

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
 Data File : BF077568.D
 Acq On : 4 Mar 2015 2:53
 Operator : TP/IZ
 Sample : G1402-04DL 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW41DL

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Quant Time: Mar 04 06:59:05 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	7.24	152	81660	20.00	ng	0.00
21) Naphthalene-d8	8.82	136	330104	20.00	ng	0.00
38) Acenaphthene-d10	10.99	164	170644	20.00	ng	0.00
63) Phenanthrene-d10	12.83	188	316870	20.00	ng	0.00
75) Chrysene-d12	16.12	240	365089	20.00	ng	0.00
86) Perylene-d12	17.80	264	322161	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	12181	2.49	ng	0.00
7) Phenol-d6	6.80	99	8902	1.42	ng	0.00
23) Nitrobenzene-d5	7.93	82	22544	4.25	ng	0.00
41) 2,4,6-Tribromophenol	11.97	330	8667	5.27	ng	0.00
44) 2-Fluorobiphenyl	10.16	172	51672	4.72	ng	0.00
78) Terphenyl-d14	14.83	244	60934	3.90	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.85	128	4041240	244.81	ng	97
37) 2-Methylnaphthalene	9.70	142	1018174	86.85	ng	97
45) 1,1'-Biphenyl	10.28	154	198413	15.35	ng	98
48) Acenaphthylene	10.81	152	122914	7.66	ng	# 92
51) Acenaphthene	11.03	154	444033	46.36	ng	99
54) Dibenzofuran	11.24	168	77157	5.22	ng	# 96
57) Fluorene	11.66	166	311507m	26.35	ng	
70) Phenanthrene	12.86	178	1394689	75.94	ng	98
71) Anthracene	12.92	178	446355	24.49	ng	99
72) Carbazole	13.13	167	45903	2.65	ng	95
74) Fluoranthene	14.34	202	563220	28.07	ng	100
77) Pyrene	14.62	202	971251	43.49	ng	99
80) Benzo(a)anthracene	16.10	228	343236m	16.04	ng	
82) Chrysene	16.14	228	267723	13.32	ng	98
85) Indeno(1,2,3-cd)pyrene	19.23	276	80752	3.52	ng	96
87) Benzo(b)fluoranthene	17.38	252	208276m	11.12	ng	
88) Benzo(k)fluoranthene	17.40	252	43776m	2.38	ng	
89) Benzo(a)pyrene	17.74	252	224540	12.58	ng	99
91) Benzo(g,h,i)perylene	19.65	276	101300	5.90	ng	95

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

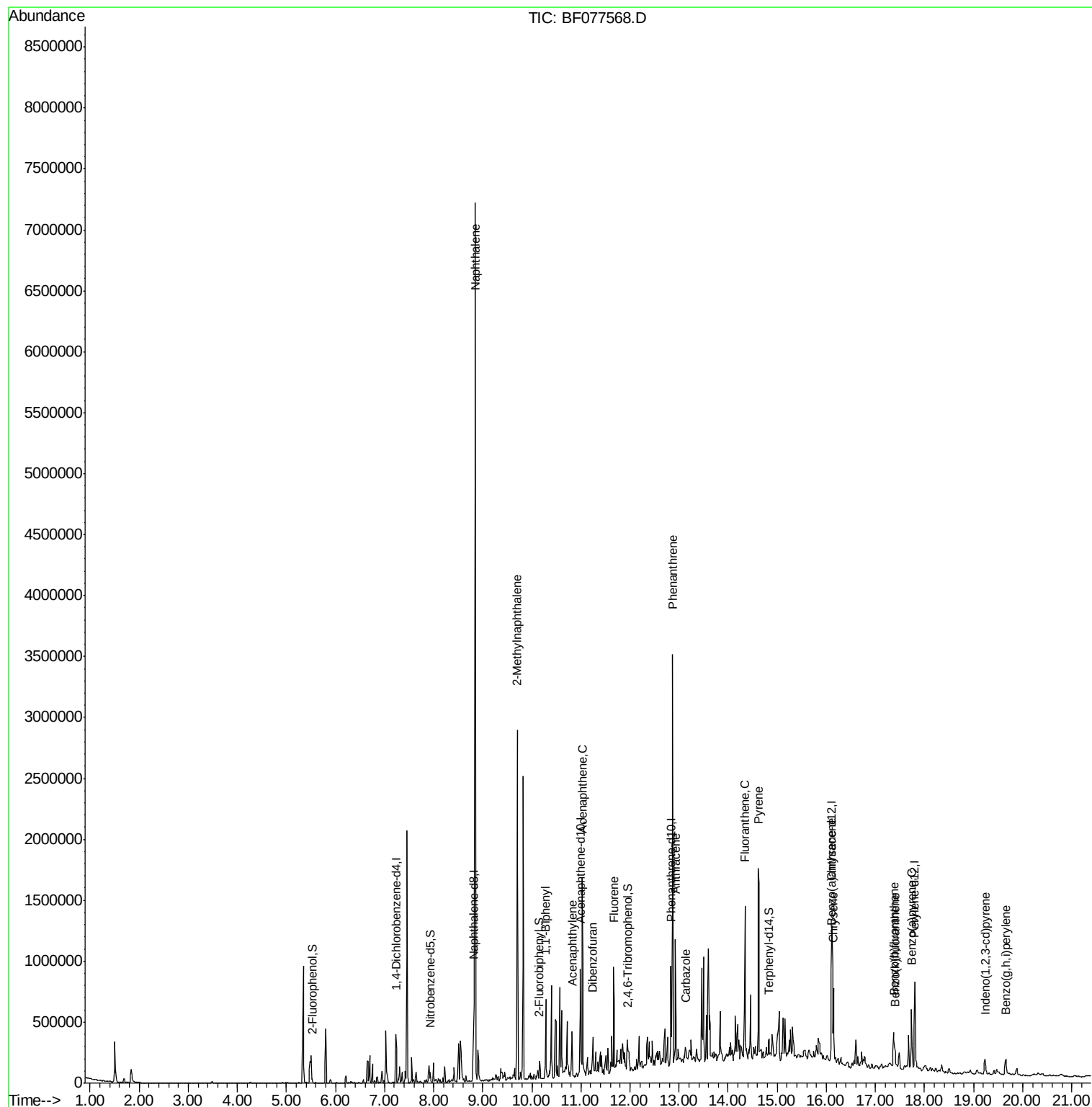
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
Data File : BF077568.D
Acq On : 4 Mar 2015 2:53
Operator : TP/IZ
Sample : G1402-04DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

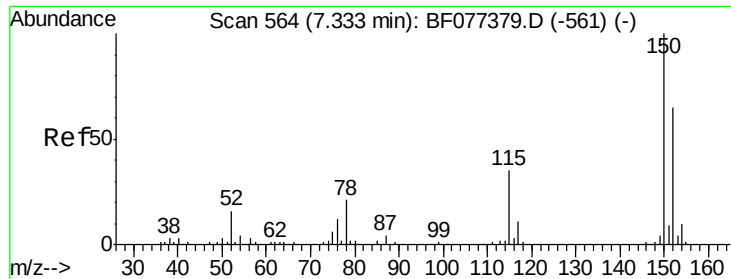
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.24 min Scan# 555

Delta R.T. -0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

ClientSampleId :

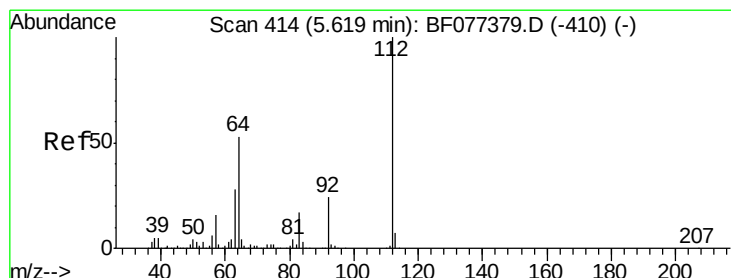
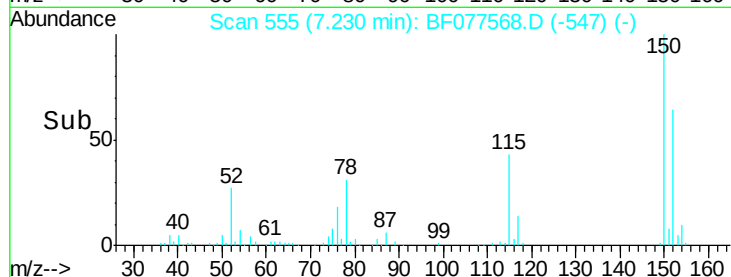
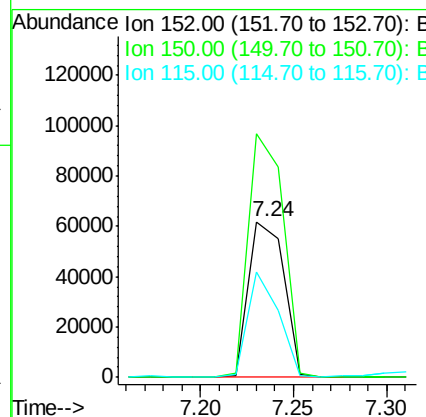
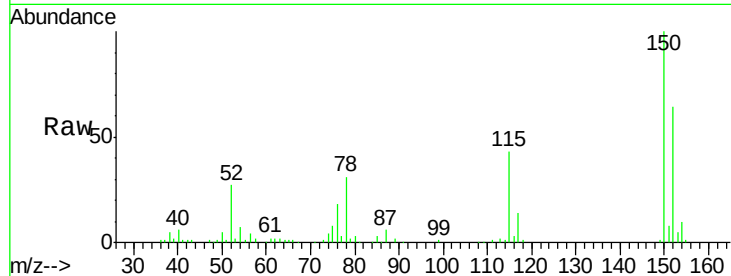
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Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.6	124.0	186.0
115	67.7	49.4	74.2



#5

2-Fluorophenol

Concen: 2.49 ng

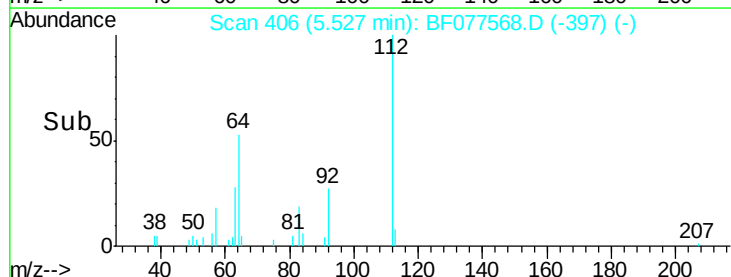
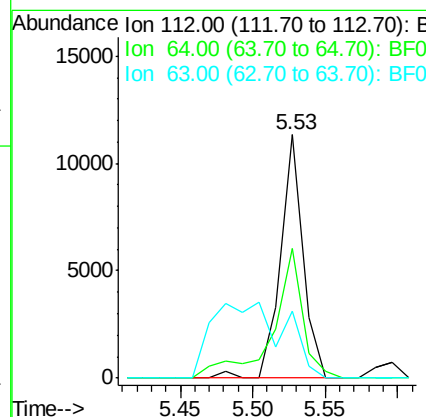
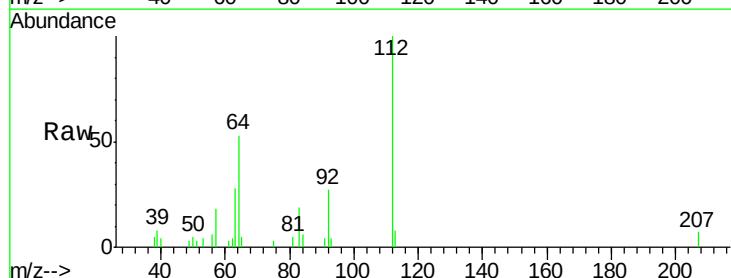
RT: 5.53 min Scan# 406

