

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
 Data File : BF093790.D
 Acq On : 21 Mar 2017 3:12
 Operator : SJ/MA
 Sample : I2280-07 50X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4

Manual Integrations
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Quant Time: Mar 21 03:56:48 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 20 16:03:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	229611	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	854426	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	381766	20.00	ng	-0.01
63) Phenanthrene-d10	11.35	188	591673	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	396246	20.00	ng	-0.02
86) Perylene-d12	15.39	264	342995	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	28050	2.14	ng	-0.02
7) Phenol-d6	6.45	99	35779	2.21	ng	-0.03
23) Nitrobenzene-d5	7.38	82	17495	1.16	ng	-0.02
41) 2,4,6-Tribromophenol	10.65	330	3210	1.09	ng	-0.02
44) 2-Fluorobiphenyl	9.19	172	41356	1.82	ng	-0.02
78) Terphenyl-d14	12.93	244	28304	1.46	ng	-0.02

Target Compounds				Qvalue		
10) Phenol	6.47	94	86666	4.75	ng	80
17) 2-Methylphenol	7.09	107	27071	2.14	ng	96
20) 3+4-Methylphenols	7.24	107	71958	4.80	ng	# 62
31) Naphthalene	8.16	128	6066262	152.96	ng	97
37) 2-Methylnaphthalene	8.84	142	1035112	39.98	ng	99
45) 1,1'-Biphenyl	9.29	154	305172	9.84	ng	96
48) Acenaphthylene	9.73	152	1275150	32.94	ng	99
51) Acenaphthene	9.90	154	136957m	5.92	ng	
54) Dibenzofuran	10.08	168	995651	32.00	ng	94
57) Fluorene	10.42	166	1046597m	43.92	ng	
70) Phenanthrene	11.38	178	2894345	91.85	ng	99
71) Anthracene	11.43	178	1280038	39.46	ng	100
72) Carbazole	11.58	167	533368	16.61	ng	97
74) Fluoranthene	12.56	202	1834520	56.64	ng	99
77) Pyrene	12.79	202	1667222	50.56	ng	100
80) Benzo(a)anthracene	13.97	228	679861m	27.39	ng	
82) Chrysene	14.00	228	606897m	24.47	ng	
85) Indeno(1,2,3-cd)pyrene	16.75	276	201228	9.91	ng	95
87) Benzo(b)fluoranthene	14.99	252	572616m	24.76	ng	
88) Benzo(k)fluoranthene	15.00	252	264669m	15.50	ng	
89) Benzo(a)pyrene	15.33	252	491525	26.21	ng	99
90) Dibenzo(a,h)anthracene	16.76	278	53888m	3.46	ng	
91) Benzo(g,h,i)perylene	17.15	276	177511	11.49	ng	98

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

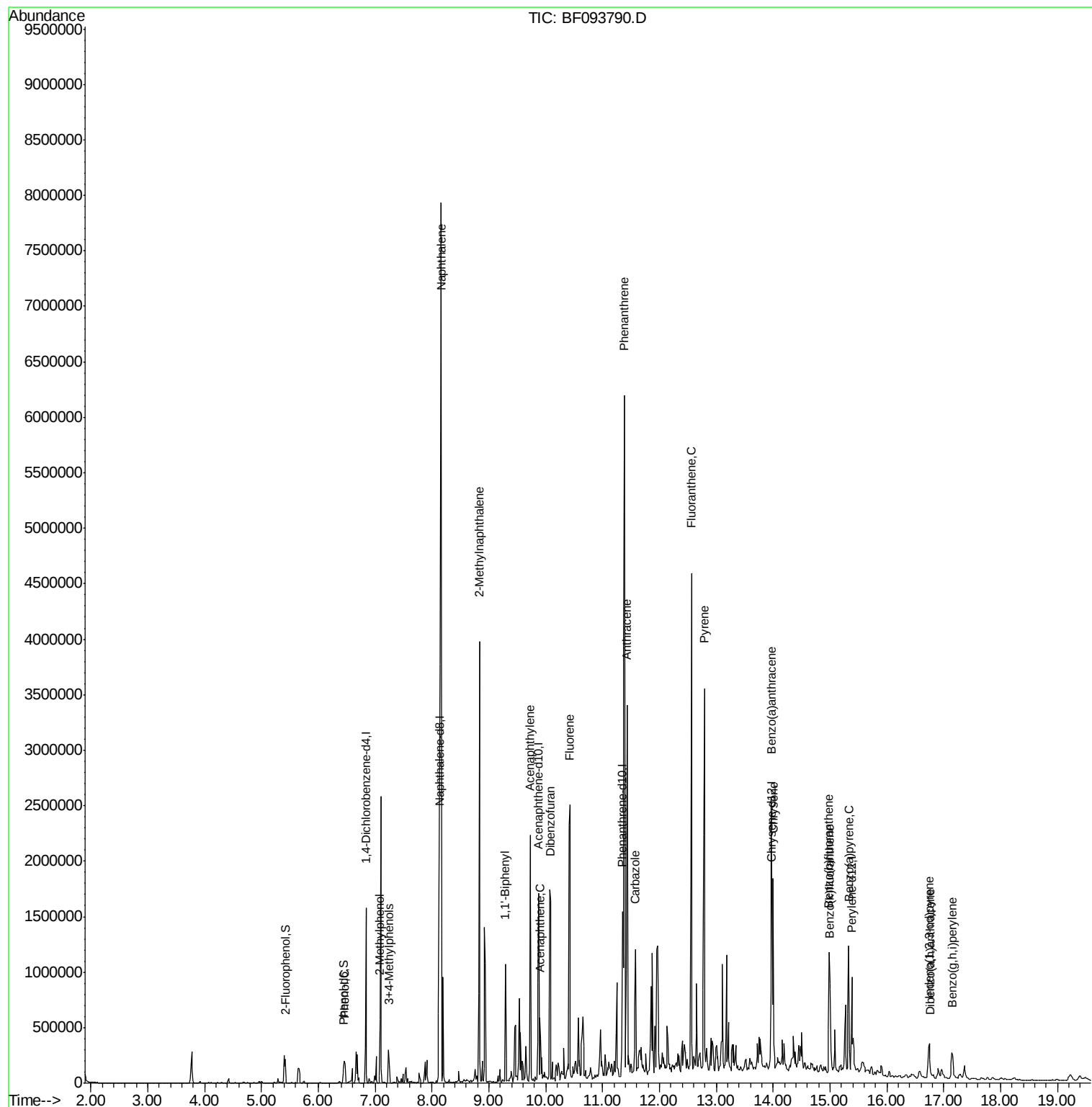
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
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Sample : I2280-07 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

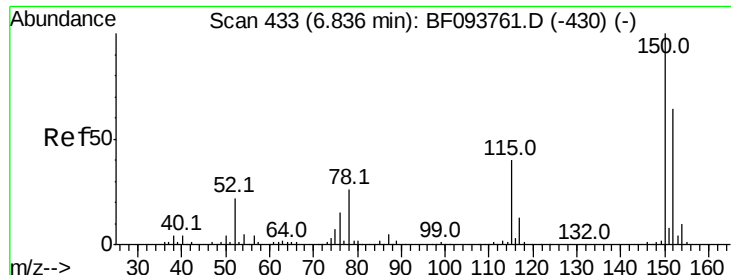
Instrument :
BNA_F
ClientSampleId :
CTMIX-4

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QLast Update : Mon Mar 20 16:03:59 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Instrument :

BNA_F

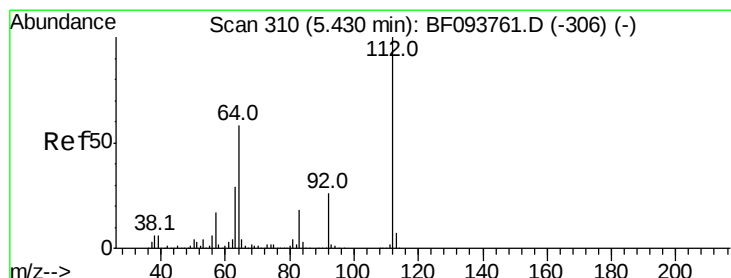
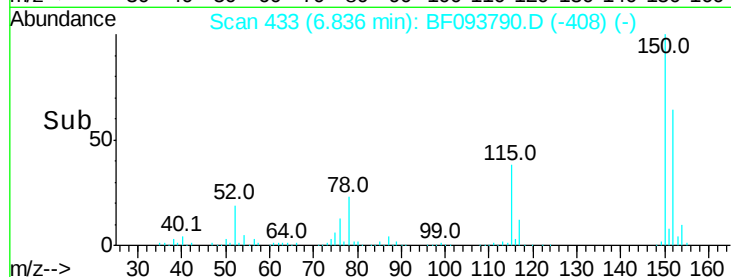
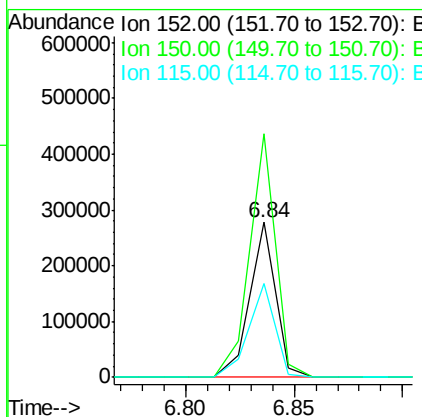
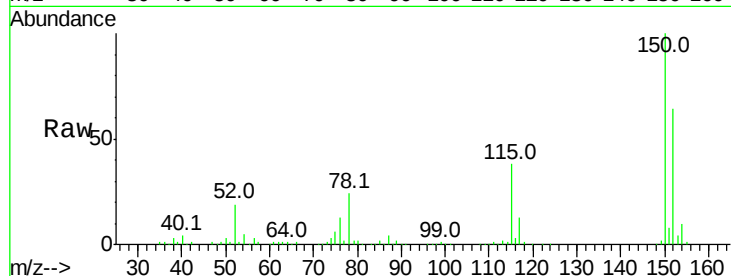
ClientSampled :

CTMIX-4

Tot Ion:	152	Resp:	229611
Ion Ratio	Lower	Upper	
152	100		
150	156.8	126.2	189.2
115	60.4	52.2	78.2

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#5

2-Fluorophenol

Concen: 2.14 ng

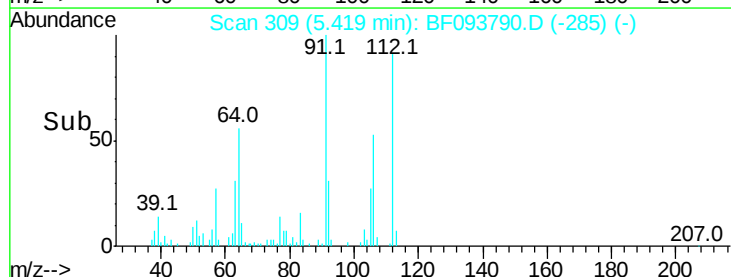
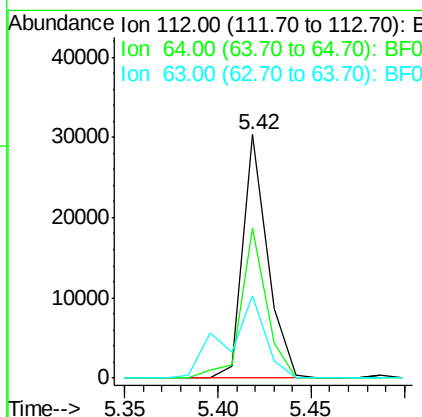
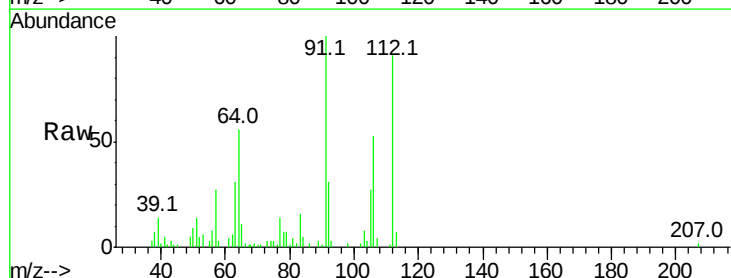
RT: 5.42 min Scan# 309

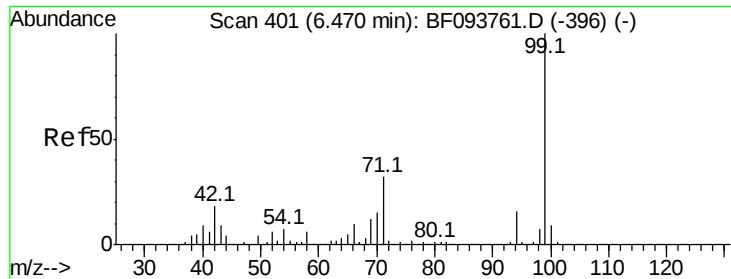
Delta R.T. -0.02 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Tgt Ion:	112	Resp:	28050
Ion Ratio	Lower	Upper	
112	100		
64	61.8	46.0	69.0
63	33.7	23.4	35.0





