

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093929.D
 Acq On : 25 Mar 2017 1:41
 Operator : SJ/MA
 Sample : I2364-02
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-11

Manual Integrations
 APPROVED

mohammad
 3/27/2017 12:56:49 PM

Quant Time: Mar 25 04:56:10 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.96	152	171772	20.00	ng	-0.03
21) Naphthalene-d8	7.46	136	670413	20.00	ng	-0.03
38) Acenaphthene-d10	9.60	164	284735	20.00	ng	-0.04
63) Phenanthrene-d10	11.43	188	423547	20.00	ng	-0.03
75) Chrysene-d12	14.69	240	315280	20.00	ng	-0.03
86) Perylene-d12	16.32	264	255902	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1080325	106.23	ng	0.00
7) Phenol-d6	5.56	99	1363961	108.41	ng	-0.01
23) Nitrobenzene-d5	6.61	82	835674	71.14	ng	-0.03
41) 2,4,6-Tribromophenol	10.58	330	231026	102.68	ng	-0.03
44) 2-Fluorobiphenyl	8.79	172	1315028	70.44	ng	-0.04
78) Terphenyl-d14	13.41	244	757375	53.85	ng	-0.03
Target Compounds						Qvalue
10) Phenol	5.57	94	62936	4.40	ng	95
31) Naphthalene	7.49	128	86301	2.68	ng	99
48) Acenaphthylene	9.43	152	246199	8.24	ng	98
49) Dimethylphthalate	9.28	163	218300	10.79	ng	99
57) Fluorene	10.28	166	64230	3.26	ng	99
70) Phenanthrene	11.46	178	419721	17.81	ng	98
71) Anthracene	11.52	178	124764	5.14	ng	97
74) Fluoranthene	12.93	202	772007	32.00	ng	100
77) Pyrene	13.21	202	1133726	49.55	ng	100
80) Benzo(a)anthracene	14.67	228	348706m	18.97	ng	
82) Chrysene	14.72	228	342354	20.07	ng	98
85) Indeno(1,2,3-cd)pyrene	17.70	276	185485	12.55	ng	96
87) Benzo(b)fluoranthene	15.92	252	402999m	25.69	ng	
88) Benzo(k)fluoranthene	15.93	252	130810m	8.52	ng	
89) Benzo(a)pyrene	16.26	252	330305	22.87	ng	99
90) Dibenzo(a,h)anthracene	17.72	278	36568	2.99	ng	# 87
91) Benzo(g,h,i)perylene	18.12	276	214227	17.38	ng	97

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

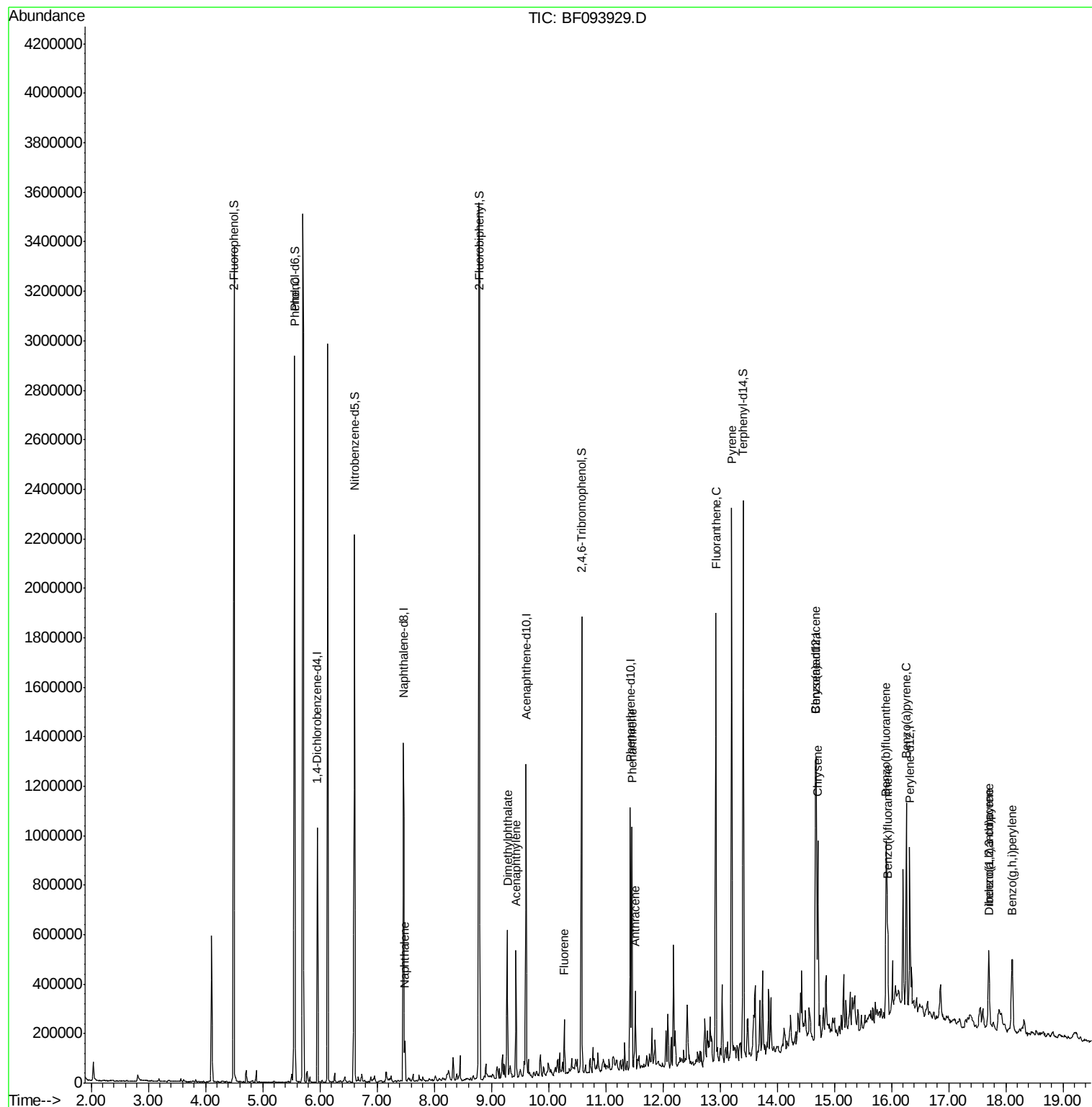
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
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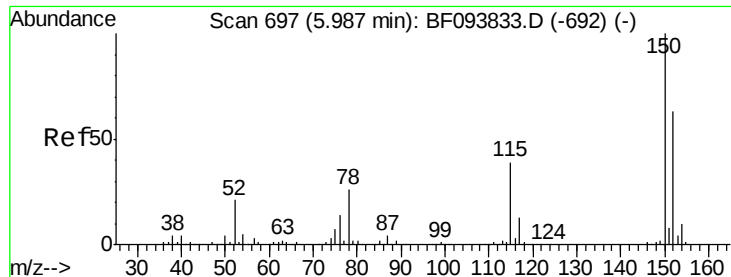
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#1