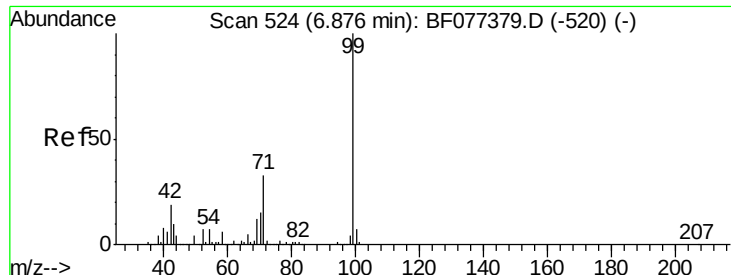
Delta R.T. -0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.3	48.5	72.7
63	27.5	25.0	37.4





#7

Phenol-d6

Concen: 1.42 ng

RT: 6.80 min Scan# 517

Delta R.T. -0.00 min

Lab File: BF077568.D

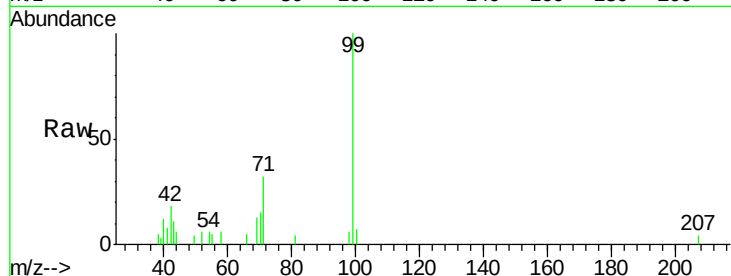
Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

ClientSampleId :

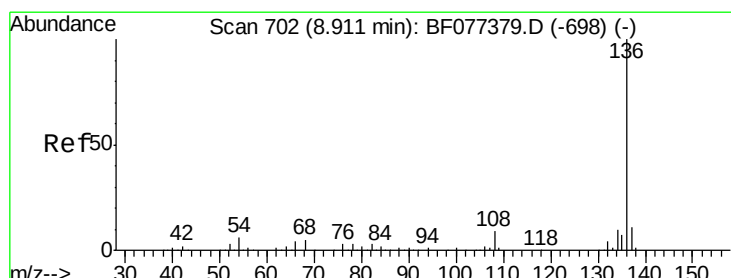
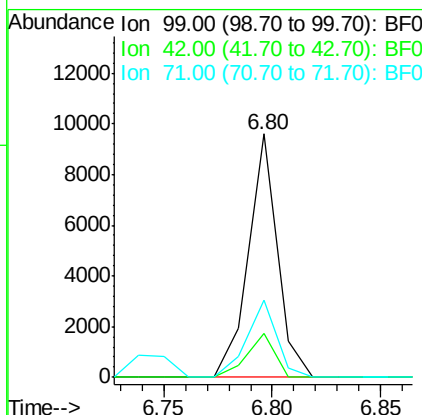
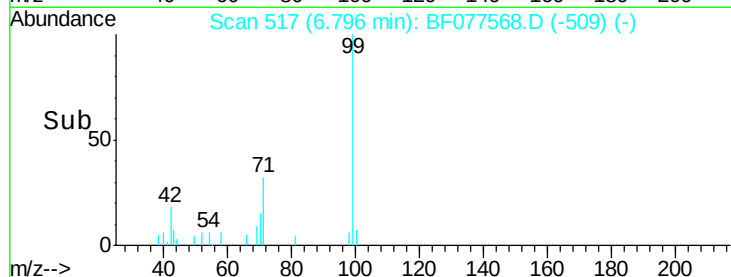
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Tgt Ion:	99	Resp:	8902
Ion Ratio	Lower	Upper	
99	100		
42	18.0	16.2	24.4
71	31.6	26.7	40.1

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#21

Naphthalene-d8

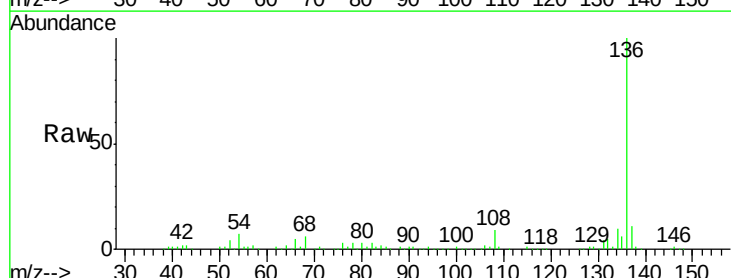
Concen: 20.00 ng

RT: 8.82 min Scan# 694

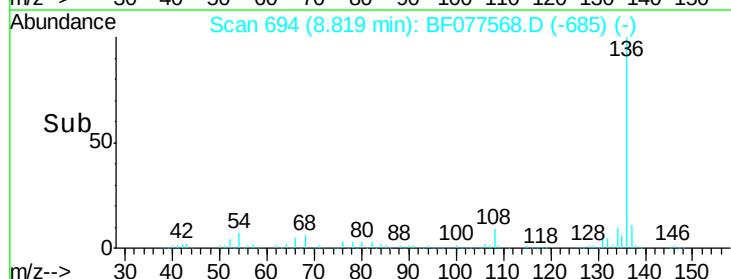
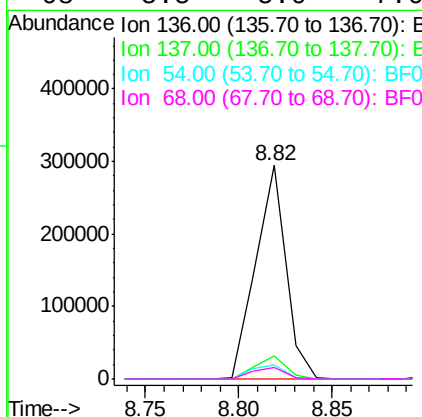
Delta R.T. 0.00 min

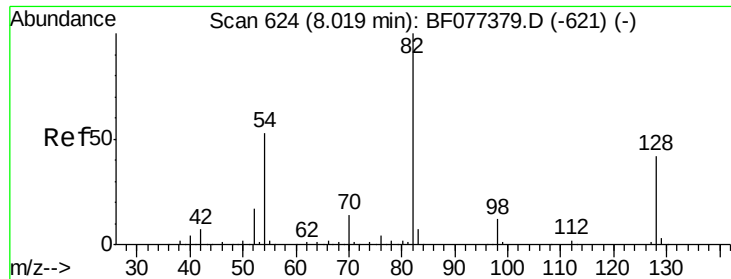
Lab File: BF077568.D

Acq: 4 Mar 2015 2:53



Tgt Ion:	136	Resp:	330104
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.6	13.0
54	6.7	6.2	9.4
68	5.5	5.0	7.6





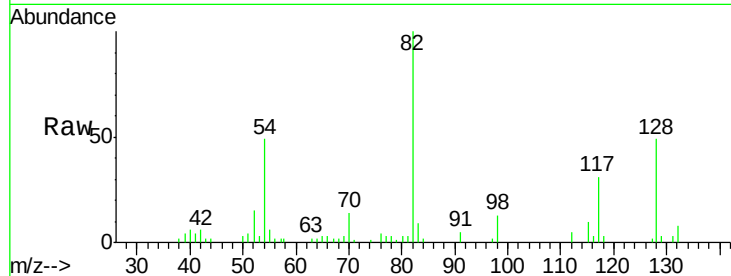
#23
Nitrobenzene-d5
Concen: 4.25 ng
RT: 7.93 min Scan# 616
Delta R.T. -0.00 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Instrument :
BNA_F
ClientSampleId :
MW41DL

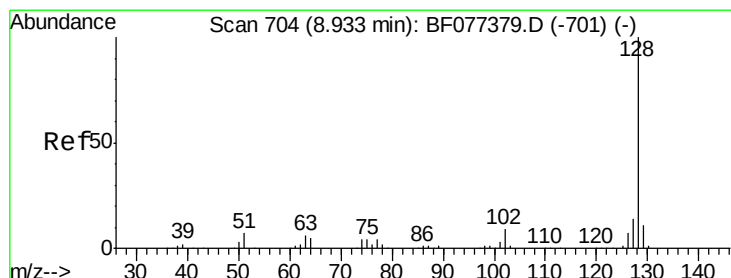
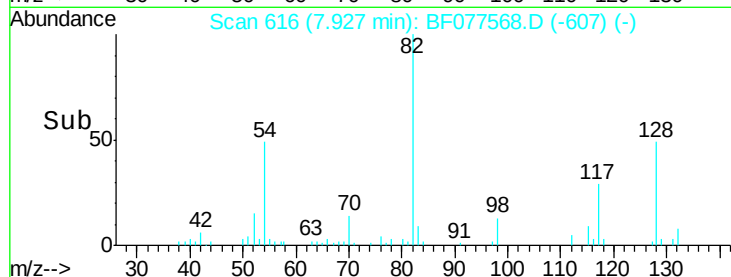
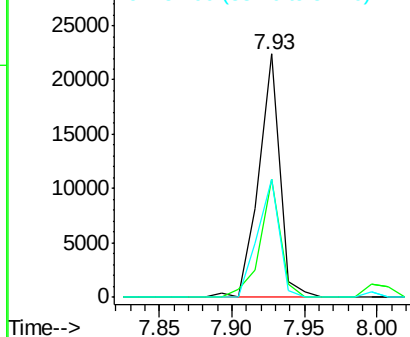
Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.6	43.8	65.8
54	48.7	36.7	55.1

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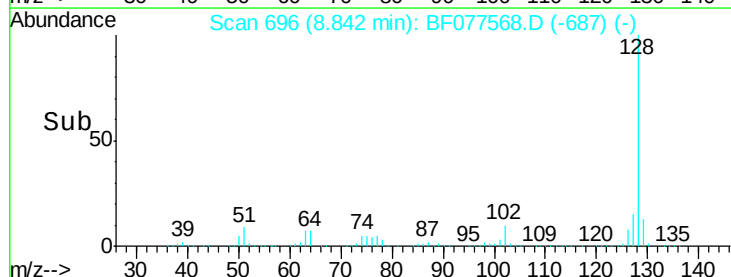
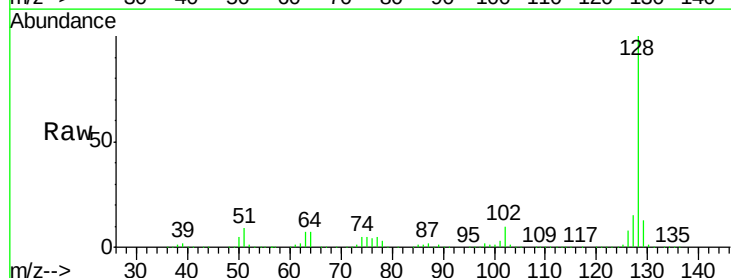
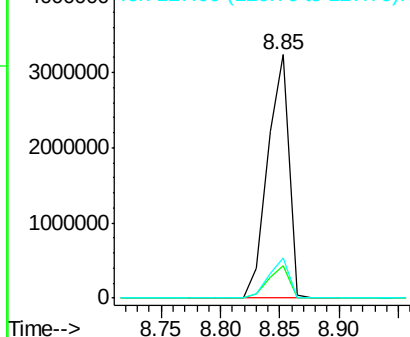
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