#7

Phenol-d6

Concen: 2.21 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.03 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Instrument :

BNA_F

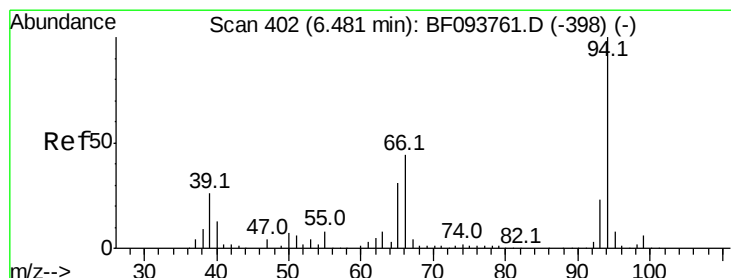
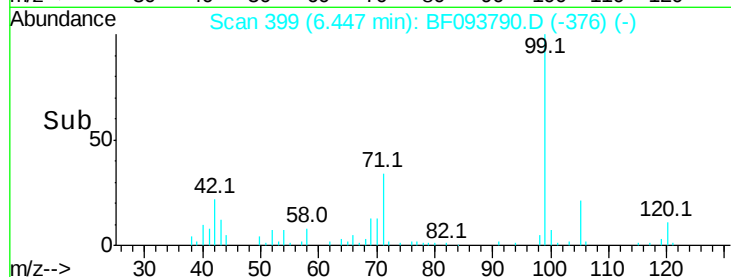
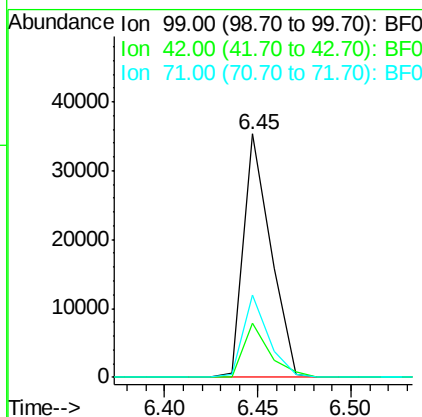
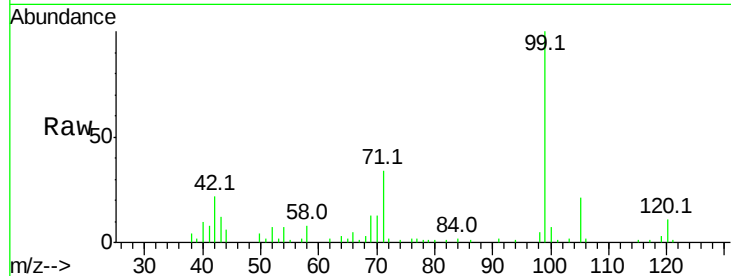
ClientSampleId :

CTMIX-4

Tot Ion:	99	Resp:	35779
Ion Ratio	Lower	Upper	
99	100		
42	22.0	13.5	20.3#
71	33.9	24.5	36.7

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#10

Phenol

Concen: 4.75 ng

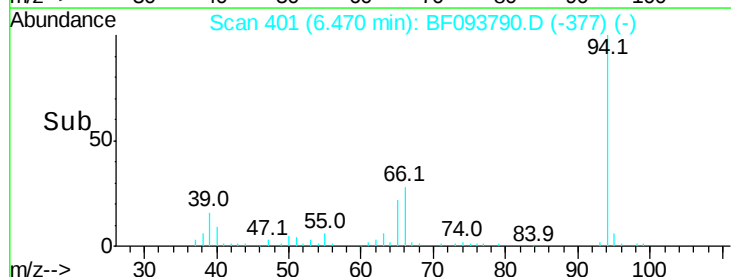
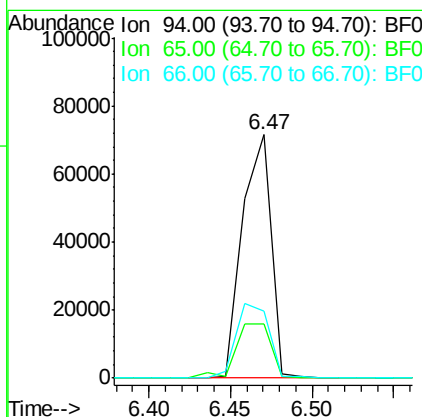
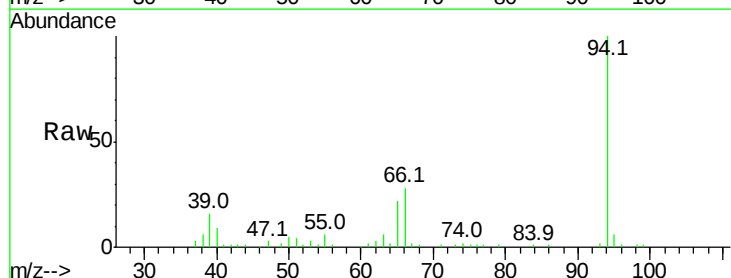
RT: 6.47 min Scan# 401

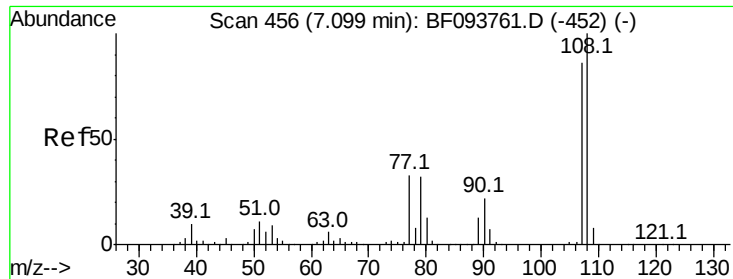
Delta R.T. -0.02 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Tgt Ion:	94	Resp:	86666
Ion Ratio	Lower	Upper	
94	100		
65	22.2	9.9	49.9
66	27.5	23.1	63.1





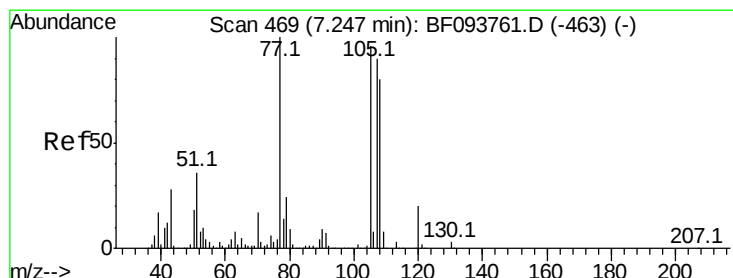
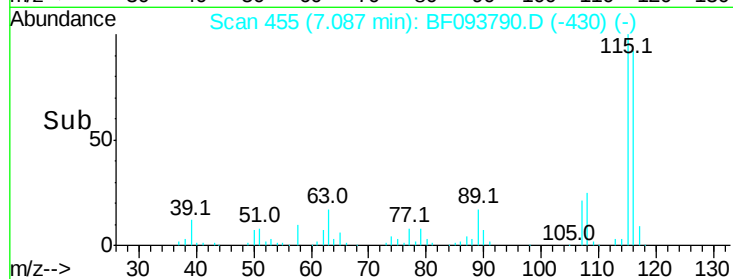
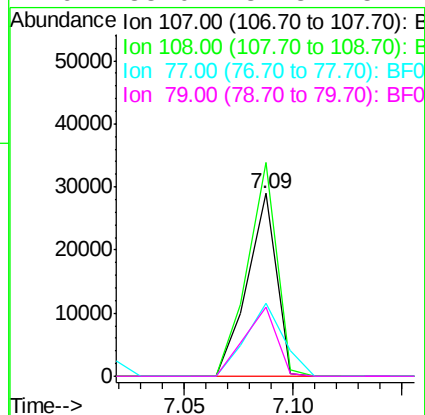
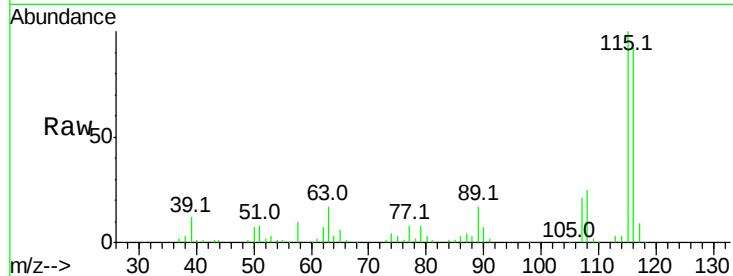
#17
2-Methylphenol
Concen: 2.14 ng
RT: 7.09 min Scan# 455
Delta R.T. -0.01 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Instrument :
BNA_F
ClientSampled :
CTMIX-4

Tot Ion:	107	Resp:	27071
Ion Ratio	Lower	Upper	
107	100		
108	116.9	93.4	140.0
77	39.7	35.8	53.6
79	38.0	34.8	52.2

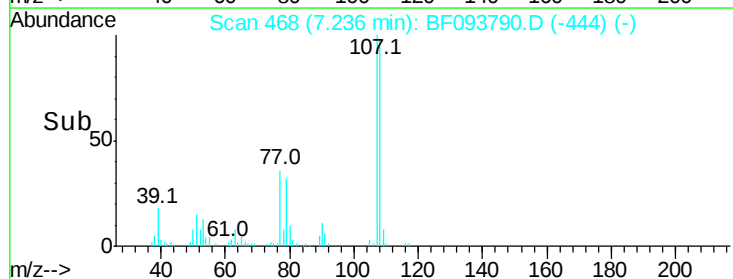
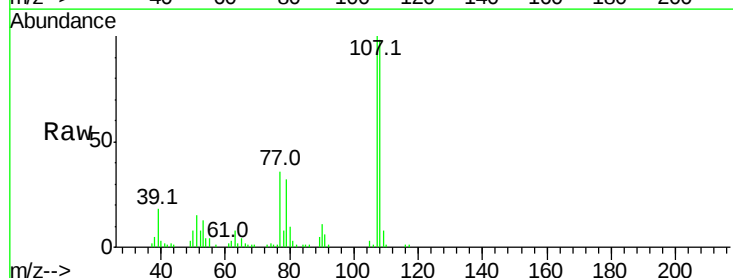
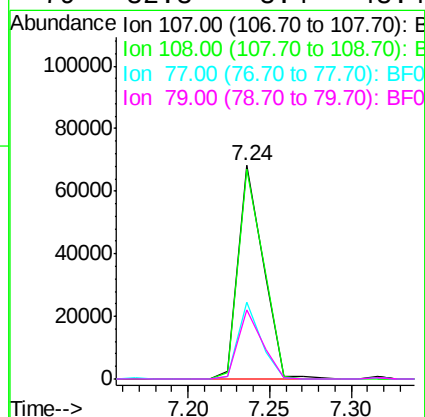
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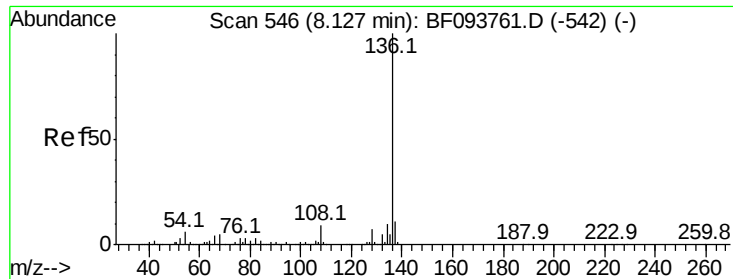
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#20
3+4-Methylphenols
Concen: 4.80 ng
RT: 7.24 min Scan# 468
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Tgt Ion:	107	Resp:	71958
Ion Ratio	Lower	Upper	
107	100		
108	98.0	71.0	111.0
77	35.7	90.5	130.5#
79	32.3	8.4	48.4