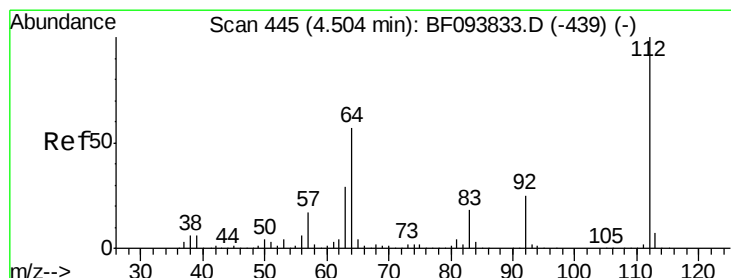
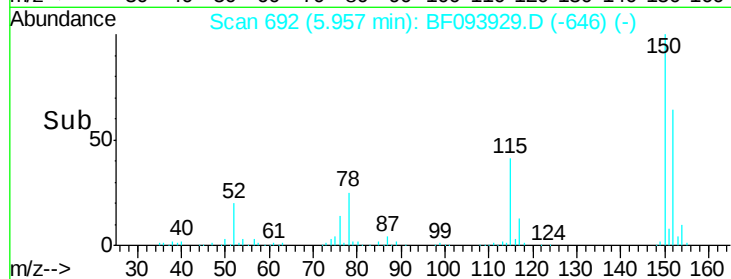
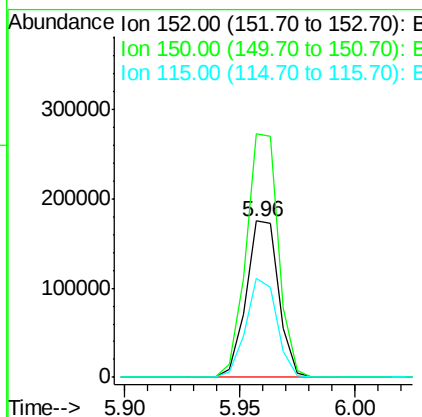
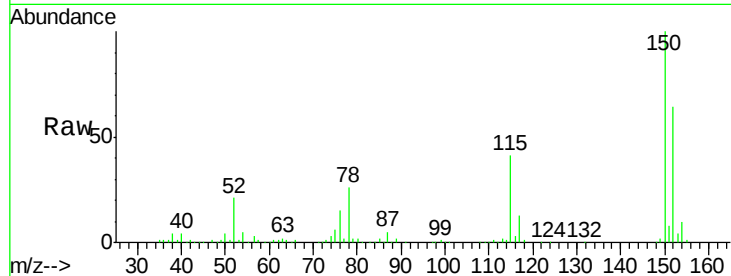
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.96 min Scan# 692
Delta R.T. -0.03 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Instrument :
BNA_F
ClientSampleId :
WC-COMP-11

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	126.2	189.2
115	63.8	52.2	78.2

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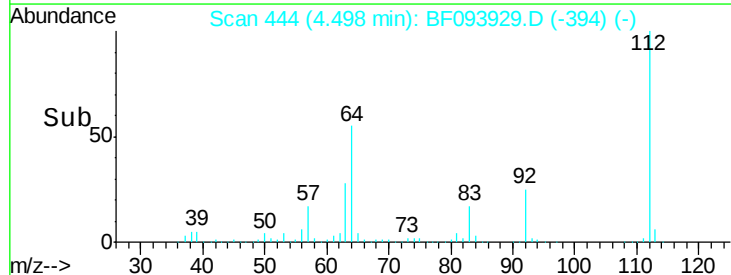
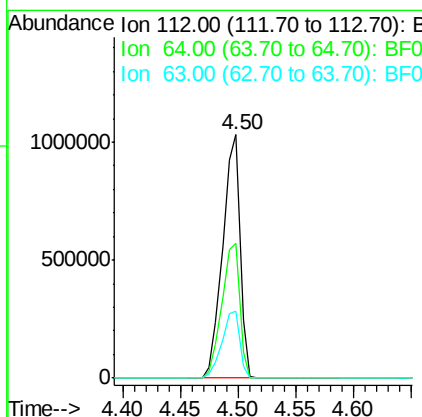
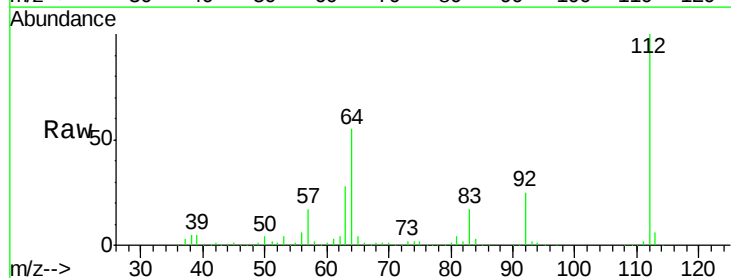
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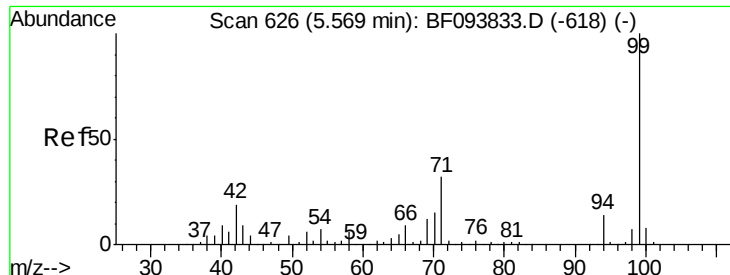


#5

2-Fluorophenol
Concen: 106.23 ng
RT: 4.50 min Scan# 444
Delta R.T. -0.01 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	46.0	69.0
63	27.7	23.4	35.0





#7

Phenol-d6

Concen: 108.41 ng

RT: 5.56 min Scan# 624

Delta R.T. -0.01 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Instrument :

BNA_F

ClientSampleId :

WC-COMP-11

Tot Ion: 99 Resp: 1363961

Ion Ratio Lower Upper

99 100

42 18.6 13.5 20.3

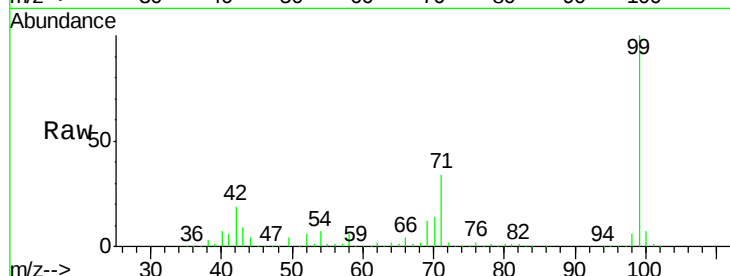
71 33.6 24.5 36.7

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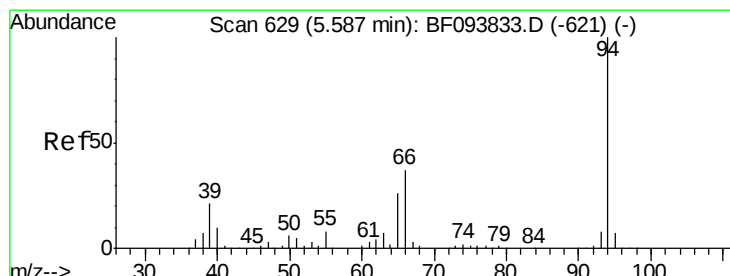
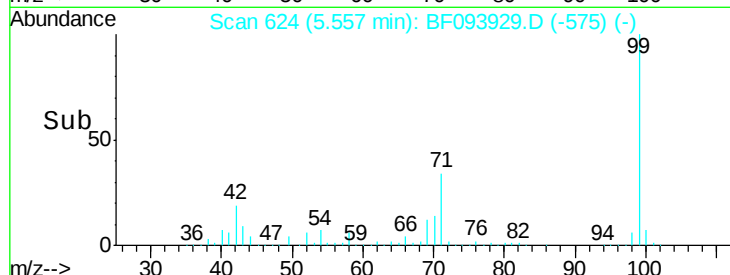
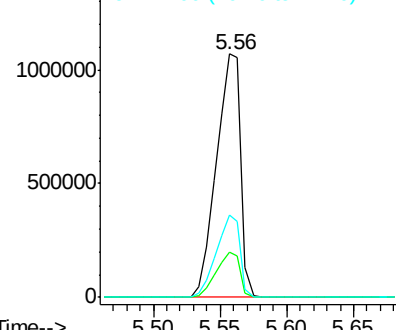
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 4.40 ng