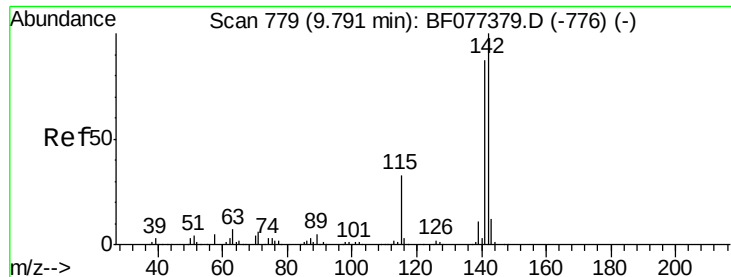


#31
Naphthalene
Concen: 244.81 ng
RT: 8.85 min Scan# 696
Delta R.T. 0.01 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.4	14.0
127	14.7	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: 86.85 ng

RT: 9.70 min Scan# 771

Delta R.T. 0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:142 Resp: 1018174

Ion Ratio Lower Upper

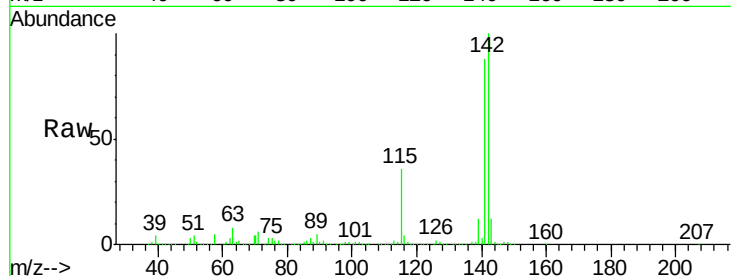
142 100

141 88.3 70.7 106.1

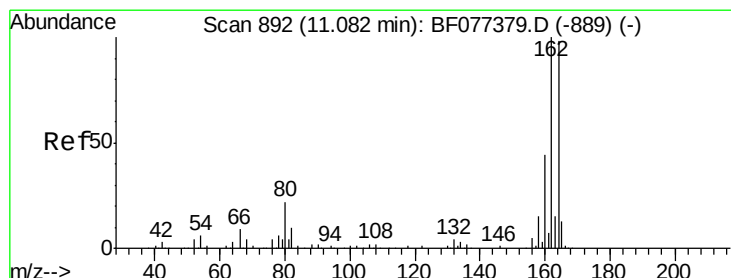
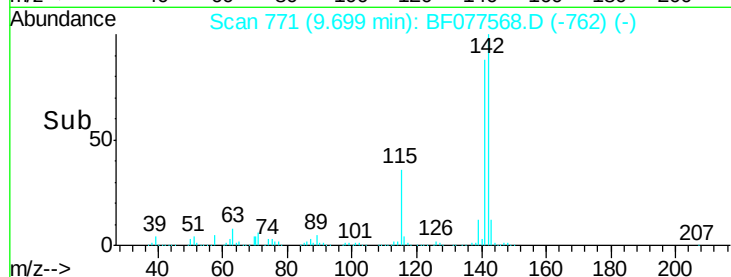
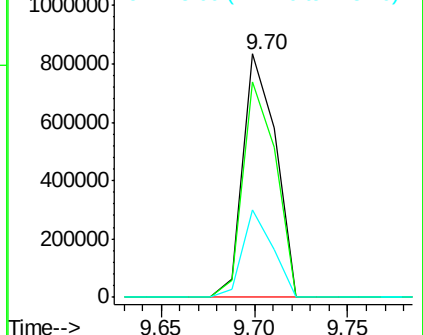
115 35.9 24.2 36.4

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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: BF077568.D

Acq: 4 Mar 2015 2:53

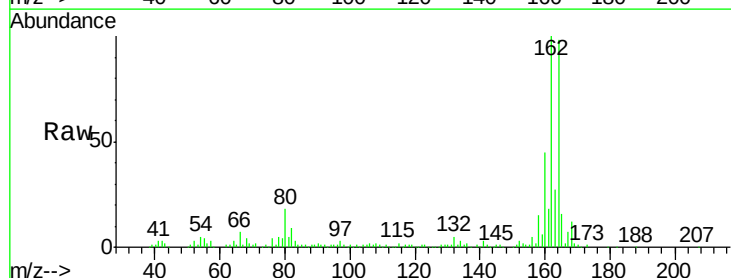
Tgt Ion:164 Resp: 170644

Ion Ratio Lower Upper

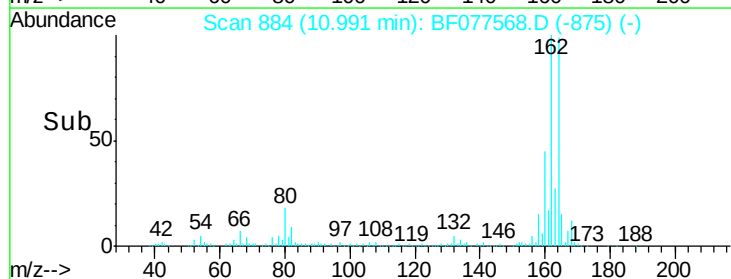
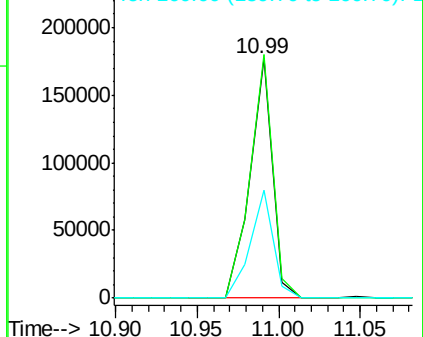
164 100

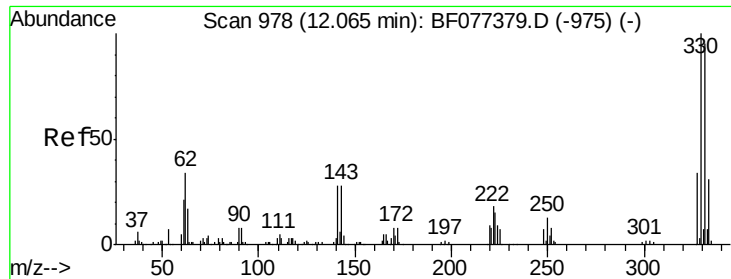
162 101.7 83.2 124.8

160 45.3 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





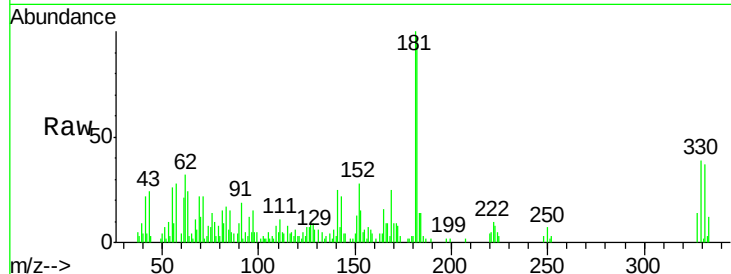
#41
 2,4,6-Tribromophenol
 Concen: 5.27 ng
 RT: 11.97 min Scan# 969
 Delta R.T. -0.00 min
 Lab File: BF077568.D
 Acq: 4 Mar 2015 2:53

Instrument :
 BNA_F
 ClientSampleID :
 MW41DL

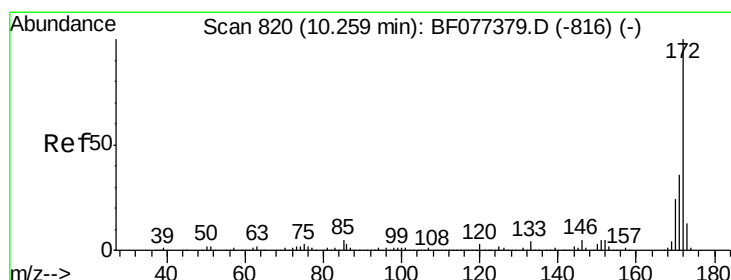
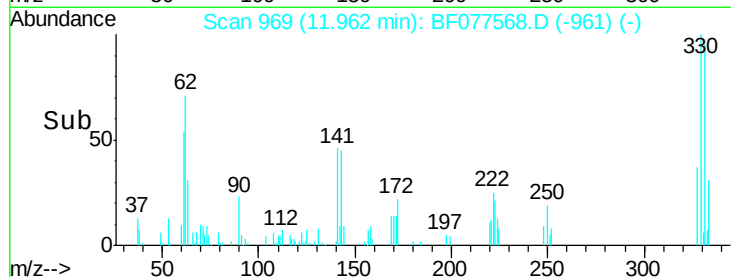
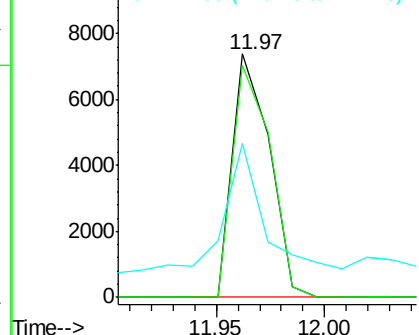
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.4	116.2
141	51.5	28.8	43.2

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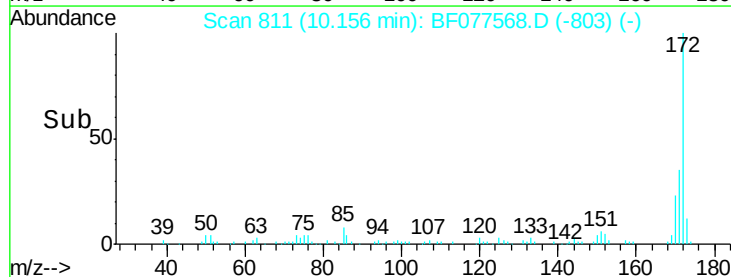
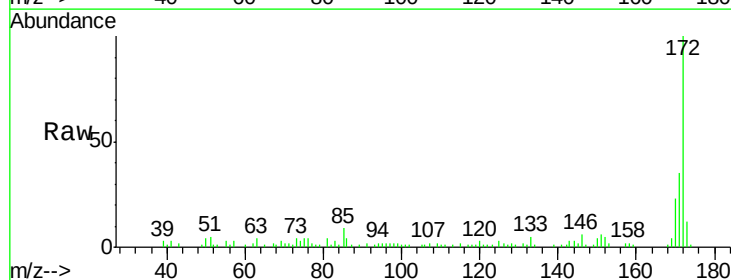
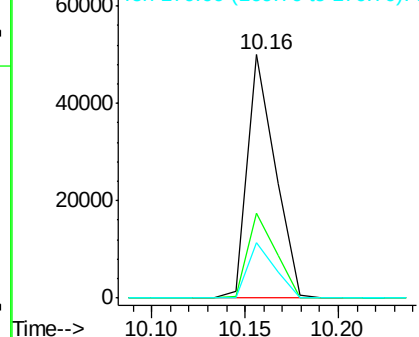
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

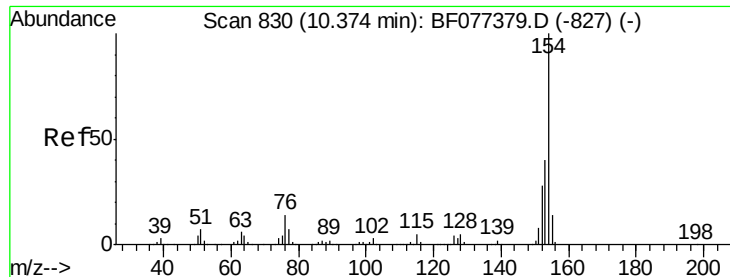


#44
 2-Fluorobiphenyl
 Concen: 4.72 ng
 RT: 10.16 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: BF077568.D
 Acq: 4 Mar 2015 2:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.9	43.3
170	22.7	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





