

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
 Data File : BF096228.D
 Acq On : 27 Jun 2017 20:49
 Operator : SJ/MA
 Sample : I3920-04 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OB-4

Manual Integrations
 APPROVED

mohammad
 6/30/2017 12:46:42 PM

Quant Time: Jun 28 16:21:23 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	178698	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	735607	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	275122	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	370303	20.00	ng	0.00
75) Chrysene-d12	13.92	240	316975	20.00	ng	0.00
86) Perylene-d12	15.34	264	283142	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	321083	25.89	ng	0.00
7) Phenol-d6	6.40	99	384852	25.62	ng	0.00
23) Nitrobenzene-d5	7.33	82	198171	18.65	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	45984	21.24	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	318953	21.23	ng	-0.02
78) Terphenyl-d14	12.87	244	162522	12.79	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.08	128	210174	5.928	ng	100
37) 2-Methylnaphthalene	8.77	142	68087	2.956	ng	97
49) Dimethylphthalate	9.53	163	58033	2.947	ng	97
51) Acenaphthene	9.84	154	78419	4.586	ng	96
54) Dibenzofuran	10.02	168	113831	5.098	ng	99
70) Phenanthrene	11.32	178	917690	50.323	ng	99
71) Anthracene	11.36	178	254728	12.309	ng	99
72) Carbazole	11.52	167	113105	4.951	ng	99
74) Fluoranthene	12.50	202	868815	42.237	ng	95
77) Pyrene	12.73	202	789009	30.289	ng	98
80) Benzo(a)anthracene	13.91	228	411635	21.304	ng	99
82) Chrysene	13.94	228	333143	16.670	ng	98
85) Indeno(1,2,3-cd)pyrene	16.73	276	139801	8.427	ng	97
87) Benzo(b)fluoranthene	14.94	252	372936m	20.050	ng	
88) Benzo(k)fluoranthene	14.96	252	147138m	8.665	ng	
89) Benzo(a)pyrene	15.28	252	277477	16.890	ng	# 96
90) Dibenzo(a,h)anthracene	16.74	278	37701m	2.931	ng	
91) Benzo(g,h,i)perylene	17.14	276	127444	9.531	ng	98

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

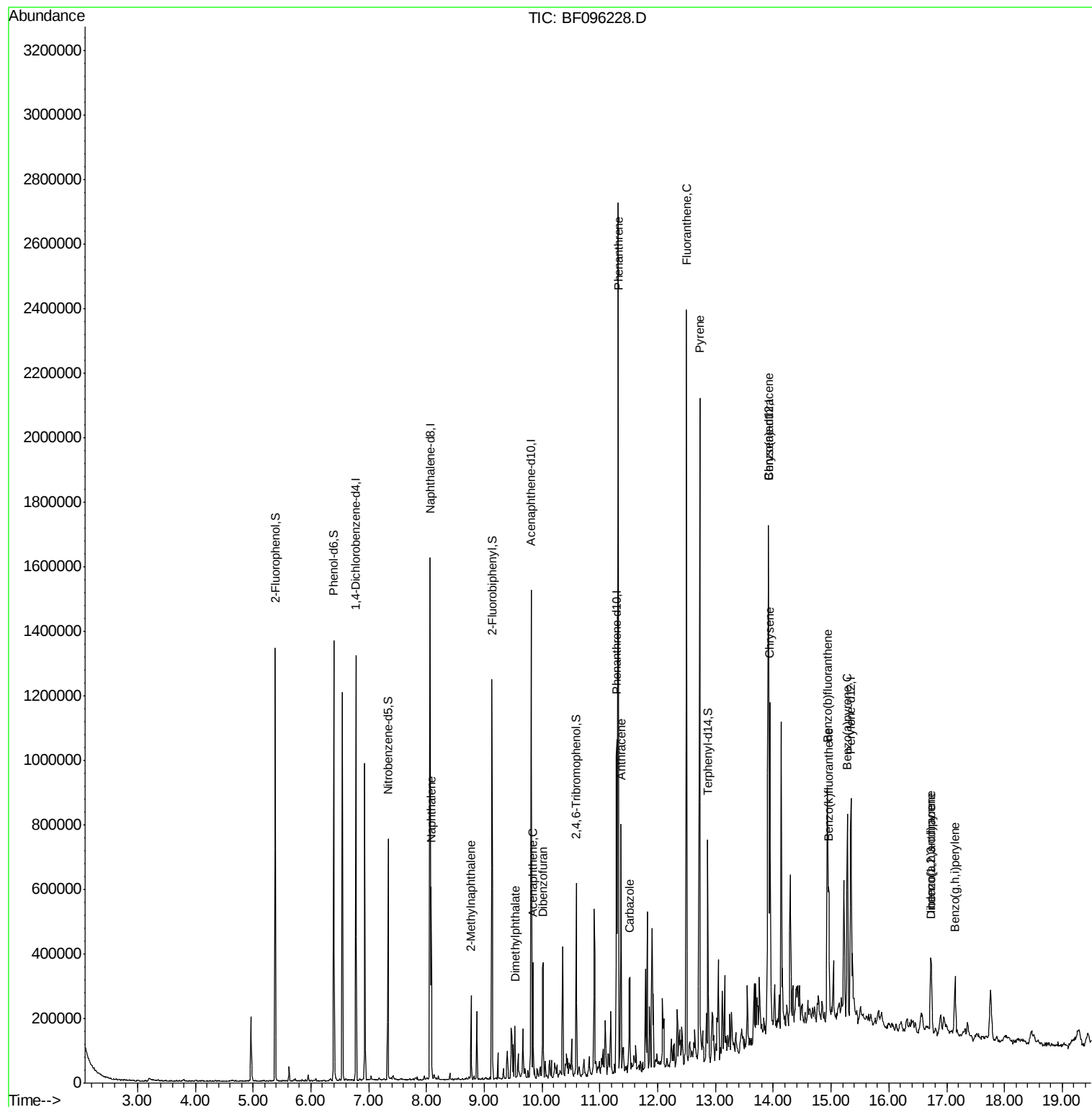
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
Data File : BF096228.D
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ALS Vial : 12 Sample Multiplier: 1

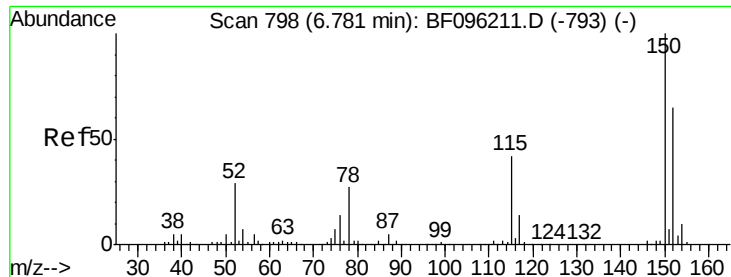
Instrument :
BNA_F
ClientSampleId :
OB-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

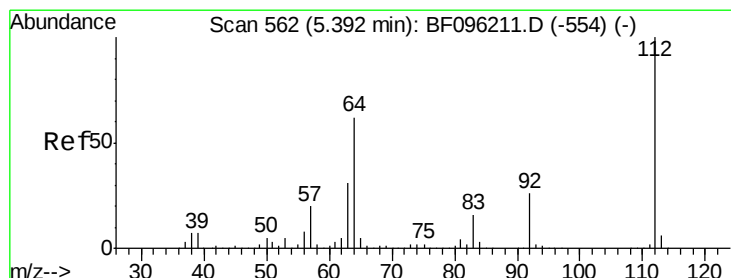
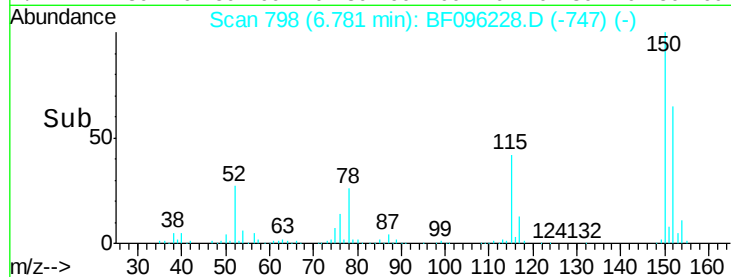
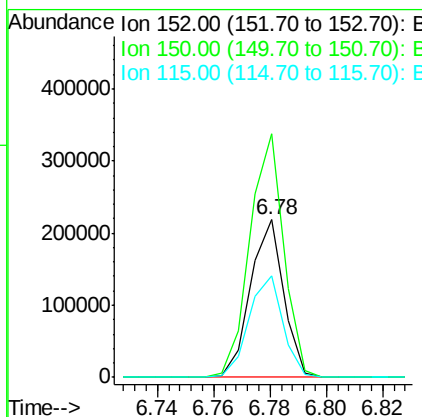
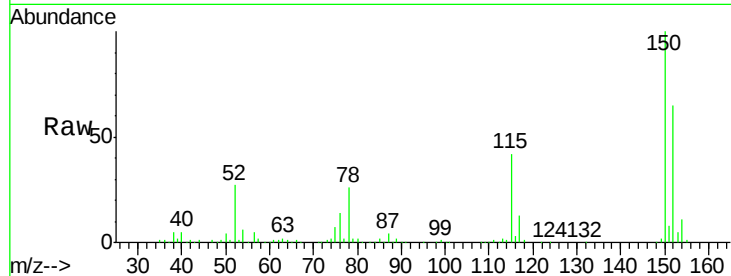
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampled :
OB-4

Tgt	Ion	Ratio	Resp	Lower	Upper
152	100		178698		
150	154.4	126.2	189.2		
115	64.3	52.2	78.2		

Manual Integrations
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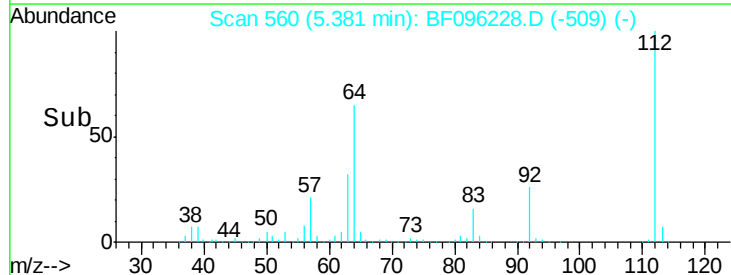
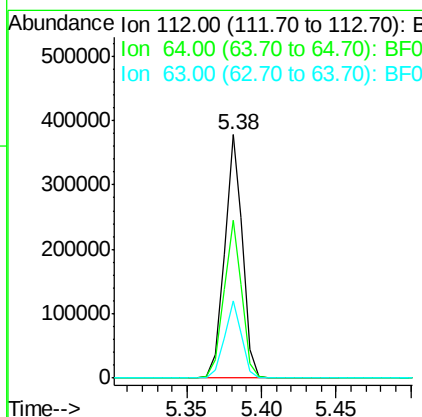
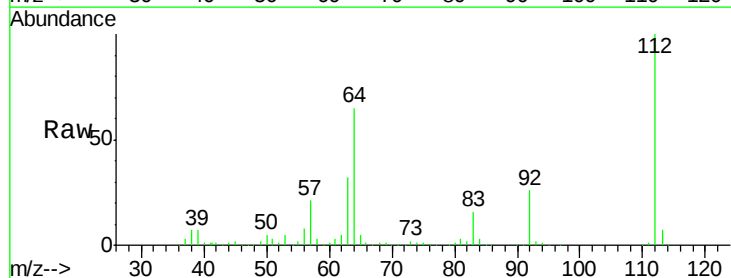
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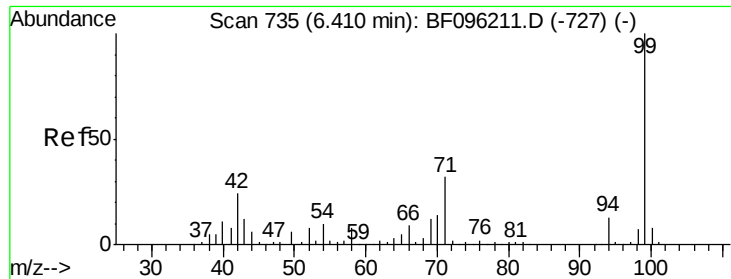


