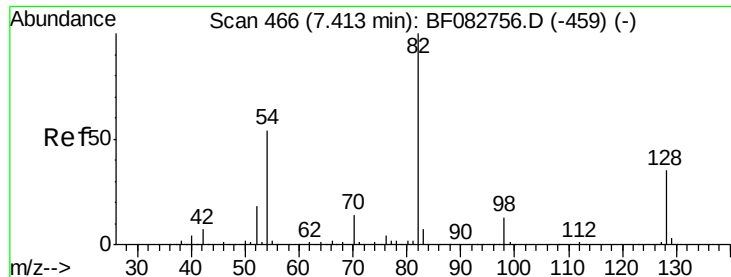
136 100

137 11.8 9.1 13.7

54 10.2 9.1 13.7

68 6.5 4.8 7.2





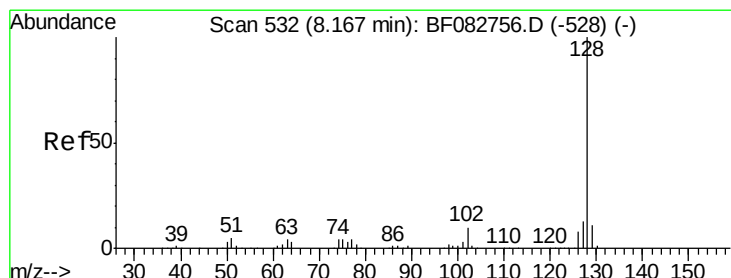
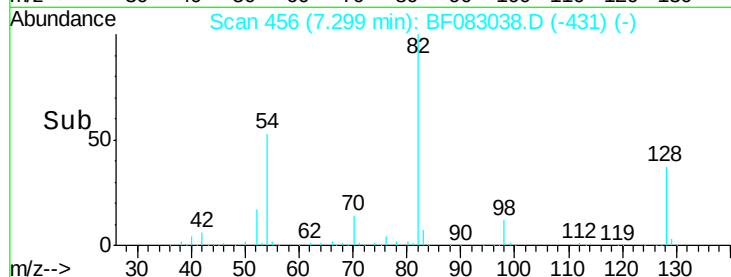
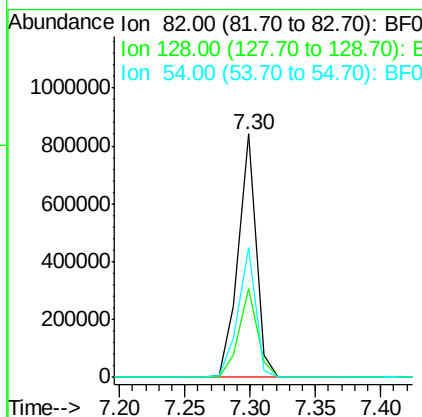
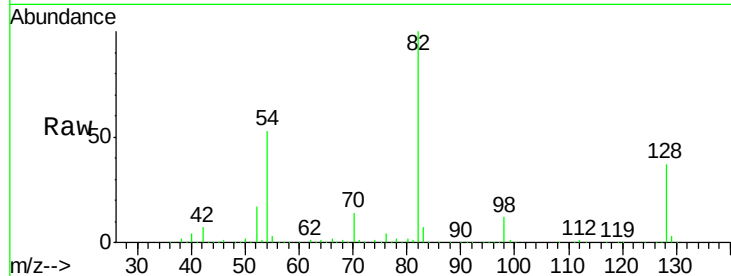
#23
 Nitrobenzene-d5
 Concen: 83.16 ng
 RT: 7.30 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: BF083038.D
 Acq: 19 Nov 2015 5:43

Instrument :
 BNA_F
 ClientSampleId :
 ON-1593

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	36.6	26.8	40.2
54	53.2	45.7	68.5

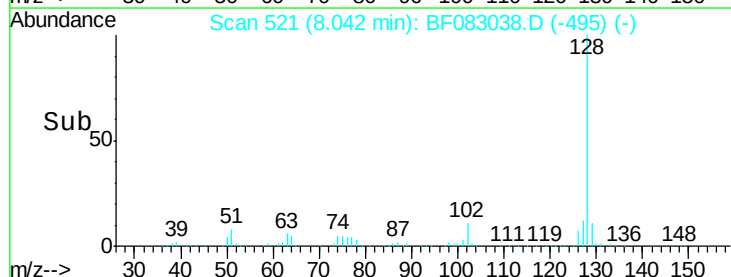
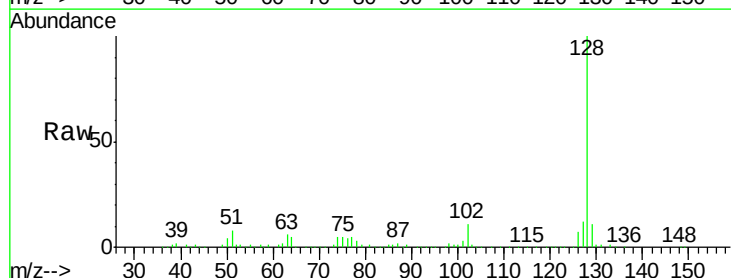
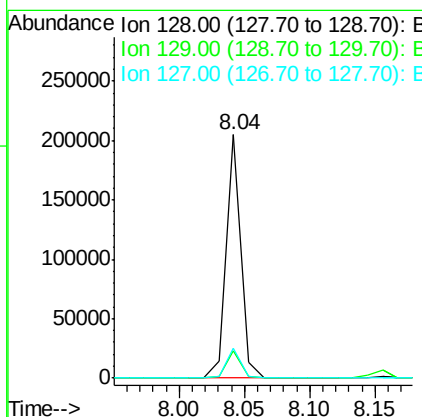
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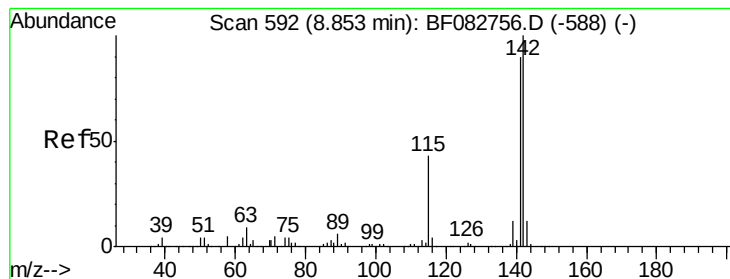
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#31
 Naphthalene
 Concen: 6.90 ng
 RT: 8.04 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: BF083038.D
 Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.1	9.5	14.3
127	12.2	11.4	17.0





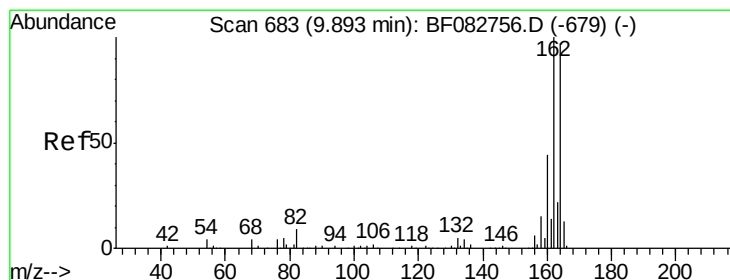
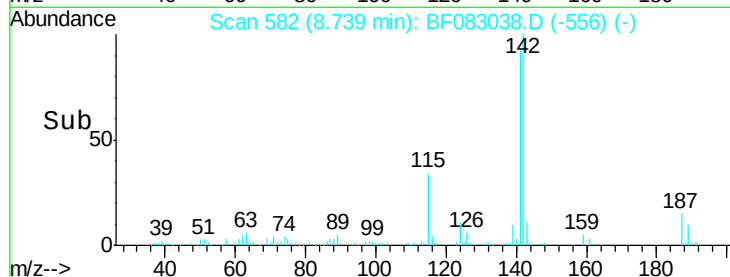
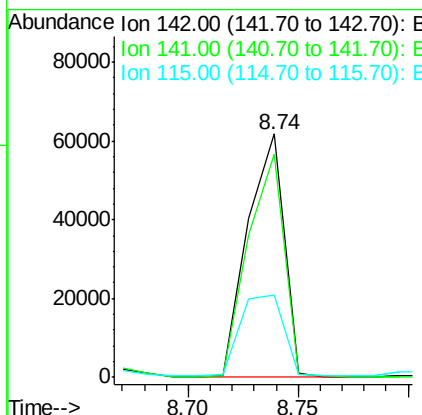
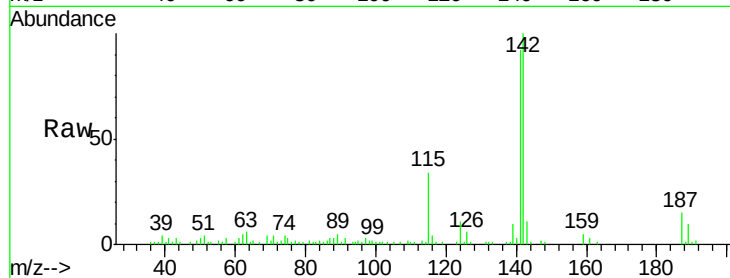
#37
 2-Methylnaphthalene
 Concen: 4.71 ng m
 RT: 8.74 min Scan# 582
 Delta R.T. -0.00 min
 Lab File: BF083038.D
 Acq: 19 Nov 2015 5:43

Instrument :
 BNA_F
 ClientSampleId :
 ON-1593

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	72.3	108.5
115	33.8	38.1	57.1#

