

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030215\
 Data File : BF077539.D
 Acq On : 2 Mar 2015 23:12
 Operator : TP/IZ
 Sample : G1402-05 20X
 Misc : S
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW44

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Quant Time: Mar 03 06:15:46 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 02 23:46:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.26	152	59140	20.00	ng	0.00
21) Naphthalene-d8	8.85	136	229891	20.00	ng	0.01
38) Acenaphthene-d10	11.01	164	114483	20.00	ng	0.00
63) Phenanthrene-d10	12.86	188	222248	20.00	ng	0.01
75) Chrysene-d12	16.15	240	244309	20.00	ng	0.02
86) Perylene-d12	17.89	264	217383	20.00	ng	0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.55	112	2133	0.60	ng	0.00
7) Phenol-d6	6.82	99	1779	0.39	ng	0.00
23) Nitrobenzene-d5	7.94	82	7173	1.94	ng	0.00
41) 2,4,6-Tribromophenol	11.99	330	1458	1.32	ng	0.00
44) 2-Fluorobiphenyl	10.18	172	12939	1.76	ng	0.00
78) Terphenyl-d14	14.85	244	15143	1.45	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.88	128	7767920	675.68	ng	# 89
37) 2-Methylnaphthalene	9.74	142	2827652	346.35	ng	# 96
45) 1,1'-Biphenyl	10.31	154	673980	77.71	ng	97
48) Acenaphthylene	10.84	152	425146	39.48	ng	# 94
51) Acenaphthene	11.06	154	1182268	183.98	ng	99
54) Dibenzofuran	11.27	168	158533	15.98	ng	# 87
57) Fluorene	11.70	166	962032m	121.28	ng	
70) Phenanthrene	12.90	178	3862366	299.84	ng	93
71) Anthracene	12.96	178	1436502	112.38	ng	99
72) Carbazole	13.16	167	48599	4.00	ng	# 80
74) Fluoranthene	14.37	202	1841448	130.87	ng	96
77) Pyrene	14.66	202	2681958	179.46	ng	95
80) Benzo(a)anthracene	16.15	228	1316139	91.92	ng	# 81
82) Chrysene	16.19	228	948403	70.54	ng	98
85) Indeno(1,2,3-cd)pyrene	19.36	276	304303m	19.85	ng	
87) Benzo(b)fluoranthene	17.45	252	811389m	64.19	ng	
88) Benzo(k)fluoranthene	17.48	252	149434m	12.06	ng	
89) Benzo(a)pyrene	17.83	252	851311	70.71	ng	99
90) Dibenzo(a,h)anthracene	19.37	278	82219	7.16	ng	93
91) Benzo(g,h,i)perylene	19.79	276	360401	31.10	ng	98

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

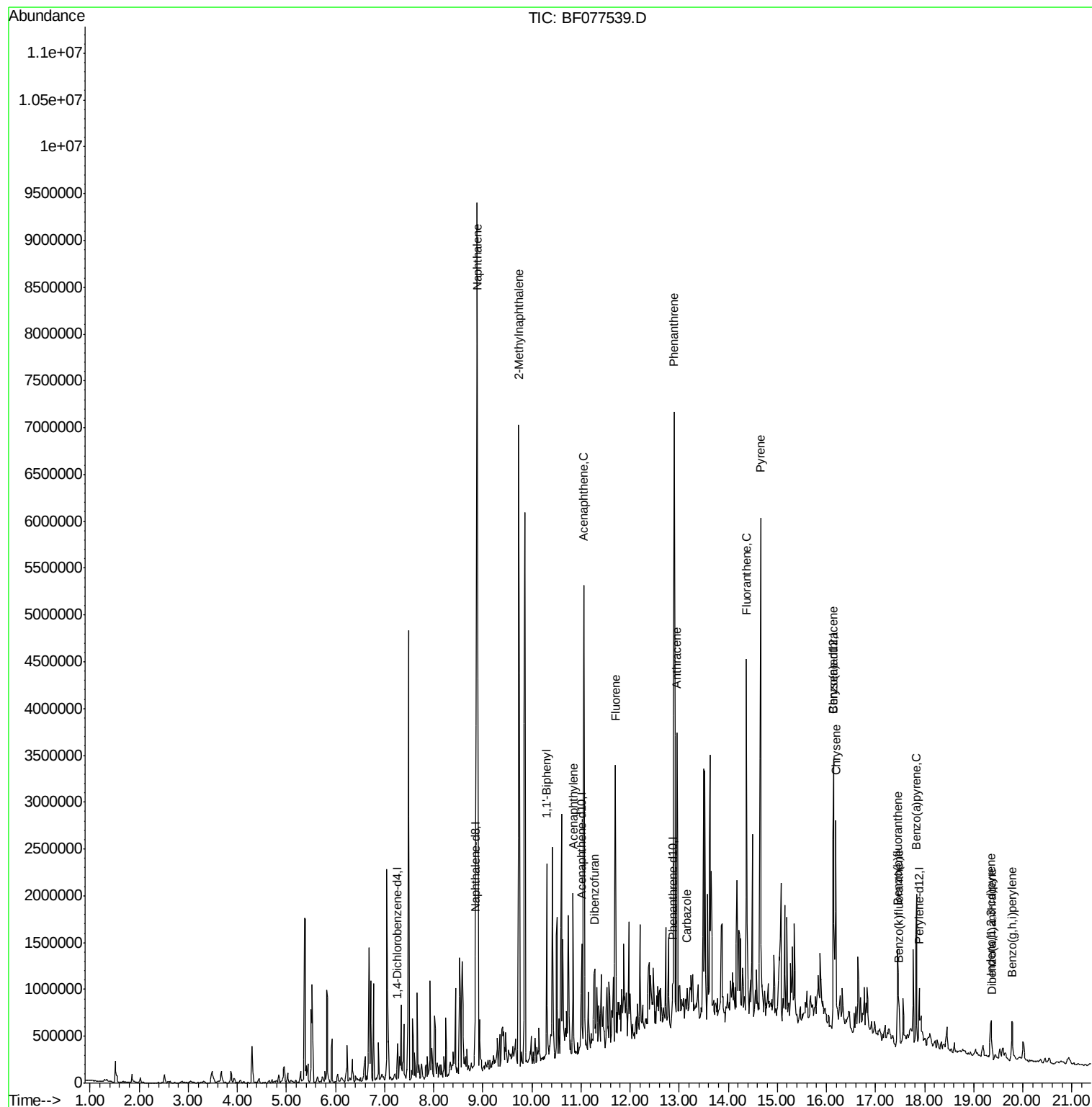
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030215\
Data File : BF077539.D
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Operator : TP/IZ
Sample : G1402-05 20X
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Response via : Initial Calibration

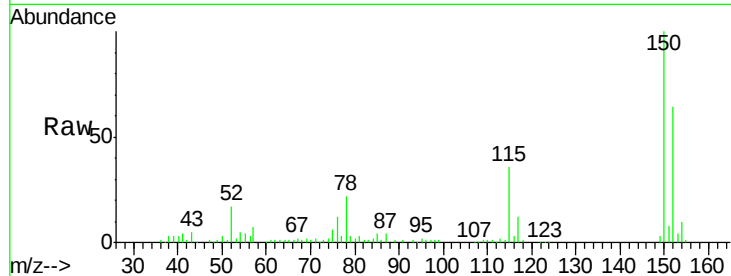




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.26 min Scan# 558
Delta R.T. 0.00 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

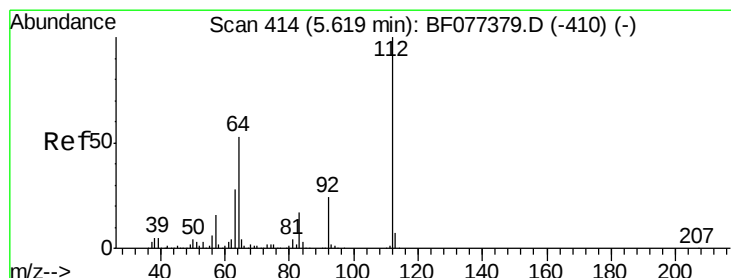
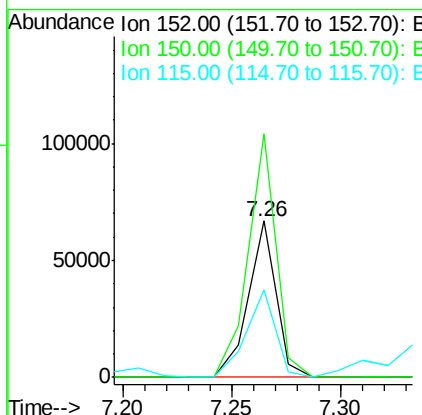
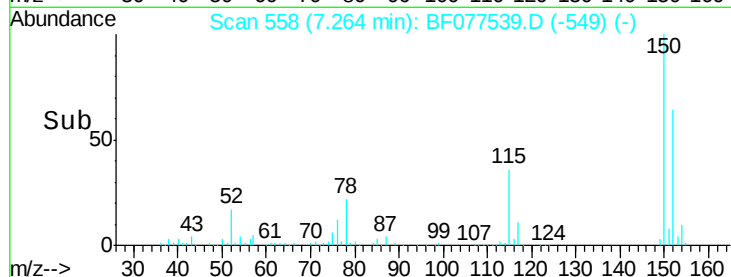
Instrument :
BNA_F
ClientSampleId :
MW44



Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.0	186.0
115	56.1	49.4	74.2

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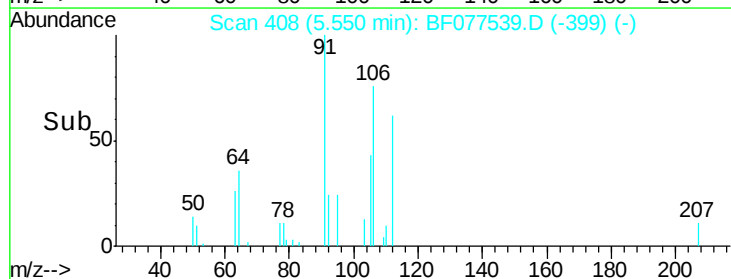
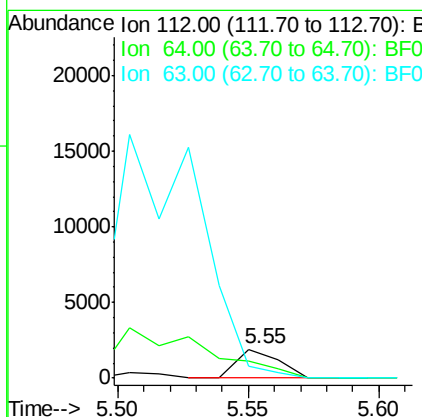
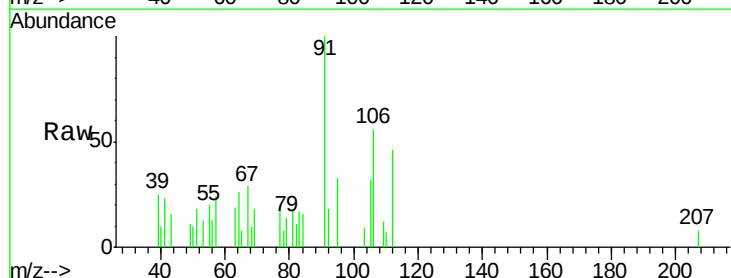
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#5

2-Fluorophenol
Concen: 0.60 ng
RT: 5.55 min Scan# 408
Delta R.T. 0.01 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	48.5	72.7
63	42.2	25.0	37.4





#7

Phenol-d6

Concen: 0.39 ng

RT: 6.82 min Scan# 519

Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Instrument :