#5

2-Fluorophenol
Concen: 25.886 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		321083		
64	64.9	46.0	69.0		
63	31.5	23.4	35.0		





#7

Phenol-d6

Concen: 25.624 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Instrument :

BNA_F

ClientSampleId :

OB-4

Tgt Ion: 99 Resp: 384852

Ion Ratio Lower Upper

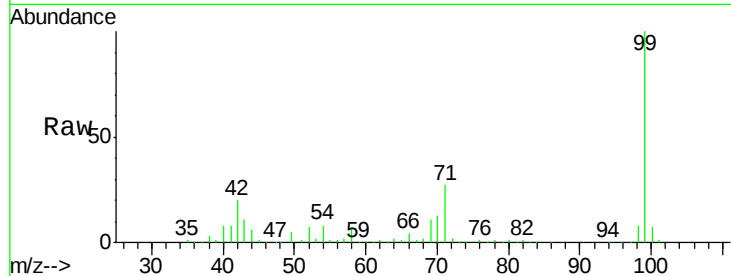
99 100

42 20.4 13.5 20.3#

71 27.5 24.5 36.7

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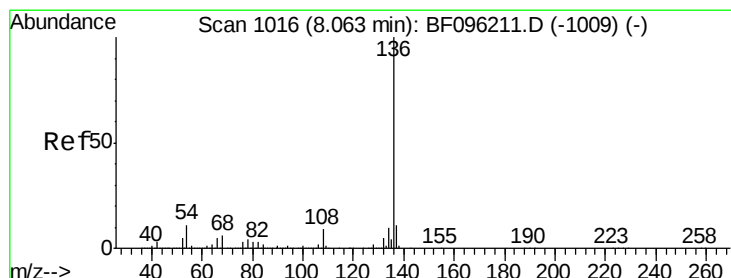
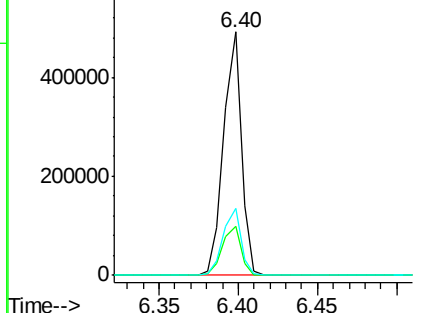
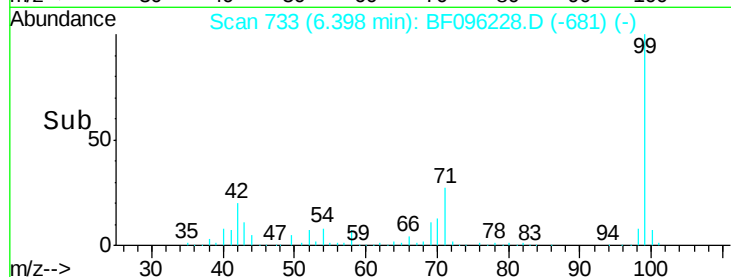
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1016

Delta R.T. 0.01 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Tgt Ion: 136 Resp: 735607

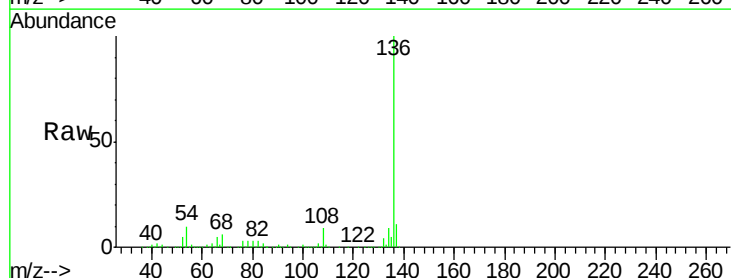
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 10.4 4.9 7.3#

68 5.9 4.1 6.1

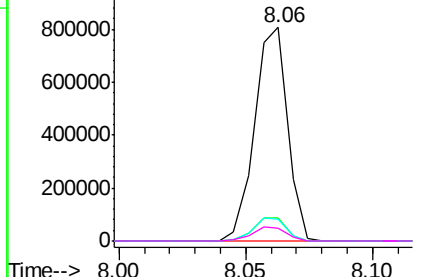
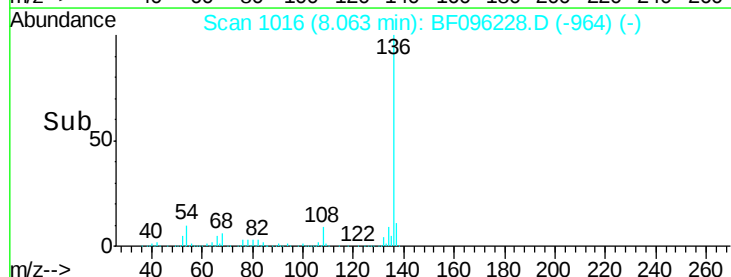


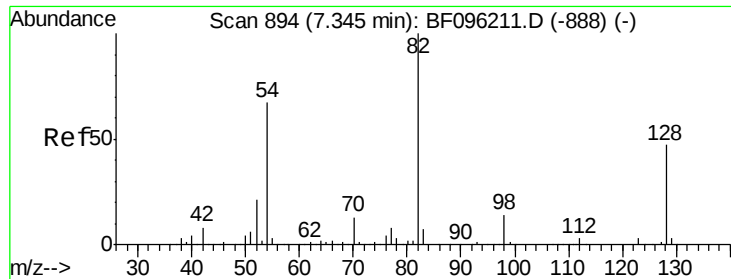
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





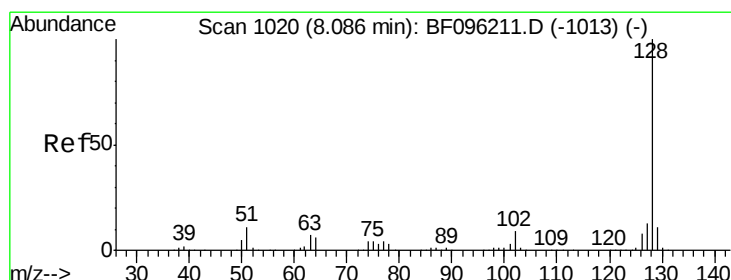
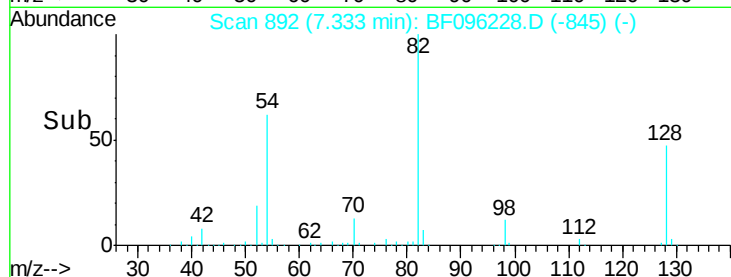
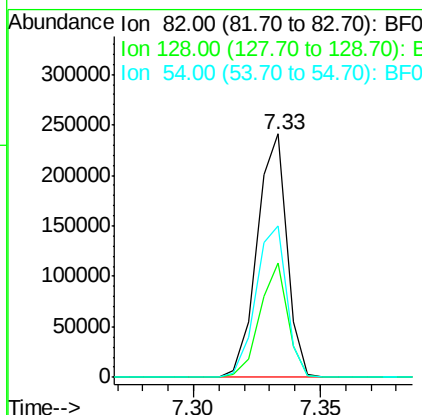
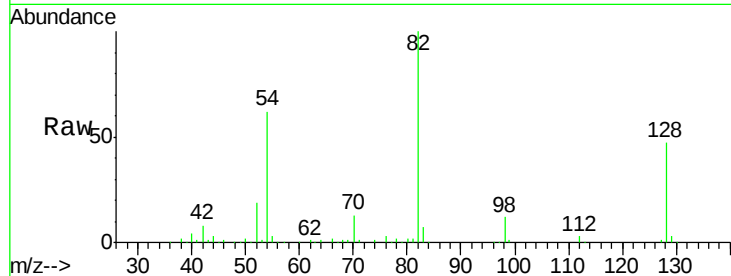
#23
Nitrobenzene-d5
Concen: 18.649 ng
RT: 7.33 min Scan# 892
Delta R.T. -0.02 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampleId :
OB-4

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	198171		
128	46.8	34.0	51.0	
54	62.0	42.2	63.2	

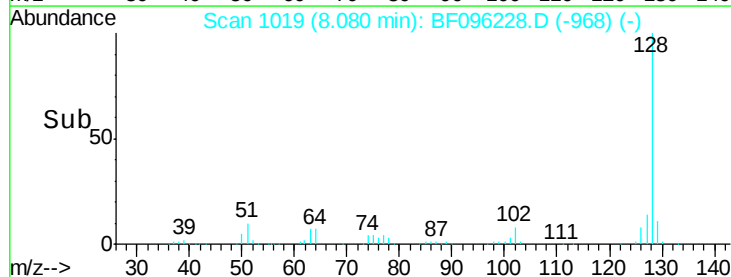
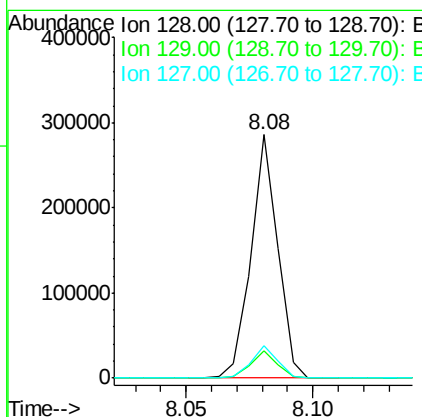
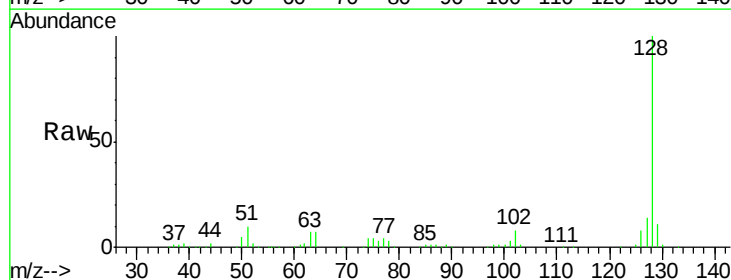
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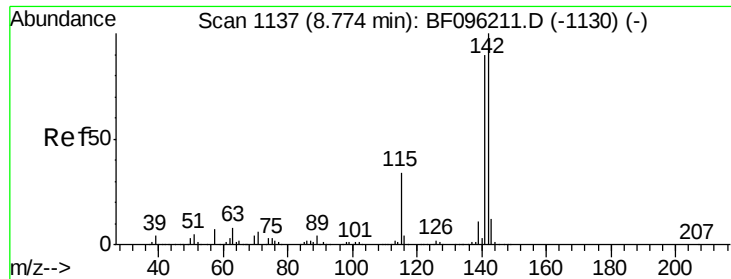
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#31
Naphthalene
Concen: 5.928 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	210174		
129	11.2	9.0	13.6	
127	13.5	10.8	16.2	





