

Data Path : Z:\HPCHEM1\BNA F\Data\BF031117\
 Data File : BF093585.D
 Acq On : 11 Mar 2017 23:27
 Operator : SJ/MA
 Sample : I2106-05RE 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413B

Manual Integrations
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Quant Time: Mar 13 17:48:41 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	155621	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	588734	20.00	ng	-0.01
38) Acenaphthene-d10	9.75	164	256885	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	417416	20.00	ng	0.00
75) Chrysene-d12	13.89	240	313037	20.00	ng	0.00
86) Perylene-d12	15.29	264	277061	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	425786	45.54	ng	0.00
7) Phenol-d6	6.38	99	616139	52.25	ng	0.00
23) Nitrobenzene-d5	7.29	82	336698	31.73	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	80723	48.23	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	525183	38.03	ng	-0.01
78) Terphenyl-d14	12.83	244	332858	27.65	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.40	94	31186	2.16	ng	90
31) Naphthalene	8.02	128	417845	14.16	ng	99
37) 2-Methylnaphthalene	8.72	142	125539	6.69	ng	96
45) 1,1'-Biphenyl	9.18	154	57866	3.09	ng	95
49) Dimethylphthalate	9.49	163	51013	3.00	ng	# 98
51) Acenaphthene	9.78	154	125301	8.97	ng	97
54) Dibenzofuran	9.97	168	260687	14.91	ng	91
57) Fluorene	10.31	166	196546	13.27	ng	98
70) Phenanthrene	11.27	178	682684	28.65	ng	98
71) Anthracene	11.32	178	301524	12.51	ng	97
72) Carbazole	11.49	167	58311	2.58	ng	# 84
74) Fluoranthene	12.46	202	868978	37.76	ng	98
77) Pvrene	12.69	202	778580	34.20	ng	99
80) Benzo(a)anthracene	13.88	228	310530m	16.80	ng	
82) Chrysene	13.91	228	323155m	18.89	ng	
85) Indeno(1,2,3-cd)pyrene	16.64	276	88738	6.20	ng	95
87) Benzo(b)fluoranthene	14.91	252	353813m	20.97	ng	
88) Benzo(k)fluoranthene	14.92	252	79597m	4.89	ng	
89) Benzo(a)pvrene	15.24	252	192835	12.50	ng	# 89
91) Benzo(a,h,i)perylene	17.05	276	80944	6.18	ng	# 85

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

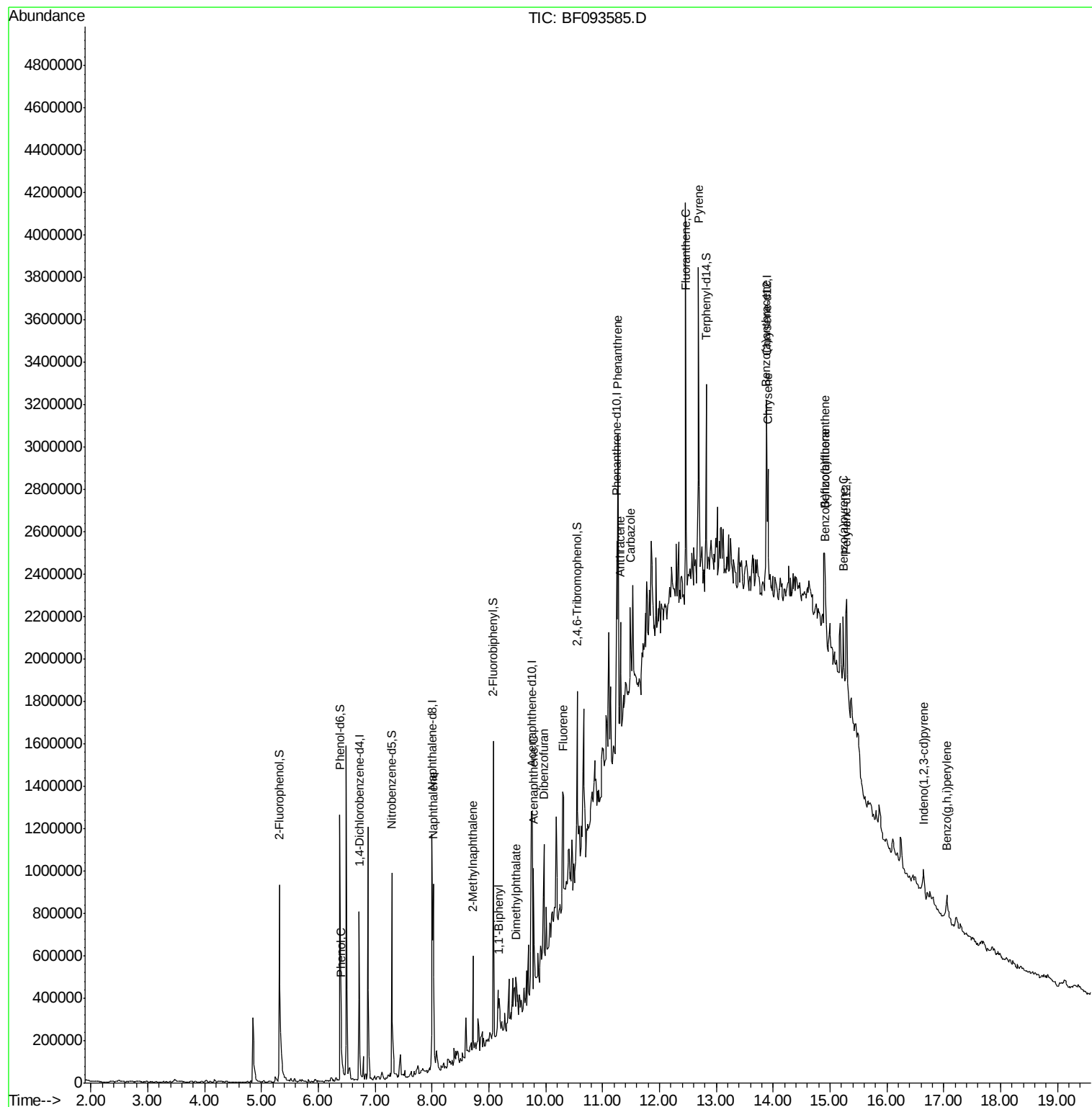
Data Path : Z:\HPCHEM1\BNA F\Data\BF031117\
Data File : BF093585.D
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Misc :
ALS Vial : 22 Sample Multiplier: 1

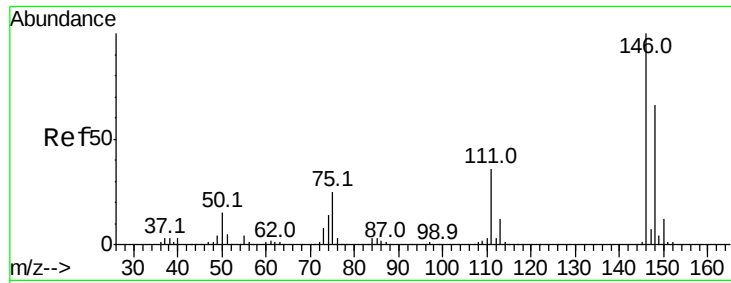
Instrument :
BNA_F
ClientSampleId :
HY-SB413B

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Quant Time: Mar 13 17:48:41 2017
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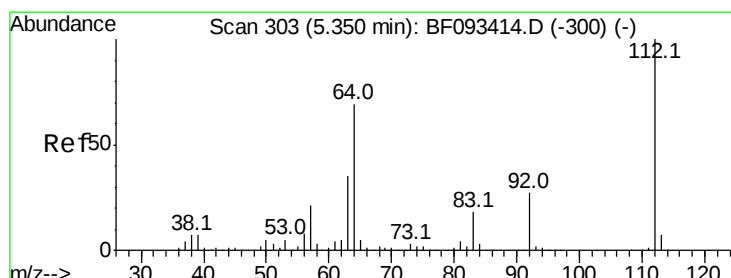
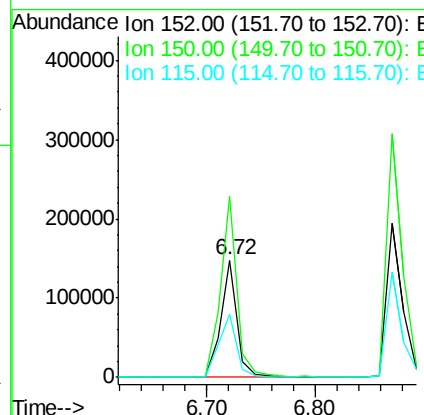
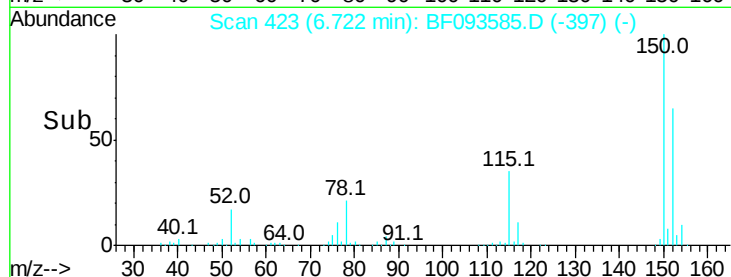
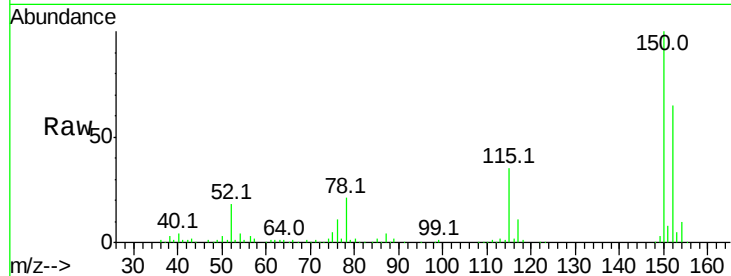
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.72 min Scan# 423
Delta R.T. -0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.9	187.3
115	53.8	46.0	69.0

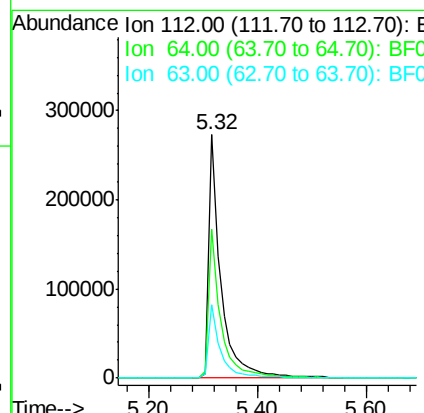
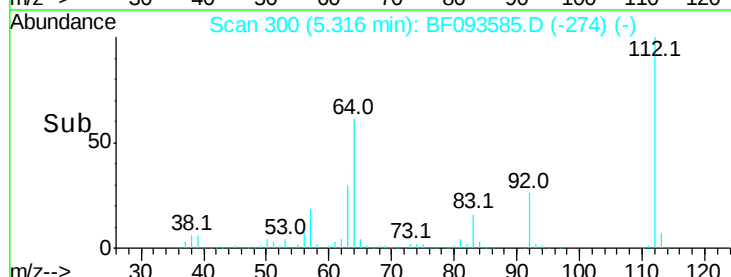
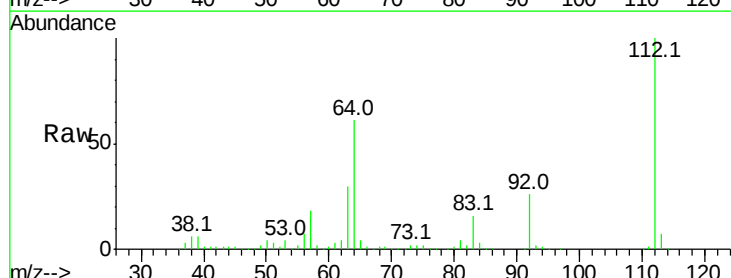
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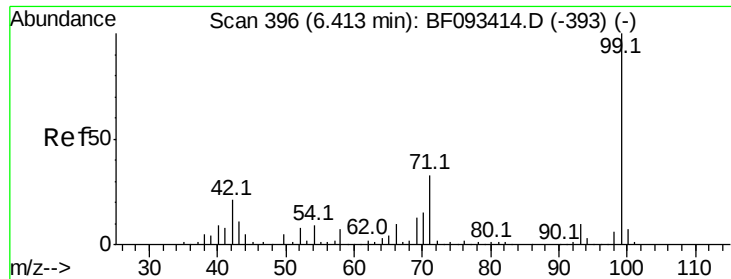
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#5
2-Fluorophenol
Concen: 45.54 ng
RT: 5.32 min Scan# 300
Delta R.T. 0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.1	46.1	69.1
63	30.2	23.8	35.6