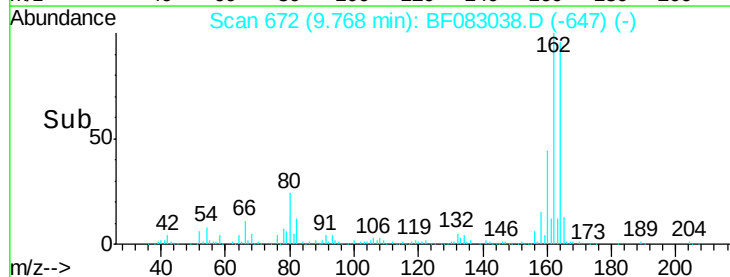
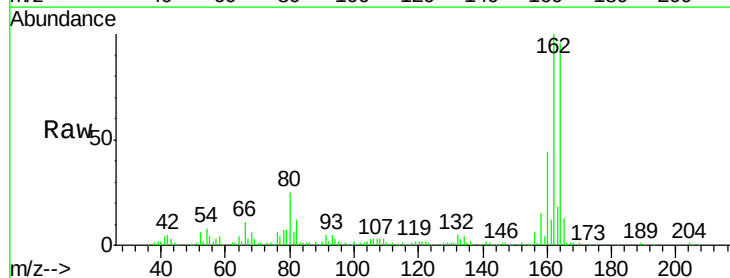
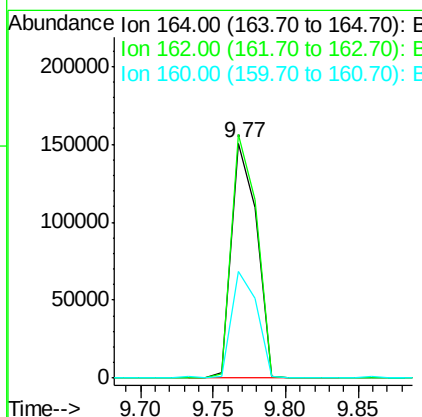
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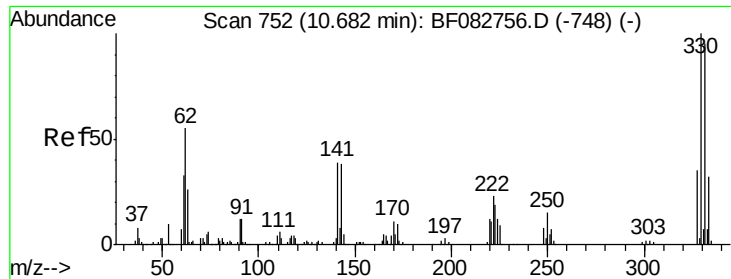
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.77 min Scan# 672
 Delta R.T. -0.01 min
 Lab File: BF083038.D
 Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	84.9	127.3
160	45.5	37.5	56.3





#41

2,4,6-Tribromophenol

Concen: 105.69 ng

RT: 10.57 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

ClientSampleId :

ON-1593

Tgt Ion:330 Resp: 220190
Ion Ratio Lower Upper

330 100

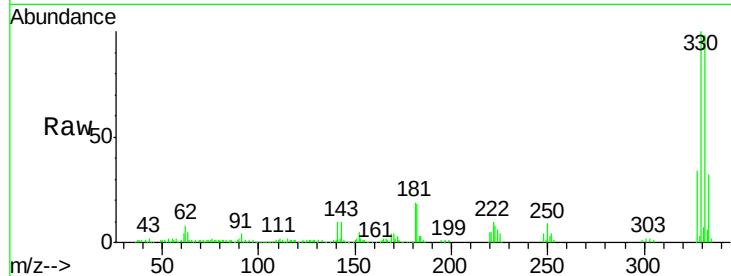
332 95.7 76.6 114.8

141 37.2 41.2 61.8#

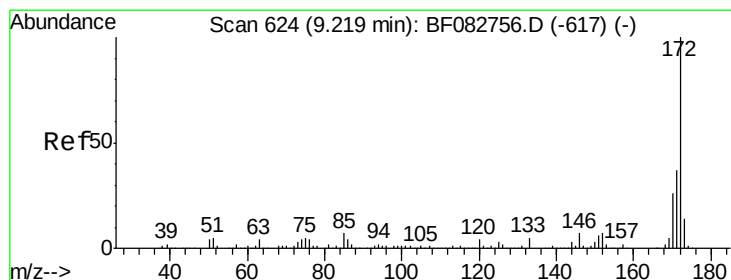
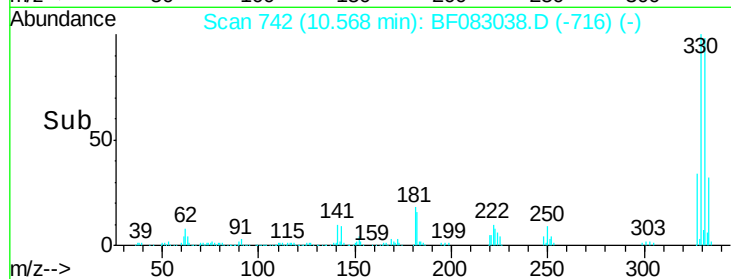
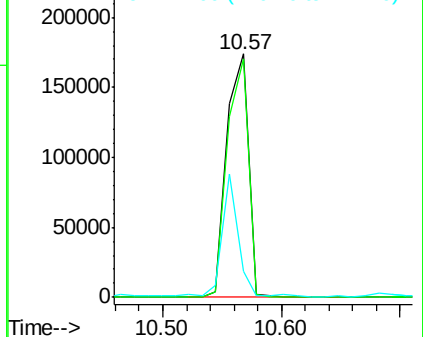
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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 104.87 ng

RT: 9.10 min Scan# 614

Delta R.T. -0.00 min

Lab File: BF083038.D

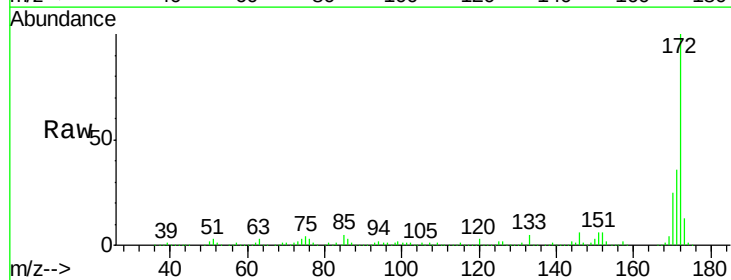
Acq: 19 Nov 2015 5:43

Tgt Ion:172 Resp: 1329413
Ion Ratio Lower Upper

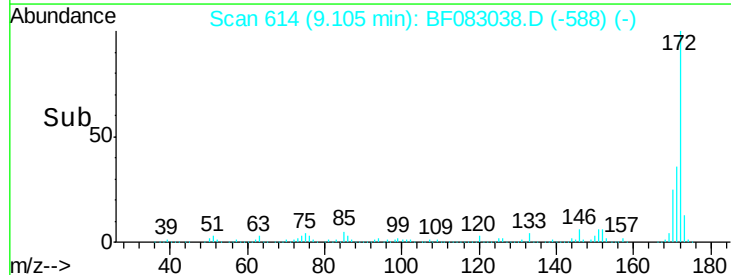
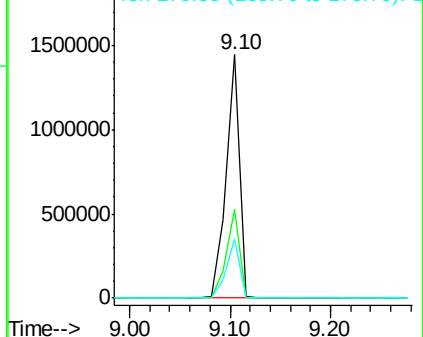
172 100

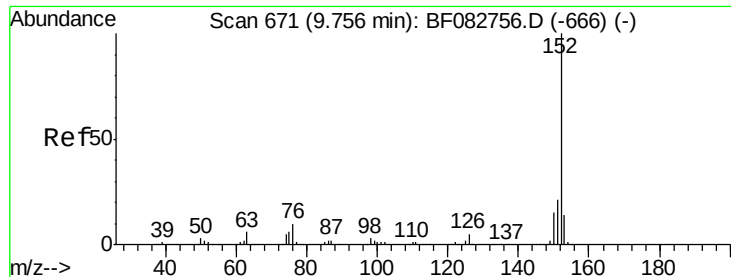
171 36.3 30.8 46.2

170 24.6 21.2 31.8



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 11.70 ng

RT: 9.63 min Scan# 660

Delta R.T. -0.01 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

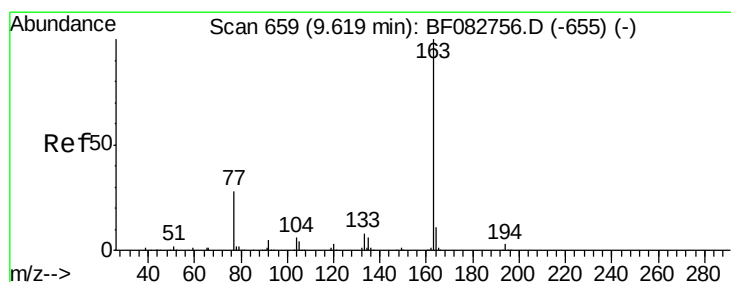
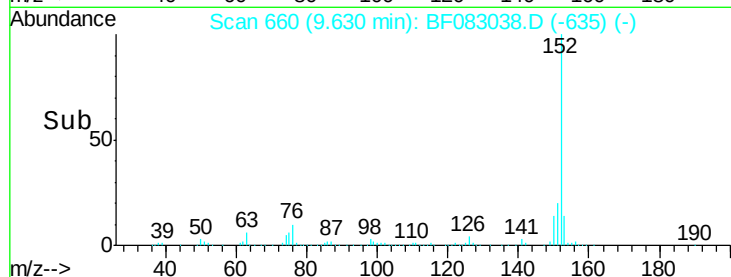
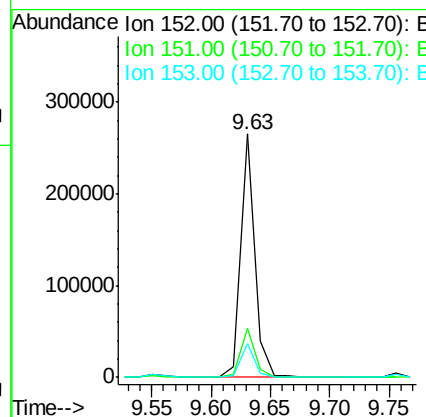
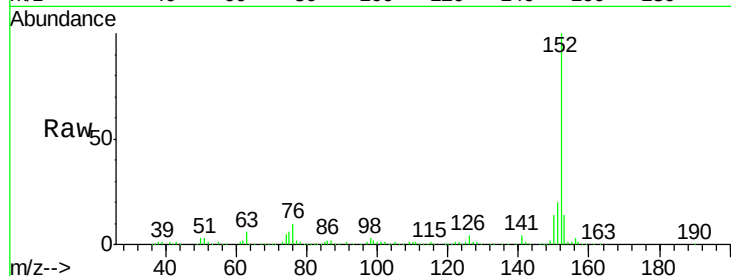
ClientSampleId :

