

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052715\
 Data File : BF079520.D
 Acq On : 27 May 2015 15:52
 Operator : TP/IZ
 Sample : G2289-09 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-29S

Manual Integrations
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Quant Time: May 27 16:46:10 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 27 01:32:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	69061	20.00	ng	-0.01
21) Naphthalene-d8	8.58	136	303675	20.00	ng	-0.01
38) Acenaphthene-d10	10.74	164	146313	20.00	ng	-0.02
63) Phenanthrene-d10	12.58	188	271081	20.00	ng	-0.01
75) Chrysene-d12	15.89	240	259993	20.00	ng	0.01
86) Perylene-d12	17.67	264	311896	20.00	ng	0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	83995m	21.10	ng	-0.02
7) Phenol-d6	6.59	99	116128	22.88	ng	-0.02
23) Nitrobenzene-d5	7.70	82	65993	12.56	ng	-0.01
41) 2,4,6-Tribromophenol	11.72	330	30080	18.72	ng	-0.02
44) 2-Fluorobiphenyl	9.92	172	149953	14.62	ng	-0.02
78) Terphenyl-d14	14.58	244	171715	15.50	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.60	128	312686	21.46	ng	99
37) 2-Methylnaphthalene	9.46	142	80089	7.92	ng	97
45) 1,1'-Biphenyl	10.04	154	28206	2.47	ng	97
48) Acenaphthylene	10.57	152	237014	15.82	ng	99
51) Acenaphthene	10.79	154	176573	20.61	ng	99
54) Dibenzofuran	11.00	168	213365	16.89	ng	94
57) Fluorene	11.43	166	242494	23.29	ng	100
70) Phenanthrene	12.62	178	2430750	163.45	ng	95
71) Anthracene	12.67	178	903617	59.85	ng	98
72) Carbazole	12.89	167	305975	21.05	ng	99
74) Fluoranthene	14.10	202	3465321	217.29	ng	93
77) Pyrene	14.38	202	3330898	206.79	ng	# 93
80) Benzo(a)anthracene	15.87	228	1999606m	133.69	ng	
82) Chrysene	15.92	228	1793590m	126.17	ng	
85) Indeno(1,2,3-cd)pyrene	19.01	276	1322026	72.30	ng	95
87) Benzo(b)fluoranthene	17.21	252	2668490m	150.01	ng	
88) Benzo(k)fluoranthene	17.25	252	552505m	34.73	ng	
89) Benzo(a)pyrene	17.60	252	1887453	124.40	ng	# 93
90) Dibenzo(a,h)anthracene	19.02	278	360935m	21.32	ng	
91) Benzo(g,h,i)perylene	19.39	276	1251786	73.97	ng	98

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

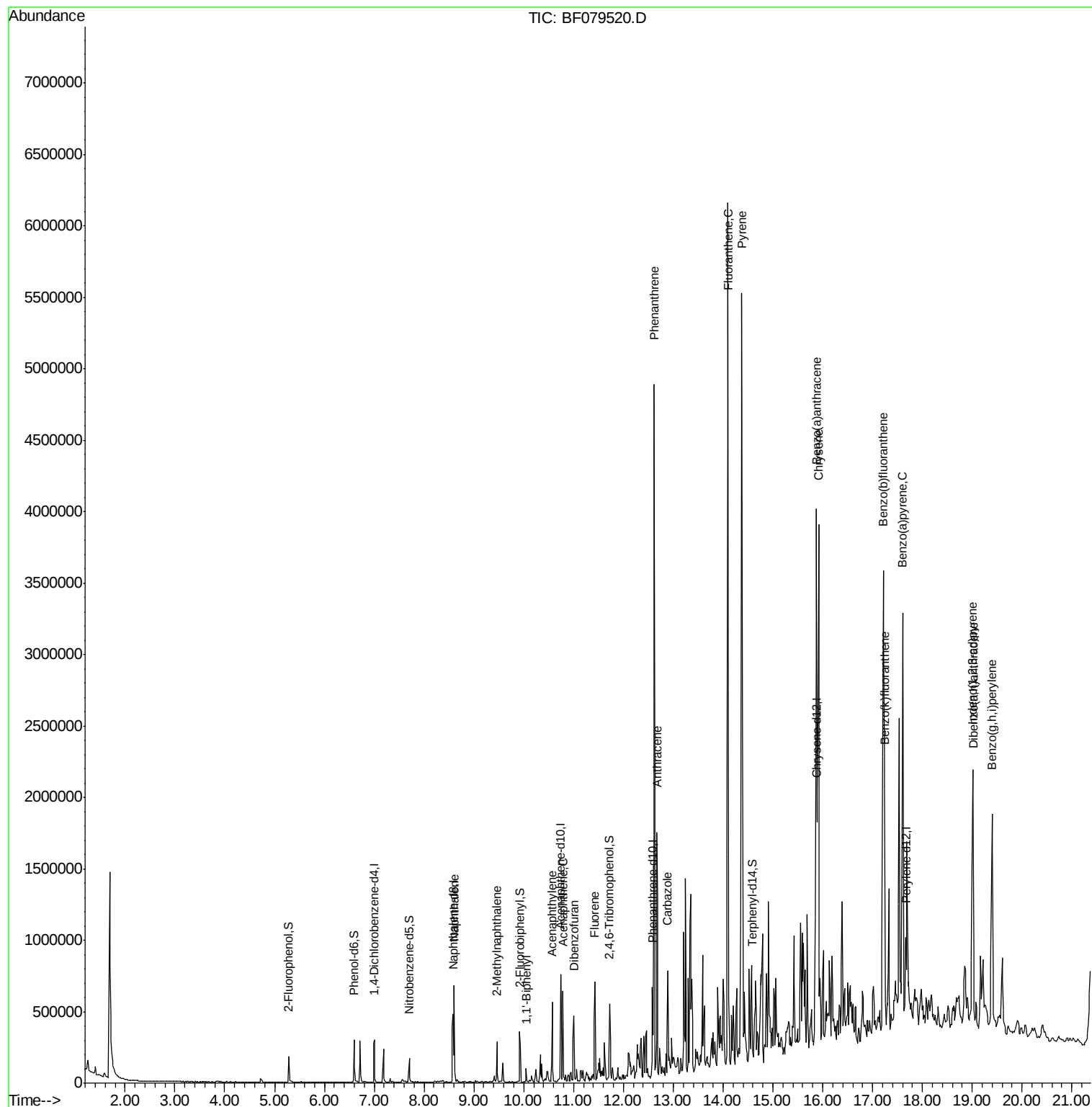
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052715\
Data File : BF079520.D
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Sample : G2289-09 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

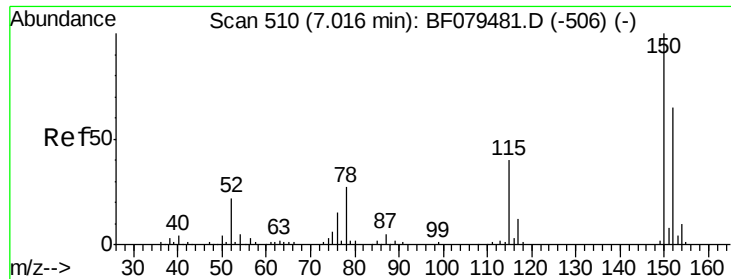
Instrument :
BNA_F
ClientSampled :
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Quant Time: May 27 16:46:10 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

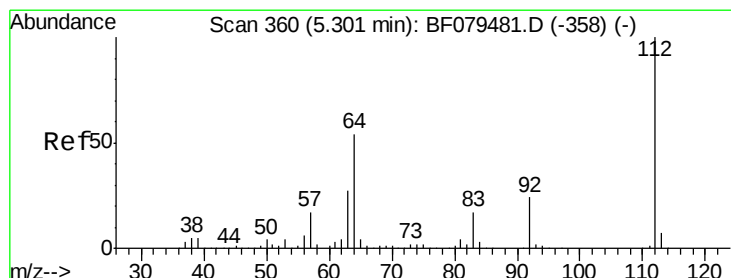
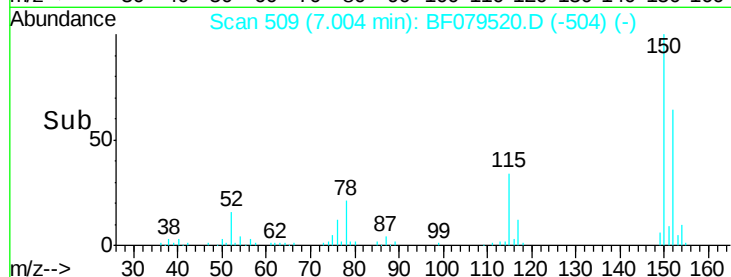
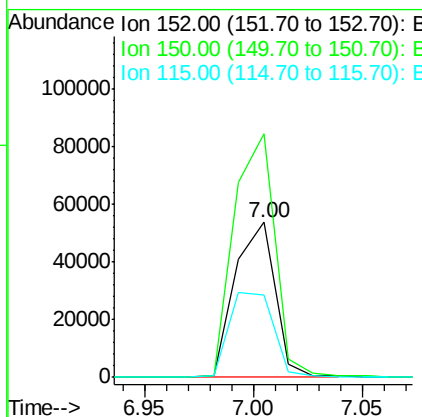
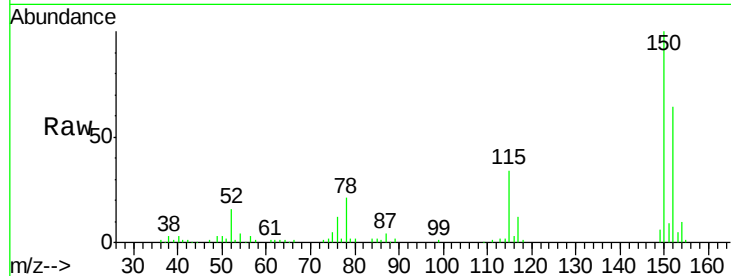
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.00 min Scan# 509
Delta R.T. -0.01 min
Lab File: BF079520.D
Acq: 27 May 2015 15:52

Instrument :
BNA_F
ClientSampleId :
SB-29S

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.0	124.0	186.0
115	52.9	49.6	74.4

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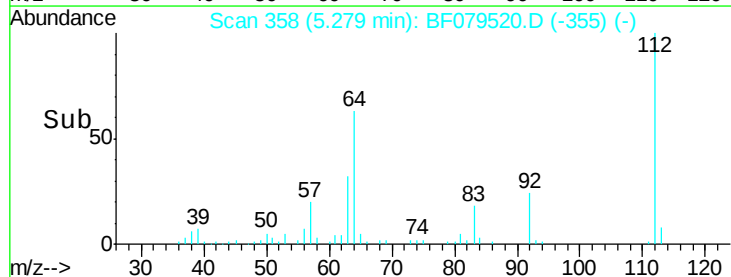
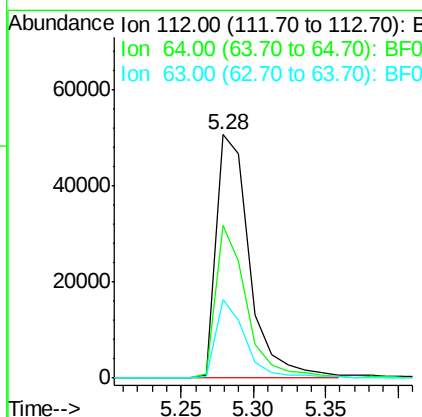
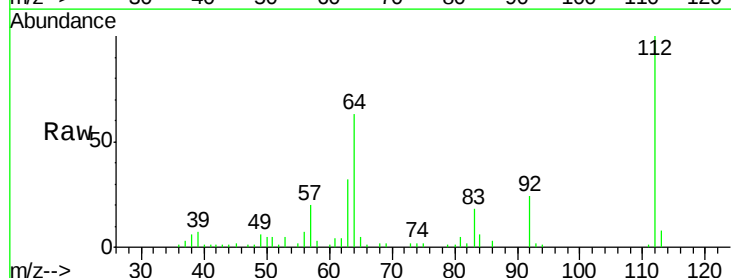
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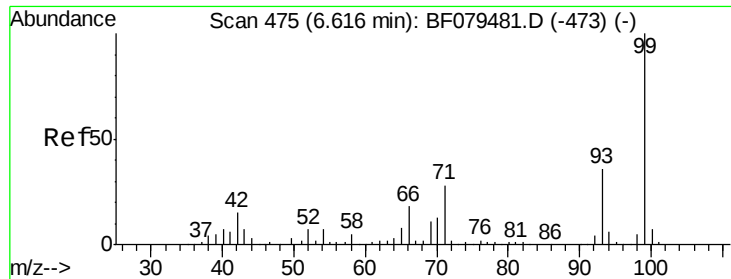