#7

Phenol-d6

Concen: 52.25 ng

RT: 6.38 min Scan# 393

Delta R.T. 0.00 min

Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

Instrument :

BNA_F

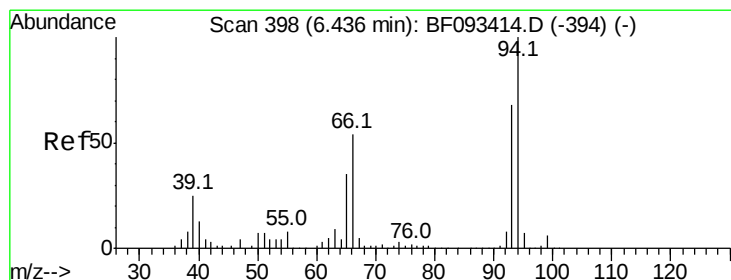
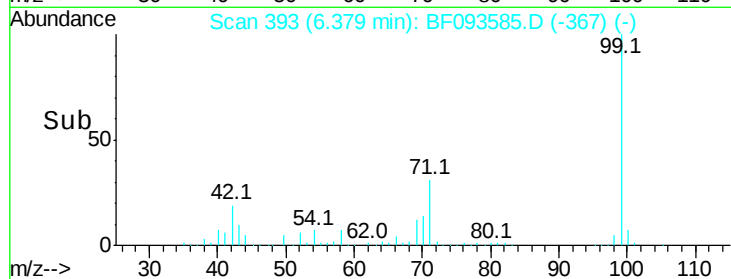
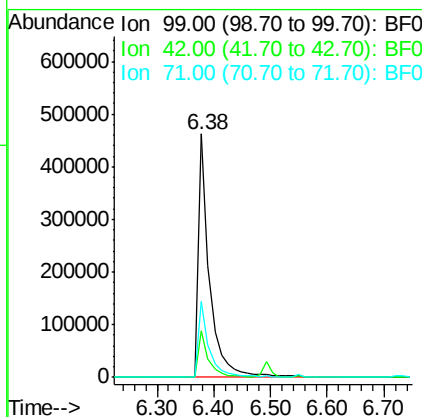
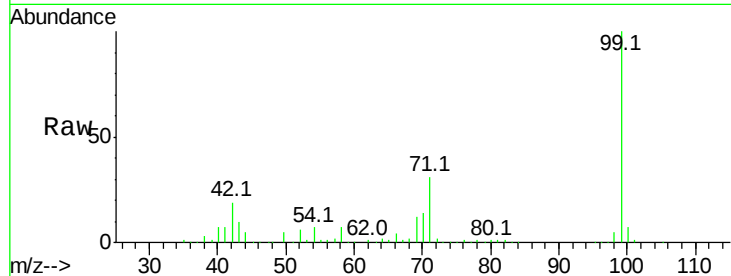
ClientSampleId :

HY-SB413B

Tot Ion:	99	Resp:	616139
Ion Ratio	Lower	Upper	
99	100		
42	19.1	15.6	23.4
71	31.1	27.5	41.3

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#10

Phenol

Concen: 2.16 ng

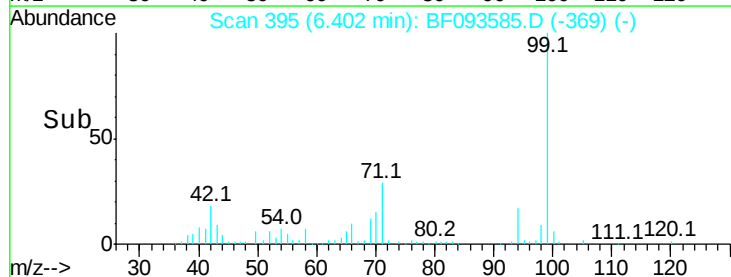
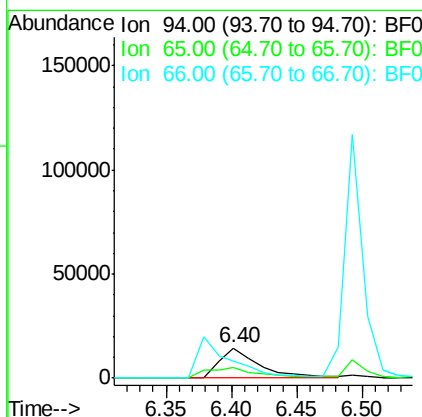
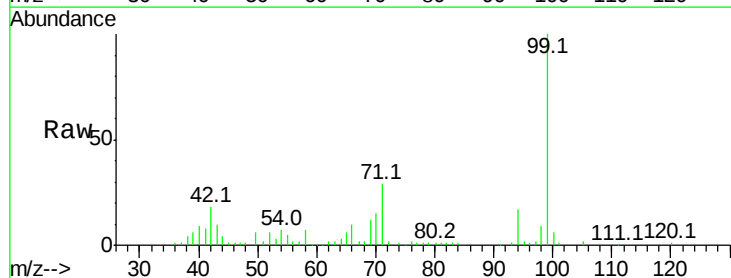
RT: 6.40 min Scan# 395

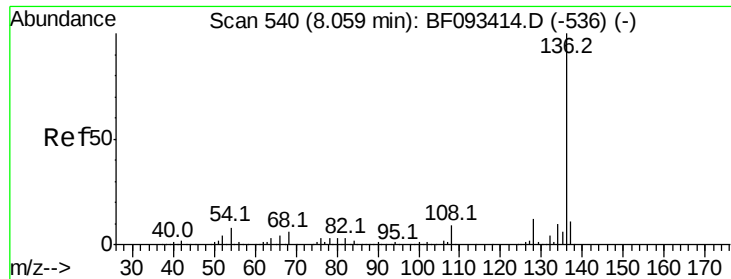
Delta R.T. -0.00 min

Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

Tgt Ion:	94	Resp:	31186
Ion Ratio	Lower	Upper	
94	100		
65	35.3	21.4	61.4
66	55.6	44.0	84.0





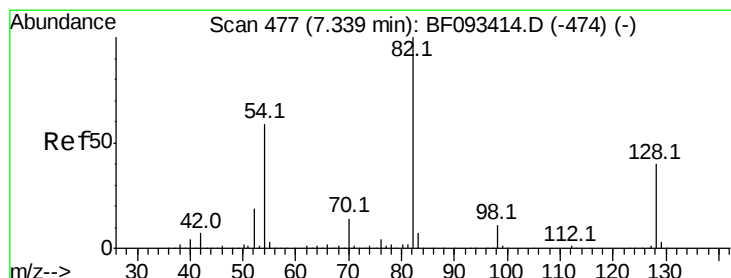
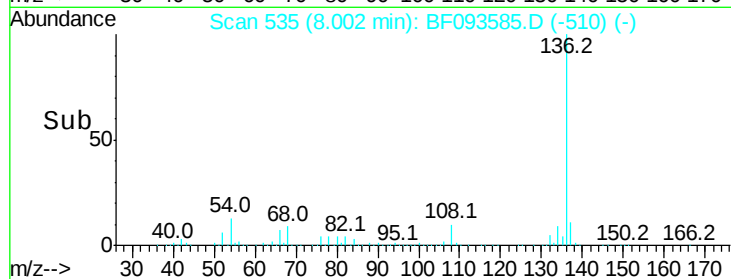
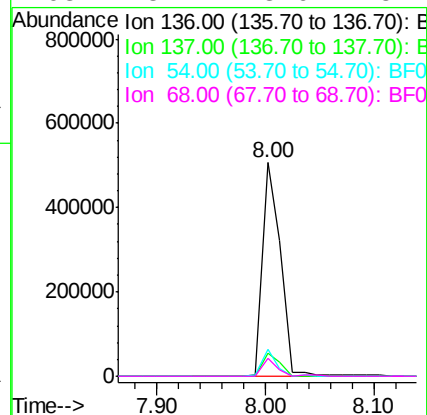
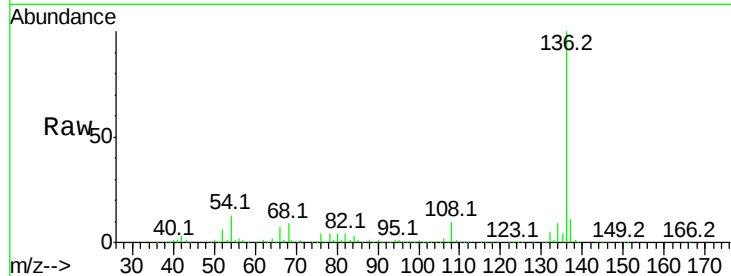
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.00 min Scan# 535
Delta R.T. -0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.1	8.4	12.6
54	12.8	4.5	6.7#
68	8.7	3.6	5.4#

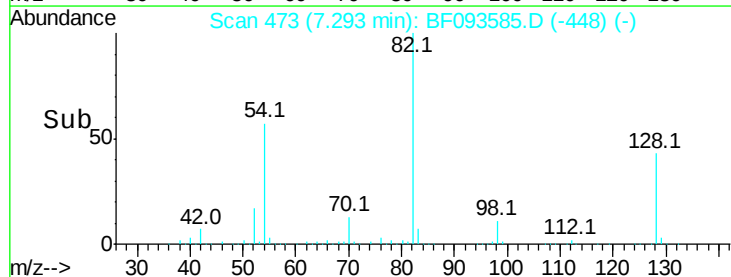
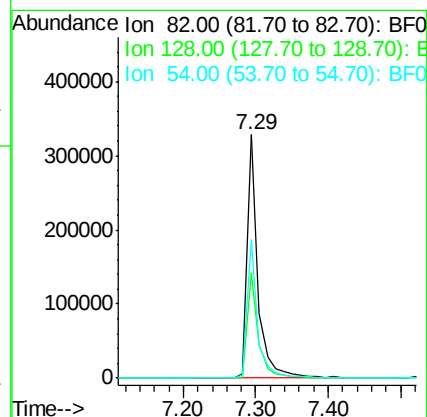
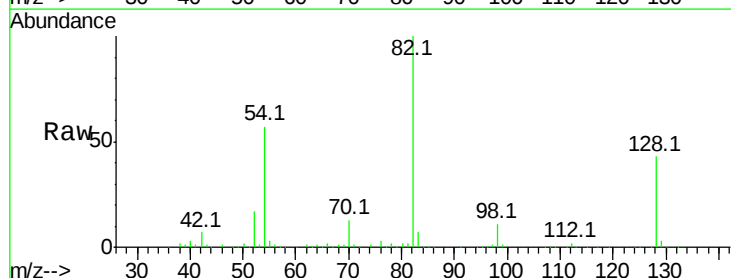
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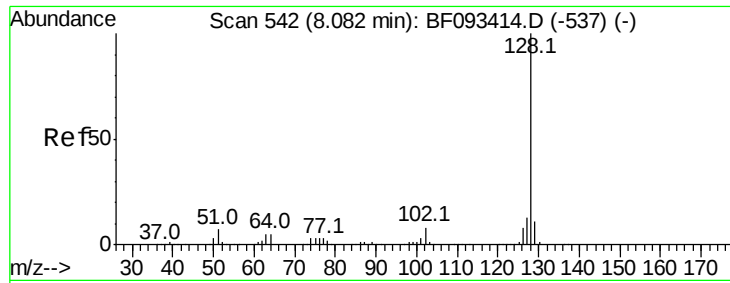
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#23
Nitrobenzene-d5
Concen: 31.73 ng
RT: 7.29 min Scan# 473
Delta R.T. -0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	43.3	34.6	52.0
54	57.1	39.5	59.3