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Tgt Ion:	152	Resp:	222907
Ion Ratio		Lower	Upper
152	100		
151	20.1	17.3	25.9
153	14.0	11.3	16.9

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#49

Dimethylphthalate

Concen: 22.53 ng

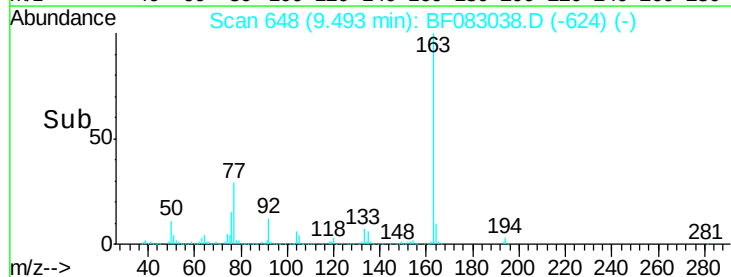
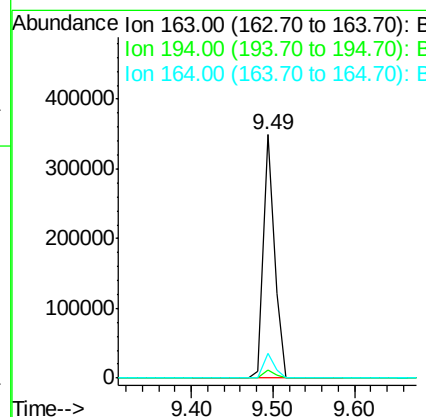
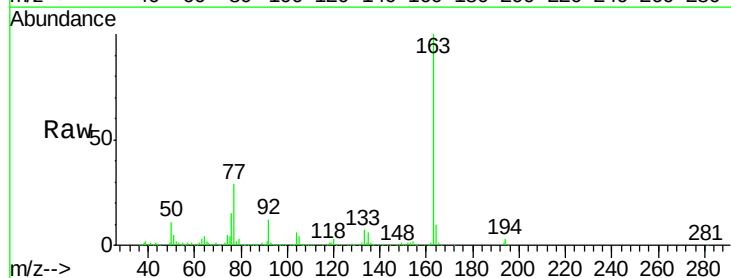
RT: 9.49 min Scan# 648

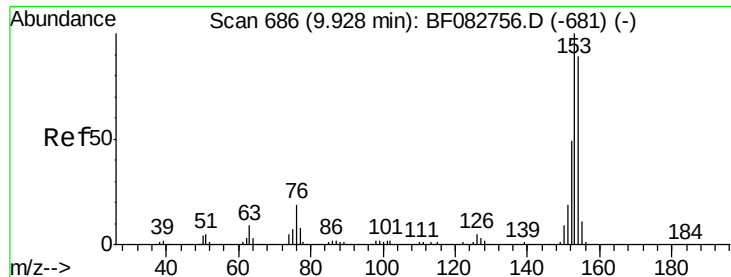
Delta R.T. -0.02 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Tgt Ion:	163	Resp:	335378
Ion Ratio		Lower	Upper
163	100		
194	3.1	2.6	4.0
164	10.3	8.7	13.1





#51

Acenaphthene

Concen: 5.23 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.01 min

Lab File: BF083038.D

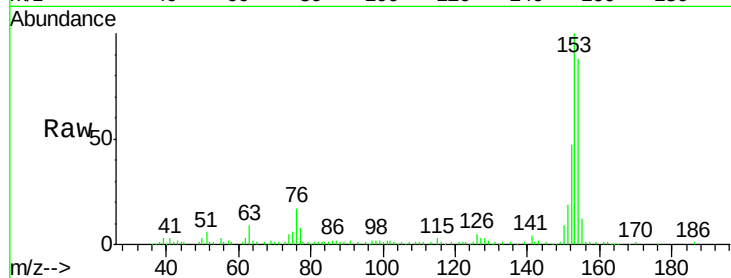
Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

ClientSampleId :

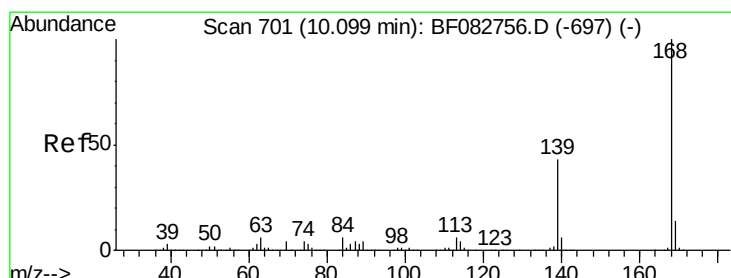
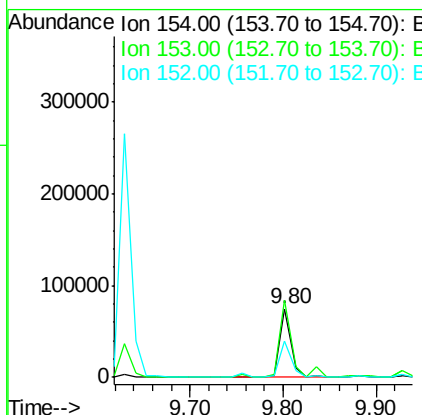
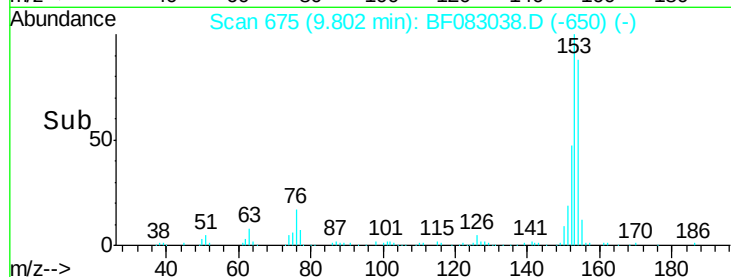
ON-1593



Tgt Ion:	154	Resp:	63155
Ion Ratio	Lower	Upper	
154	100		
153	113.7	90.1	135.1
152	53.6	44.3	66.5

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#54

Dibenzofuran

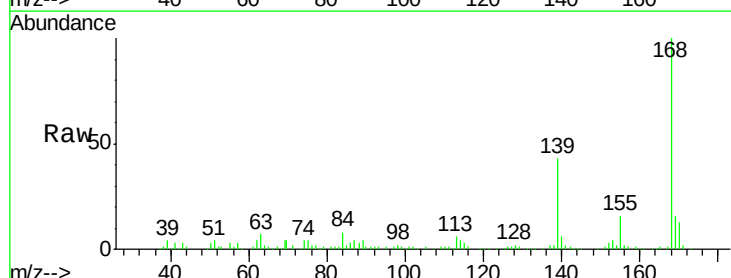
Concen: 5.76 ng

RT: 9.97 min Scan# 690

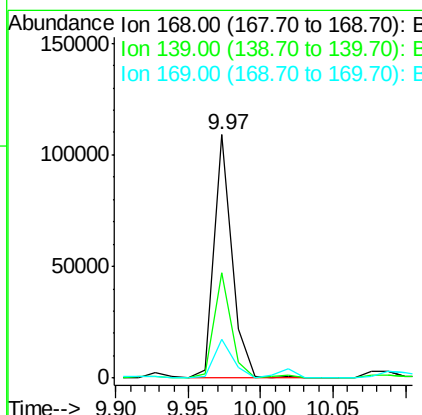
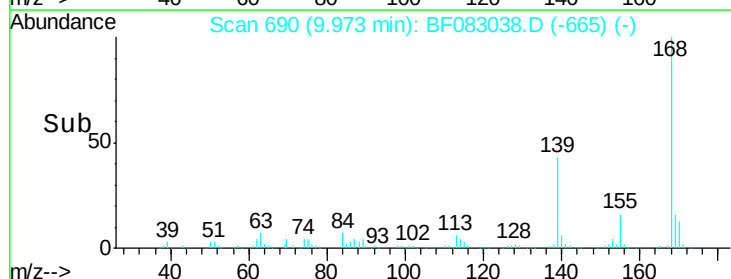
Delta R.T. -0.01 min

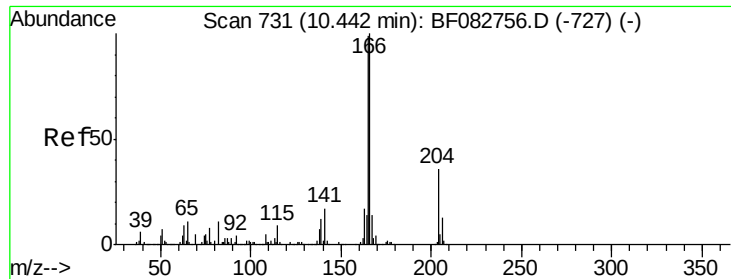
Lab File: BF083038.D

Acq: 19 Nov 2015 5:43



Tgt Ion:	168	Resp:	93881
Ion Ratio	Lower	Upper	
168	100		
139	43.3	37.8	56.6
169	15.9	11.3	16.9