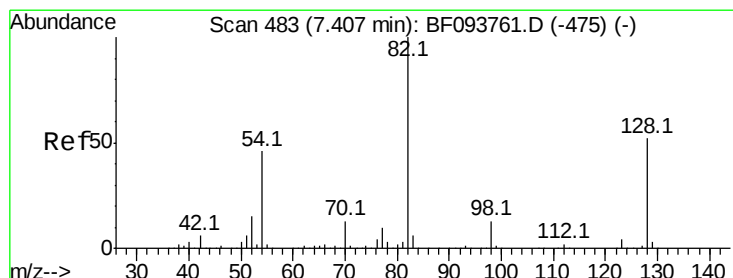
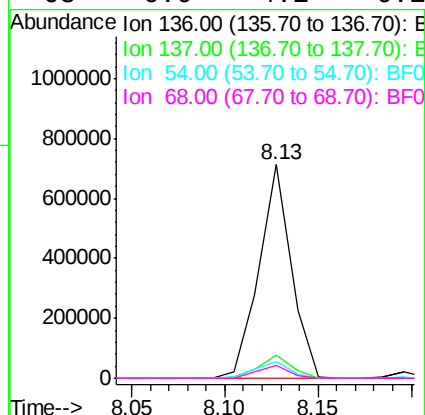
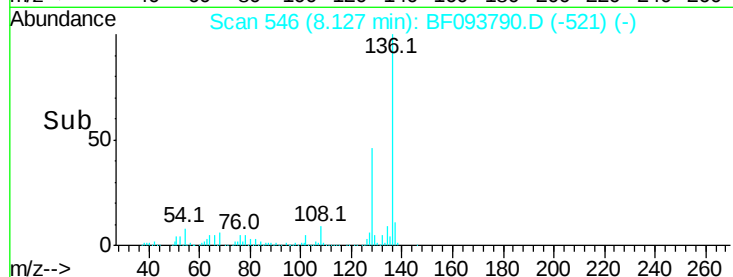
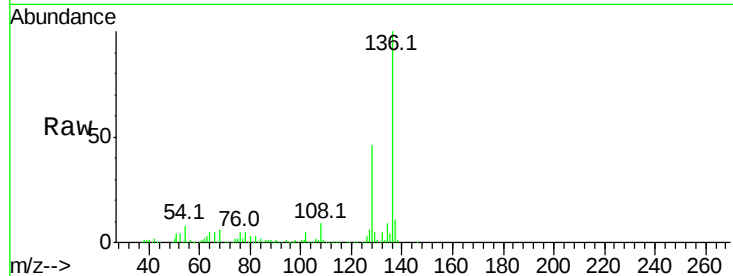
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 546
Delta R.T. -0.01 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Instrument :
BNA_F
ClientSampleId :
CTMIX-4

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.1	8.5	12.7
54	7.6	4.9	7.3#
68	6.0	4.1	6.1

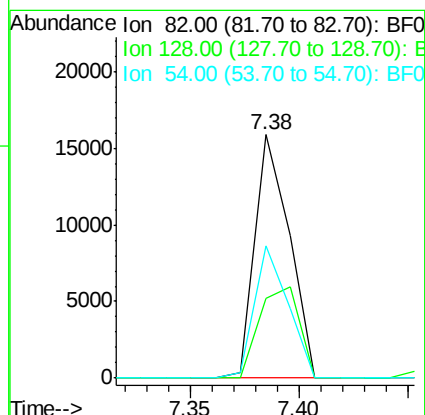
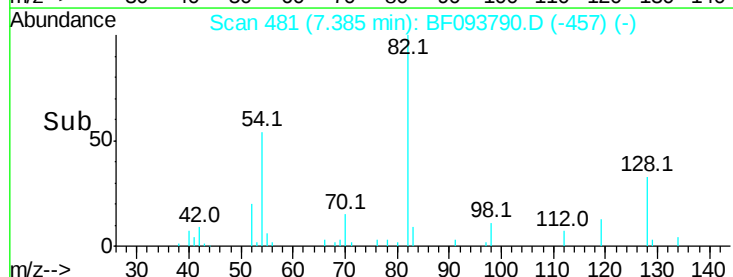
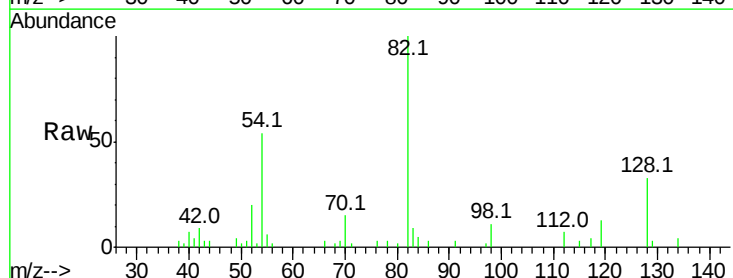
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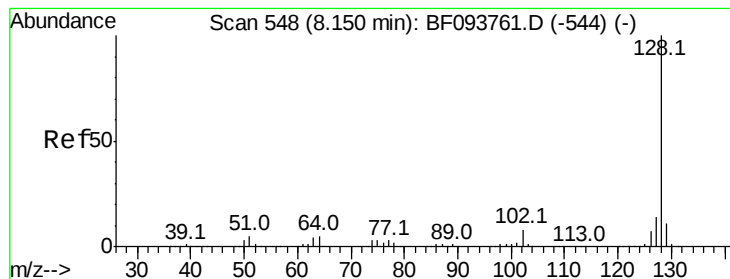
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#23
Nitrobenzene-d5
Concen: 1.16 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	33.0	34.0	51.0#
54	54.1	42.2	63.2





#31

Naphthalene

Concen: 152.96 ng

RT: 8.16 min Scan# 549

Delta R.T. 0.00 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Instrument :

BNA_F

ClientSampleId :

CTMIX-4

Tot Ion:128 Resp: 6066262

Ion Ratio Lower Upper

128 100

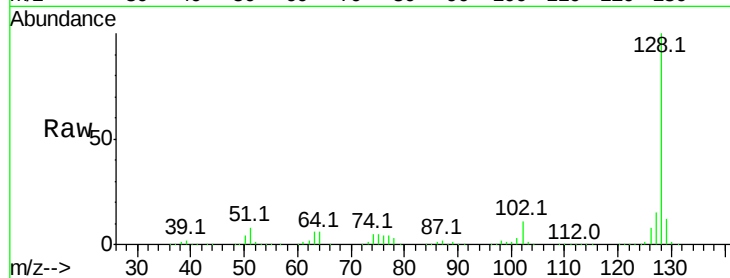
129 12.1 9.0 13.6

127 15.3 10.8 16.2

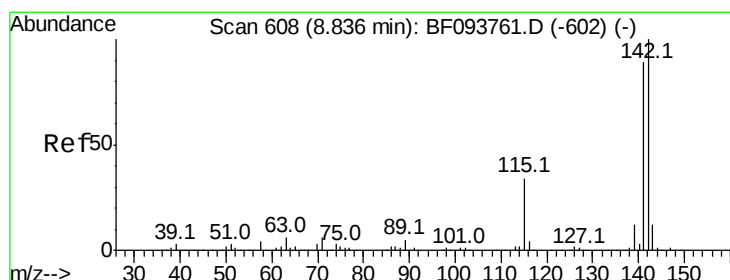
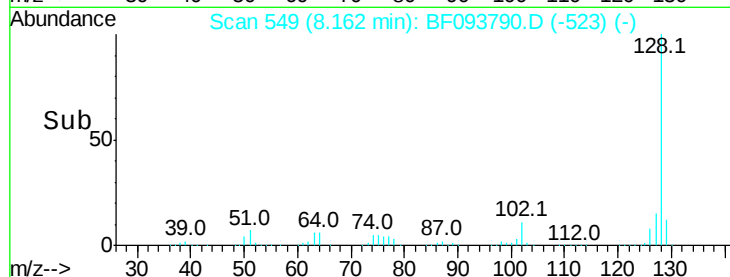
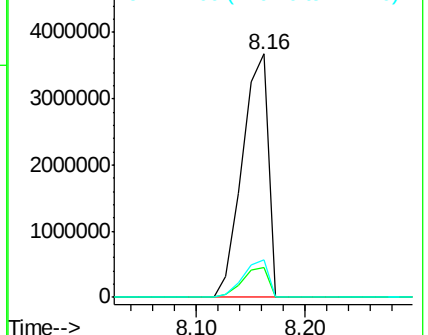
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Abundance Ion 128.00 (127.70 to 128.70): E
5000000
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 39.98 ng

RT: 8.84 min Scan# 608

Delta R.T. -0.01 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

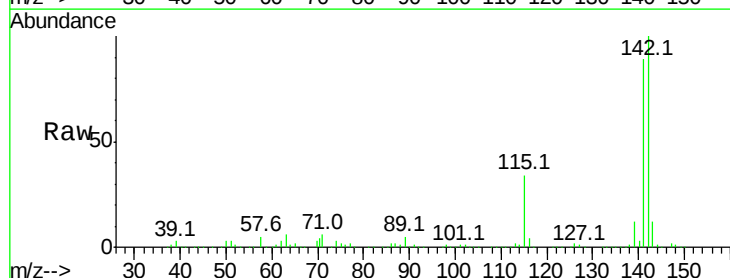
Tgt Ion:142 Resp: 1035112

Ion Ratio Lower Upper

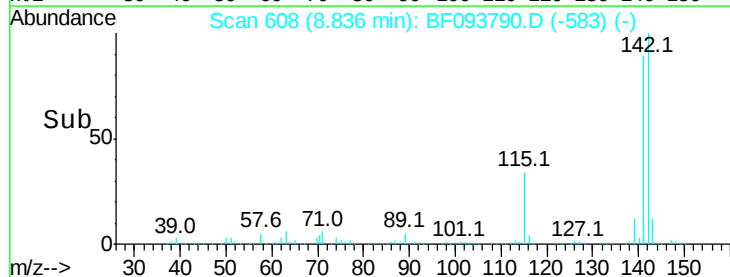
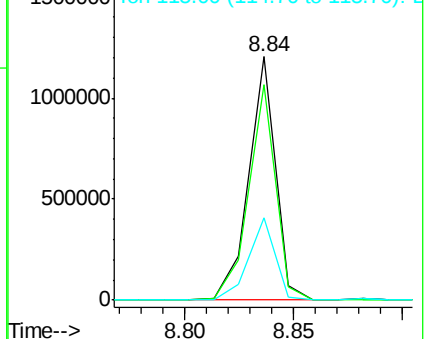
142 100

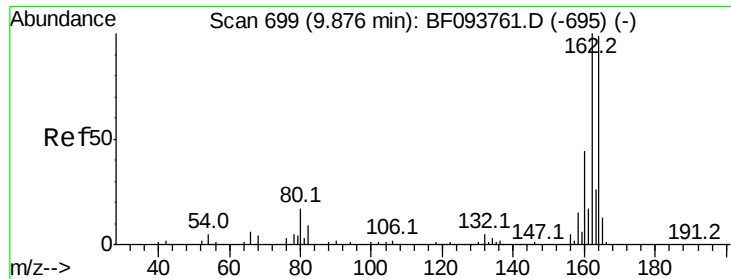
141 88.6 71.3 106.9

115 33.6 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E
1500000
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





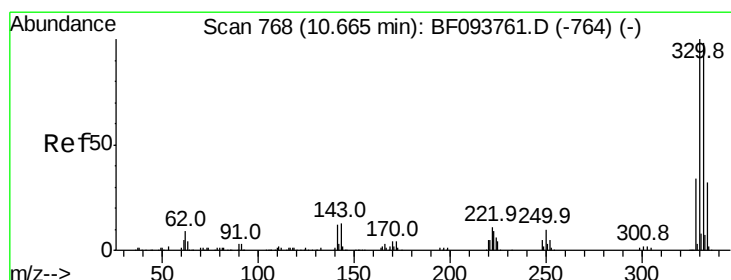
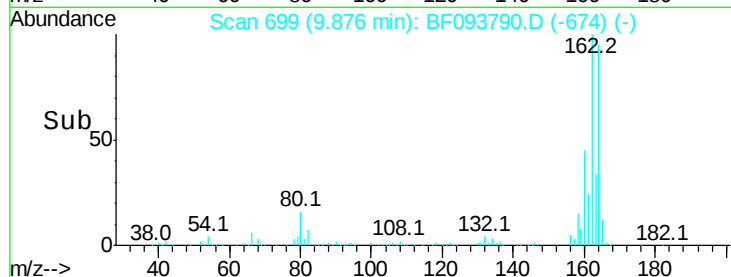
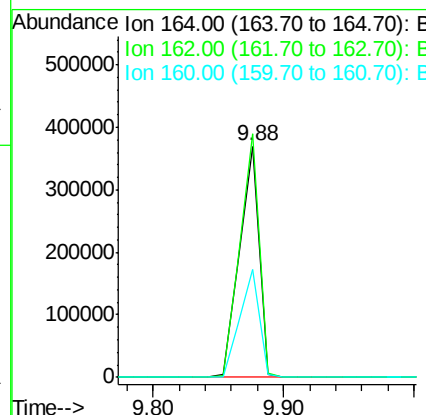
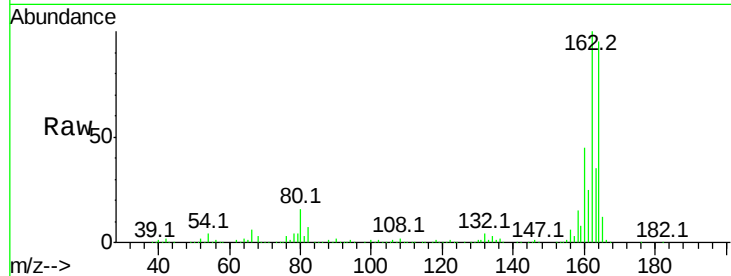
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.88 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: BF093790.D
 Acq: 21 Mar 2017 3:12

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.2	82.6	123.8	
160	46.9	36.2	54.2	