#5

2-Fluorophenol
Concen: 21.10 ng m
RT: 5.28 min Scan# 358
Delta R.T. -0.02 min
Lab File: BF079520.D
Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.5	43.5	65.3
63	32.0	21.8	32.8





#7

Phenol-d6

Concen: 22.88 ng

RT: 6.59 min Scan# 473

Delta R.T. -0.02 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Instrument :

BNA_F

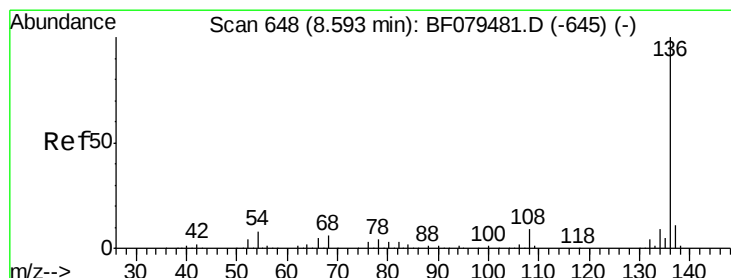
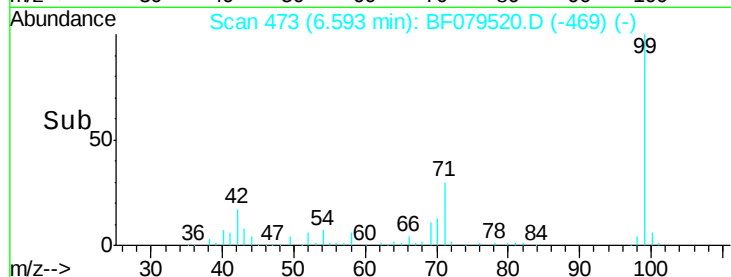
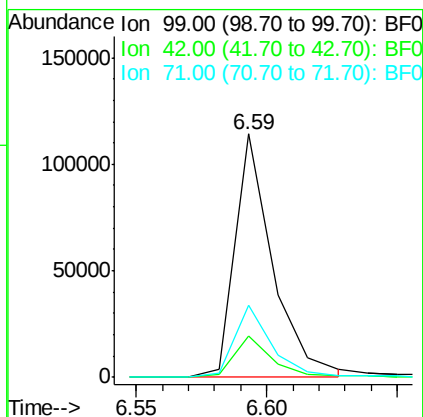
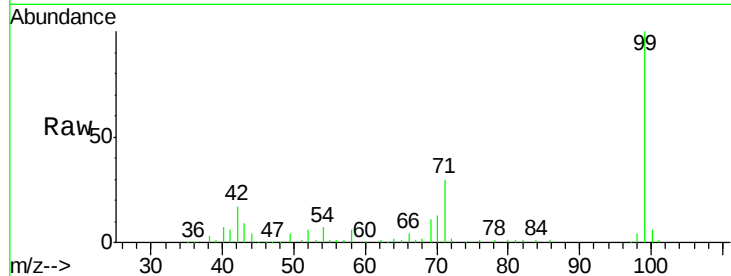
ClientSampleId :

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Tgt Ion:	99	Resp:	116128
Ion Ratio	Lower	Upper	
99	100		
42	17.1	11.9	17.9
71	29.7	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

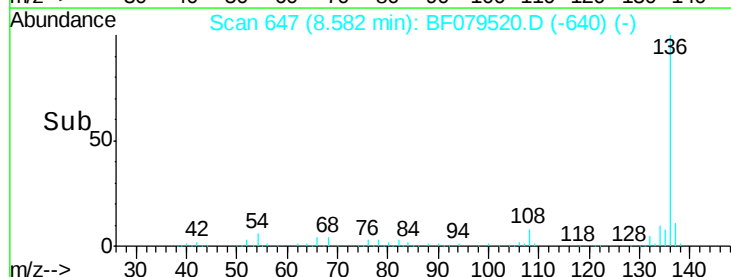
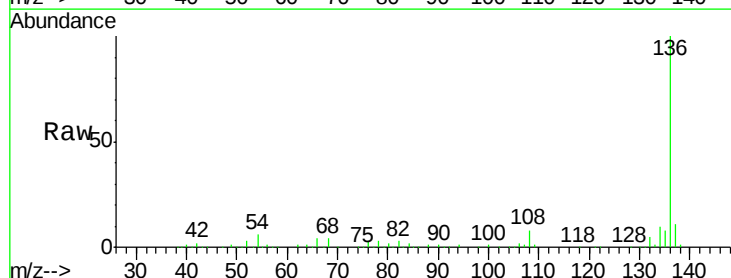
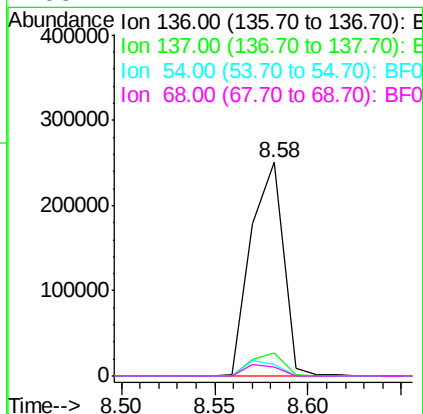
RT: 8.58 min Scan# 647

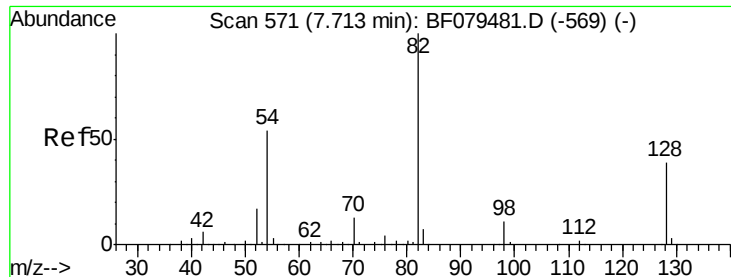
Delta R.T. -0.01 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Tgt Ion:	136	Resp:	303675
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.5	12.7
54	5.6	6.6	9.8#
68	4.4	4.7	7.1#





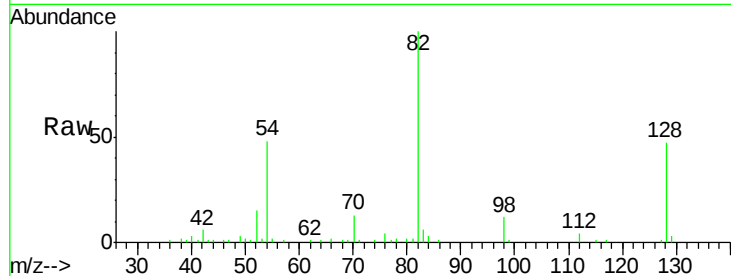
#23
 Nitrobenzene-d5
 Concen: 12.56 ng
 RT: 7.70 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Instrument :
 BNA_F
 ClientSampled :
 SB-29S

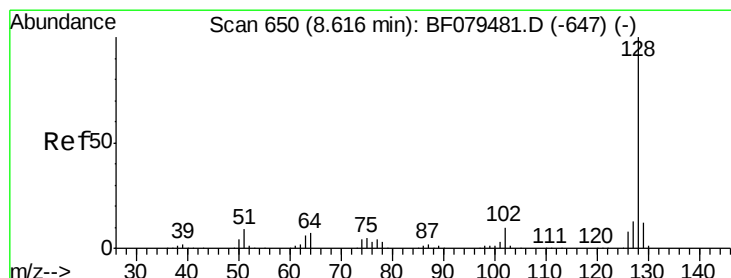
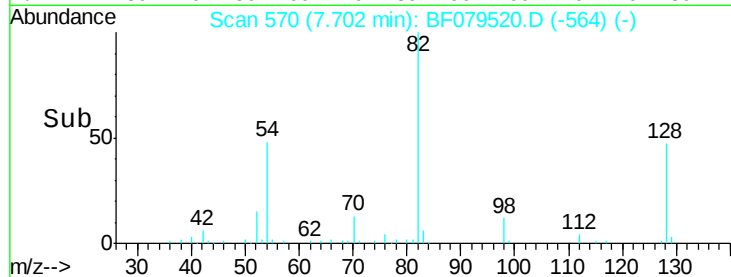
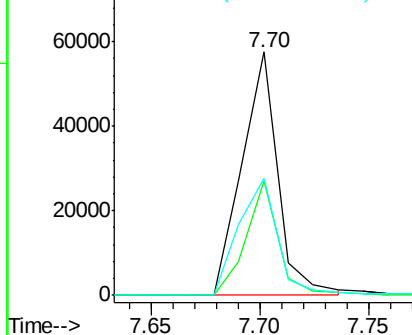
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	65993		
128	47.2	30.8	46.2#	
54	47.9	42.8	64.2	

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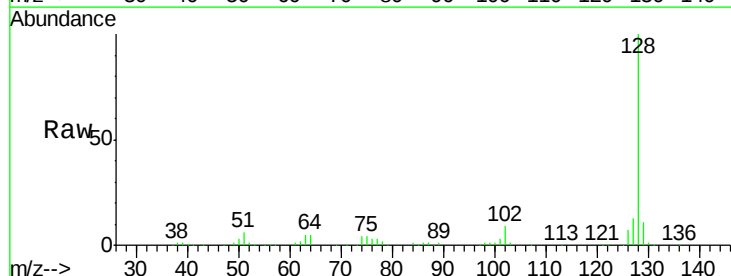


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

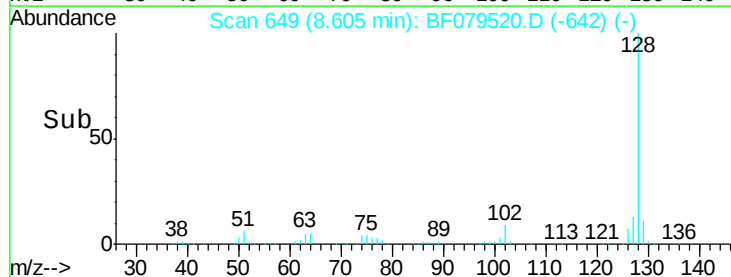
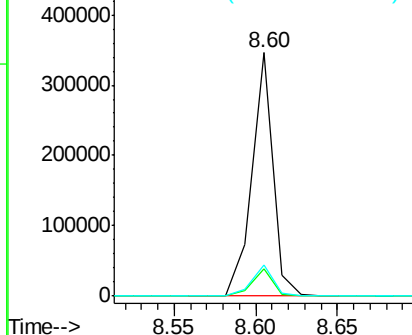


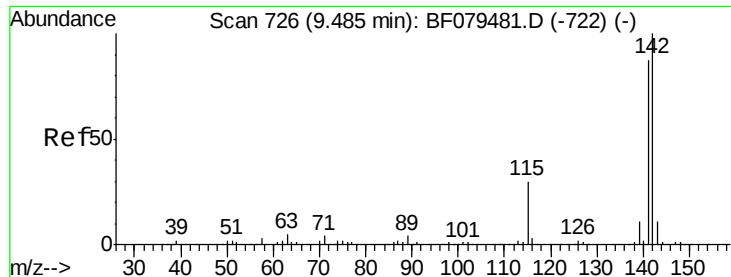
#31
 Naphthalene
 Concen: 21.46 ng
 RT: 8.60 min Scan# 649
 Delta R.T. -0.01 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	312686		
129	11.0	9.3	13.9	
127	12.9	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





