

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
 Data File : BF077576.D
 Acq On : 4 Mar 2015 6:42
 Operator : TP/IZ
 Sample : G1332-09
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Manual Integrations
 APPROVED

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 3/4/2015 4:42:38 PM

Quant Time: Mar 04 12:42:59 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 04 04:46:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.25	152	90615	20.00	ng	0.01
21) Naphthalene-d8	8.82	136	306792	20.00	ng	0.01
38) Acenaphthene-d10	10.99	164	208085	20.00	ng	0.00
63) Phenanthrene-d10	12.83	188	399964	20.00	ng	0.00
75) Chrysene-d12	16.12	240	362056	20.00	ng	0.00
86) Perylene-d12	17.88	264	366304	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.54	112	257200	47.38	ng	0.01
7) Phenol-d6	6.80	99	452908	64.90	ng	0.00
23) Nitrobenzene-d5	7.94	82	268859	54.50	ng	0.02
41) 2,4,6-Tribromophenol	11.97	330	119015	59.40	ng	0.00
44) 2-Fluorobiphenyl	10.16	172	564893	42.33	ng	0.00
78) Terphenyl-d14	14.83	244	667832	43.12	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.85	128	3649736	237.89	ng	# 94
37) 2-Methylnaphthalene	9.71	142	2741395	251.61	ng	# 95
45) 1,1'-Biphenyl	10.28	154	69357	4.40	ng	98
51) Acenaphthene	11.03	154	44764	3.83	ng	97
54) Dibenzofuran	11.24	168	58544	3.25	ng	# 89
57) Fluorene	11.67	166	80842	5.61	ng	96
70) Phenanthrene	12.86	178	316284	13.64	ng	99
71) Anthracene	12.92	178	75054	3.26	ng	98
74) Fluoranthene	14.34	202	256490	10.13	ng	98
77) Pyrene	14.62	202	230744	10.42	ng	98
80) Benzo(a)anthracene	16.11	228	60456	2.85	ng	93
82) Chrysene	16.15	228	72361m	3.63	ng	
87) Benzo(b)fluoranthene	17.43	252	93292m	4.38	ng	
89) Benzo(a)pyrene	17.81	252	55427m	2.73	ng	
91) Benzo(g,h,i)perylene	19.74	276	41940	2.15	ng	96

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

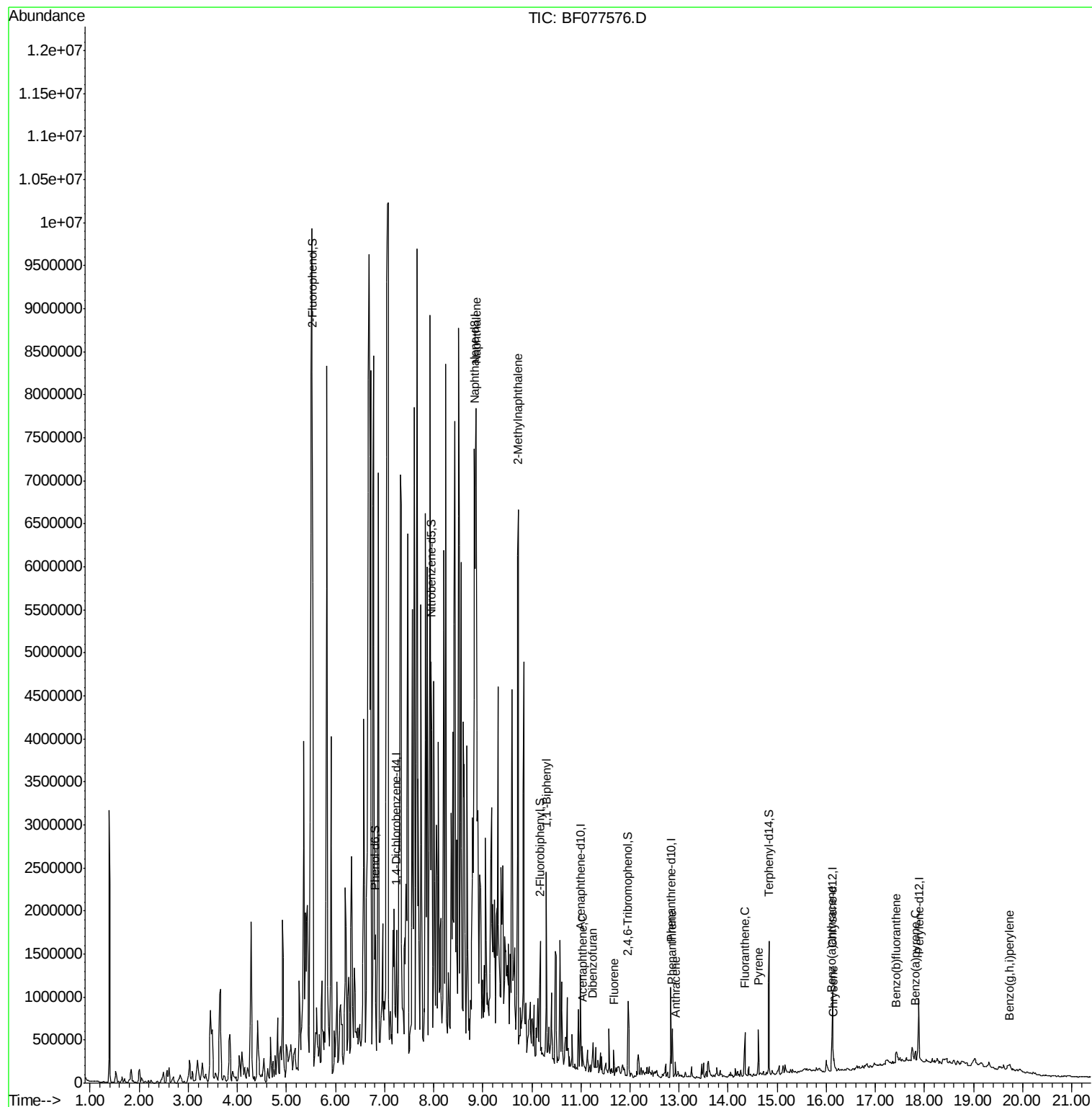
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
Data File : BF077576.D
Acq On : 4 Mar 2015 6:42
Operator : TP/IZ
Sample : G1332-09
Misc :
ALS Vial : 33 Sample Multiplier: 1

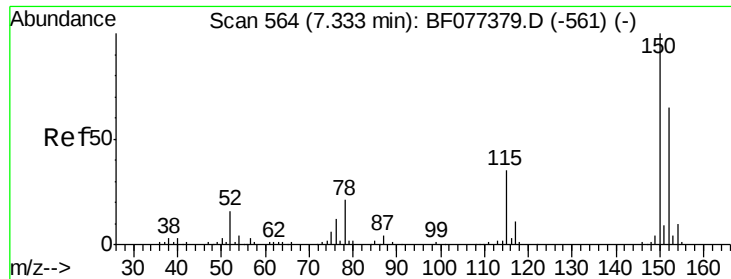
Instrument :
BNA_F
ClientSampleId :
TP-2

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Quant Time: Mar 04 12:42:59 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 04 04:46:40 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.25 min Scan# 556

Delta R.T. 0.01 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

Instrument :

BNA_F

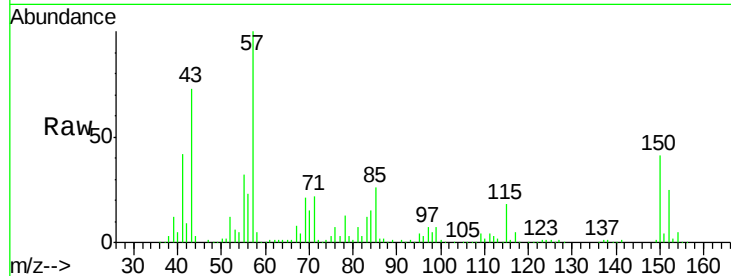
ClientSampled :

TP-2

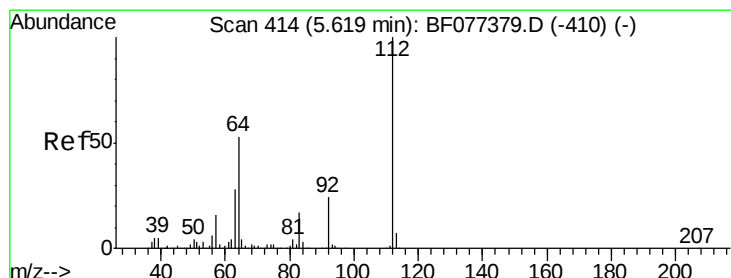
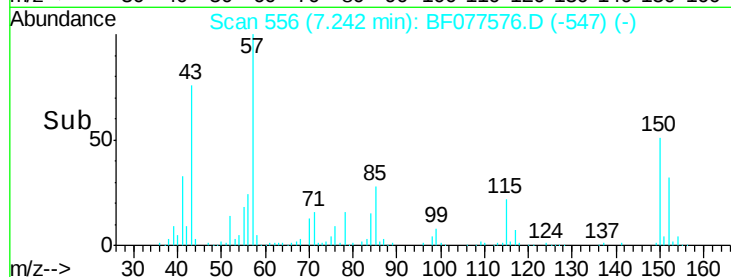
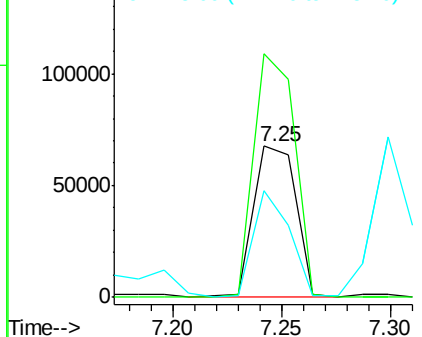
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Tgt Ion:	152	Resp:	90615
Ion Ratio	Lower	Upper	
152	100		
150	161.1	124.0	186.0
115	70.3	49.4	74.2