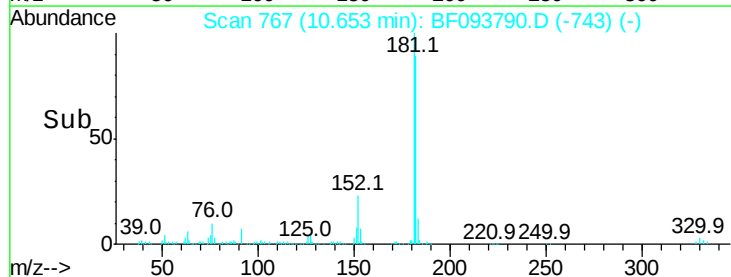
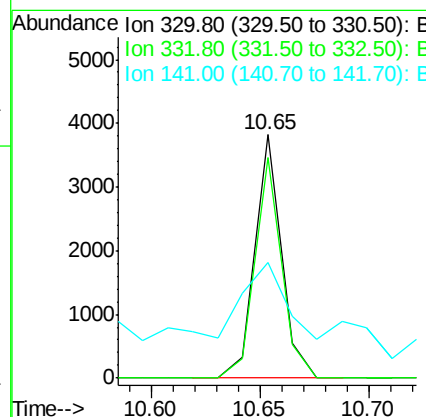
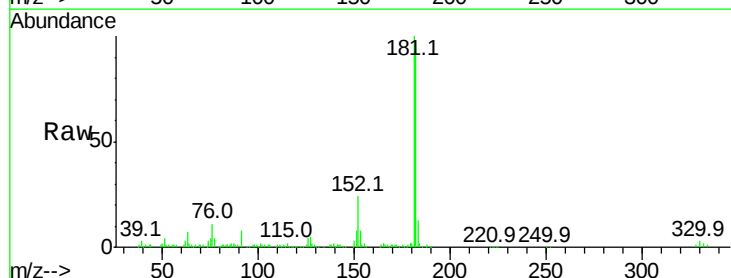
Manual Integrations
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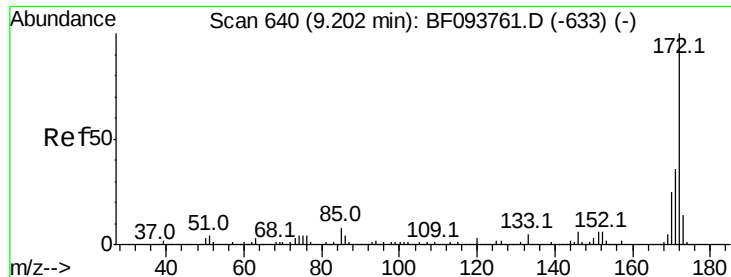
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#41
 2,4,6-Tribromophenol
 Concen: 1.09 ng
 RT: 10.65 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF093790.D
 Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	91.9	76.6	115.0	
141	96.1	31.4	47.2	





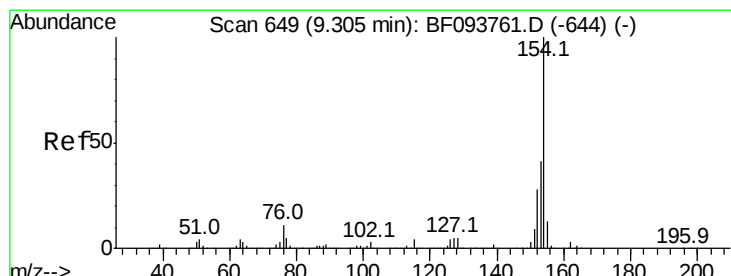
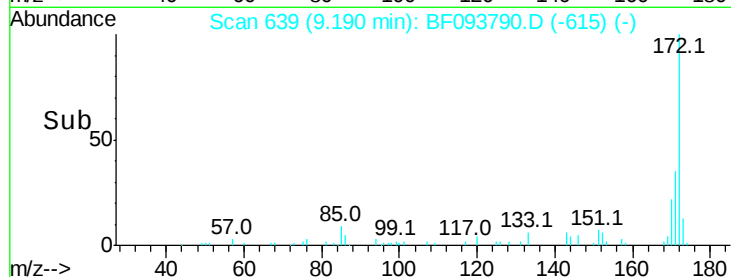
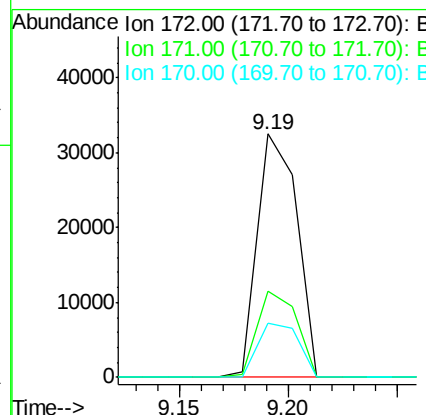
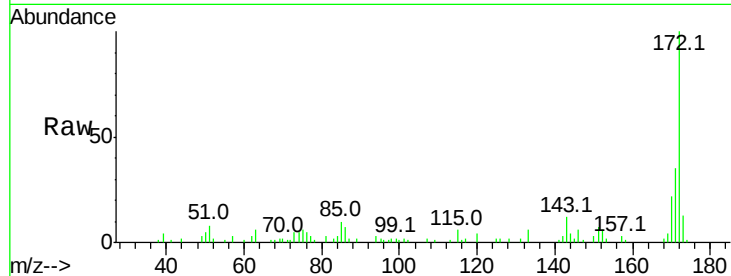
#44
2-Fluorobiphenyl
Concen: 1.82 ng
RT: 9.19 min Scan# 639
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Instrument :
BNA_F
ClientSampleId :
CTMIX-4

Tot Ion	Ratio	Resp	Lower	Upper
172	100	41356		
171	35.2		29.6	44.4
170	22.5		19.8	29.8

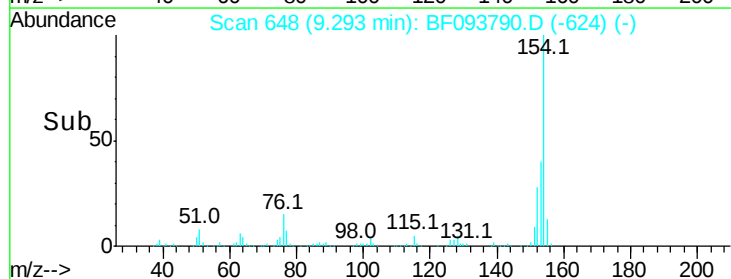
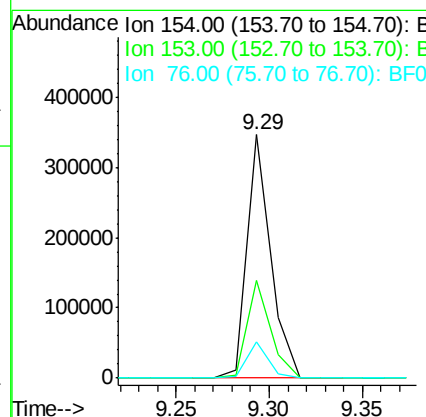
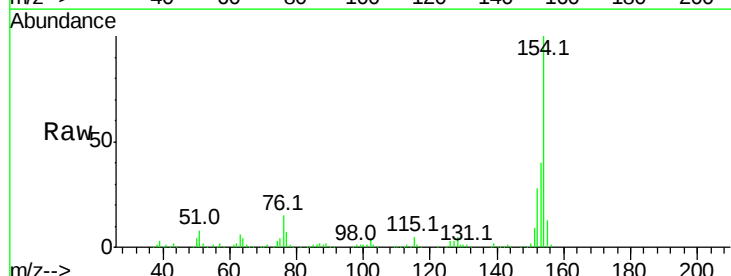
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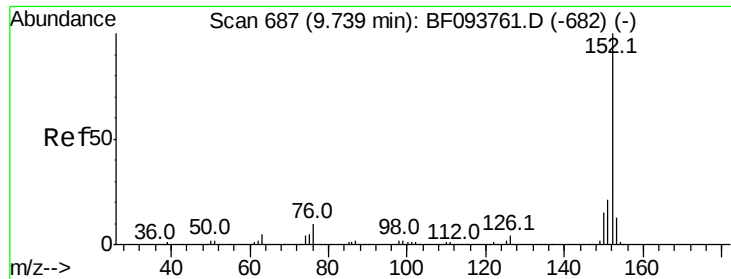
mohammad
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#45
1,1'-Biphenyl
Concen: 9.84 ng
RT: 9.29 min Scan# 648
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	305172		
153	40.3		21.2	61.2
76	15.1		0.0	29.9





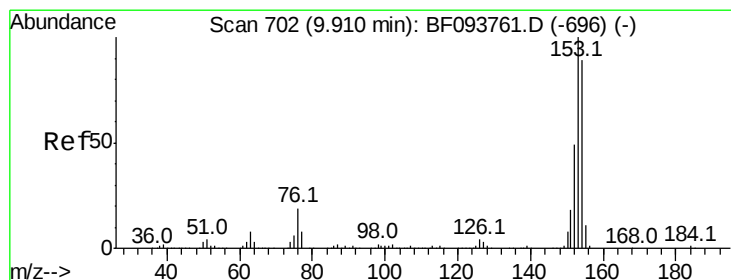
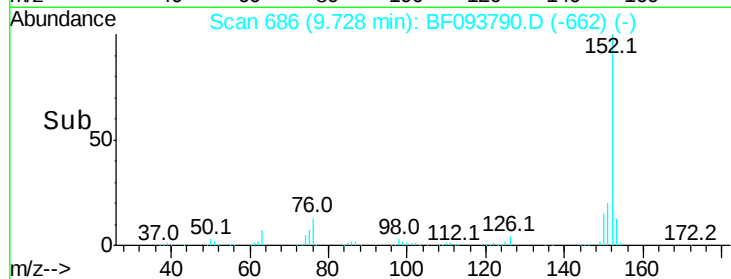
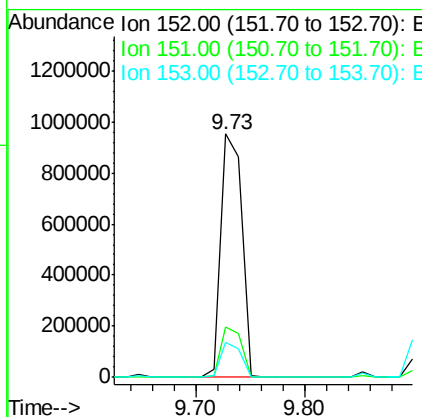
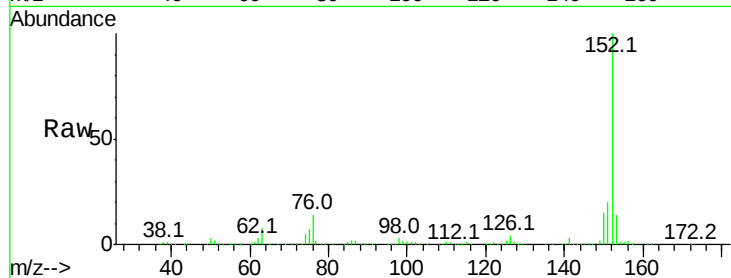
#48
Acenaphthylene
Concen: 32.94 ng
RT: 9.73 min Scan# 686
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Instrument :
BNA_F
ClientSampleId :
CTMIX-4

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.8	25.2
153	14.2	10.8	16.2

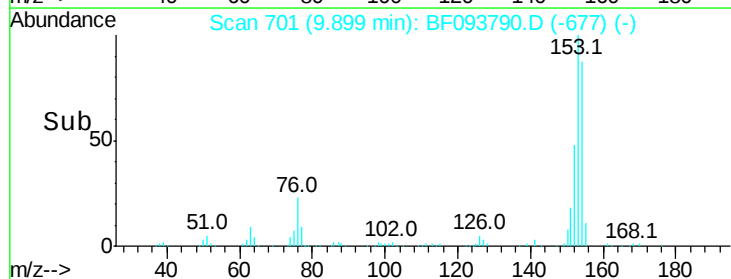
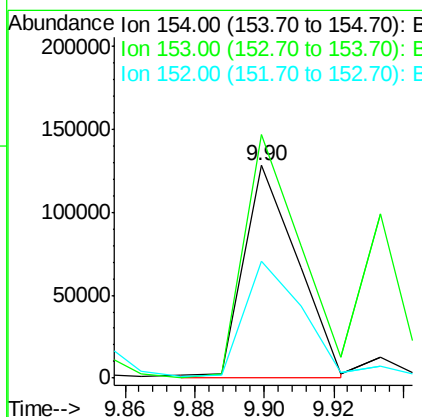
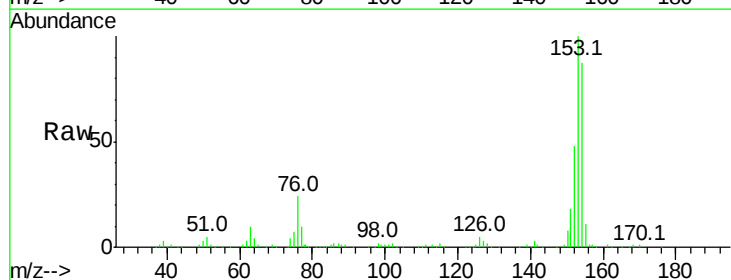
Manual Integrations
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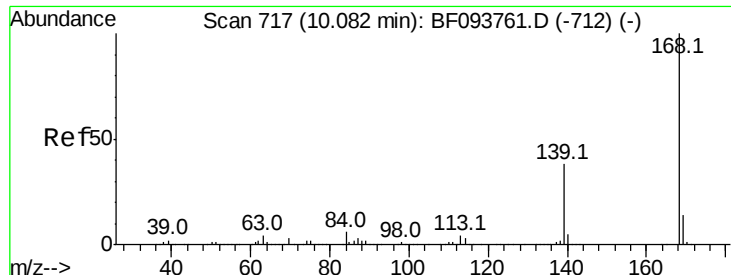
mohammad
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#51
Acenaphthene
Concen: 5.92 ng m
RT: 9.90 min Scan# 701
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.5	90.5	135.7
152	55.0	43.6	65.4