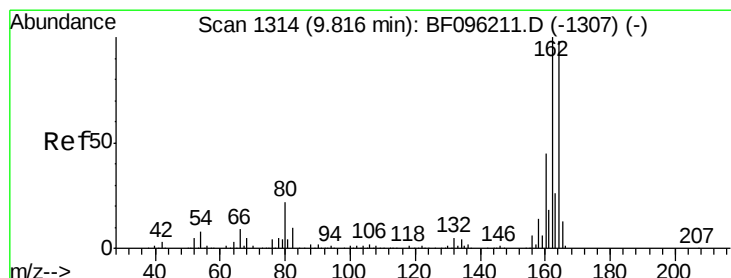
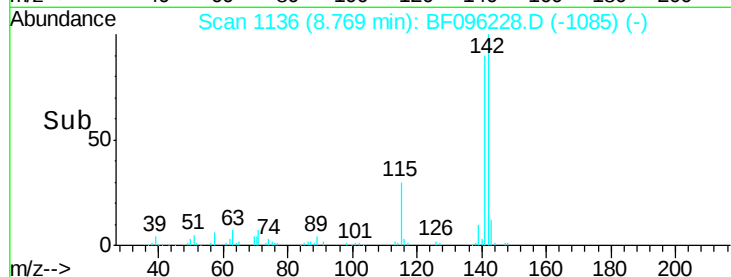
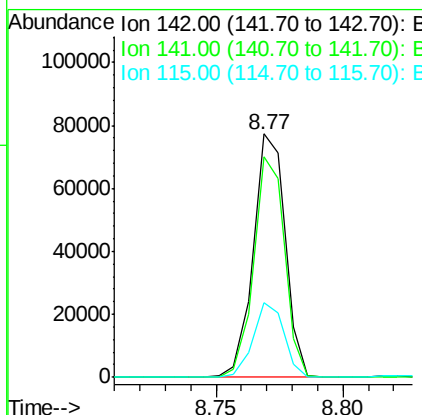
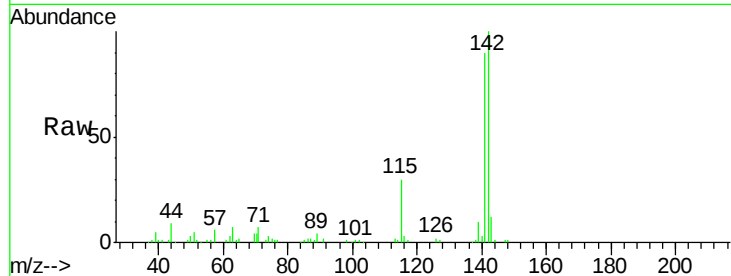
#37
2-Methylnaphthalene
Concen: 2.956 ng
RT: 8.77 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampled :
OB-4

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.3	106.9
115	30.5	27.1	40.7

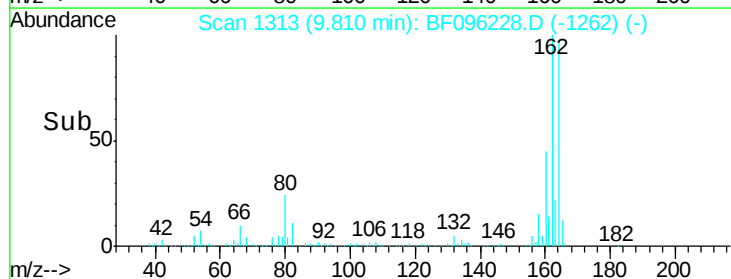
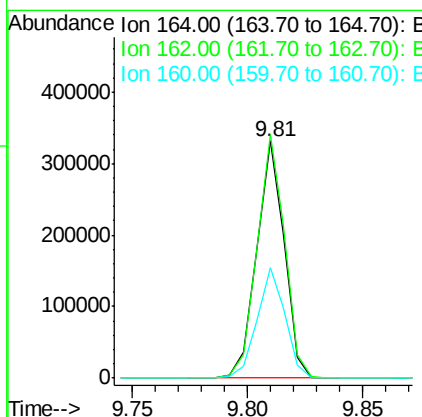
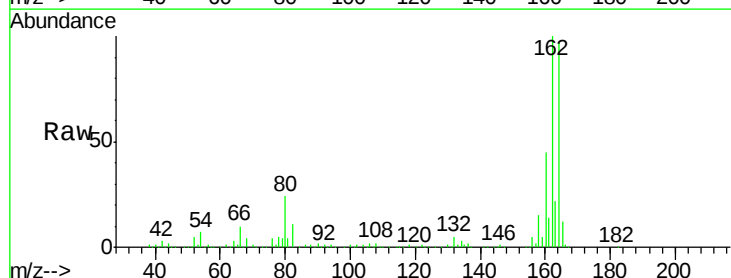
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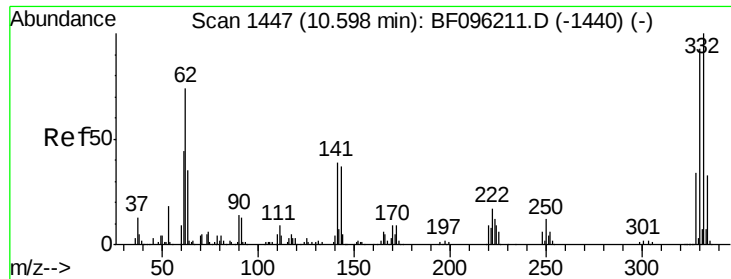
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.6	123.8
160	46.4	36.2	54.2





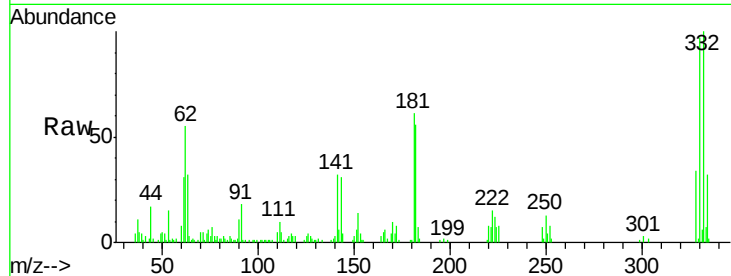
#41
 2,4,6-Tribromophenol
 Concen: 21.238 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.00 min
 Lab File: BF096228.D
 Acq: 27 Jun 2017 20:49

Instrument :
 BNA_F
 ClientSampleId :
 OB-4

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	45984		
332	102.8	76.6	115.0	
141	41.7	31.4	47.2	

Manual Integrations
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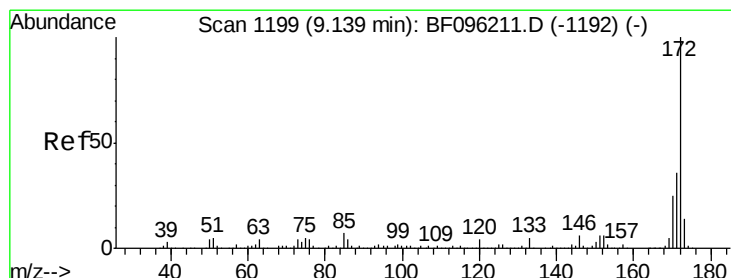
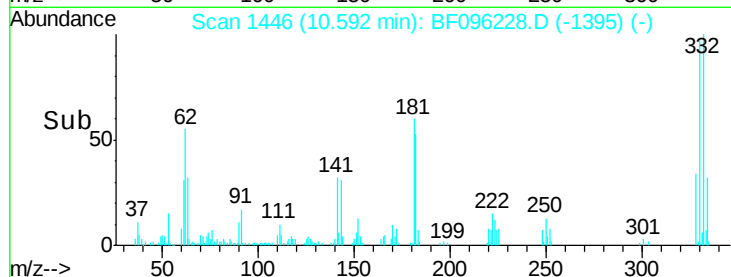
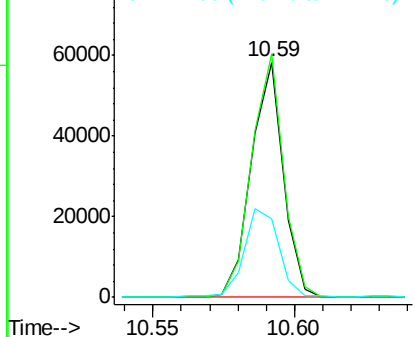


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 21.231 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: BF096228.D
 Acq: 27 Jun 2017 20:49

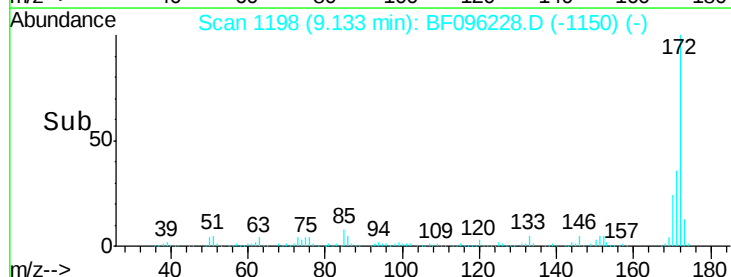
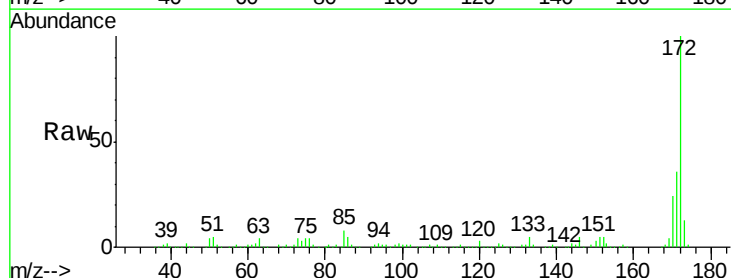
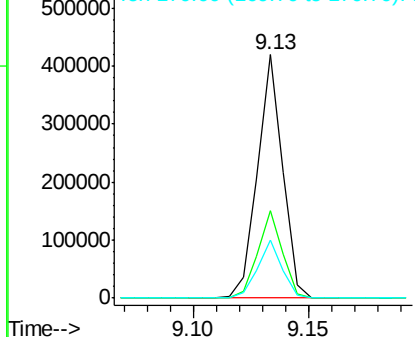
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	318953		
171	35.7	29.6	44.4	
170	23.8	19.8	29.8	