BNA_F

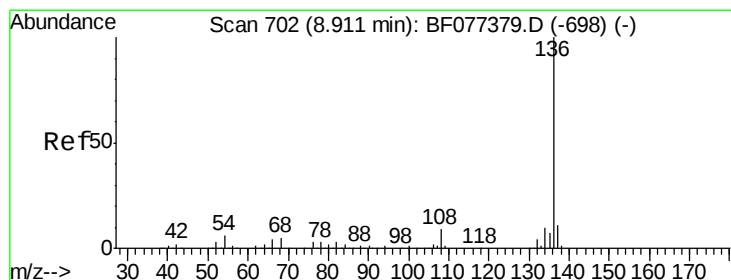
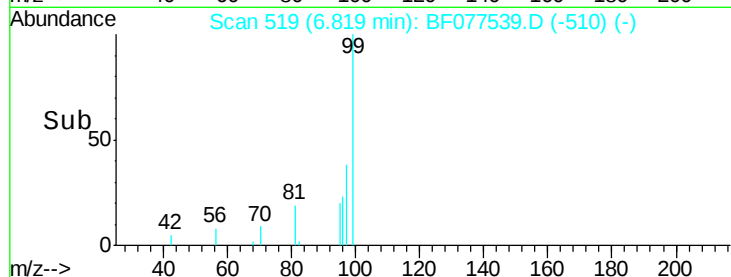
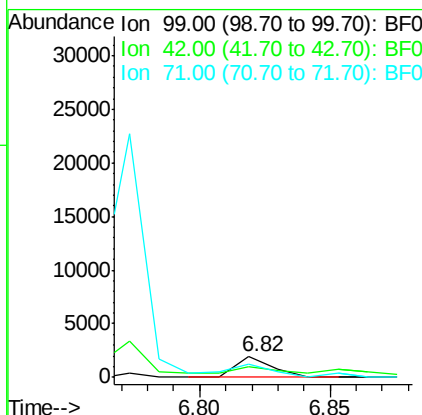
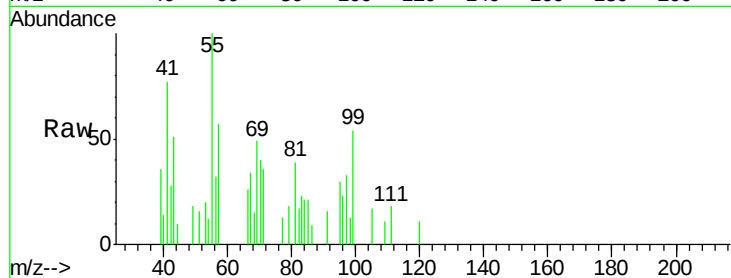
ClientSampleId :

MW44

Tgt Ion:	99	Resp:	1779
Ion Ratio	Lower	Upper	
99	100		
42	51.7	16.2	24.4#
71	65.5	26.7	40.1#

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#21

Naphthalene-d8

Concen: 20.00 ng

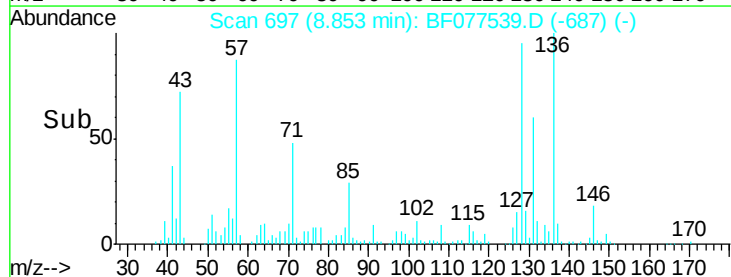
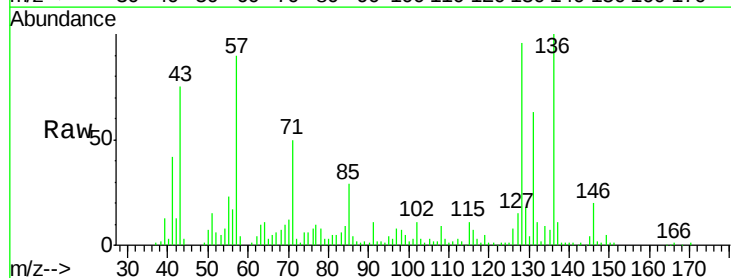
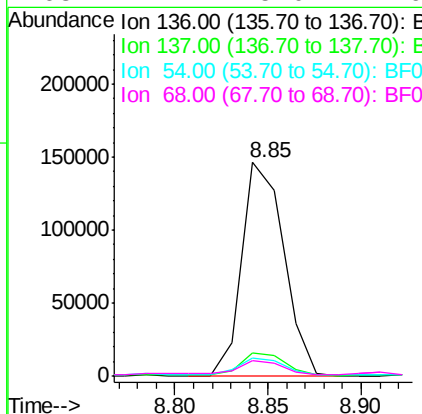
RT: 8.85 min Scan# 697

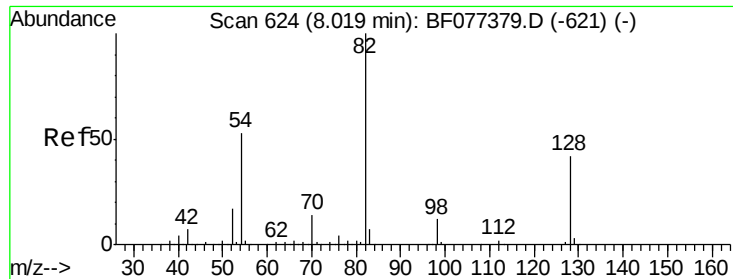
Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Tgt Ion:	136	Resp:	229891
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.6	13.0
54	8.4	6.2	9.4
68	7.1	5.0	7.6





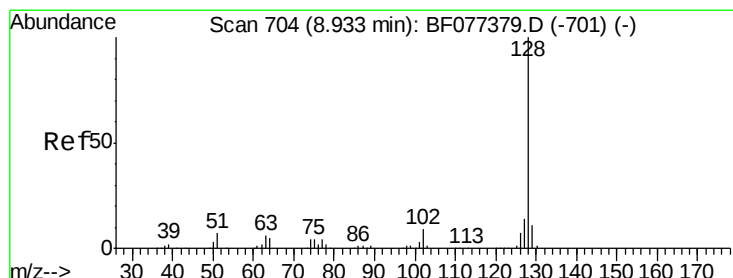
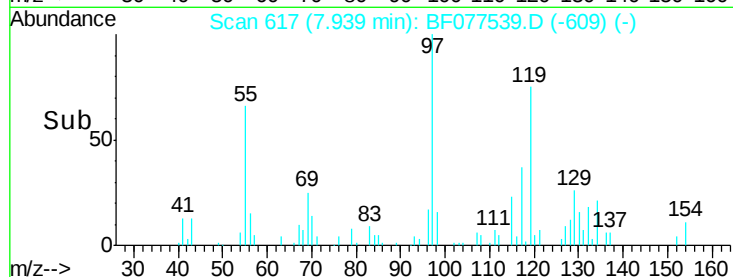
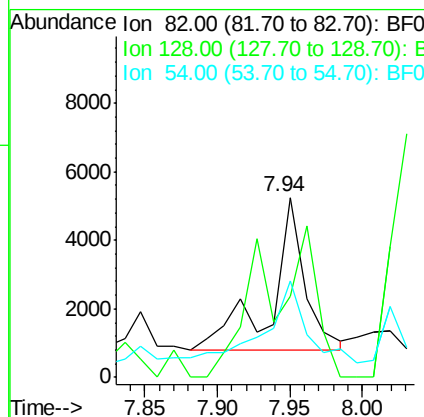
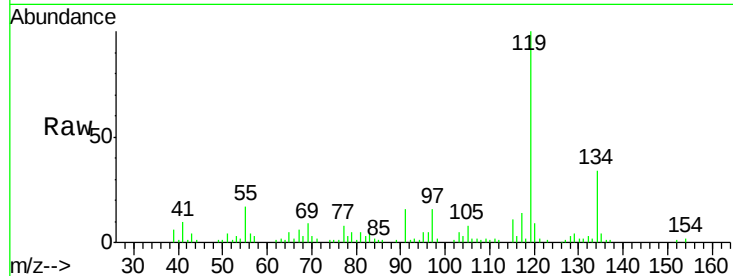
#23
Nitrobenzene-d5
Concen: 1.94 ng
RT: 7.94 min Scan# 617
Delta R.T. -0.01 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Instrument :
BNA_F
ClientSampleId :
MW44

Tgt Ion	Ratio	Lower	Upper
82	100		
128	104.7	43.8	65.8#
54	92.3	36.7	55.1#

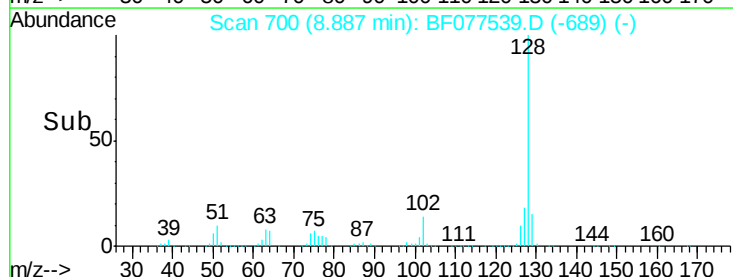
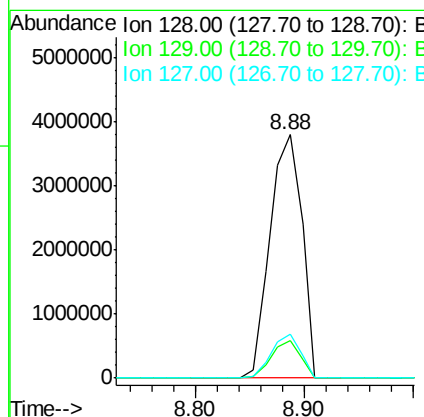
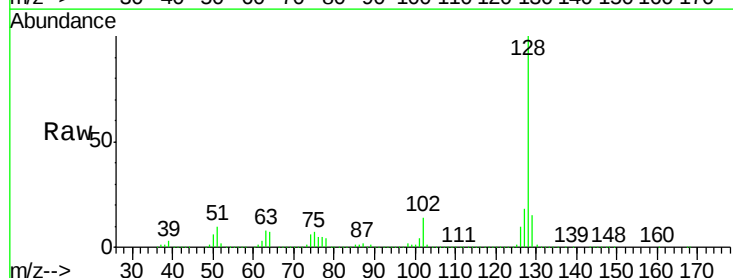
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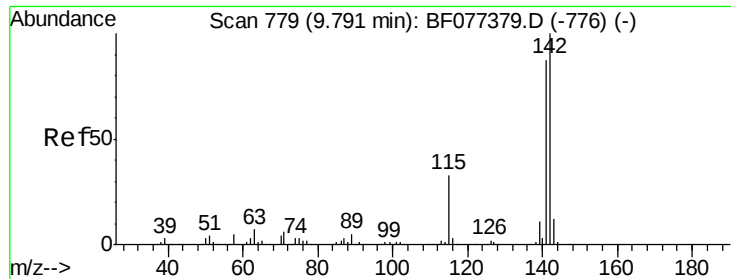
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#31
Naphthalene
Concen: 675.68 ng
RT: 8.88 min Scan# 700
Delta R.T. 0.02 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Lower	Upper
128	100		
129	15.2	9.4	14.0#
127	18.0	10.6	15.8#





#37

2-Methylnaphthalene

Concen: 346.35 ng

RT: 9.74 min Scan# 774

Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Instrument :