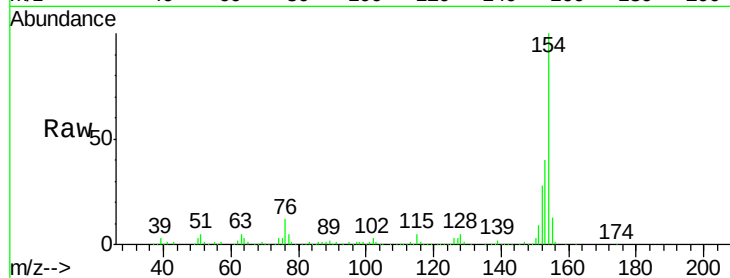
#45
1,1'-Biphenyl
Concen: 15.35 ng
RT: 10.28 min Scan# 822
Delta R.T. -0.00 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Instrument :
BNA_F
ClientSampleId :
MW41DL

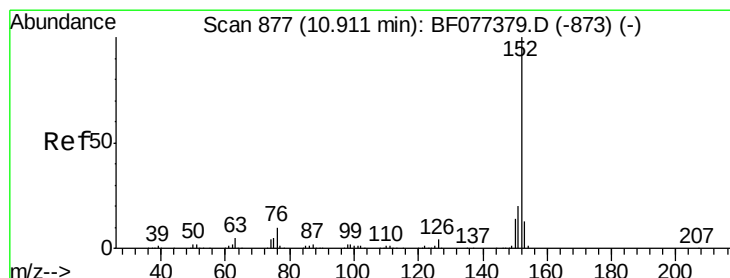
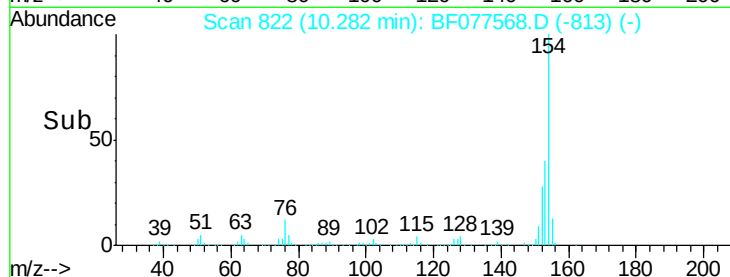
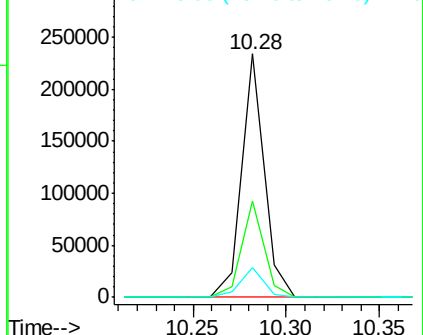
Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	39.6	20.2	60.2
76	12.1	0.0	29.4

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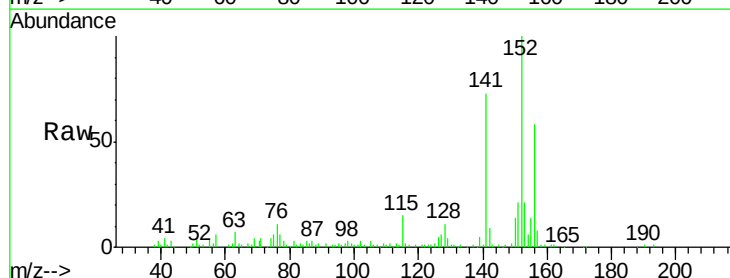


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

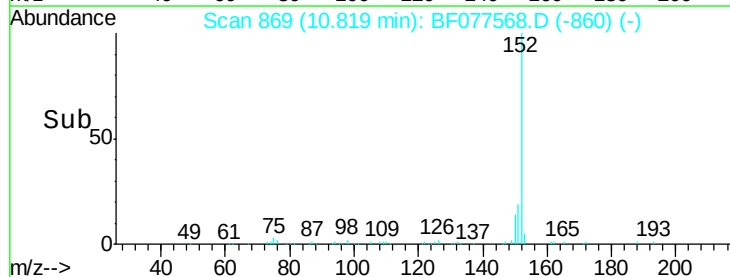
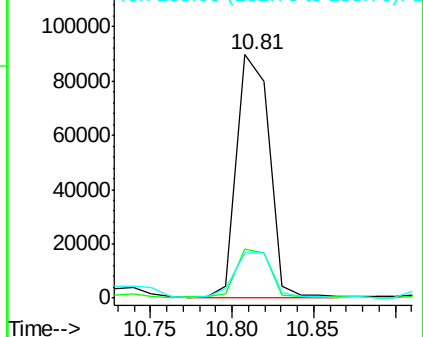


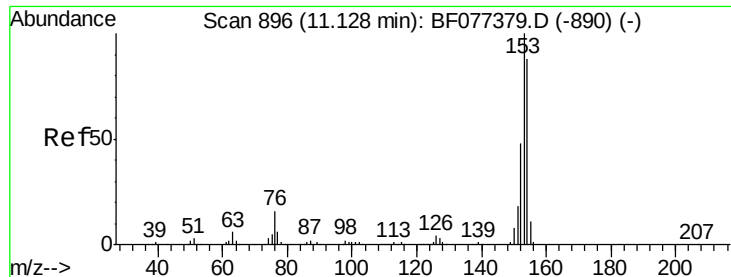
#48
Acenaphthylene
Concen: 7.66 ng
RT: 10.81 min Scan# 869
Delta R.T. -0.00 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	20.8	16.1	24.1
153	20.8	10.9	16.3#



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: 46.36 ng

RT: 11.03 min Scan# 887

Delta R.T. -0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

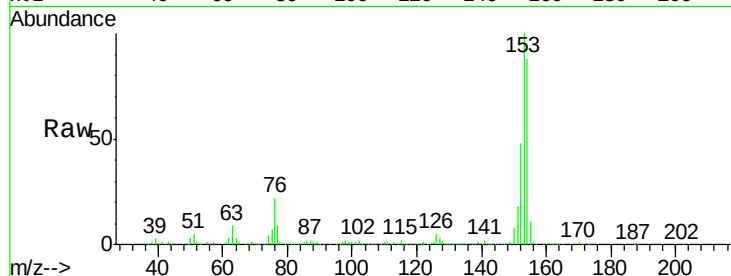
ClientSampleId :

MW41DL

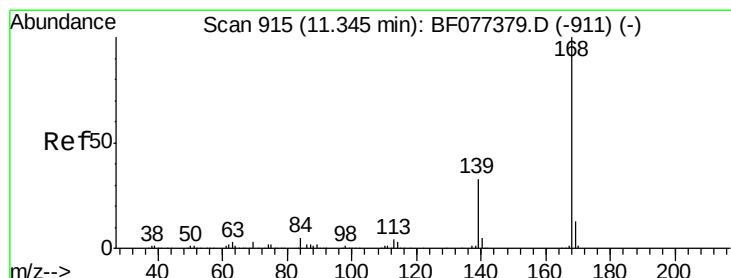
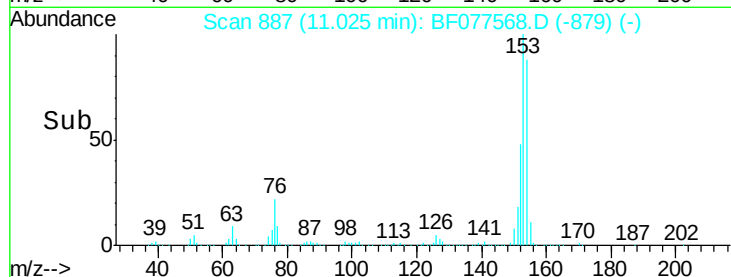
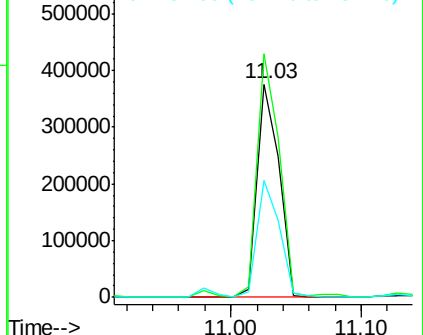
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Tgt Ion:	154	Resp:	444033
Ion Ratio	Lower	Upper	
154	100		
153	114.1	90.5	135.7
152	54.6	43.5	65.3



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 5.22 ng

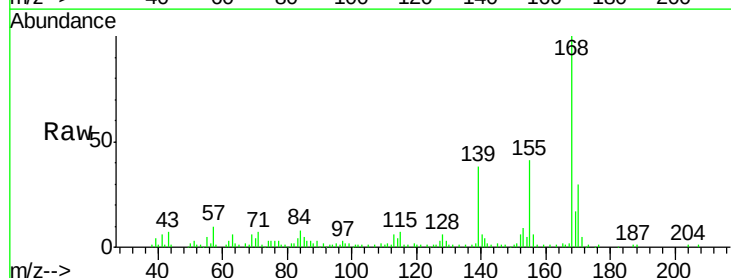
RT: 11.24 min Scan# 906

Delta R.T. -0.00 min

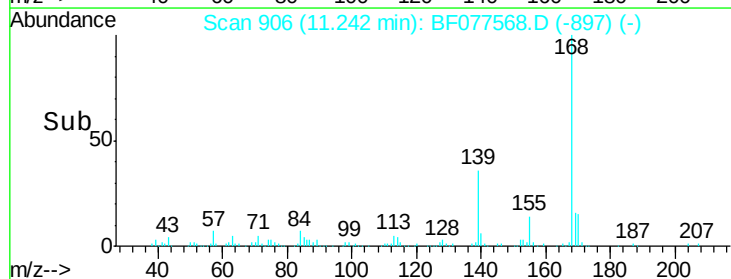
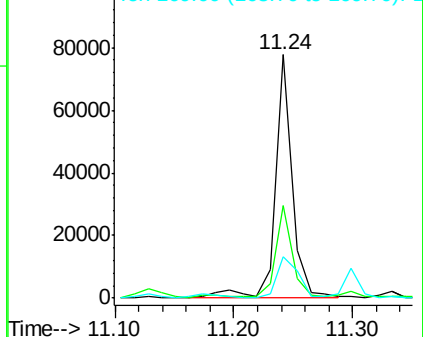
Lab File: BF077568.D

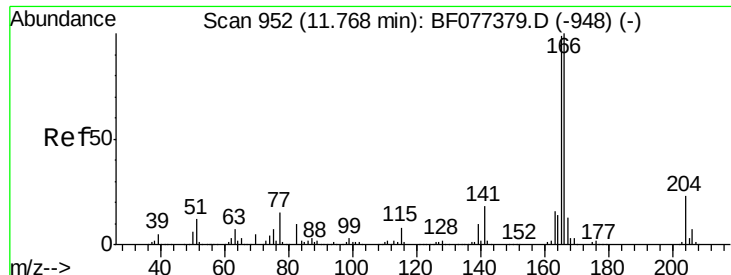
Acq: 4 Mar 2015 2:53

Tgt Ion:	168	Resp:	77157
Ion Ratio	Lower	Upper	
168	100		
139	38.1	29.3	43.9
169	17.1	10.9	16.3#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