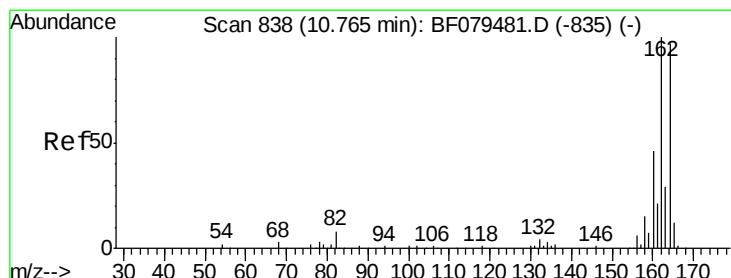
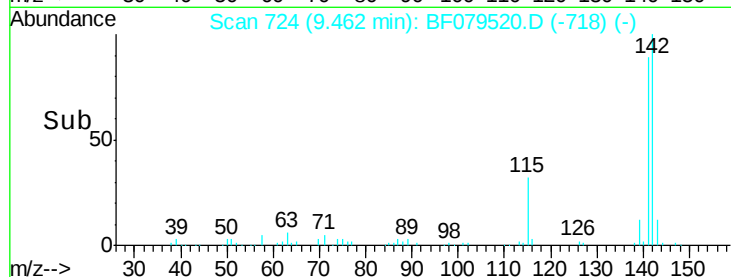
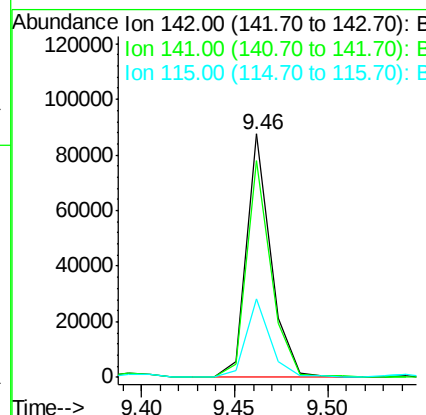
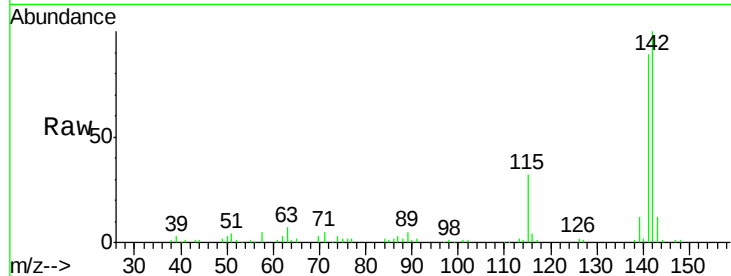
#37
 2-Methylnaphthalene
 Concen: 7.92 ng
 RT: 9.46 min Scan# 724
 Delta R.T. -0.02 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Instrument :
 BNA_F
 ClientSampleId :
 SB-29S

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.1	69.5	104.3
115	32.4	23.8	35.6

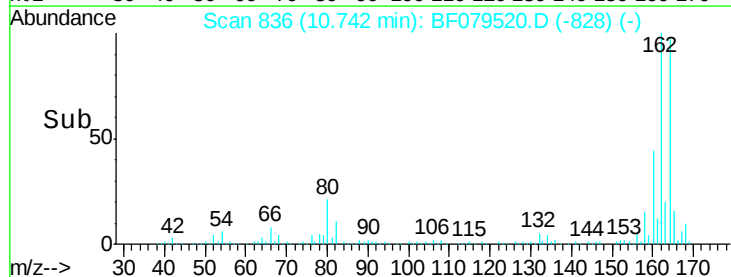
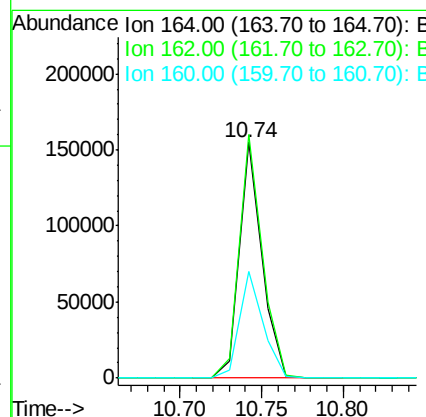
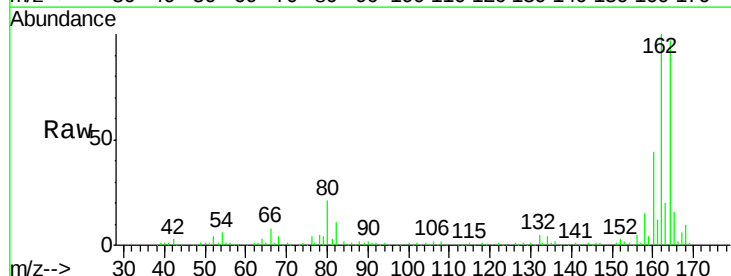
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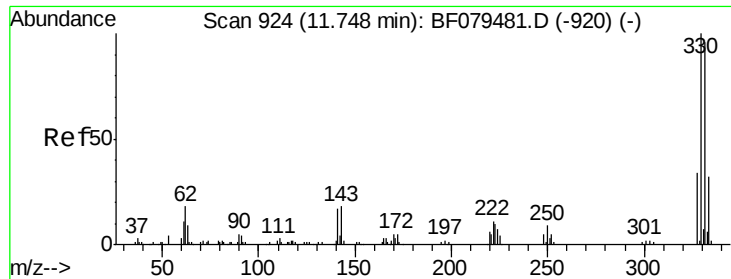
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.74 min Scan# 836
 Delta R.T. -0.02 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.6	124.0
160	45.1	37.7	56.5





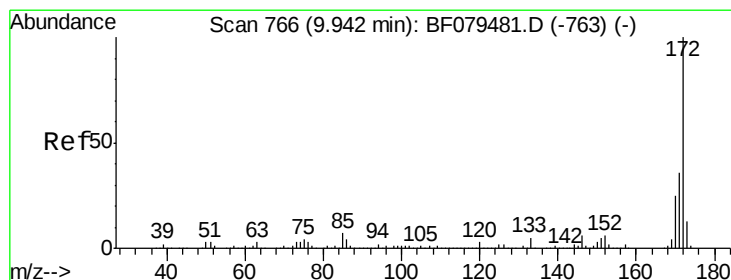
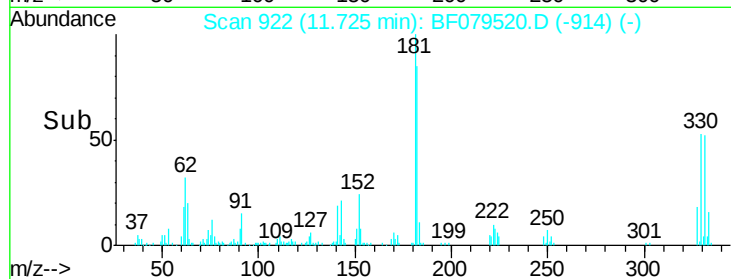
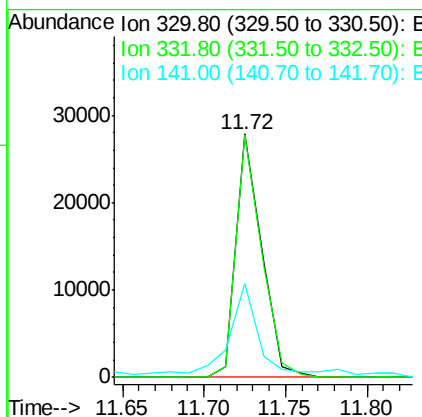
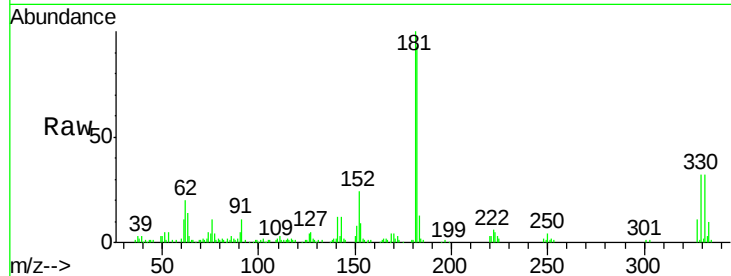
#41
 2,4,6-Tribromophenol
 Concen: 18.72 ng
 RT: 11.72 min Scan# 922
 Delta R.T. -0.02 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Instrument :
 BNA_F
 ClientSampled :
 SB-29S

Tgt Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	99.6	0.0	0.0#
141	41.2	0.0	0.0#

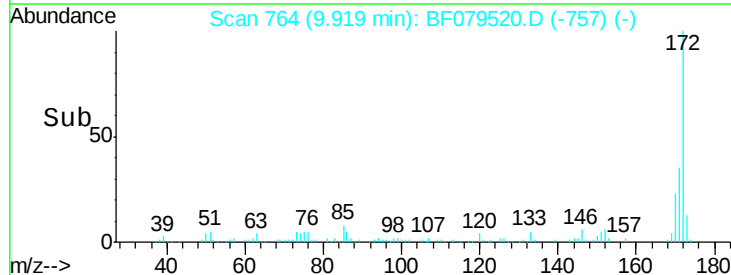
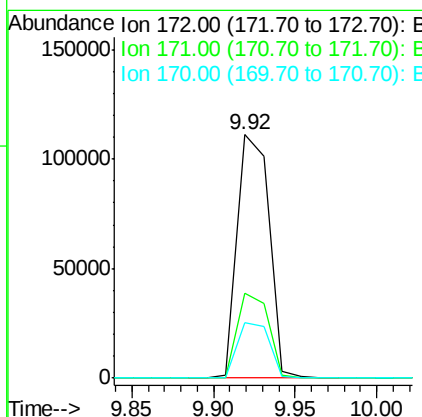
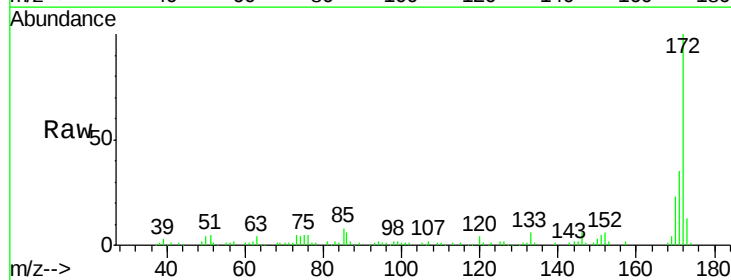
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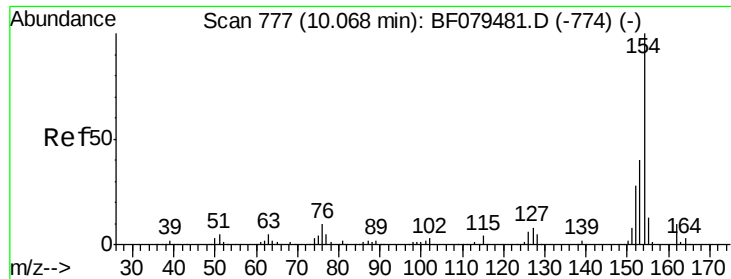
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#44
 2-Fluorobiphenyl
 Concen: 14.62 ng
 RT: 9.92 min Scan# 764
 Delta R.T. -0.02 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.0	28.5	42.7
170	22.9	19.7	29.5





#45

1,1'-Biphenyl

Concen: 2.47 ng

RT: 10.04 min Scan# 775

Delta R.T. -0.02 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Instrument :