BNA_F

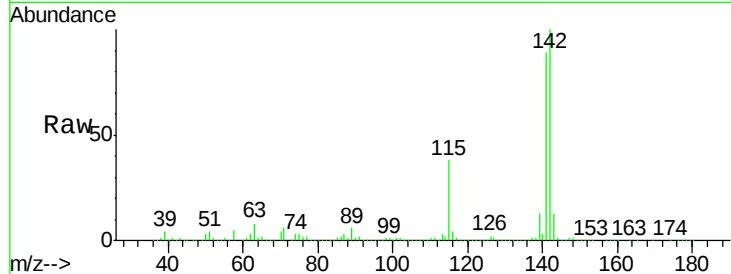
ClientSampleId :

MW44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.7	106.1
115	38.2	24.2	36.4

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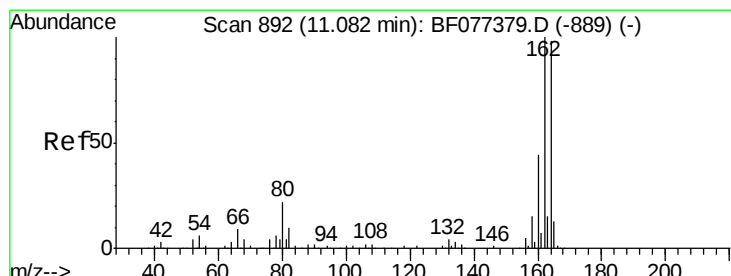
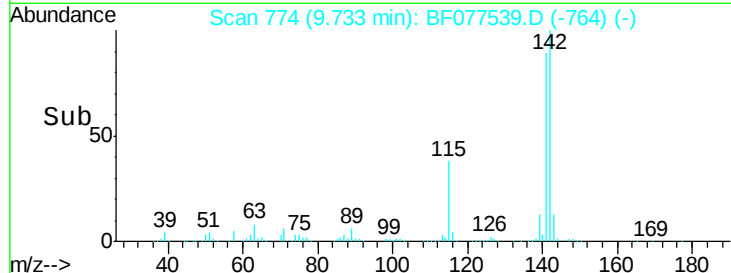
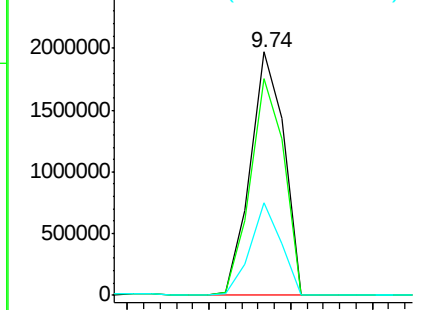


Abundance

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

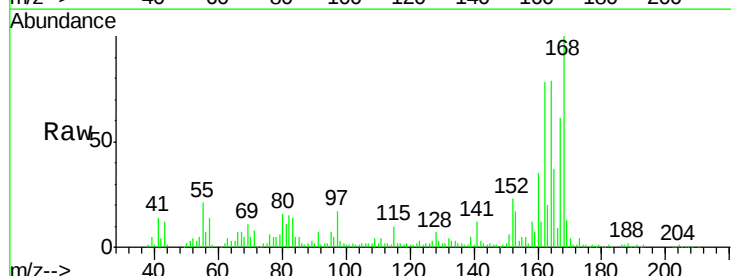
RT: 11.01 min Scan# 886

Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.2	83.2	124.8
160	44.0	34.6	52.0

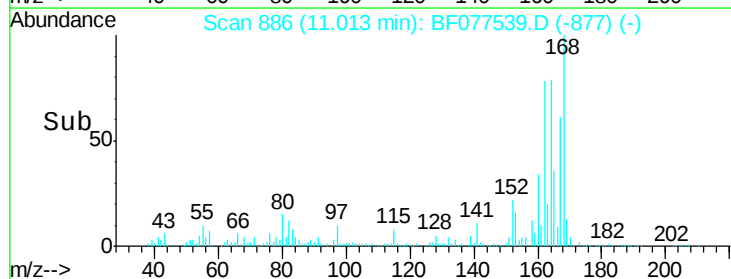
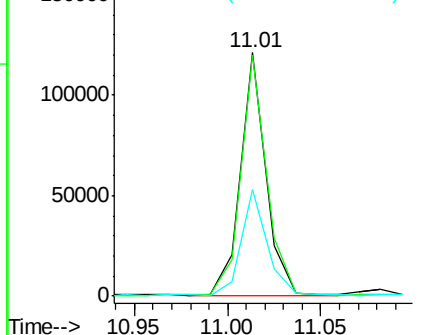


Abundance

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





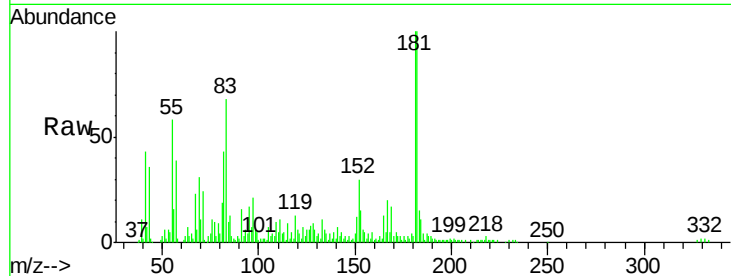
#41
 2,4,6-Tribromophenol
 Concen: 1.32 ng
 RT: 11.99 min Scan# 972
 Delta R.T. 0.00 min
 Lab File: BF077539.D
 Acq: 2 Mar 2015 23:12

Instrument :
 BNA_F
 ClientSampled :
 MW44

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.4	116.2
141	432.6	28.8	43.2#

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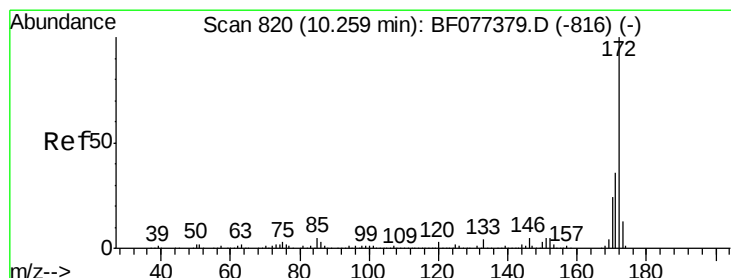
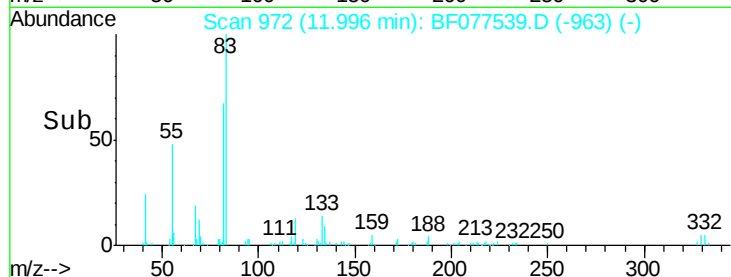
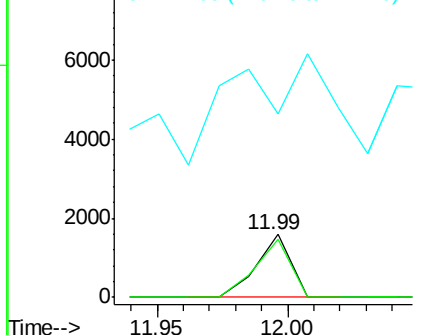


Abundance

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: 1.76 ng
 RT: 10.18 min Scan# 813
 Delta R.T. -0.00 min
 Lab File: BF077539.D
 Acq: 2 Mar 2015 23:12

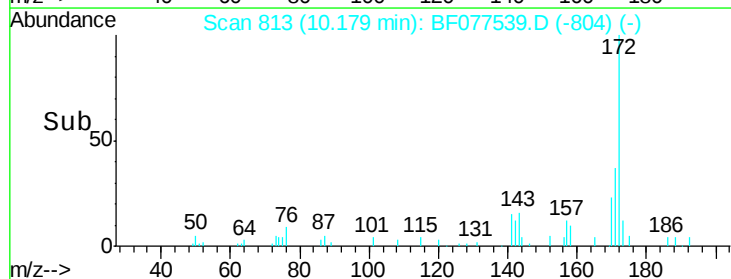
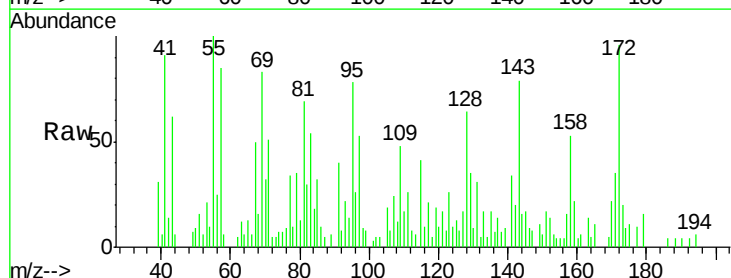
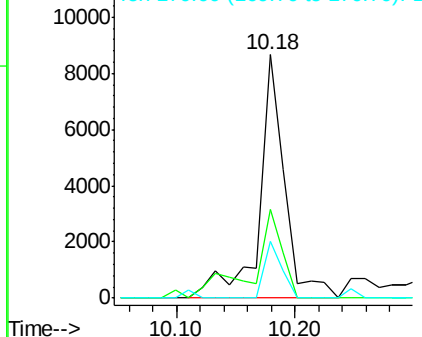
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.9	43.3
170	23.2	19.4	29.2

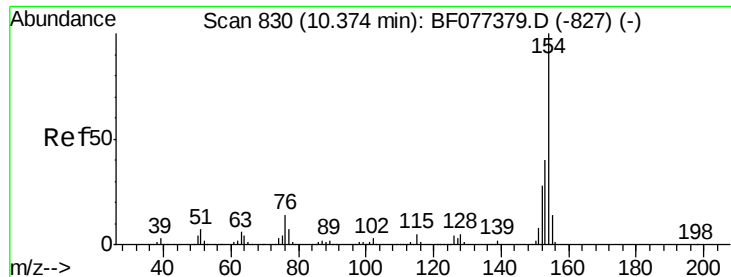
Abundance

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





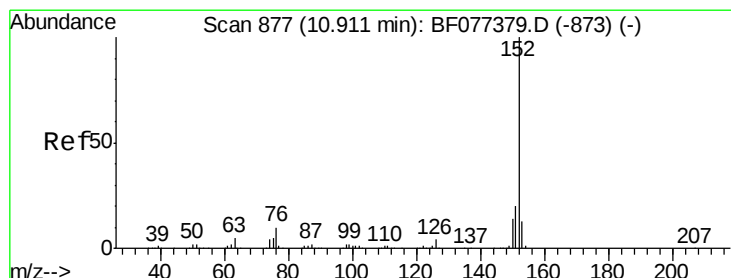
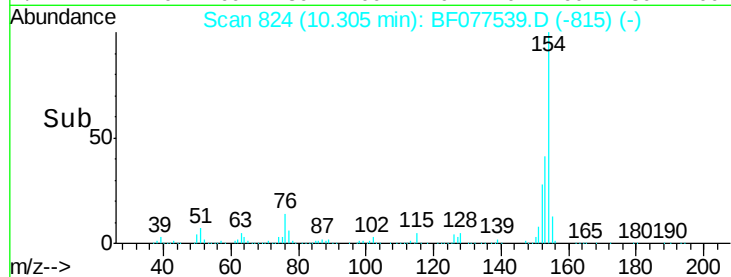
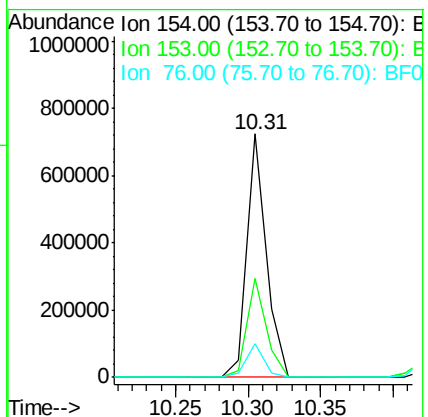
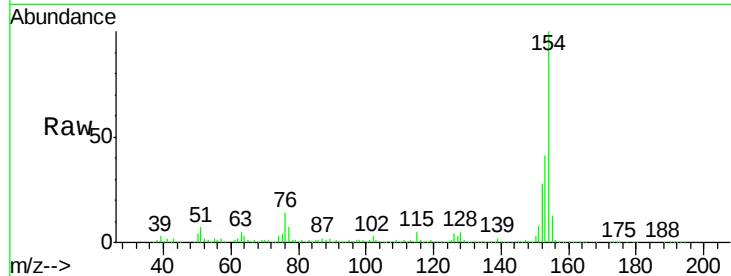
#45
1,1'-Biphenyl
Concen: 77.71 ng
RT: 10.31 min Scan# 824
Delta R.T. 0.00 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Instrument :
BNA_F
ClientSampleId :
MW44