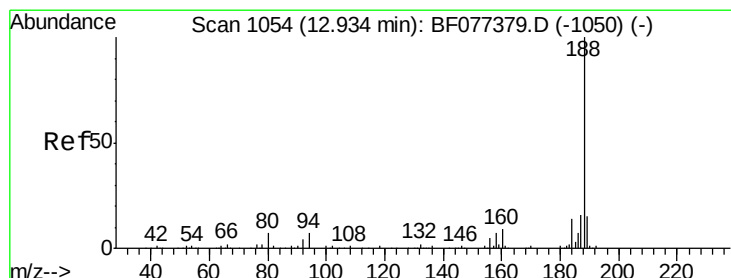
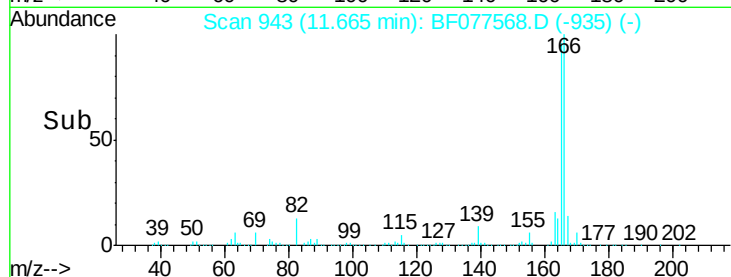
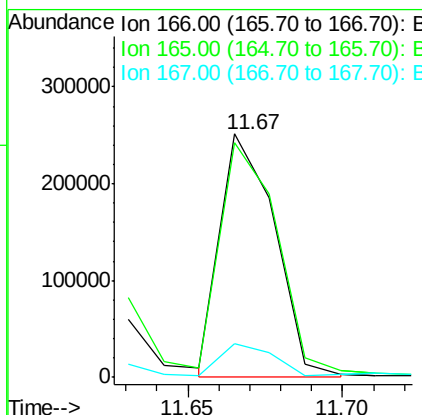
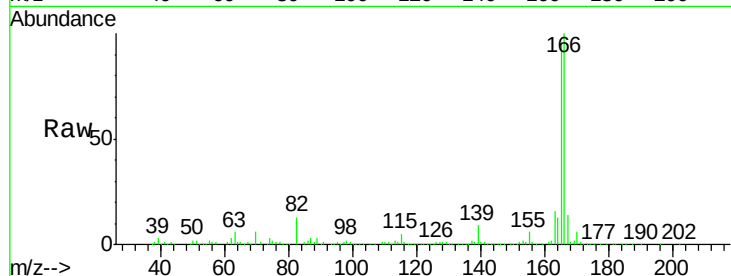
#57
Fluorene
Concen: 26.35 ng m
RT: 11.66 min Scan# 943
Delta R.T. -0.00 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Instrument :
BNA_F
ClientSampleId :
MW41DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	311507		
165	96.1	77.6	116.4	
167	14.0	10.6	16.0	

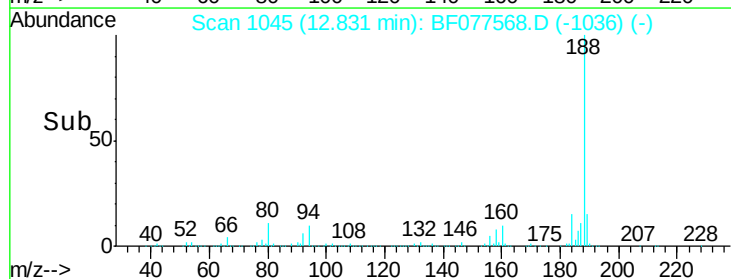
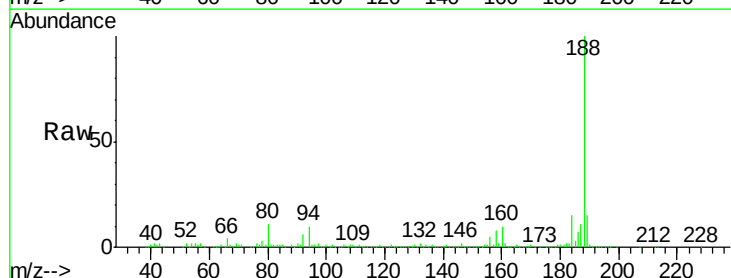
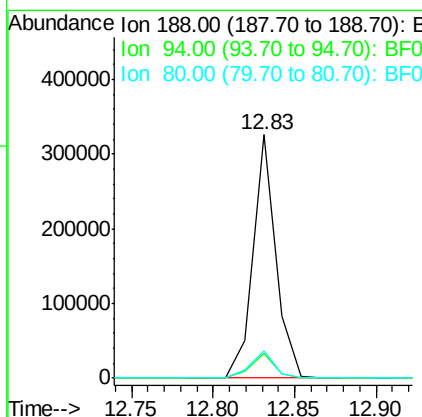
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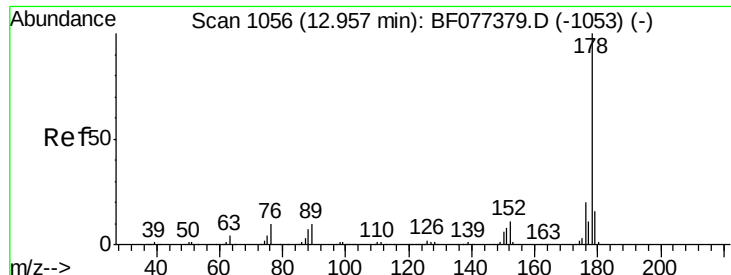
mohammad
3/4/2015 4:42:14 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.83 min Scan# 1045
Delta R.T. 0.00 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	316870		
94	10.3	7.4	11.2	
80	11.1	8.0	12.0	





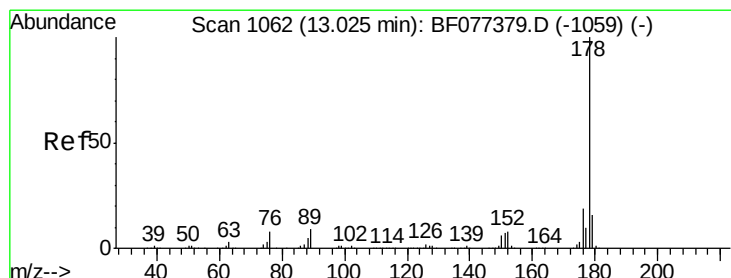
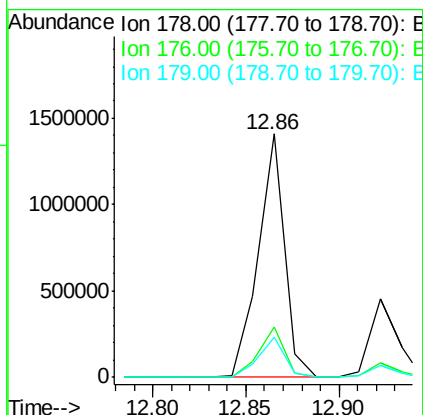
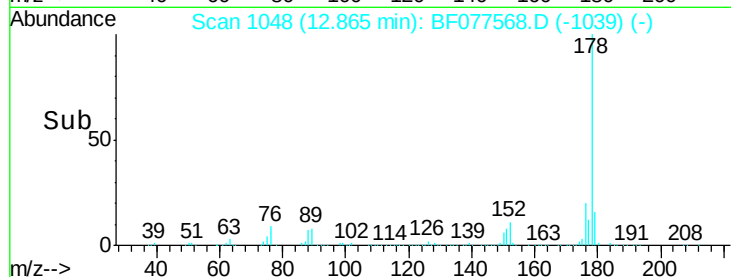
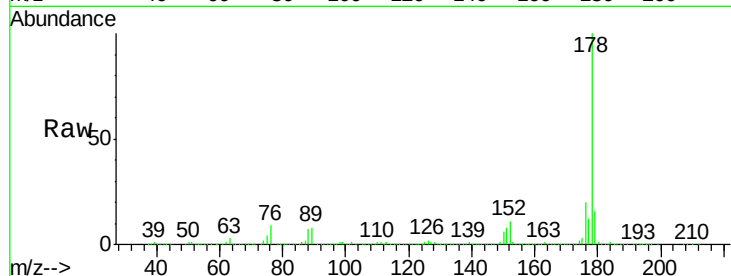
#70
Phenanthrene
Concen: 75.94 ng
RT: 12.86 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Instrument :
BNA_F
ClientSampleId :
MW41DL

Tgt Ion:178 Resp: 1394689
Ion Ratio Lower Upper
178 100
176 20.5 15.5 23.3
179 16.2 12.2 18.2

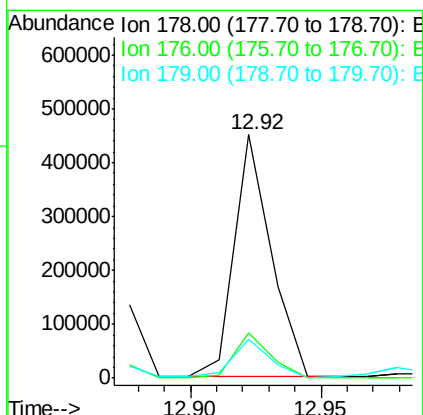
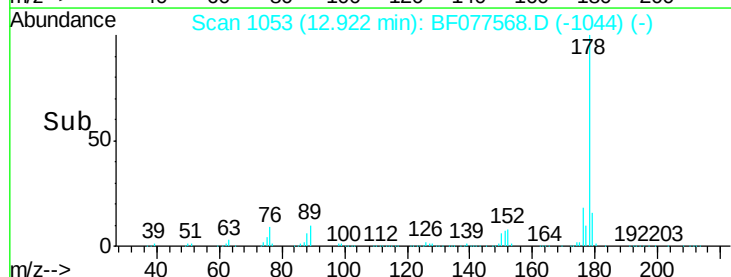
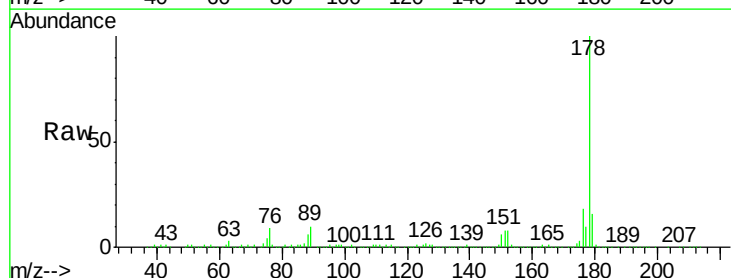
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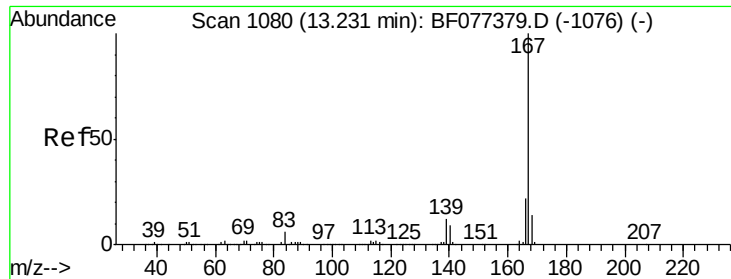
mohammad
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#71
Anthracene
Concen: 24.49 ng
RT: 12.92 min Scan# 1053
Delta R.T. 0.00 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Tgt Ion:178 Resp: 446355
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.0
179 15.9 12.9 19.3