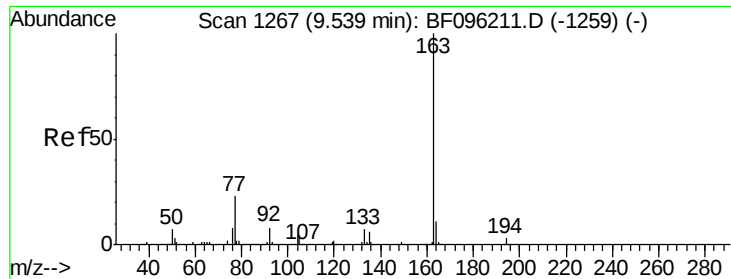
Abundance

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





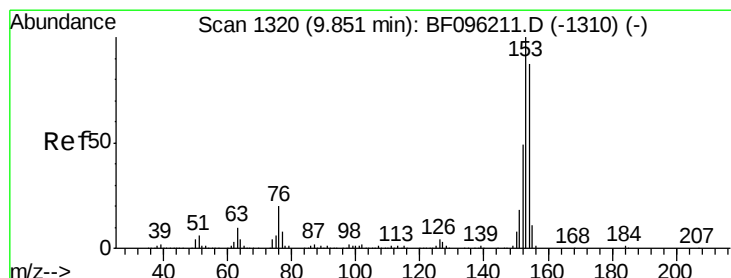
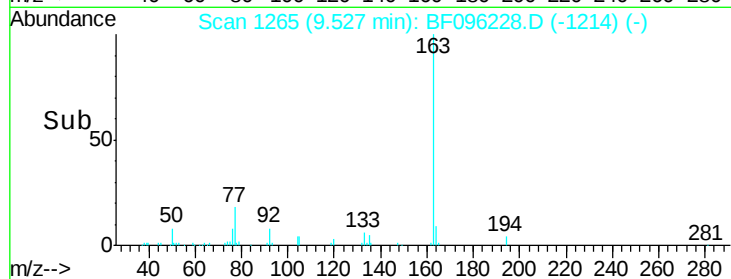
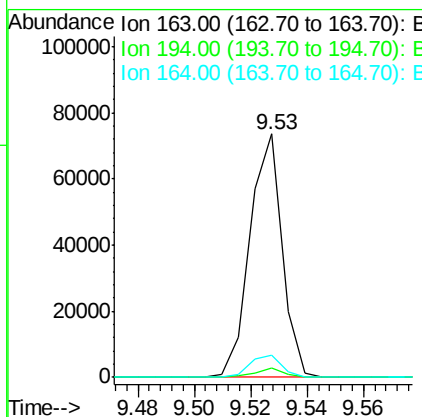
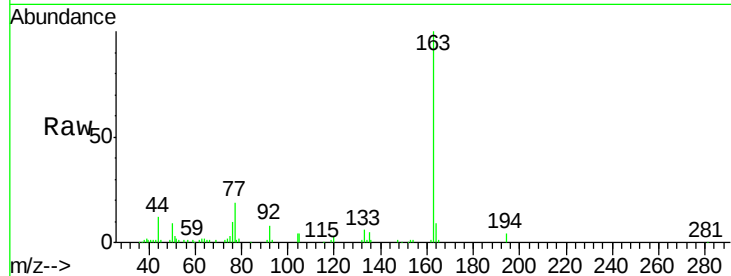
#49
Dimethylphthalate
Concen: 2.947 ng
RT: 9.53 min Scan# 1265
Delta R.T. -0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampled :
OB-4

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.7	2.6	4.0
164	9.3	8.4	12.6

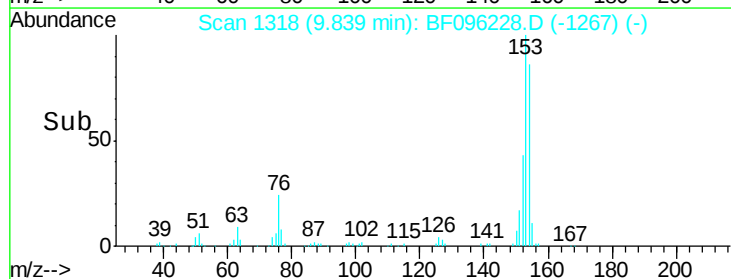
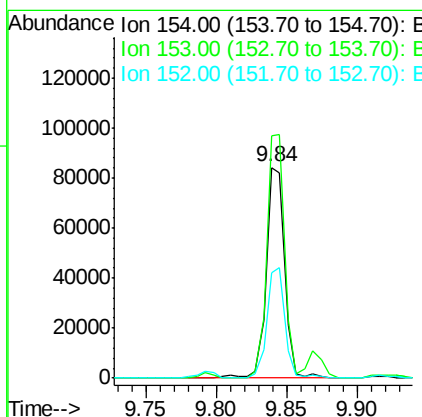
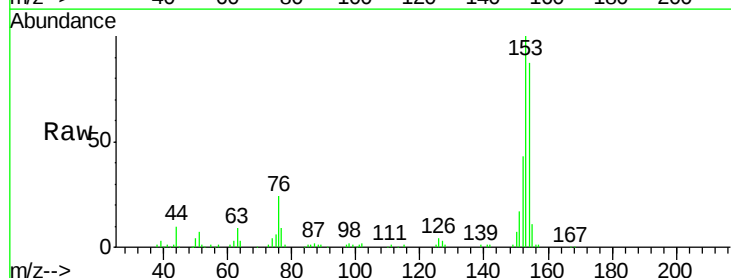
Manual Integrations
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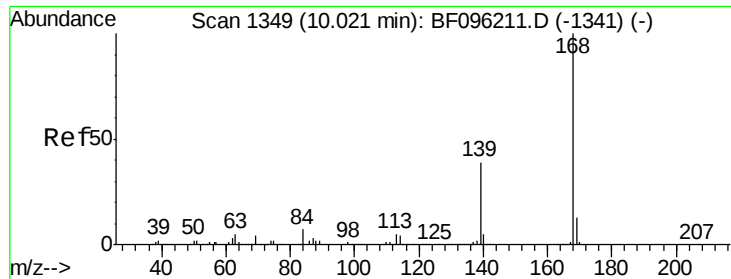
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#51
Acenaphthene
Concen: 4.586 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	115.5	90.5	135.7
152	49.9	43.6	65.4





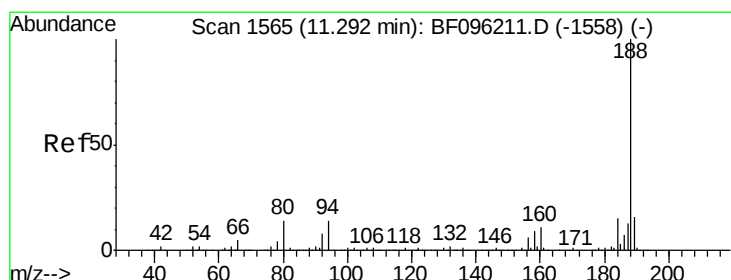
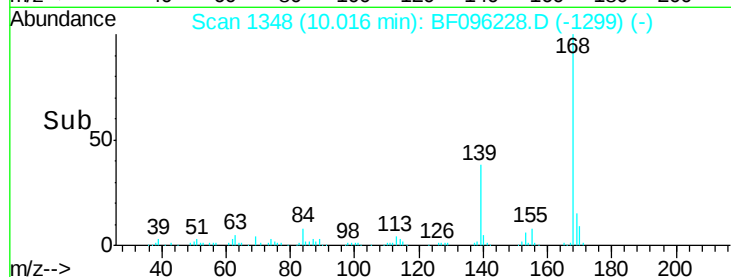
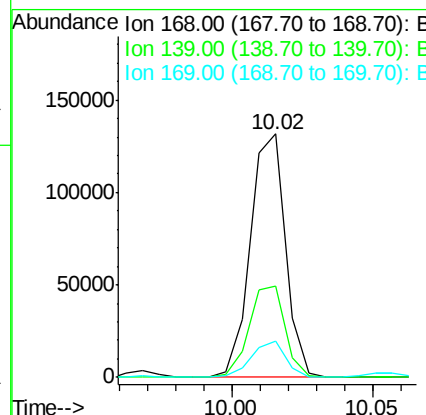
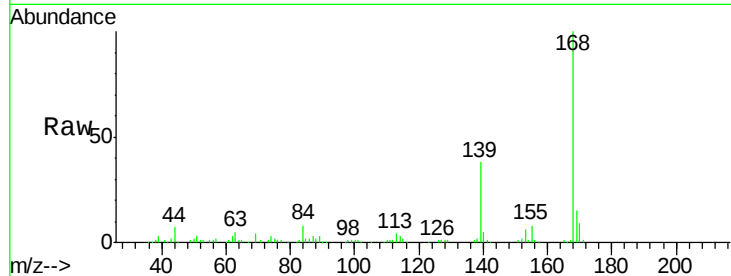
#54
Dibenzofuran
Concen: 5.098 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampleId :
OB-4

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	113831		
139	37.7	30.6	45.8	
169	14.8	10.8	16.2	

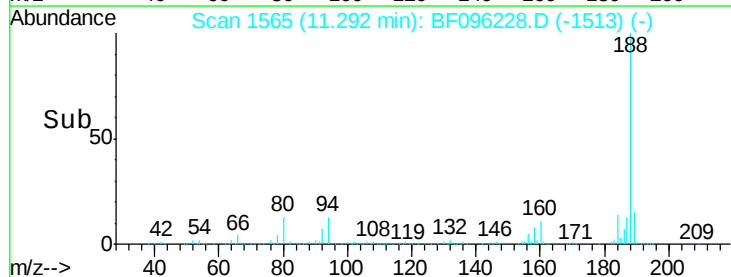
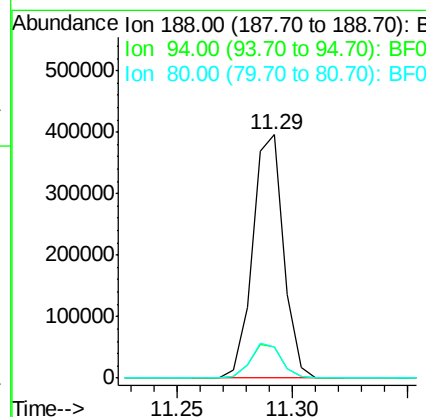
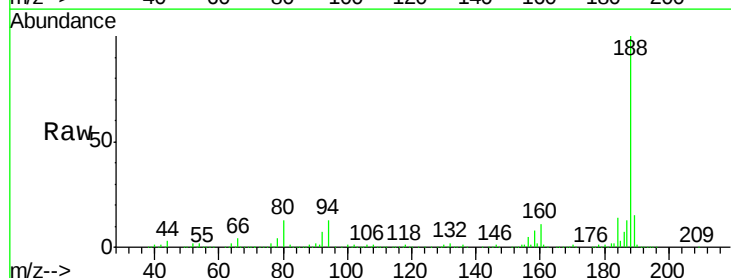
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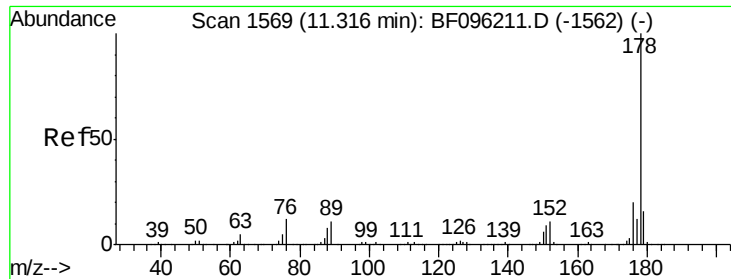
mohammad
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#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.29 min Scan# 1565
Delta R.T. 0.01 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	370303		
94	12.6	9.4	14.2	
80	12.6	10.2	15.2	