RT: 5.57 min Scan# 626

Delta R.T. -0.02 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

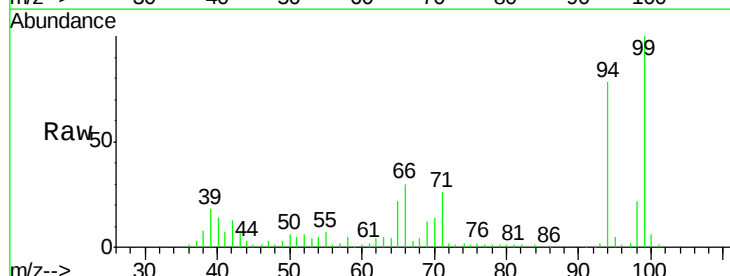
Tgt Ion: 94 Resp: 62936

Ion Ratio Lower Upper

94 100

65 28.1 9.9 49.9

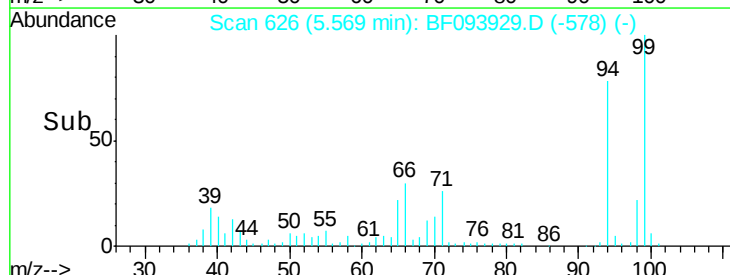
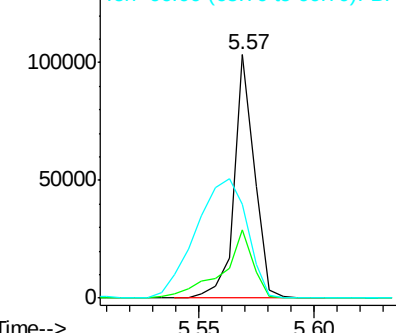
66 38.7 23.1 63.1

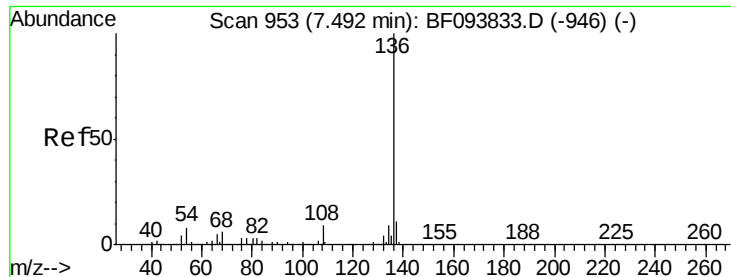


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.46 min Scan# 948

Delta R.T. -0.03 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Instrument :

BNA_F

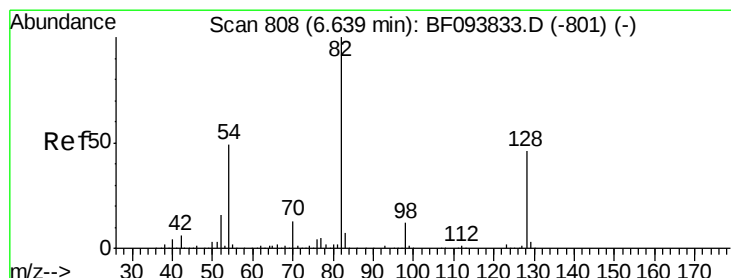
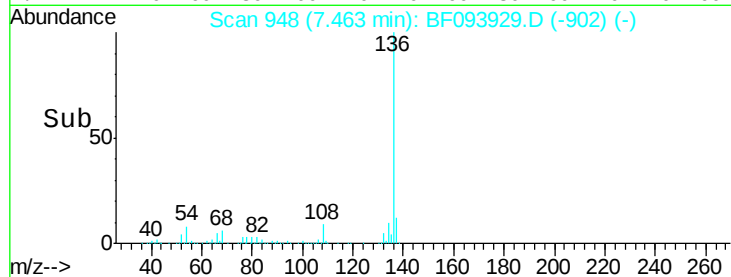
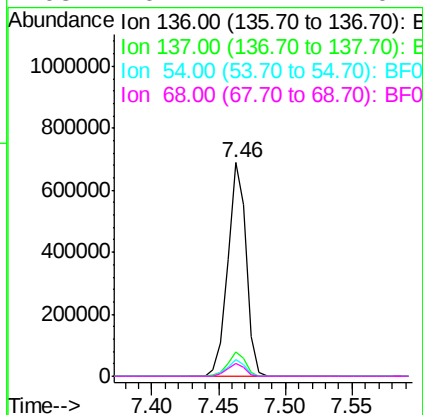
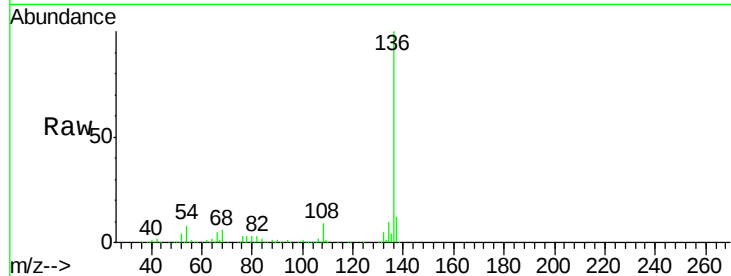
ClientSampled :

WC-COMP-11

Tot Ion	Ratio	Resp	Lower	Upper
136	100	670413		
137	11.6	8.5	12.7	
54	8.0	4.9	7.3	
68	6.2	4.1	6.1	

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#23

Nitrobenzene-d5

Concen: 71.14 ng

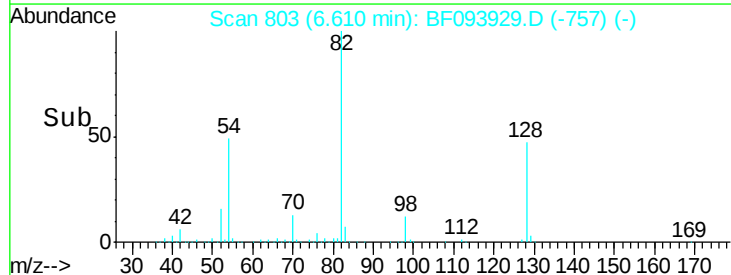
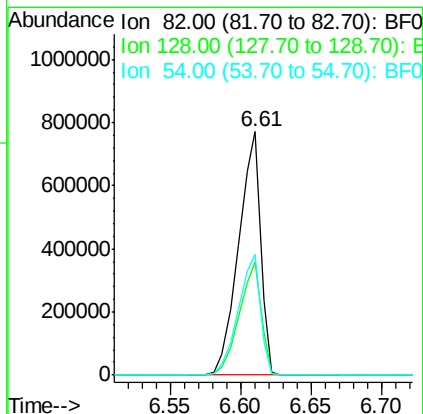
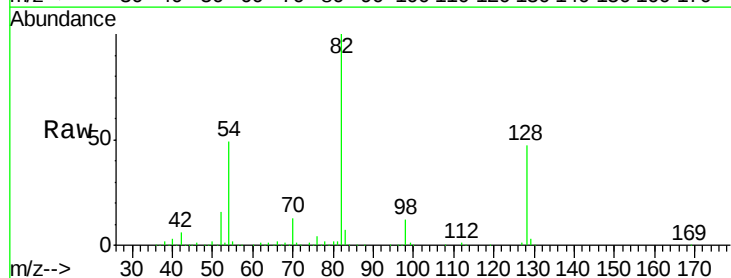
RT: 6.61 min Scan# 803

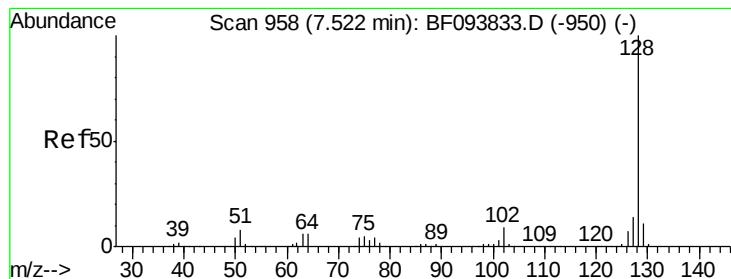
Delta R.T. -0.03 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	835674		
128	46.6	34.0	51.0	
54	49.4	42.2	63.2	