#72

Carbazole

Concen: 2.65 ng

RT: 13.13 min Scan# 1071

Delta R.T. -0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

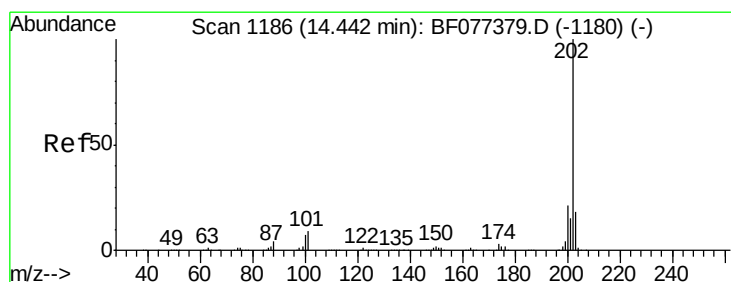
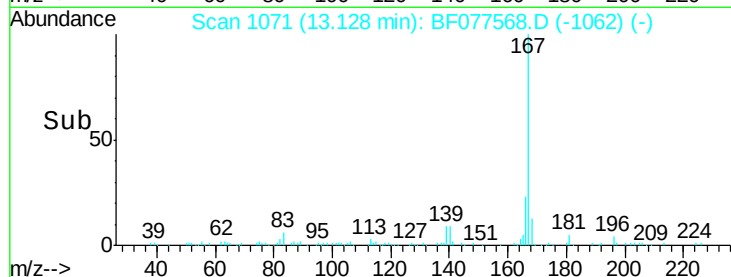
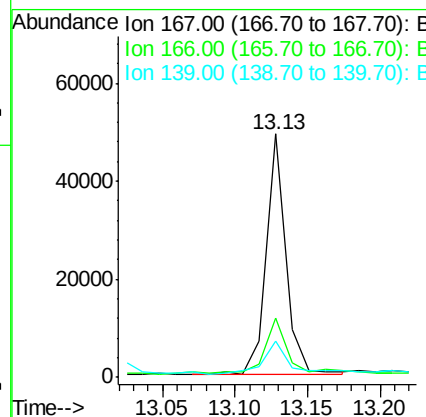
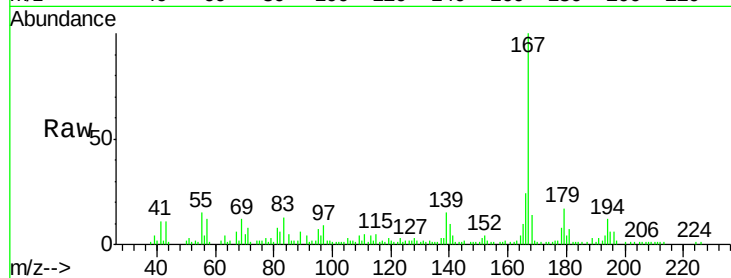
ClientSampleId :

MW41DL

Tgt Ion:	167	Resp:	45903
Ion Ratio	Lower	Upper	
167	100		
166	24.2	17.6	26.4
139	14.7	9.9	14.9

Manual Integrations
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#74

Fluoranthene

Concen: 28.07 ng

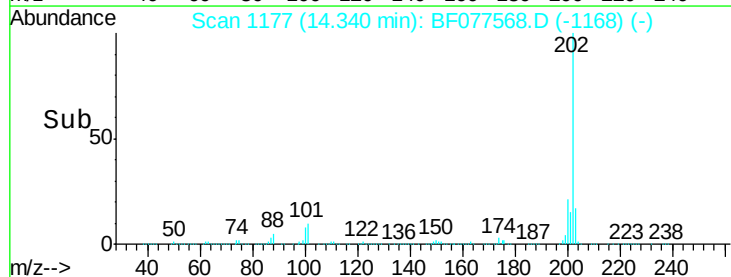
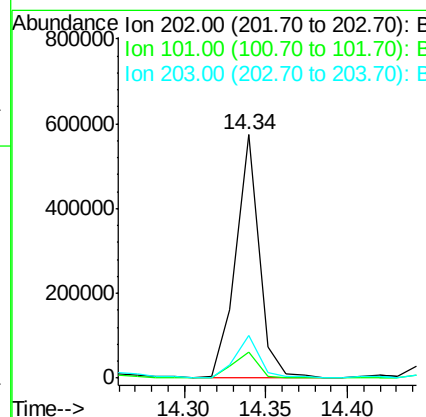
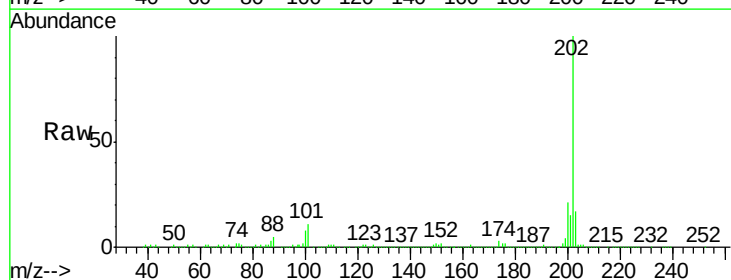
RT: 14.34 min Scan# 1177

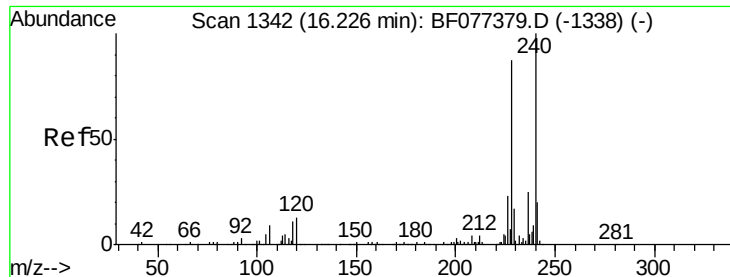
Delta R.T. 0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Tgt Ion:	202	Resp:	563220
Ion Ratio	Lower	Upper	
202	100		
101	10.7	0.0	30.8
203	17.5	0.0	37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.12 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

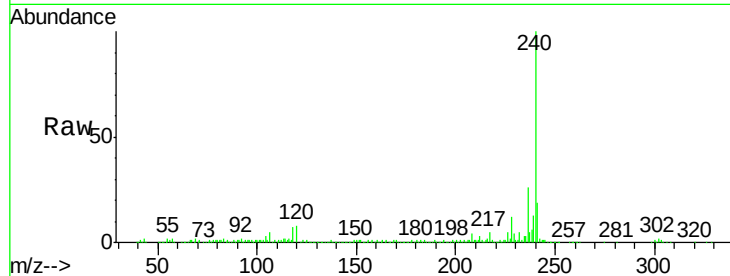
ClientSampleId :

MW41DL

Tgt Ion:	240	Resp:	365089
Ion Ratio	Lower	Upper	
240	100		
120	7.9	8.8	13.2#
236	25.9	20.7	31.1

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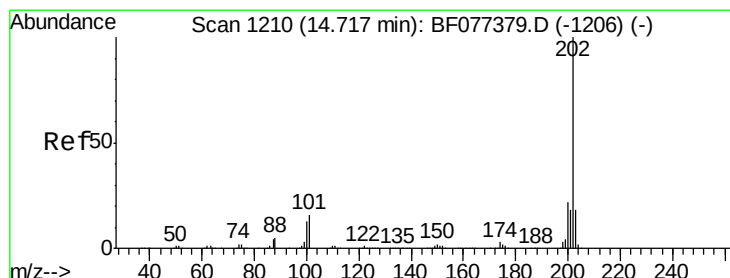
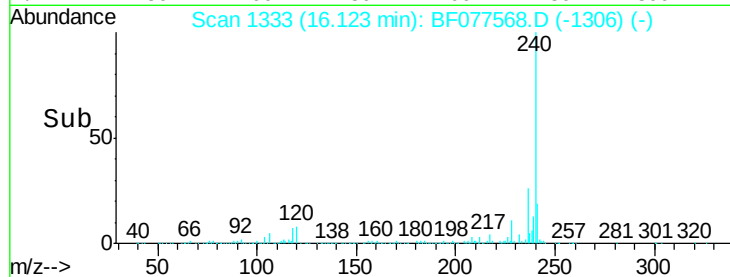
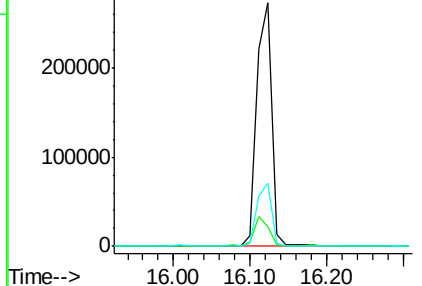
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 43.49 ng

RT: 14.62 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BF077568.D

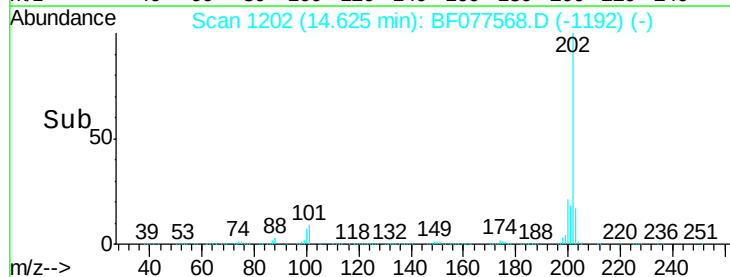
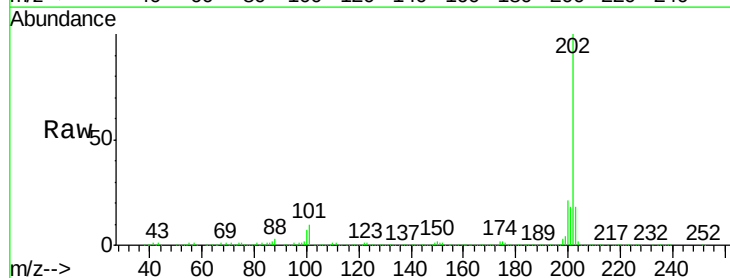
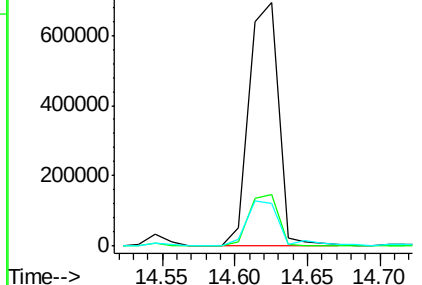
Acq: 4 Mar 2015 2:53

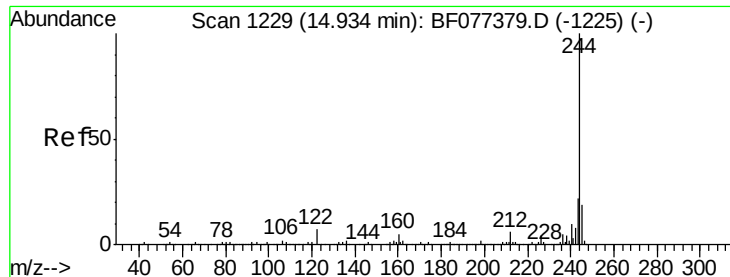
Tgt Ion:	202	Resp:	971251
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.1	25.7
203	17.5	14.2	21.2

