

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
 Data File : BF079619.D
 Acq On : 30 May 2015 23:04
 Operator : TP/IZ
 Sample : G2416-08 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RAMPTP-440SB2.1(4)

Manual Integrations
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Quant Time: Jun 01 03:17:13 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 01 02:59:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	65240	20.00	ng	0.00
21) Naphthalene-d8	8.51	136	270830	20.00	ng	0.00
38) Acenaphthene-d10	10.67	164	129144	20.00	ng	0.00
63) Phenanthrene-d10	12.51	188	238863	20.00	ng	0.00
75) Chrysene-d12	15.78	240	247093	20.00	ng	0.00
86) Perylene-d12	17.44	264	266192	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	77087	20.49	ng	0.01
7) Phenol-d6	6.54	99	100407	20.94	ng	0.00
23) Nitrobenzene-d5	7.63	82	55263	11.80	ng	0.00
41) 2,4,6-Tribromophenol	11.66	330	29143	20.55	ng	0.00
44) 2-Fluorobiphenyl	9.86	172	126529	13.98	ng	0.00
78) Terphenyl-d14	14.50	244	154191	14.64	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.54	128	294863	22.69	ng	99
37) 2-Methylnaphthalene	9.39	142	148177	16.42	ng	98
45) 1,1'-Biphenyl	9.98	154	40508	4.02	ng	94
49) Dimethylphthalate	10.38	163	22226	2.34	ng	# 99
51) Acenaphthene	10.72	154	258858	34.23	ng	98
54) Dibenzofuran	10.94	168	361538	32.42	ng	91
57) Fluorene	11.36	166	470801	51.22	ng	99
70) Phenanthrene	12.55	178	2421154	184.76	ng	95
71) Anthracene	12.61	178	957312	71.96	ng	98
72) Carbazole	12.82	167	454876	35.51	ng	98
74) Fluoranthene	14.02	202	2374465	168.97	ng	97
77) Pyrene	14.30	202	1924245	125.70	ng	97
80) Benzo(a)anthracene	15.78	228	1134957	79.85	ng	99
82) Chrysene	15.82	228	918830	68.01	ng	97
85) Indeno(1,2,3-cd)pyrene	18.71	276	419099	24.12	ng	93
87) Benzo(b)fluoranthene	17.03	252	968306m	63.78	ng	
88) Benzo(k)fluoranthene	17.04	252	434545m	32.01	ng	
89) Benzo(a)pyrene	17.38	252	737268	55.84	ng	98
90) Dibenzo(a,h)anthracene	18.71	278	120926m	7.41	ng	
91) Benzo(g,h,i)perylene	19.07	276	402312	28.80	ng	97

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

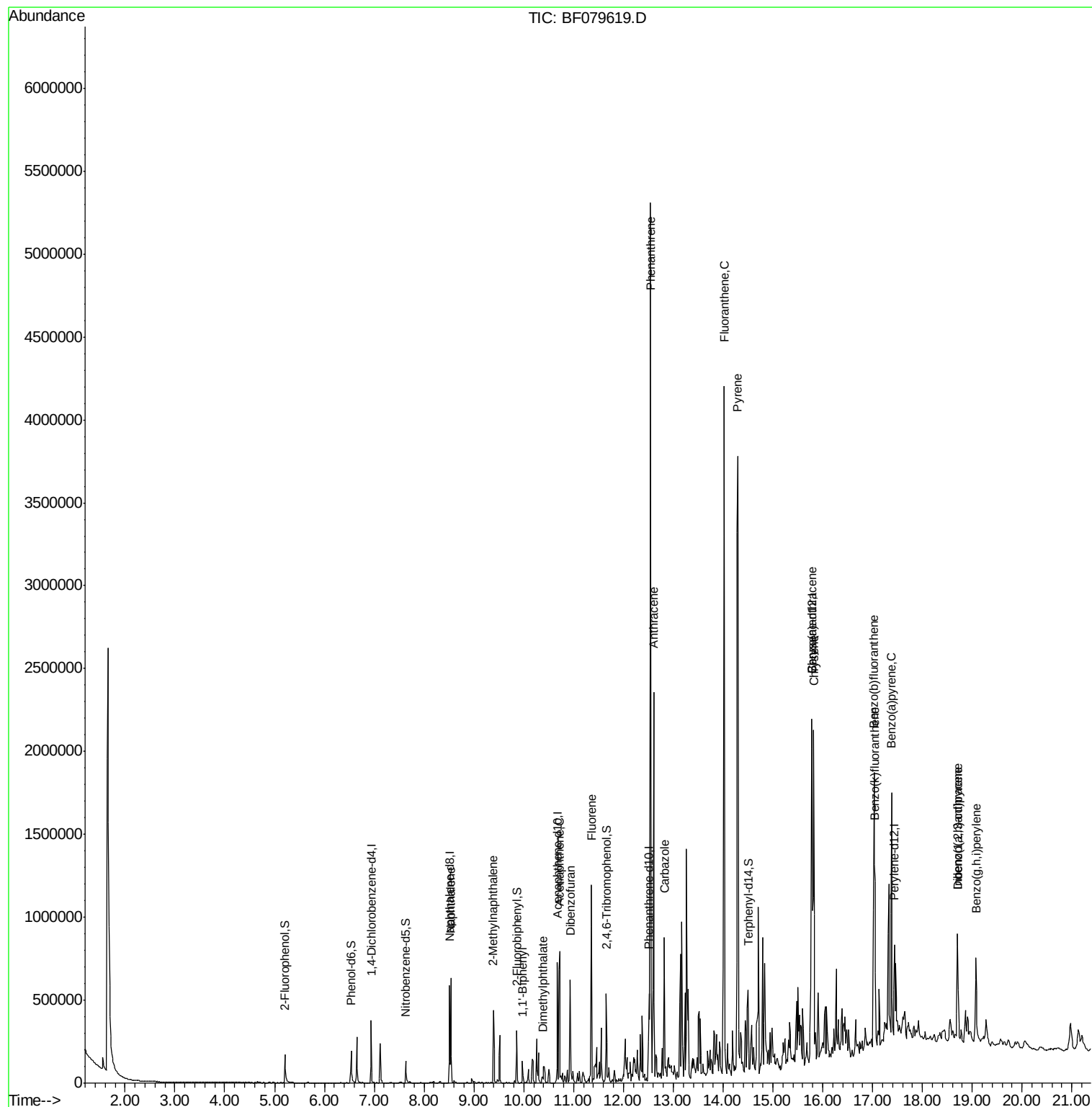
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
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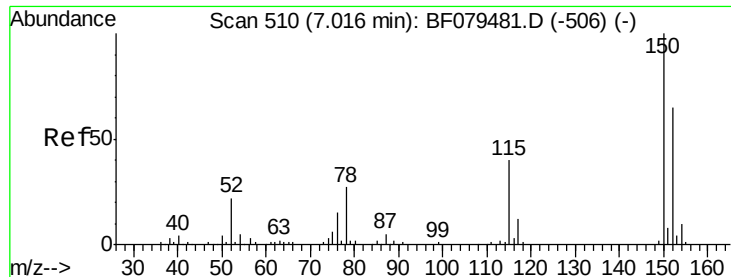
Instrument :
BNA_F
ClientSampleId :
RAMPTP-440SB2.1(4)

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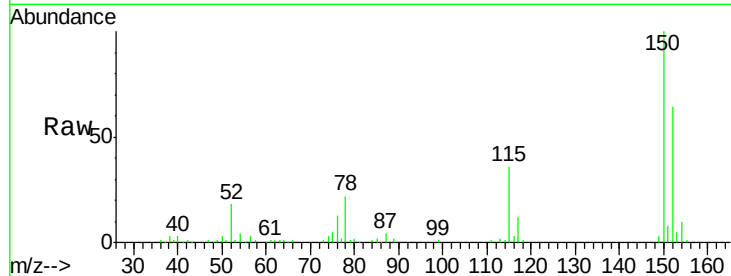




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.94 min Scan# 503
Delta R.T. 0.00 min
Lab File: BF079619.D
Acq: 30 May 2015 23:04

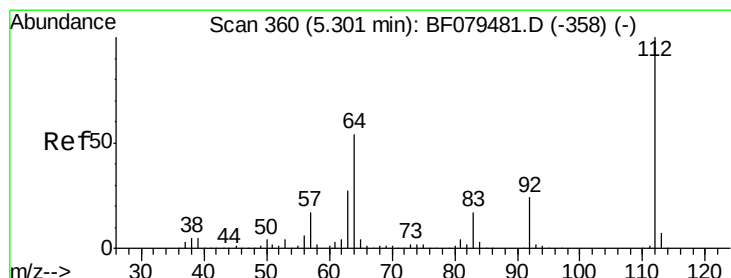
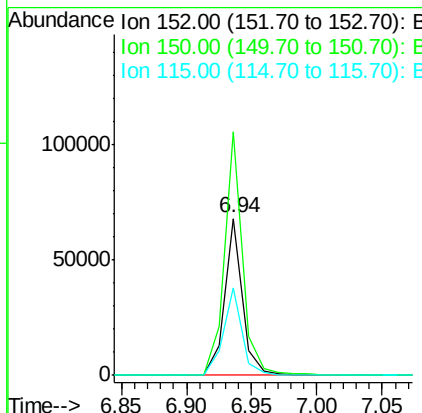
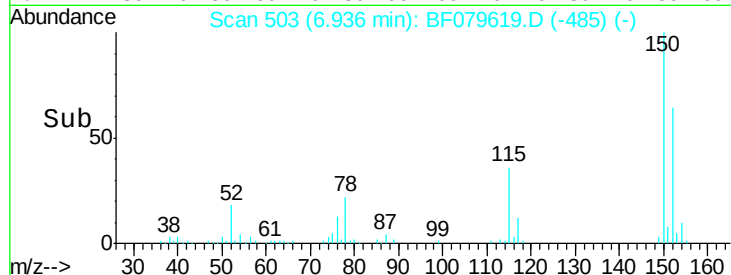
Instrument :
BNA_F
ClientSampleId :
RAMPTP-440SB2.1(4)



Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.0	186.0
115	56.2	49.6	74.4

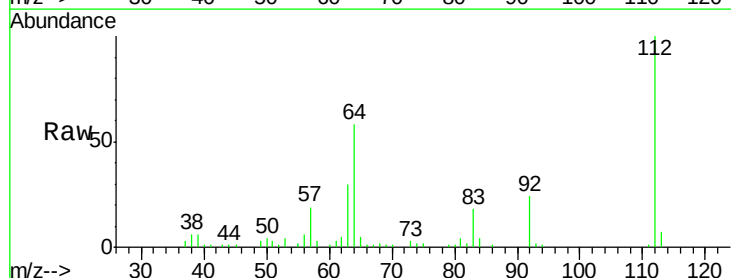
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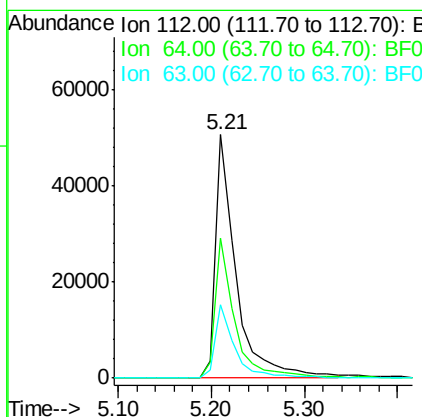
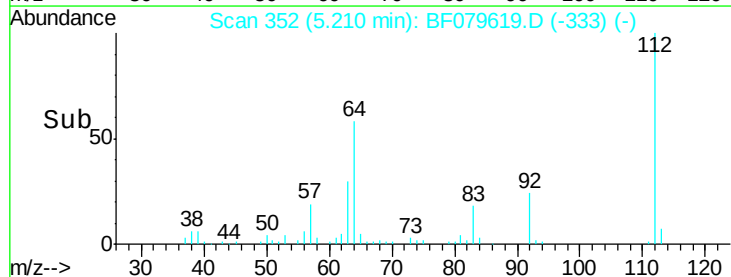