#31

Naphthalene

Concen: 2.68 ng

RT: 7.49 min Scan# 952

Delta R.T. -0.04 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Instrument :

BNA_F

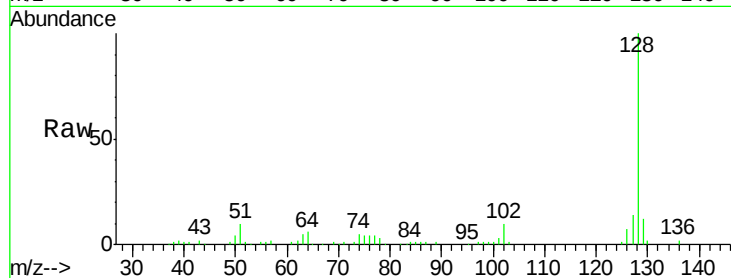
ClientSampleId :

WC-COMP-11

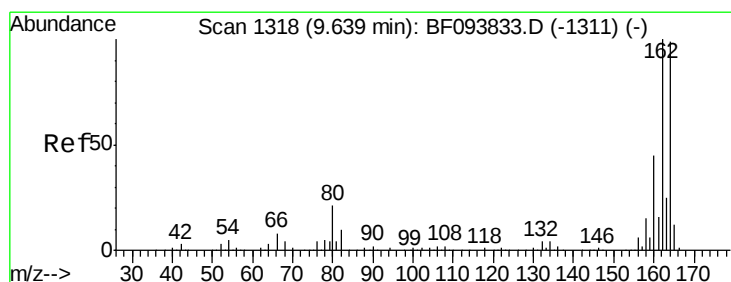
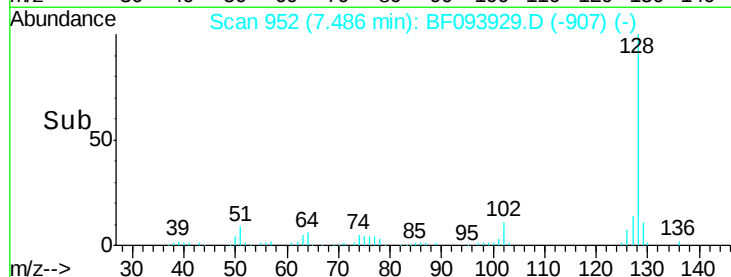
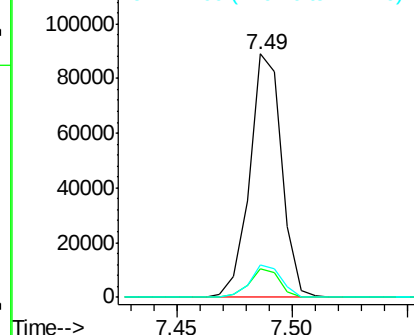
Tot Ion:	128	Resp:	86301
Ion Ratio	Lower	Upper	
128	100		
129	11.8	9.0	13.6
127	13.5	10.8	16.2

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



#38

Acenaphthene-d10

Concen: 20.00 ng

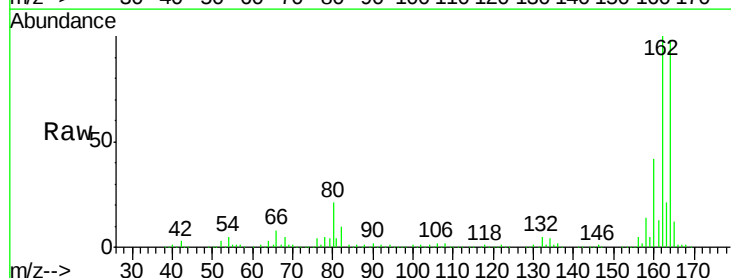
RT: 9.60 min Scan# 1312

Delta R.T. -0.04 min

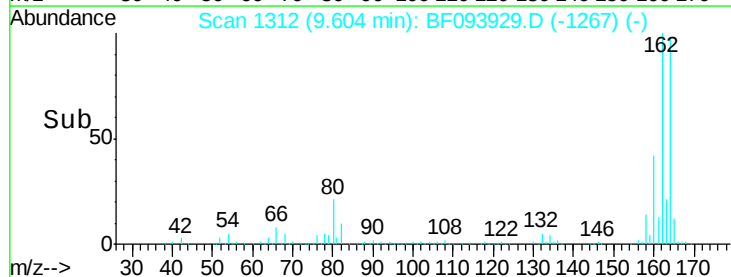
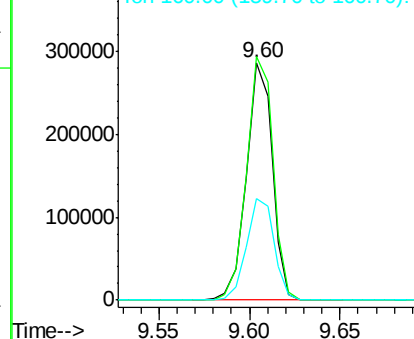
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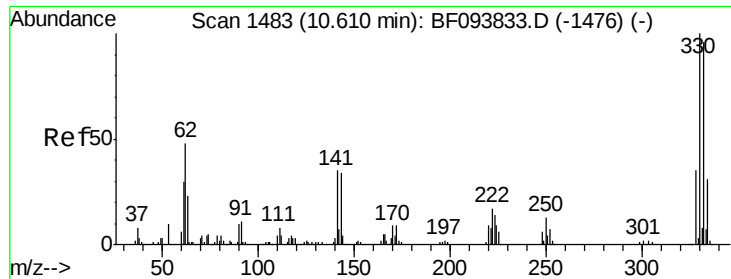
Acq: 25 Mar 2017 1:41

Tgt Ion:	164	Resp:	284735
Ion Ratio	Lower	Upper	
164	100		
162	102.5	82.6	123.8
160	43.0	36.2	54.2



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





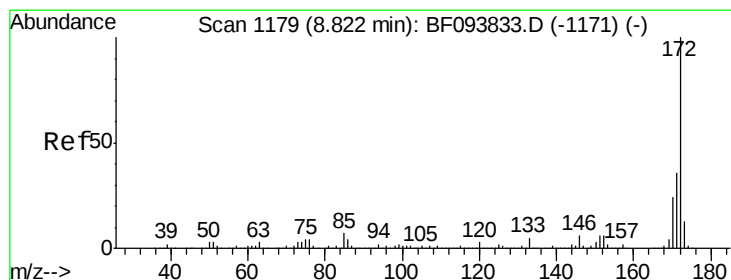
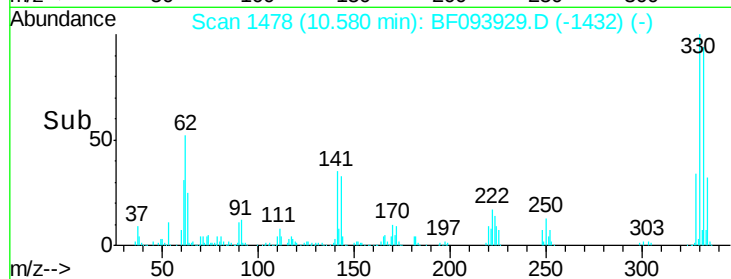
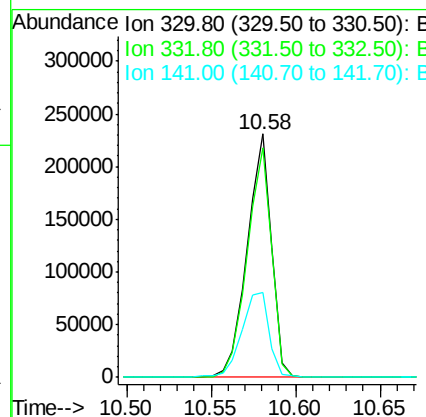
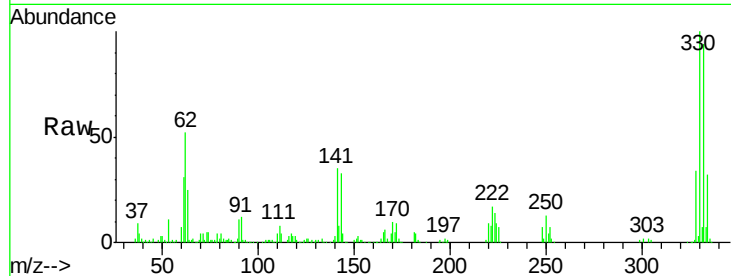
#41
 2,4,6-Tribromophenol
 Concen: 102.68 ng
 RT: 10.58 min Scan# 1478
 Delta R.T. -0.03 min
 Lab File: BF093929.D
 Acq: 25 Mar 2017 1:41