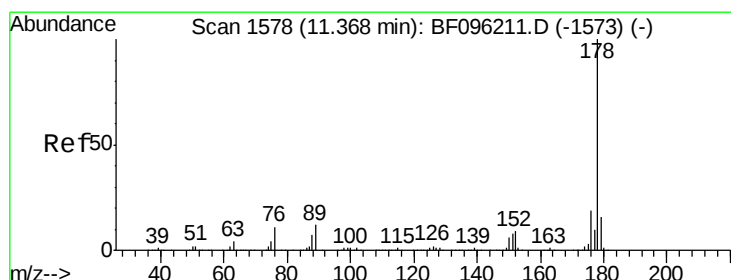
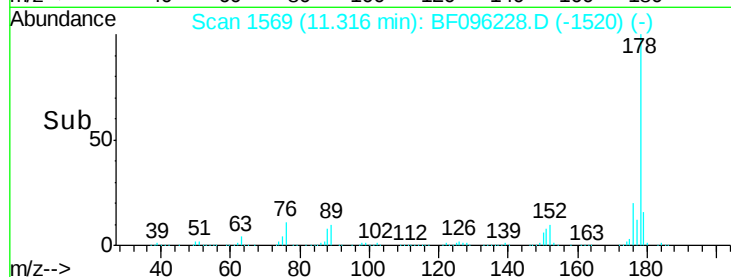
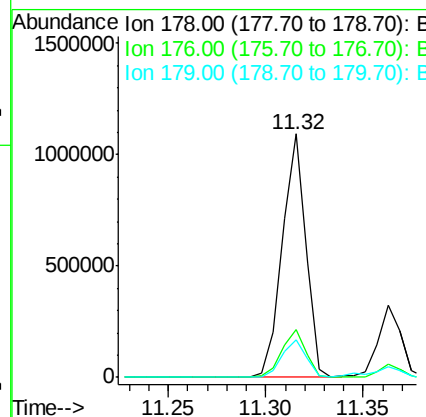
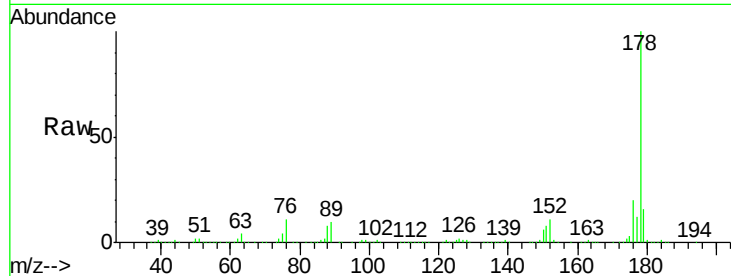
#70
 Phenanthrene
 Concen: 50.323 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF096228.D
 Acq: 27 Jun 2017 20:49

Instrument :
 BNA_F
 ClientSampled :
 OB-4

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.2	24.4
179	15.6	12.6	19.0

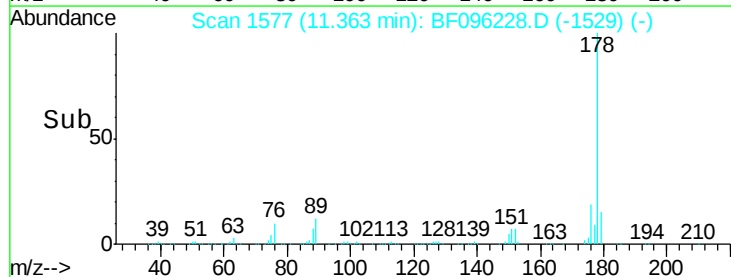
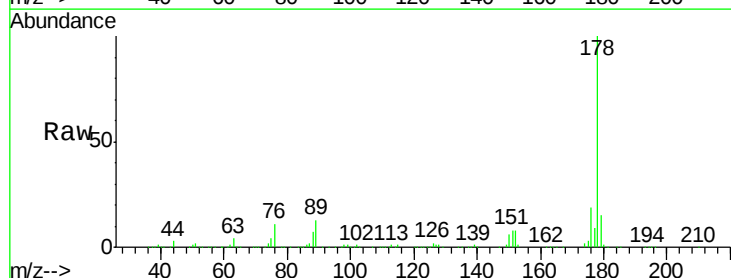
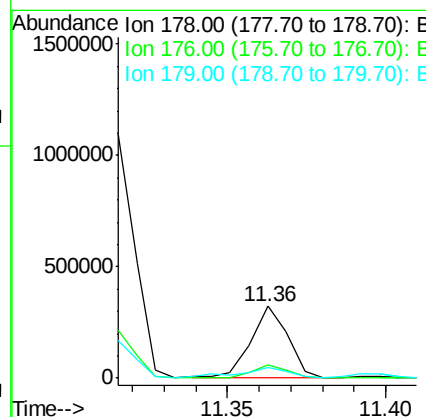
Manual Integrations
 APPROVED

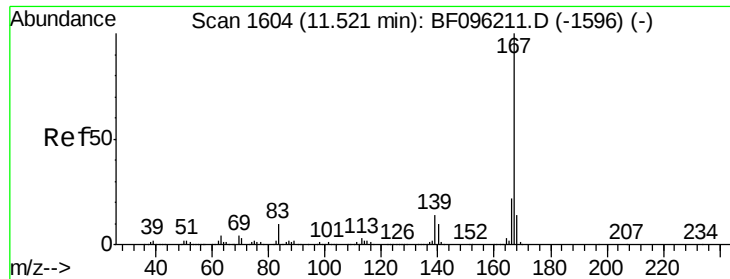
mohammad
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#71
 Anthracene
 Concen: 12.309 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: BF096228.D
 Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.5	12.7	19.1





#72

Carbazole

Concen: 4.951 ng

RT: 11.52 min Scan# 1603

Delta R.T. 0.01 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Instrument :

BNA_F

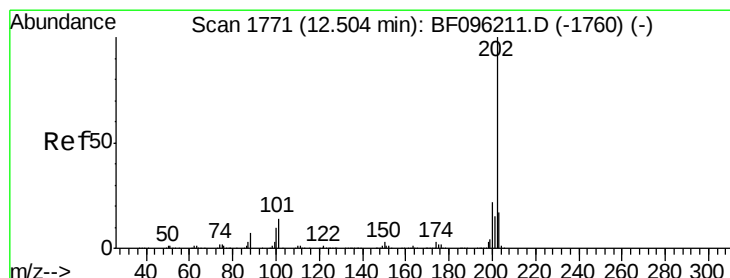
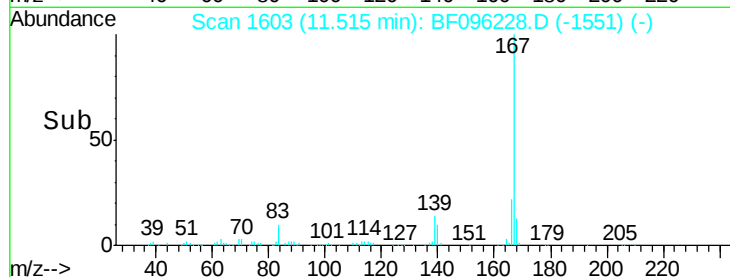
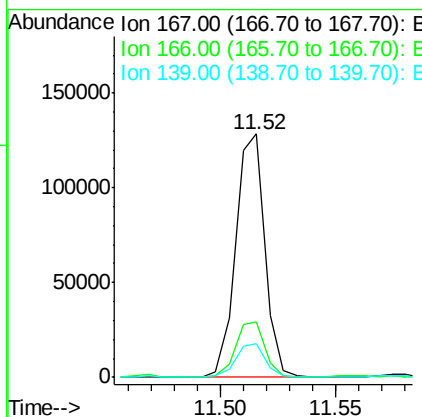
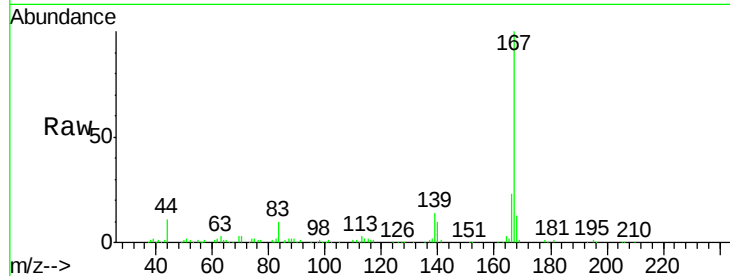
ClientSampleId :

OB-4

Tgt Ion:	167	Resp:	113105
Ion Ratio	Lower	Upper	
167	100		
166	22.7	18.1	27.1
139	13.7	11.7	17.5

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#74

Fluoranthene

Concen: 42.237 ng

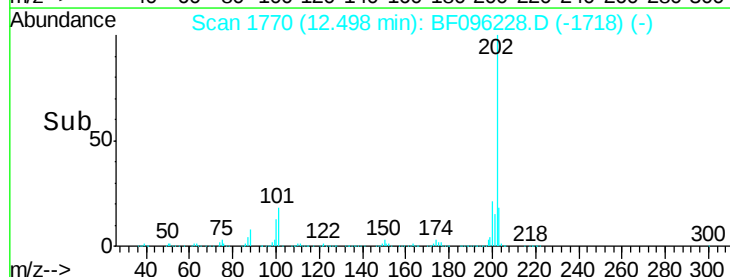
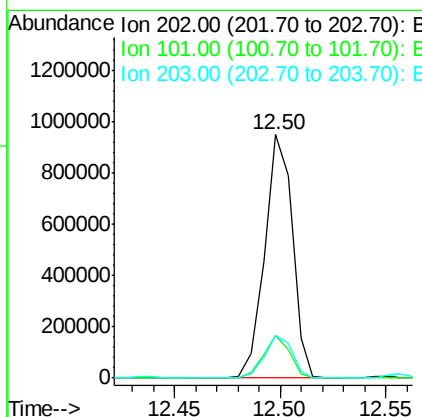
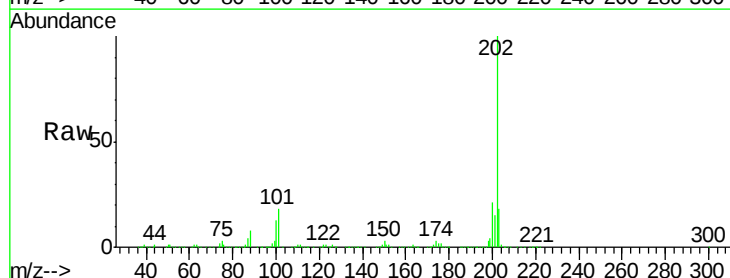
RT: 12.50 min Scan# 1770