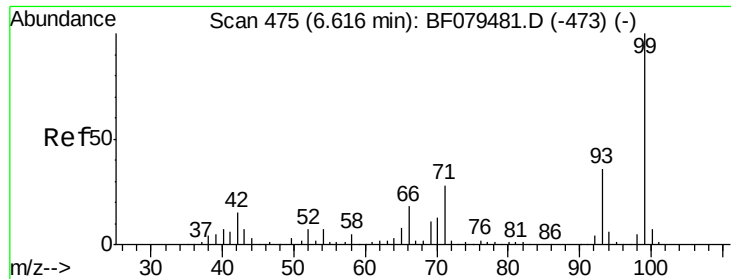
#5

2-Fluorophenol
Concen: 20.49 ng
RT: 5.21 min Scan# 352
Delta R.T. 0.01 min
Lab File: BF079619.D
Acq: 30 May 2015 23:04



Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.7	43.5	65.3
63	30.0	21.8	32.8





#7

Phenol-d6

Concen: 20.94 ng

RT: 6.54 min Scan# 468

Delta R.T. 0.00 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Instrument :

BNA_F

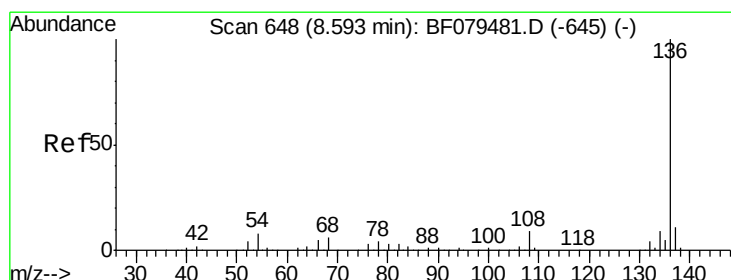
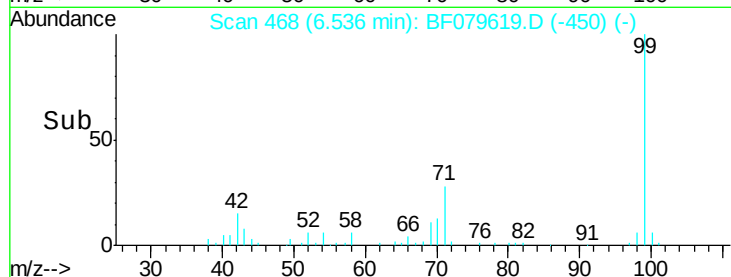
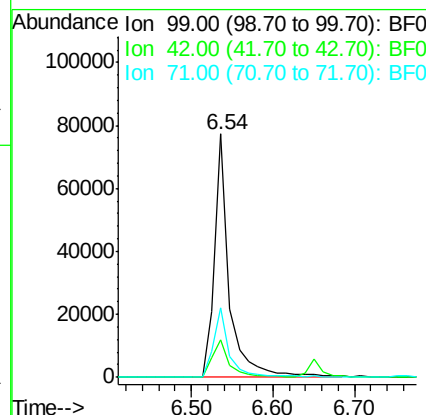
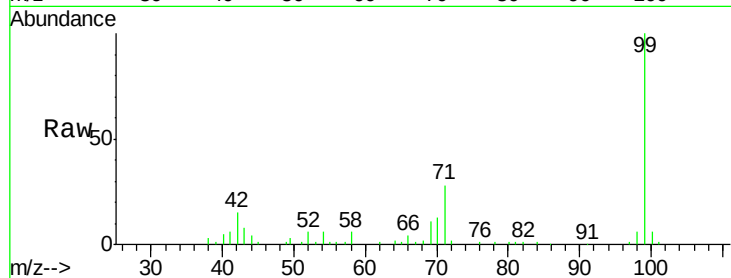
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Tgt Ion:	99	Resp:	100407
Ion Ratio	Lower	Upper	
99	100		
42	15.5	11.9	17.9
71	28.4	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

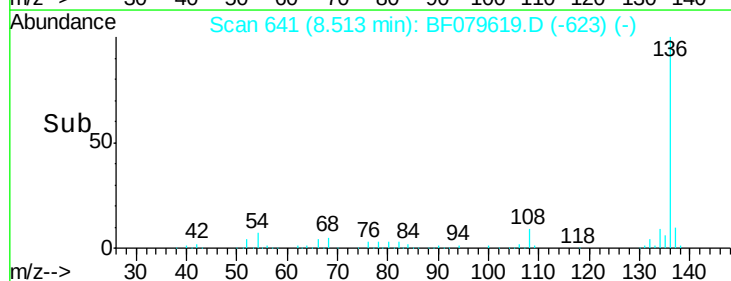
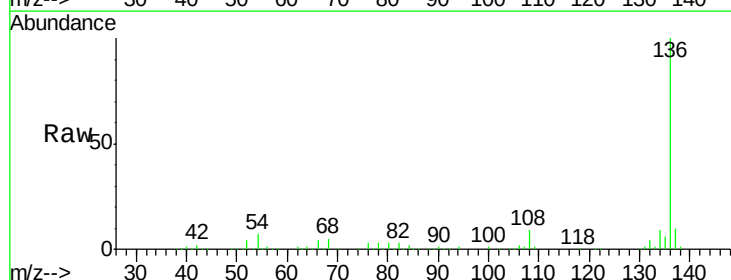
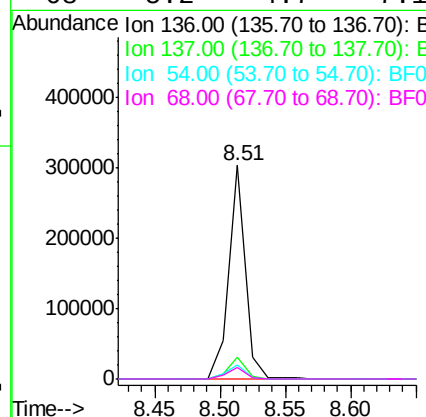
RT: 8.51 min Scan# 641

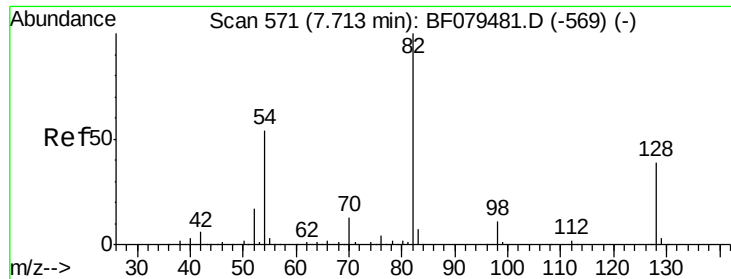
Delta R.T. 0.00 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Tgt Ion:	136	Resp:	270830
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.5	12.7
54	6.6	6.6	9.8
68	5.2	4.7	7.1





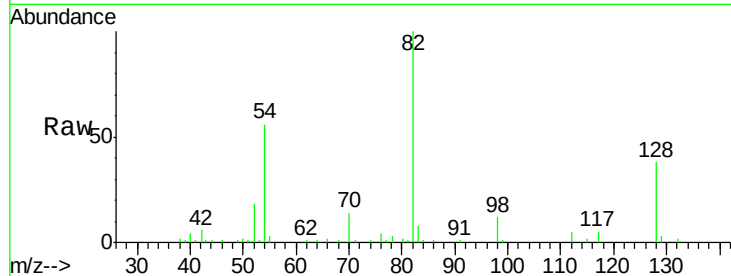
#23
 Nitrobenzene-d5
 Concen: 11.80 ng
 RT: 7.63 min Scan# 564
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Instrument :
 BNA_F
 ClientSampleId :
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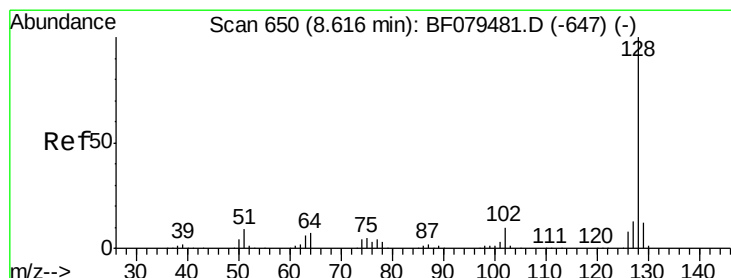
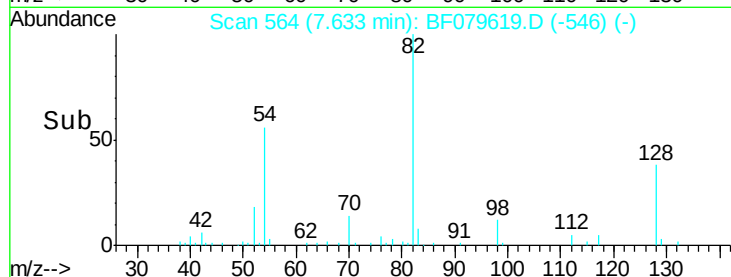
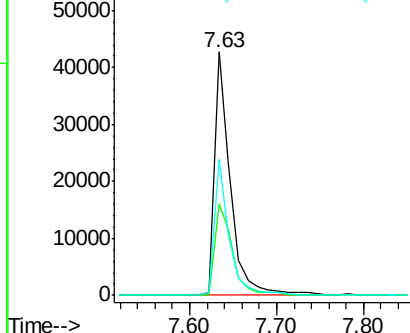
Tgt Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.8	46.2
54	55.9	42.8	64.2

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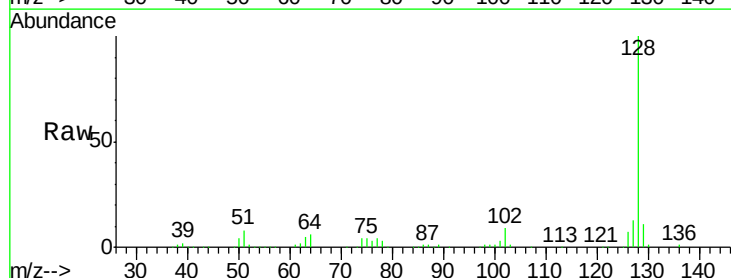


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

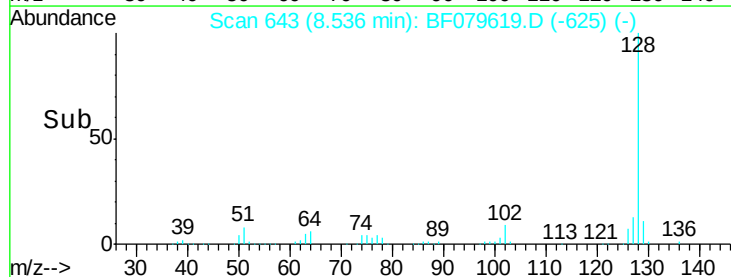
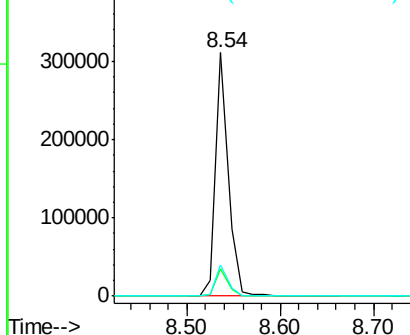


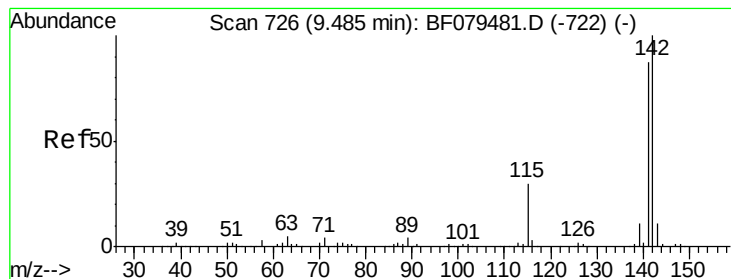
#31
 Naphthalene
 Concen: 22.69 ng
 RT: 8.54 min Scan# 643
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.3	13.9
127	12.7	10.6	15.8