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: 47.38 ng

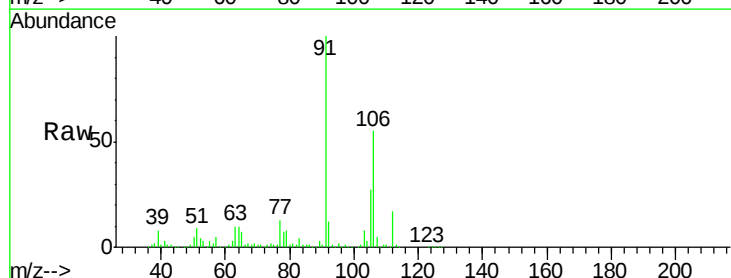
RT: 5.54 min Scan# 407

Delta R.T. 0.01 min

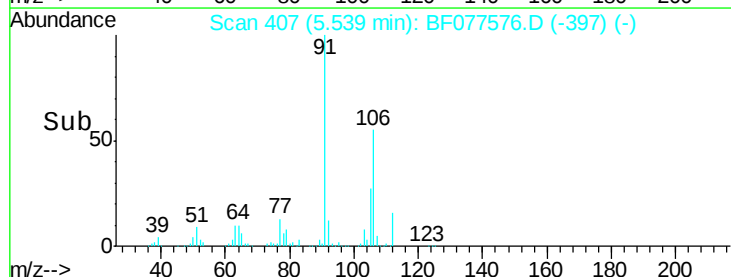
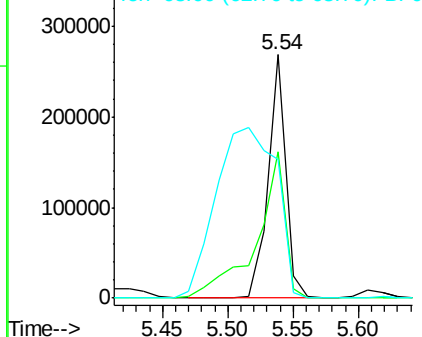
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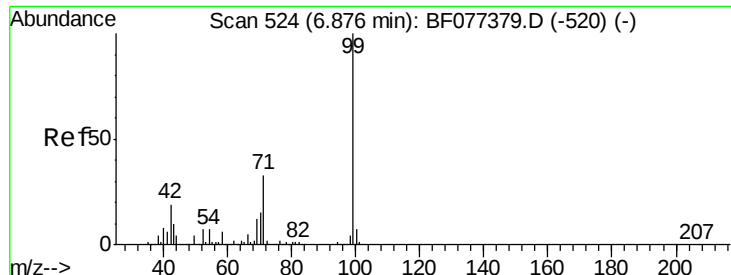
Acq: 4 Mar 2015 6:42

Tgt Ion:	112	Resp:	257200
Ion Ratio	Lower	Upper	
112	100		
64	60.1	48.5	72.7
63	57.0	25.0	37.4#



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: 64.90 ng

RT: 6.80 min Scan# 518

Delta R.T. 0.01 min

Lab File: BF077576.D

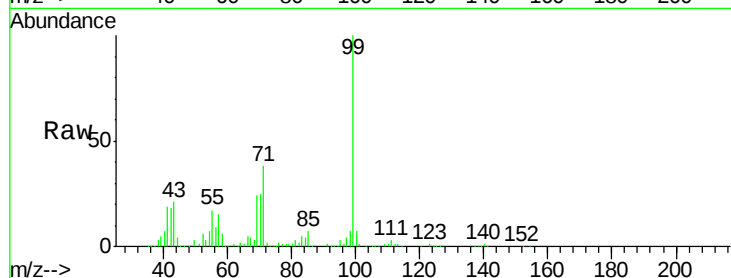
Acq: 4 Mar 2015 6:42

Instrument :

BNA_F

ClientSampled :

TP-2



Tgt Ion: 99 Resp: 452908

Ion Ratio Lower Upper

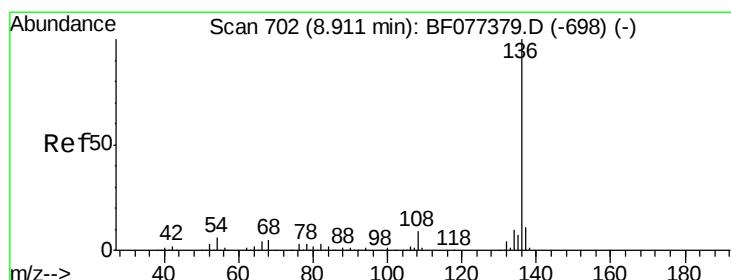
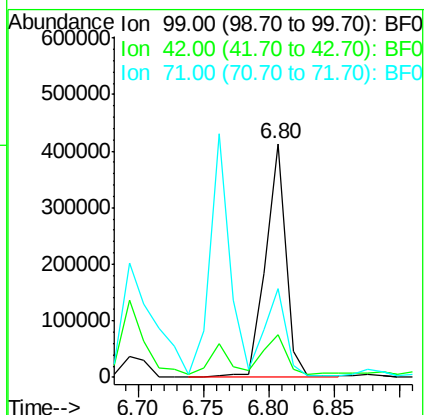
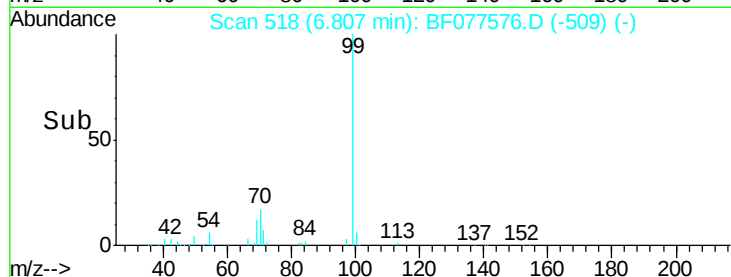
99 100

42 18.5 16.2 24.4

71 38.2 26.7 40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.82 min Scan# 694

Delta R.T. 0.01 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

Tgt Ion: 136 Resp: 306792

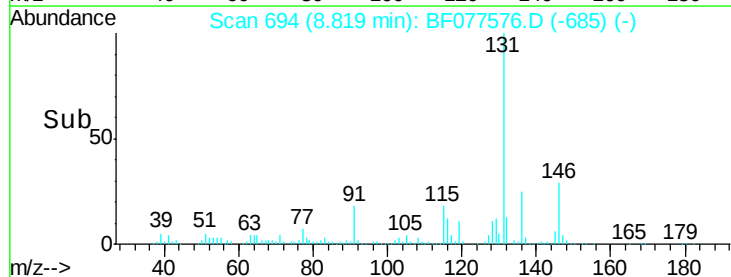
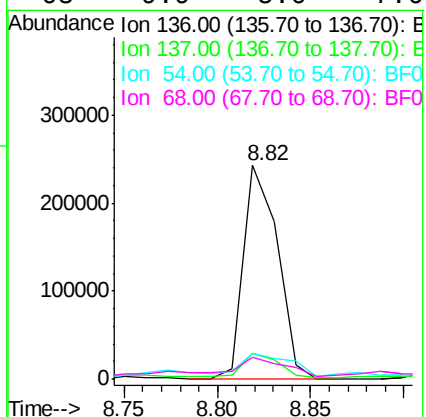
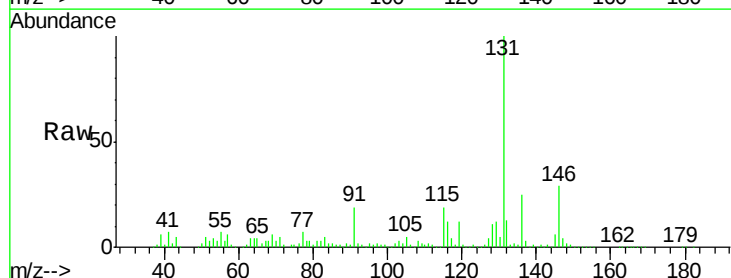
Ion Ratio Lower Upper

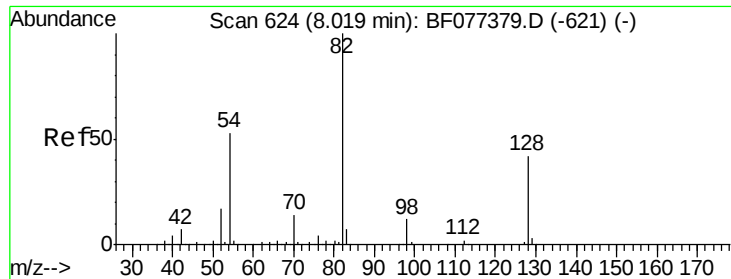
136 100

137 12.3 8.6 13.0

54 12.1 6.2 9.4#

68 9.9 5.0 7.6#





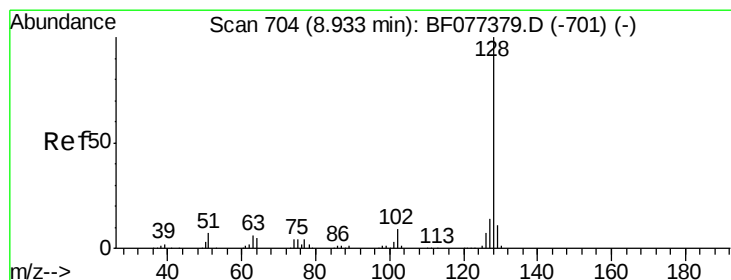
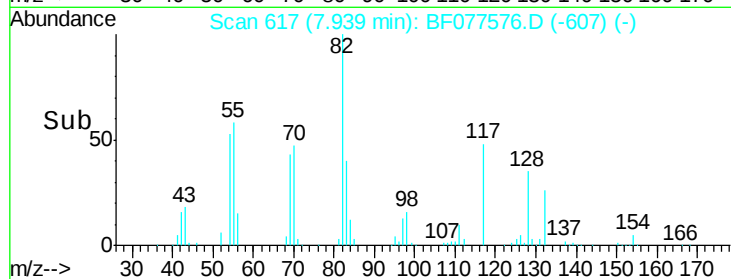
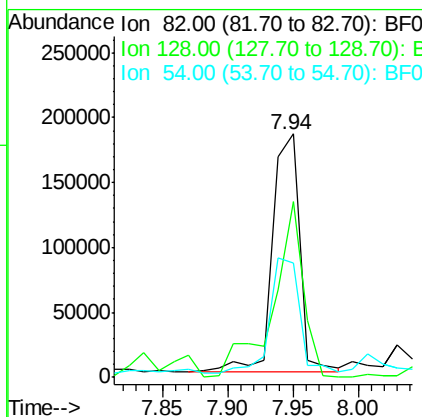
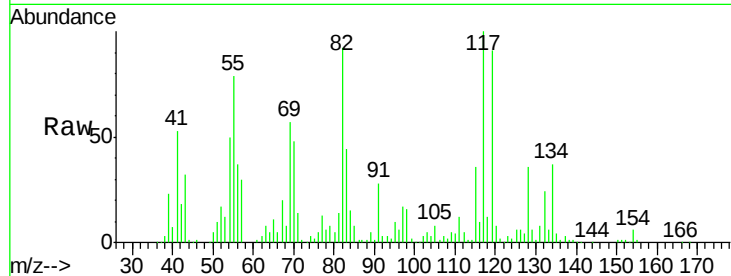
#23
Nitrobenzene-d5
Concen: 54.50 ng
RT: 7.94 min Scan# 617
Delta R.T. 0.02 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Instrument :
BNA_F
ClientSampled :
TP-2