#54

Dibenzenofuran

Concen: 32.00 ng

RT: 10.08 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Instrument :

BNA_F

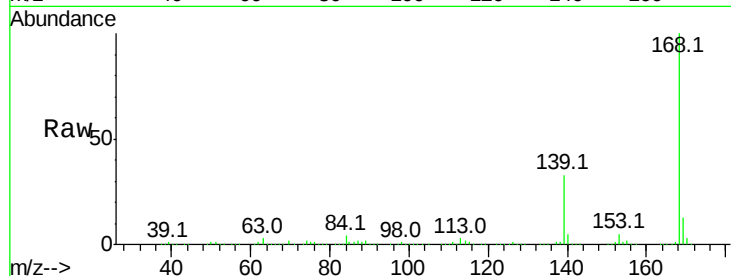
ClientSampled :

CTMIX-4

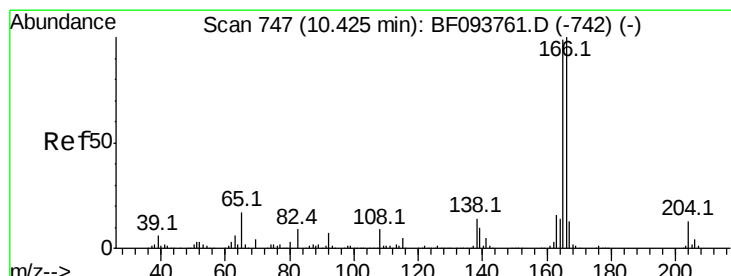
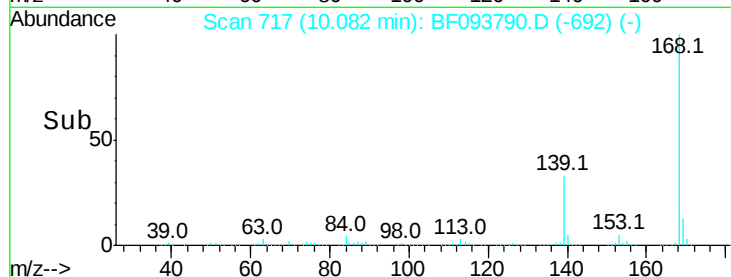
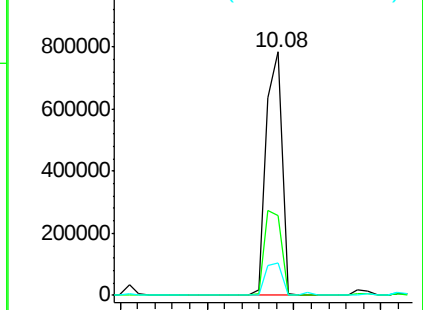
Tot Ion:	168	Resp:	995651
Ion Ratio	Lower	Upper	
168	100		
139	32.9	30.6	45.8
169	13.4	10.8	16.2

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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: 43.92 ng m

RT: 10.42 min Scan# 747

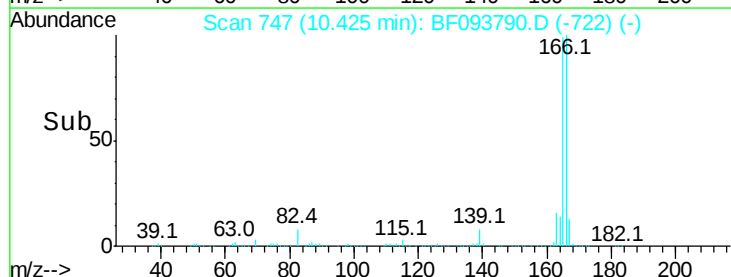
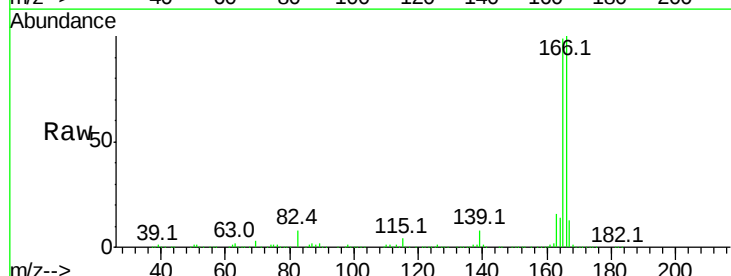
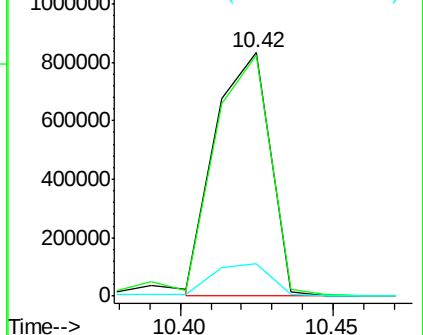
Delta R.T. -0.01 min

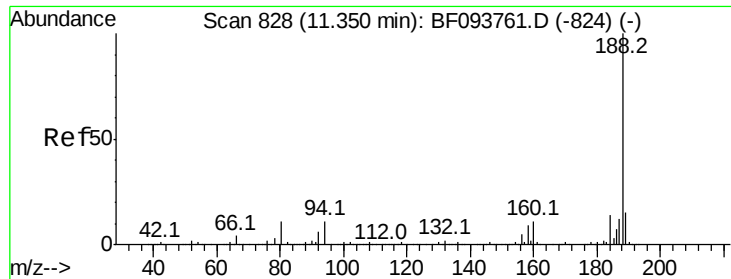
Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Tgt Ion:	166	Resp:	1046597
Ion Ratio	Lower	Upper	
166	100		
165	98.9	78.8	118.2
167	13.2	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.35 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Instrument :

BNA_F

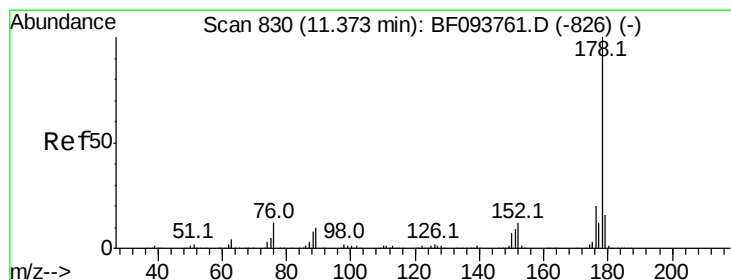
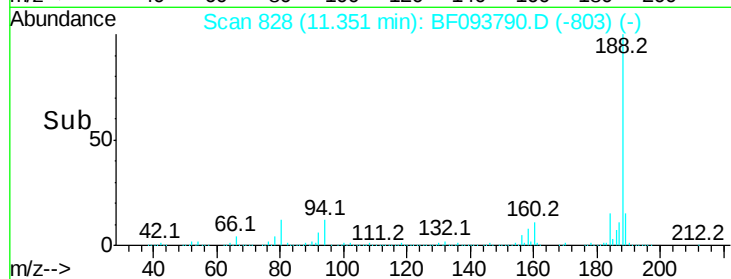
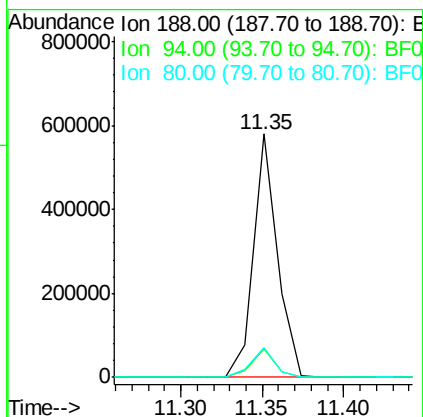
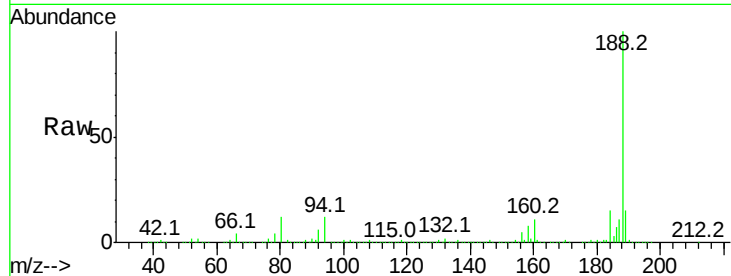
ClientSampleId :

CTMIX-4

Tot Ion:	188	Resp:	591673
Ion Ratio	Lower	Upper	
188	100		
94	11.9	9.4	14.2
80	12.3	10.2	15.2

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#70

Phenanthrene

Concen: 91.85 ng

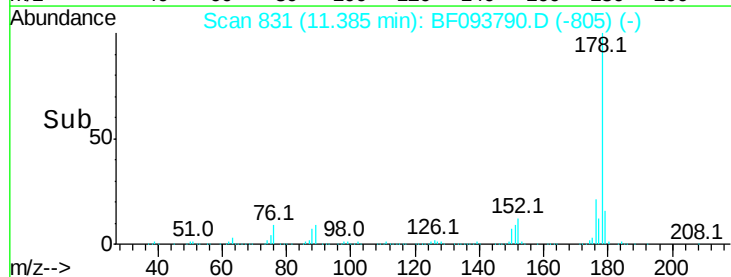
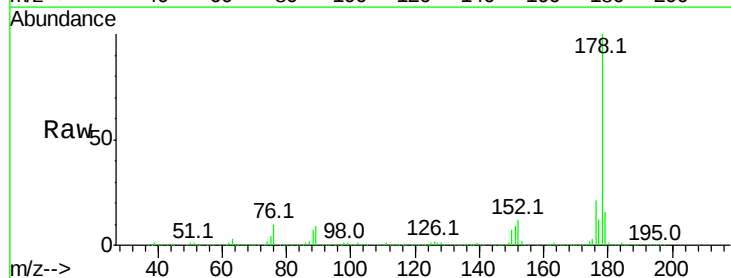
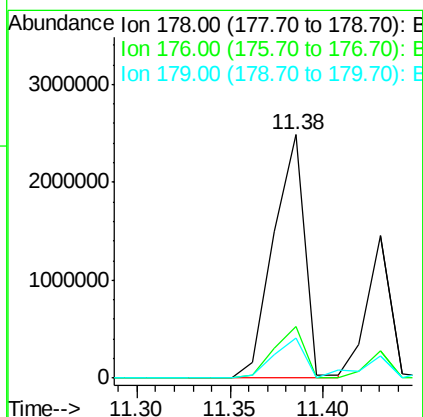
RT: 11.38 min Scan# 831

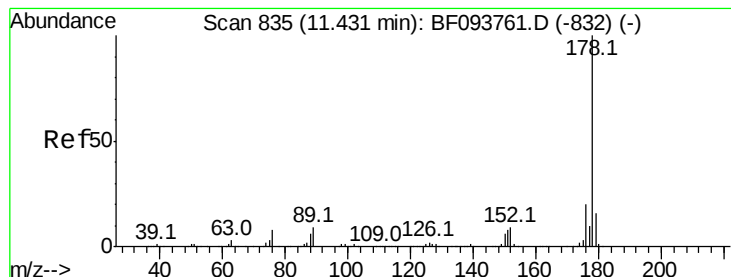
Delta R.T. 0.00 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Tgt Ion:	178	Resp:	2894345
Ion Ratio	Lower	Upper	
178	100		
176	21.0	16.2	24.4
179	16.4	12.6	19.0