BNA_F

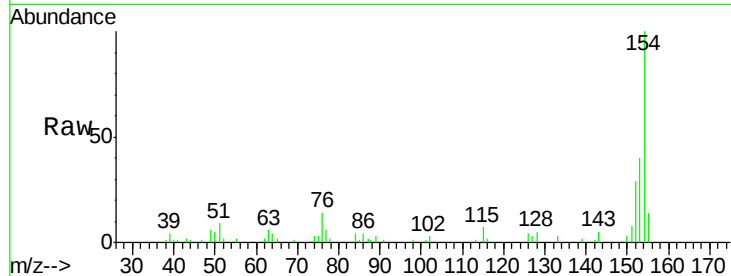
ClientSampleId :

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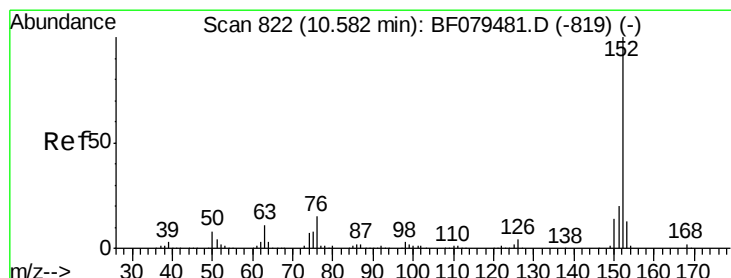
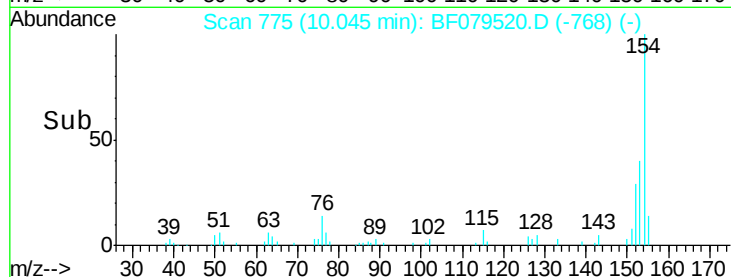
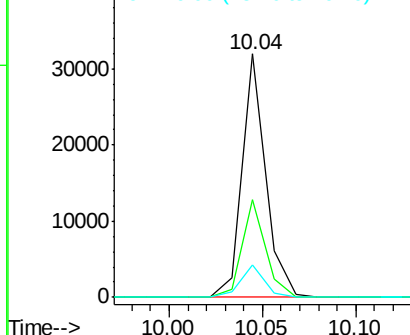
Tgt Ion:	154	Resp:	28206
Ion Ratio	Lower	Upper	
154	100		
153	39.9	19.5	59.5
76	13.5	0.0	29.6

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 15.82 ng

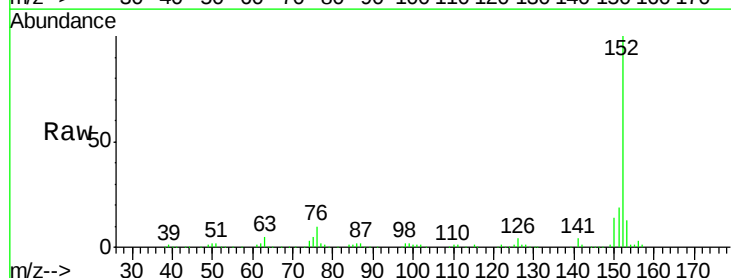
RT: 10.57 min Scan# 821

Delta R.T. -0.01 min

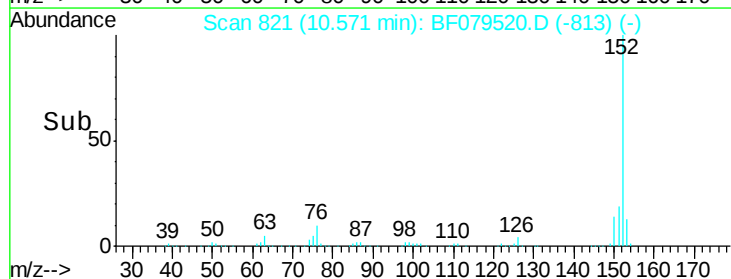
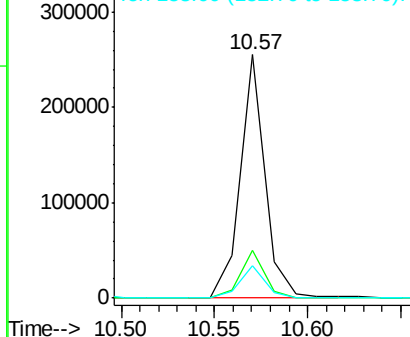
Lab File: BF079520.D

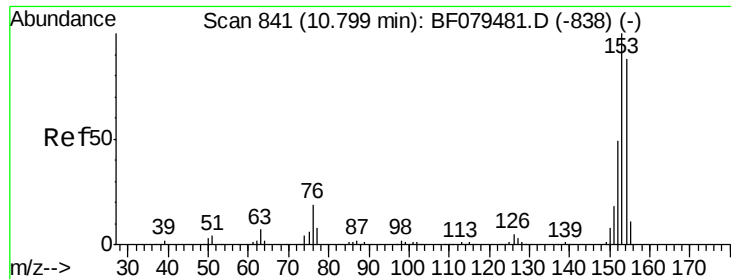
Acq: 27 May 2015 15:52

Tgt Ion:	152	Resp:	237014
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.8	23.8
153	13.4	10.7	16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 20.61 ng

RT: 10.79 min Scan# 840

Delta R.T. -0.01 min

Lab File: BF079520.D

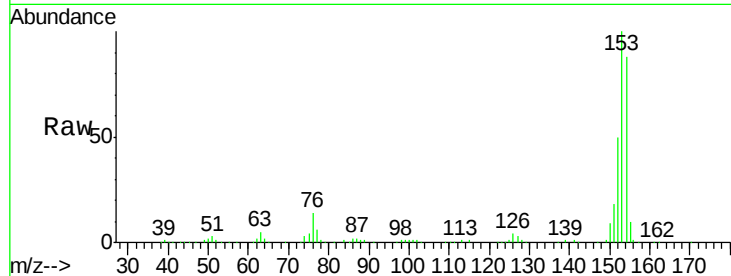
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Instrument :

BNA_F

ClientSampled :

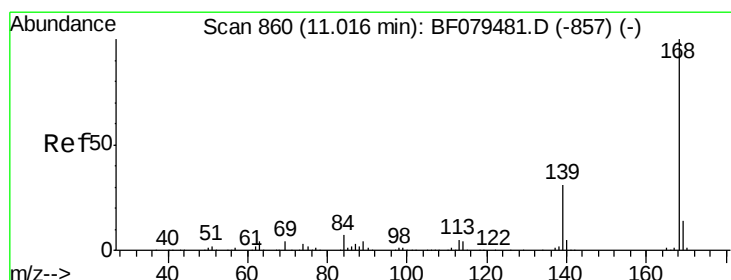
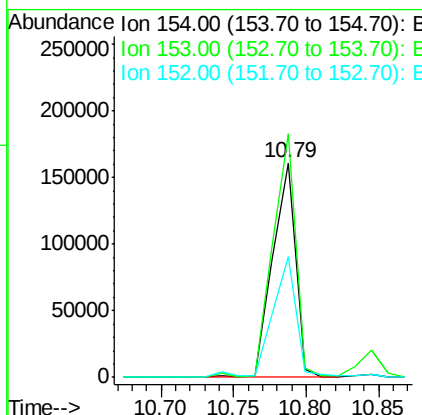
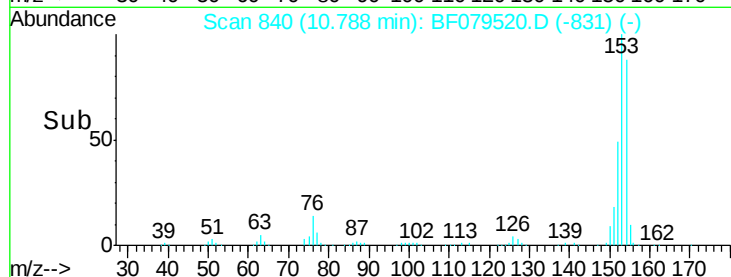
SB-29S



Tgt Ion:	154	Resp:	176573
Ion Ratio	Lower	Upper	
154	100		
153	113.4	91.1	136.7
152	56.4	44.6	66.8

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#54

Dibenzofuran

Concen: 16.89 ng

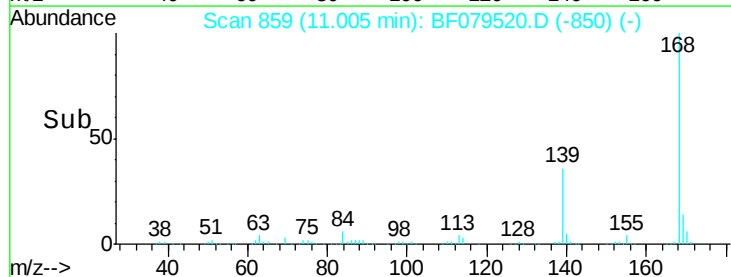
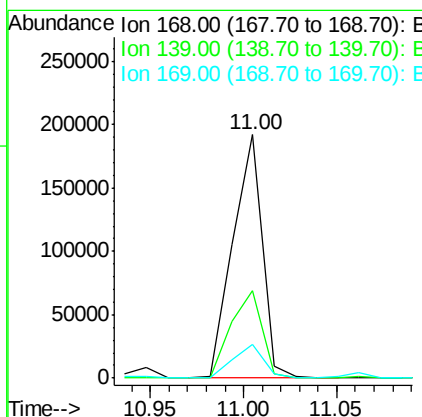
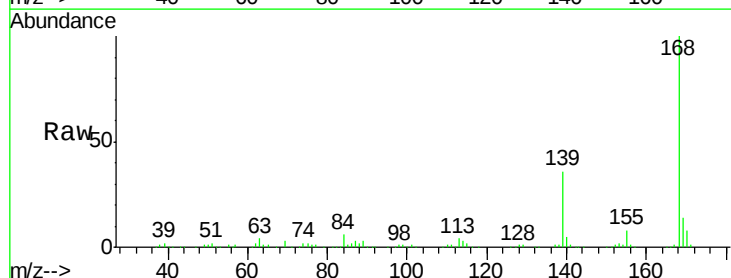
RT: 11.00 min Scan# 859

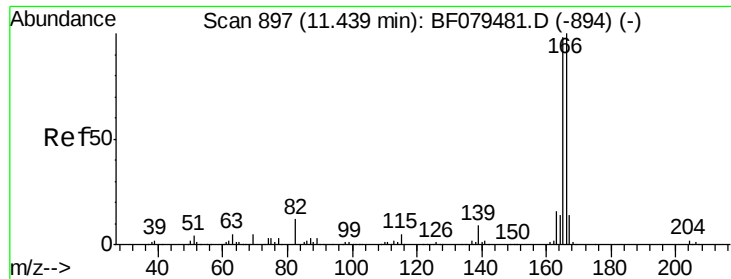
Delta R.T. -0.01 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Tgt Ion:	168	Resp:	213365
Ion Ratio	Lower	Upper	
168	100		
139	36.2	32.9	49.3
169	13.8	11.1	16.7