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	39.3	43.8	65.8#
54	54.3	36.7	55.1

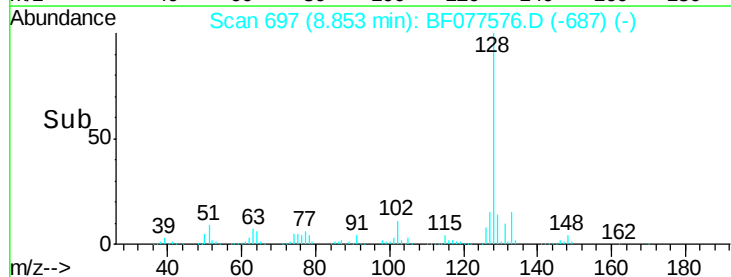
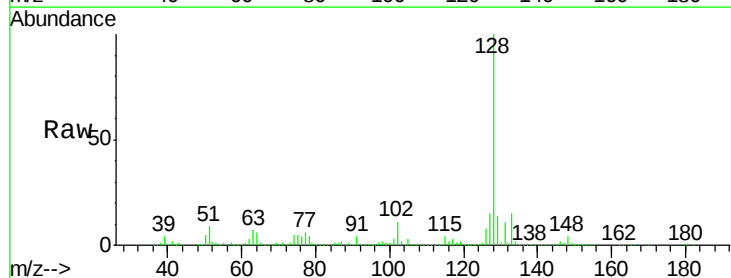
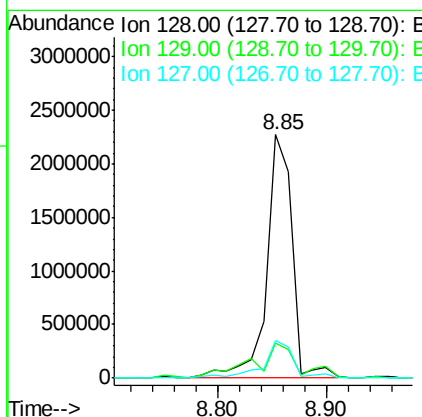
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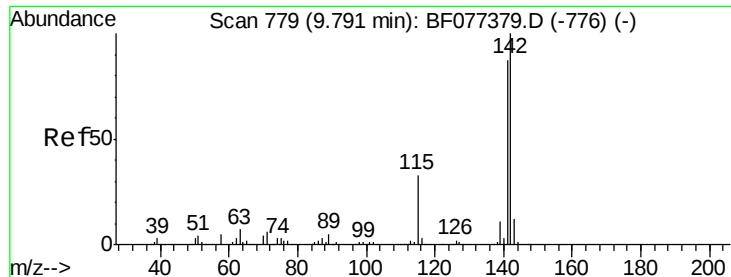
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#31
Naphthalene
Concen: 237.89 ng
RT: 8.85 min Scan# 697
Delta R.T. 0.01 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	14.2	9.4	14.0#
127	15.3	10.6	15.8





#37

2-Methylnaphthalene

Concen: 251.61 ng

RT: 9.71 min Scan# 772

Delta R.T. 0.02 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

Instrument :

BNA_F

ClientSampled :

TP-2

Tgt Ion:142 Resp: 2741395

Ion Ratio Lower Upper

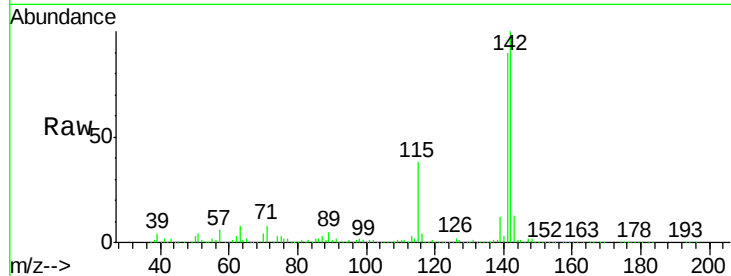
142 100

141 90.4 70.7 106.1

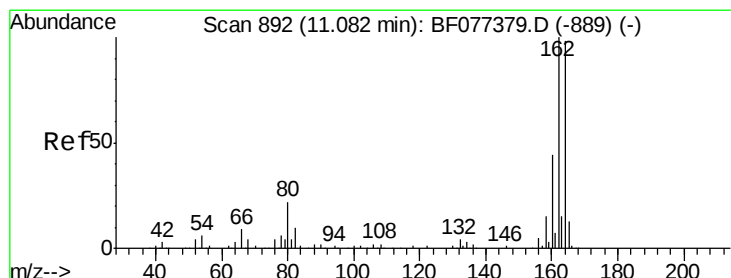
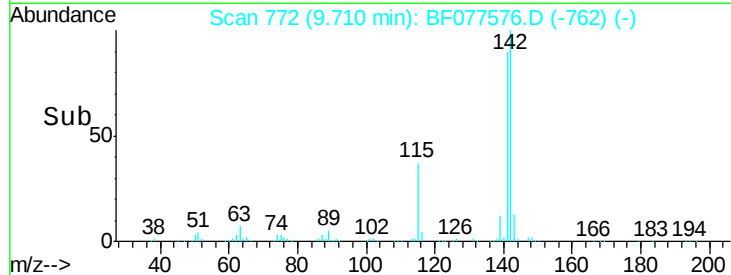
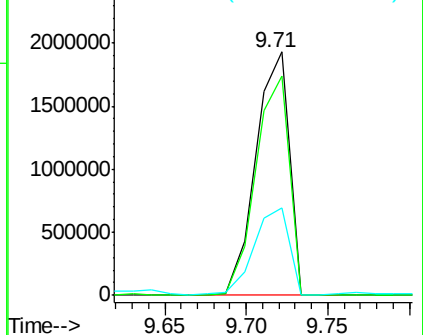
115 37.6 24.2 36.4#

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Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.99 min Scan# 884

Delta R.T. 0.00 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

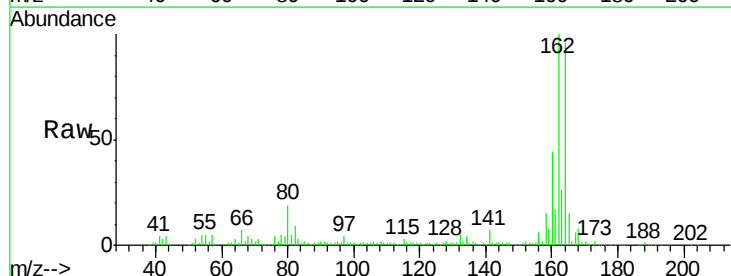
Tgt Ion:164 Resp: 208085

Ion Ratio Lower Upper

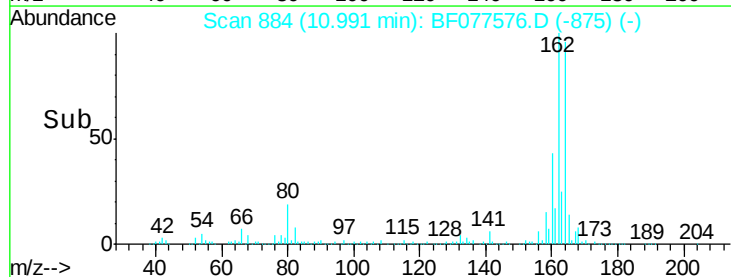
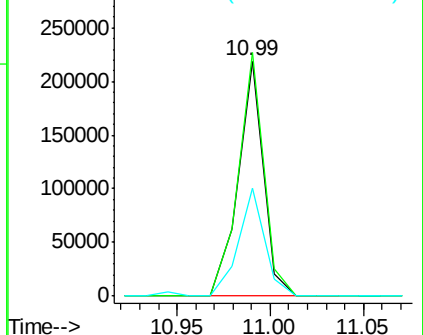
164 100

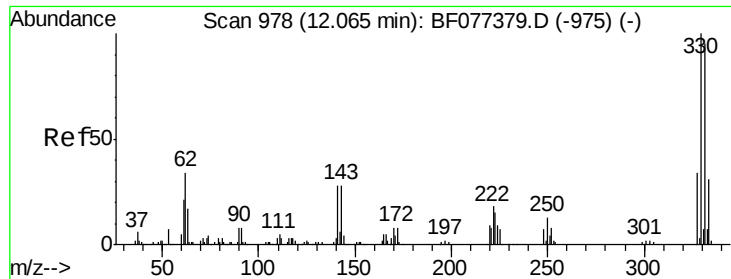
162 103.7 83.2 124.8

160 45.8 34.6 52.0



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





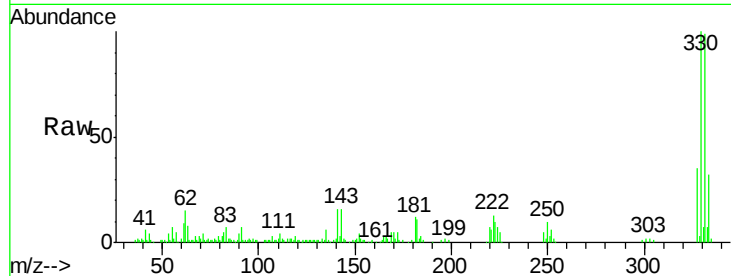
#41
 2,4,6-Tribromophenol
 Concen: 59.40 ng
 RT: 11.97 min Scan# 970
 Delta R.T. -0.00 min
 Lab File: BF077576.D
 Acq: 4 Mar 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	119015		
332	96.4	77.4	116.2	
141	36.4	28.8	43.2	