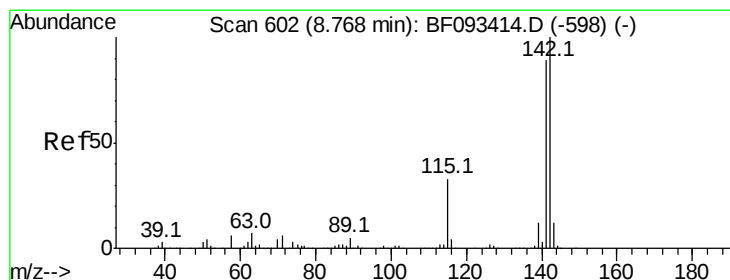
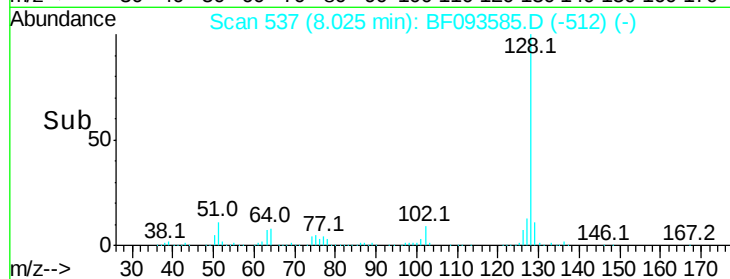
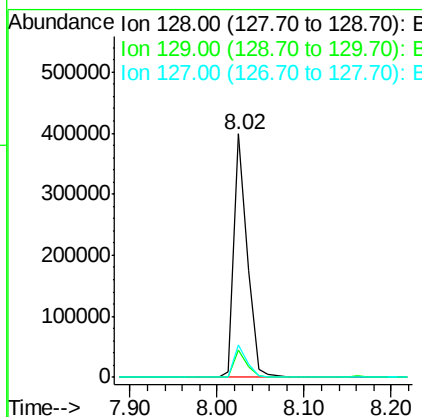
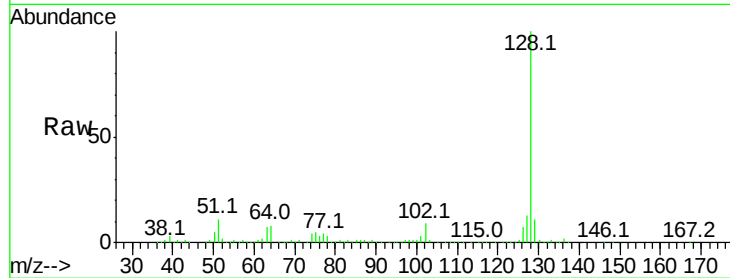
#31
Naphthalene
Concen: 14.16 ng
RT: 8.02 min Scan# 537
Delta R.T. -0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.1	9.5	14.3	
127	13.3	10.8	16.2	

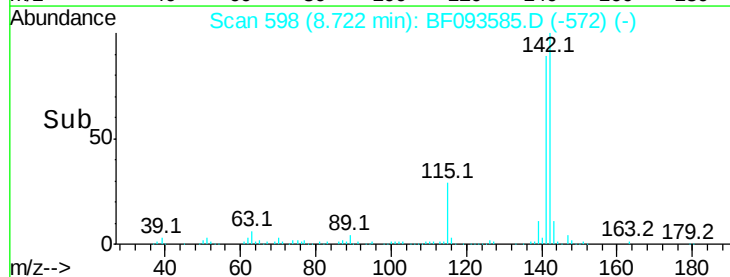
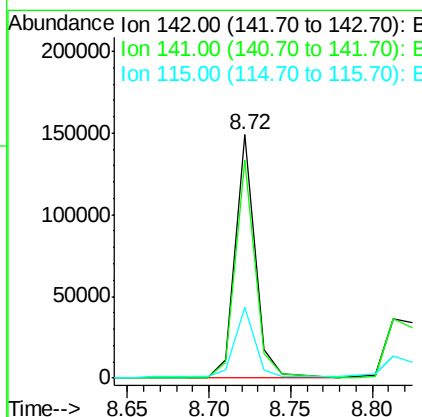
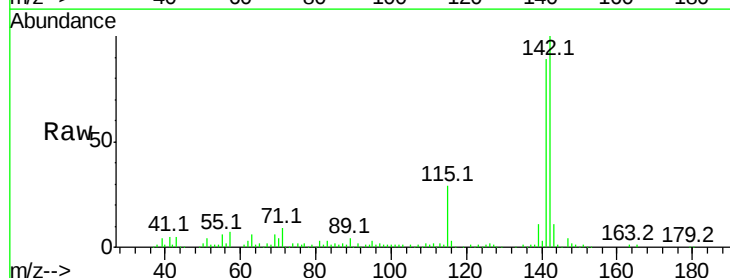
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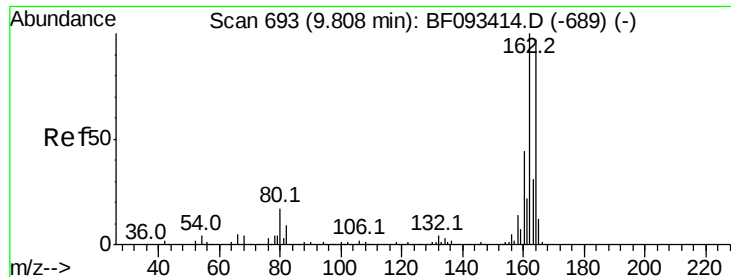
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#37
2-Methylnaphthalene
Concen: 6.69 ng
RT: 8.72 min Scan# 598
Delta R.T. 0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	89.5	71.0	106.6	
115	29.3	28.3	42.5	





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

Instrument :

BNA_F

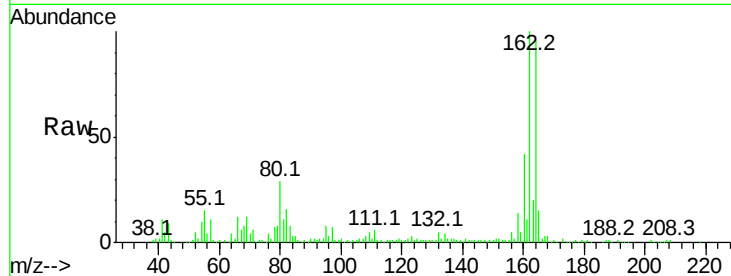
ClientSampleId :

HY-SB413B

Tot Ion	Ratio	Resp	Lower	Upper
164	100	256885		
162	104.1	80.2	120.2	
160	44.2	36.9	55.3	

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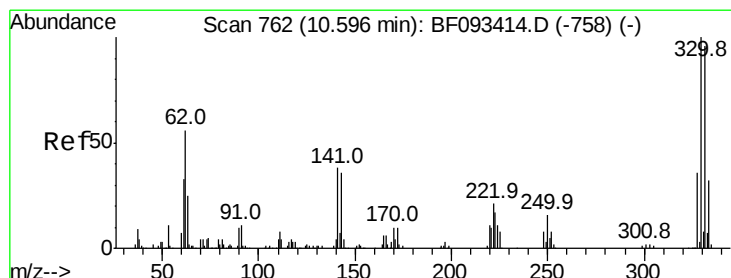
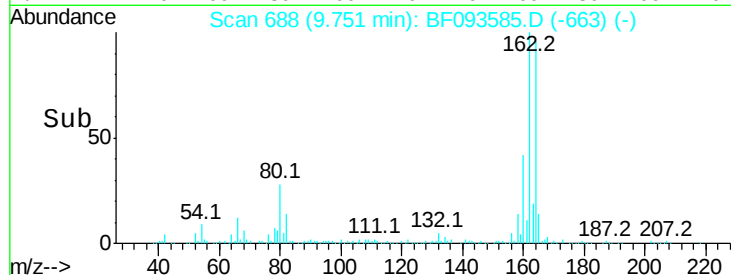
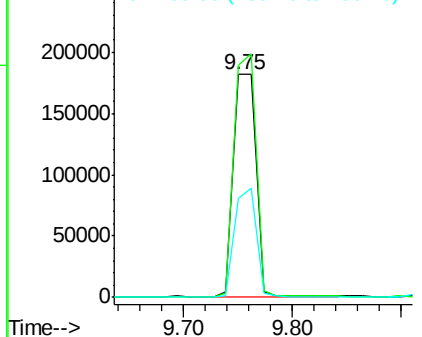
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 48.23 ng

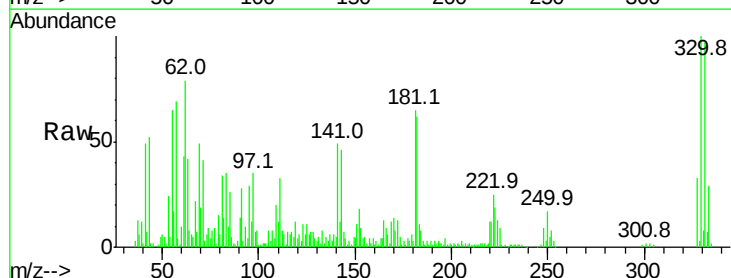
RT: 10.55 min Scan# 758

Delta R.T. -0.00 min

Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

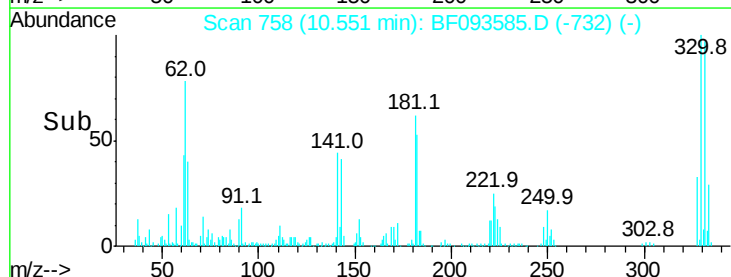
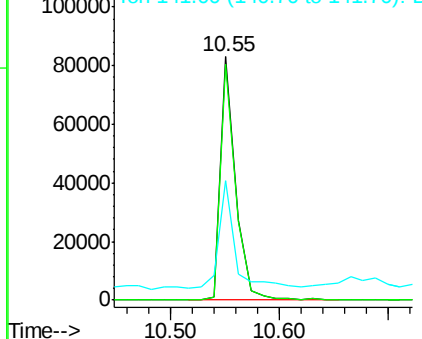
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	80723		
332	97.3	77.4	116.2	
141	50.9	34.1	51.1	