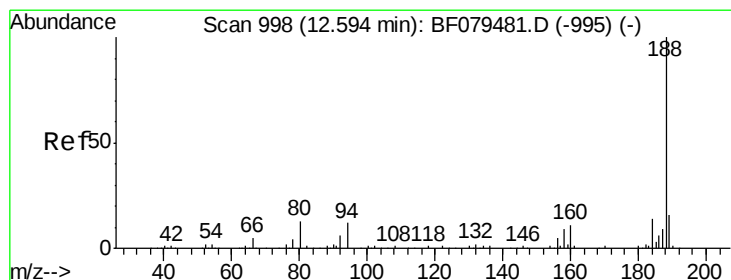
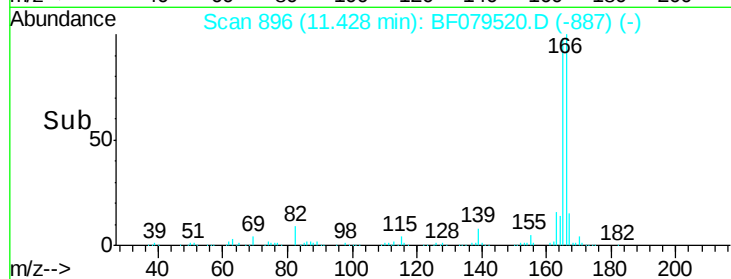
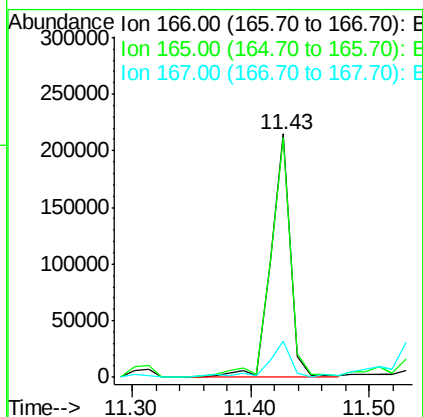
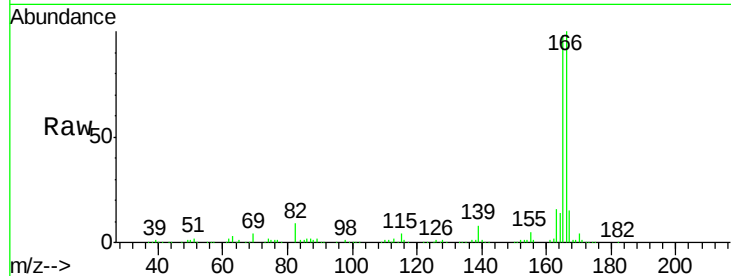
#57
Fluorene
 Concen: 23.29 ng
 RT: 11.43 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Instrument :
 BNA_F
 ClientSampleID :
 SB-29S

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	242494		
165	98.3	78.6	117.8	
167	14.7	10.8	16.2	

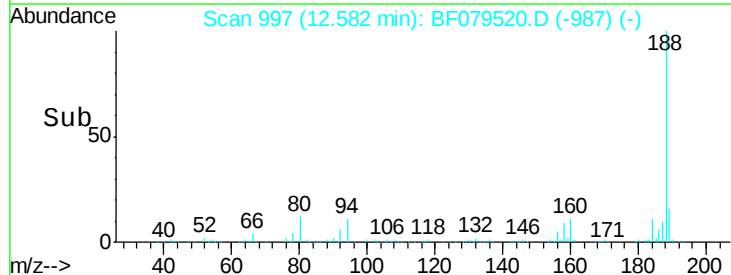
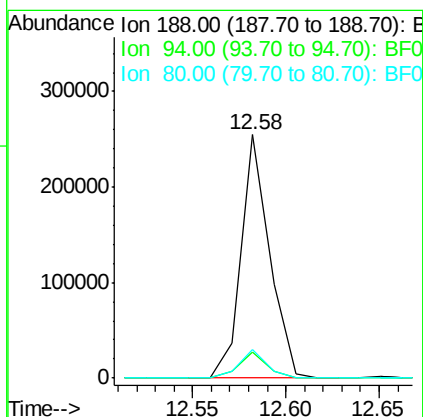
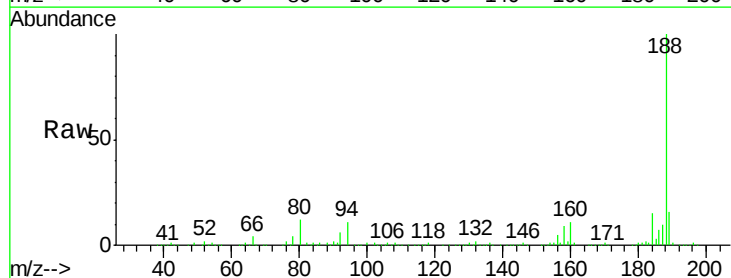
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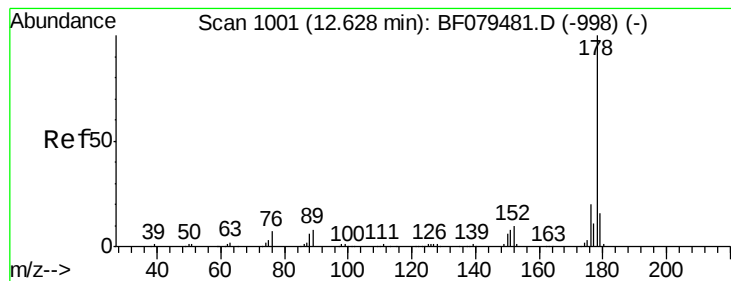
apatel
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.58 min Scan# 997
 Delta R.T. -0.01 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	271081		
94	10.8	9.8	14.6	
80	11.7	10.5	15.7	





#70

Phenanthrene

Concen: 163.45 ng

RT: 12.62 min Scan# 1000

Delta R.T. -0.01 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Instrument :

BNA_F

ClientSampleId :

SB-29S

Tgt Ion:178 Resp: 2430750

Ion Ratio Lower Upper

178 100

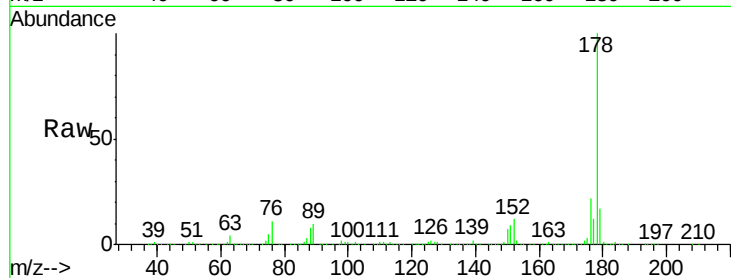
176 21.9 15.7 23.5

179 17.3 12.4 18.6

Manual Integrations
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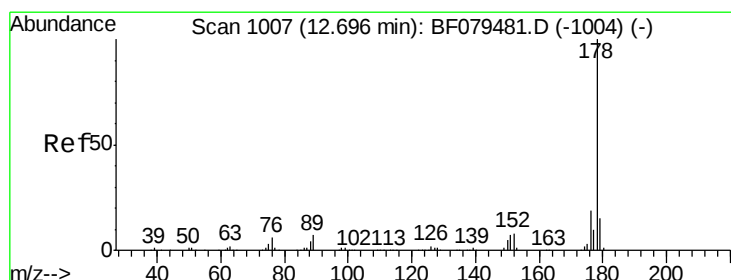
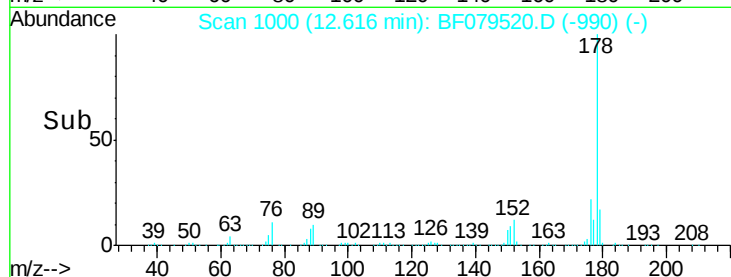
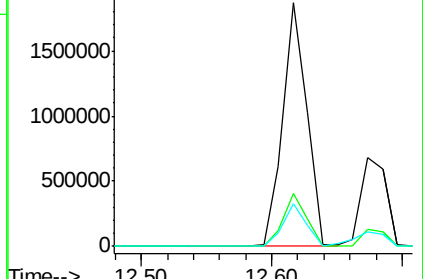
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 59.85 ng

RT: 12.67 min Scan# 1005

Delta R.T. -0.02 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

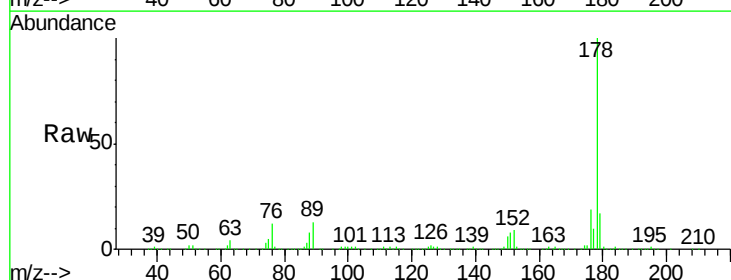
Tgt Ion:178 Resp: 903617

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

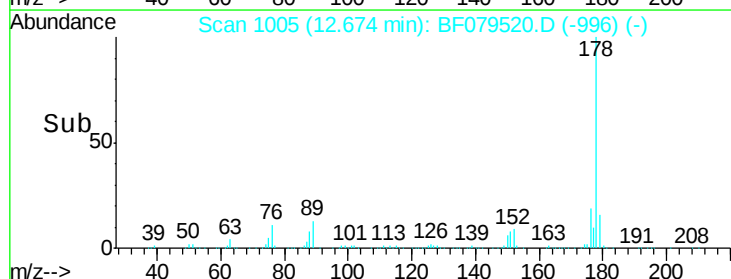
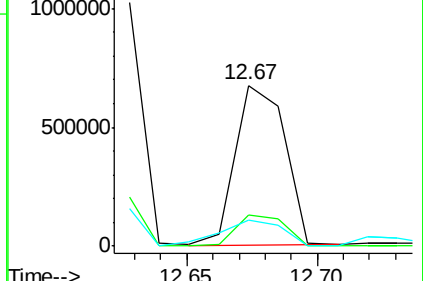
179 16.5 12.2 18.4

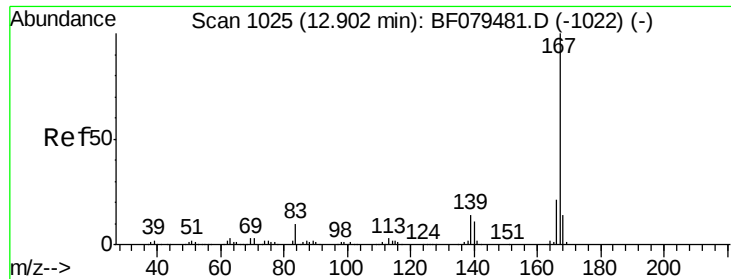


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





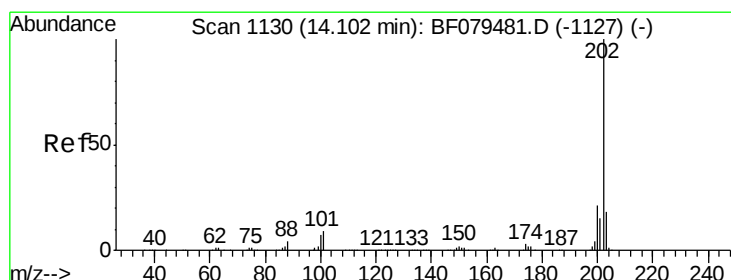
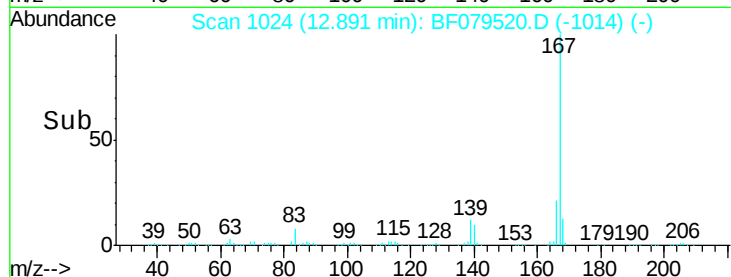
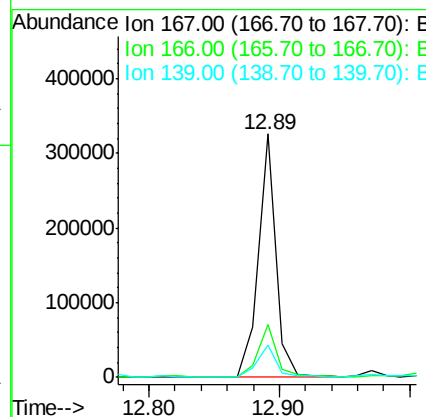
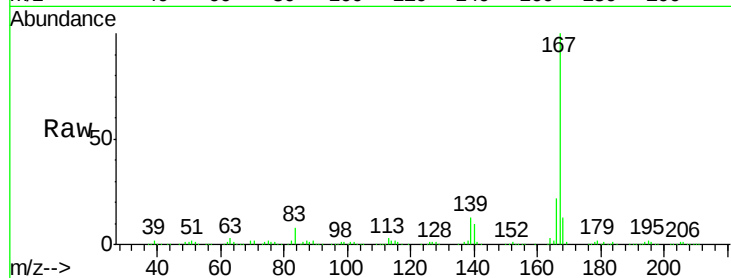
#72
 Carbazole
 Concen: 21.05 ng
 RT: 12.89 min Scan# 1024
 Delta R.T. -0.01 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Instrument :
 BNA_F
 ClientSampleId :
 SB-29S