Manual Integrations
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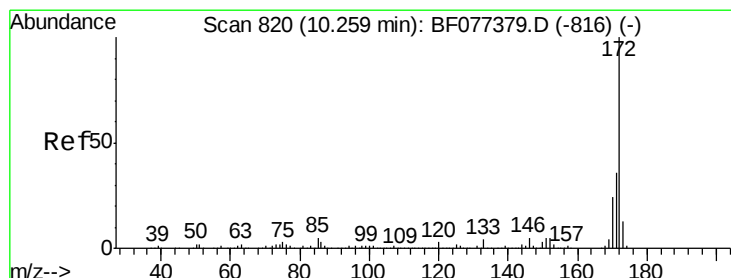
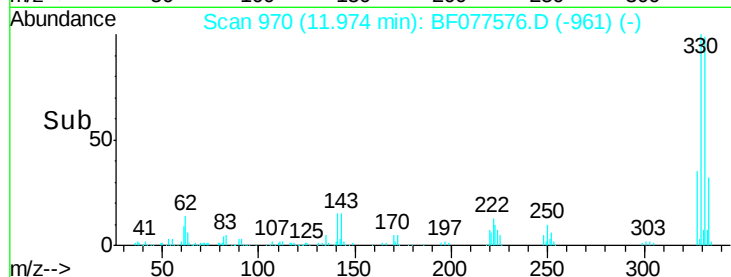
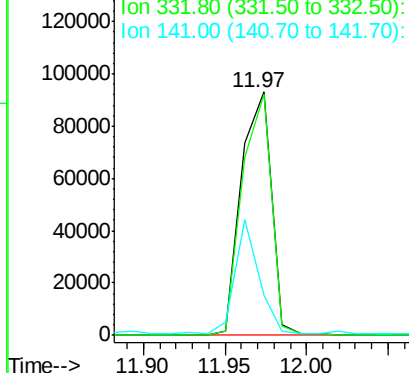


Abundance

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: 42.33 ng
 RT: 10.16 min Scan# 812
 Delta R.T. 0.00 min
 Lab File: BF077576.D
 Acq: 4 Mar 2015 6:42

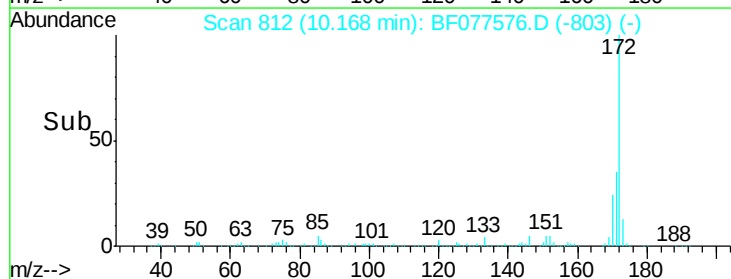
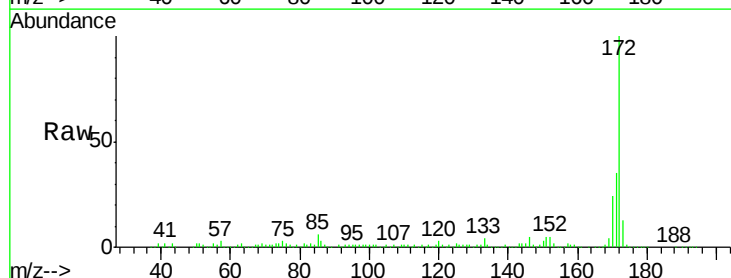
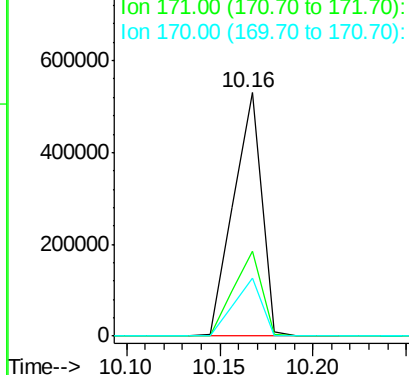
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	564893		
171	34.8	28.9	43.3	
170	23.6	19.4	29.2	

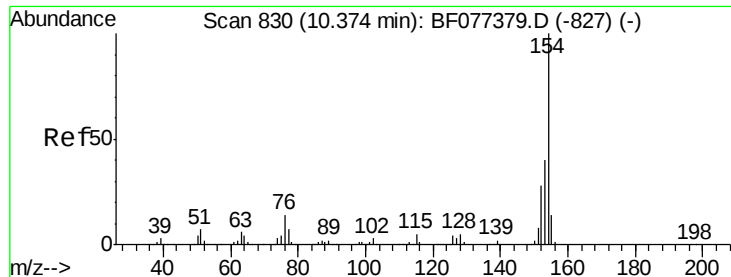
Abundance

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





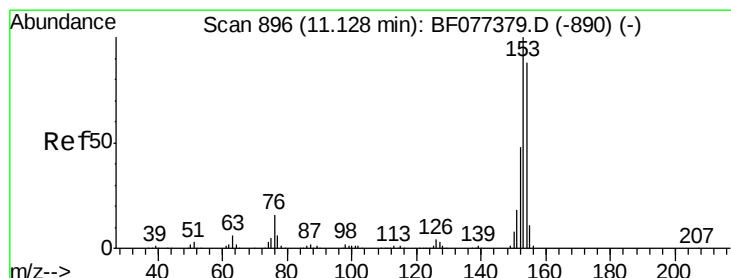
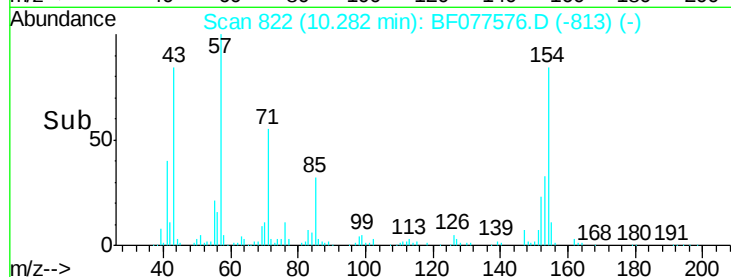
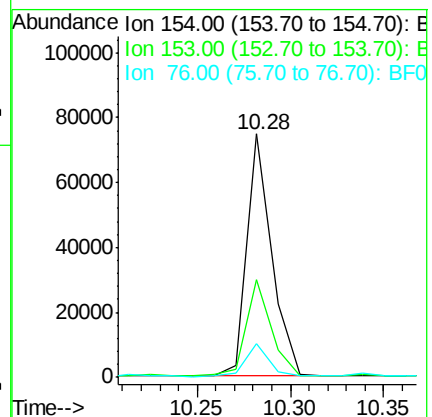
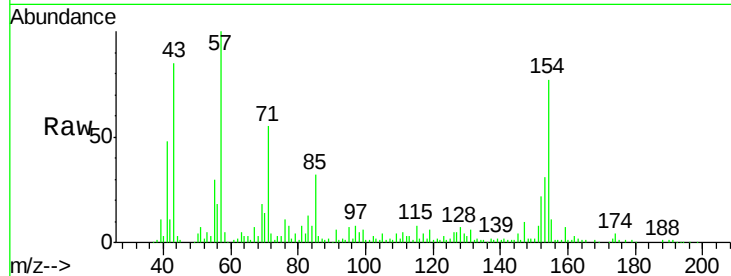
#45
1,1'-Biphenyl
Concen: 4.40 ng
RT: 10.28 min Scan# 822
Delta R.T. 0.00 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	69357		
153	40.4	20.2	60.2	
76	13.7	0.0	29.4	

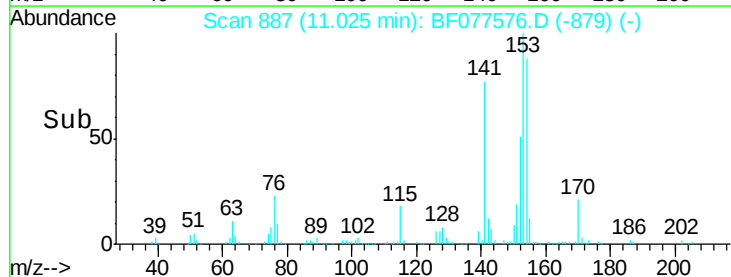
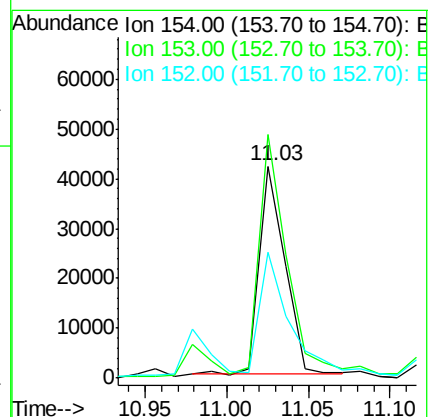
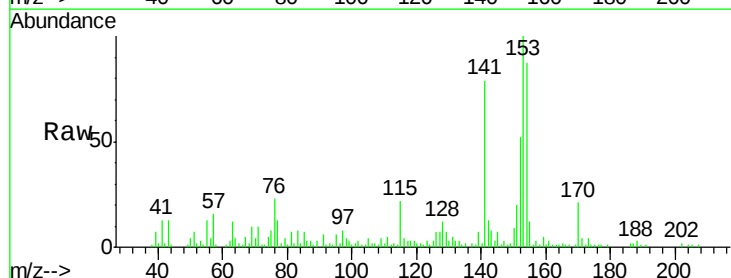
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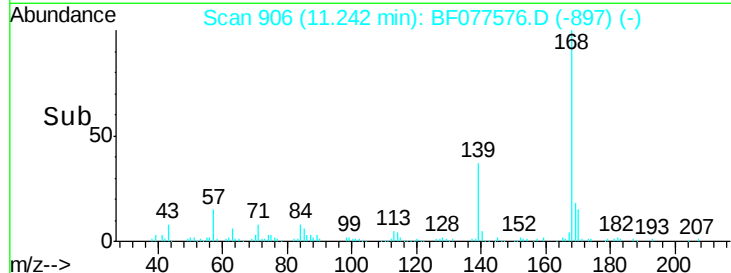
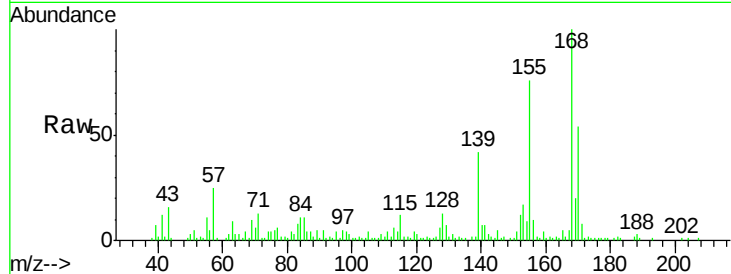
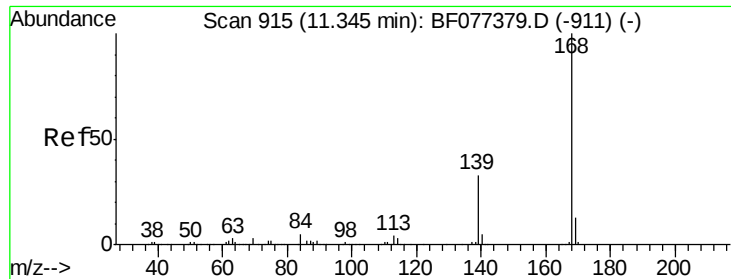
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#51
Acenaphthene
Concen: 3.83 ng
RT: 11.03 min Scan# 887
Delta R.T. -0.00 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	44764		
153	114.8	90.5	135.7	
152	59.2	43.5	65.3	