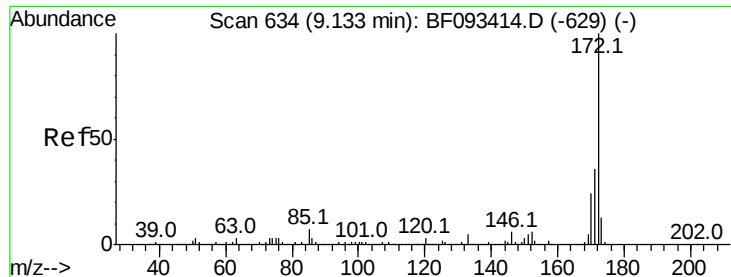


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





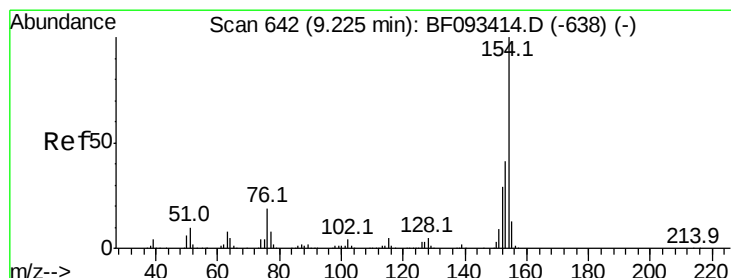
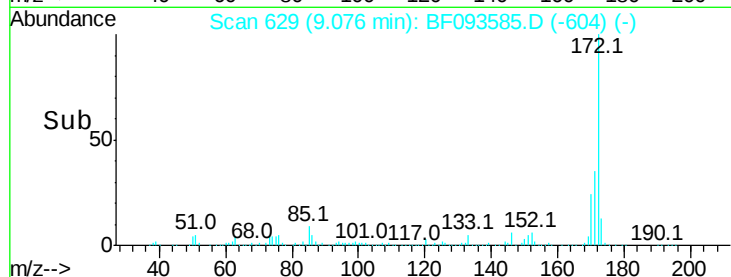
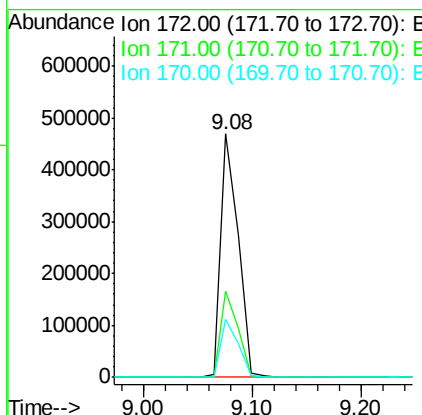
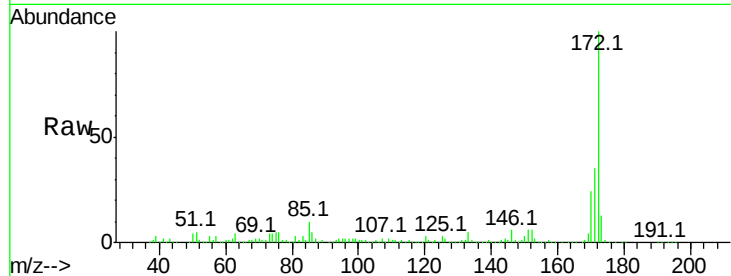
#44
2-Fluorobiphenyl
Concen: 38.03 ng
RT: 9.08 min Scan# 629
Delta R.T. -0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.4	29.4	44.0	
170	23.8	20.2	30.4	

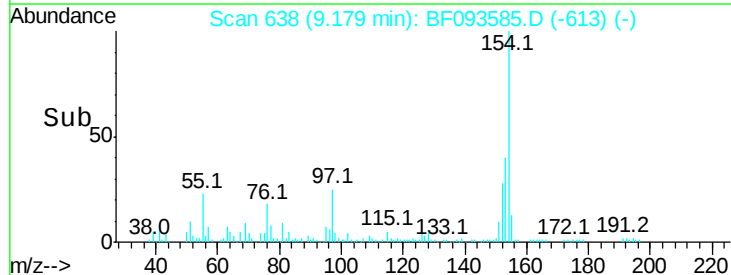
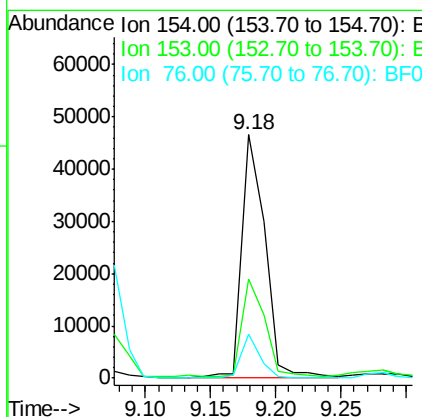
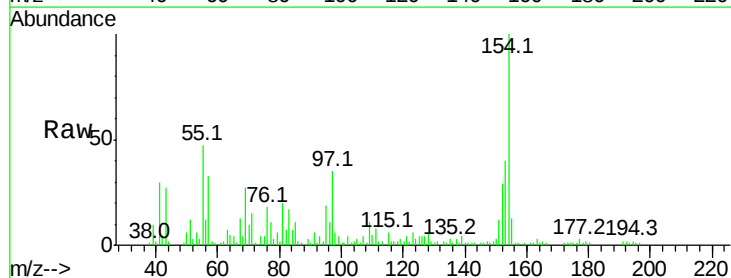
Manual Integrations
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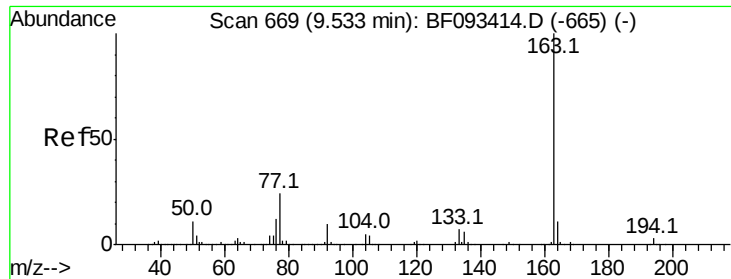
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#45
1,1'-Biphenyl
Concen: 3.09 ng
RT: 9.18 min Scan# 638
Delta R.T. -0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.5	20.9	60.9	
76	18.1	0.0	30.5	





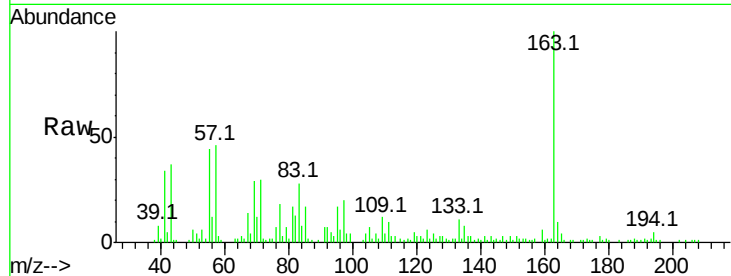
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Dimethylphthalate
Concen: 3.00 ng
RT: 9.49 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

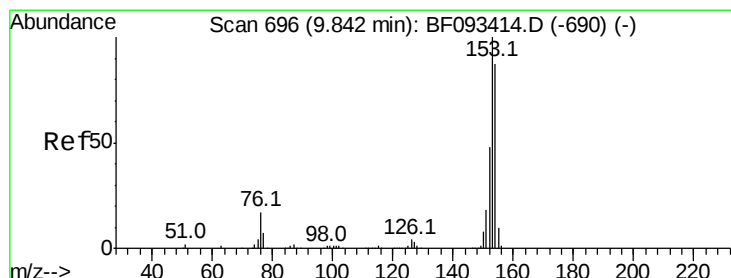
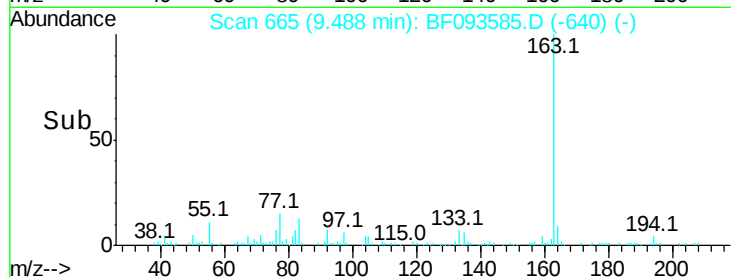
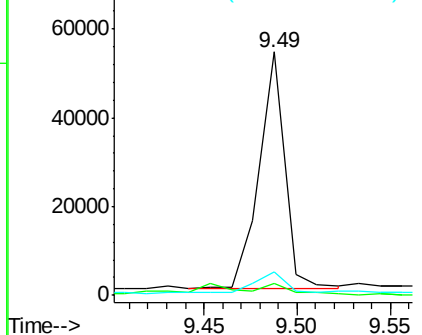
Tot Ion	Ratio	Resp	Lower	Upper
163	100	51013		
194	4.9	3.0	4.4#	
164	9.6	8.0	12.0	

Manual Integrations
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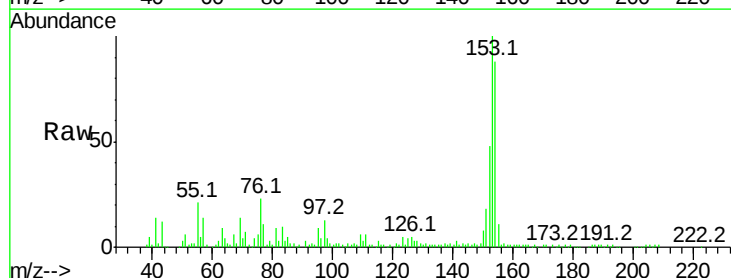


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

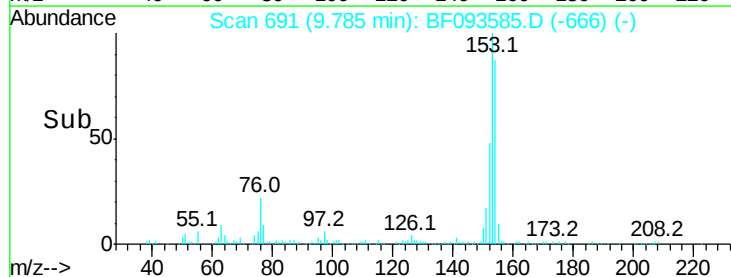
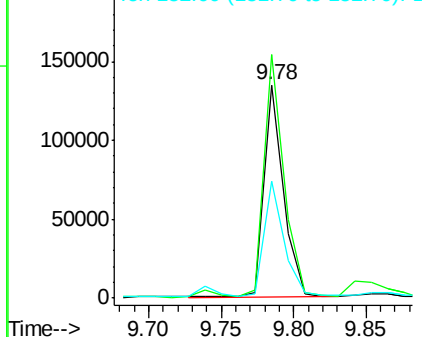


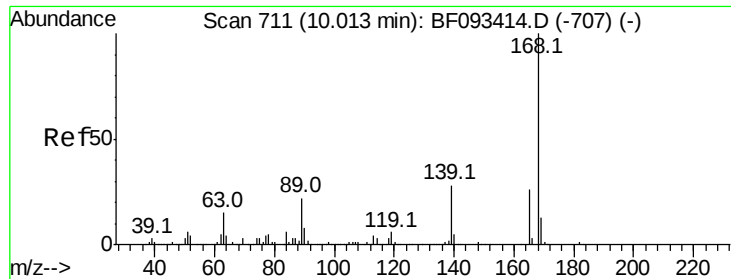
#51
Acenaphthene
Concen: 8.97 ng
RT: 9.78 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	125301		
153	114.2	88.6	133.0	
152	54.6	41.6	62.4	