Tgt Ion:	167	Resp:	305975
Ion Ratio		Lower	Upper
167	100		
166	21.5	17.0	25.4
139	13.1	11.2	16.8

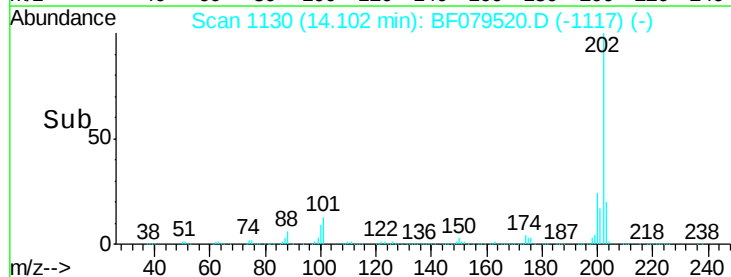
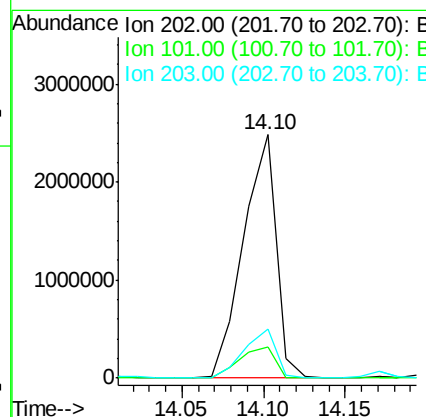
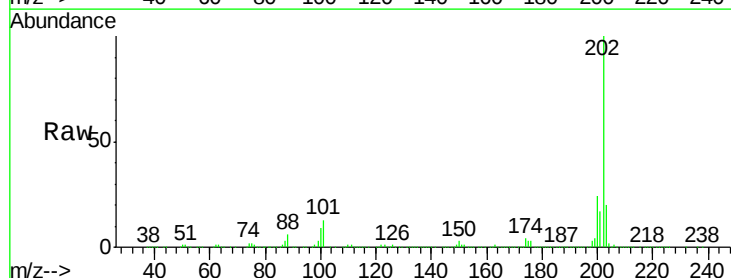
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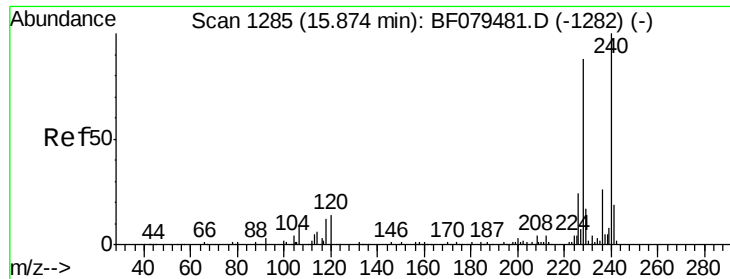
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#74
 Fluoranthene
 Concen: 217.29 ng
 RT: 14.10 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Tgt Ion:	202	Resp:	3465321
Ion Ratio		Lower	Upper
202	100		
101	12.8	0.0	29.3
203	20.1	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.89 min Scan# 1286

Delta R.T. 0.01 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Instrument :

BNA_F

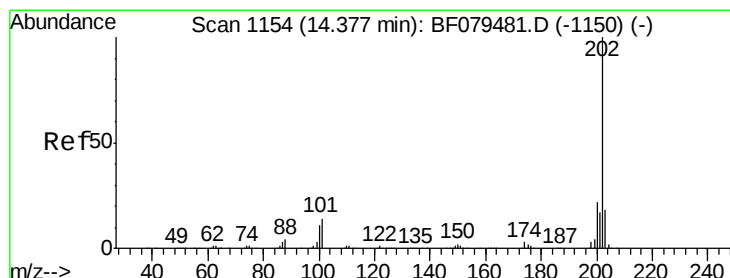
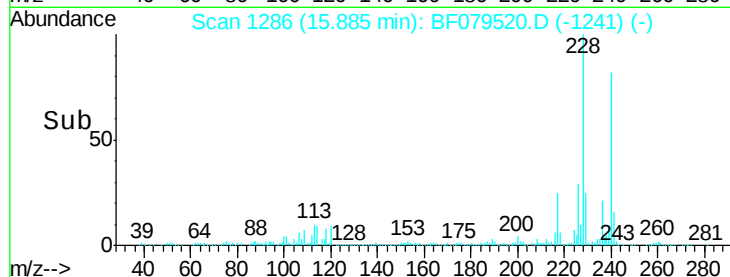
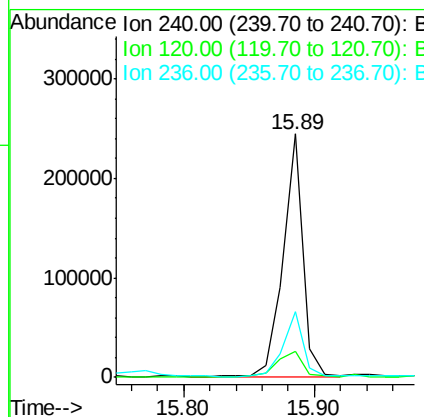
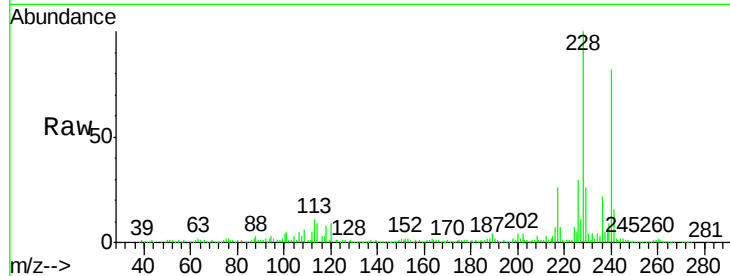
ClientSampleId :

SB-29S

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	259993		
120	10.6	10.8	16.2#	
236	26.8	21.0	31.6	

Manual Integrations
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#77

Pyrene

Concen: 206.79 ng

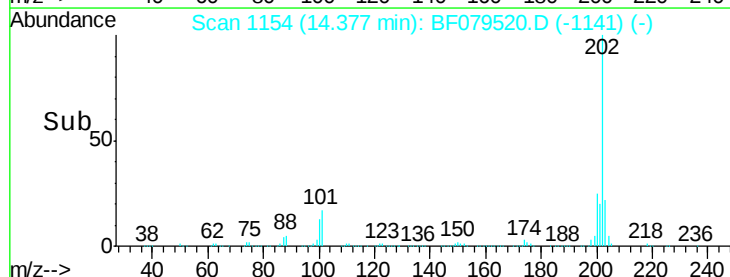
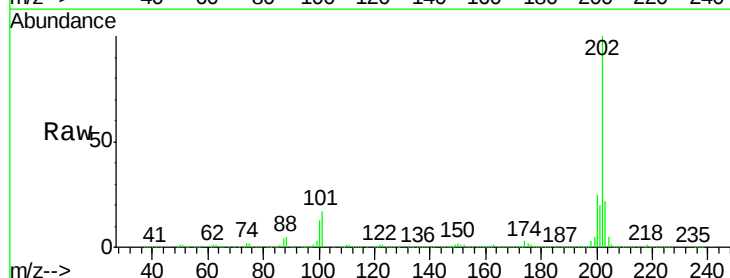
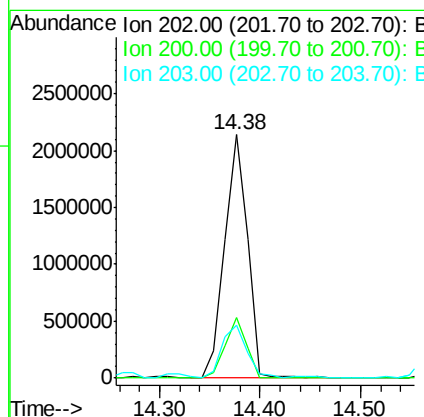
RT: 14.38 min Scan# 1154

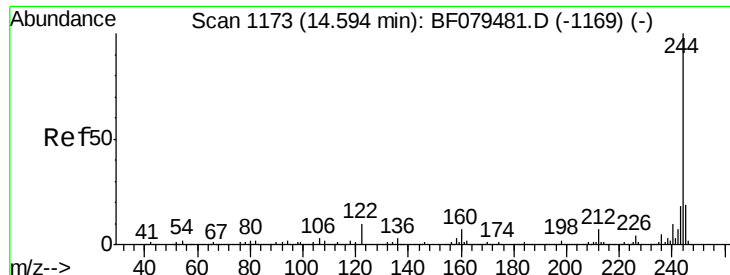
Delta R.T. 0.00 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	3330898		
200	24.7	17.5	26.3	
203	21.8	14.4	21.6#	





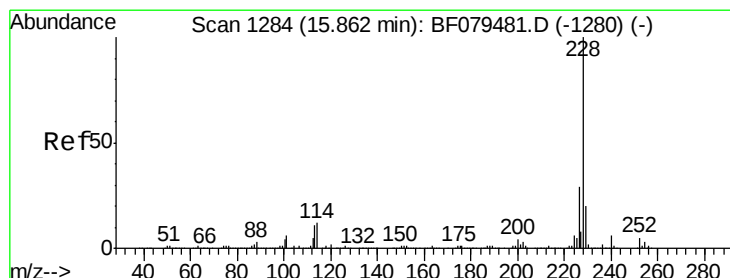
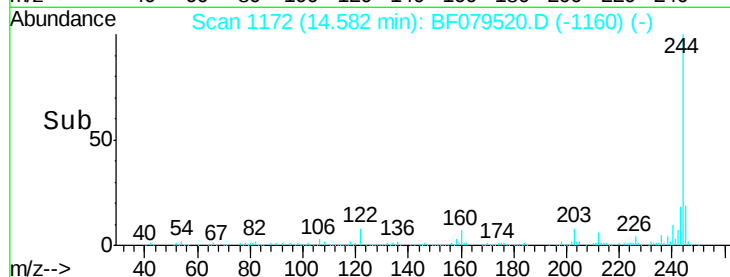
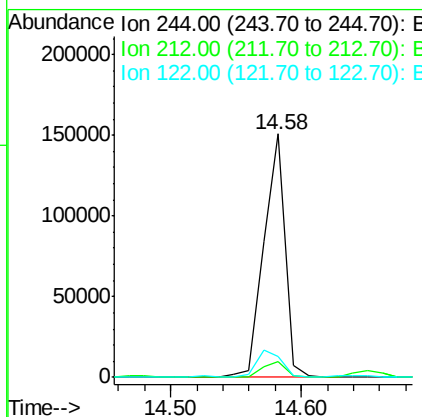
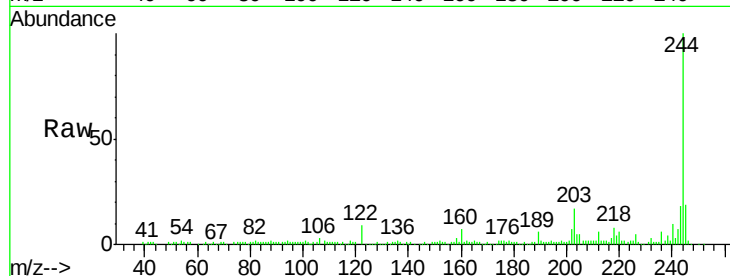
#78
 Terphenyl-d14
 Concen: 15.50 ng
 RT: 14.58 min Scan# 1172
 Delta R.T. -0.01 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Instrument :
 BNA_F
 ClientSampleId :
 SB-29S