#57

Fluorene

Concen: 6.82 ng

RT: 10.32 min Scan# 720

Delta R.T. -0.01 min

Lab File: BF083038.D

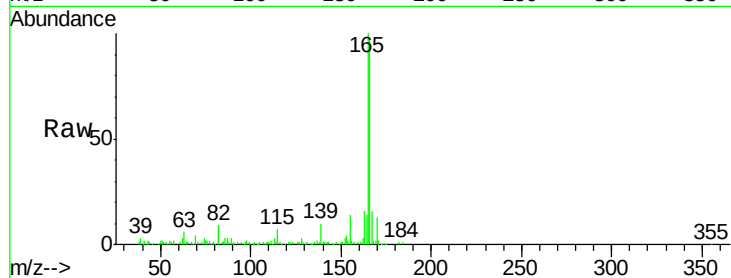
Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

ClientSampleId :

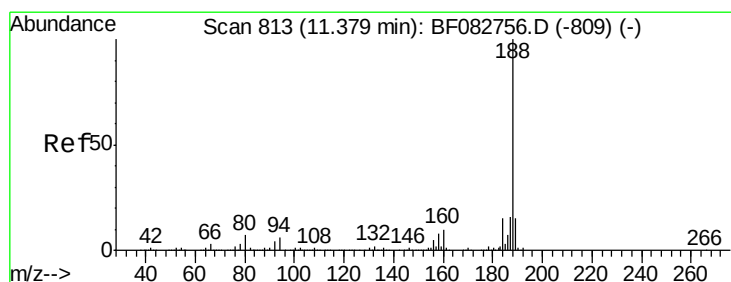
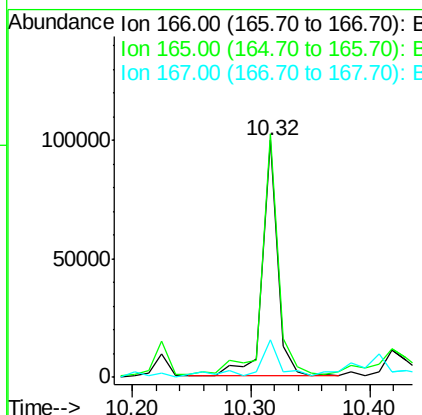
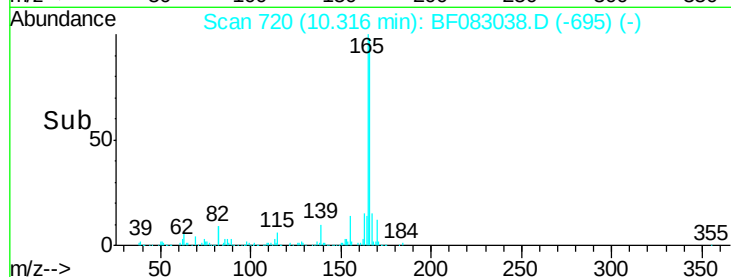
ON-1593



Tgt Ion:	166	Resp:	89989
Ion Ratio	Lower	Upper	
166	100		
165	102.7	80.2	120.4
167	16.1	11.2	16.8

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.00 ng

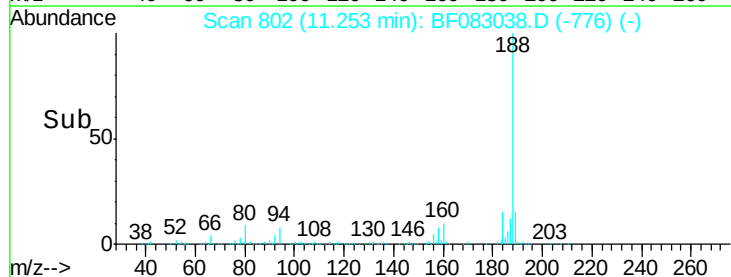
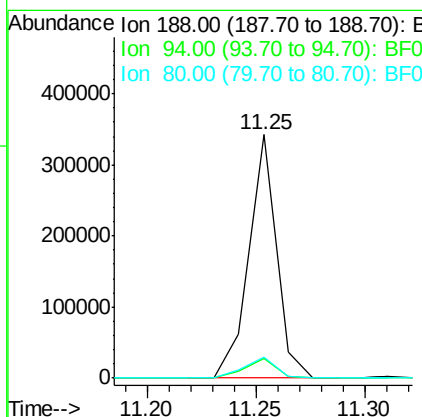
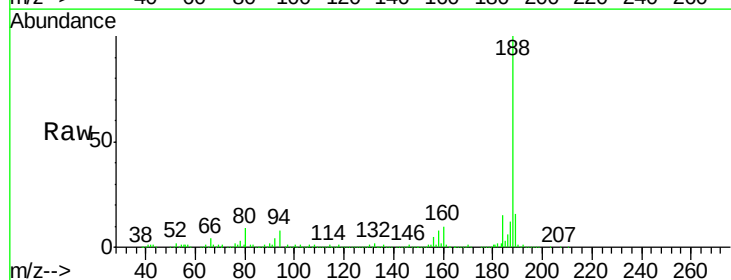
RT: 11.25 min Scan# 802

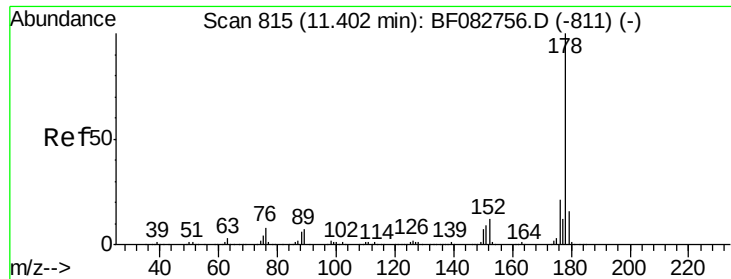
Delta R.T. -0.00 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Tgt Ion:	188	Resp:	302747
Ion Ratio	Lower	Upper	
188	100		
94	8.1	6.1	9.1
80	8.8	7.0	10.6





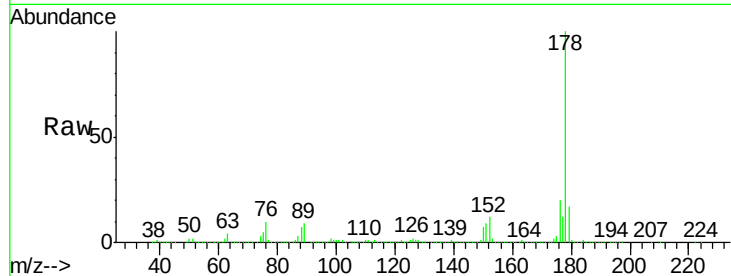
#70
Phenanthrene
Concen: 62.37 ng
RT: 11.28 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF083038.D
Acq: 19 Nov 2015 5:43

Instrument :
BNA_F
ClientSampleId :
ON-1593

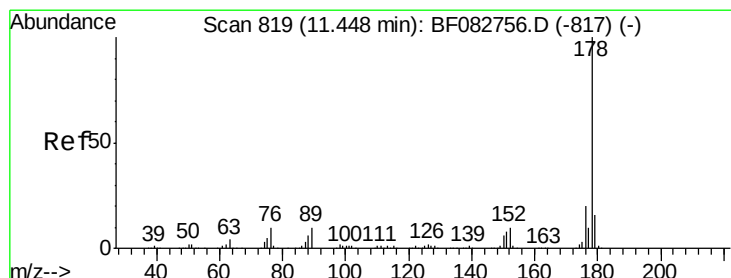
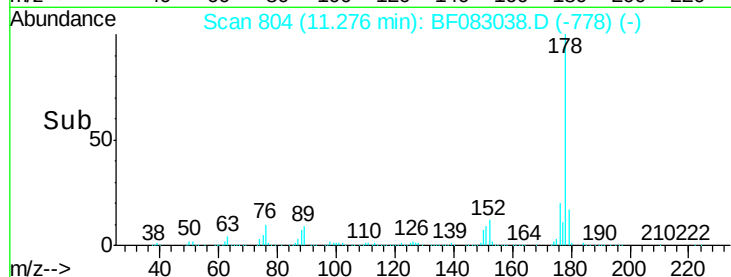
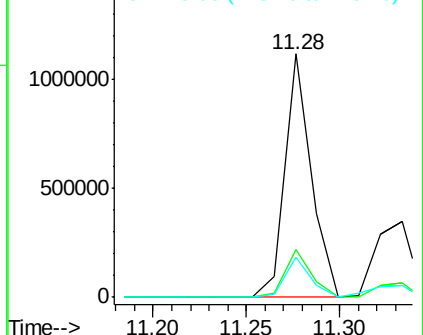
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	17.0	25.4
179	16.7	13.4	20.0

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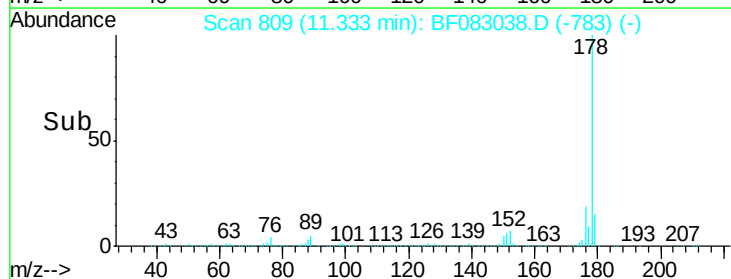
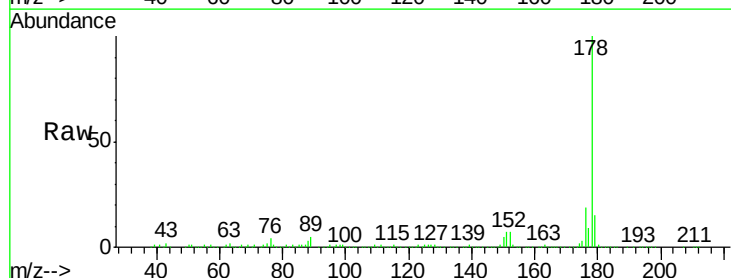
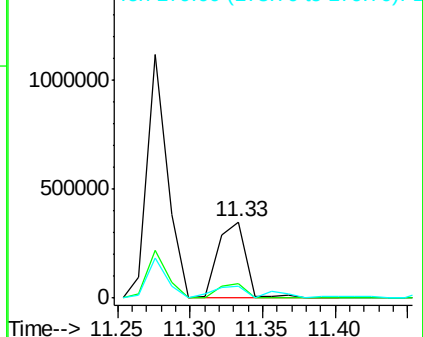
Abundance Ion 178.00 (177.70 to 178.70): E
1500000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