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





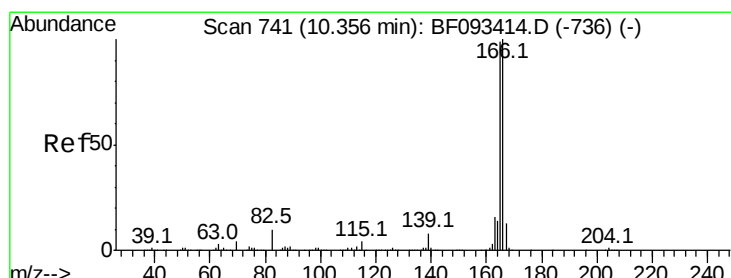
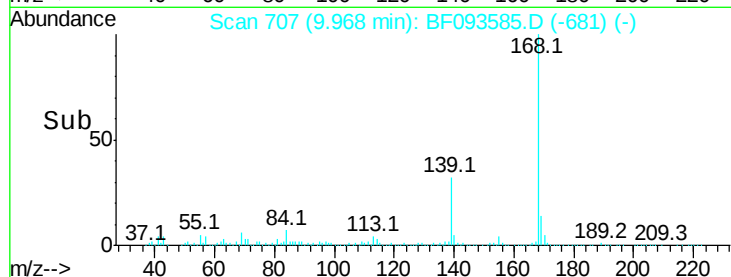
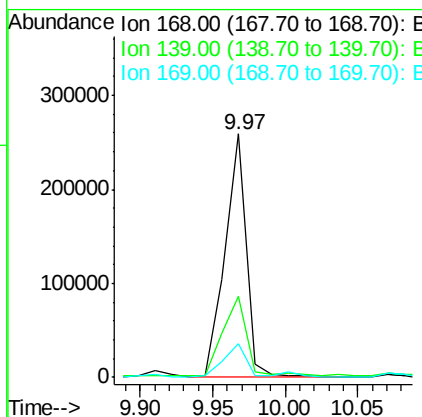
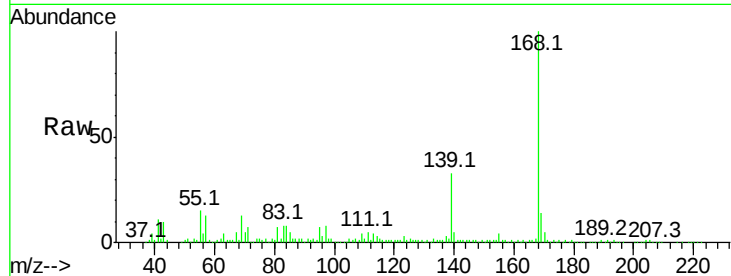
#54
Dibenzofuran
Concen: 14.91 ng
RT: 9.97 min Scan# 707
Delta R.T. -0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Resp	Lower	Upper
168	100	260687		
139	33.0		32.6	49.0
169	13.9		11.3	16.9

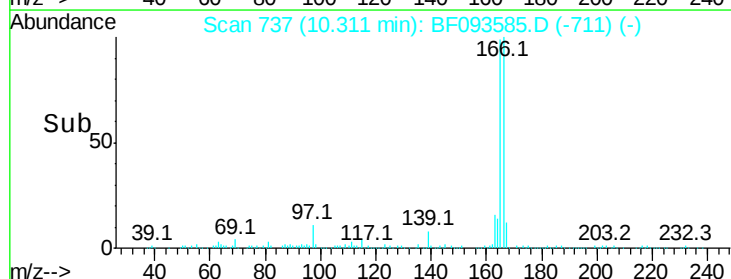
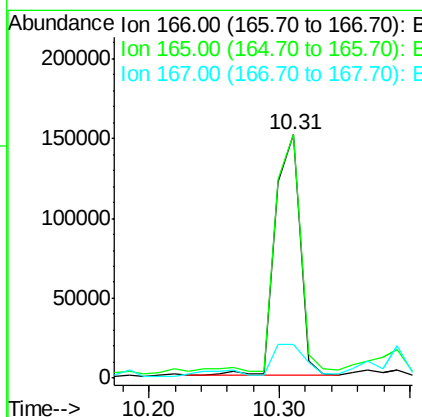
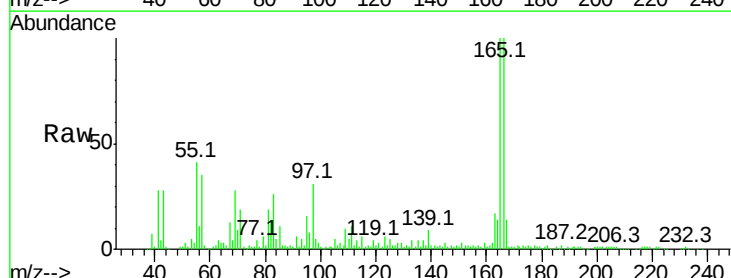
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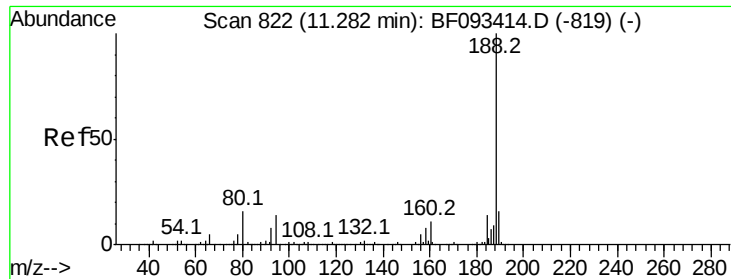
mohammad
3/15/2017 5:34:29 PM



#57
Fluorene
Concen: 13.27 ng
RT: 10.31 min Scan# 737
Delta R.T. 0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	196546		
165	99.9		77.8	116.8
167	14.1		10.8	16.2





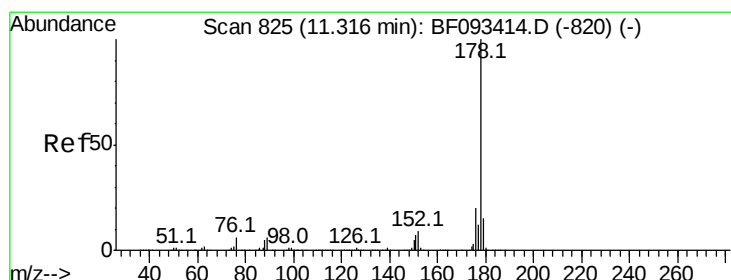
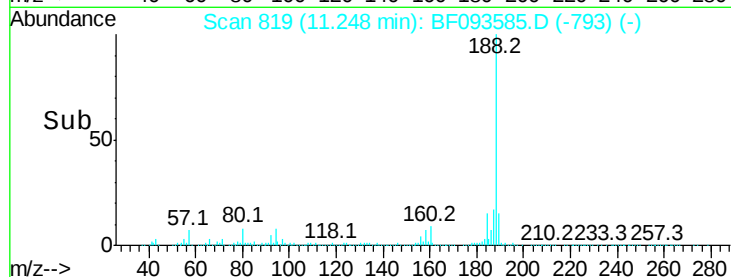
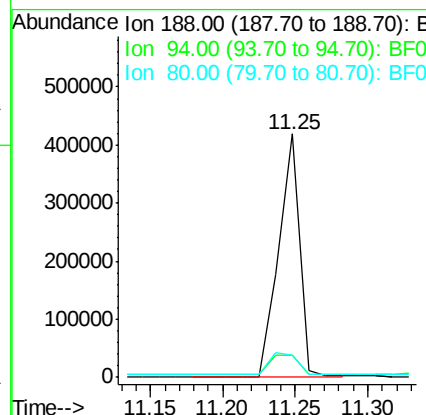
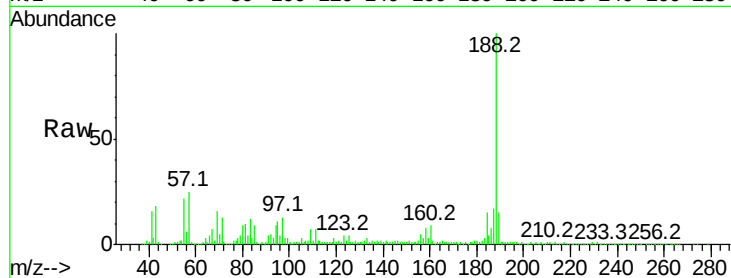
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 819
Delta R.T. 0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	9.3	10.0	15.0#
80	9.2	11.2	16.8#

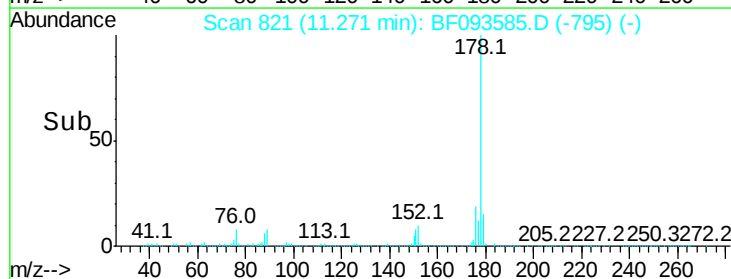
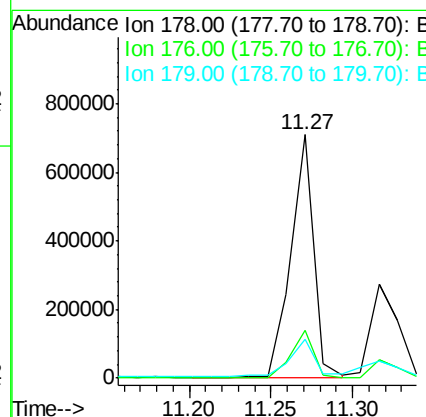
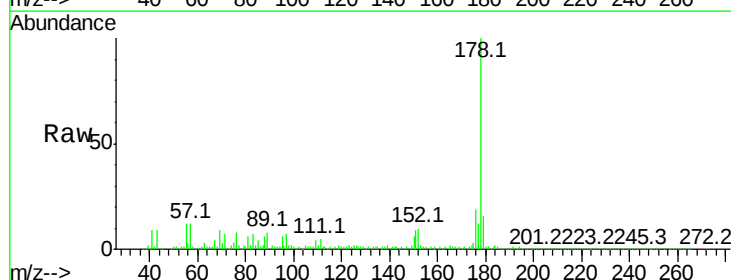
Manual Integrations
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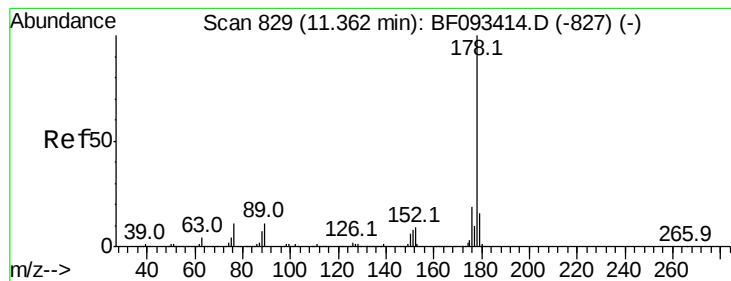
mohammad
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#70
Phenanthrene
Concen: 28.65 ng
RT: 11.27 min Scan# 821
Delta R.T. 0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.4	16.6	25.0
179	15.9	12.8	19.2





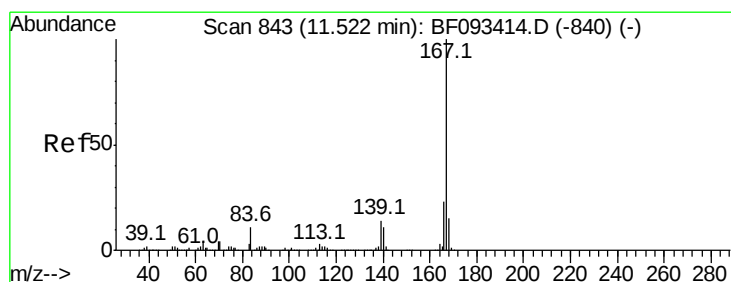
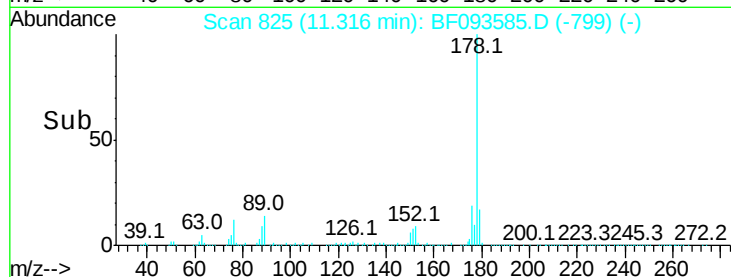
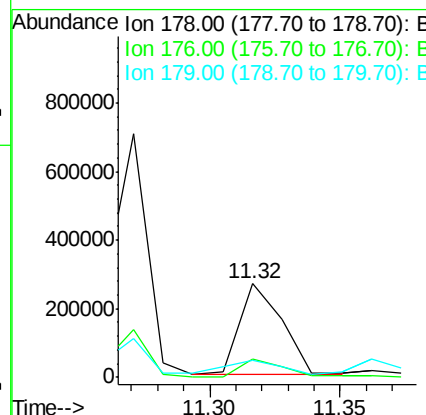
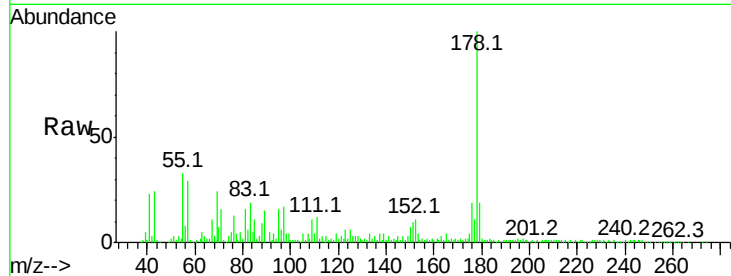
#71
 Anthracene
 Concen: 12.51 ng
 RT: 11.32 min Scan# 825
 Delta R.T. 0.00 min
 Lab File: BF093585.D
 Acq: 11 Mar 2017 23:27