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





#37

2-Methylnaphthalene

Concen: 16.42 ng

RT: 9.39 min Scan# 718

Delta R.T. 0.00 min

Lab File: BF079619.D

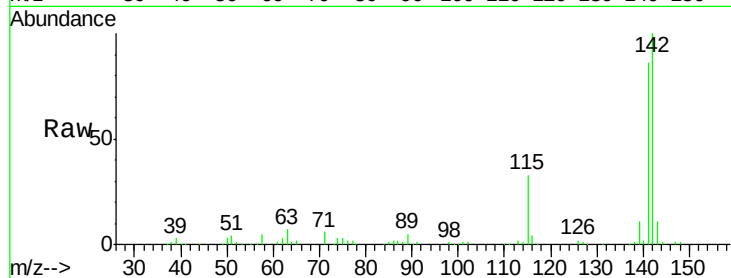
Acq: 30 May 2015 23:04

Instrument :

BNA_F

ClientSampleId :

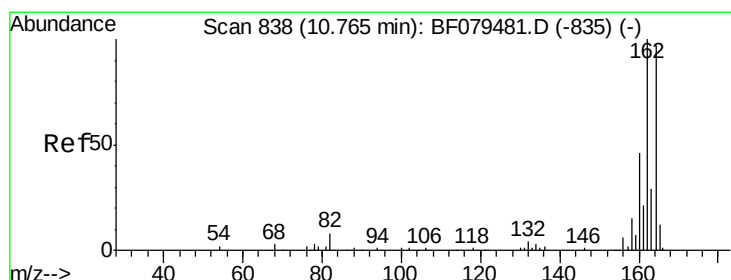
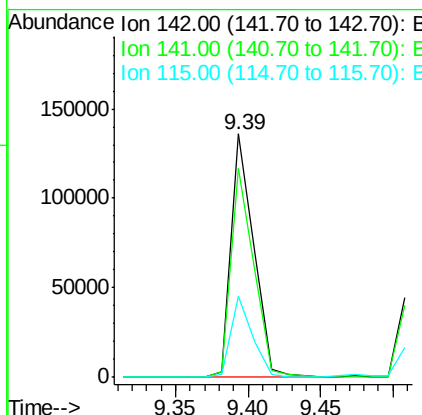
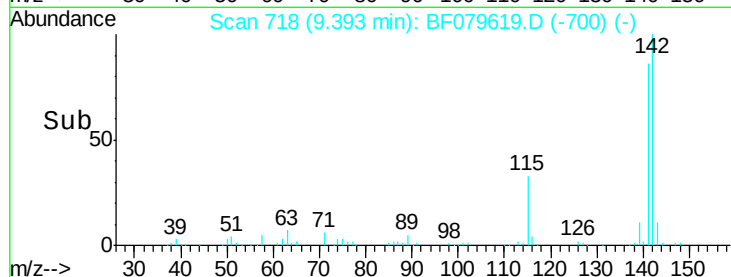
RAMPTP-440SB2.1(4)



Tgt Ion:	142	Resp:	148177
Ion Ratio	Lower	Upper	
142	100		
141	86.1	69.5	104.3
115	33.3	23.8	35.6

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#38

Acenaphthene-d10

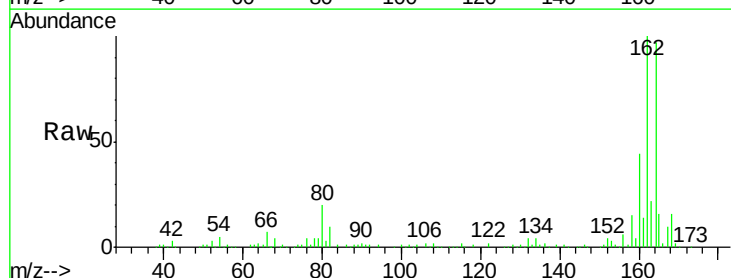
Concen: 20.00 ng

RT: 10.67 min Scan# 830

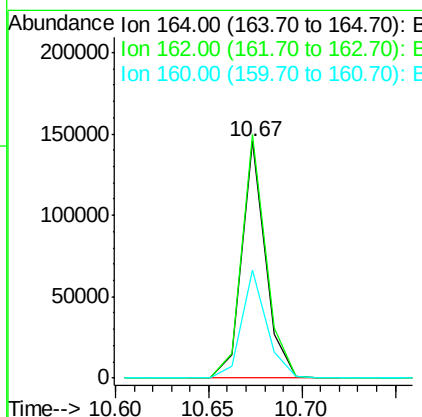
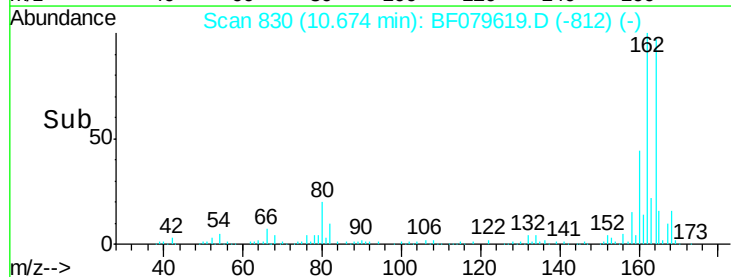
Delta R.T. 0.00 min

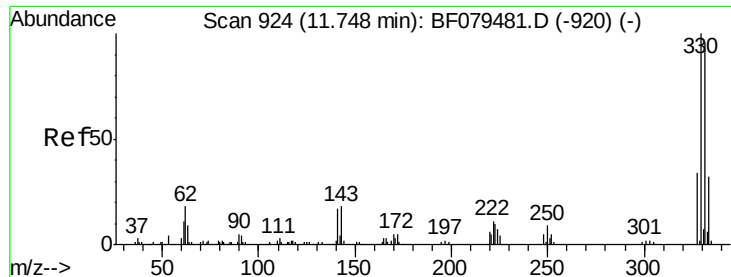
Lab File: BF079619.D

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Tgt Ion:	164	Resp:	129144
Ion Ratio	Lower	Upper	
164	100		
162	102.9	82.6	124.0
160	45.4	37.7	56.5





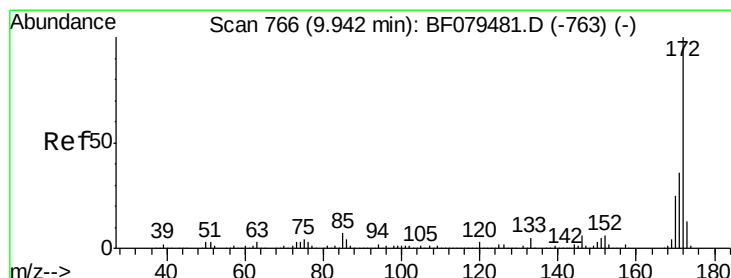
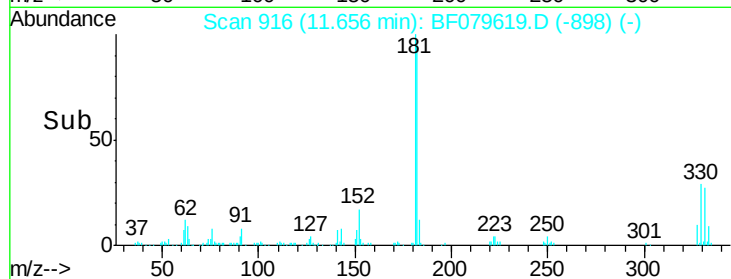
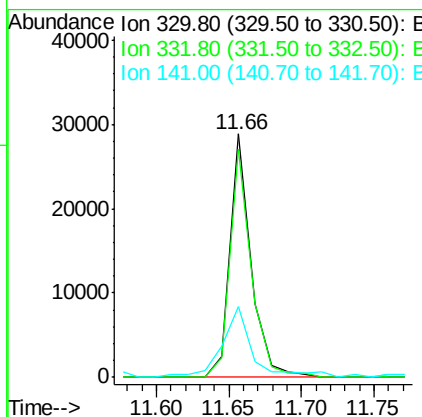
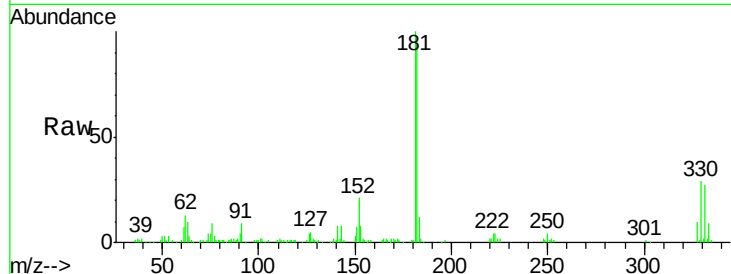
#41
 2,4,6-Tribromophenol
 Concen: 20.55 ng
 RT: 11.66 min Scan# 916
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Instrument :
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 ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	94.7	0.0	0.0#
141	42.9	0.0	0.0#

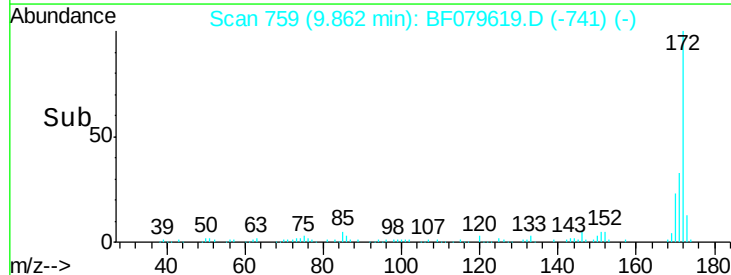
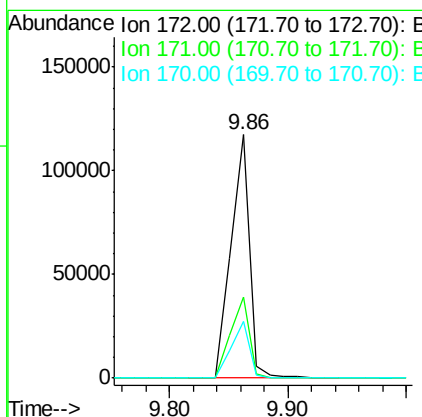
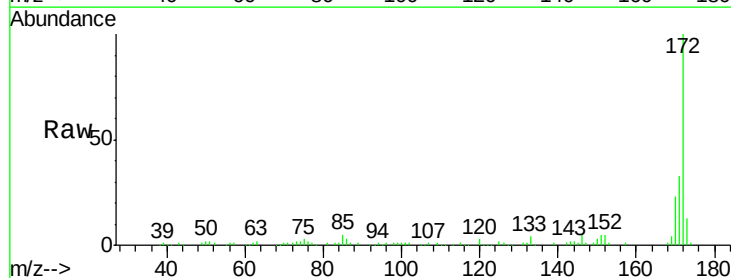
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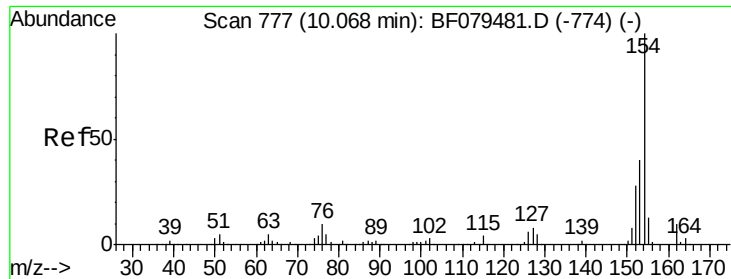
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#44
 2-Fluorobiphenyl
 Concen: 13.98 ng
 RT: 9.86 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	33.1	28.5	42.7
170	23.3	19.7	29.5