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-11

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.6	115.0
141	39.5	31.4	47.2

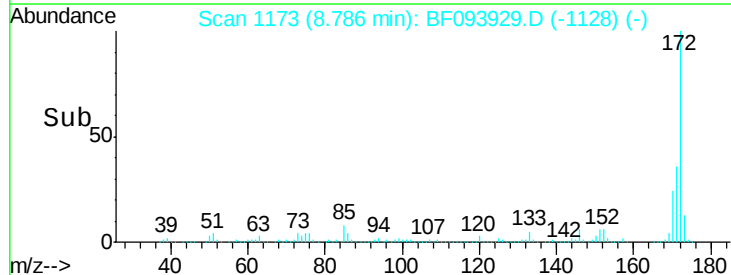
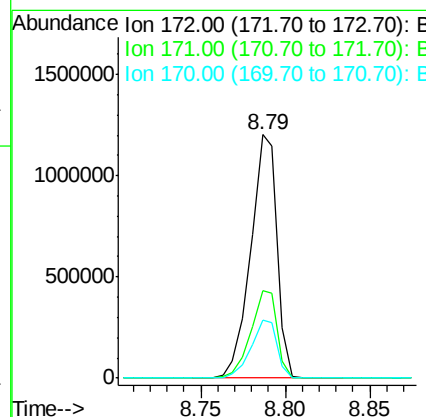
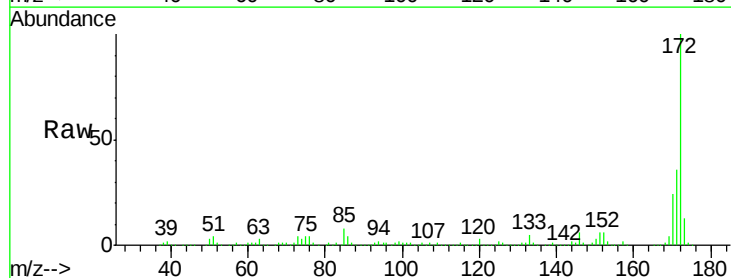
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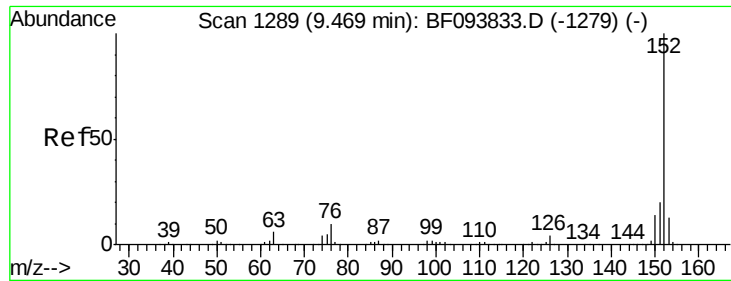
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#44
 2-Fluorobiphenyl
 Concen: 70.44 ng
 RT: 8.79 min Scan# 1173
 Delta R.T. -0.04 min
 Lab File: BF093929.D
 Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.6	44.4
170	23.7	19.8	29.8





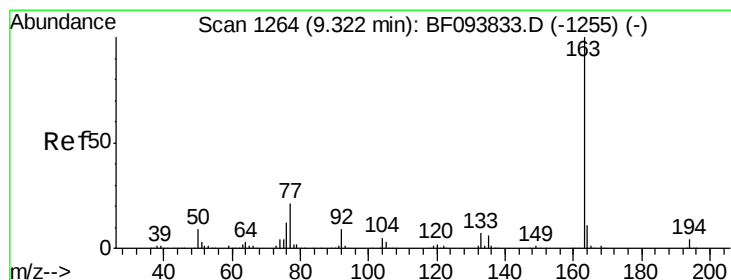
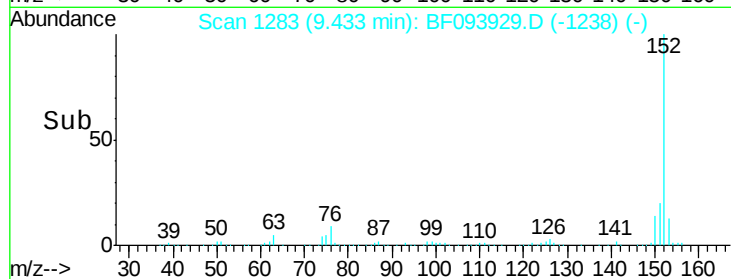
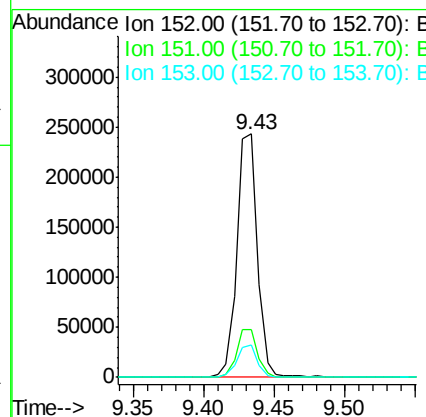
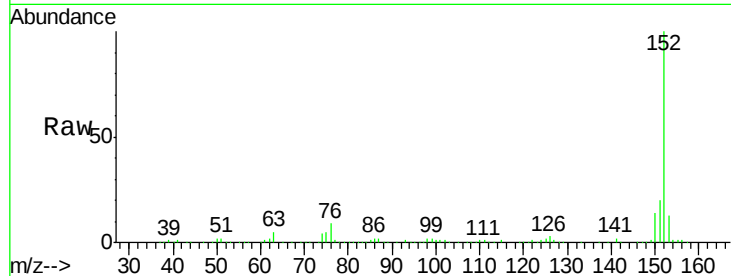
#48
Acenaphthylene
Concen: 8.24 ng
RT: 9.43 min Scan# 1283
Delta R.T. -0.04 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Instrument :
BNA_F
ClientSampleId :
WC-COMP-11

Tot Ion	Ratio	Resp	Lower	Upper
152	100	246199		
151	19.9		16.8	25.2
153	13.3		10.8	16.2