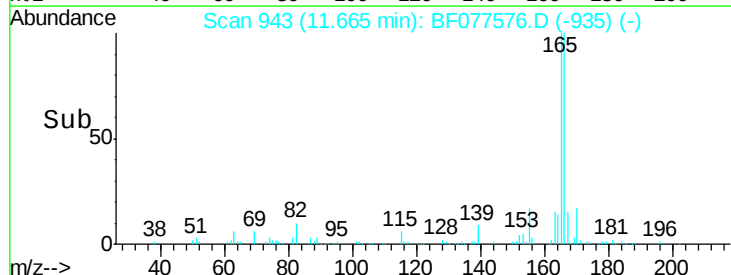
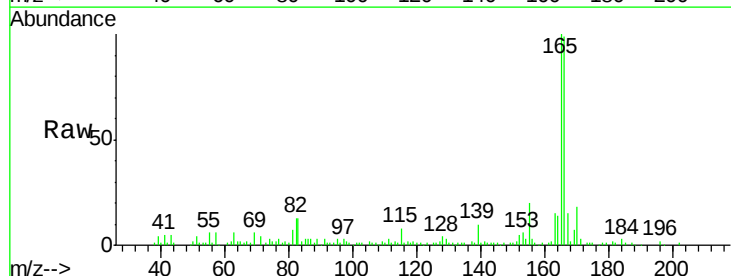
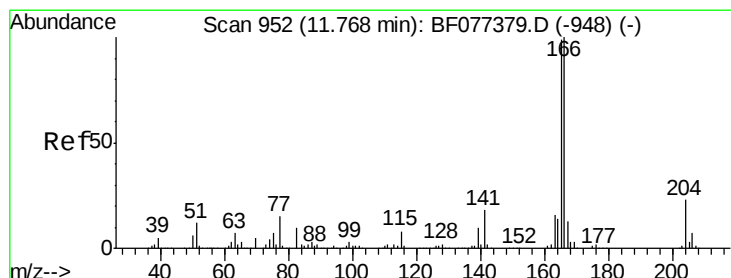
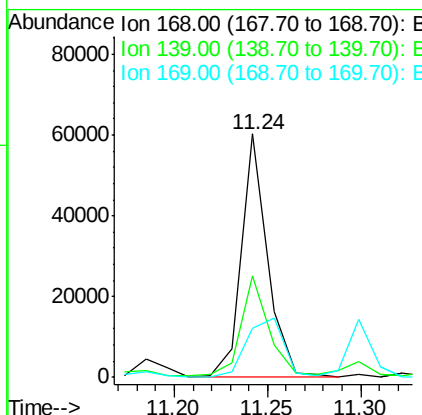
#54
Dibenzofuran
Concen: 3.25 ng
RT: 11.24 min Scan# 906
Delta R.T. -0.00 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	58544		
139	41.9	29.3	43.9	
169	20.1	10.9	16.3	

Instrument :
BNA_F
ClientSampleId :
TP-2

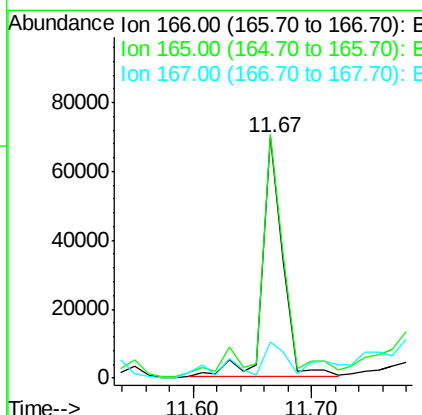
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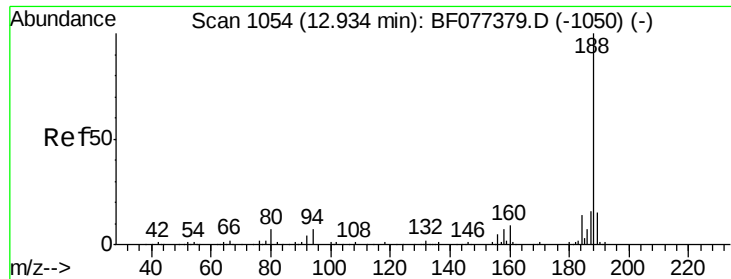
mohammad
3/4/2015 4:42:38 PM



#57
Fluorene
Concen: 5.61 ng
RT: 11.67 min Scan# 943
Delta R.T. -0.00 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	80842		
165	101.2	77.6	116.4	
167	15.0	10.6	16.0	





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.83 min Scan# 1045

Delta R.T. -0.00 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

Instrument :

BNA_F

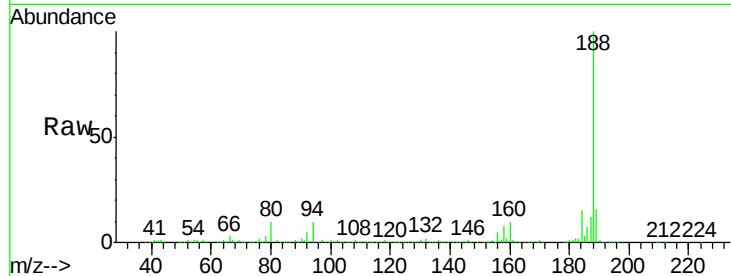
ClientSampled :

TP-2

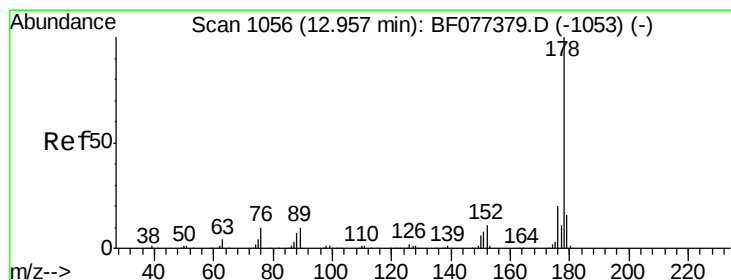
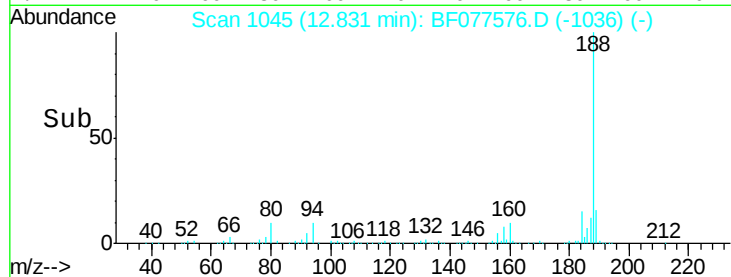
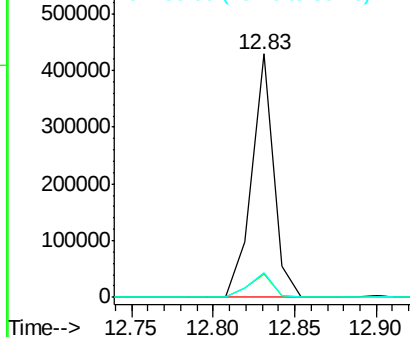
Tgt Ion:	188	Resp:	399964
Ion Ratio	Lower	Upper	
188	100		
94	9.6	7.4	11.2
80	10.0	8.0	12.0

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



#70

Phenanthrene

Concen: 13.64 ng

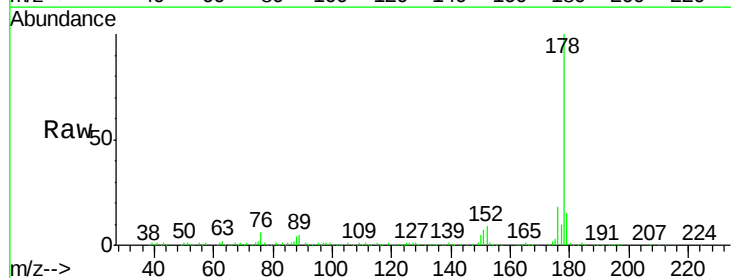
RT: 12.86 min Scan# 1048

Delta R.T. -0.00 min

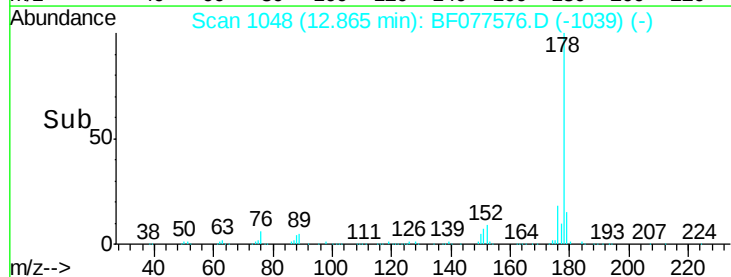
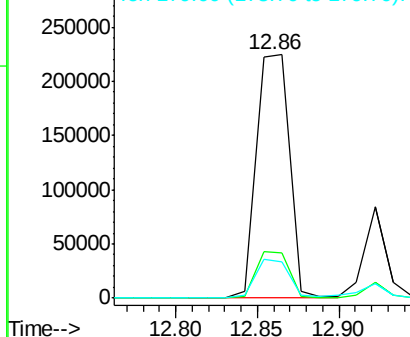
Lab File: BF077576.D