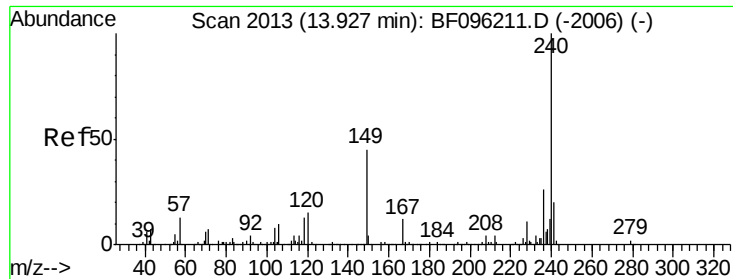
Delta R.T. 0.01 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Tgt Ion:	202	Resp:	868815
Ion Ratio	Lower	Upper	
202	100		
101	17.5	0.0	33.2
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.92 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Instrument :

BNA_F

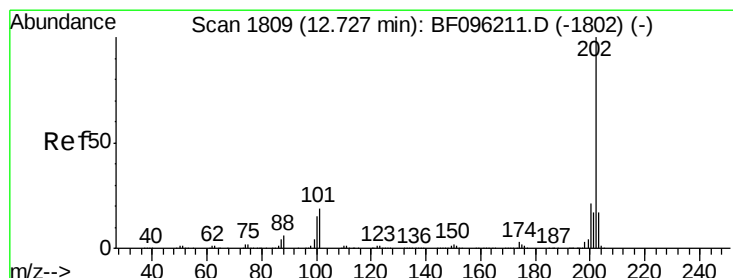
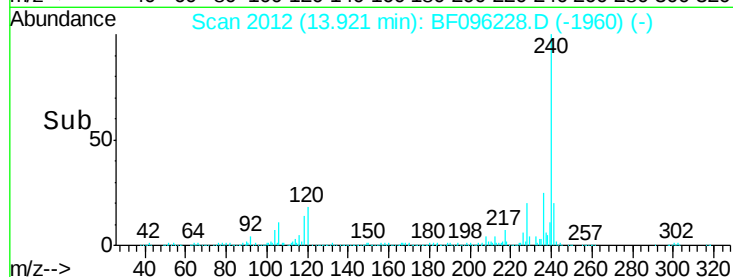
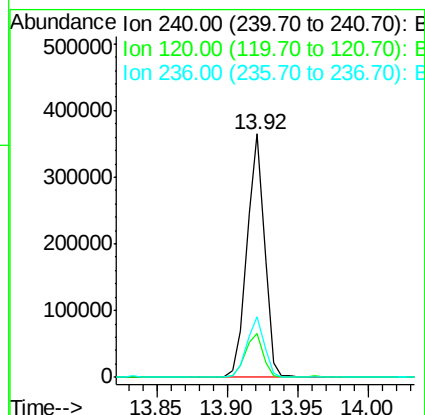
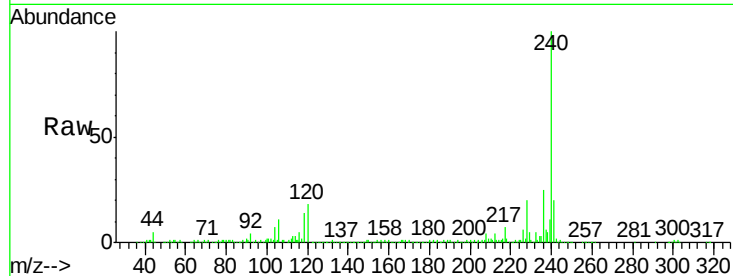
ClientSampled :

OB-4

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	316975		
120	17.9	5.8	8.8#	
236	25.1	20.5	30.7	

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#77

Pyrene

Concen: 30.289 ng

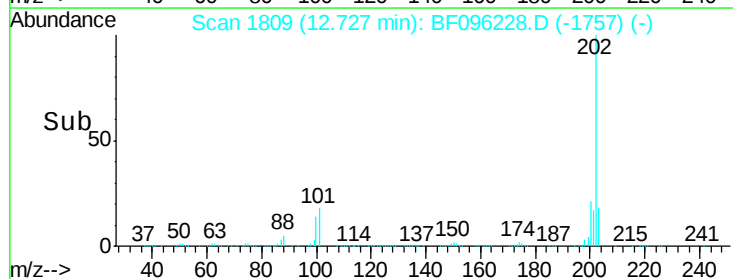
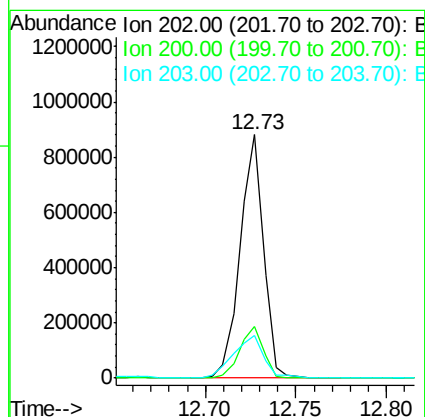
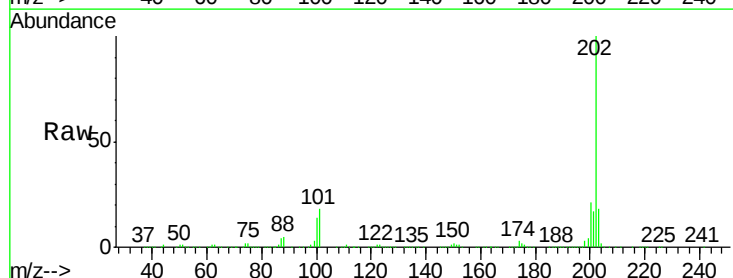
RT: 12.73 min Scan# 1809

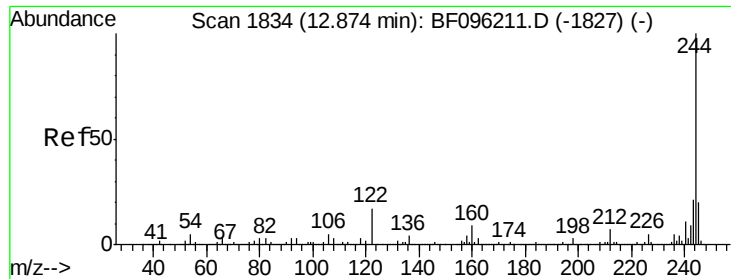
Delta R.T. 0.01 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	789009		
200	21.0	17.6	26.4	
203	17.7	14.4	21.6	





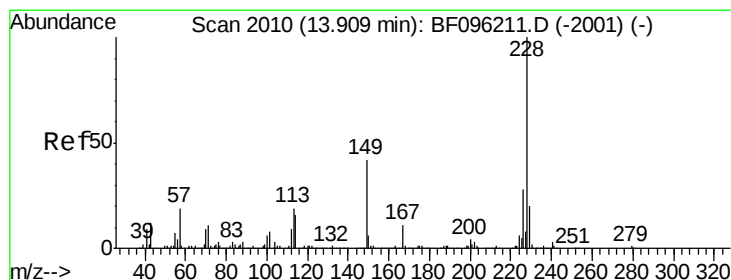
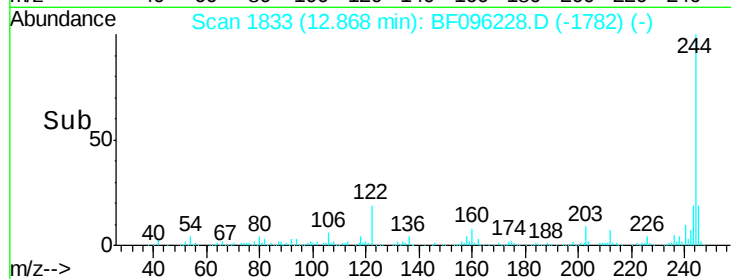
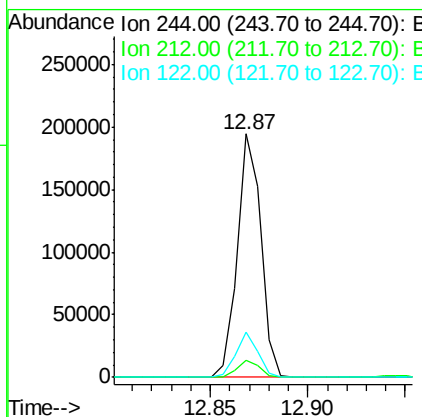
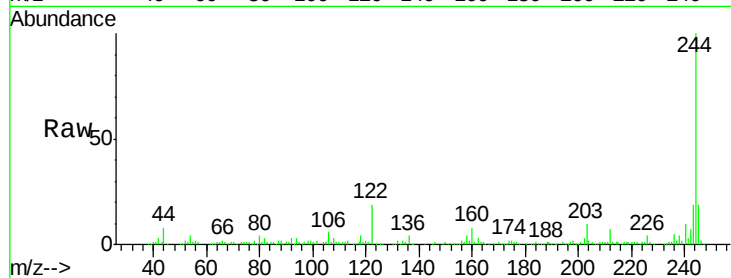
#78
 Terphenyl-d14
 Concen: 12.794 ng
 RT: 12.87 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: BF096228.D
 Acq: 27 Jun 2017 20:49

Instrument :
 BNA_F
 ClientSampled :
 OB-4

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.0	6.0	9.0
122	18.8	10.3	15.5