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	673980		
153	40.9	20.2	60.2	
76	14.1	0.0	29.4	

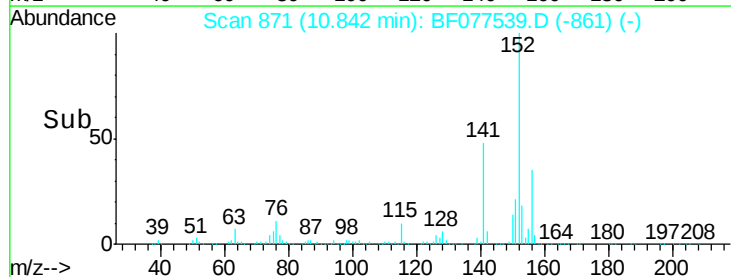
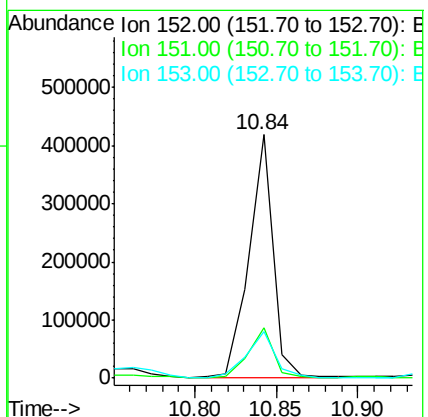
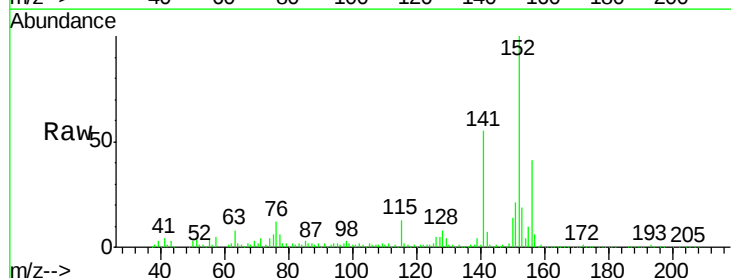
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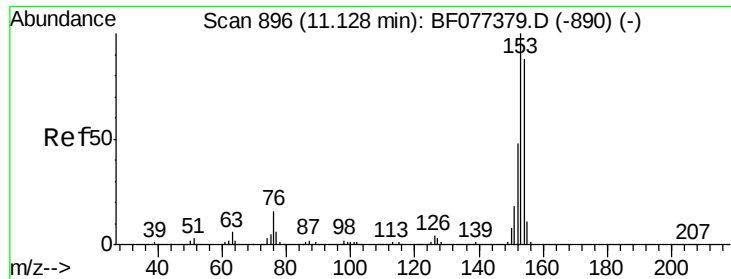
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#48
Acenaphthylene
Concen: 39.48 ng
RT: 10.84 min Scan# 871
Delta R.T. 0.01 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	425146		
151	20.9	16.1	24.1	
153	19.0	10.9	16.3	





#51

Acenaphthene

Concen: 183.98 ng

RT: 11.06 min Scan# 890

Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Instrument :

BNA_F

ClientSampleId :

MW44

Tgt Ion:154 Resp: 1182268

Ion Ratio Lower Upper

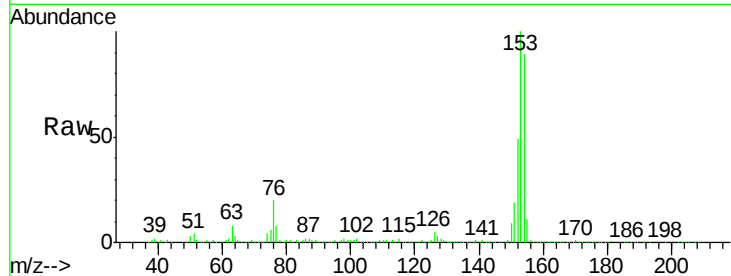
154 100

153 112.6 90.5 135.7

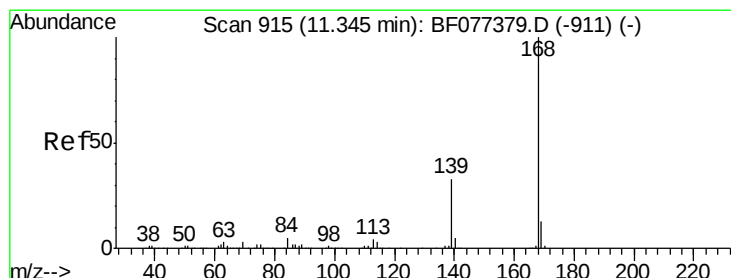
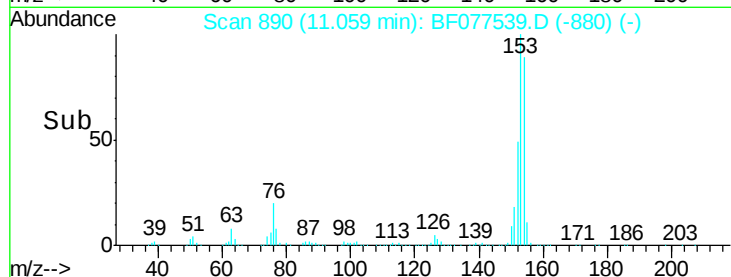
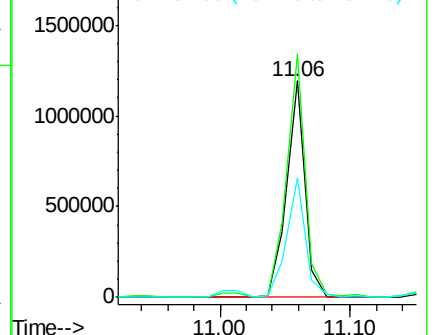
152 55.1 43.5 65.3

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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: 15.98 ng

RT: 11.27 min Scan# 908

Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

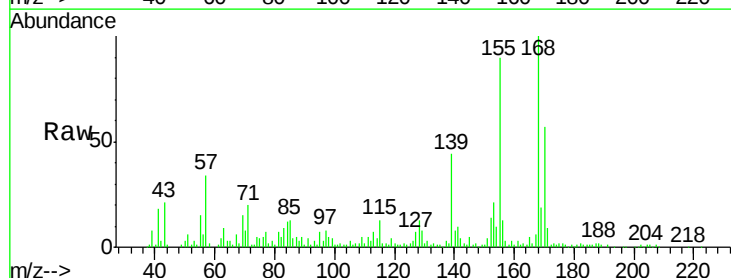
Tgt Ion:168 Resp: 158533

Ion Ratio Lower Upper

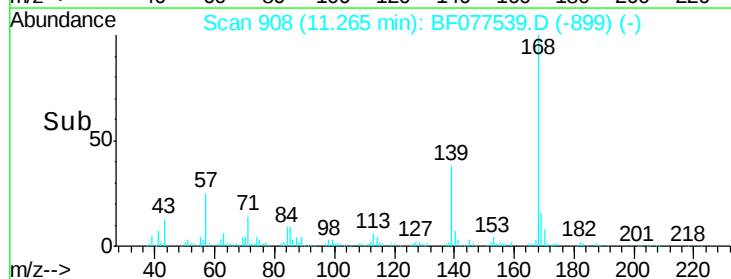
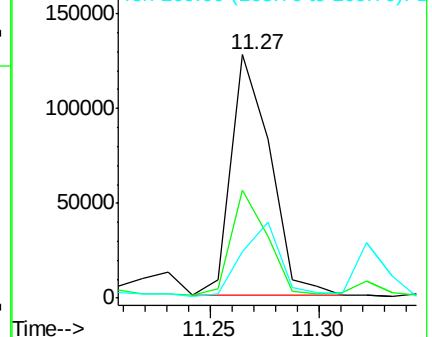
168 100

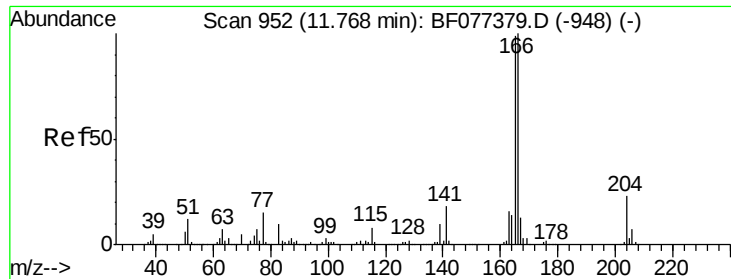
139 44.3 29.3 43.9#

169 19.0 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: 121.28 ng m

RT: 11.70 min Scan# 946

Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Instrument :

BNA_F

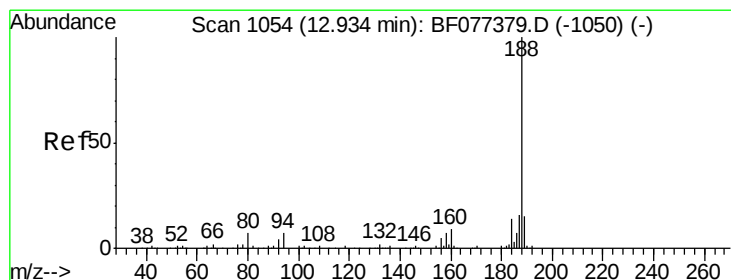
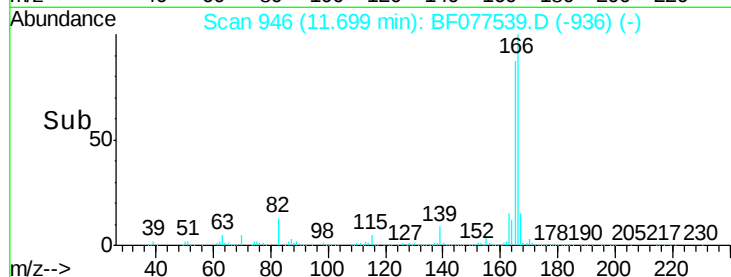
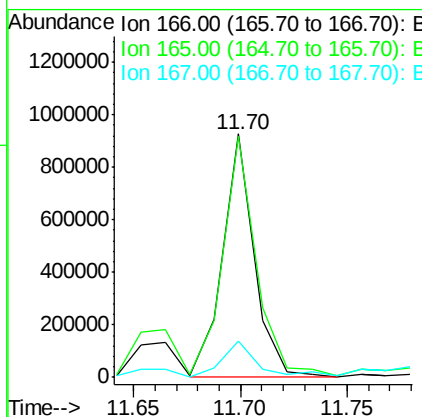
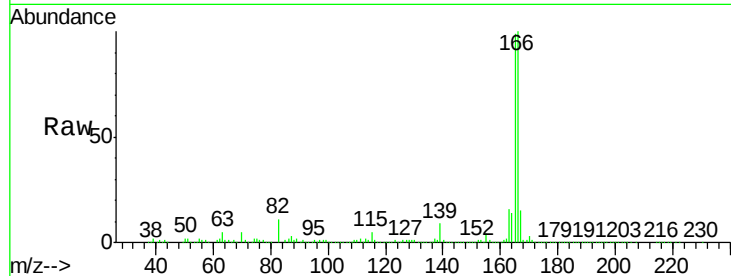
ClientSampleId :