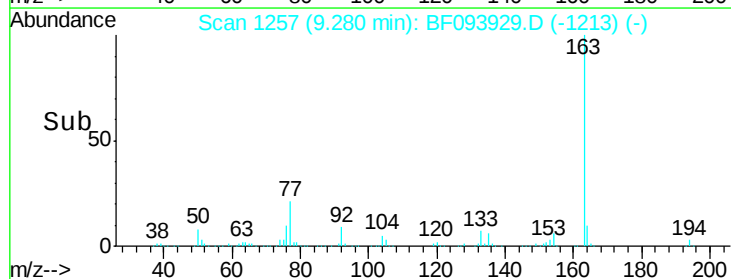
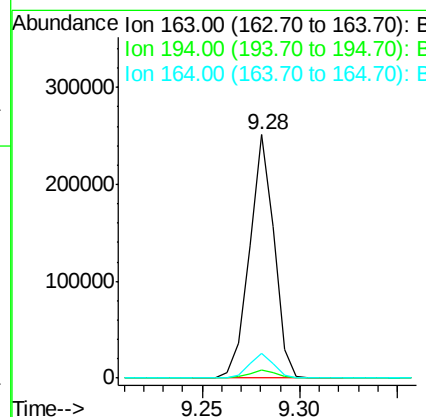
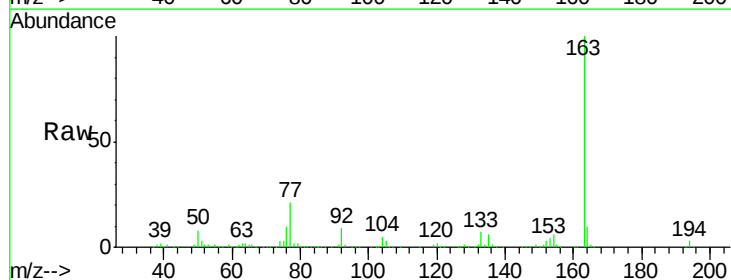
Manual Integrations
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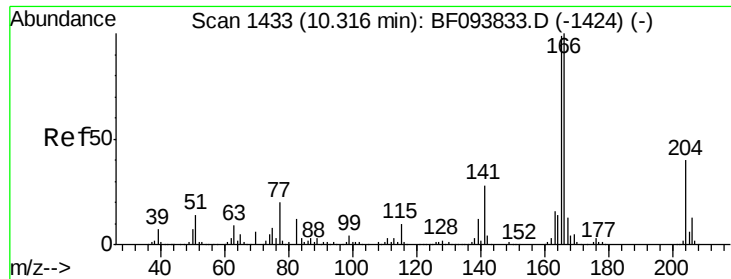
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#49
Dimethylphthalate
Concen: 10.79 ng
RT: 9.28 min Scan# 1257
Delta R.T. -0.04 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	218300		
194	3.4		2.6	4.0
164	10.1		8.4	12.6





#57

Fluorene

Concen: 3.26 ng

RT: 10.28 min Scan# 1427

Delta R.T. -0.04 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Instrument :

BNA_F

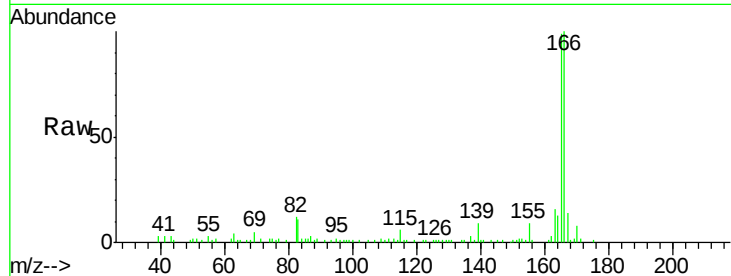
ClientSampleId :

WC-COMP-11

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		64230		
165	99.3	78.8	118.2		
167	14.1	10.6	16.0		

Manual Integrations
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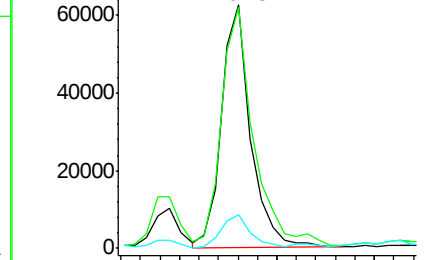
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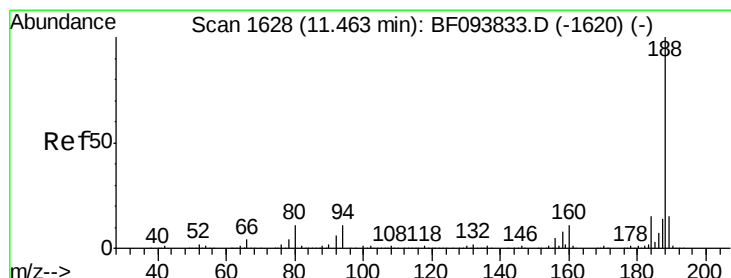
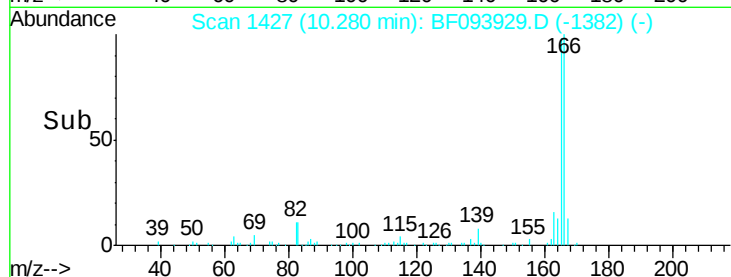
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.43 min Scan# 1623

Delta R.T. -0.03 min

Lab File: BF093929.D

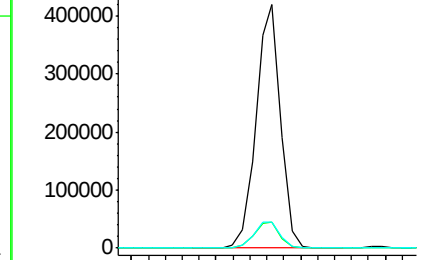
Acq: 25 Mar 2017 1:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		423547		
94	10.7	9.4	14.2		
80	10.7	10.2	15.2		

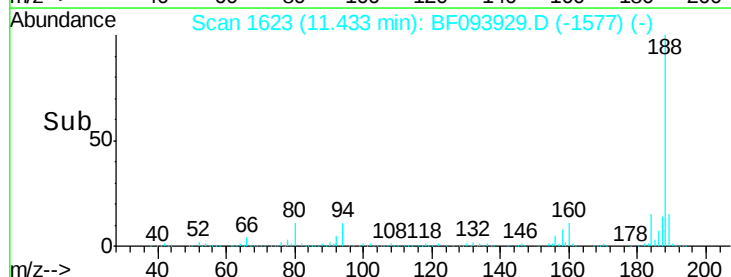
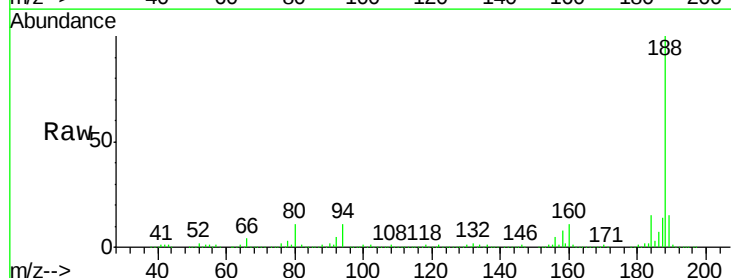
Abundance Ion 188.00 (187.70 to 188.70): E

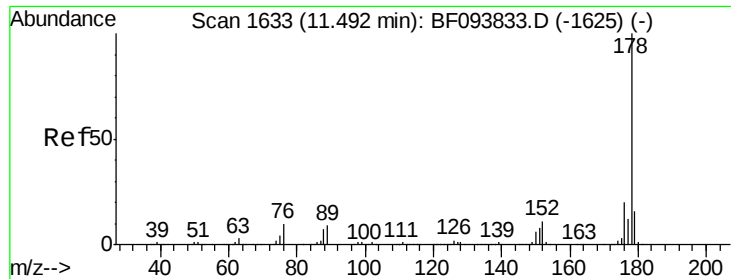
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->