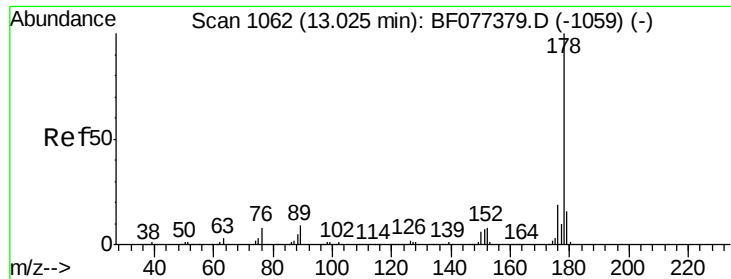
Acq: 4 Mar 2015 6:42

Tgt Ion:	178	Resp:	316284
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.5	23.3
179	15.0	12.2	18.2



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





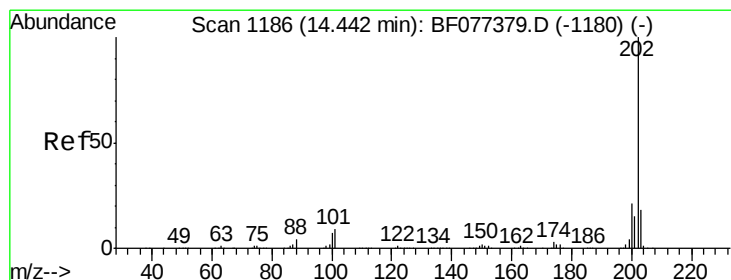
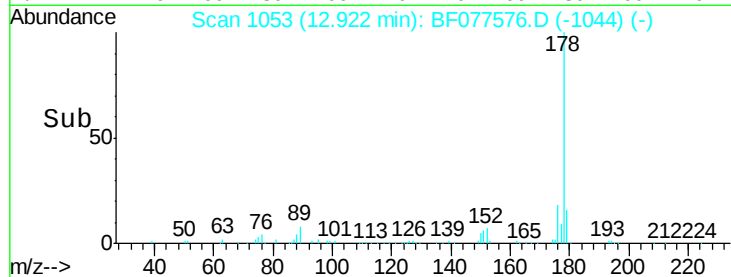
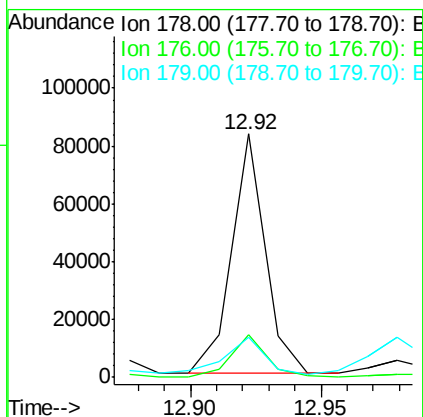
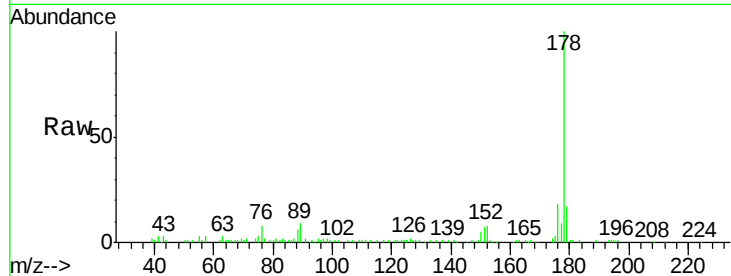
#71
 Anthracene
 Concen: 3.26 ng
 RT: 12.92 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: BF077576.D
 Acq: 4 Mar 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.0
179	16.6	12.9	19.3

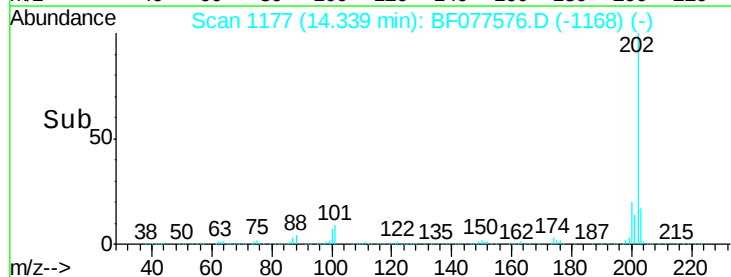
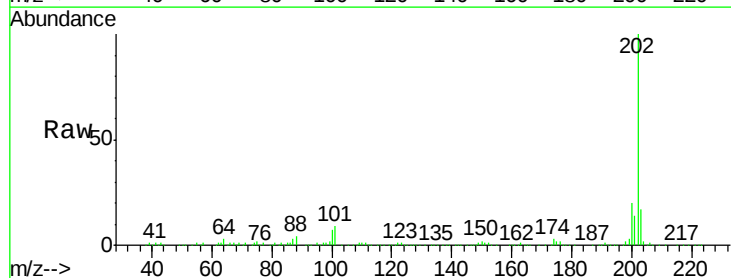
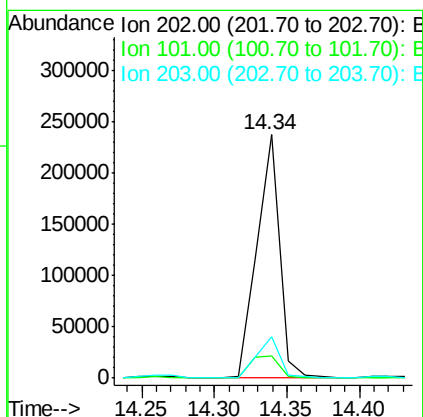
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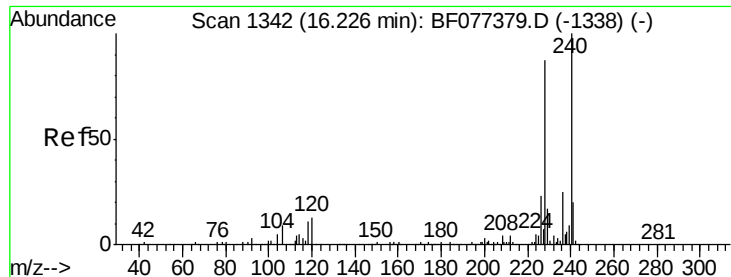
mohammad
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#74
 Fluoranthene
 Concen: 10.13 ng
 RT: 14.34 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: BF077576.D
 Acq: 4 Mar 2015 6:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	30.8
203	17.3	0.0	37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.12 min Scan# 1333

Delta R.T. 0.01 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

Instrument :

BNA_F

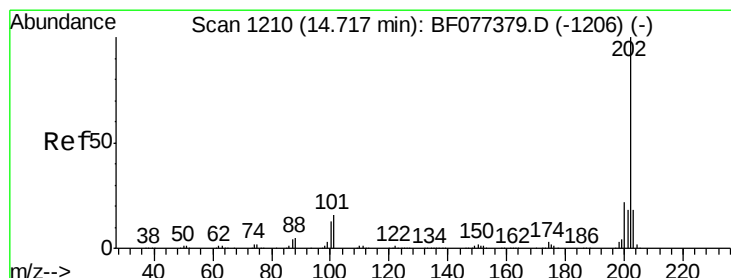
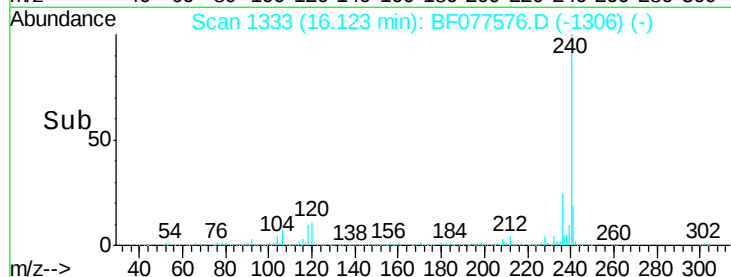
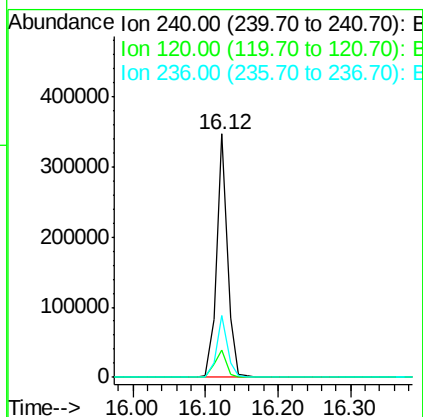
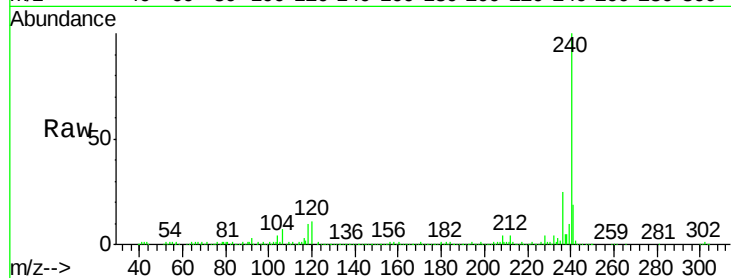
ClientSampleId :

TP-2

Tgt Ion:	240	Resp:	362056
Ion Ratio	Lower	Upper	
240	100		
120	11.2	8.8	13.2
236	25.3	20.7	31.1