MW44

Tgt Ion:	166	Resp:	962032
Ion Ratio	Lower	Upper	
166	100		
165	98.9	77.6	116.4
167	14.8	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.00 ng

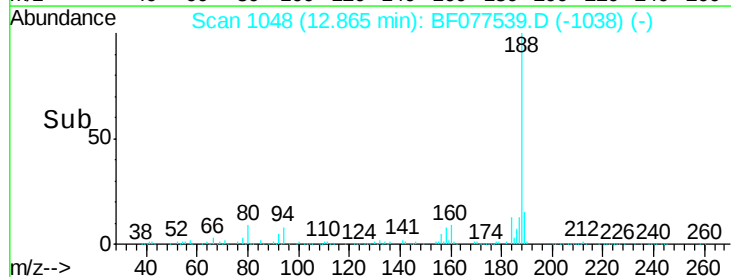
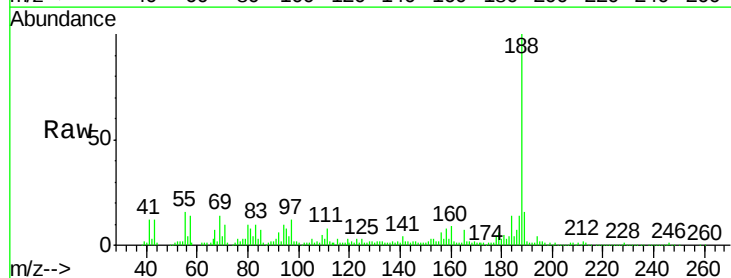
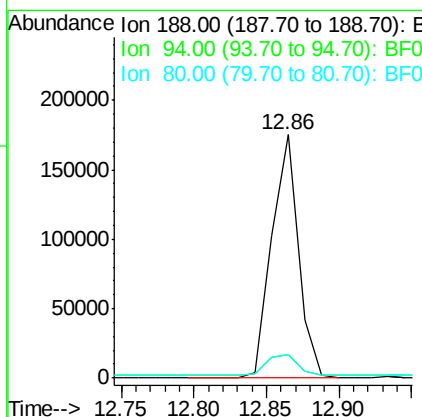
RT: 12.86 min Scan# 1048

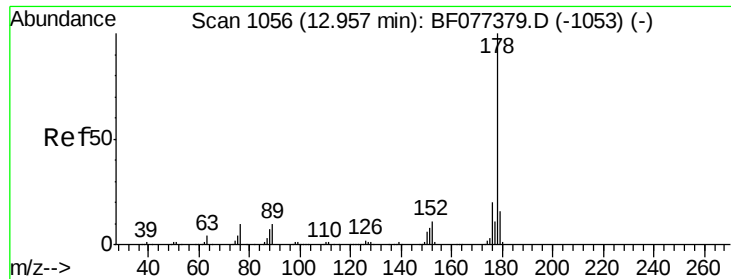
Delta R.T. 0.01 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Tgt Ion:	188	Resp:	222248
Ion Ratio	Lower	Upper	
188	100		
94	9.7	7.4	11.2
80	9.8	8.0	12.0





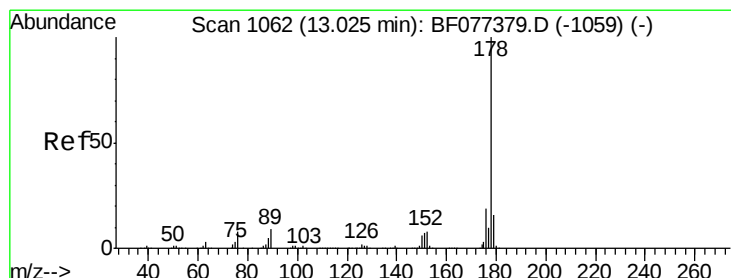
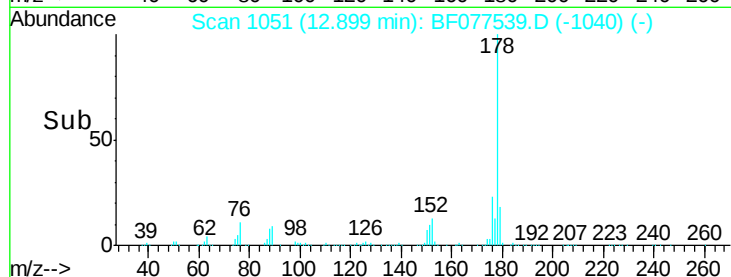
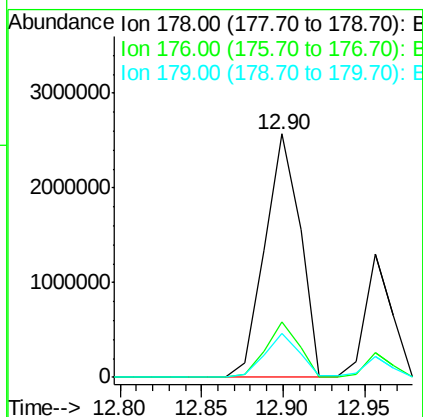
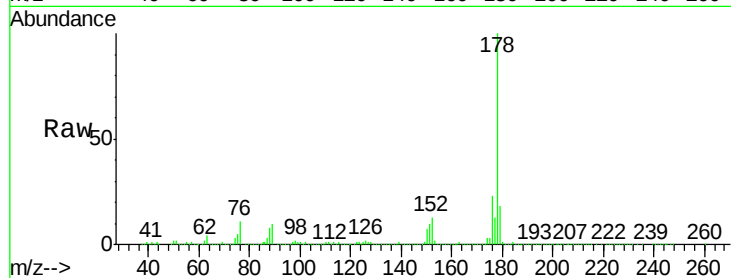
#70
Phenanthrene
Concen: 299.84 ng
RT: 12.90 min Scan# 1051
Delta R.T. 0.02 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Instrument :
BNA_F
ClientSampleId :
MW44

Tgt Ion:178 Resp: 3862366
Ion Ratio Lower Upper
178 100
176 22.6 15.5 23.3
179 18.2 12.2 18.2

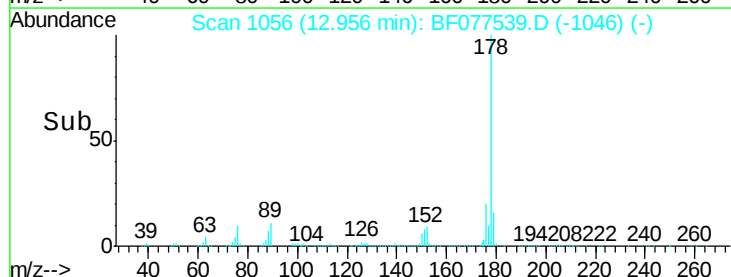
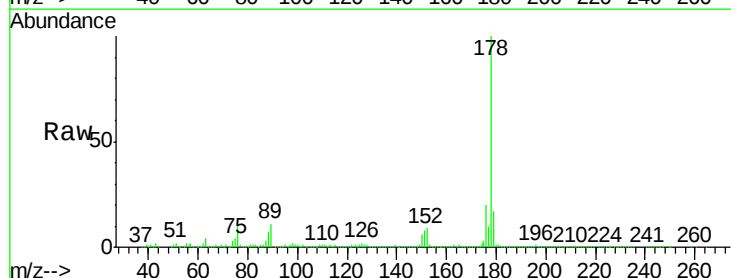
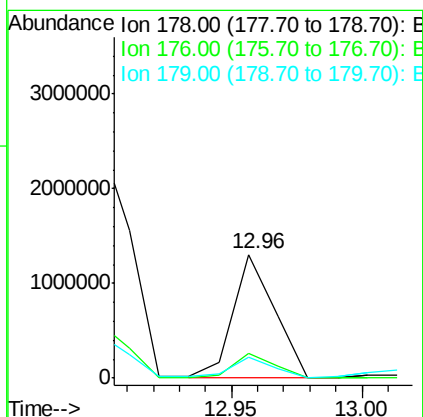
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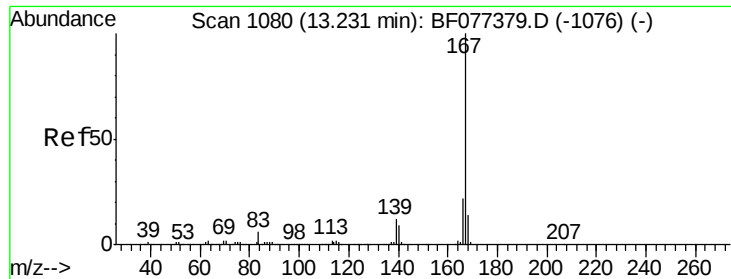
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#71
Anthracene
Concen: 112.38 ng
RT: 12.96 min Scan# 1056
Delta R.T. 0.02 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Tgt Ion:178 Resp: 1436502
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.0
179 16.7 12.9 19.3





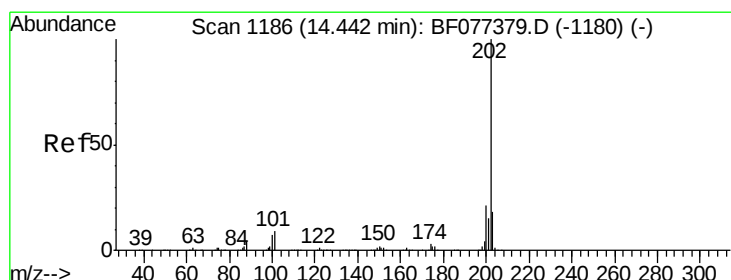
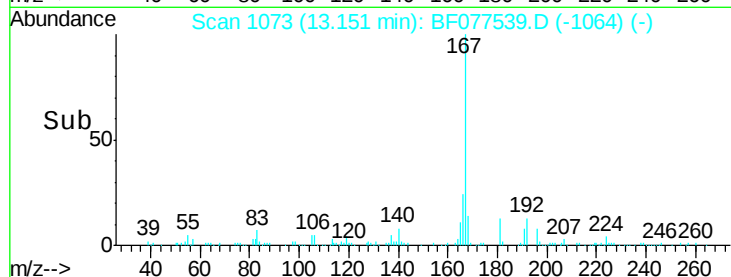
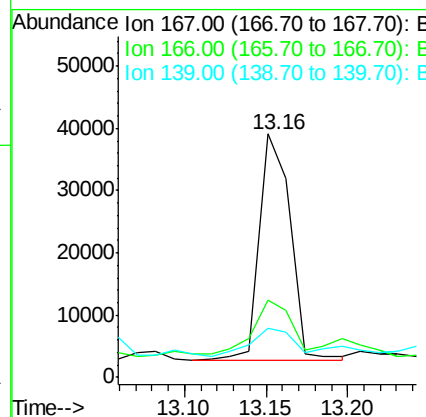
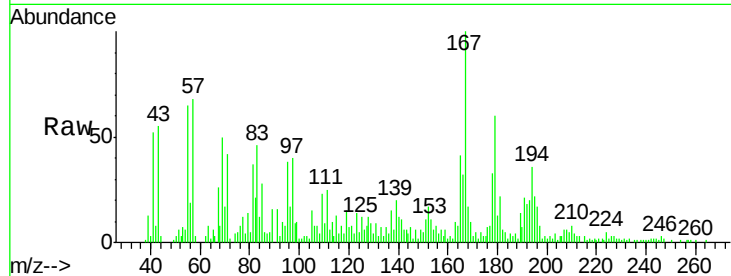
#72
 Carbazole
 Concen: 4.00 ng
 RT: 13.16 min Scan# 1073
 Delta R.T. 0.01 min
 Lab File: BF077539.D
 Acq: 2 Mar 2015 23:12