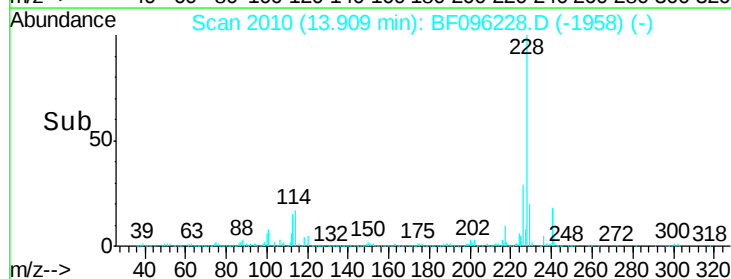
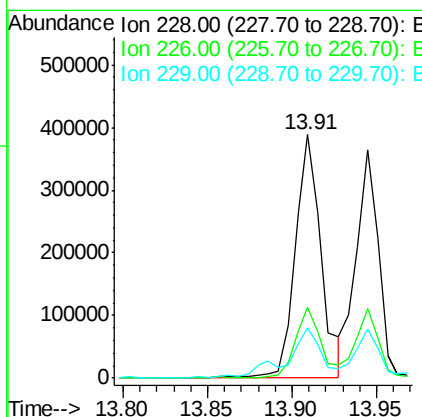
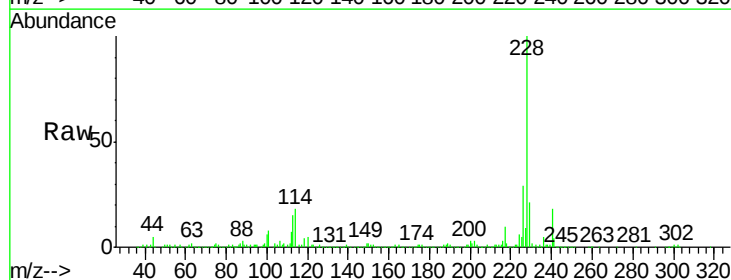
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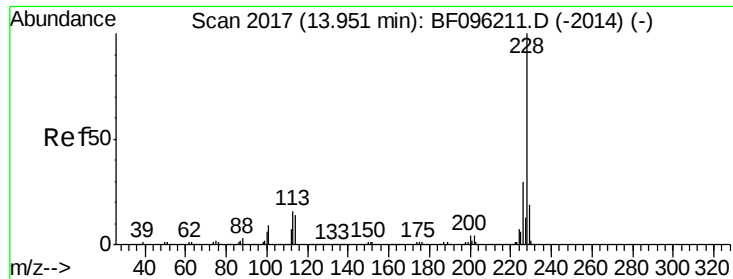
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#80
 Benzo(a)anthracene
 Concen: 21.304 ng
 RT: 13.91 min Scan# 2010
 Delta R.T. 0.01 min
 Lab File: BF096228.D
 Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	20.7	16.3	24.5





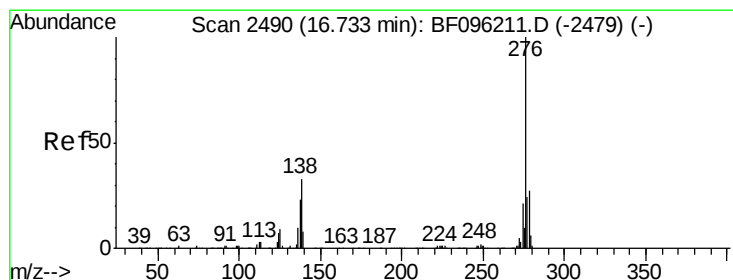
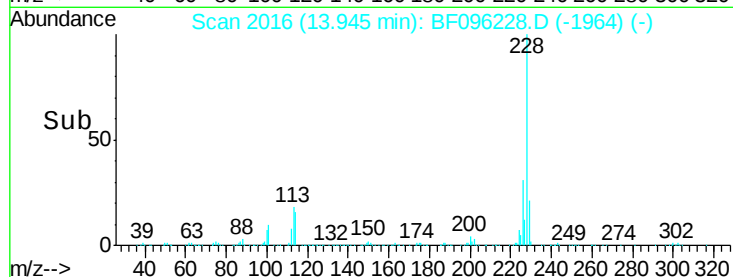
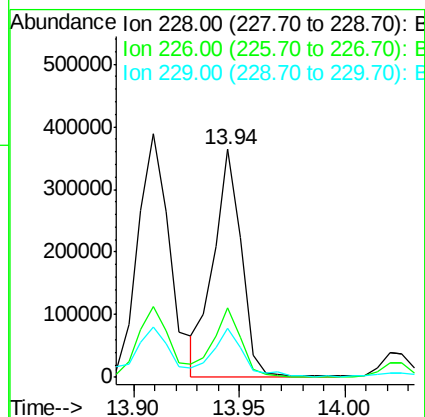
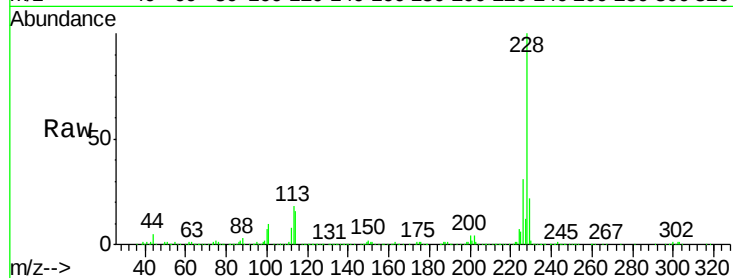
#82
Chrysene
Concen: 16.670 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampled :
OB-4

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.9	37.3
229	21.5	15.8	23.6

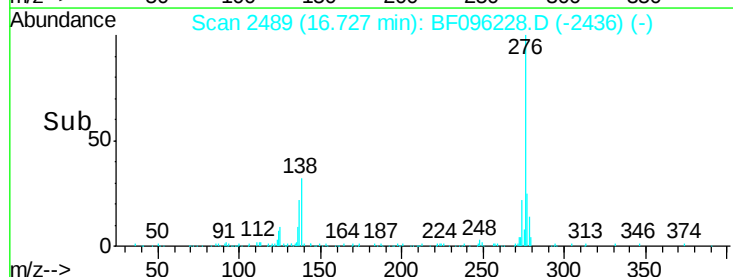
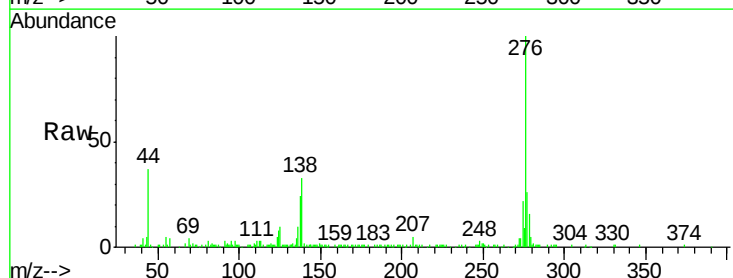
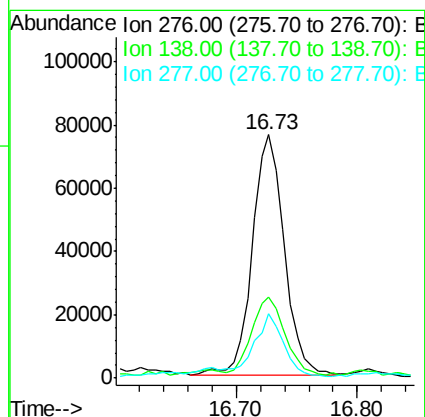
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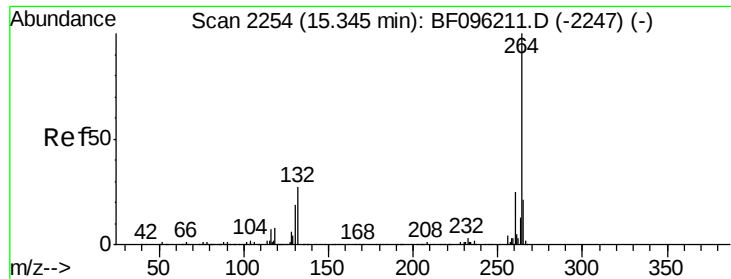
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 8.427 ng
RT: 16.73 min Scan# 2489
Delta R.T. 0.01 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Lower	Upper
276	100		
138	33.8	27.8	41.6
277	23.1	20.2	30.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.34 min Scan# 2254

Delta R.T. 0.01 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Instrument :

BNA_F

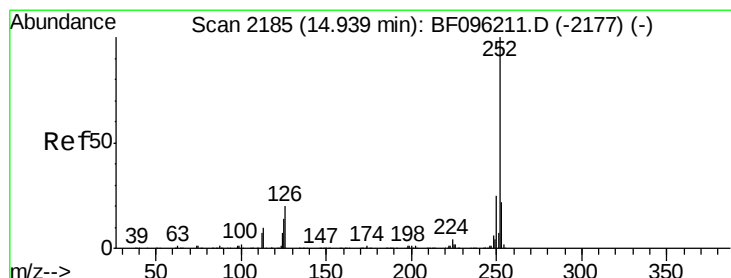
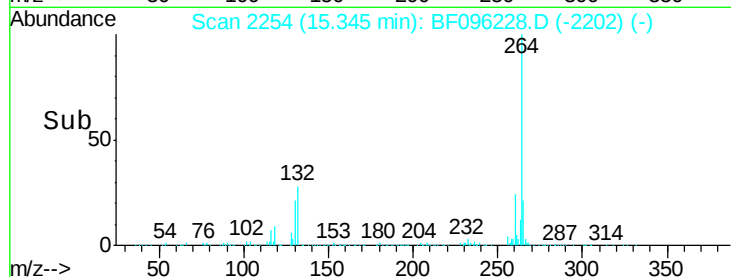
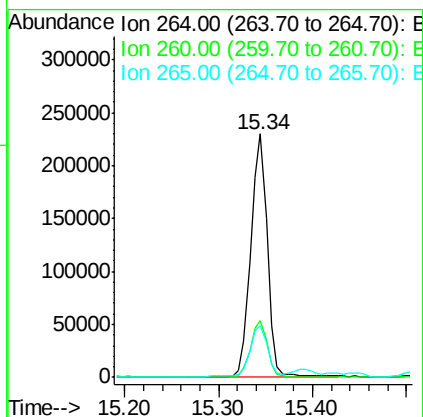
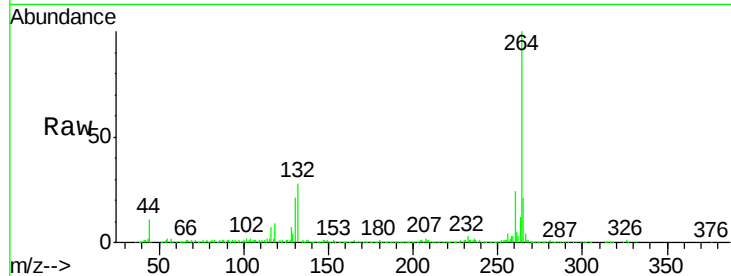
ClientSampleId :

OB-4

Tgt Ion:	264	Resp:	283142
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.5	29.3
265	21.5	17.2	25.8