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.90 ng

RT: 14.83 min Scan# 1220

Delta R.T. -0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

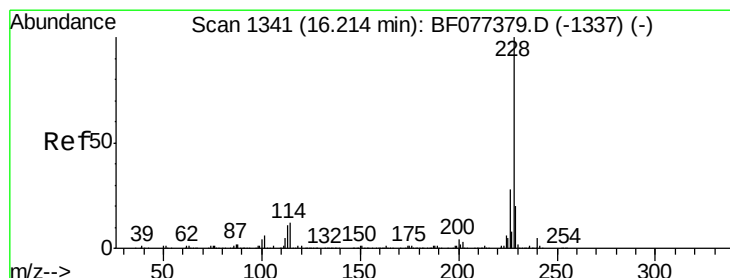
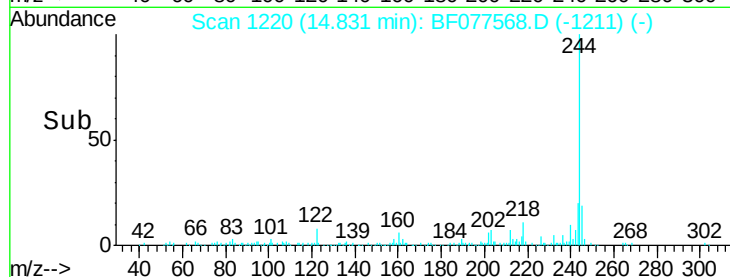
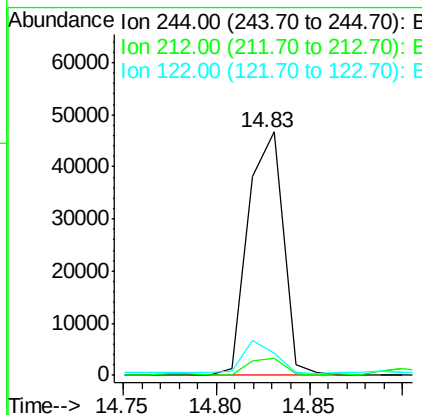
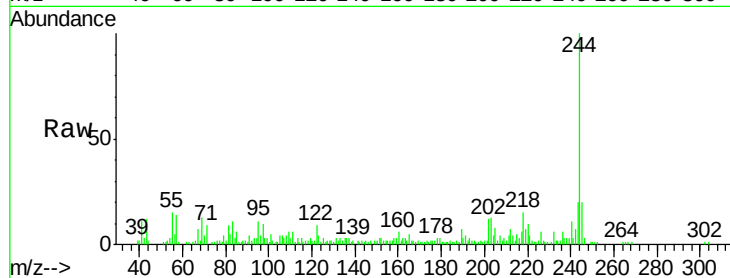
ClientSampleId :

MW41DL

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Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.2	7.8
122	9.3	7.8	11.8



#80

Benzo(a)anthracene

Concen: 16.04 ng m

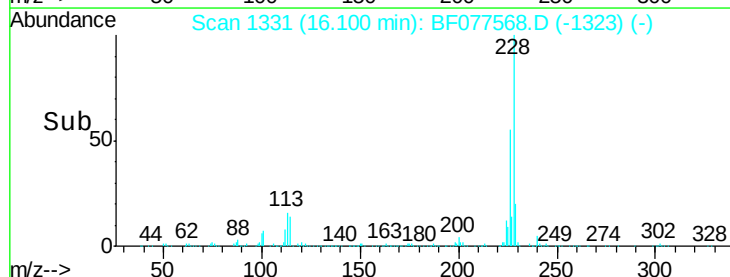
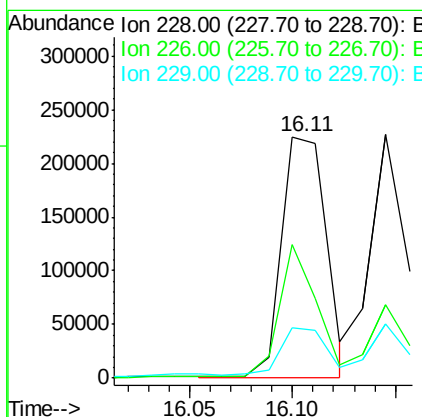
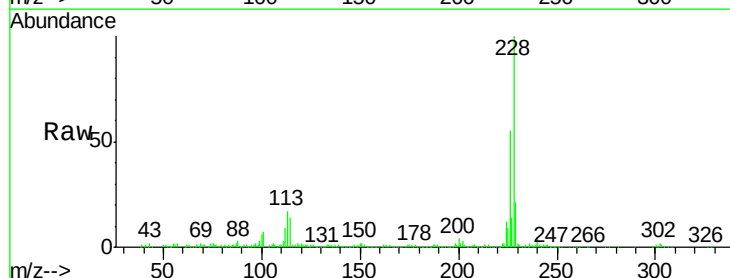
RT: 16.10 min Scan# 1331

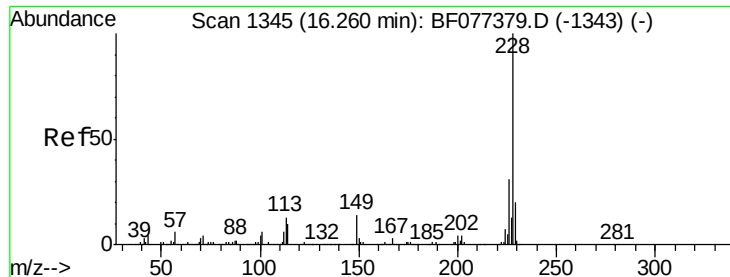
Delta R.T. -0.01 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	55.1	22.0	33.0#
229	20.8	15.8	23.8





#82

Chrysene

Concen: 13.32 ng

RT: 16.14 min Scan# 1335

Delta R.T. -0.00 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

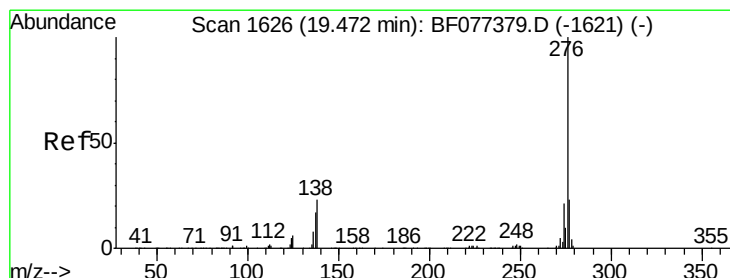
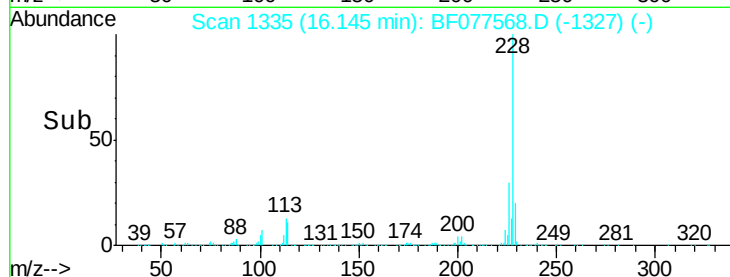
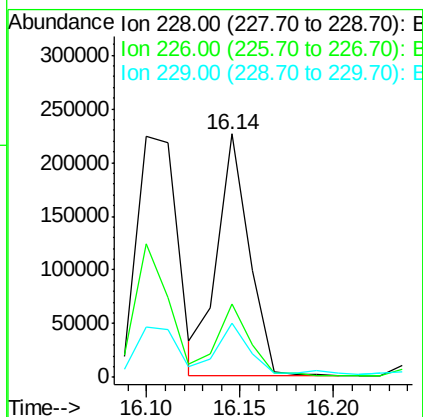
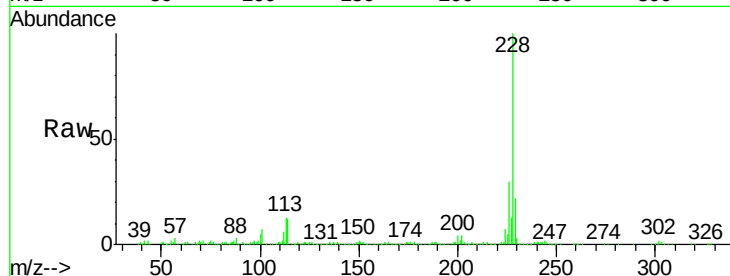
ClientSampleId :

MW41DL

Tgt Ion:	228	Resp:	267723
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.9	37.3
229	22.1	16.4	24.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 3.52 ng

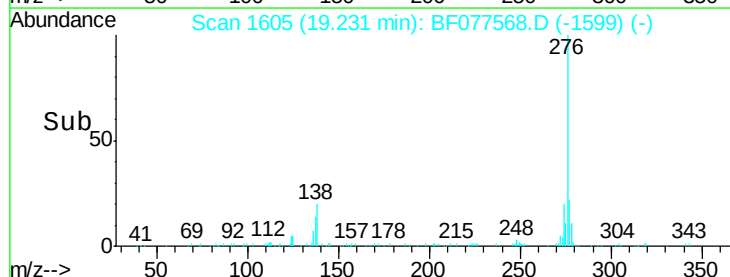
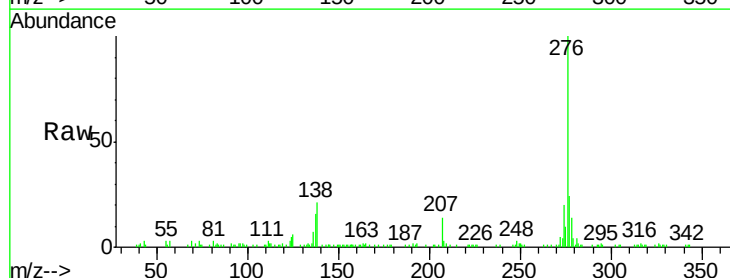
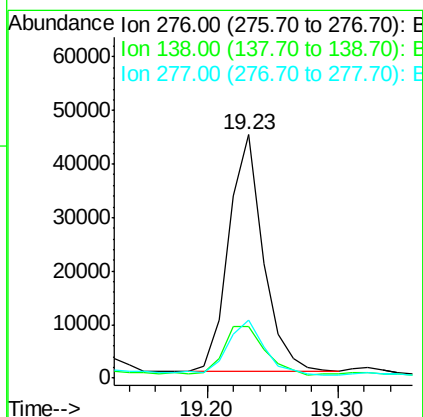
RT: 19.23 min Scan# 1605

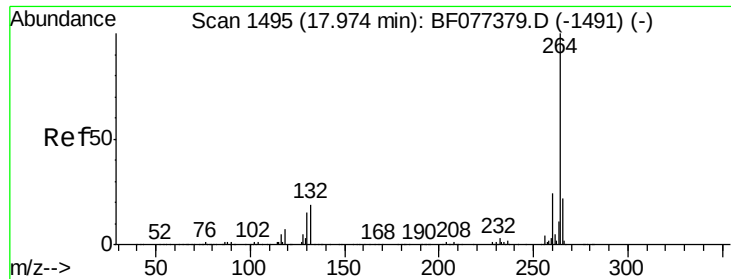
Delta R.T. -0.04 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Tgt Ion:	276	Resp:	80752
Ion Ratio	Lower	Upper	
276	100		
138	23.7	21.2	31.8
277	23.9	20.0	30.0





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.80 min Scan# 1480

Delta R.T. -0.02 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Instrument :

BNA_F

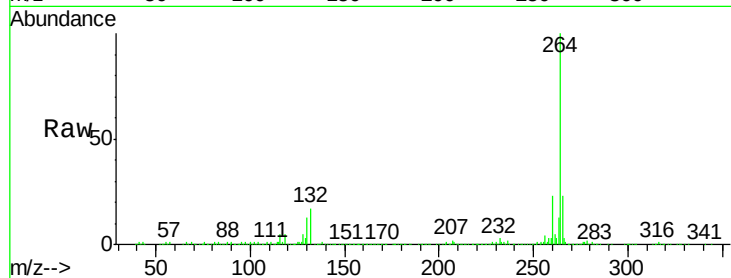
ClientSampleId :