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.4	5.2	7.8
122	8.6	8.0	12.0

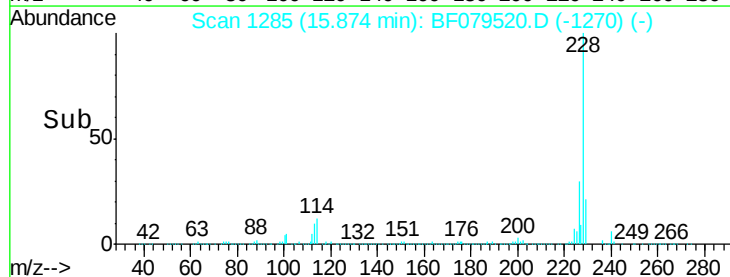
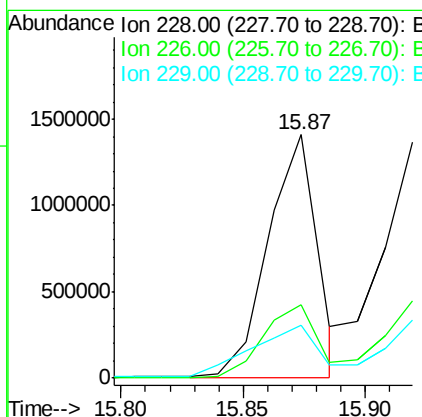
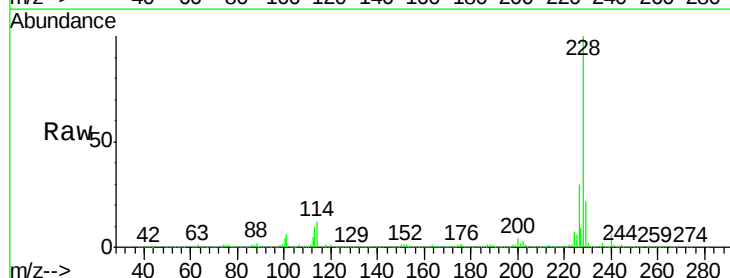
Manual Integrations
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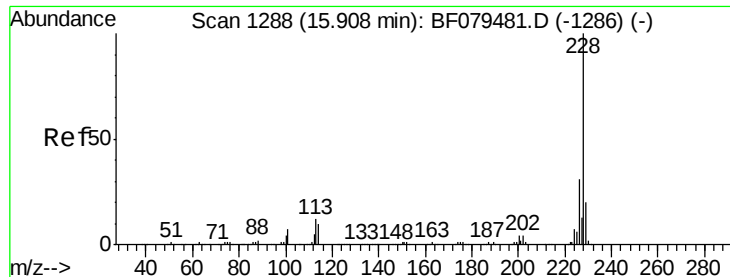
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#80
 Benzo(a)anthracene
 Concen: 133.69 ng m
 RT: 15.87 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: BF079520.D
 Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.3	22.8	34.2
229	21.7	15.9	23.9





#82

Chrysene

Concen: 126.17 ng m

RT: 15.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Instrument :

BNA_F

ClientSampleId :

SB-29S

Tgt Ion:228 Resp: 1793590

Ion Ratio Lower Upper

228 100

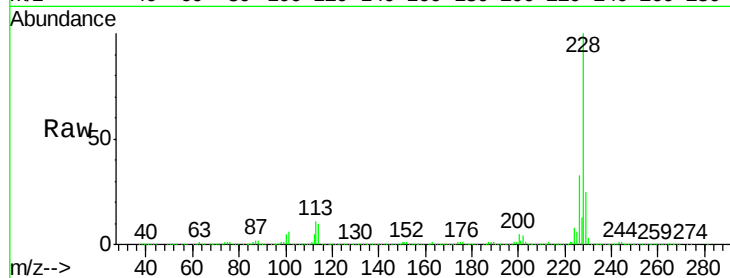
226 32.7 25.0 37.4

229 24.6 15.9 23.9#

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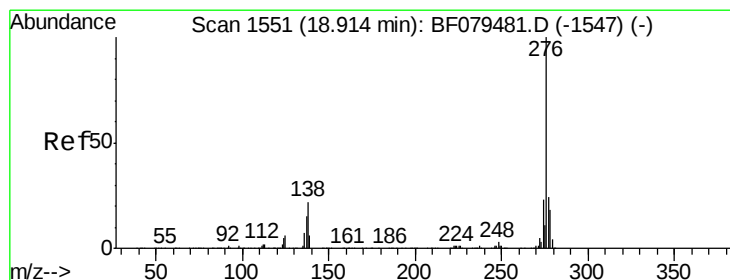
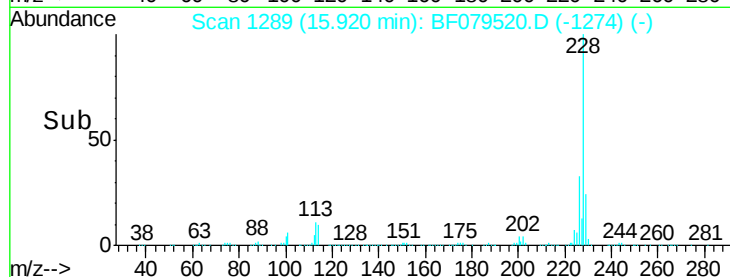
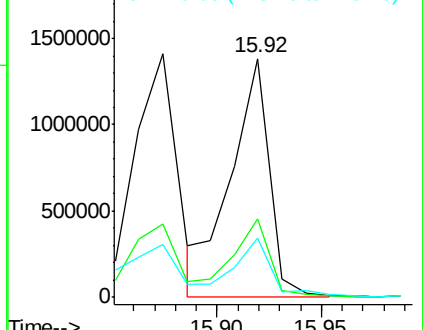
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Abundance Ion 228.00 (227.70 to 228.70): E

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: 72.30 ng

RT: 19.01 min Scan# 1559

Delta R.T. 0.09 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

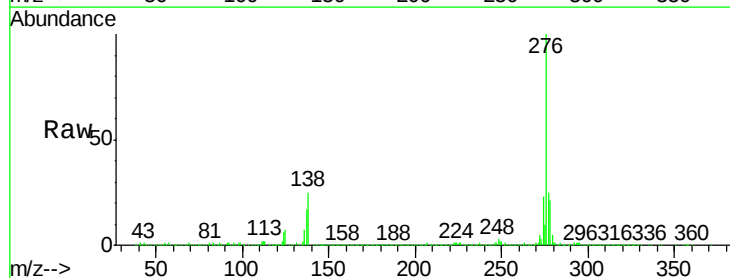
Tgt Ion:276 Resp: 1322026

Ion Ratio Lower Upper

276 100

138 23.4 21.4 32.2

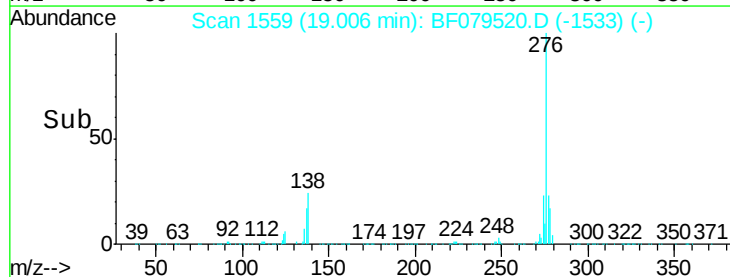
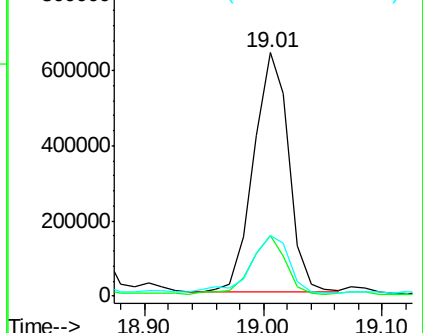
277 26.3 19.8 29.6

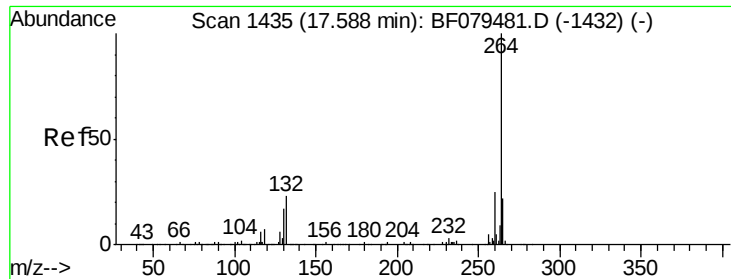


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





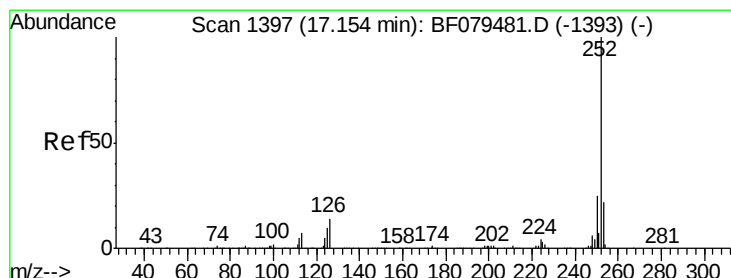
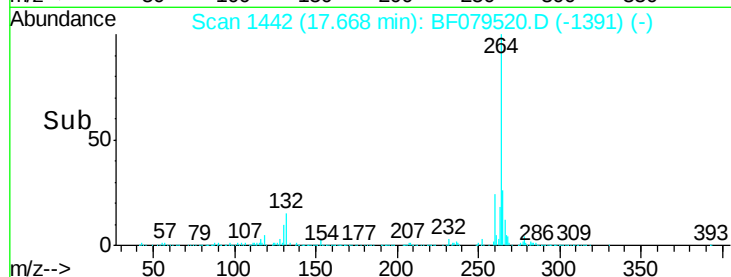
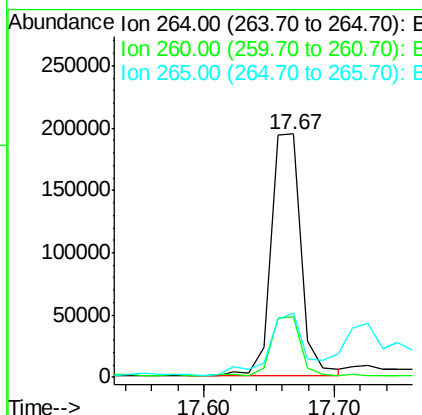
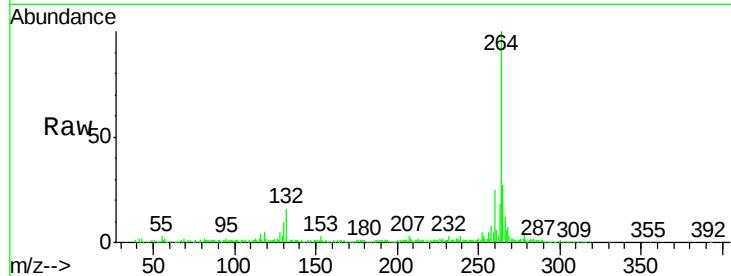
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.67 min Scan# 1442
Delta R.T. 0.08 min
Lab File: BF079520.D
Acq: 27 May 2015 15:52