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413B

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.9	23.9
179	18.8	13.2	19.8

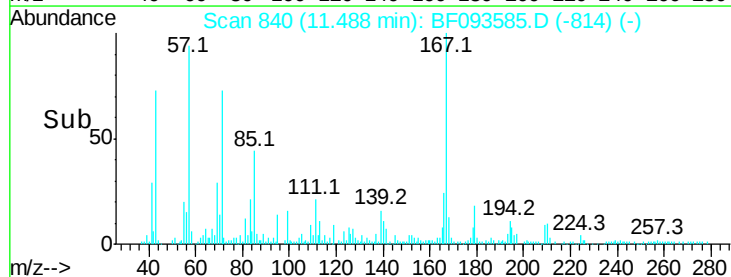
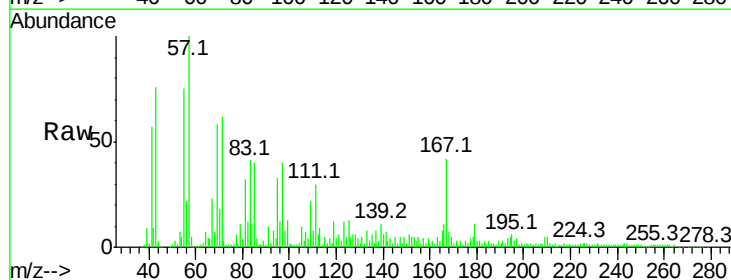
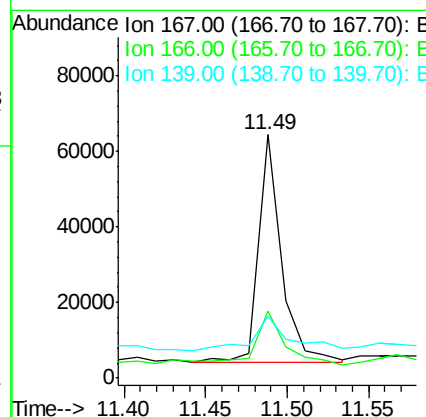
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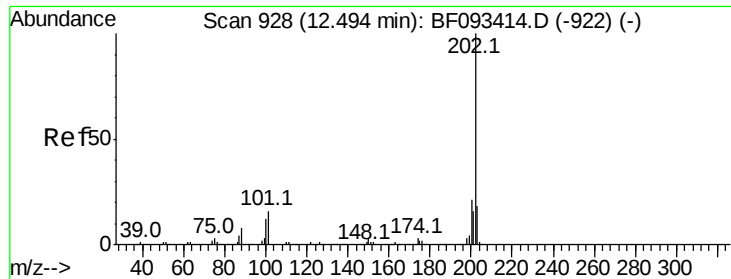
mohammad
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#72
 Carbazole
 Concen: 2.58 ng
 RT: 11.49 min Scan# 840
 Delta R.T. 0.00 min
 Lab File: BF093585.D
 Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Lower	Upper
167	100		
166	27.5	18.2	27.2#
139	25.2	11.4	17.2#





#74

Fluoranthene

Concen: 37.76 ng

RT: 12.46 min Scan# 925

Delta R.T. 0.00 min

Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

Instrument :

BNA_F

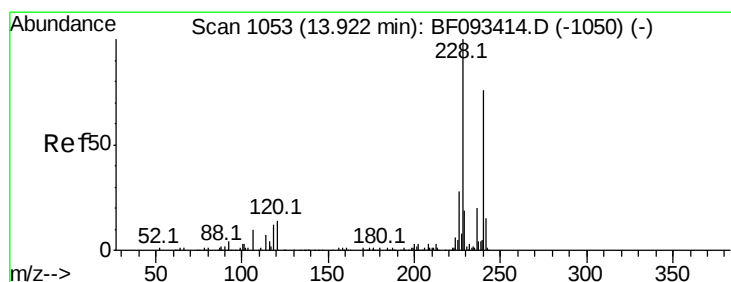
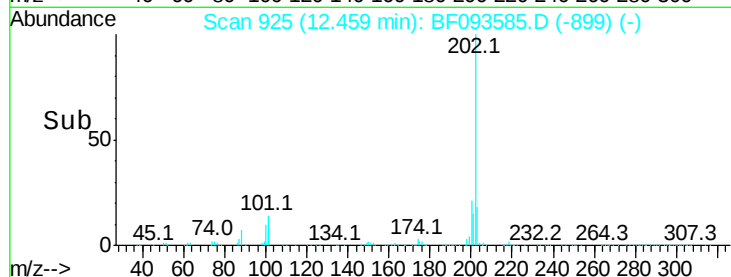
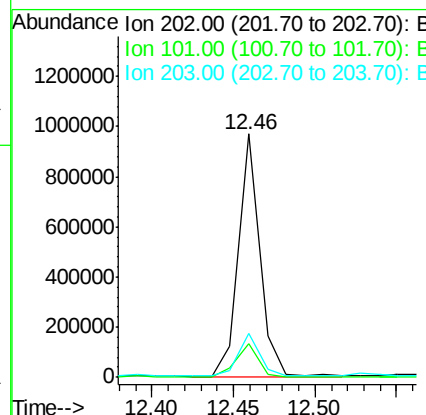
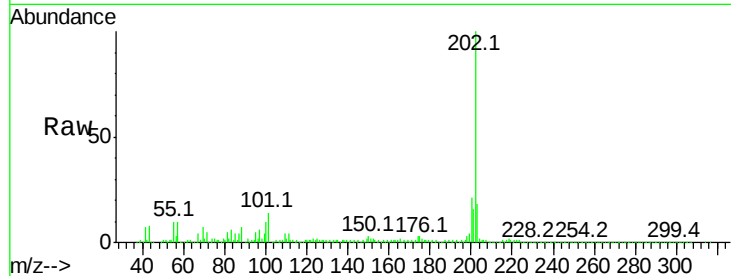
ClientSampleId :

HY-SB413B

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	13.8	0.0	34.6	
203	18.1	0.0	38.7	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

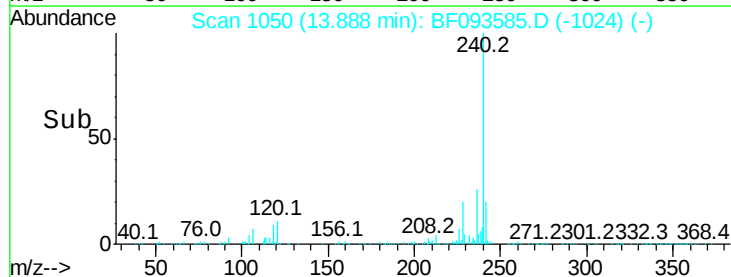
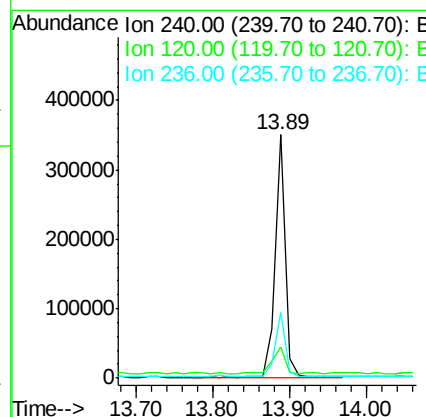
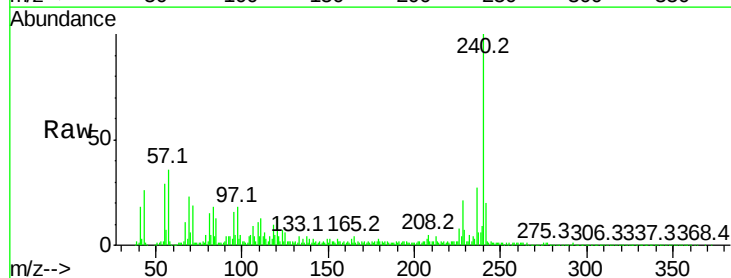
RT: 13.89 min Scan# 1050

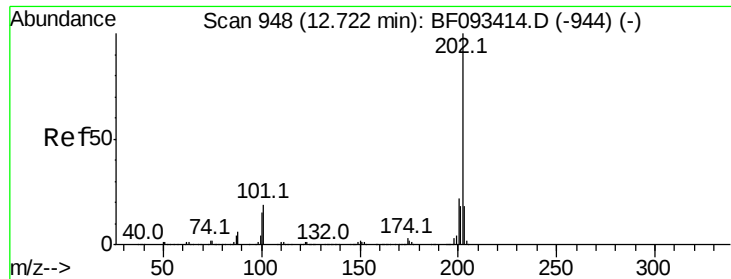
Delta R.T. 0.00 min

Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	12.7	12.9	19.3#	
236	26.8	20.9	31.3	





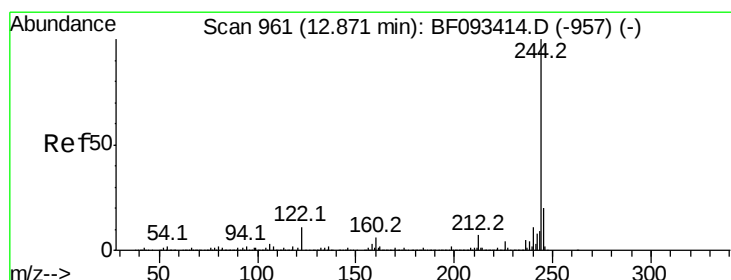
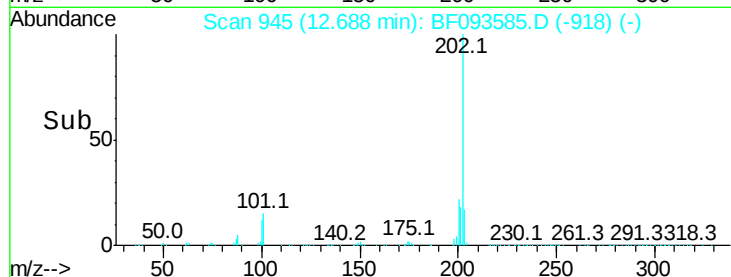
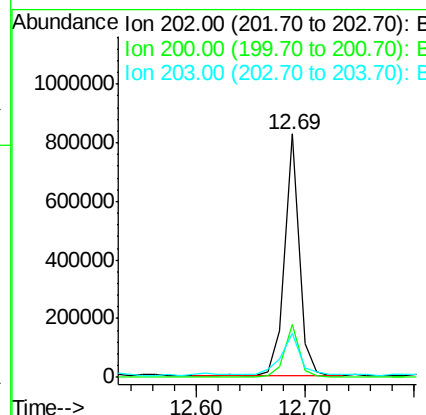
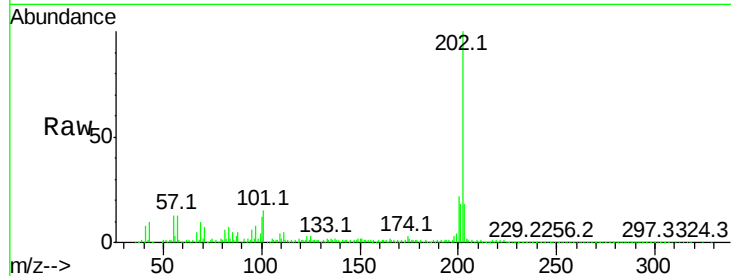
#77
Pvrene
Concen: 34.20 ng
RT: 12.69 min Scan# 945
Delta R.T. 0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampled :
HY-SB413B