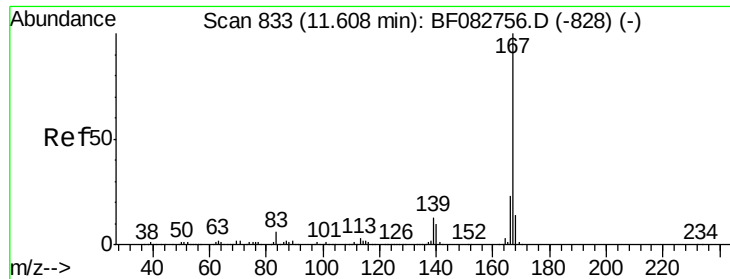


#71
Anthracene
Concen: 24.77 ng
RT: 11.33 min Scan# 809
Delta R.T. -0.00 min
Lab File: BF083038.D
Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.5	24.7
179	15.3	13.2	19.8

Abundance Ion 178.00 (177.70 to 178.70): E
1500000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 10.25 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.00 min

Lab File: BF083038.D

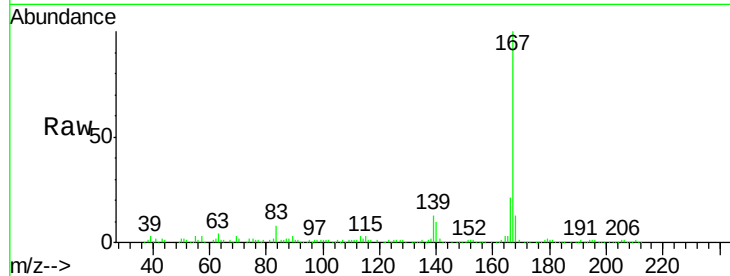
Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

ClientSampleId :

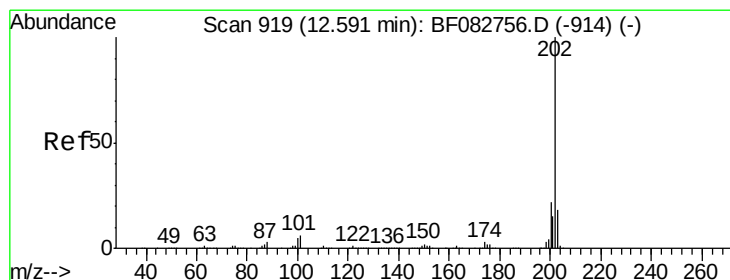
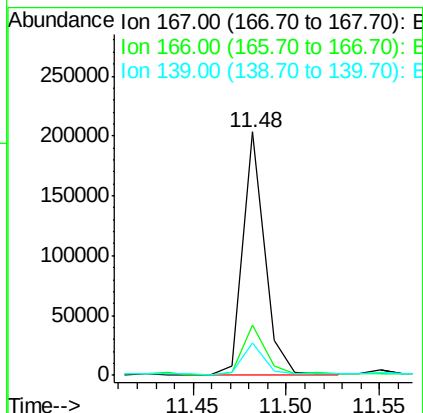
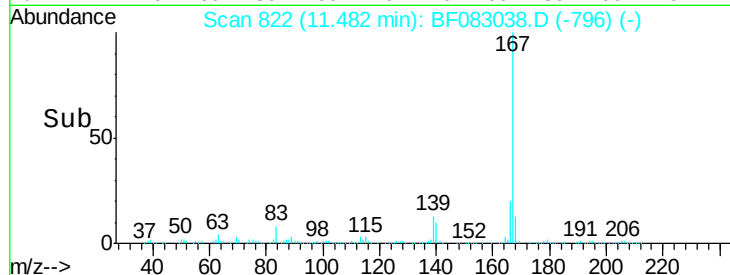
ON-1593



Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.6	18.7	28.1
139	13.3	11.8	17.6

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#74

Fluoranthene

Concen: 105.22 ng

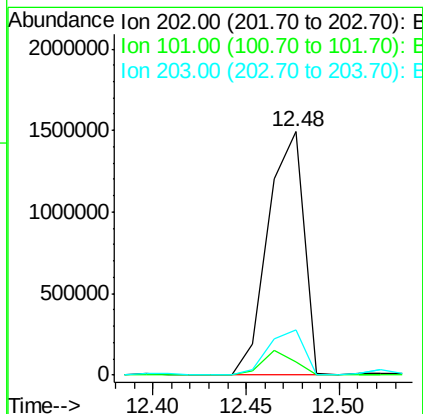
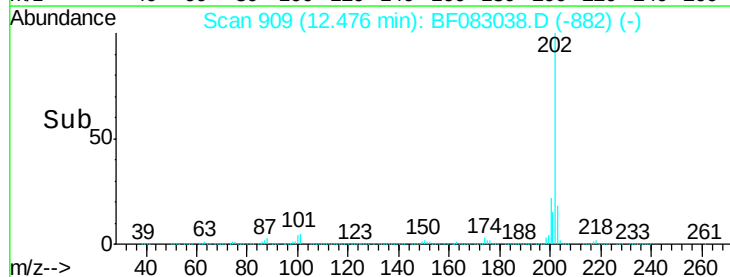
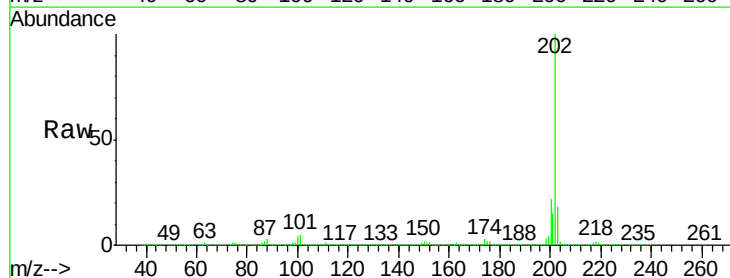
RT: 12.48 min Scan# 909

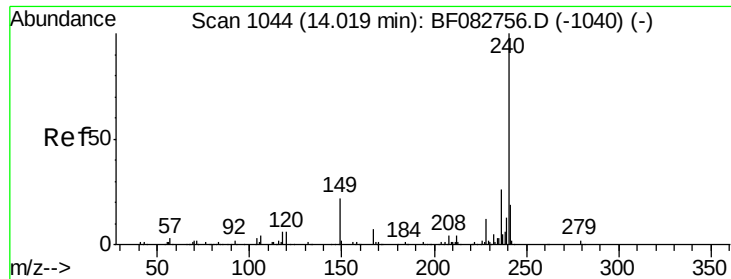
Delta R.T. 0.01 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.4	0.0	30.5
203	18.4	0.0	38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF083038.D

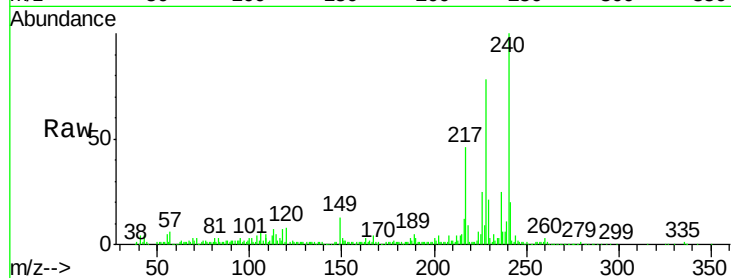
Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

ClientSampleId :

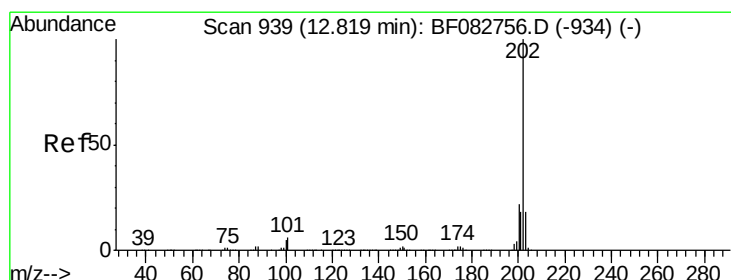
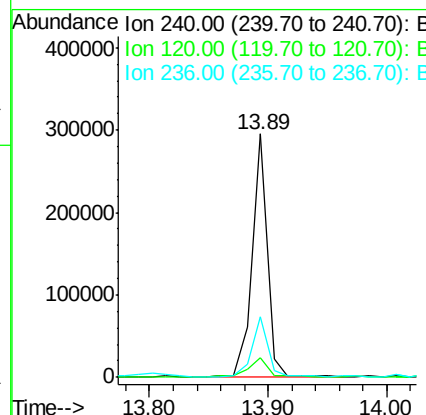
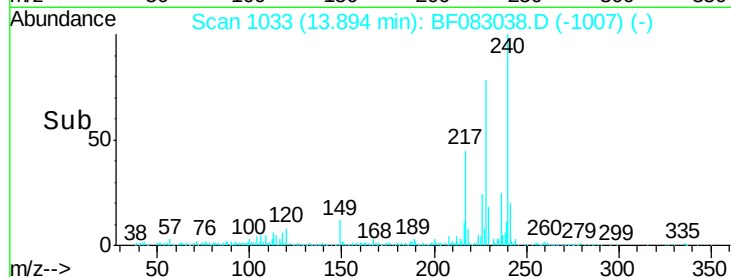
ON-1593