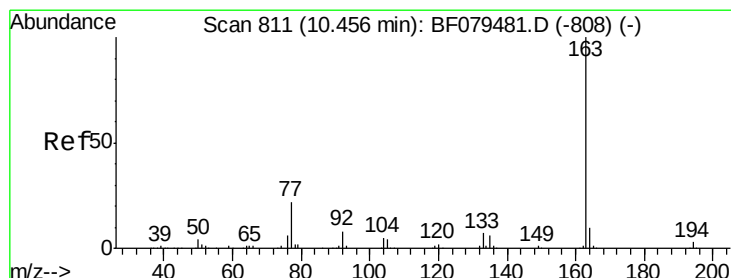
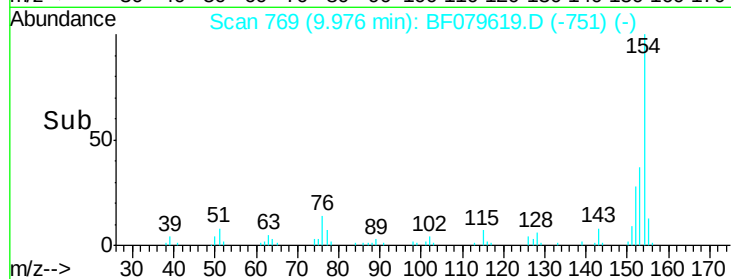
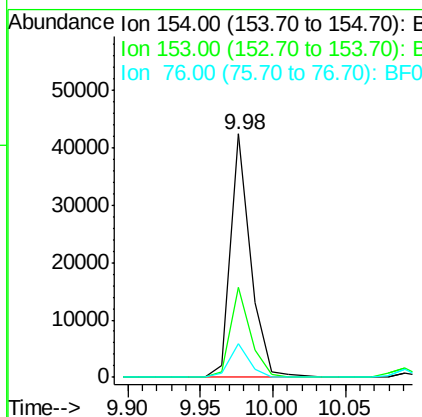
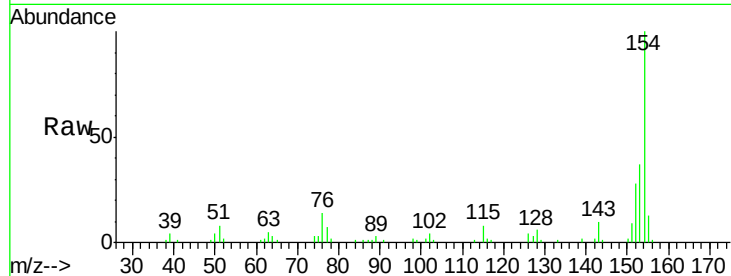
#45
 1,1'-Biphenyl
 Concen: 4.02 ng
 RT: 9.98 min Scan# 769
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Instrument :
 BNA_F
 ClientSampleId :
 RAMPTP-440SB2.1(4)

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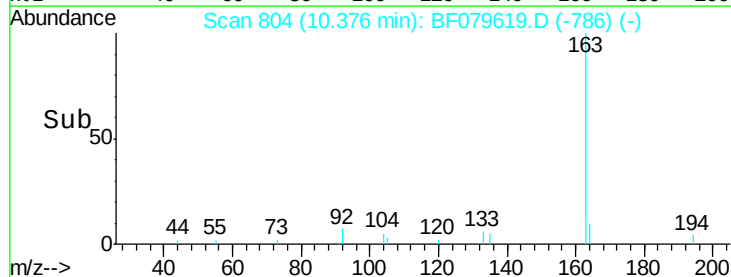
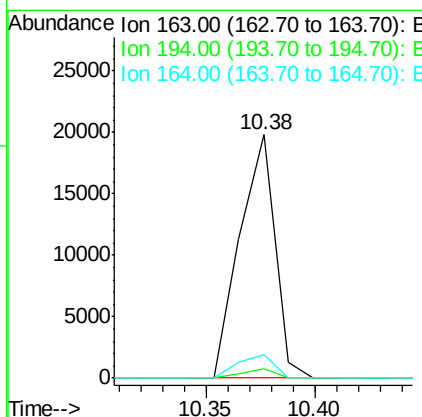
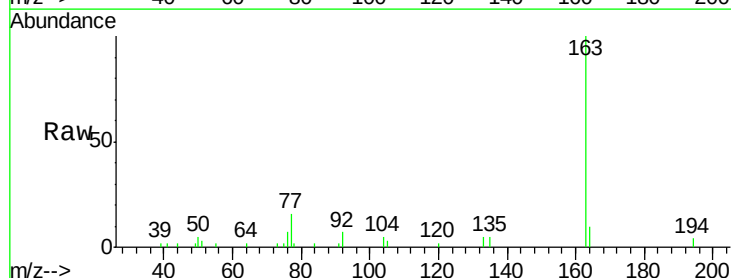
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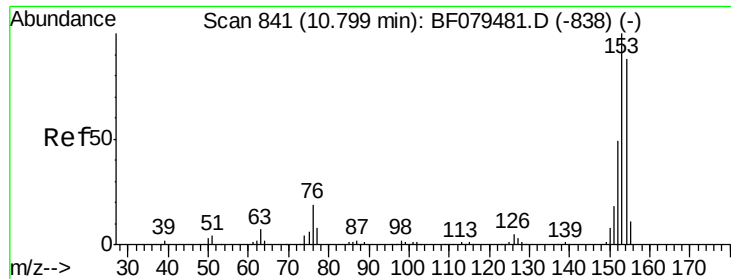
Tgt Ion	Ratio	Lower	Upper
154	100		
153	37.0	19.5	59.5
76	14.1	0.0	29.6



#49
 Dimethylphthalate
 Concen: 2.34 ng
 RT: 10.38 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.4	3.6#
164	9.8	8.2	12.4





#51

Acenaphthene

Concen: 34.23 ng

RT: 10.72 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF079619.D

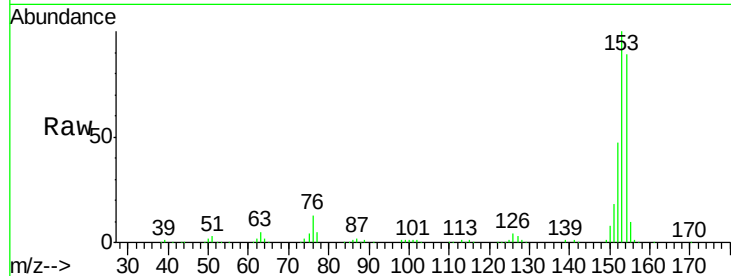
Acq: 30 May 2015 23:04

Instrument :

BNA_F

ClientSampleId :

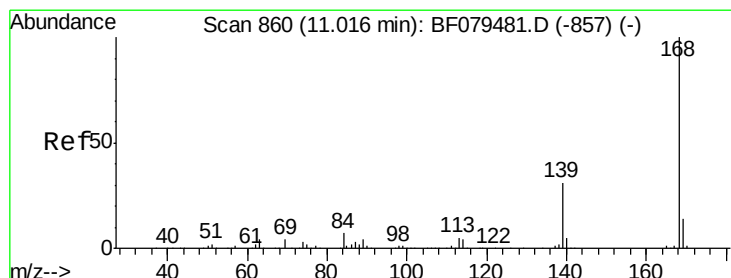
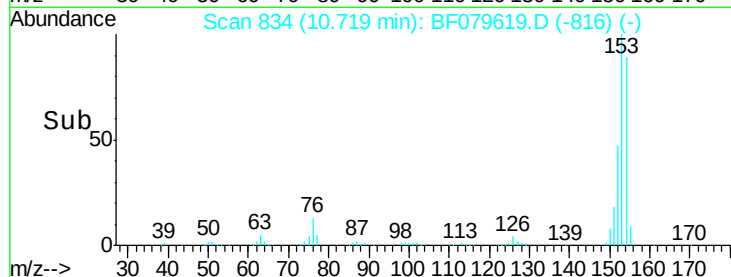
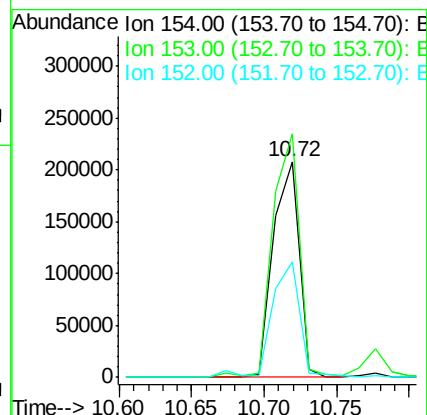
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Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.0	91.1	136.7
152	53.5	44.6	66.8

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#54

Dibenzofuran

Concen: 32.42 ng

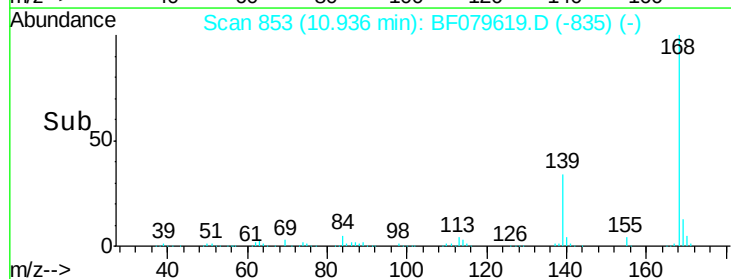
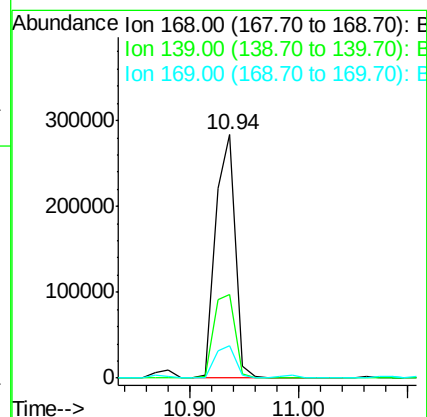
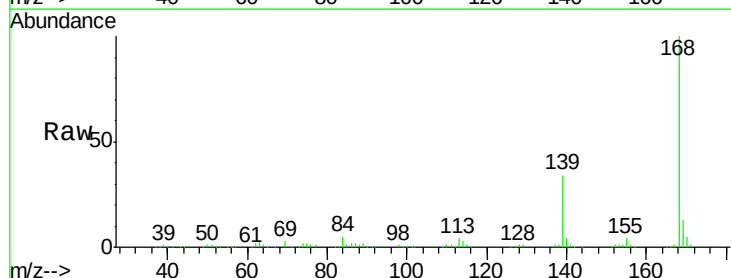
RT: 10.94 min Scan# 853

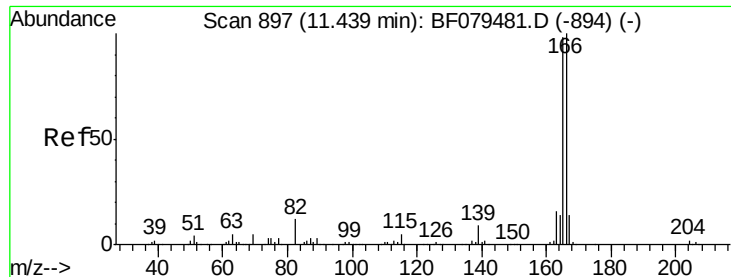
Delta R.T. 0.00 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.2	32.9	49.3
169	13.4	11.1	16.7





#57

Fluorene

Concen: 51.22 ng

RT: 11.36 min Scan# 890

Delta R.T. 0.00 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Instrument :

BNA_F

ClientSampleId :

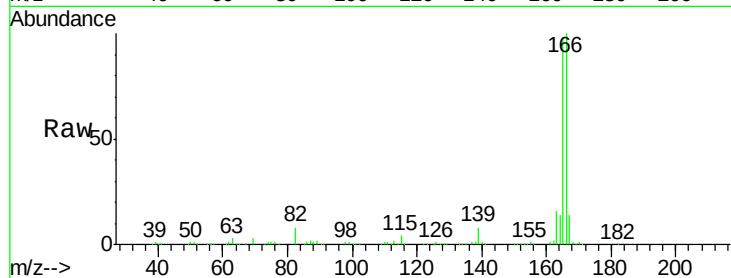
RAMPTP-440SB2.1(4)