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#77

Pyrene

Concen: 10.42 ng

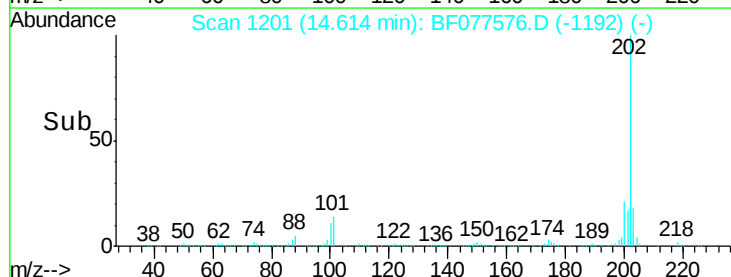
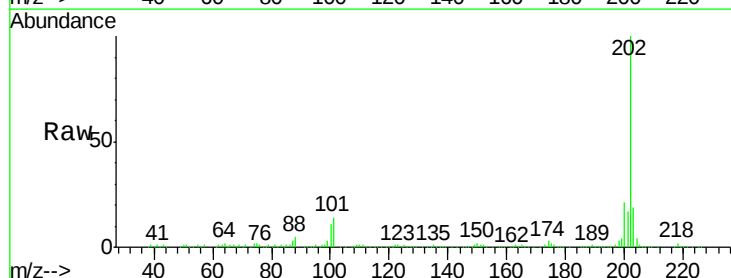
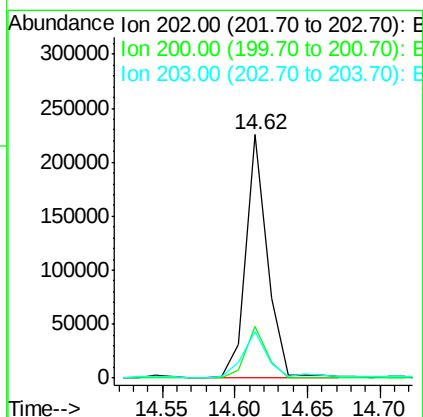
RT: 14.62 min Scan# 1201

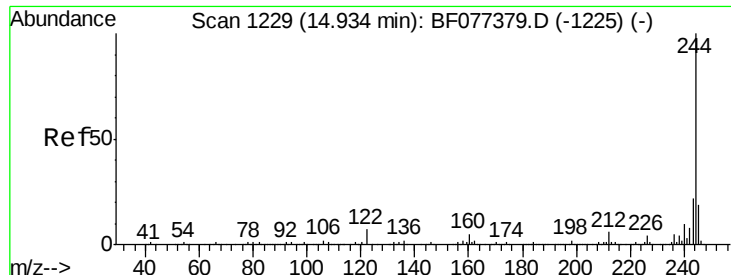
Delta R.T. -0.00 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

Tgt Ion:	202	Resp:	230744
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.1	25.7
203	19.0	14.2	21.2





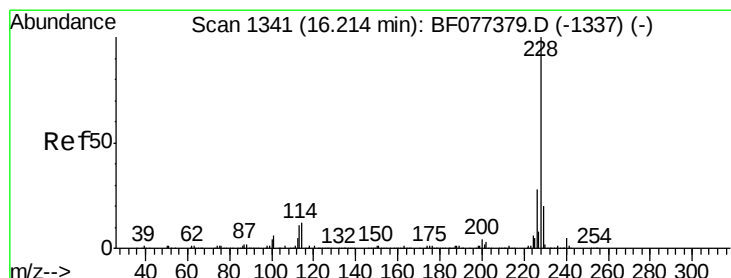
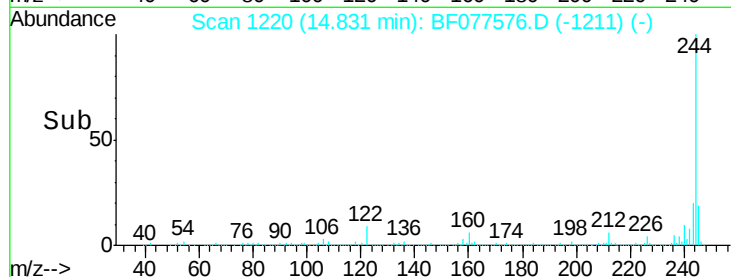
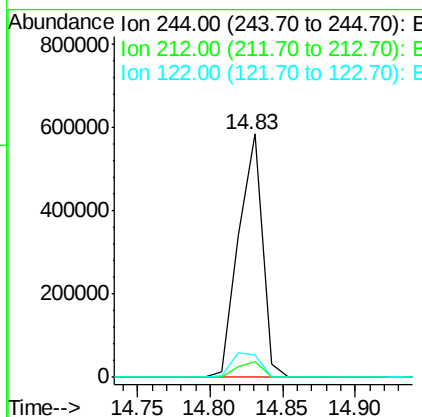
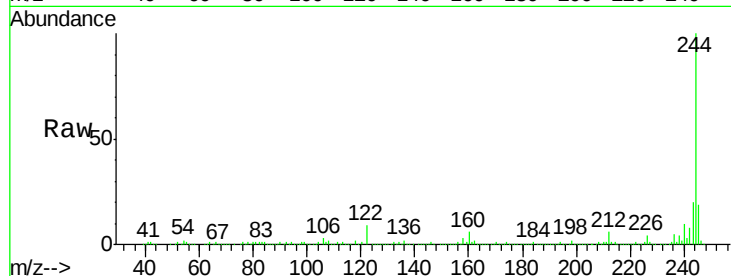
#78
 Terphenyl-d14
 Concen: 43.12 ng
 RT: 14.83 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: BF077576.D
 Acq: 4 Mar 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.4	5.2	7.8
122	9.1	7.8	11.8

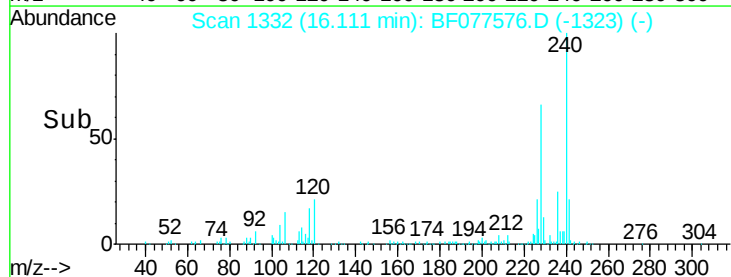
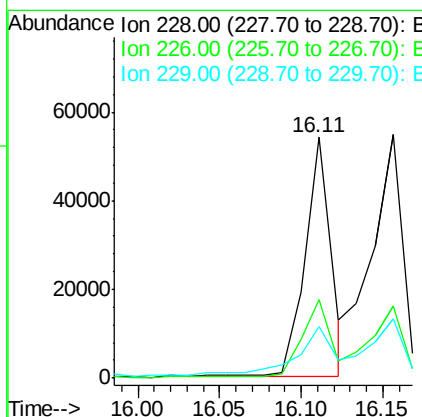
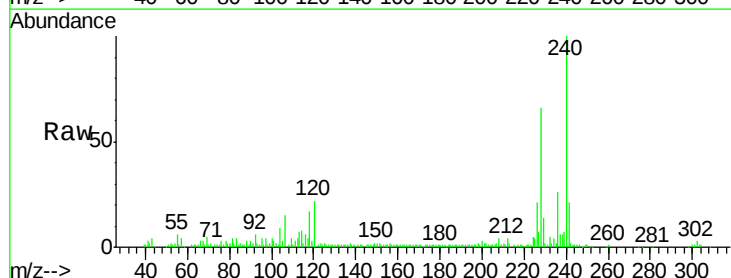
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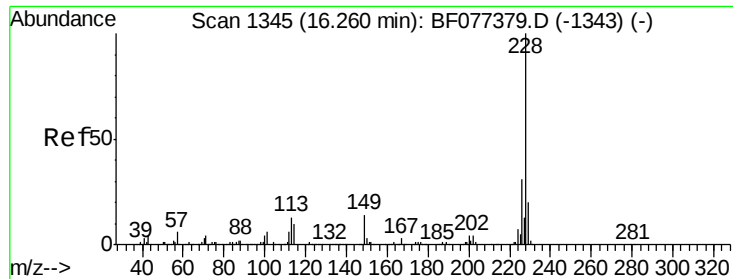
mohammad
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#80
 Benzo(a)anthracene
 Concen: 2.85 ng
 RT: 16.11 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: BF077576.D
 Acq: 4 Mar 2015 6:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	32.4	22.0	33.0
229	21.2	15.8	23.8





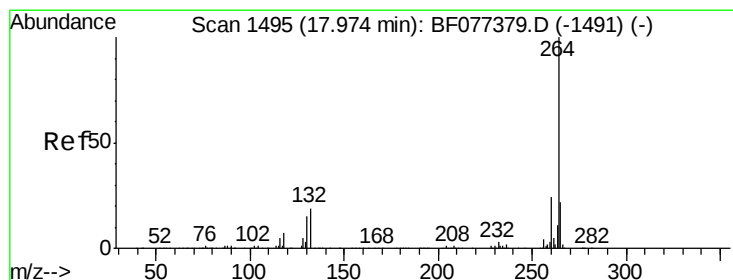
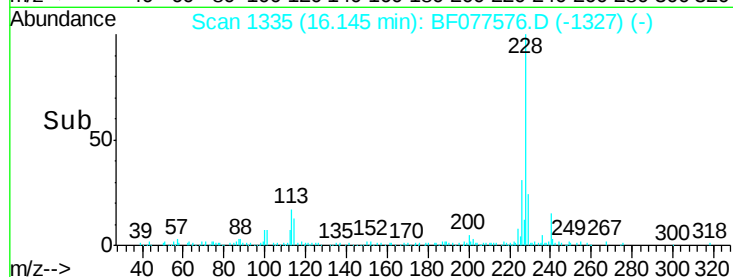
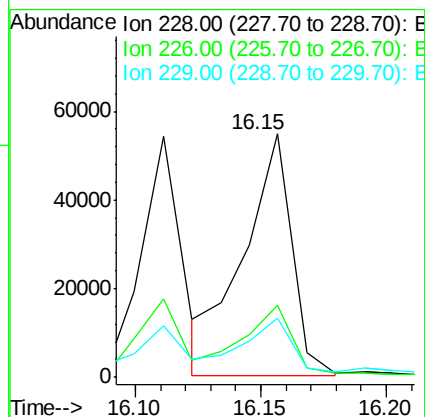
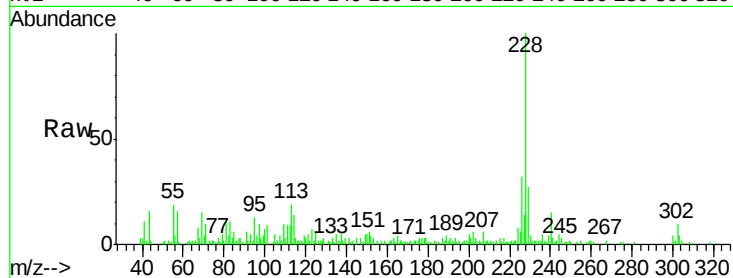
#82
Chrysene
Concen: 3.63 ng m
RT: 16.15 min Scan# 1335
Delta R.T. -0.00 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion:	228	Resp:	72361
Ion Ratio	Lower	Upper	
228	100		
226	32.0	24.9	37.3
229	27.4	16.4	24.6#