Tgt Ion:	240	Resp:	263997
Ion Ratio	Lower	Upper	
240	100		
120	7.8	10.9	16.3#
236	25.1	21.6	32.4

Manual Integrations
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#77

Pyrene

Concen: 90.58 ng

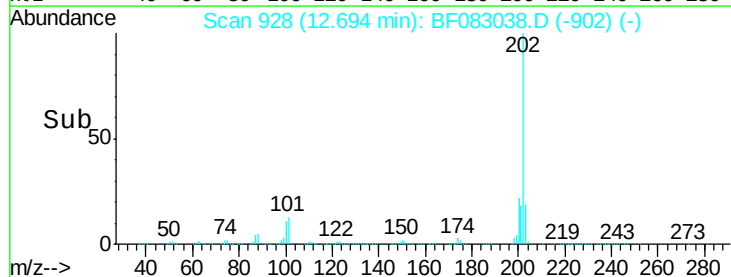
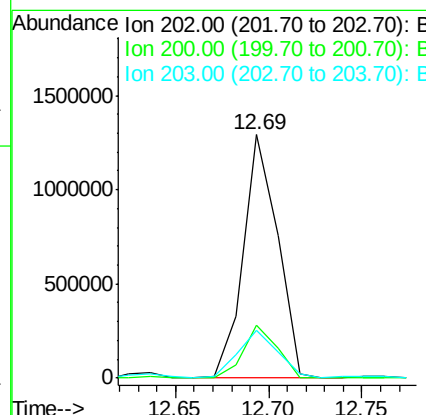
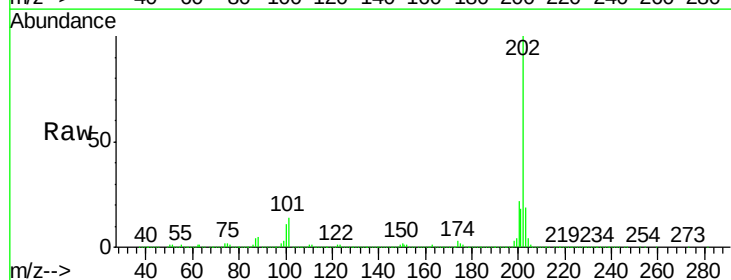
RT: 12.69 min Scan# 928

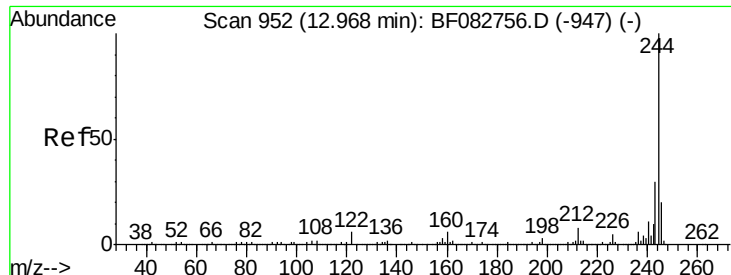
Delta R.T. -0.00 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Tgt Ion:	202	Resp:	1642249
Ion Ratio	Lower	Upper	
202	100		
200	21.9	18.7	28.1
203	19.4	14.8	22.2





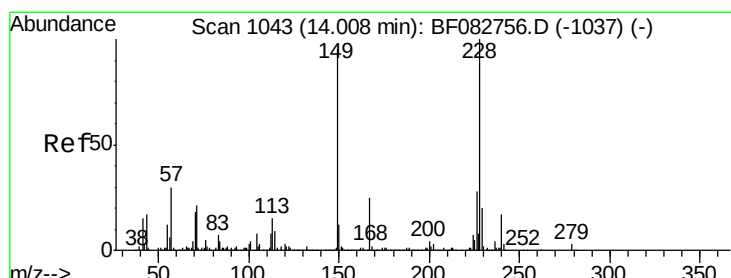
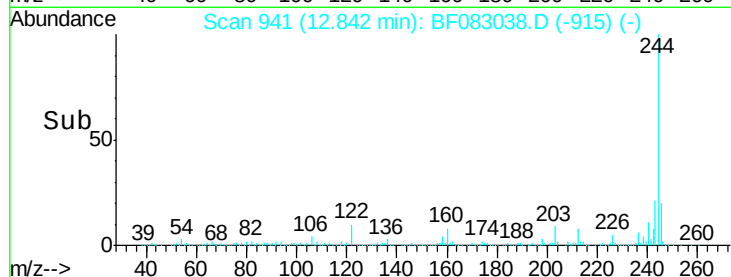
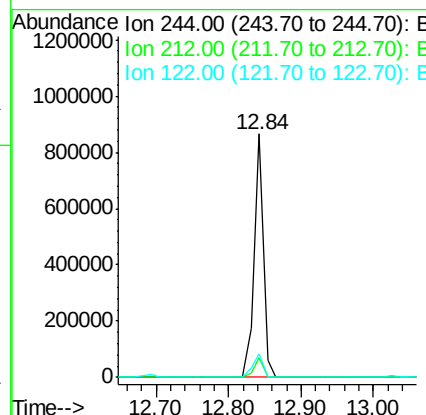
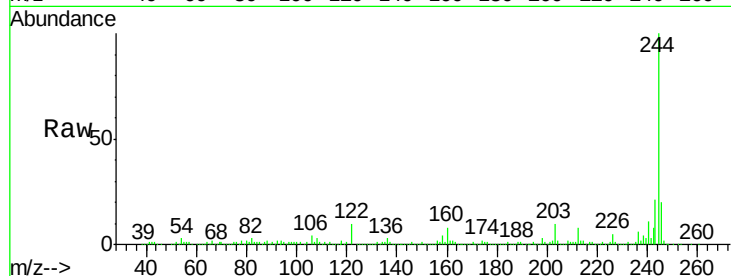
#78
 Terphenyl-d14
 Concen: 68.38 ng
 RT: 12.84 min Scan# 941
 Delta R.T. -0.00 min
 Lab File: BF083038.D
 Acq: 19 Nov 2015 5:43

Instrument :
 BNA_F
 ClientSampleId :
 ON-1593

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.1	7.6	11.4
122	9.9	11.3	16.9#

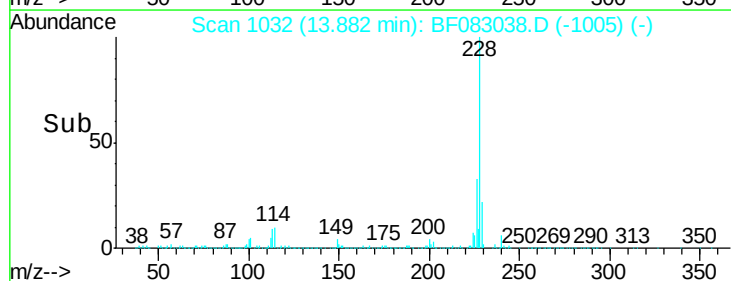
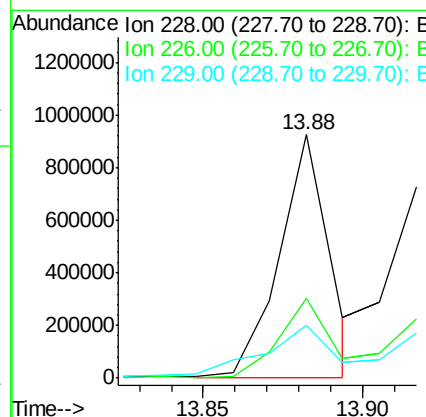
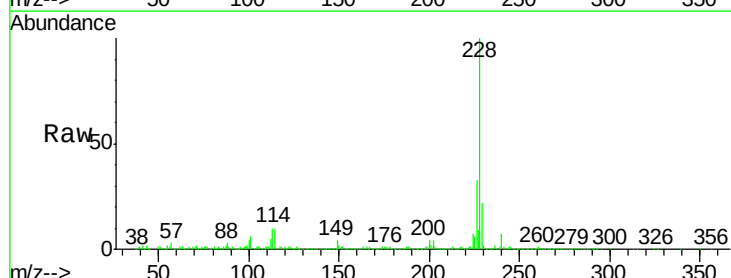
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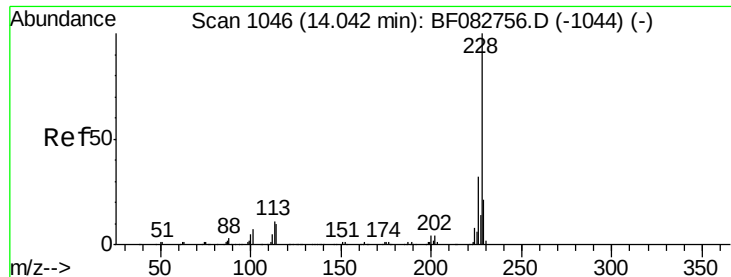
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#80
 Benzo(a)anthracene
 Concen: 61.18 ng m
 RT: 13.88 min Scan# 1032
 Delta R.T. 0.01 min
 Lab File: BF083038.D
 Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	33.0	23.4	35.2
229	21.9	16.3	24.5





#82

Chrysene

Concen: 60.32 ng m

RT: 13.92 min Scan# 1035

Delta R.T. -0.00 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

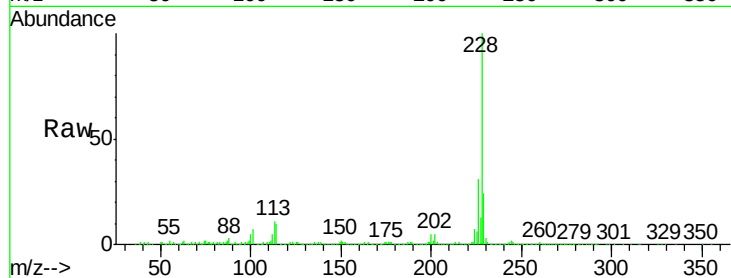
ClientSampleId :