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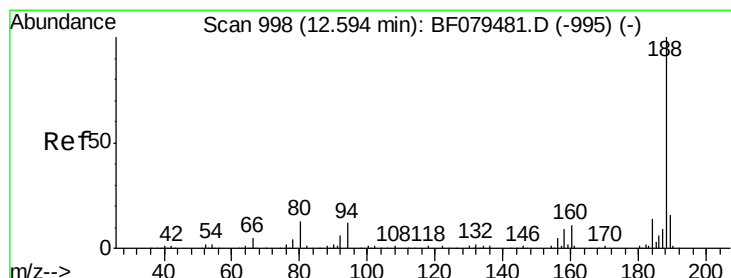
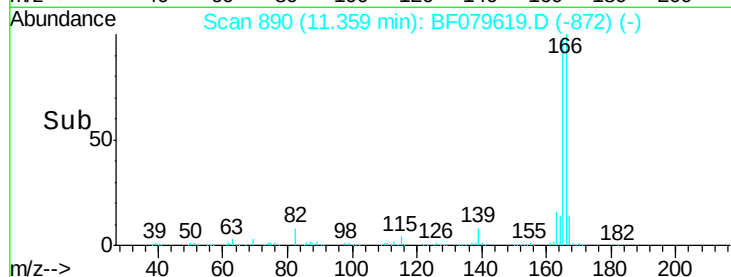
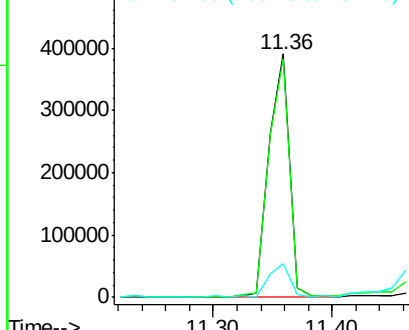
apatel

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Tgt Ion:	166	Resp:	470801
Ion Ratio		Lower	Upper
166	100		
165	97.7	78.6	117.8
167	13.8	10.8	16.2



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

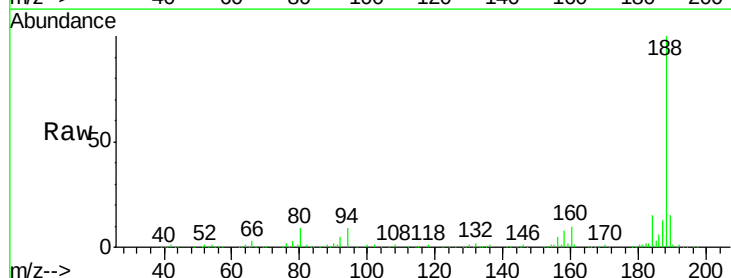
RT: 12.51 min Scan# 991

Delta R.T. 0.00 min

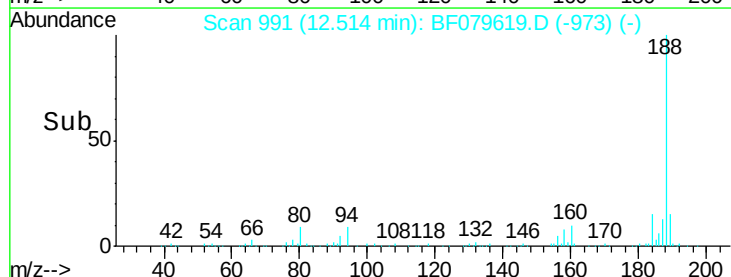
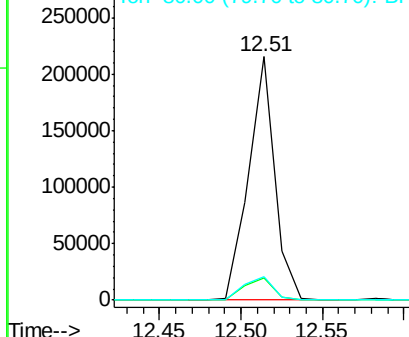
Lab File: BF079619.D

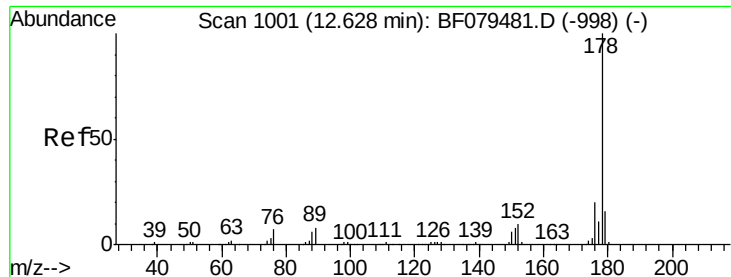
Acq: 30 May 2015 23:04

Tgt Ion:	188	Resp:	238863
Ion Ratio		Lower	Upper
188	100		
94	9.3	9.8	14.6#
80	9.5	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





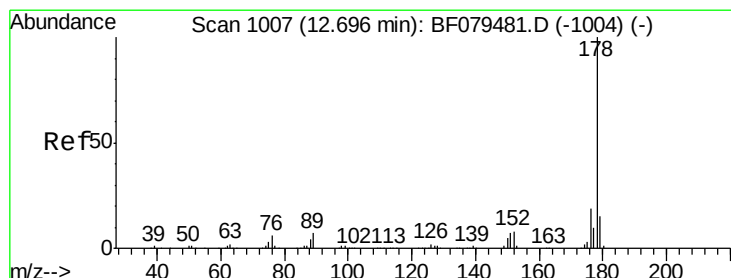
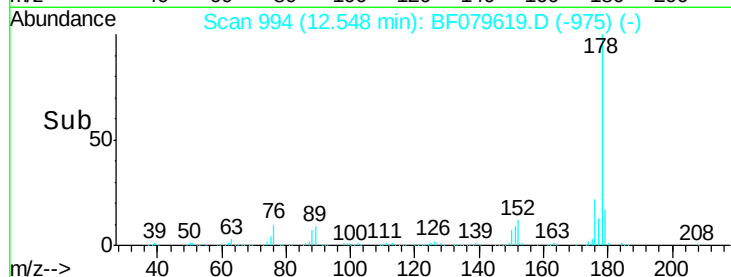
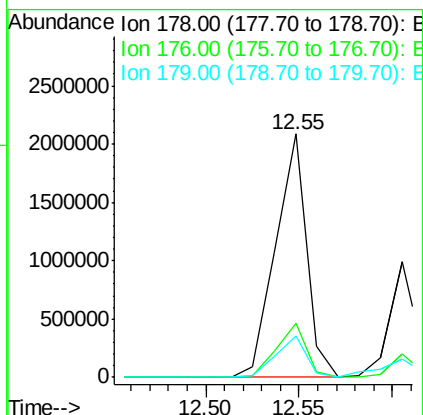
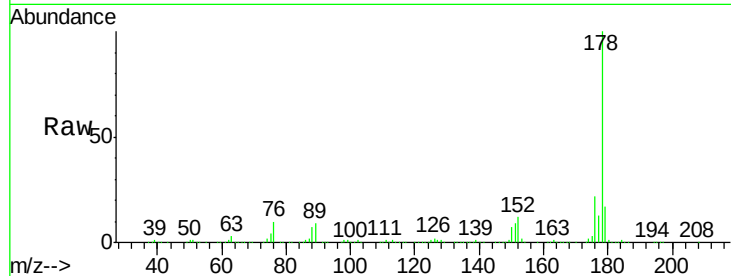
#70
Phenanthrene
Concen: 184.76 ng
RT: 12.55 min Scan# 994
Delta R.T. 0.01 min
Lab File: BF079619.D
Acq: 30 May 2015 23:04

Instrument :
BNA_F
ClientSampleId :
RAMPTP-440SB2.1(4)

Tgt Ion:178 Resp: 2421154
Ion Ratio Lower Upper
178 100
176 22.1 15.7 23.5
179 17.2 12.4 18.6

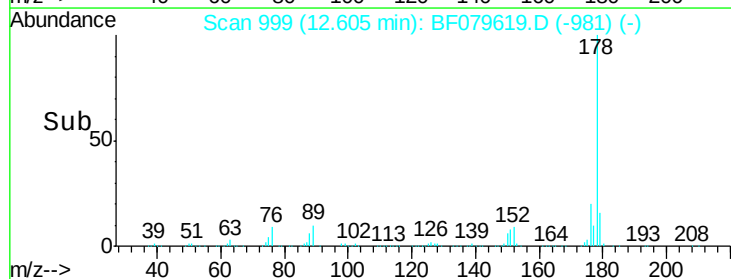
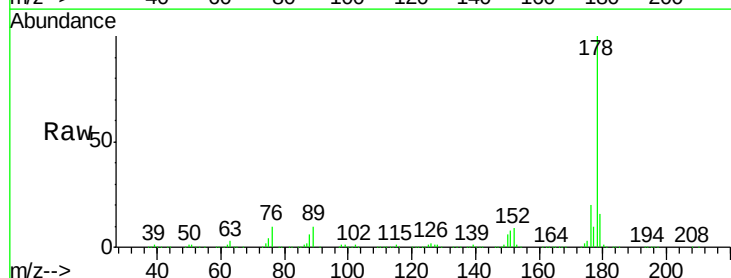
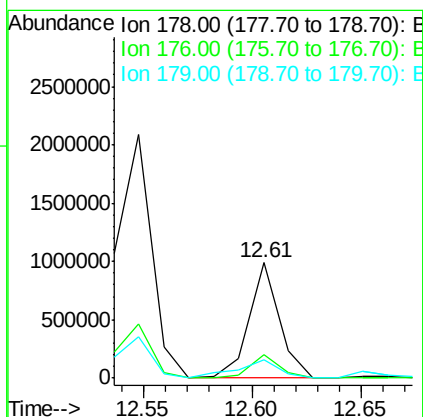
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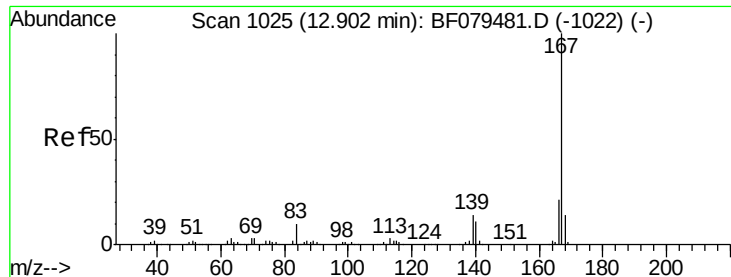
apatel
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#71
Anthracene
Concen: 71.96 ng
RT: 12.61 min Scan# 999
Delta R.T. 0.00 min
Lab File: BF079619.D
Acq: 30 May 2015 23:04

Tgt Ion:178 Resp: 957312
Ion Ratio Lower Upper
178 100
176 19.8 15.3 22.9
179 16.4 12.2 18.4





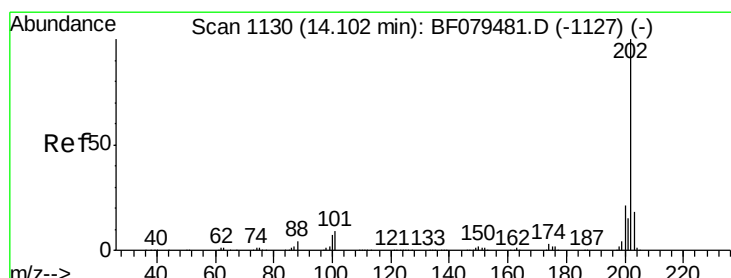
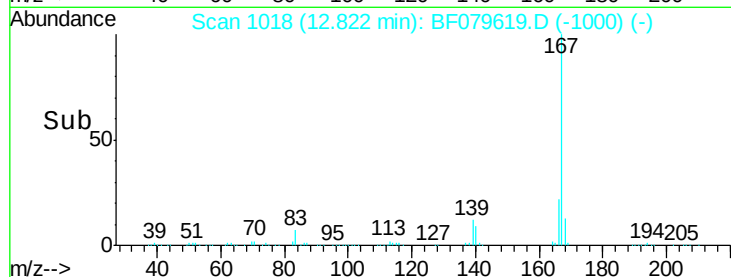
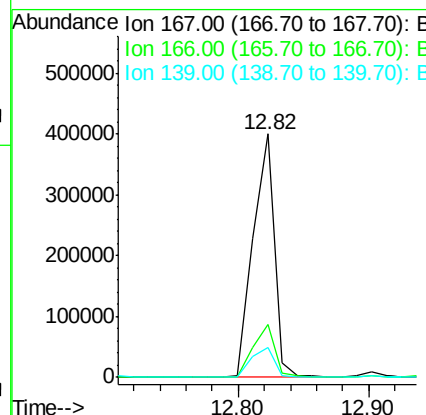
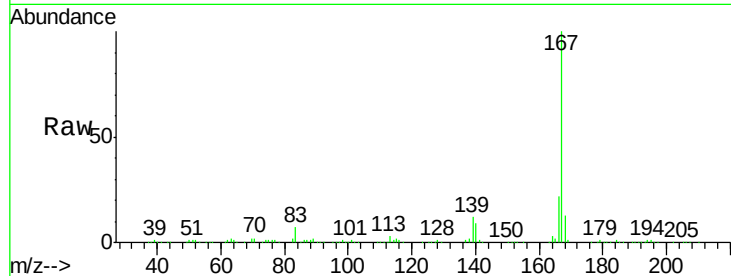
#72
 Carbazole
 Concen: 35.51 ng
 RT: 12.82 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Instrument :
 BNA_F
 ClientSampleId :
 RAMPTP-440SB2.1(4)