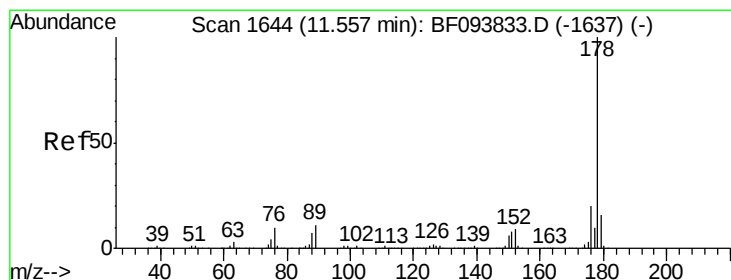
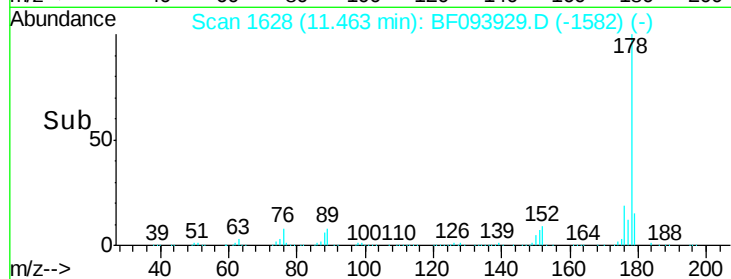
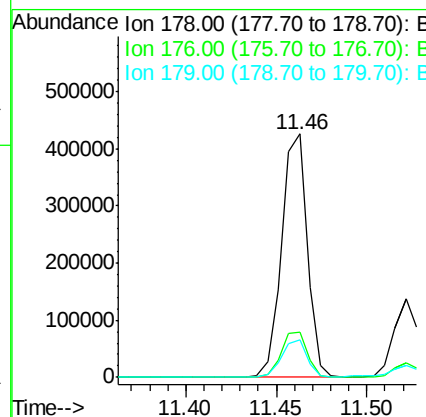
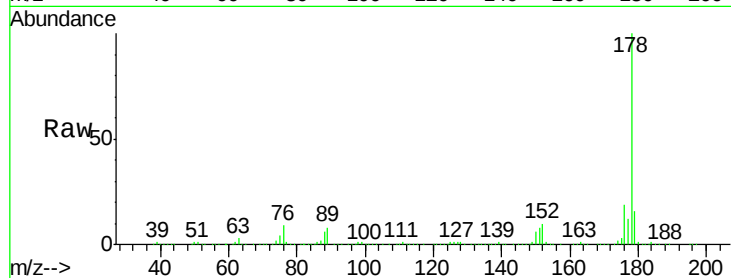
#70
Phenanthrene
Concen: 17.81 ng
RT: 11.46 min Scan# 1628
Delta R.T. -0.03 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Instrument :
BNA_F
ClientSampleId :
WC-COMP-11

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	16.2	24.4
179	15.5	12.6	19.0

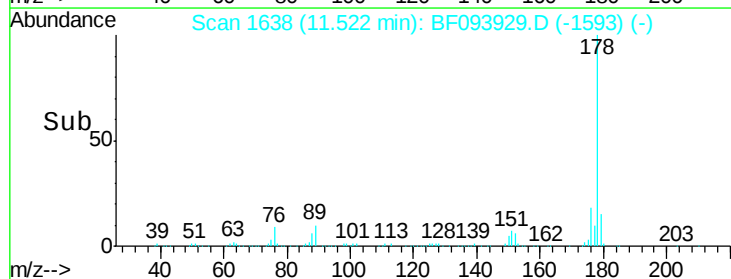
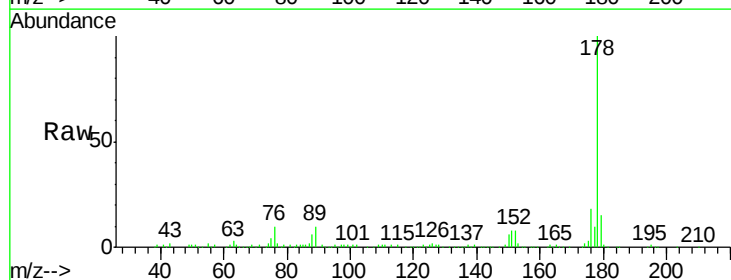
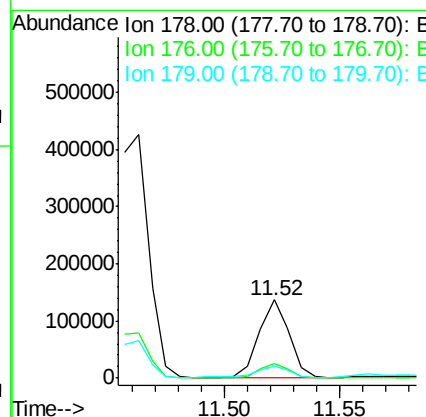
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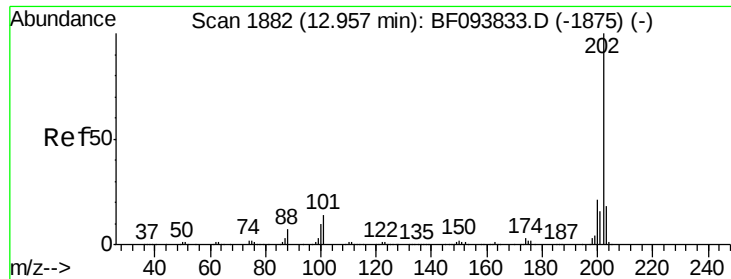
mohammad
3/27/2017 12:56:49 PM



#71
Anthracene
Concen: 5.14 ng
RT: 11.52 min Scan# 1638
Delta R.T. -0.04 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	15.1	12.7	19.1





#74

Fluoranthene

Concen: 32.00 ng

RT: 12.93 min Scan# 1877

Delta R.T. -0.03 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Instrument :

BNA_F

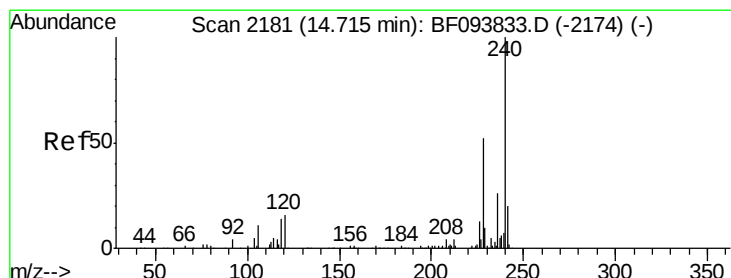
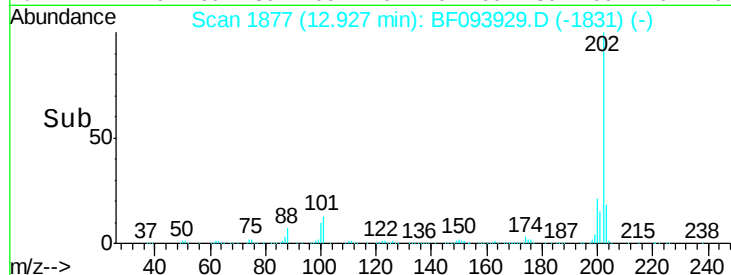
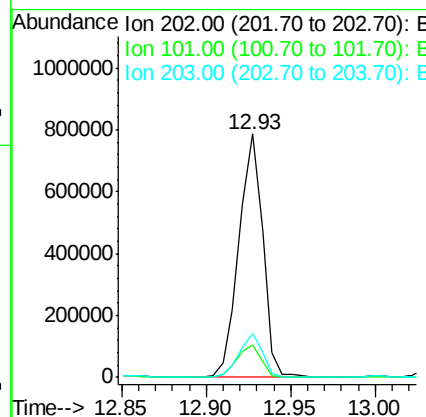
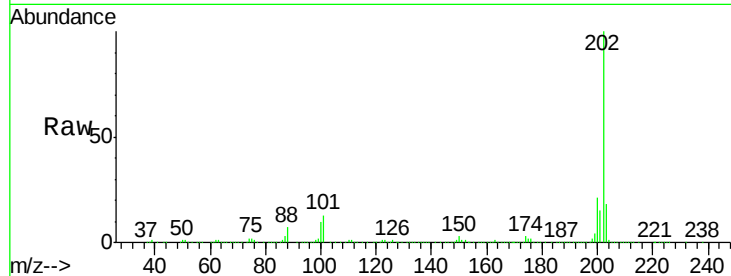
ClientSampleId :