Instrument :
 BNA_F
 ClientSampled :
 MW44

Tgt Ion	Ratio	Resp Lower	Upper
167	100		
166	31.9	17.6	26.4#
139	20.0	9.9	14.9#

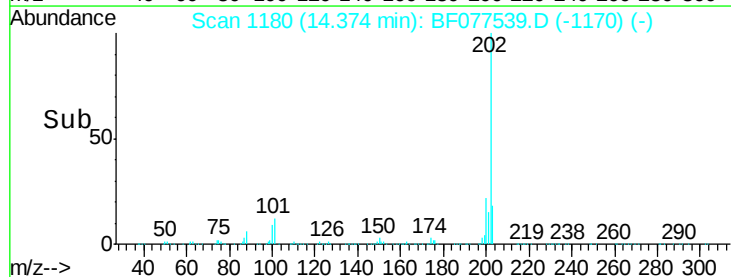
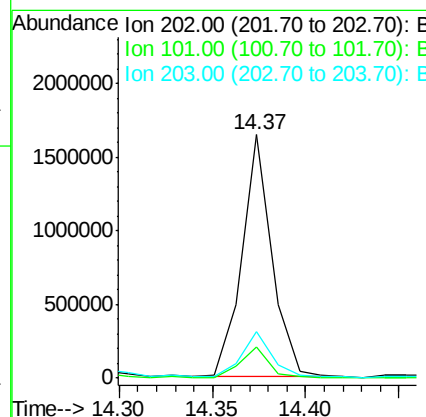
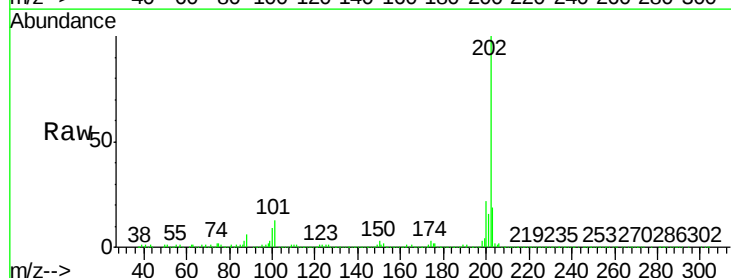
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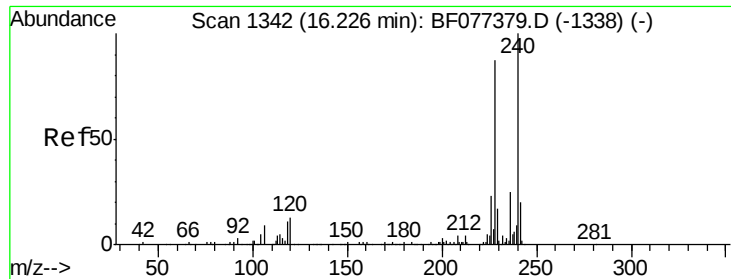
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#74
 Fluoranthene
 Concen: 130.87 ng
 RT: 14.37 min Scan# 1180
 Delta R.T. 0.02 min
 Lab File: BF077539.D
 Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
101	12.6	0.0	30.8
203	19.2	0.0	37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.15 min Scan# 1336

Delta R.T. 0.02 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Instrument :

BNA_F

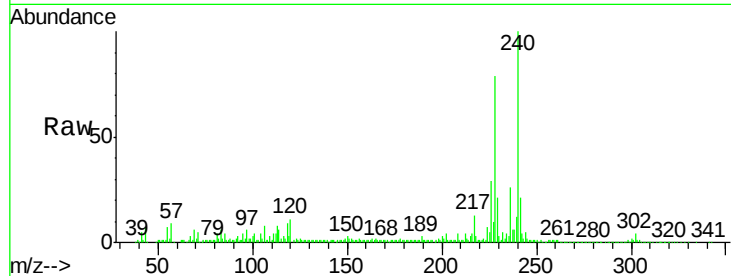
ClientSampleId :

MW44

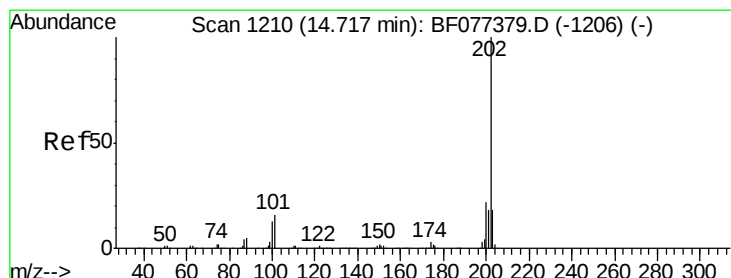
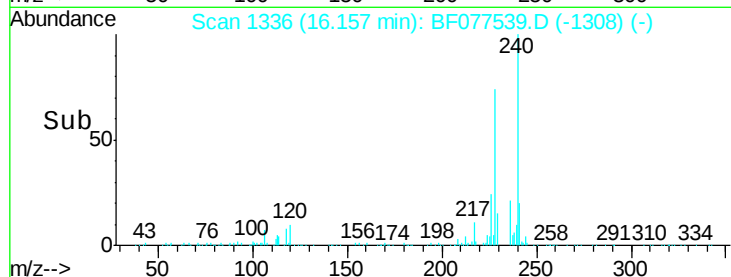
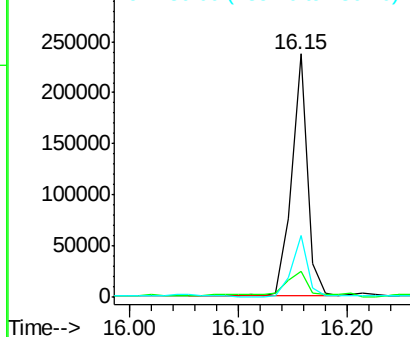
Tgt Ion:	240	Resp:	244309
Ion Ratio	Lower	Upper	
240	100		
120	10.8	8.8	13.2
236	25.6	20.7	31.1

Manual Integrations
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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: 179.46 ng

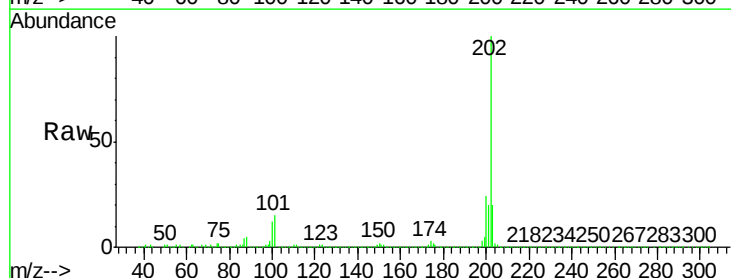
RT: 14.66 min Scan# 1205

Delta R.T. 0.02 min

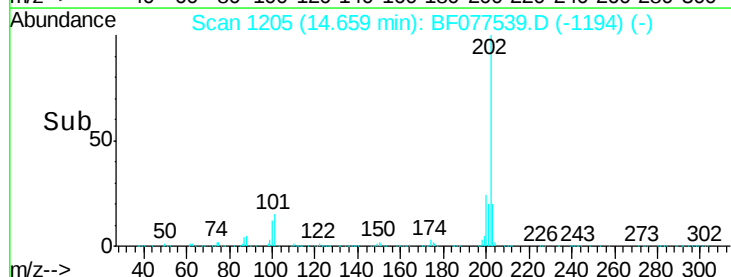
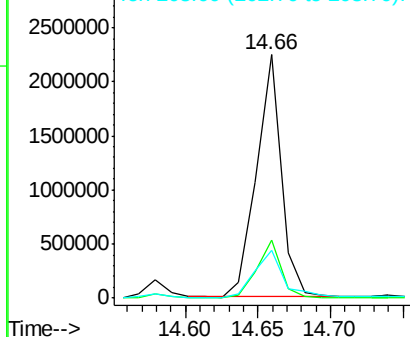
Lab File: BF077539.D

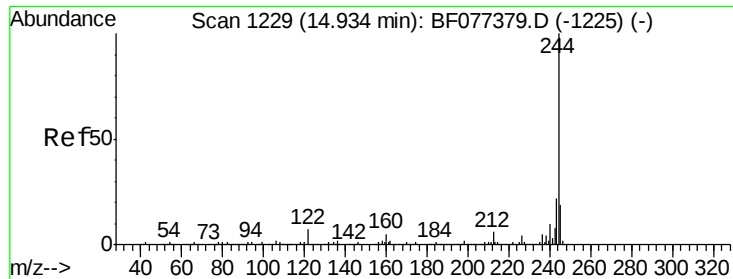
Acq: 2 Mar 2015 23:12

Tgt Ion:	202	Resp:	2681958
Ion Ratio	Lower	Upper	
202	100		
200	23.8	17.1	25.7
203	19.8	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





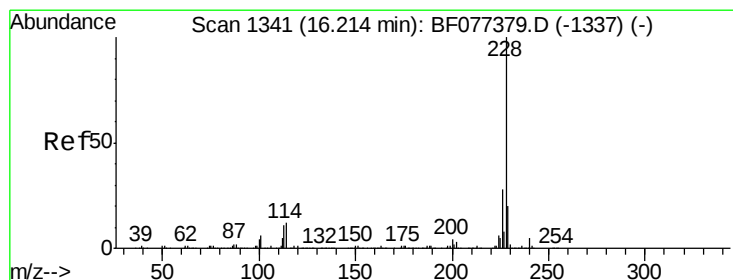
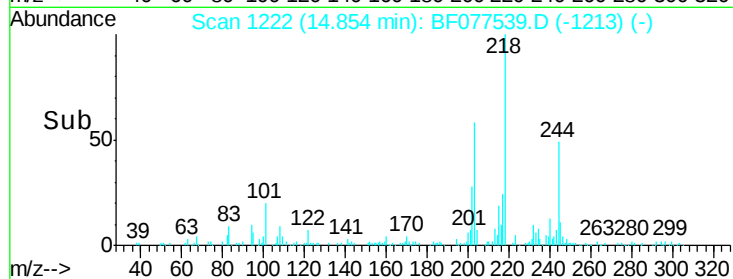
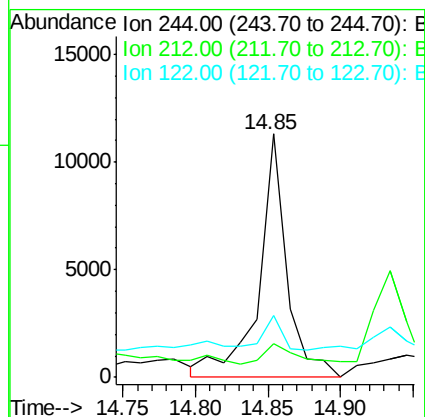
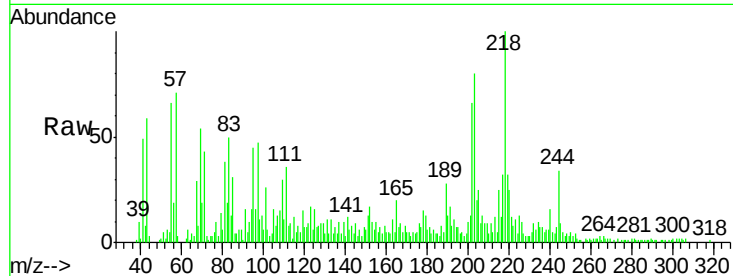
#78
 Terphenyl-d14
 Concen: 1.45 ng
 RT: 14.85 min Scan# 1222
 Delta R.T. 0.00 min
 Lab File: BF077539.D
 Acq: 2 Mar 2015 23:12