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#87

Benzo(b)fluoranthene

Concen: 20.050 ng m

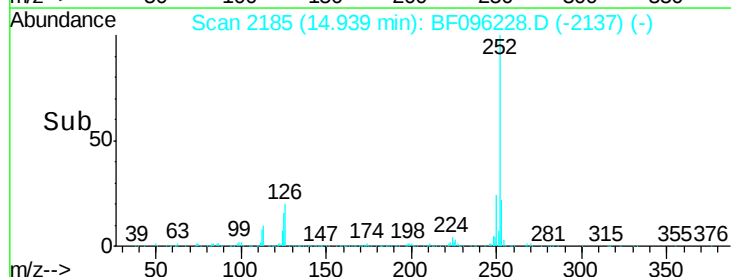
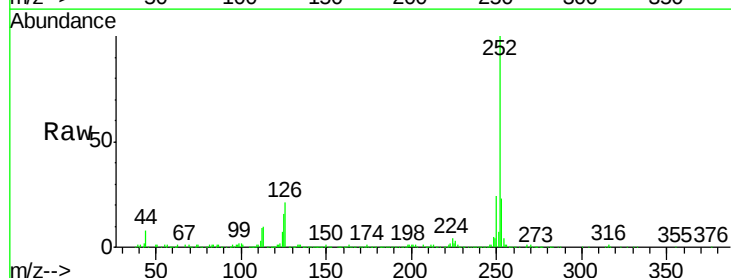
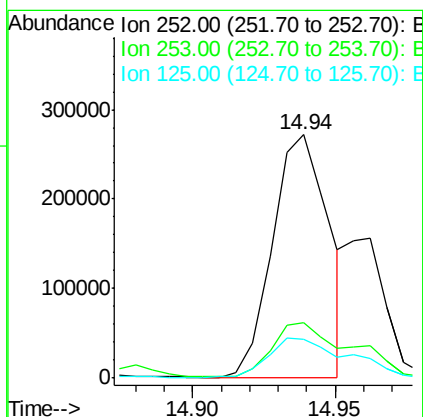
RT: 14.94 min Scan# 2185

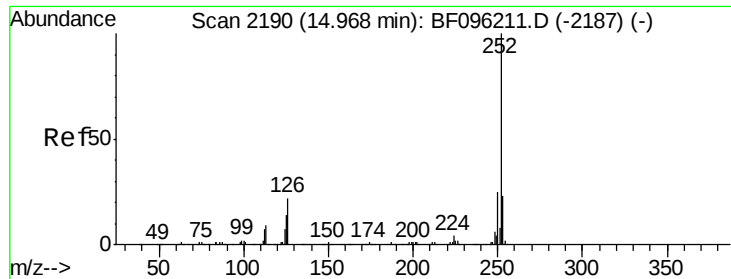
Delta R.T. -0.02 min

Lab File: BF096228.D

Acq: 27 Jun 2017 20:49

Tgt Ion:	252	Resp:	372936
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.1	27.1
125	15.9	9.8	14.8#





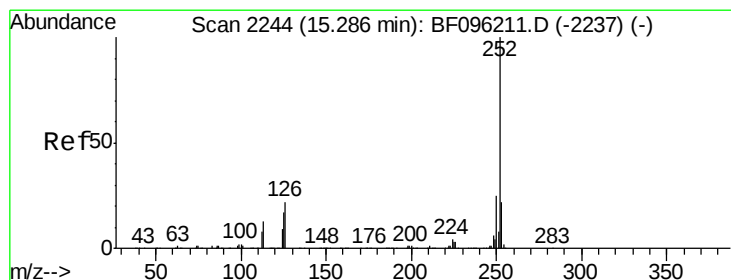
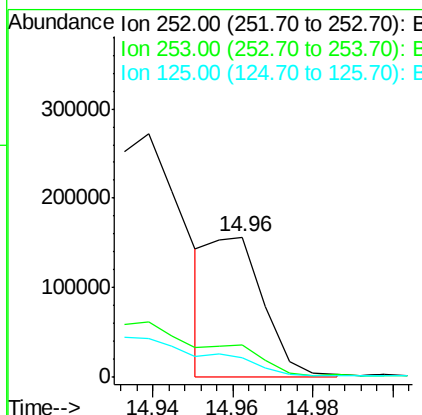
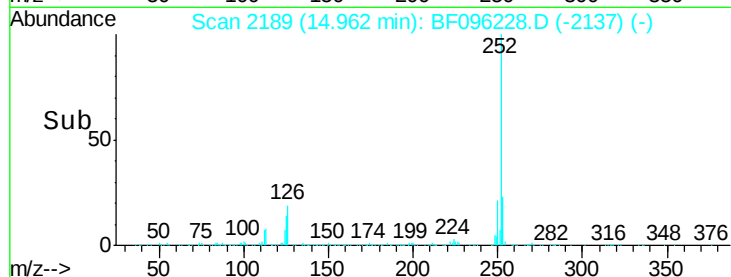
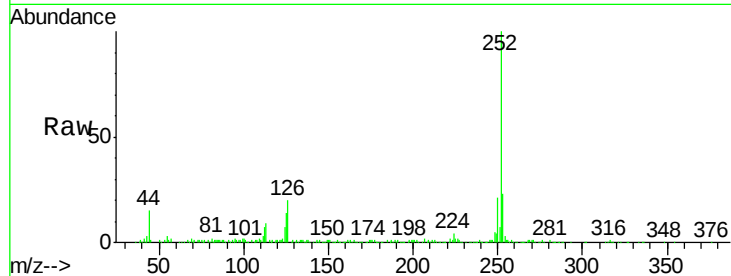
#88
Benzo(k)fluoranthene
Concen: 8.665 ng m
RT: 14.96 min Scan# 2189
Delta R.T. 0.01 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampled :
OB-4

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	14.3	13.1	19.7

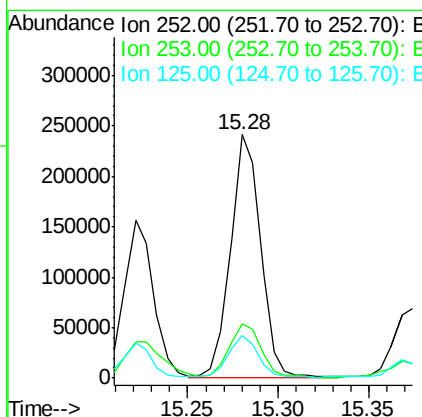
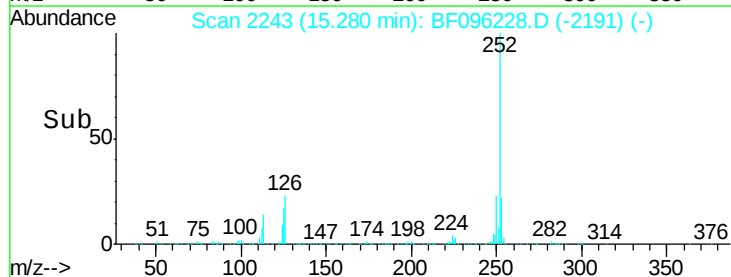
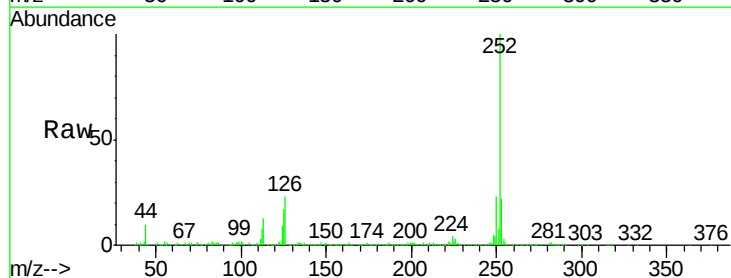
Manual Integrations
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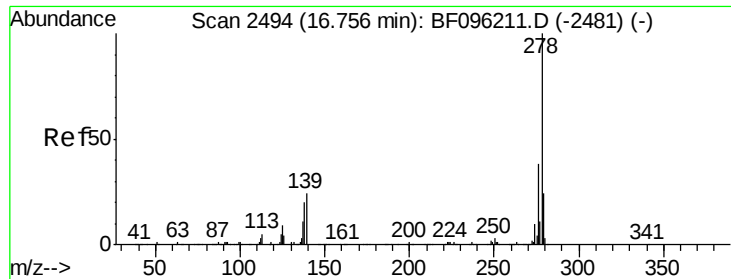
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#89
Benzo(a)pyrene
Concen: 16.890 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	17.3	11.0	16.4





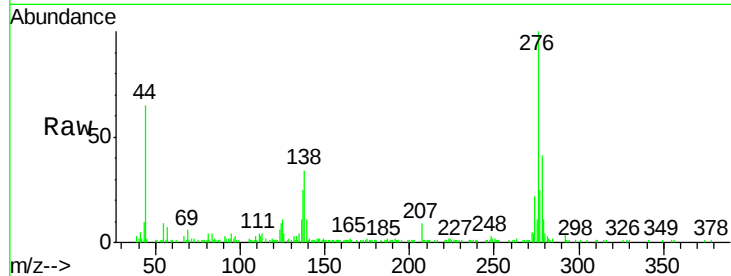
#90
Dibenzo(a,h)anthracene
Concen: 2.931 ng m
RT: 16.74 min Scan# 2491
Delta R.T. -0.00 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Instrument :
BNA_F
ClientSampled :
OB-4

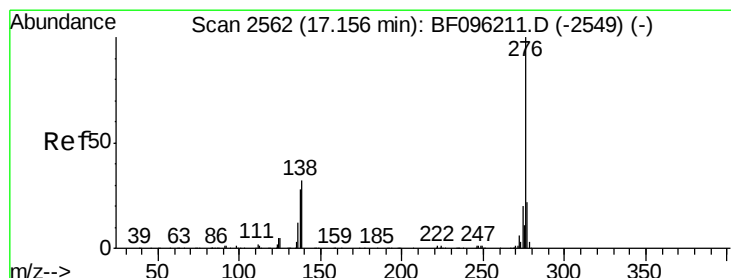
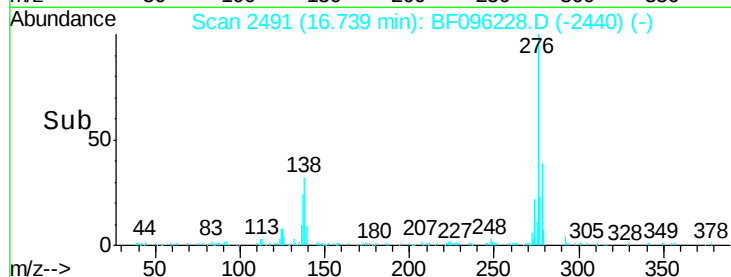
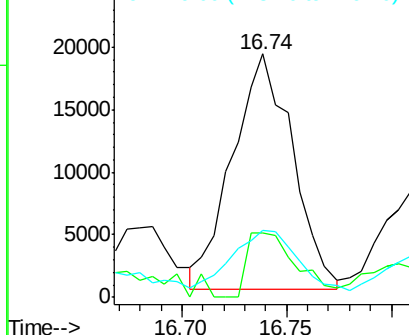
Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.4	16.6	24.8#
279	27.3	19.3	28.9

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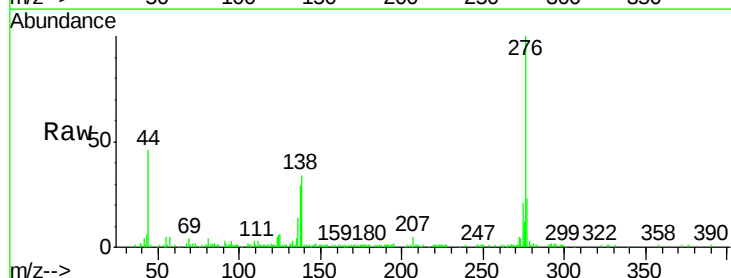


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 9.531 ng
RT: 17.14 min Scan# 2560
Delta R.T. 0.01 min
Lab File: BF096228.D
Acq: 27 Jun 2017 20:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	33.9	25.4	38.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