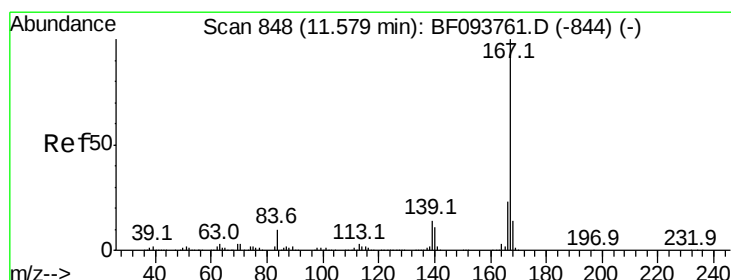
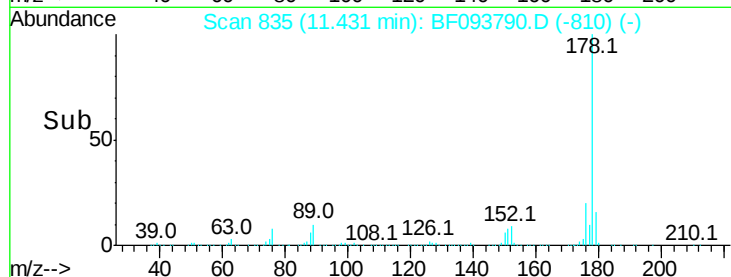
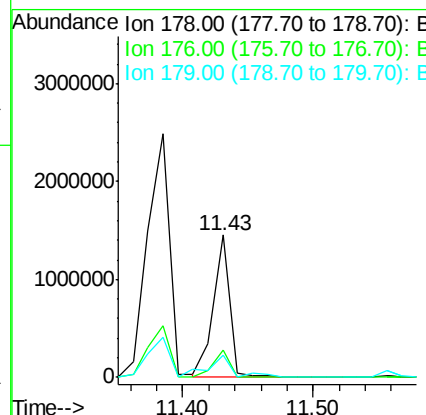
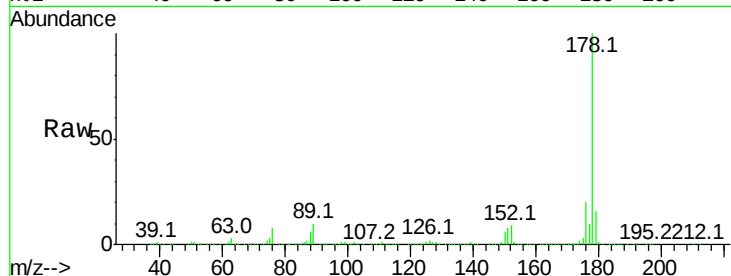
#71
 Anthracene
 Concen: 39.46 ng
 RT: 11.43 min Scan# 835
 Delta R.T. -0.01 min
 Lab File: BF093790.D
 Acq: 21 Mar 2017 3:12

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4

Tot Ion:178 Resp: 1280038
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.8 23.8
 179 16.0 12.7 19.1

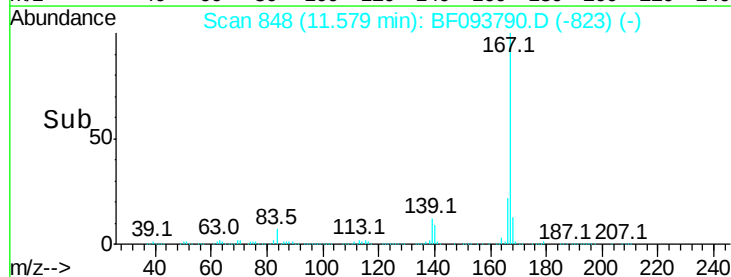
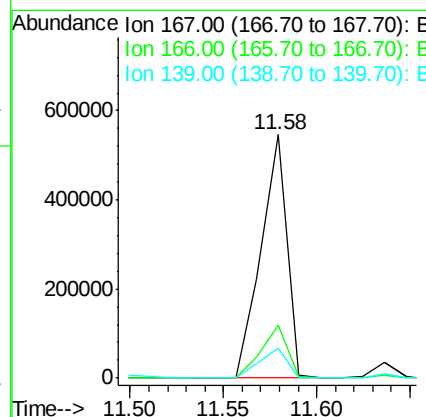
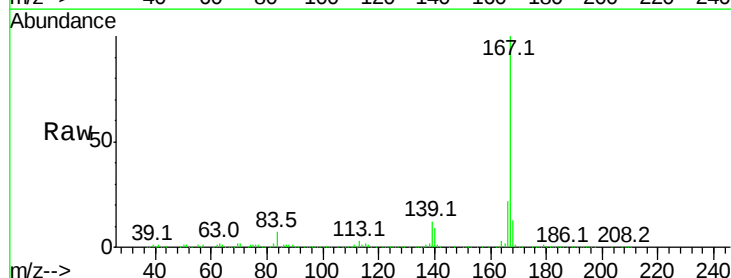
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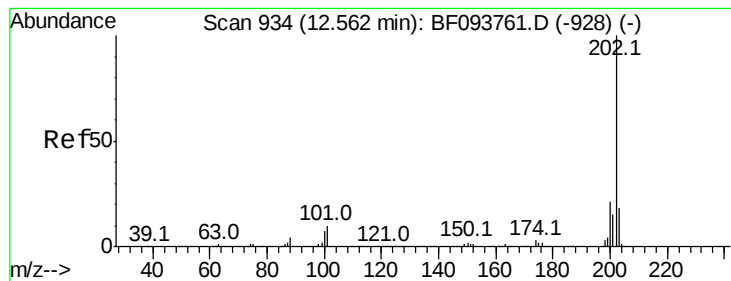
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#72
 Carbazole
 Concen: 16.61 ng
 RT: 11.58 min Scan# 848
 Delta R.T. -0.01 min
 Lab File: BF093790.D
 Acq: 21 Mar 2017 3:12

Tgt Ion:167 Resp: 533368
 Ion Ratio Lower Upper
 167 100
 166 21.9 18.1 27.1
 139 12.4 11.7 17.5





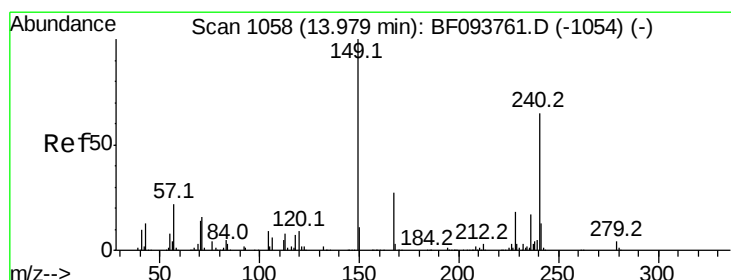
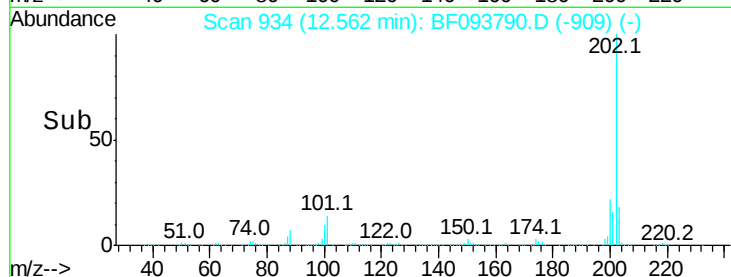
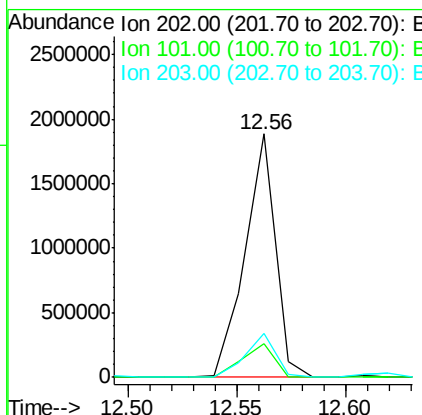
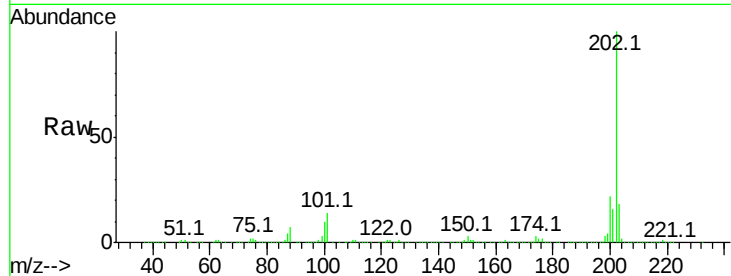
#74
 Fluoranthene
 Concen: 56.64 ng
 RT: 12.56 min Scan# 934
 Delta R.T. -0.01 min
 Lab File: BF093790.D
 Acq: 21 Mar 2017 3:12

Instrument :
 BNA_F
 ClientSampled :
 CTMIX-4

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.0	0.0	33.2
203	18.2	0.0	38.1

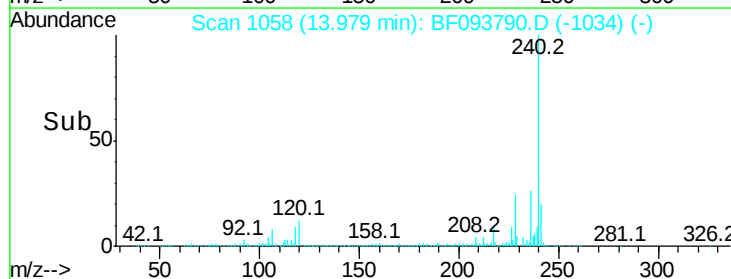
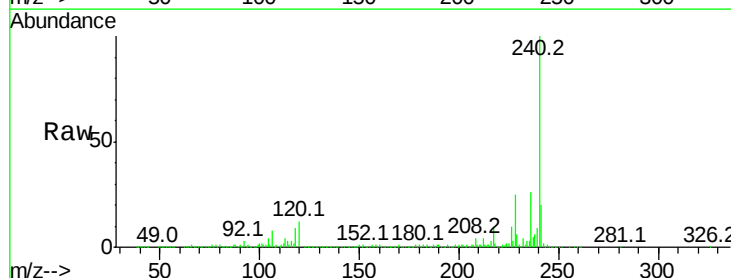
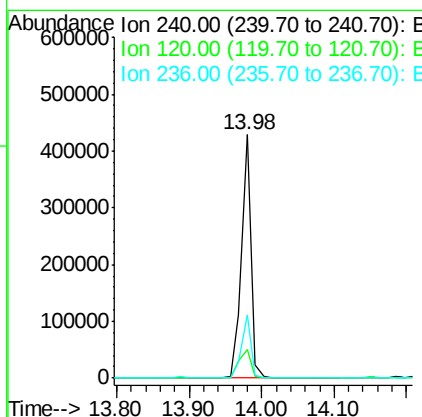
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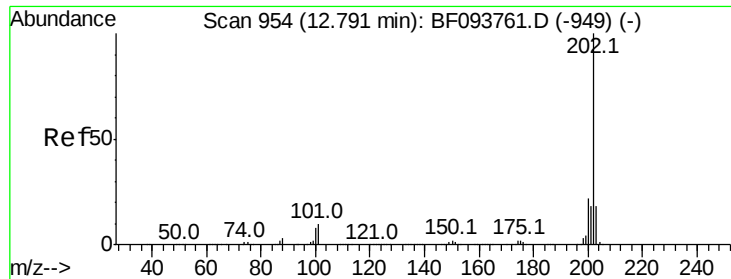
mohammad
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.98 min Scan# 1058
 Delta R.T. -0.02 min
 Lab File: BF093790.D
 Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.9	5.8	8.8#
236	26.1	20.5	30.7





#77

Pvrene

Concen: 50.56 ng

RT: 12.79 min Scan# 954

Delta R.T. -0.01 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Instrument :

BNA_F

ClientSampleId :

CTMIX-4

Tot Ion:202 Resp: 1667222

Ion Ratio Lower Upper

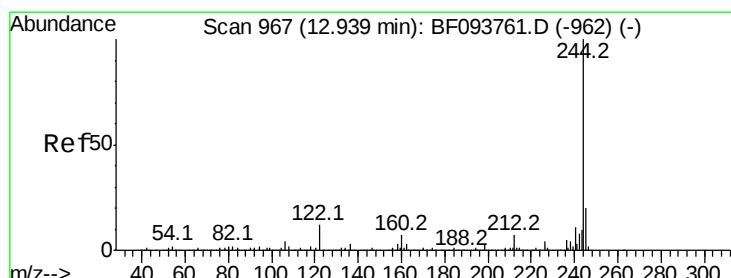
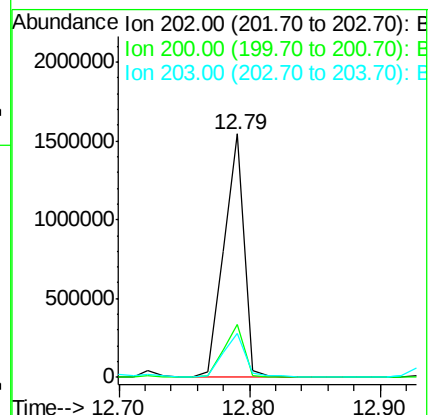
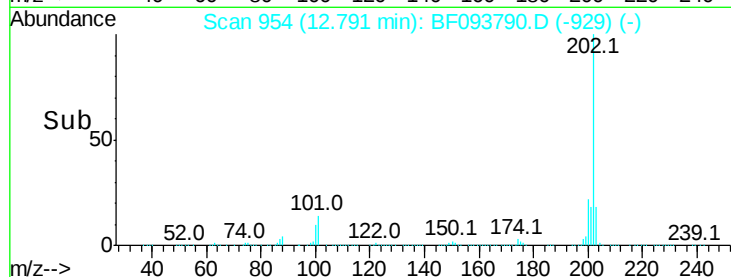
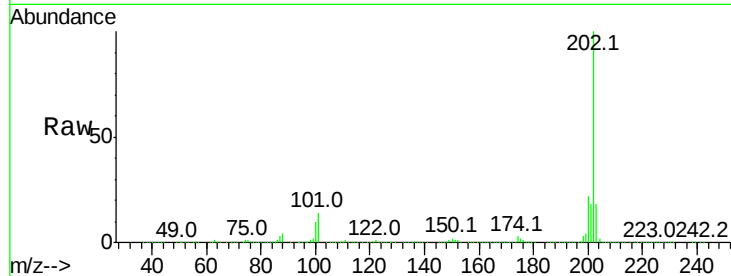
202 100