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.0	25.4
139	12.4	11.2	16.8

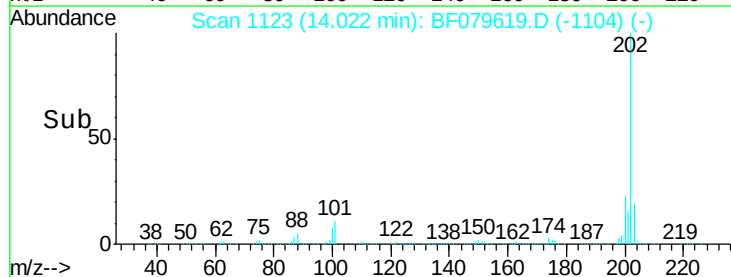
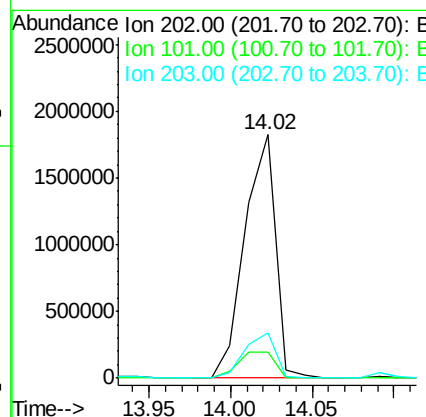
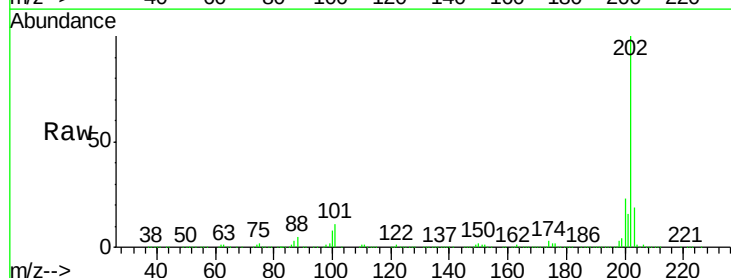
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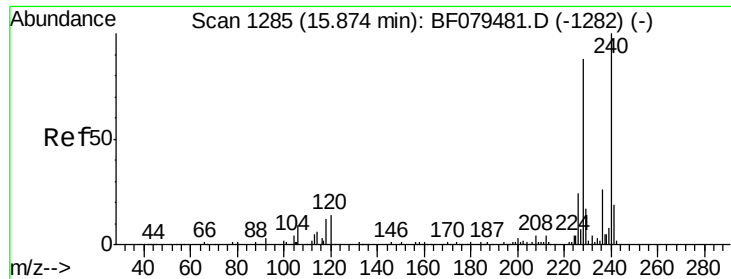
apatel
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#74
 Fluoranthene
 Concen: 168.97 ng
 RT: 14.02 min Scan# 1123
 Delta R.T. 0.01 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	29.3
203	18.8	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.78 min Scan# 1277

Delta R.T. 0.00 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Instrument :

BNA_F

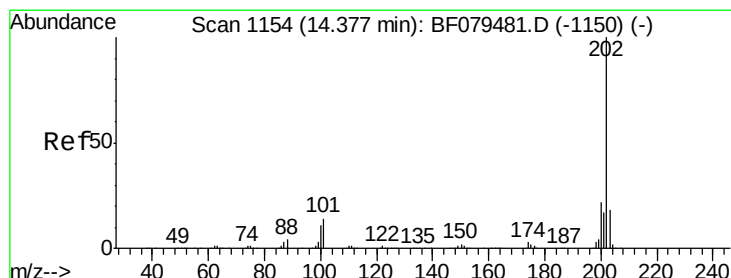
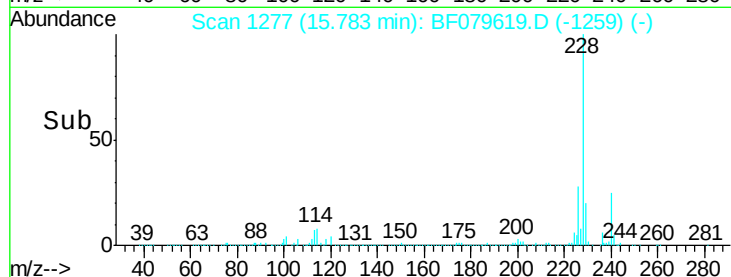
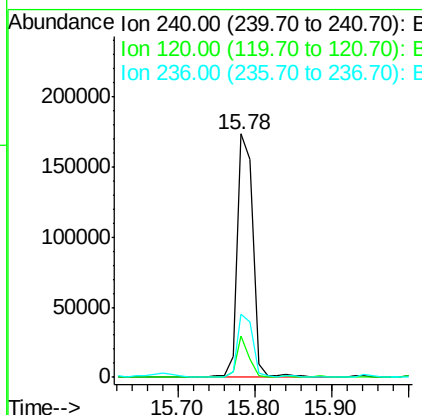
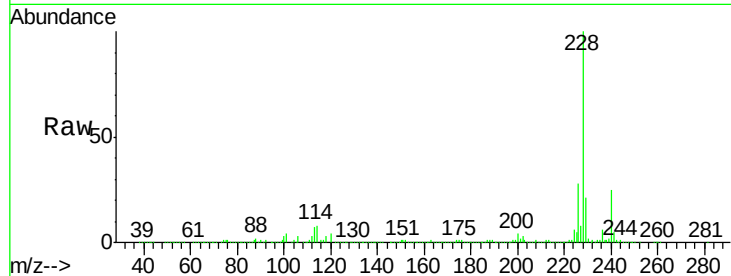
ClientSampleId :

RAMP-TP-440SB2.1(4)

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	247093		
120	17.1	10.8	16.2	
236	25.8	21.0	31.6	

Manual Integrations
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#77

Pyrene

Concen: 125.70 ng

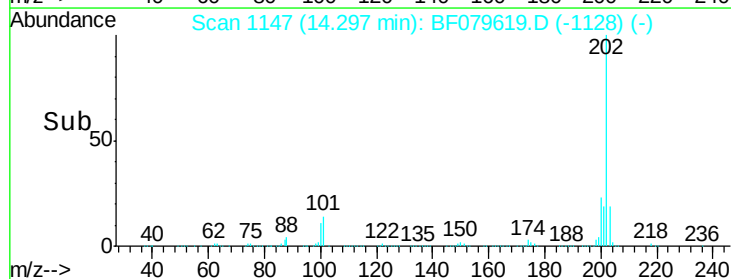
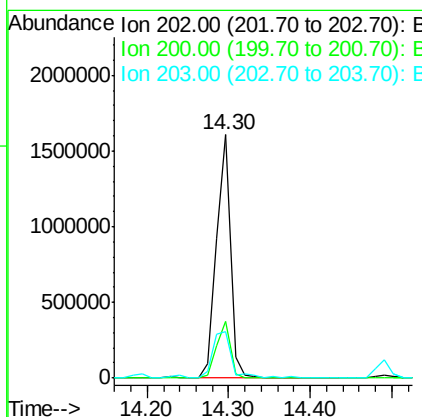
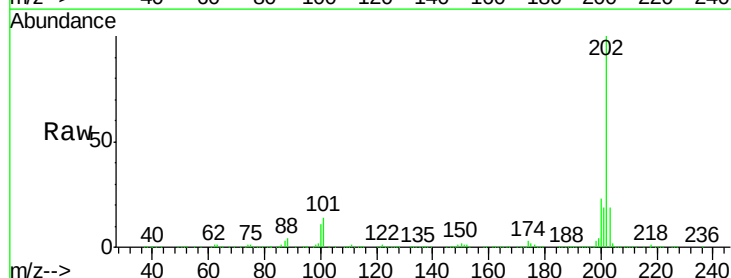
RT: 14.30 min Scan# 1147

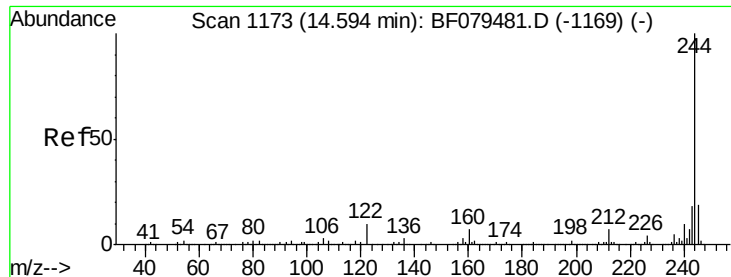
Delta R.T. 0.01 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1924245		
200	23.2	17.5	26.3	
203	19.1	14.4	21.6	





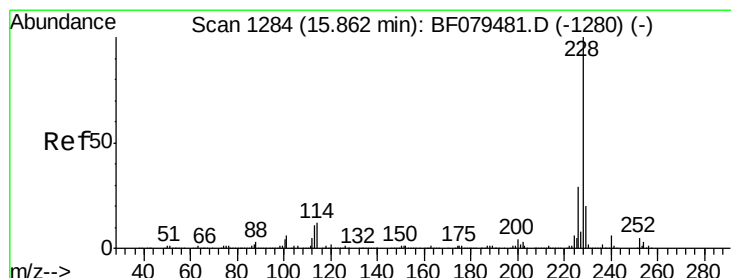
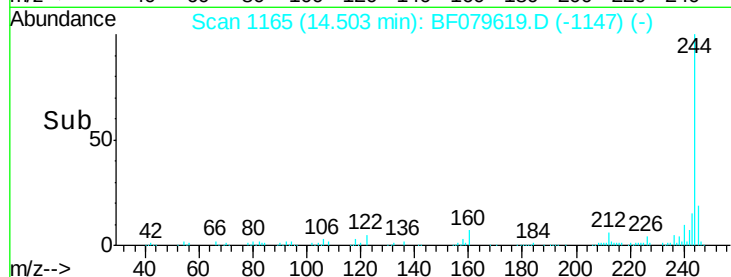
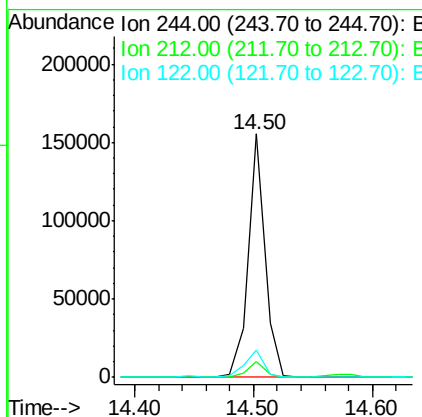
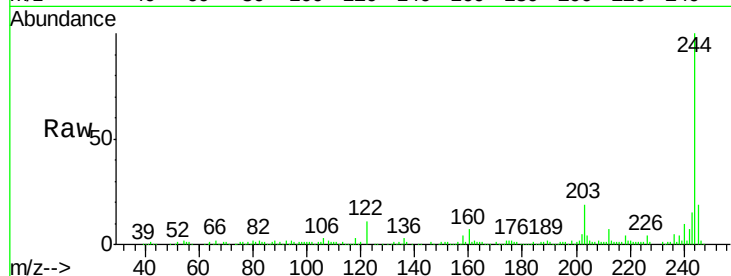
#78
 Terphenyl-d14
 Concen: 14.64 ng
 RT: 14.50 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Instrument :
 BNA_F
 ClientSampleId :
 RAMPTP-440SB2.1(4)