ON-1593

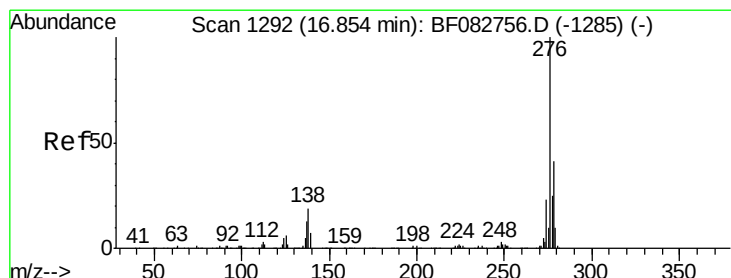
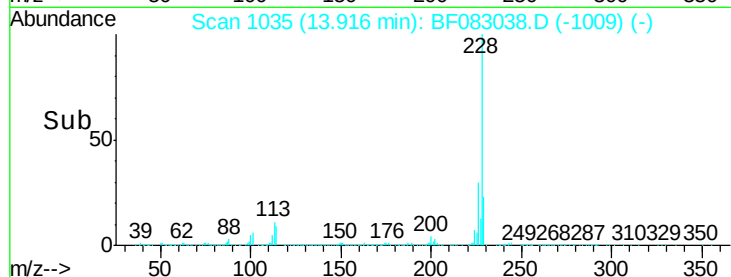
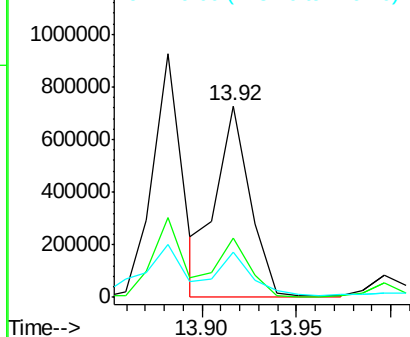
Tgt Ion:	228	Resp:	912017
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.5	38.3
229	23.8	16.3	24.5

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



#85

Indeno(1,2,3-cd)pyrene

Concen: 26.09 ng

RT: 16.61 min Scan# 1271

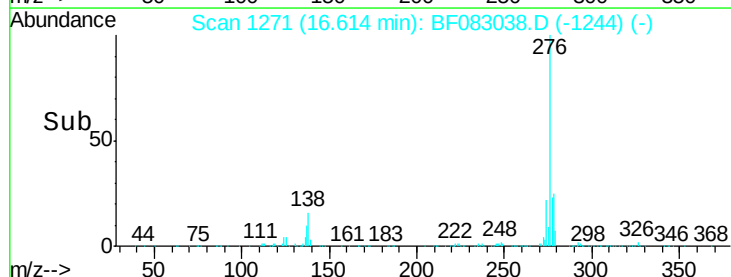
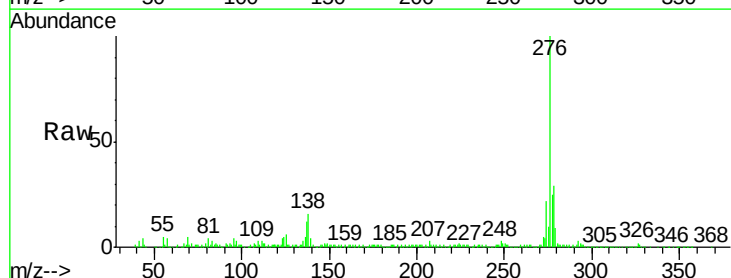
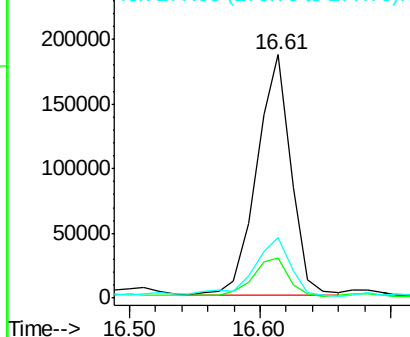
Delta R.T. 0.01 min

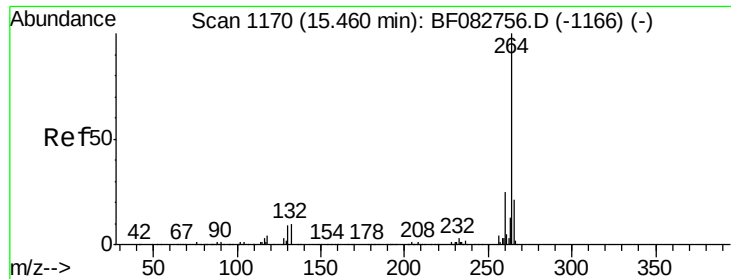
Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Tgt Ion:	276	Resp:	339728
Ion Ratio	Lower	Upper	
276	100		
138	17.0	15.3	22.9
277	27.8	20.2	30.4

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





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.29 min Scan# 1155

Delta R.T. 0.01 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Instrument :

BNA_F

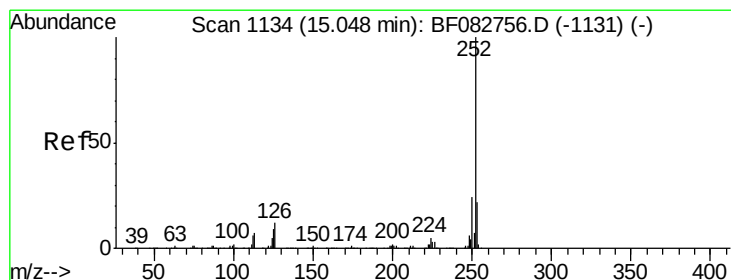
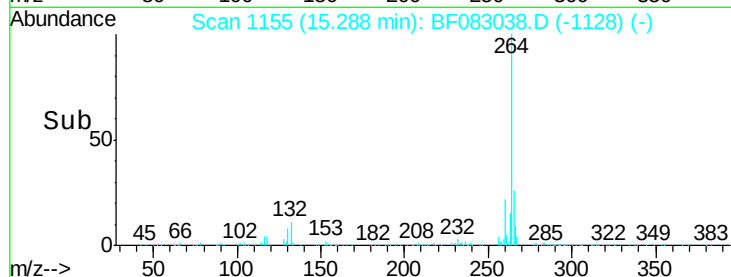
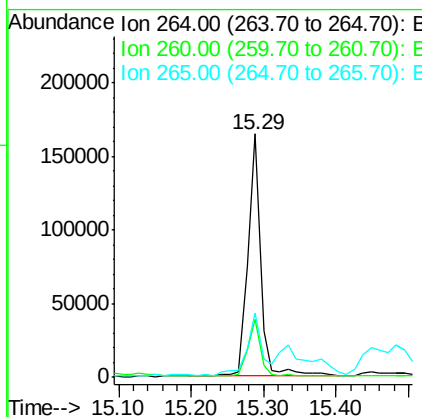
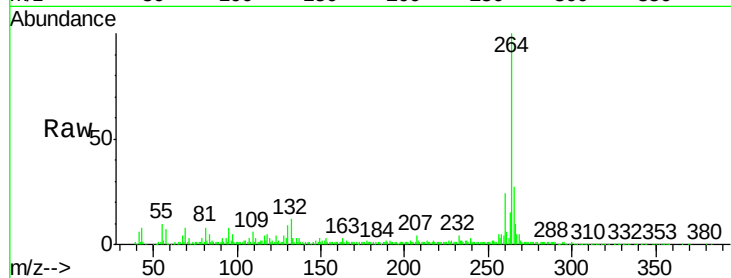
ClientSampleId :

ON-1593

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.8	19.8	29.6	
265	26.5	17.4	26.0	

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#87

Benzo(b)fluoranthene

Concen: 75.05 ng m

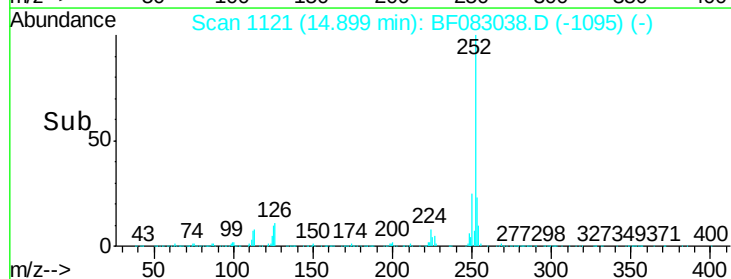
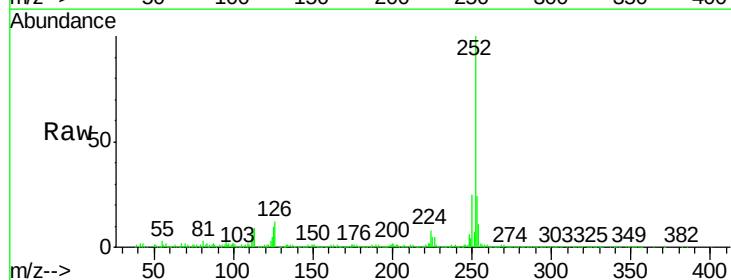
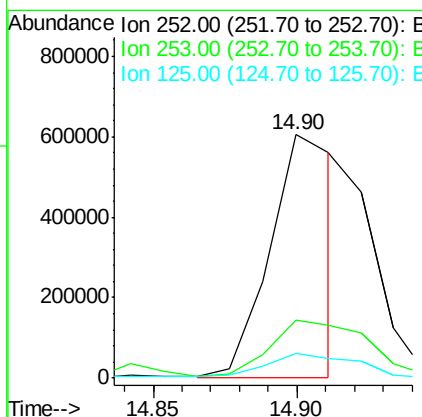
RT: 14.90 min Scan# 1121