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.8	17.7	26.5
203	17.9	14.7	22.1

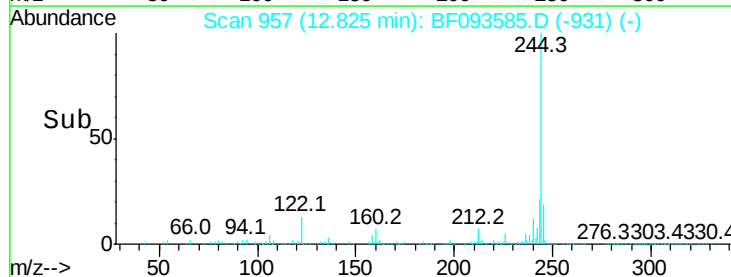
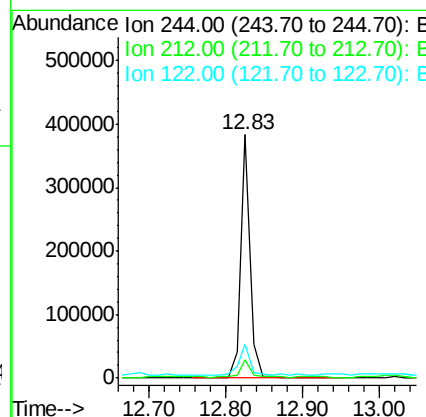
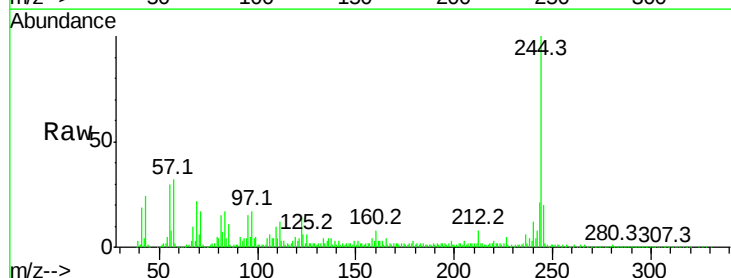
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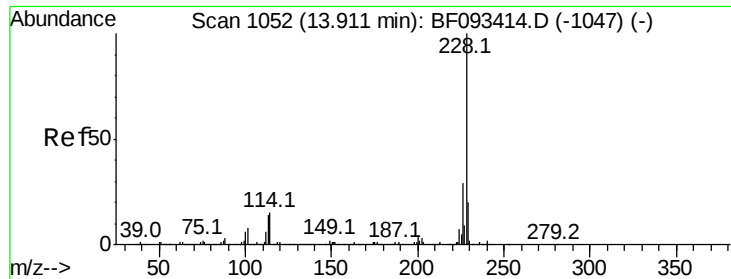
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#78
Terphenyl-d14
Concen: 27.65 ng
RT: 12.83 min Scan# 957
Delta R.T. 0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.8	6.2	9.2
122	13.9	11.4	17.2





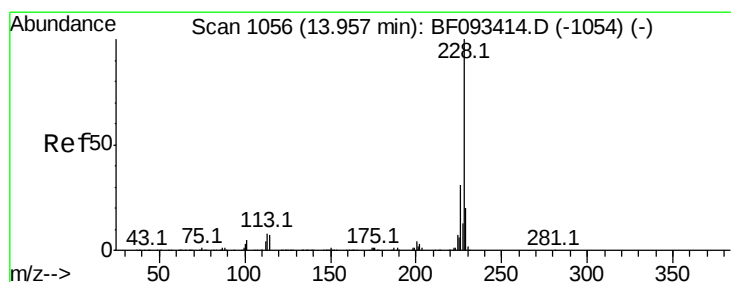
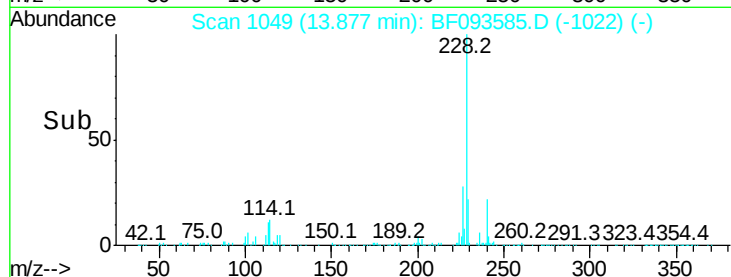
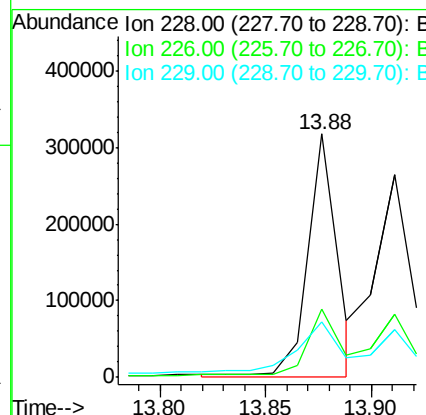
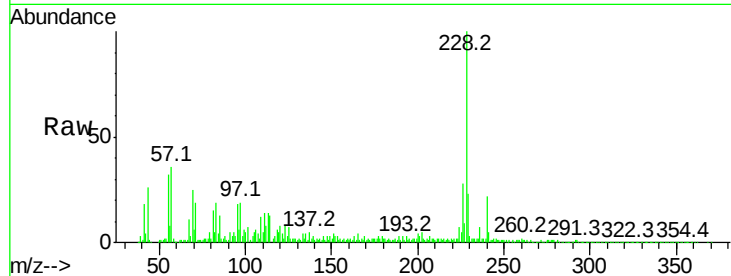
#80
Benzo(a)anthracene
Concen: 16.80 ng m
RT: 13.88 min Scan# 1049
Delta R.T. 0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Resp	Lower	Upper
228	100	310530		
226	28.2		22.4	33.6
229	23.0		16.2	24.4

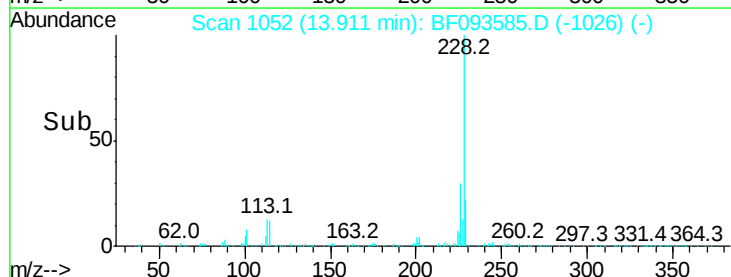
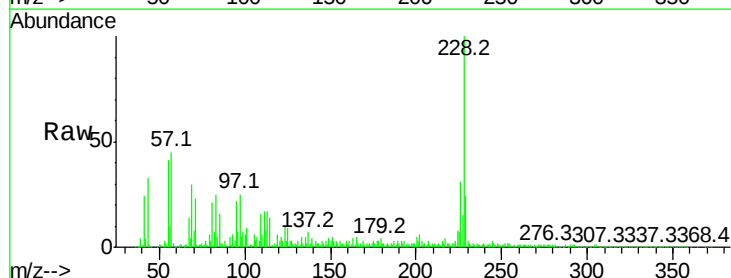
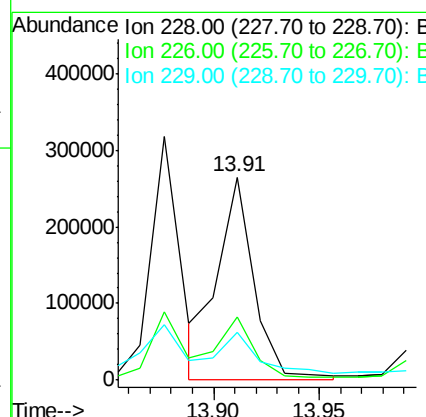
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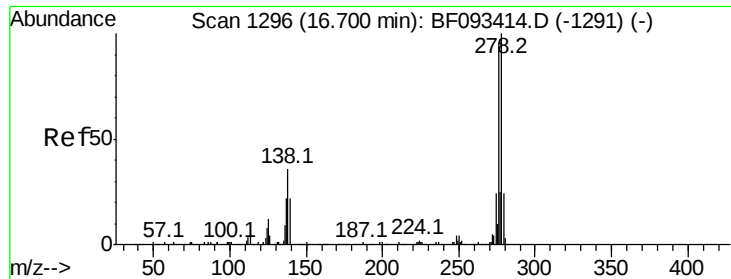
mohammad
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#82
Chrysene
Concen: 18.89 ng m
RT: 13.91 min Scan# 1052
Delta R.T. -0.00 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	323155		
226	31.0		25.4	38.0
229	23.6		16.2	24.2





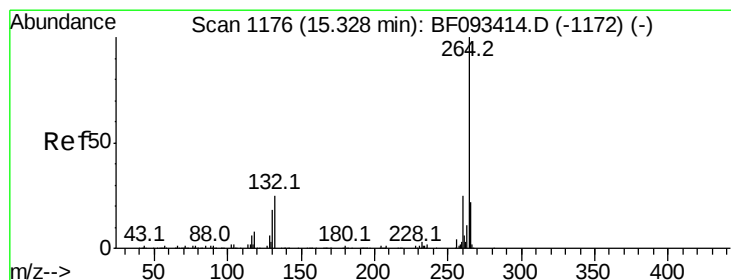
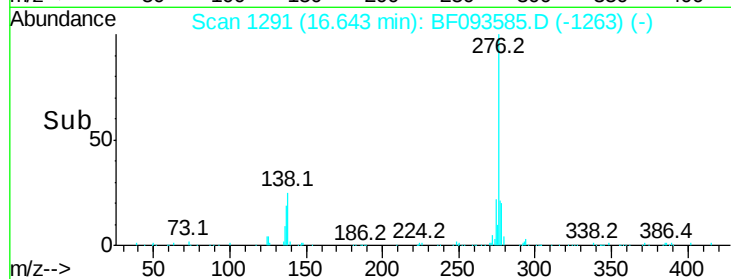
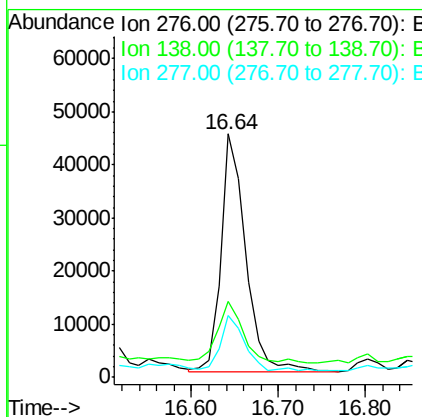
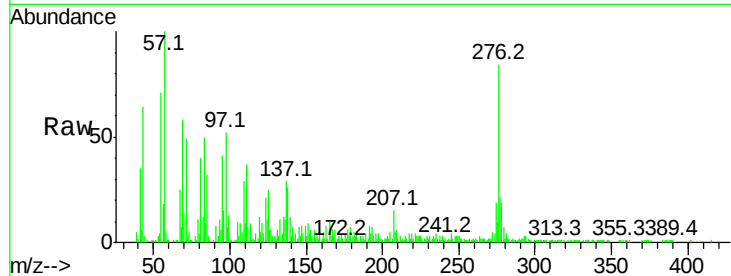
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.20 ng
 RT: 16.64 min Scan# 1291
 Delta R.T. 0.02 min
 Lab File: BF093585.D
 Acq: 11 Mar 2017 23:27