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.7	5.2	7.8
122	11.1	8.0	12.0

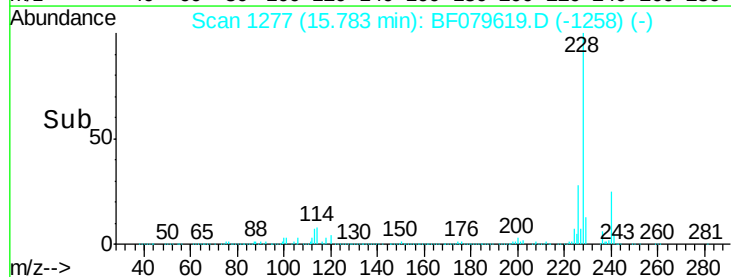
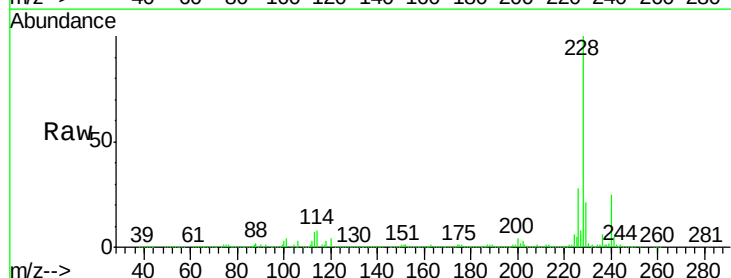
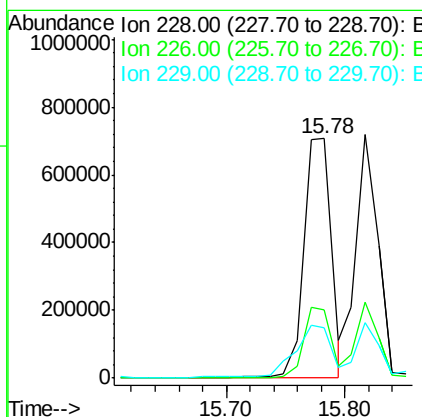
Manual Integrations
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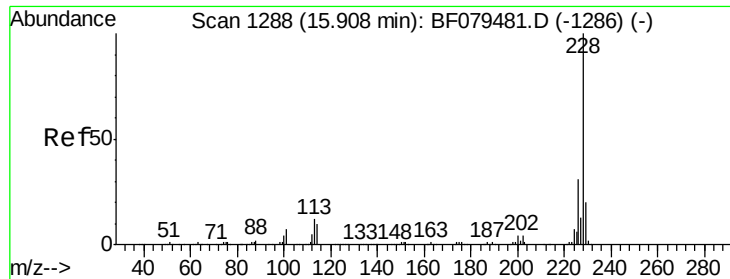
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#80
 Benzo(a)anthracene
 Concen: 79.85 ng
 RT: 15.78 min Scan# 1277
 Delta R.T. 0.01 min
 Lab File: BF079619.D
 Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	28.4	22.8	34.2
229	21.0	15.9	23.9





#82

Chrysene

Concen: 68.01 ng

RT: 15.82 min Scan# 1280

Delta R.T. 0.00 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Instrument :

BNA_F

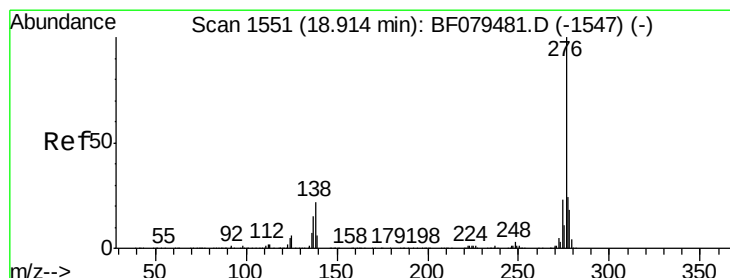
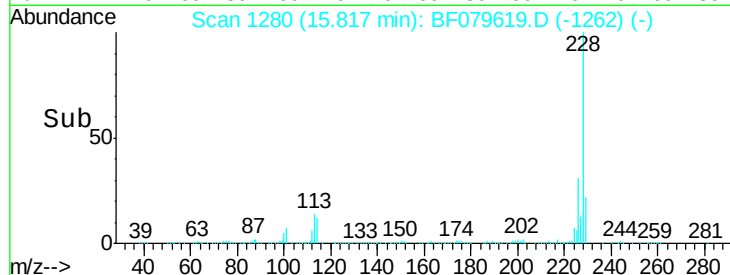
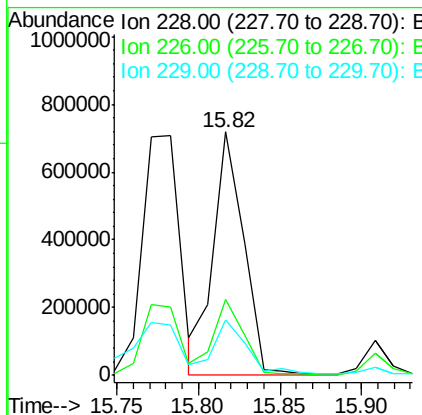
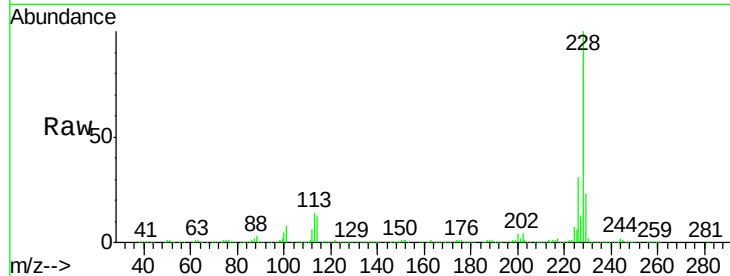
ClientSampleId :

RAMP-TP-440SB2.1(4)

Tgt Ion:	228	Resp:	918830
Ion Ratio	Lower	Upper	
228	100		
226	31.2	25.0	37.4
229	22.9	15.9	23.9

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 24.12 ng

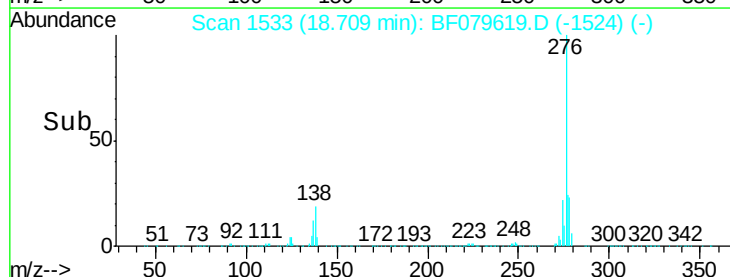
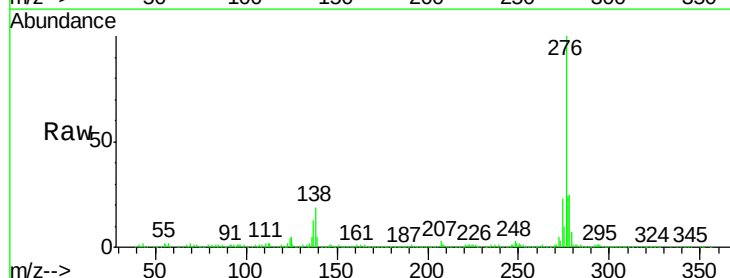
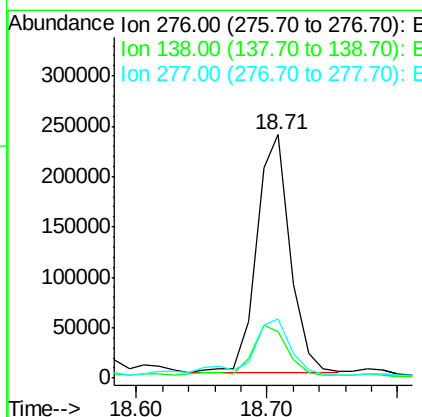
RT: 18.71 min Scan# 1533

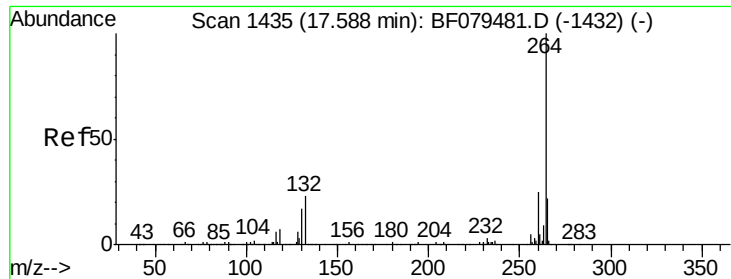
Delta R.T. -0.10 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Tgt Ion:	276	Resp:	419099
Ion Ratio	Lower	Upper	
276	100		
138	22.6	21.4	32.2
277	27.2	19.8	29.6





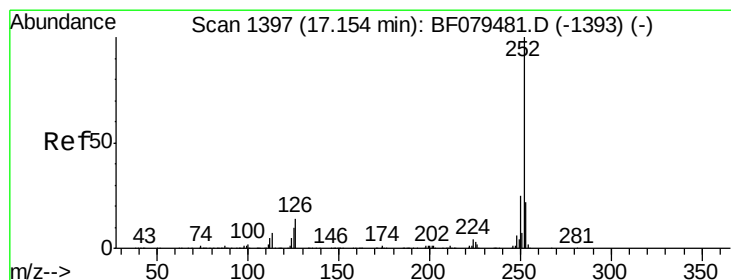
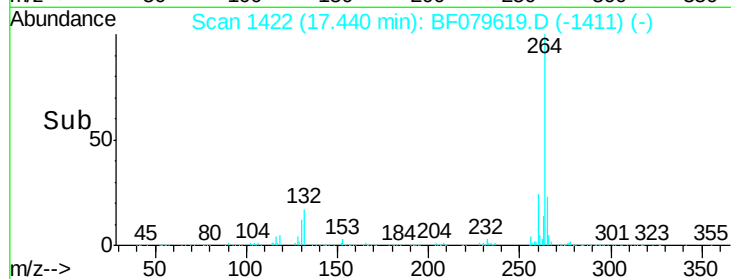
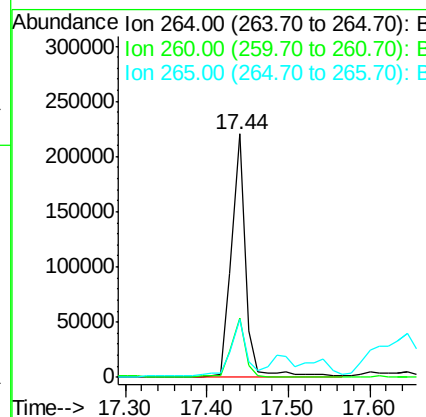
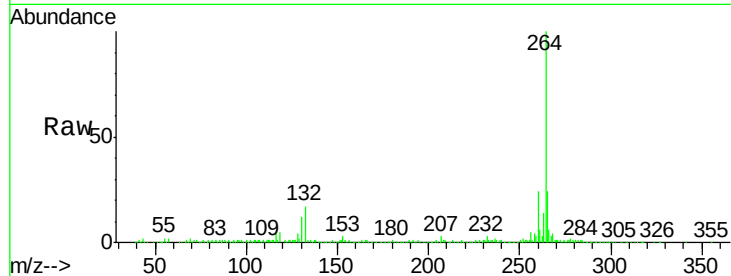
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.44 min Scan# 1422
Delta R.T. -0.08 min
Lab File: BF079619.D
Acq: 30 May 2015 23:04

Instrument :
BNA_F
ClientSampleId :
RAMPTP-440SB2.1(4)