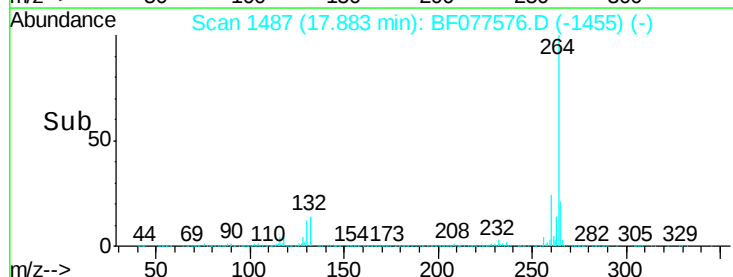
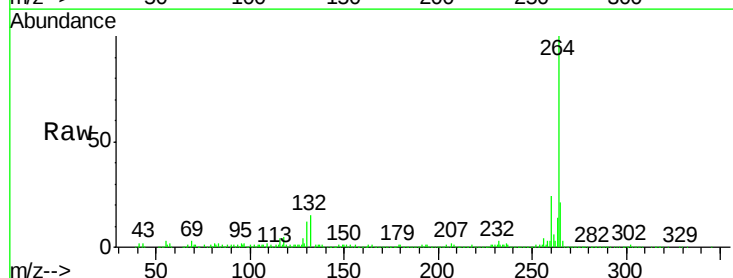
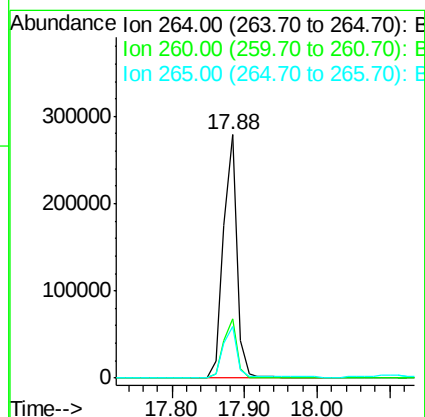
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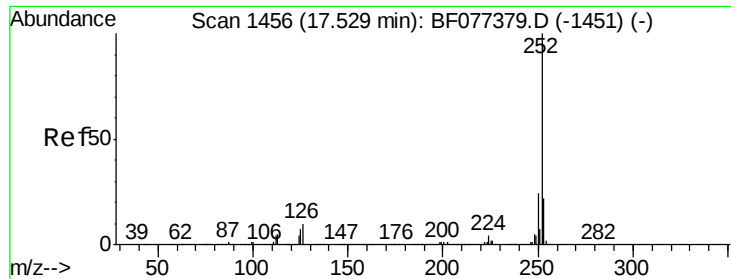
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 17.88 min Scan# 1487
Delta R.T. 0.06 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Tgt Ion:	264	Resp:	366304
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.3	28.9
265	21.2	16.8	25.2





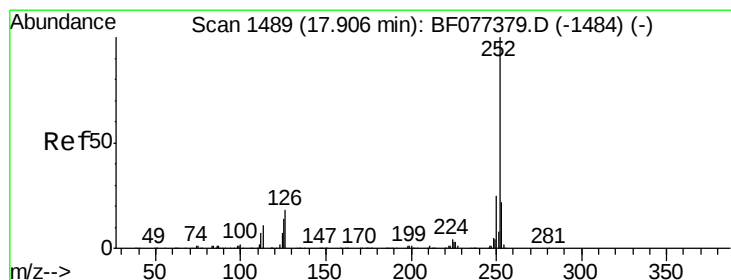
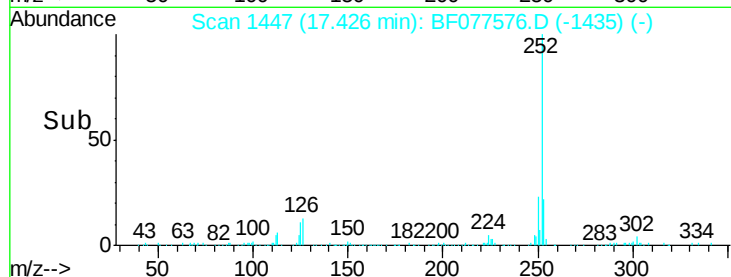
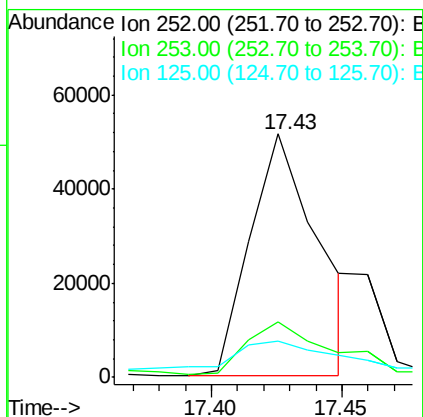
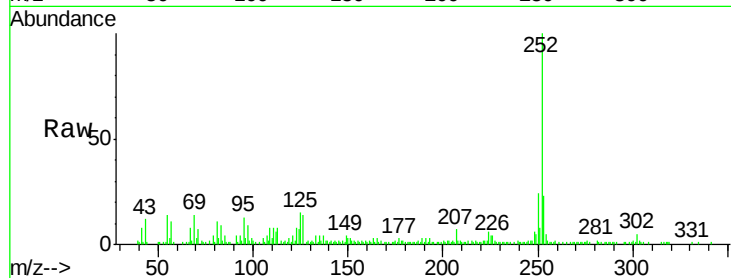
#87
Benzo(b)fluoranthene
Concen: 4.38 ng m
RT: 17.43 min Scan# 1447
Delta R.T. 0.04 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.6	26.4
125	15.0	5.4	8.2#

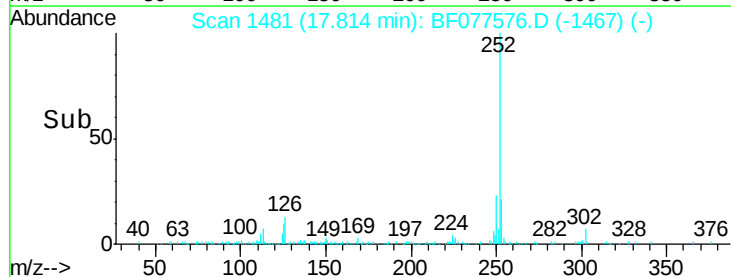
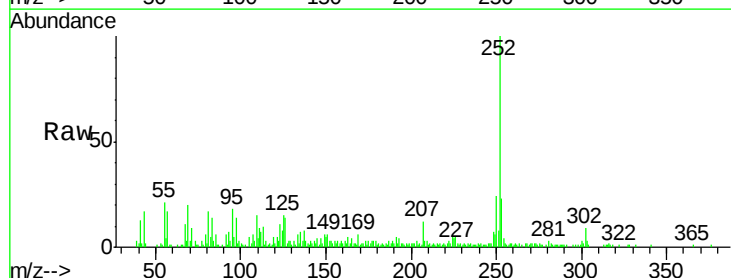
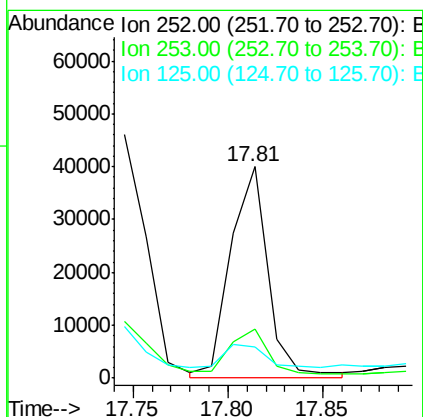
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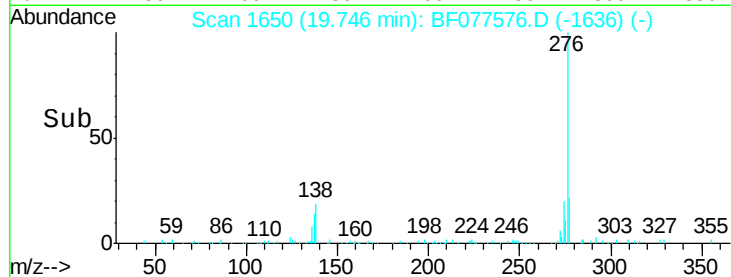
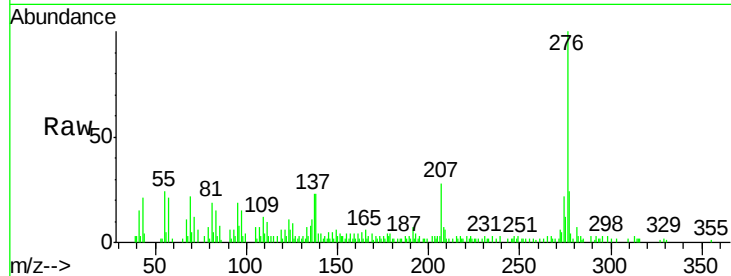
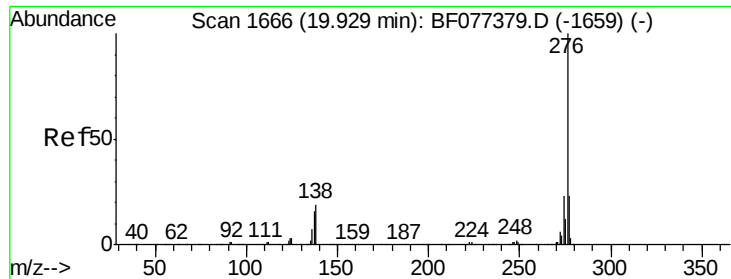
mohammad
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#89
Benzo(a)pyrene
Concen: 2.73 ng m
RT: 17.81 min Scan# 1481
Delta R.T. 0.06 min
Lab File: BF077576.D
Acq: 4 Mar 2015 6:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	14.6	8.3	12.5#





#91

Benzo(g,h,i)perylene

Concen: 2.15 ng

RT: 19.74 min Scan# 1650

Delta R.T. 0.06 min

Lab File: BF077576.D

Acq: 4 Mar 2015 6:42

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:	276	Resp:	41940
Ion Ratio	Lower	Upper	
276	100		
277	24.1	18.9	28.3
138	22.7	20.5	30.7

Manual Integrations
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