Instrument :
 BNA_F
 ClientSampleId :
 MW44

Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.6	5.2	7.8#
122	25.3	7.8	11.8#

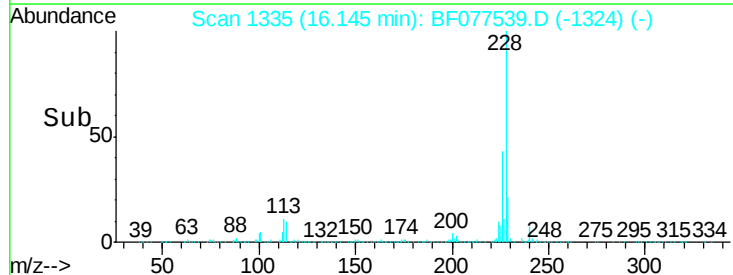
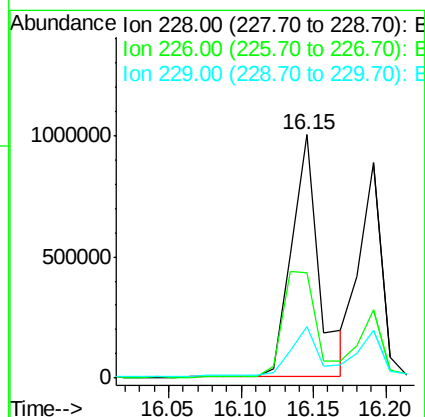
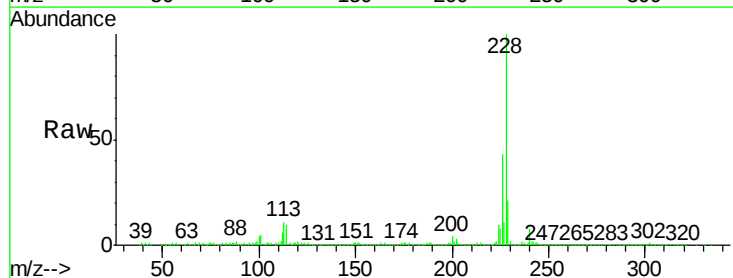
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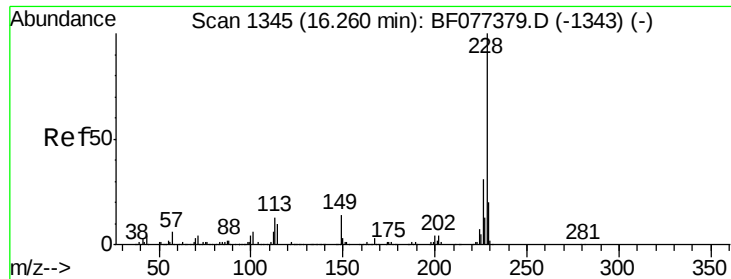
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#80
 Benzo(a)anthracene
 Concen: 91.92 ng
 RT: 16.15 min Scan# 1335
 Delta R.T. 0.02 min
 Lab File: BF077539.D
 Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	43.4	22.0	33.0#
229	21.3	15.8	23.8





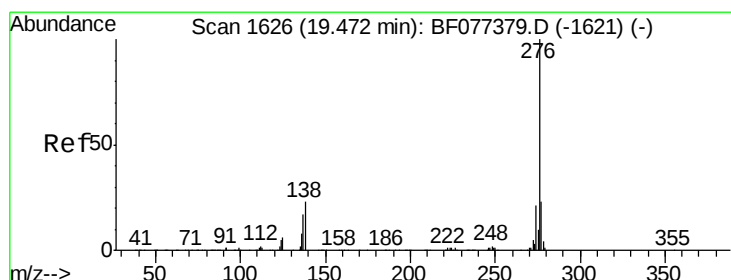
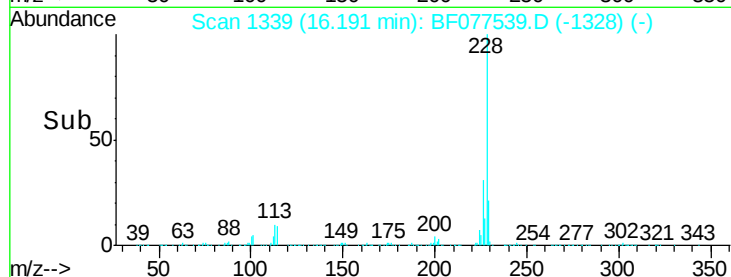
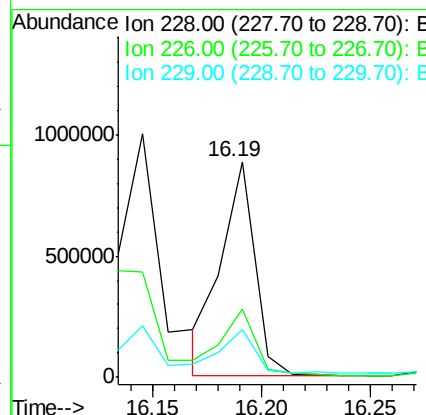
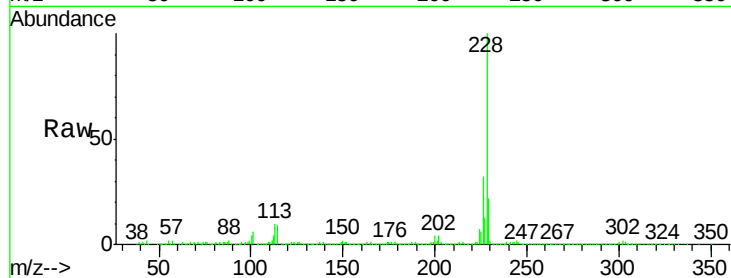
#82
Chrysene
Concen: 70.54 ng
RT: 16.19 min Scan# 1339
Delta R.T. 0.02 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Instrument :
BNA_F
ClientSampleId :
MW44

Tgt Ion:	228	Resp:	948403
Ion Ratio	Lower	Upper	
228	100		
226	31.7	24.9	37.3
229	22.2	16.4	24.6

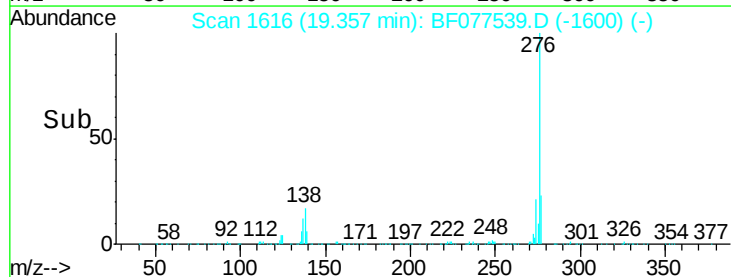
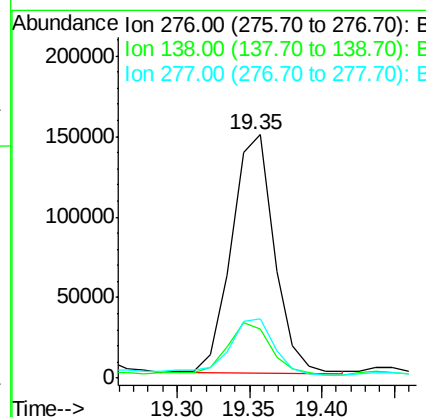
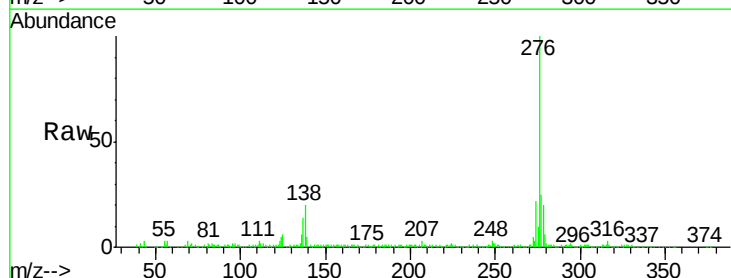
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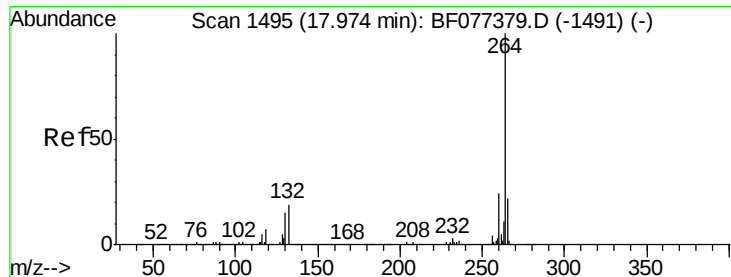
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#85
Indeno(1,2,3-cd)pyrene
Concen: 19.85 ng m
RT: 19.36 min Scan# 1616
Delta R.T. 0.08 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Tgt Ion:	276	Resp:	304303
Ion Ratio	Lower	Upper	
276	100		
138	0.0	21.2	31.8#
277	0.0	20.0	30.0#





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.89 min Scan# 1488

Delta R.T. 0.06 min

Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Instrument :

BNA_F

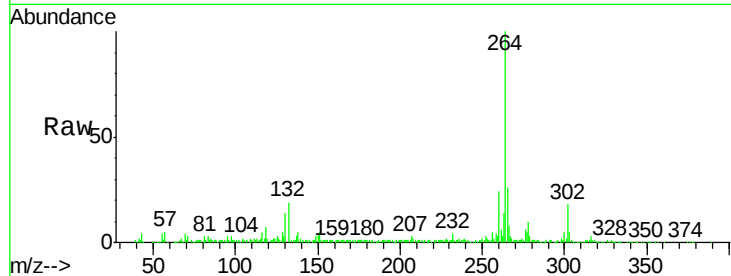
ClientSampleId :

MW44

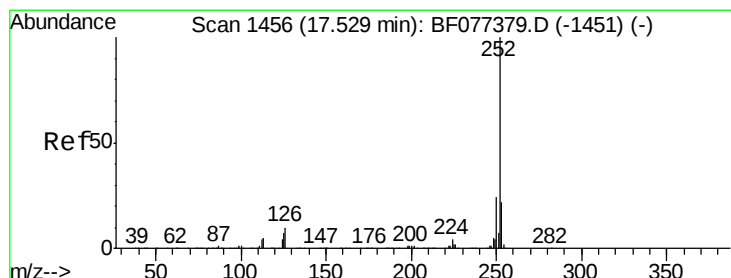
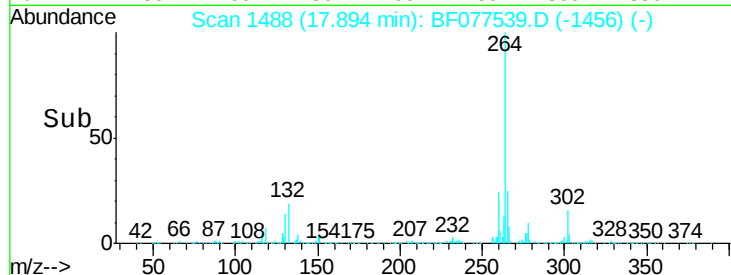
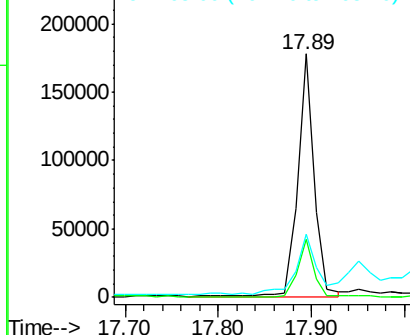
Tgt Ion:	264	Resp:	217383
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.3	28.9
265	26.0	16.8	25.2#