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.4	19.8	29.8
265	23.8	17.8	26.6

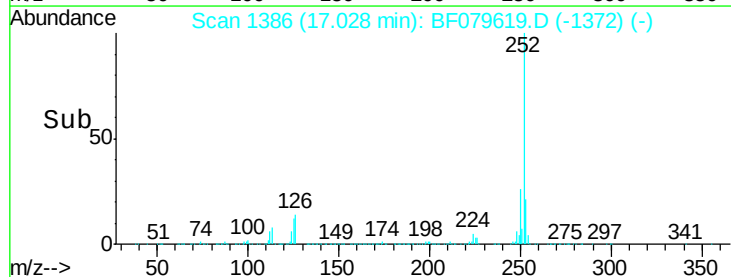
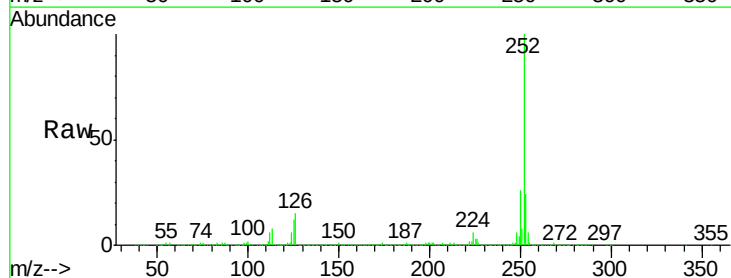
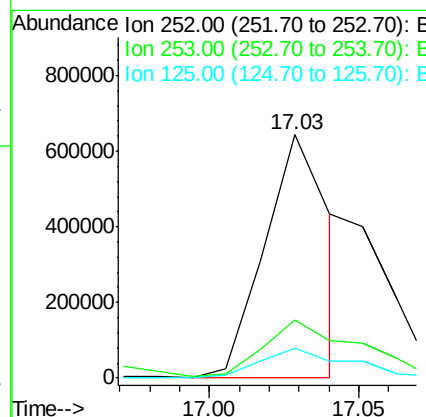
Manual Integrations
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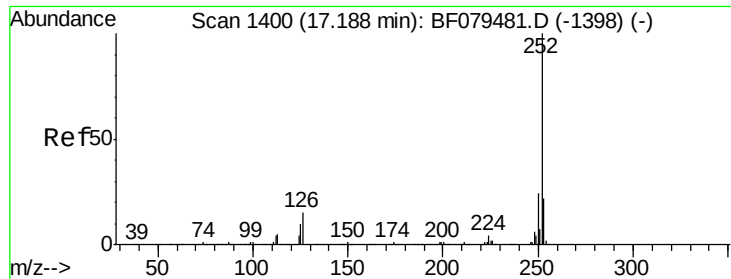
apatel
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#87
Benzo(b)fluoranthene
Concen: 63.78 ng m
RT: 17.03 min Scan# 1386
Delta R.T. -0.05 min
Lab File: BF079619.D
Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.8	17.6	26.4
125	12.1	7.8	11.6#





#88

Benzo(k)fluoranthene

Concen: 32.01 ng m

RT: 17.04 min Scan# 1387

Delta R.T. -0.07 min

Lab File: BF079619.D

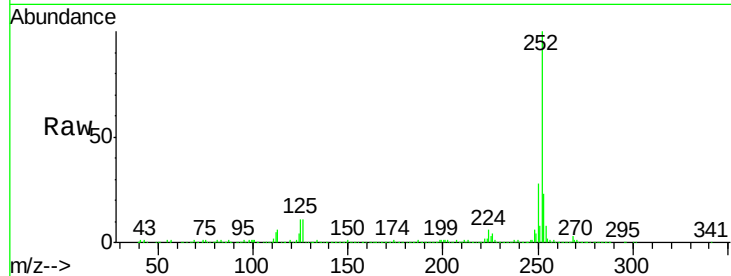
Acq: 30 May 2015 23:04

Instrument :

BNA_F

ClientSampleId :

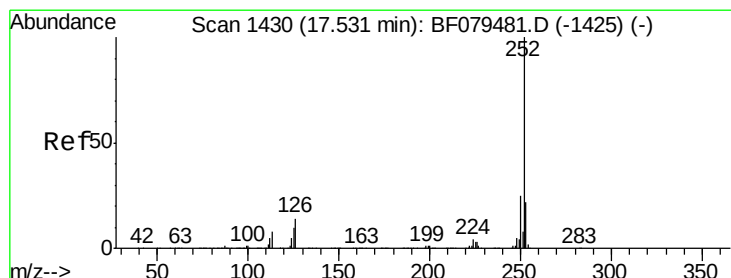
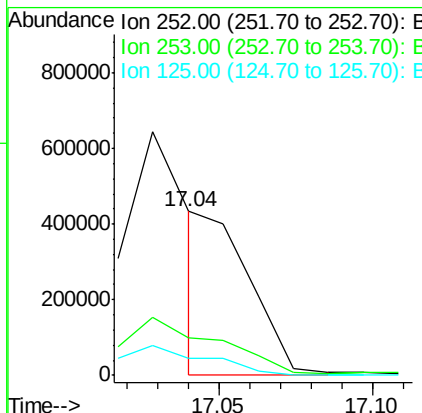
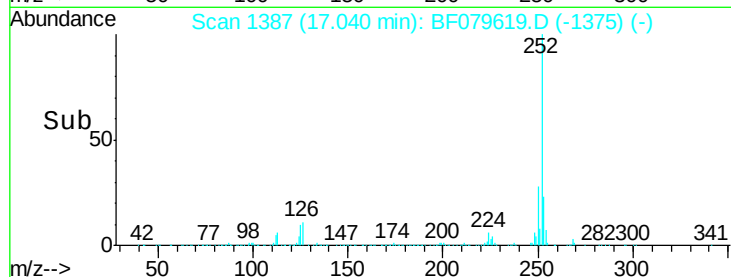
RAMPTP-440SB2.1(4)



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.2	25.8
125	10.5	6.8	10.2

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 55.84 ng

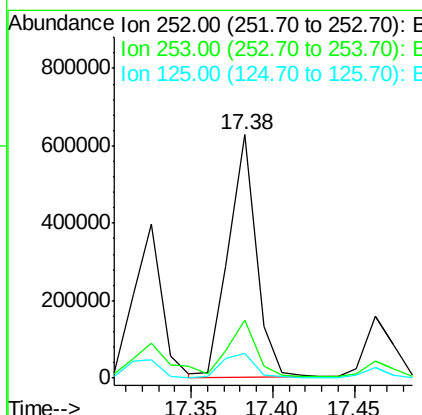
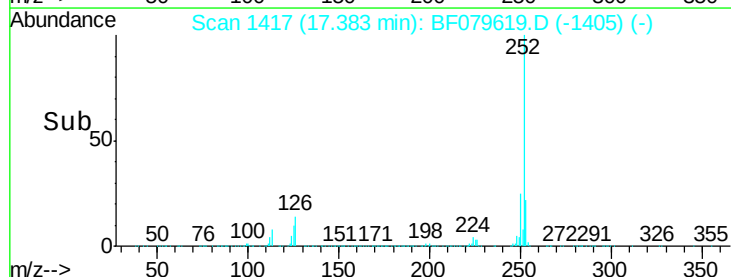
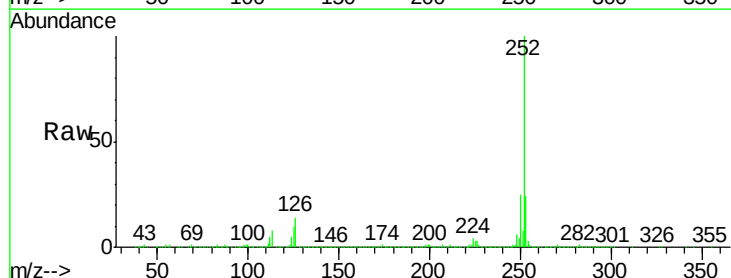
RT: 17.38 min Scan# 1417

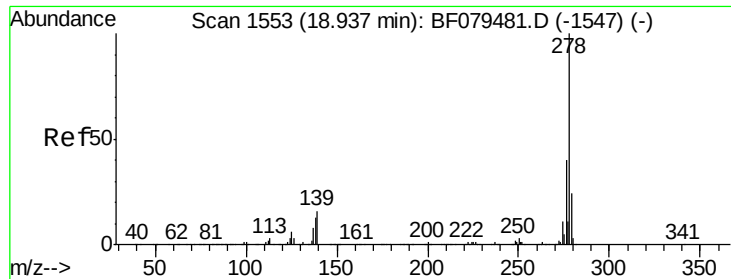
Delta R.T. -0.07 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	10.1	7.9	11.9





#90

Dibenzo(a,h)anthracene

Concen: 7.41 ng m

RT: 18.71 min Scan# 1533

Delta R.T. -0.13 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Instrument :

BNA_F

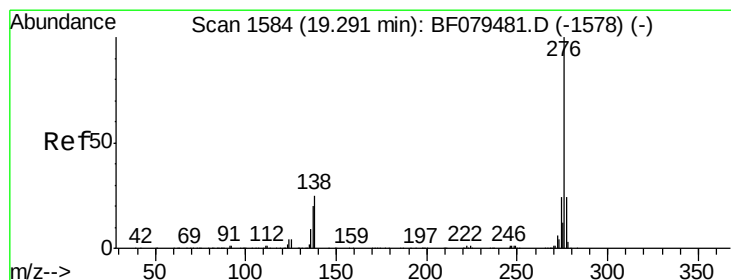
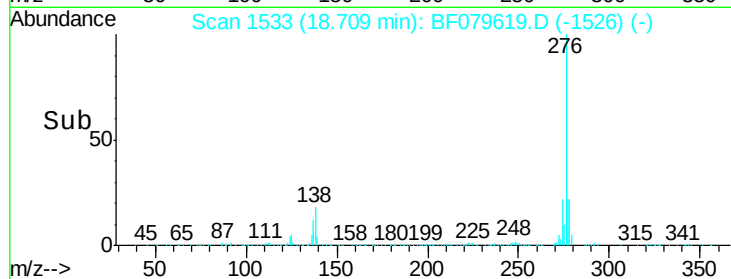
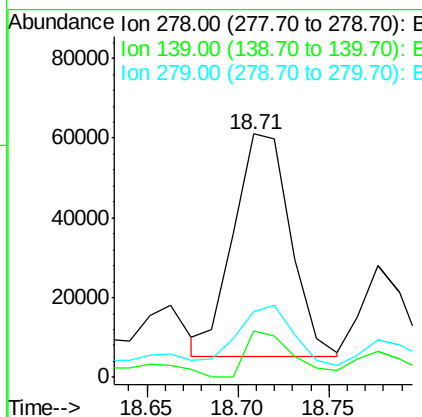
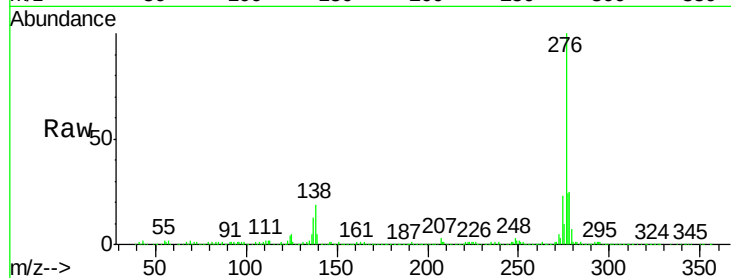
ClientSampleId :

RAMPTP-440SB2.1(4)

Tgt Ion:	278	Resp:	120926
Ion Ratio	Lower	Upper	
278	100		
139	19.1	12.8	19.2
279	27.1	19.1	28.7

Manual Integrations
APPROVED

apatel
6/1/2015 8:47:16 PM



#91

Benzo(g,h,i)perylene

Concen: 28.80 ng

RT: 19.07 min Scan# 1565

Delta R.T. -0.11 min

Lab File: BF079619.D

Acq: 30 May 2015 23:04

Tgt Ion:	276	Resp:	402312
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.1	28.7
138	22.0	20.1	30.1