MW41DL

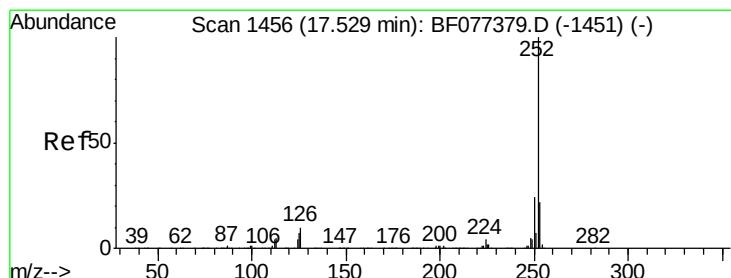
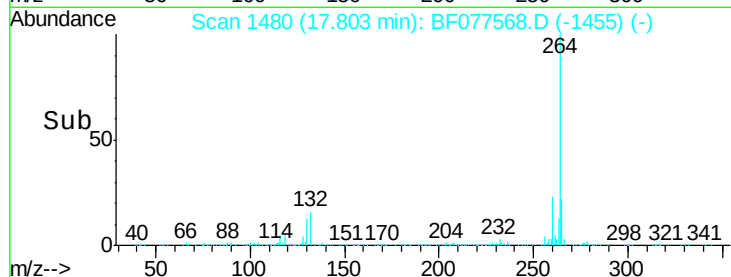
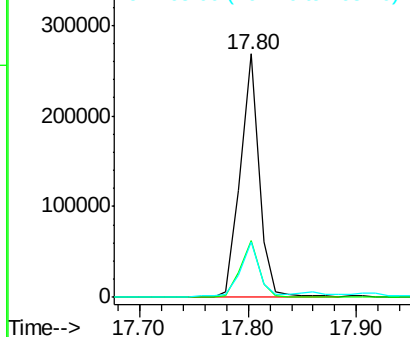
Tgt Ion:	264	Resp:	322161
Ion Ratio		Lower	Upper
264	100		
260	23.2	19.3	28.9
265	22.6	16.8	25.2

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 11.12 ng m

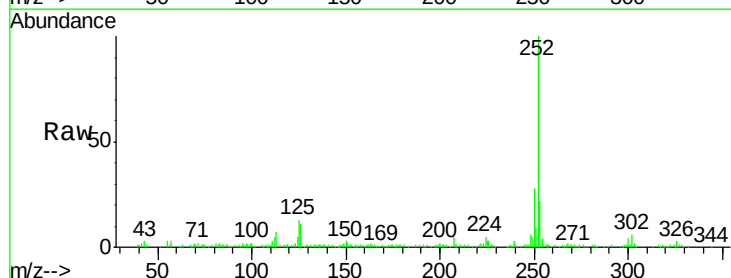
RT: 17.38 min Scan# 1443

Delta R.T. -0.01 min

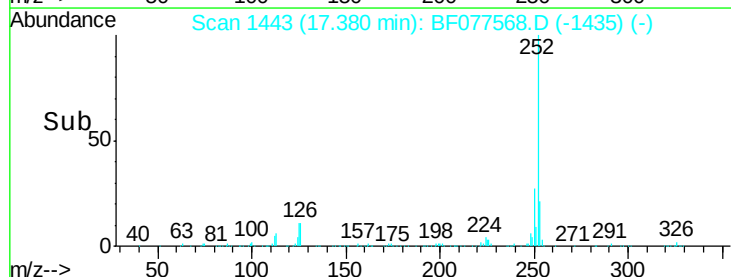
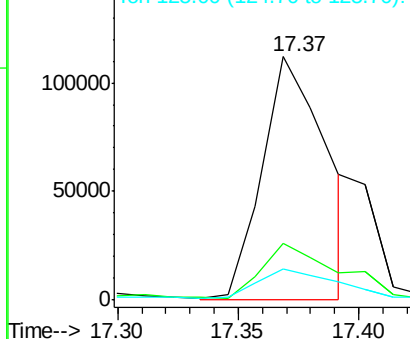
Lab File: BF077568.D

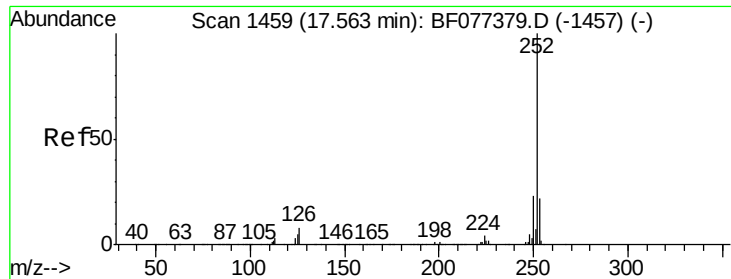
Acq: 4 Mar 2015 2:53

Tgt Ion:	252	Resp:	208276
Ion Ratio		Lower	Upper
252	100		
253	22.4	17.6	26.4
125	12.7	5.4	8.2#



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





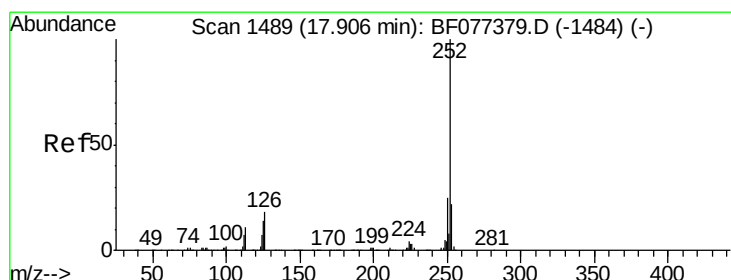
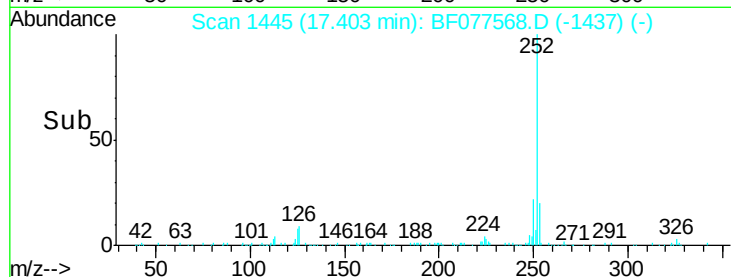
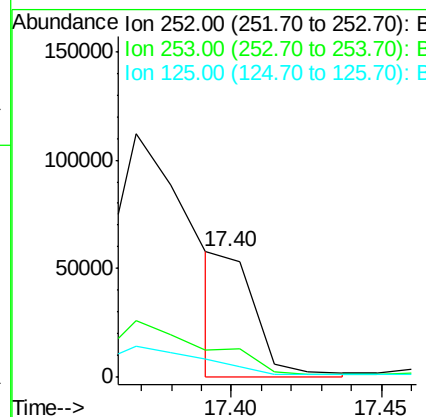
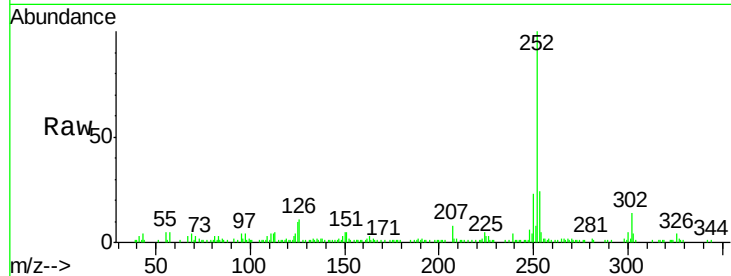
#88
Benzo(k)fluoranthene
Concen: 2.38 ng m
RT: 17.40 min Scan# 1445
Delta R.T. -0.01 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Instrument :
BNA_F
ClientSampleId :
MW41DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.1	27.1
125	9.7	10.1	15.1#

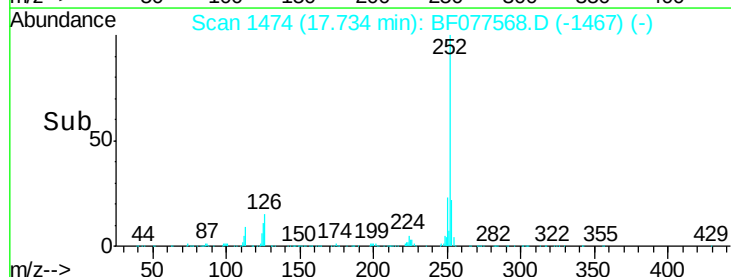
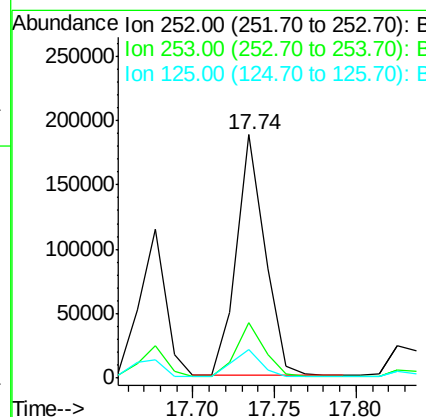
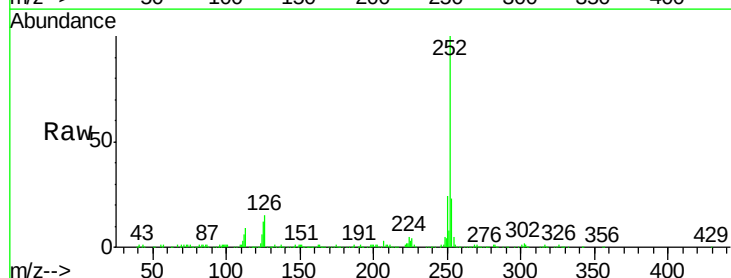
Manual Integrations
APPROVED

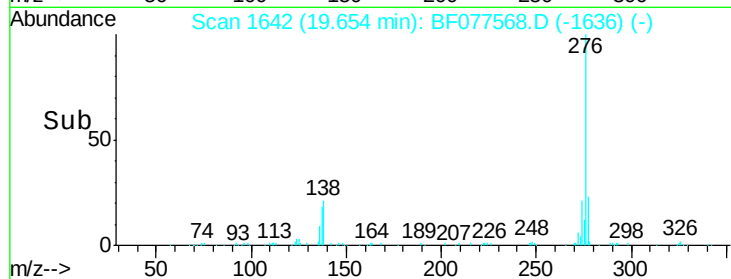
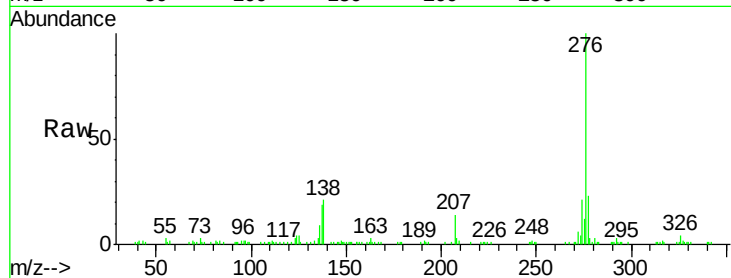
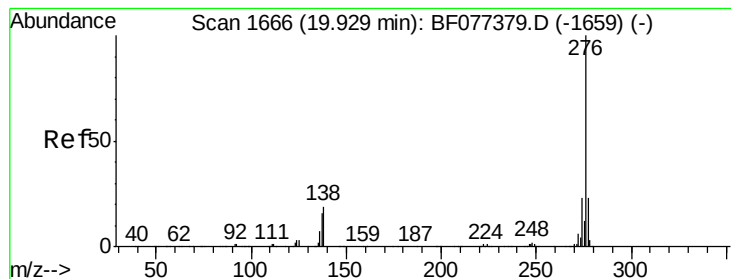
mohammad
3/4/2015 4:42:14 PM



#89
Benzo(a)pyrene
Concen: 12.58 ng
RT: 17.74 min Scan# 1474
Delta R.T. -0.02 min
Lab File: BF077568.D
Acq: 4 Mar 2015 2:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	11.7	8.3	12.5





#91

Benzo(g,h,i)perylene

Concen: 5.90 ng

RT: 19.65 min Scan# 1642

Delta R.T. -0.03 min

Lab File: BF077568.D

Acq: 4 Mar 2015 2:53

Tgt Ion:	276	Resp:	101300
Ion Ratio		Lower	Upper
276	100		
277	23.4	18.9	28.3
138	21.3	20.5	30.7

Instrument :

BNA_F

ClientSampleId :

MW41DL

Manual Integrations
APPROVED

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