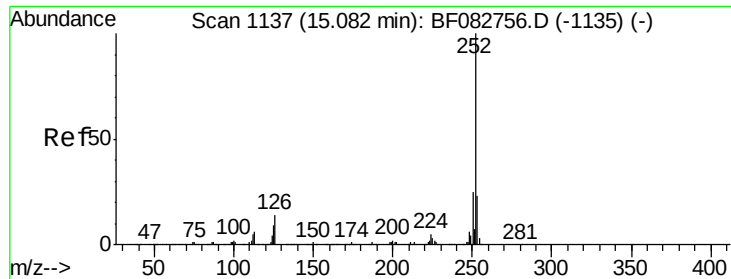
Delta R.T. -0.00 min

Lab File: BF083038.D

Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.7	17.8	26.8	
125	10.4	5.4	8.2	





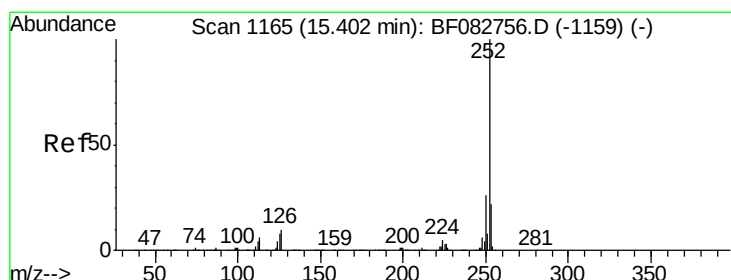
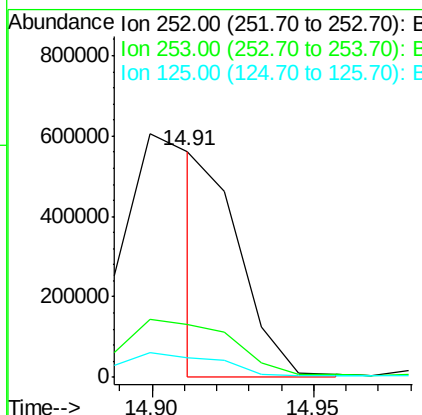
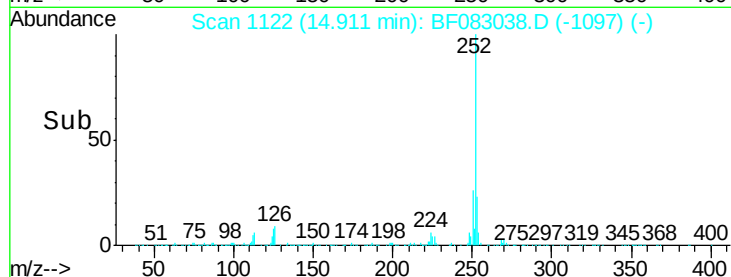
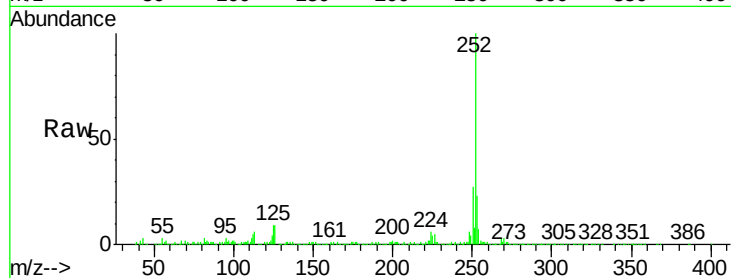
#88
Benzo(k)fluoranthene
Concen: 35.81 ng m
RT: 14.91 min Scan# 1122
Delta R.T. -0.01 min
Lab File: BF083038.D
Acq: 19 Nov 2015 5:43

Instrument :
BNA_F
ClientSampleId :
ON-1593

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	415693		
253	23.2	17.9	26.9	
125	8.7	3.5	5.3#	

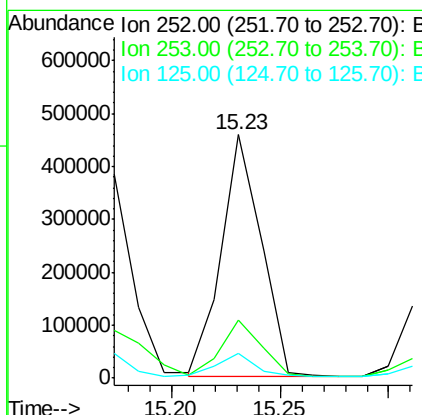
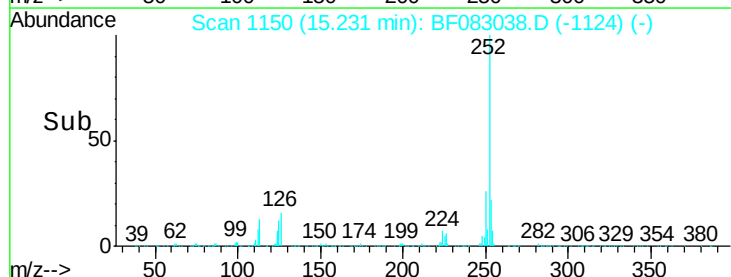
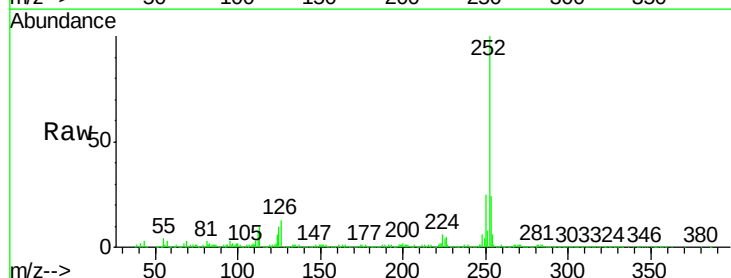
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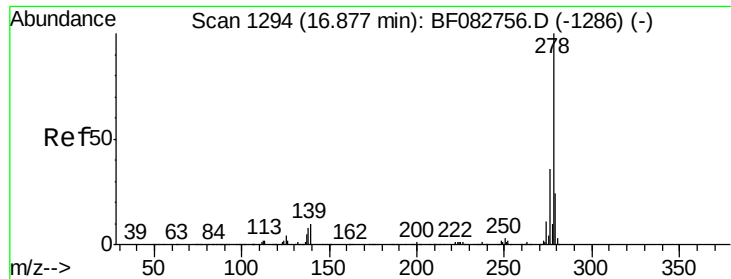
Mmdadoda
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#89
Benzo(a)pyrene
Concen: 51.60 ng
RT: 15.23 min Scan# 1150
Delta R.T. -0.00 min
Lab File: BF083038.D
Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	584899		
253	23.9	17.3	25.9	
125	10.2	7.1	10.7	





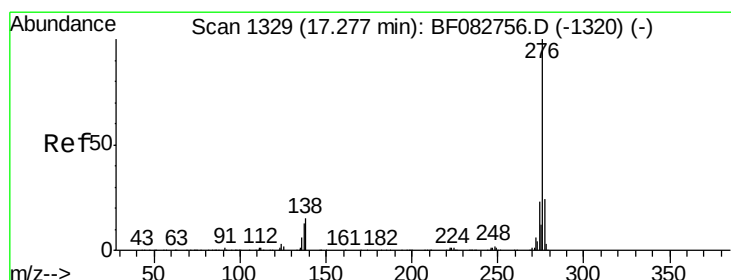
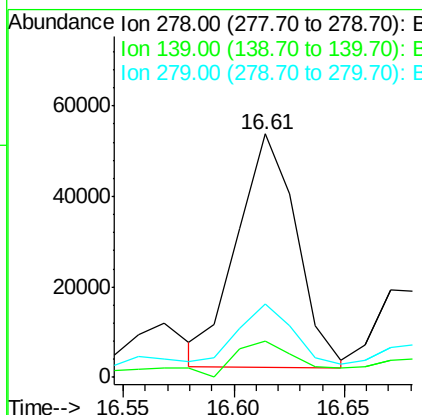
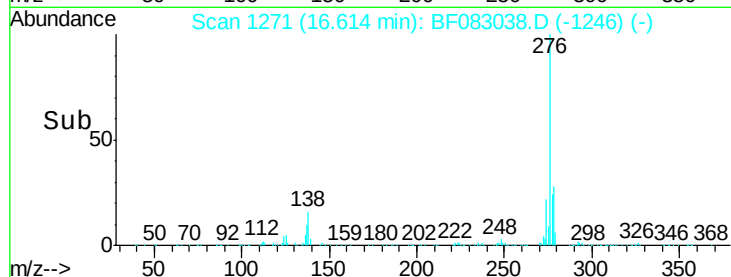
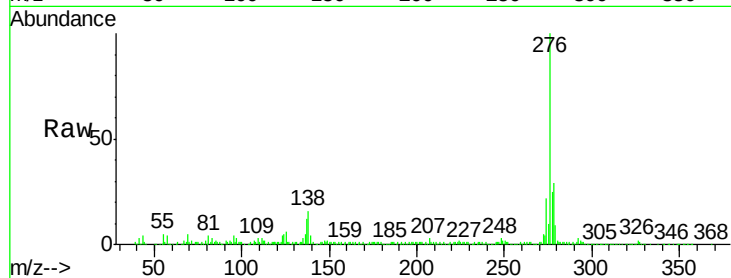
#90
Dibenzo(a,h)anthracene
Concen: 10.04 ng m
RT: 16.61 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BF083038.D
Acq: 19 Nov 2015 5:43

Instrument :
BNA_F
ClientSampleId :
ON-1593

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.8	9.9	14.9
279	30.2	19.6	29.4

Manual Integrations
APPROVED

Mmdadoda
11/22/2015 12:13:14 AM



#91
Benzo(g,h,i)perylene
Concen: 32.21 ng
RT: 17.01 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BF083038.D
Acq: 19 Nov 2015 5:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.2	28.8
138	16.5	13.1	19.7