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413B

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.7	21.8	32.6
277	20.8	20.2	30.4

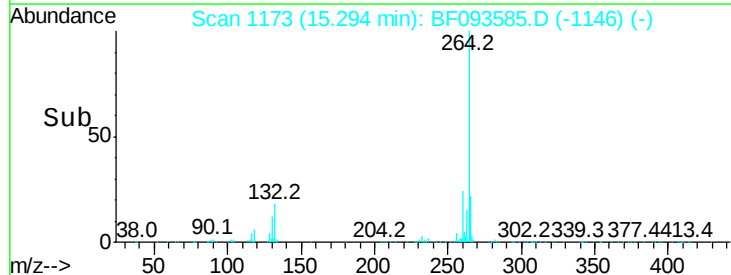
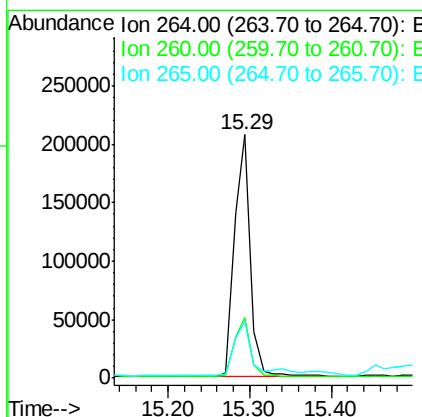
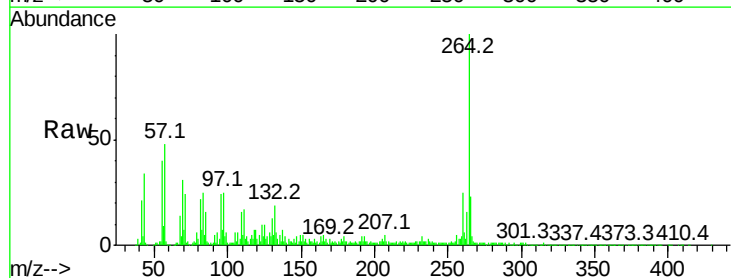
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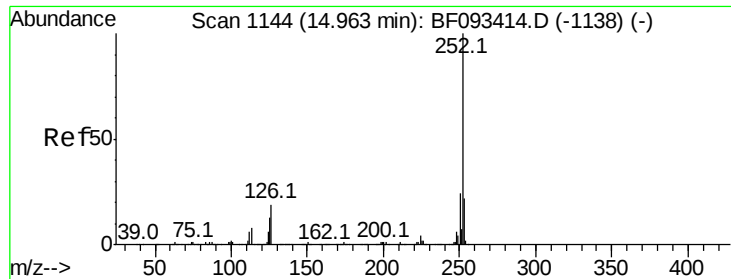
mohammad
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.29 min Scan# 1173
 Delta R.T. 0.01 min
 Lab File: BF093585.D
 Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.2	28.8
265	23.2	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 20.97 ng m

RT: 14.91 min Scan# 1139

Delta R.T. 0.01 min

Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

Instrument :

BNA_F

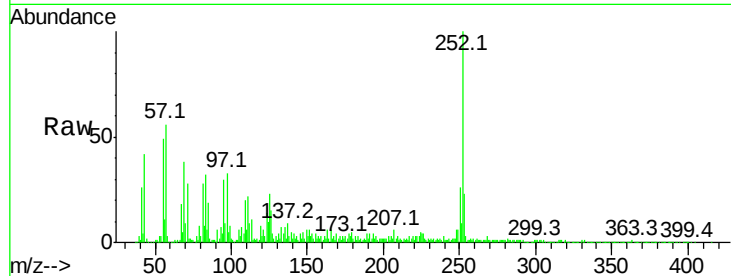
ClientSampleId :

HY-SB413B

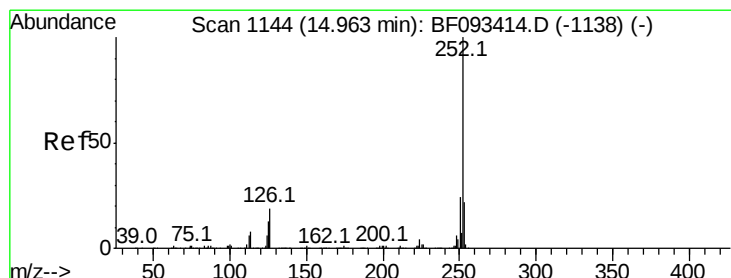
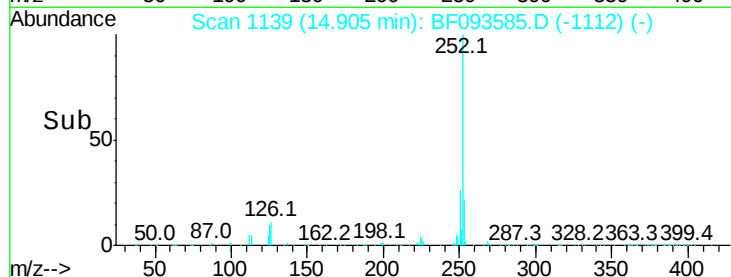
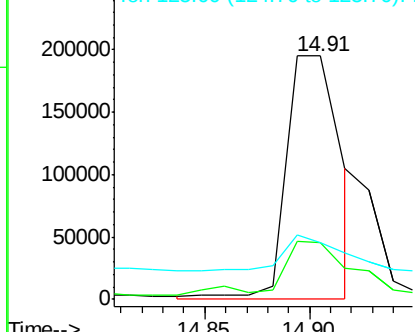
Tot Ion:	252	Resp:	353813
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.2	27.4
125	23.5	9.8	14.6#

Manual Integrations
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3/15/2017 5:34:29 PM



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



#88

Benzo(k)fluoranthene

Concen: 4.89 ng m

RT: 14.92 min Scan# 1140

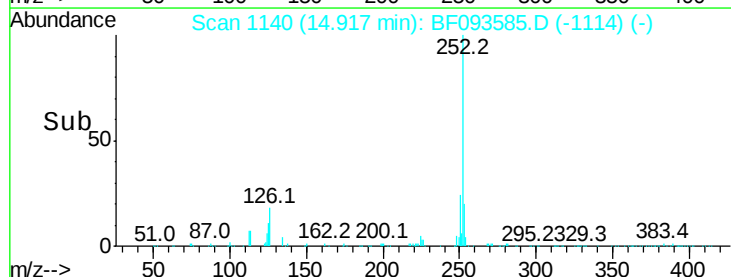
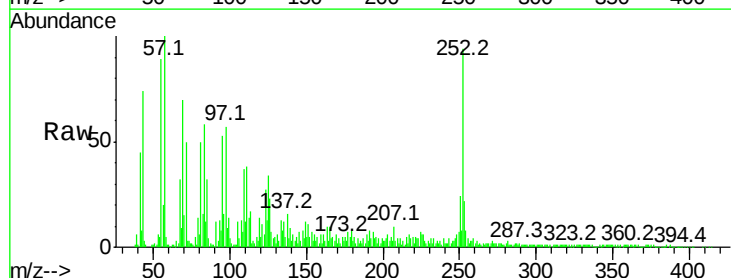
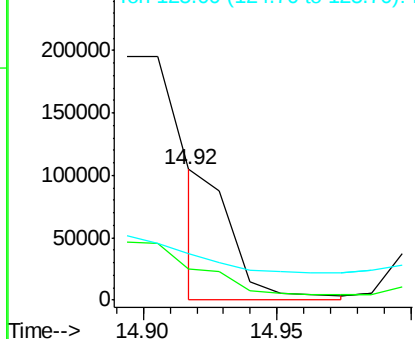
Delta R.T. 0.00 min

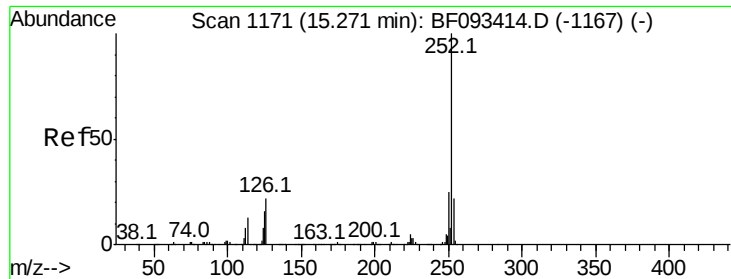
Lab File: BF093585.D

Acq: 11 Mar 2017 23:27

Tgt Ion:	252	Resp:	79597
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.5	27.7
125	35.6	8.9	13.3#

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





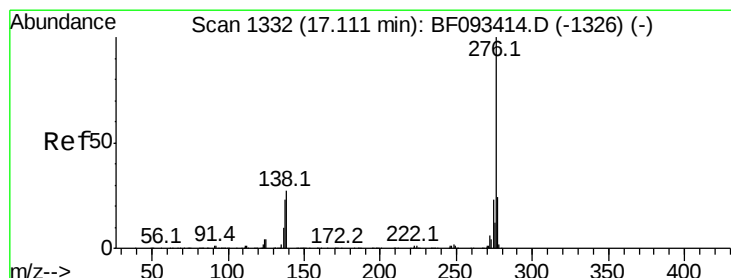
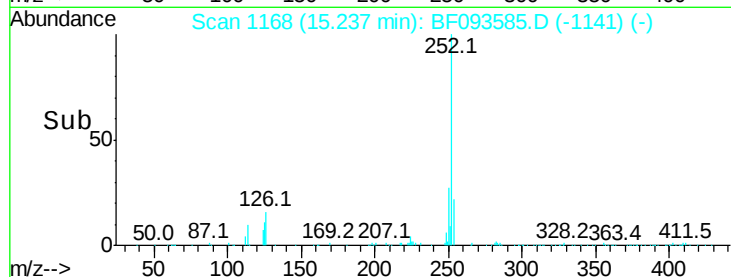
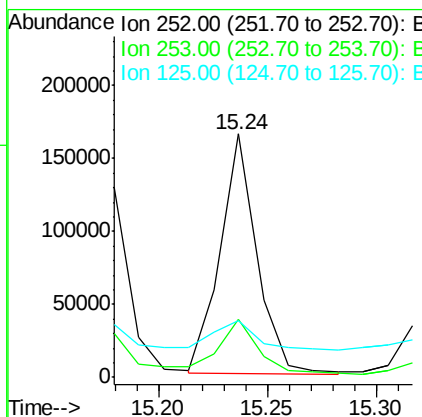
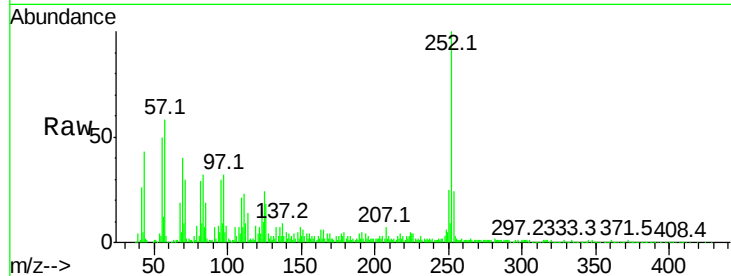
#89
Benzo(a)pyrene
Concen: 12.50 ng
RT: 15.24 min Scan# 1168
Delta R.T. 0.01 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.8	18.2	27.2
125	23.5	10.0	15.0

Manual Integrations
APPROVED

mohammad
3/15/2017 5:34:29 PM



#91
Benzo(g,h,i)perylene
Concen: 6.18 ng
RT: 17.05 min Scan# 1327
Delta R.T. 0.03 min
Lab File: BF093585.D
Acq: 11 Mar 2017 23:27

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	25.6	19.2	28.8
138	33.2	16.0	24.0