200 21.9 17.6 26.4

203 18.2 14.4 21.6

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#78

Terphenyl-d14

Concen: 1.46 ng

RT: 12.93 min Scan# 966

Delta R.T. -0.02 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

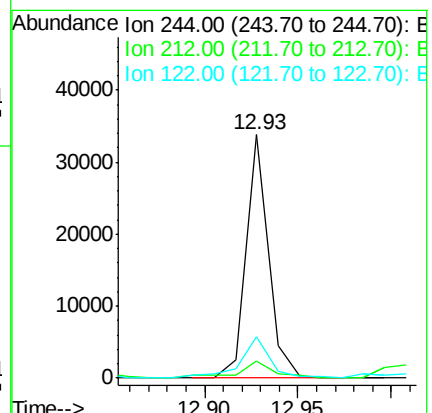
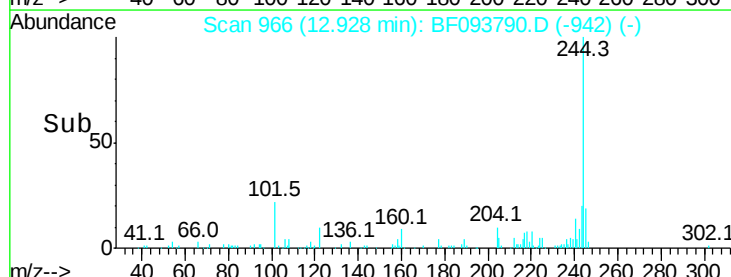
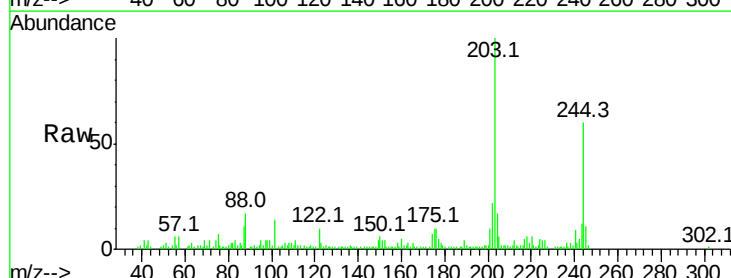
Tgt Ion:244 Resp: 28304

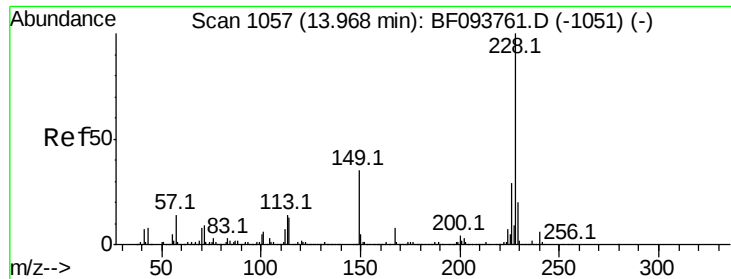
Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

122 17.0 10.3 15.5#





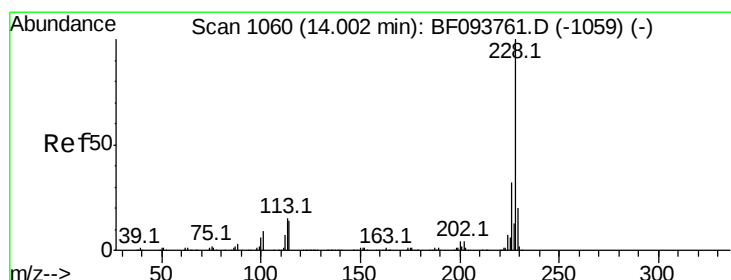
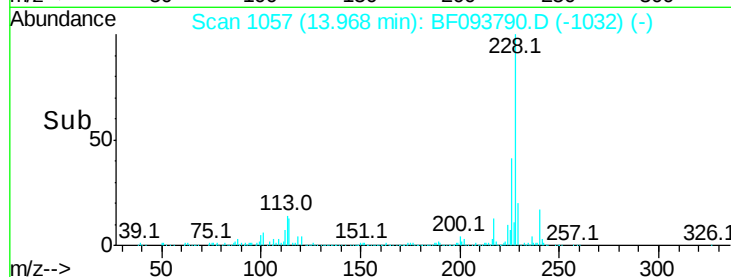
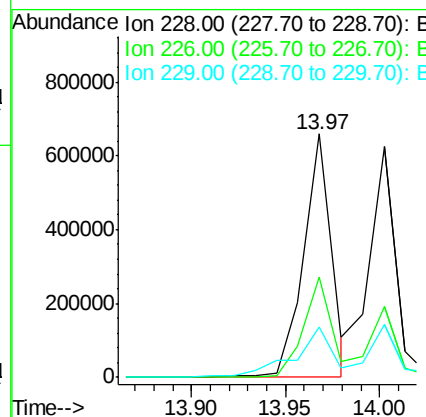
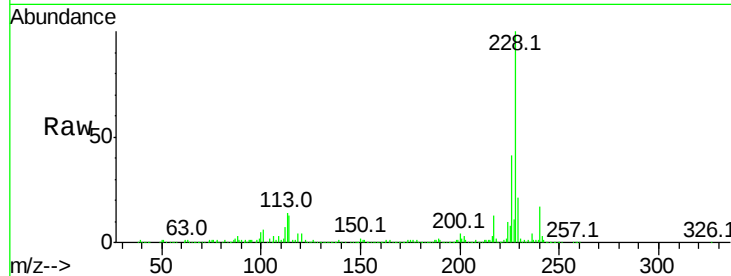
#80
Benzo(a)anthracene
Concen: 27.39 ng m
RT: 13.97 min Scan# 1057
Delta R.T. -0.01 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Instrument :
BNA_F
ClientSampled :
CTMIX-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	41.2	22.6	33.8
229	20.6	16.3	24.5

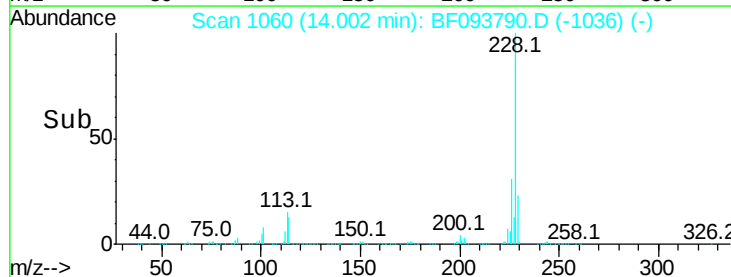
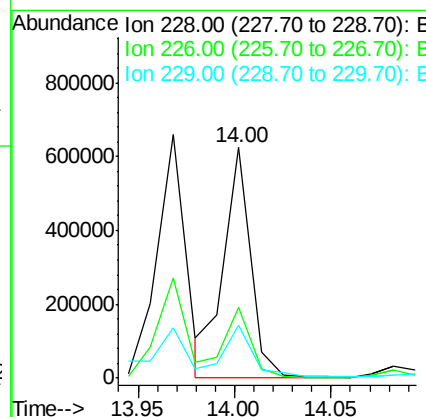
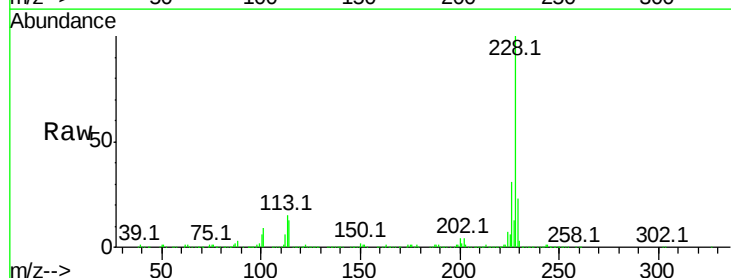
Manual Integrations
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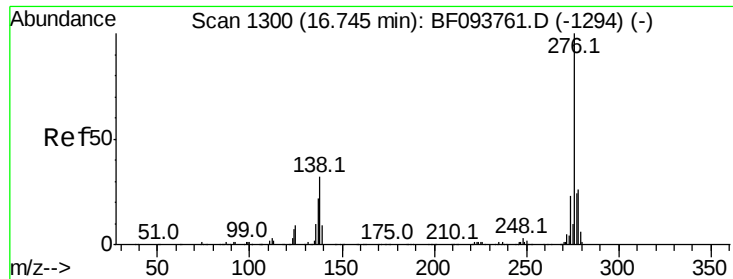
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#82
Chrysene
Concen: 24.47 ng m
RT: 14.00 min Scan# 1060
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.9	37.3
229	23.0	15.8	23.6





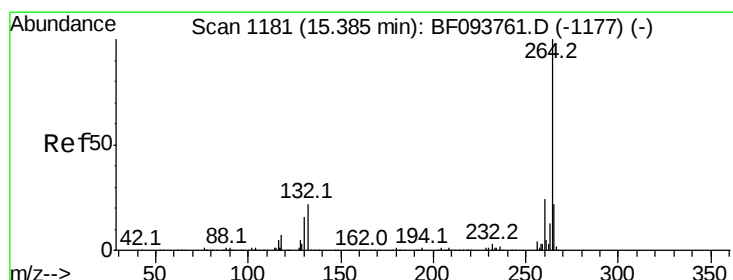
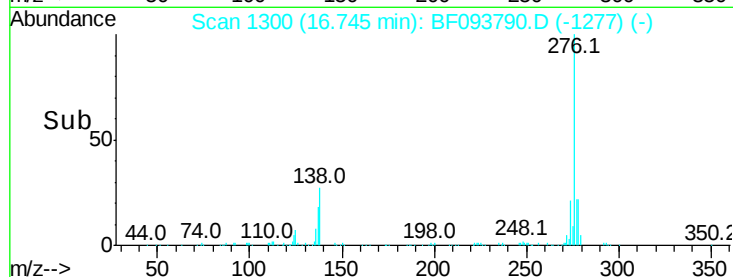
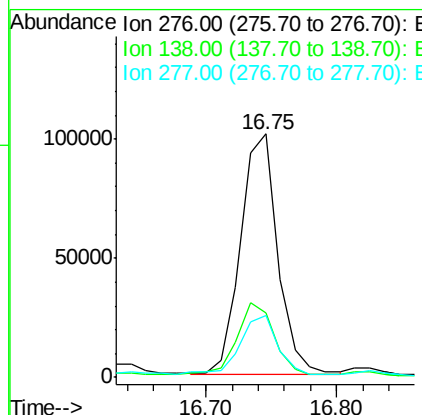
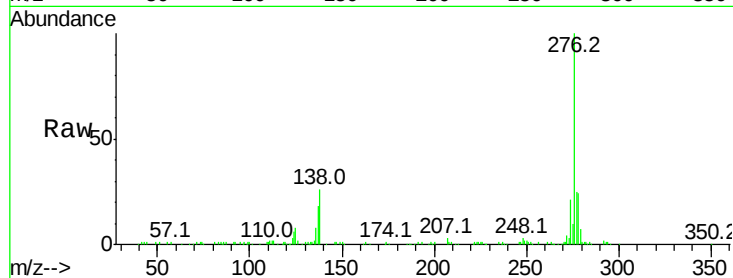
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.91 ng
RT: 16.75 min Scan# 1300
Delta R.T. -0.03 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Instrument :
BNA_F
ClientSampled :
CTMIX-4

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.1	27.8	41.6
277	25.0	20.2	30.4