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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: 64.19 ng m

RT: 17.45 min Scan# 1449

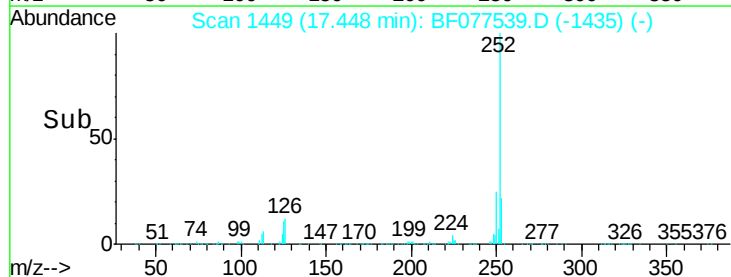
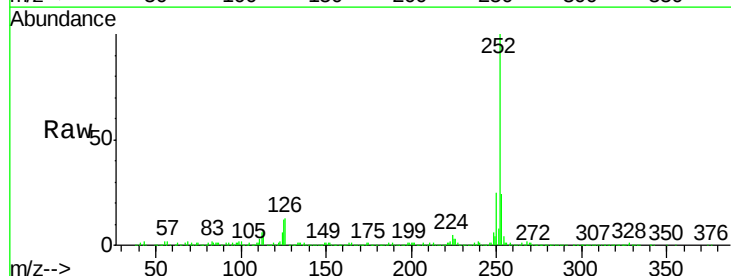
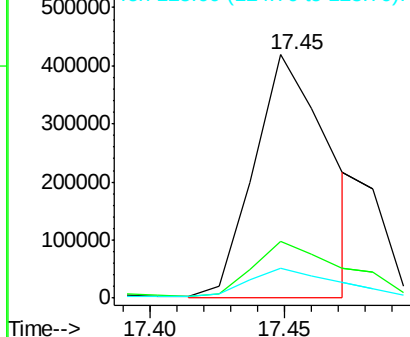
Delta R.T. 0.06 min

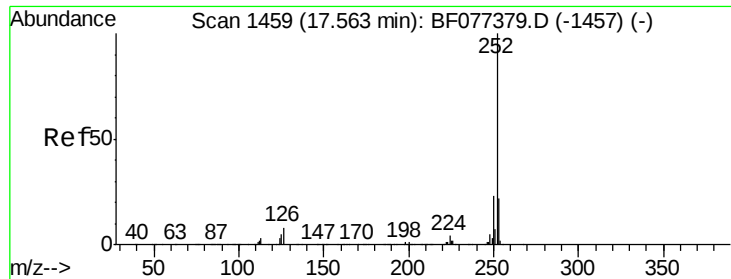
Lab File: BF077539.D

Acq: 2 Mar 2015 23:12

Tgt Ion:	252	Resp:	811389
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.6	26.4
125	12.0	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





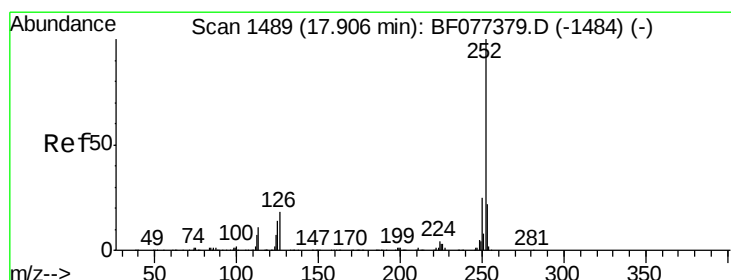
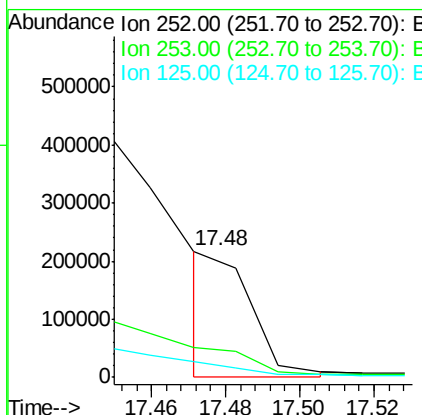
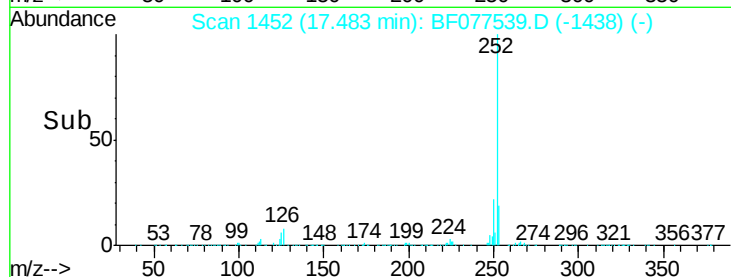
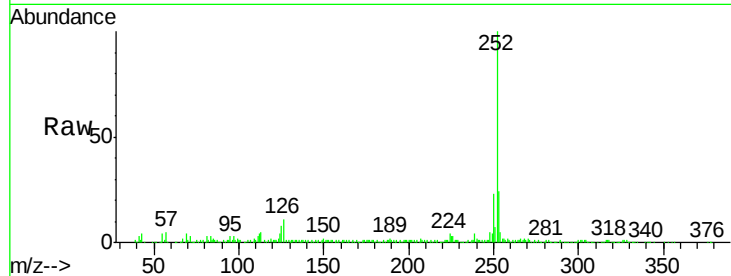
#88
Benzo(k)fluoranthene
Concen: 12.06 ng m
RT: 17.48 min Scan# 1452
Delta R.T. 0.06 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Instrument :
BNA_F
ClientSampleId :
MW44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	8.2	10.1	15.1#

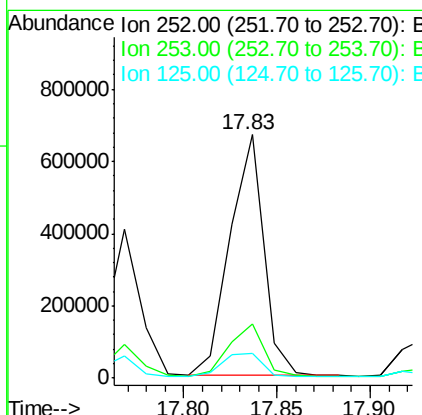
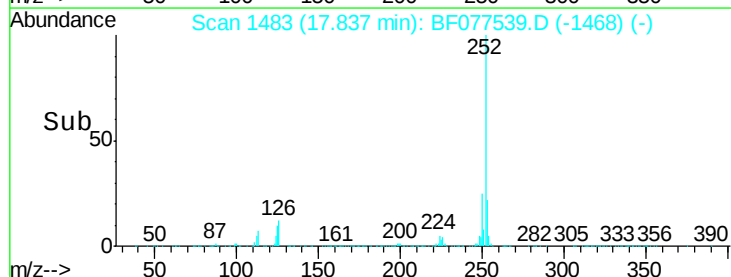
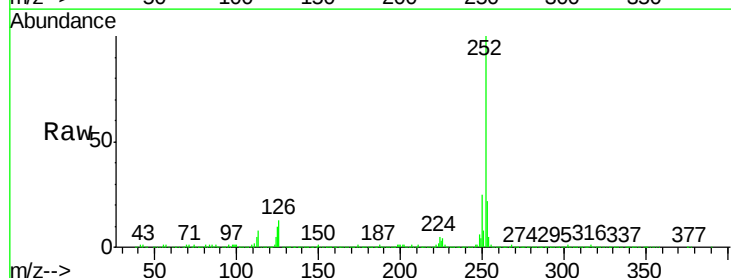
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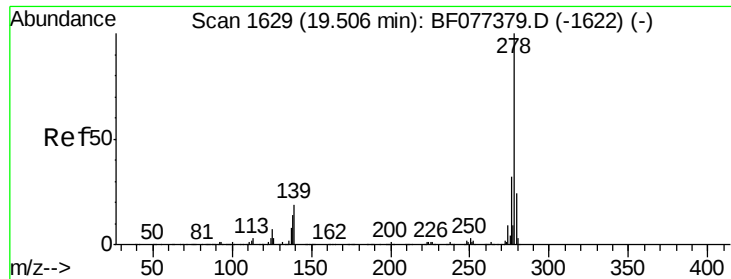
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#89
Benzo(a)pyrene
Concen: 70.71 ng
RT: 17.83 min Scan# 1483
Delta R.T. 0.07 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.2
125	10.1	8.3	12.5





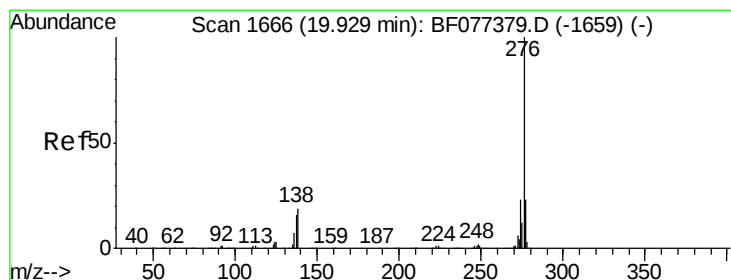
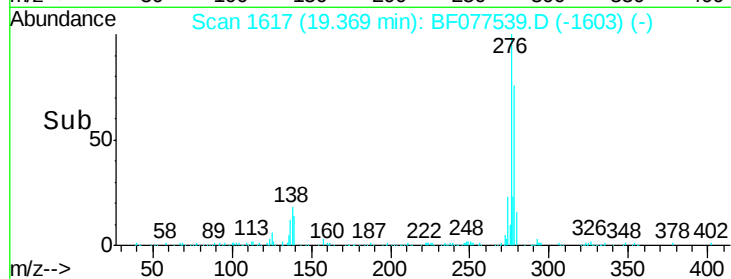
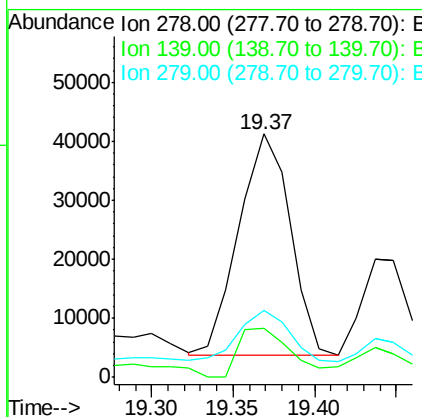
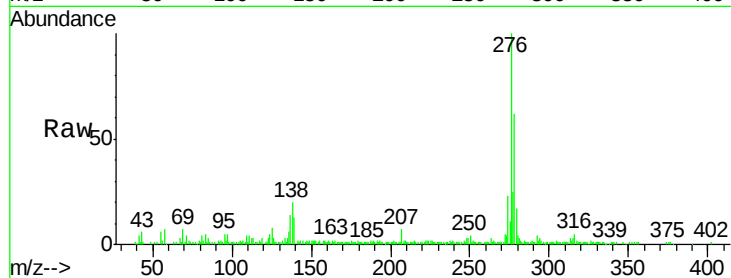
#90
Dibenzo(a,h)anthracene
Concen: 7.16 ng
RT: 19.37 min Scan# 1617
Delta R.T. 0.06 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Instrument :
BNA_F
ClientSampleId :
MW44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.1	14.3	21.5
279	27.7	19.0	28.6

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 31.10 ng
RT: 19.79 min Scan# 1653
Delta R.T. 0.08 min
Lab File: BF077539.D
Acq: 2 Mar 2015 23:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.9	28.3
138	23.8	20.5	30.7