Instrument :
BNA_F
ClientSampled :
SB-29S

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	311896		
260	25.1	19.8	29.8	
265	26.7	17.8	26.6#	

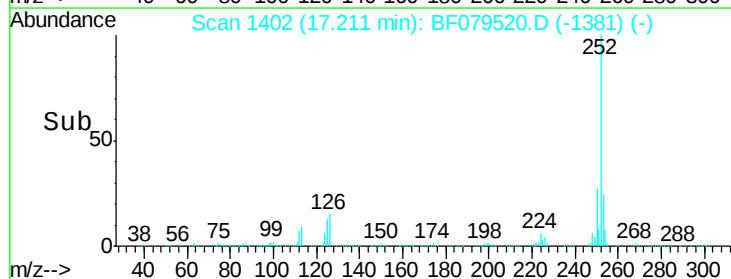
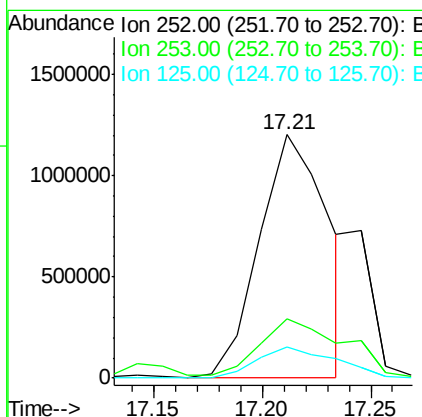
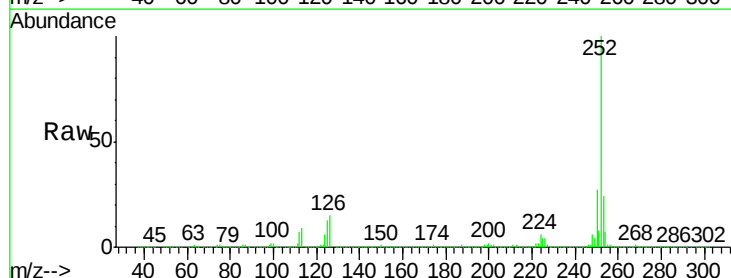
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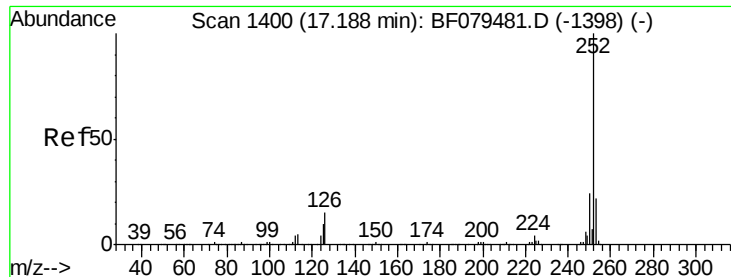
apatel
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#87
Benzo(b)fluoranthene
Concen: 150.01 ng m
RT: 17.21 min Scan# 1402
Delta R.T. 0.06 min
Lab File: BF079520.D
Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	2668490		
253	24.2	17.6	26.4	
125	12.7	7.8	11.6#	





#88

Benzo(k)fluoranthene

Concen: 34.73 ng m

RT: 17.25 min Scan# 1405

Delta R.T. 0.06 min

Lab File: BF079520.D

Acq: 27 May 2015 15:52

Instrument :

BNA_F

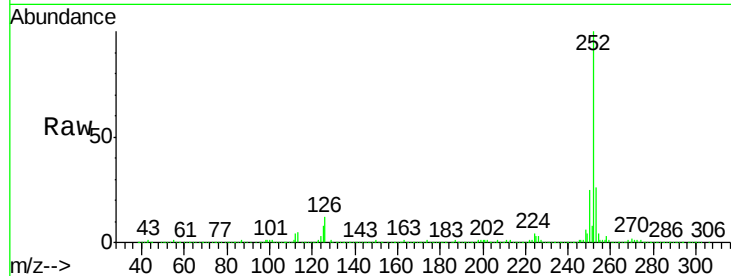
ClientSampleId :

SB-29S

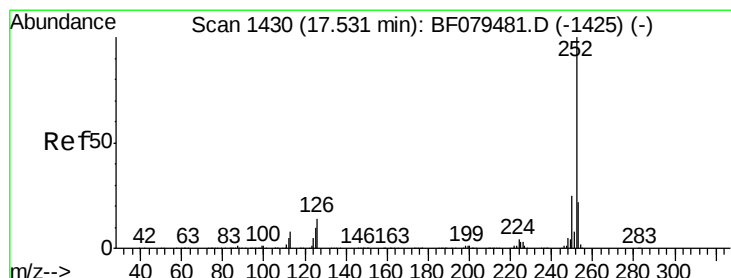
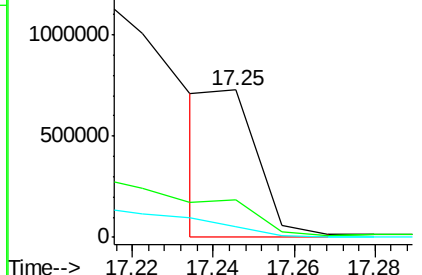
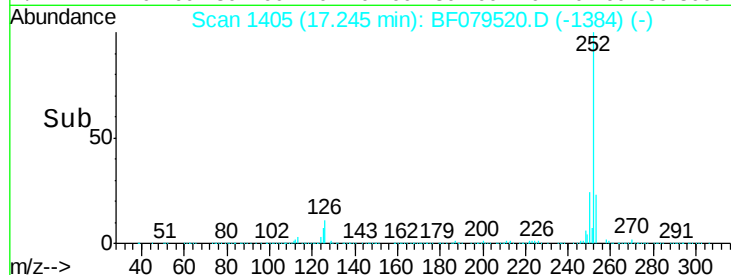
Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.2	25.8
125	7.5	6.8	10.2

Manual Integrations
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apatel
5/28/2015 12:03:21 PM



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: 124.40 ng

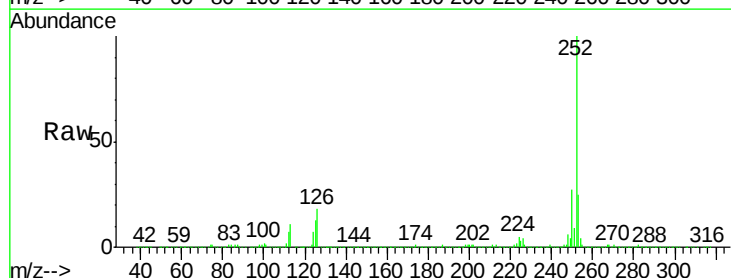
RT: 17.60 min Scan# 1436

Delta R.T. 0.07 min

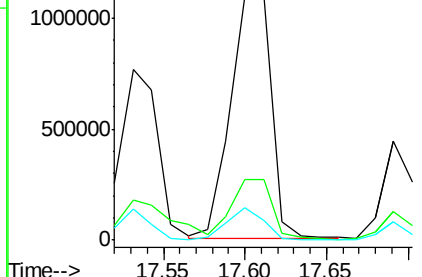
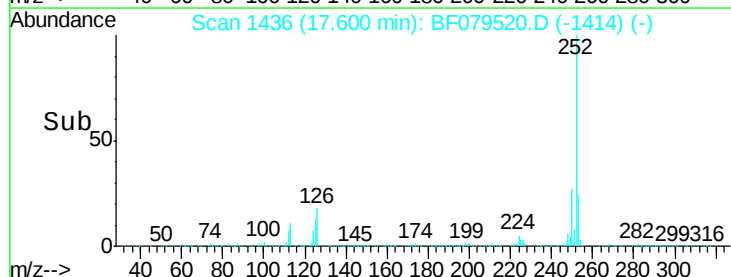
Lab File: BF079520.D

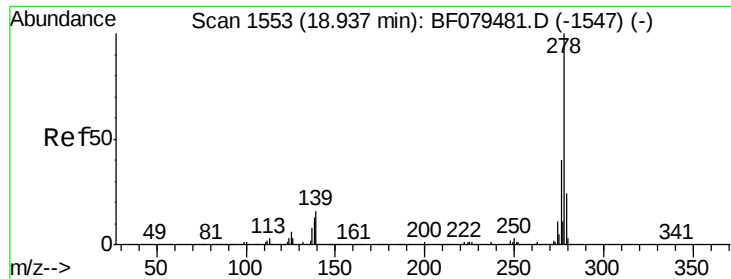
Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.8	26.8
125	13.5	7.9	11.9#



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





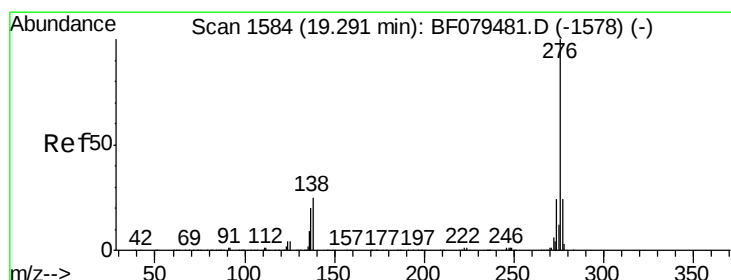
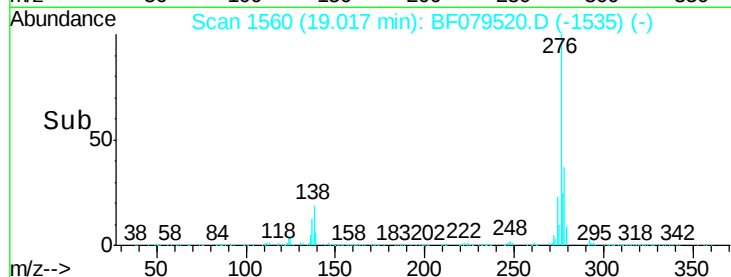
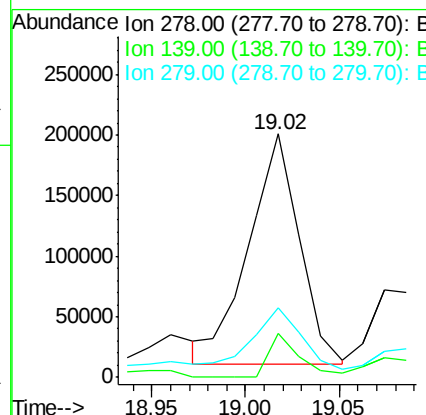
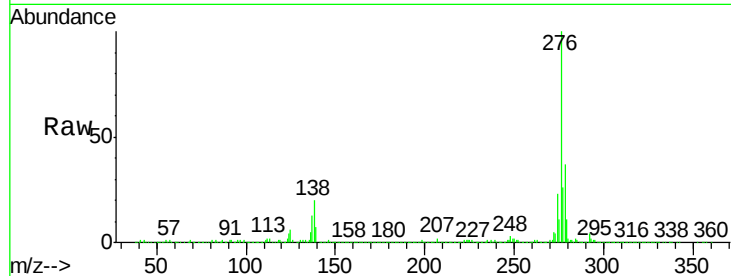
#90
Dibenzo(a,h)anthracene
Concen: 21.32 ng m
RT: 19.02 min Scan# 1560
Delta R.T. 0.08 min
Lab File: BF079520.D
Acq: 27 May 2015 15:52

Instrument :
BNA_F
ClientSampleId :
SB-29S

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.9	12.8	19.2
279	28.7	19.1	28.7#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 73.97 ng
RT: 19.39 min Scan# 1593
Delta R.T. 0.10 min
Lab File: BF079520.D
Acq: 27 May 2015 15:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.1	28.7
138	25.6	20.1	30.1