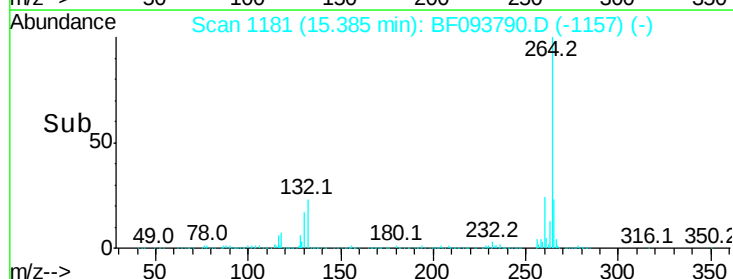
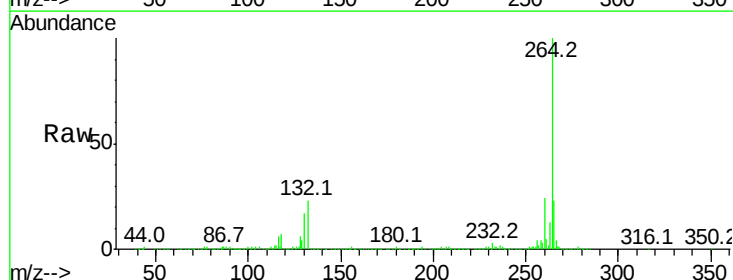
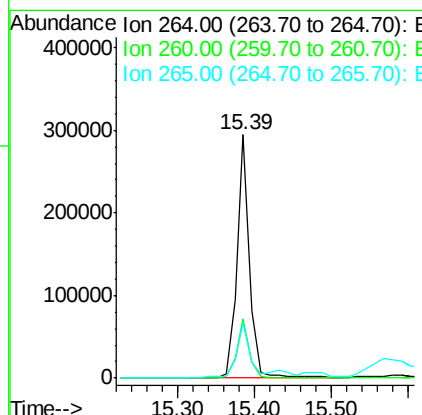
Manual Integrations
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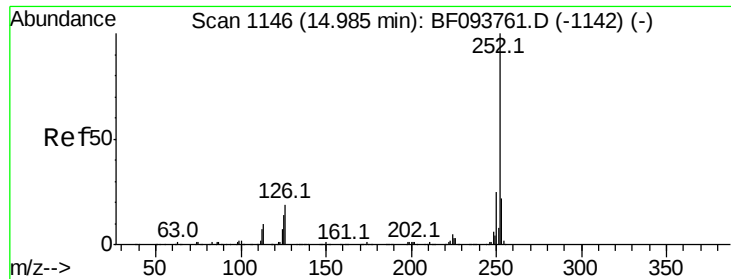
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	22.8	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 24.76 ng m

RT: 14.99 min Scan# 1146

Delta R.T. -0.02 min

Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Instrument :

BNA_F

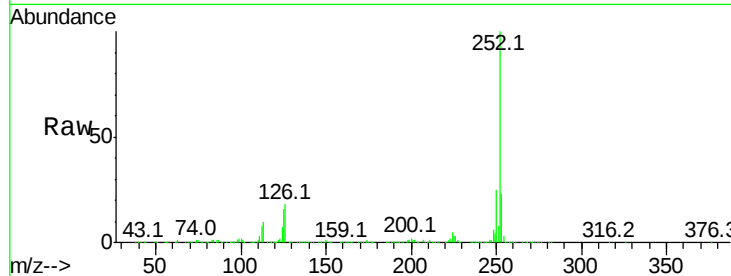
ClientSampled :

CTMIX-4

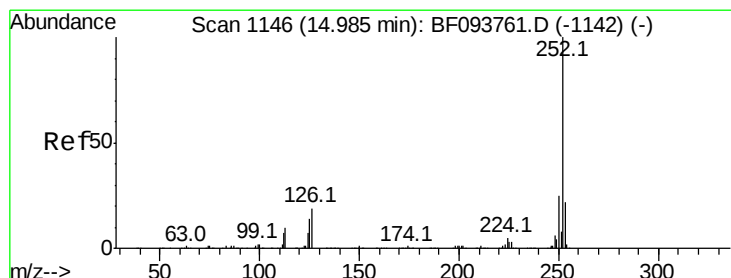
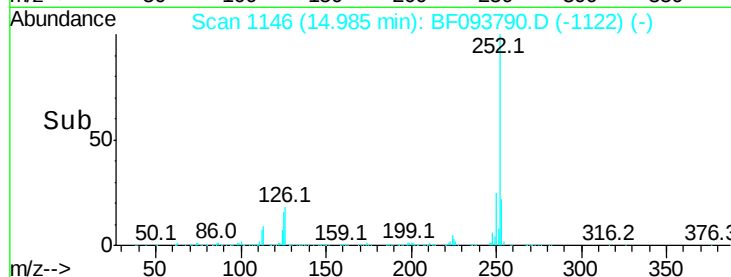
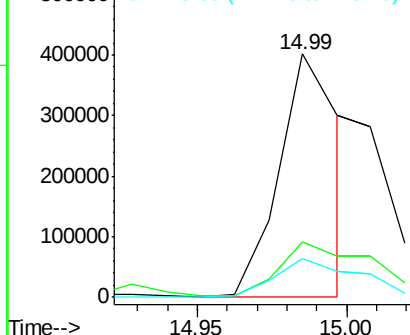
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	15.8	9.8	14.8

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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: 15.50 ng m

RT: 15.00 min Scan# 1147

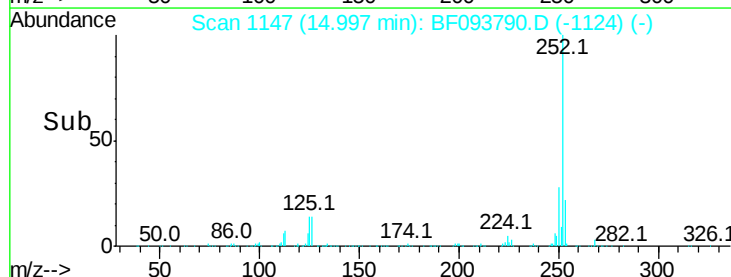
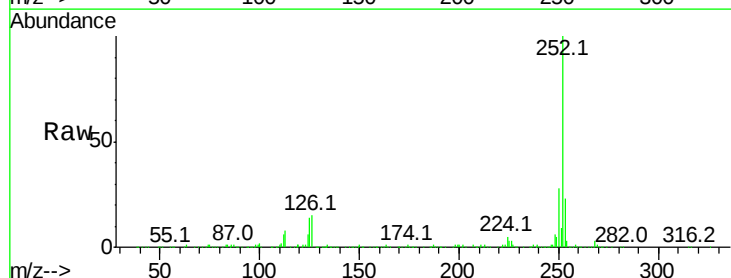
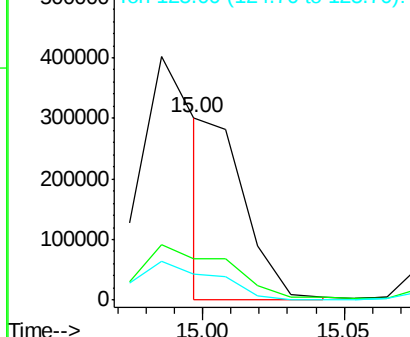
Delta R.T. -0.03 min

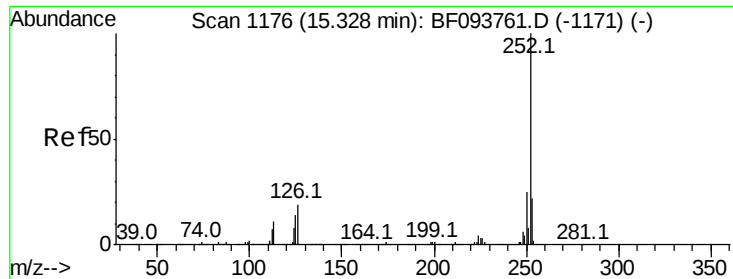
Lab File: BF093790.D

Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	14.3	13.1	19.7

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





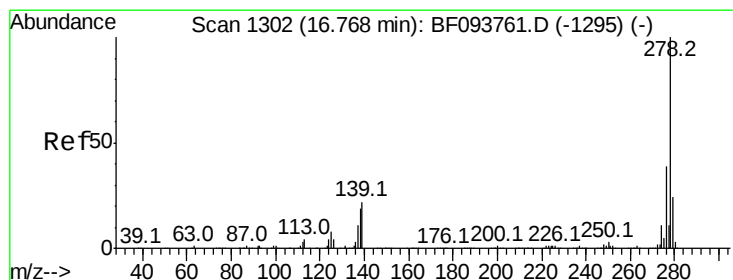
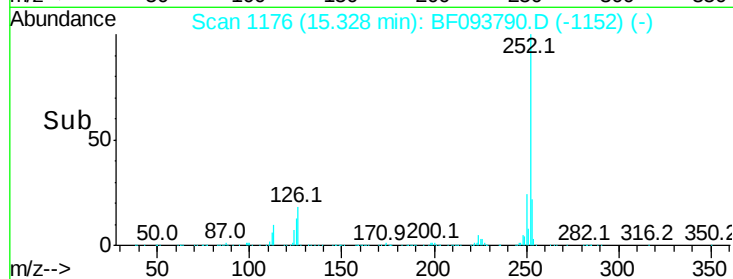
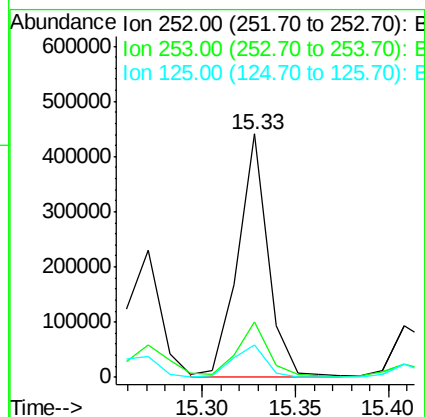
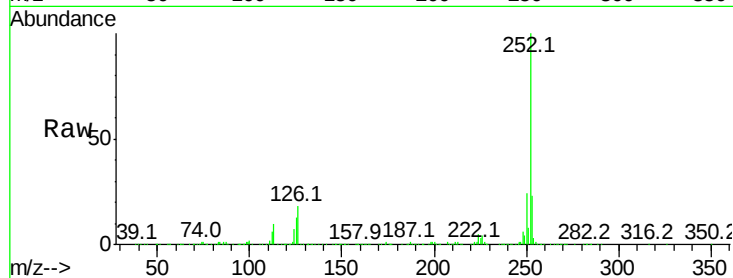
#89
Benzo(a)pyrene
Concen: 26.21 ng
RT: 15.33 min Scan# 1176
Delta R.T. -0.02 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Instrument :
BNA_F
Client Sampled :
CTMIX-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	13.4	11.0	16.4

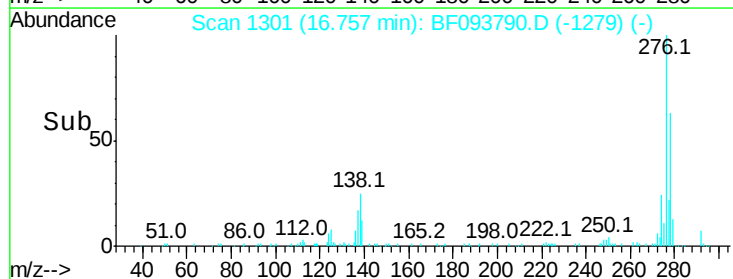
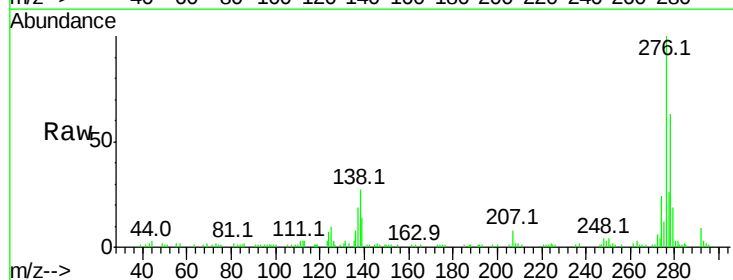
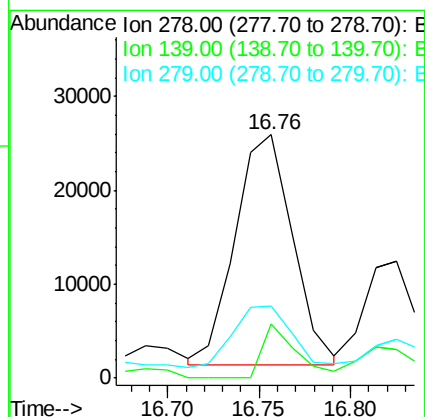
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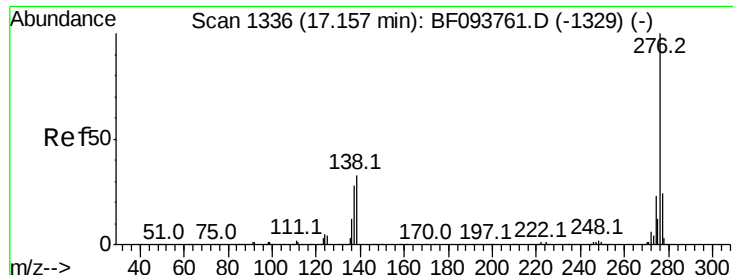
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#90
Dibenzo(a,h)anthracene
Concen: 3.46 ng m
RT: 16.76 min Scan# 1301
Delta R.T. -0.05 min
Lab File: BF093790.D
Acq: 21 Mar 2017 3:12

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.3	16.6	24.8
279	29.8	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 11.49 ng
 RT: 17.15 min Scan# 1335
 Delta R.T. -0.05 min
 Lab File: BF093790.D
 Acq: 21 Mar 2017 3:12

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4

Tot Ion:	276	Resp:	177511
Ion Ratio	Lower	Upper	
276	100		
277	25.0	18.6	28.0
138	31.2	25.4	38.0

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