WC-COMP-11

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		772007		
101	13.2	0.0	33.2		
203	17.9	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.00 ng

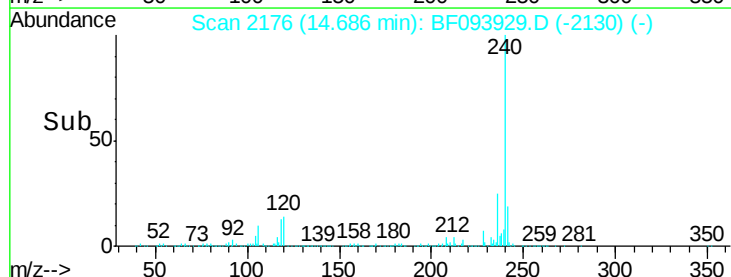
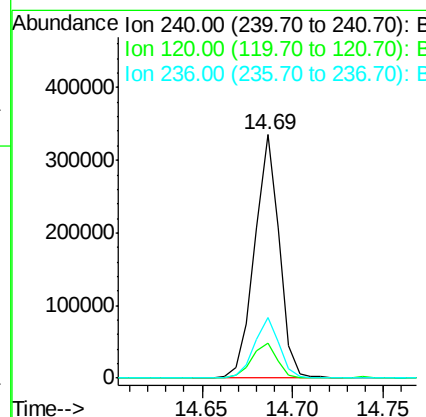
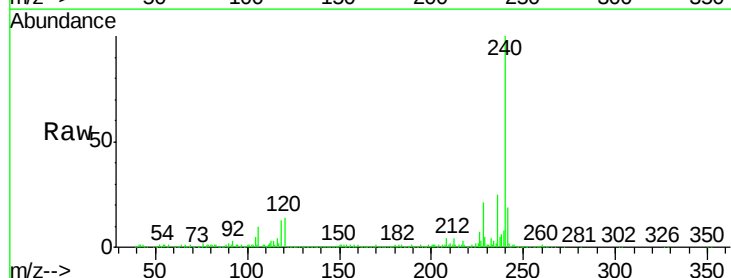
RT: 14.69 min Scan# 2176

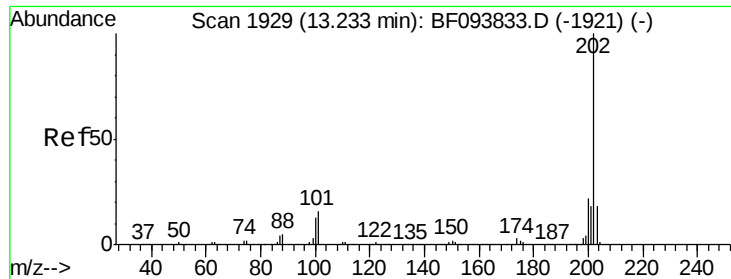
Delta R.T. -0.03 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		315280		
120	14.4	5.8	8.8#		
236	24.9	20.5	30.7		





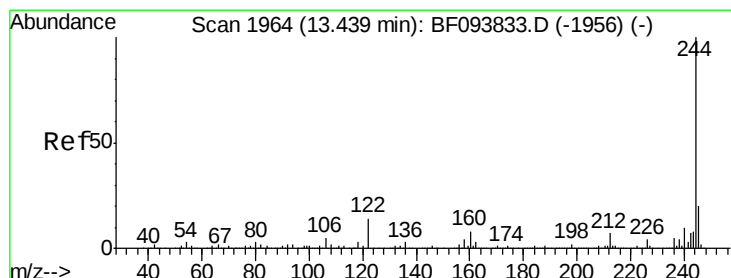
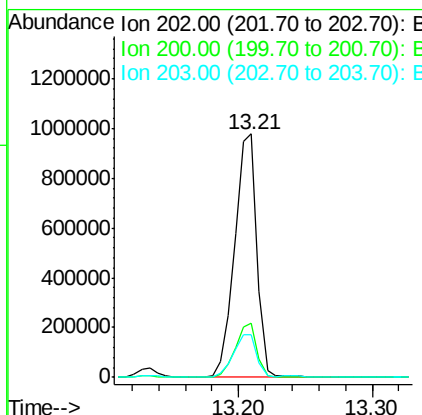
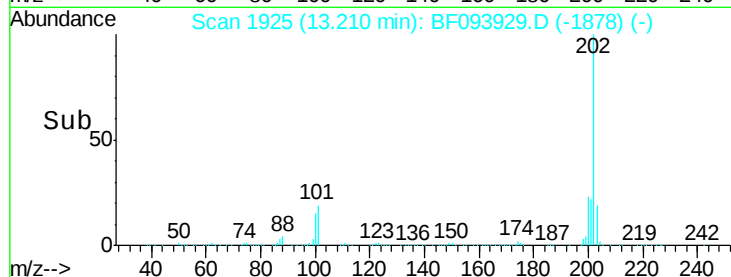
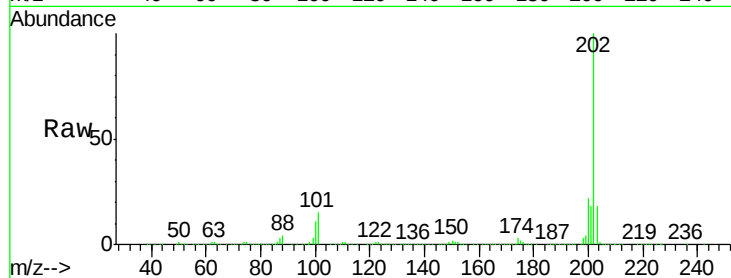
#77
Pvrene
Concen: 49.55 ng
RT: 13.21 min Scan# 1925
Delta R.T. -0.02 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Instrument :
BNA_F
ClientSampleId :
WC-COMP-11

Tot Ion:202 Resp: 1133726
Ion Ratio Lower Upper
202 100
200 22.1 17.6 26.4
203 17.7 14.4 21.6

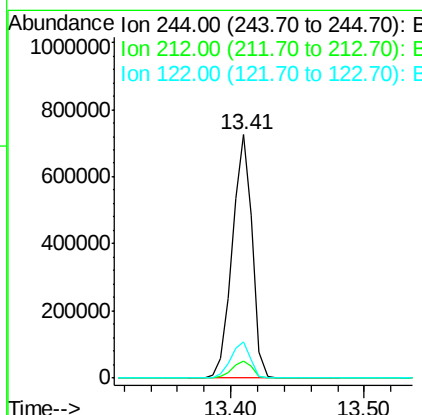
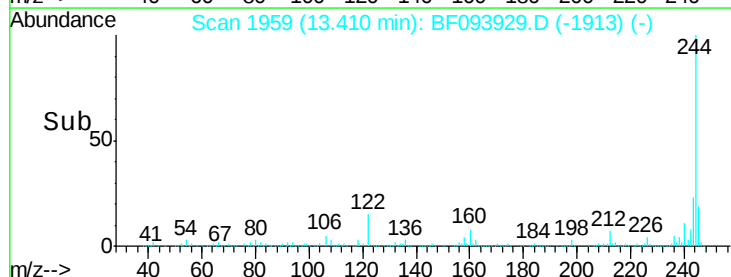
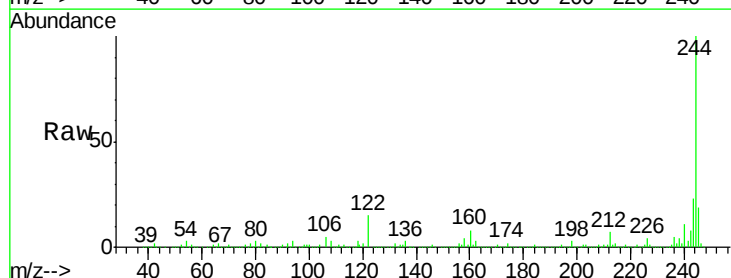
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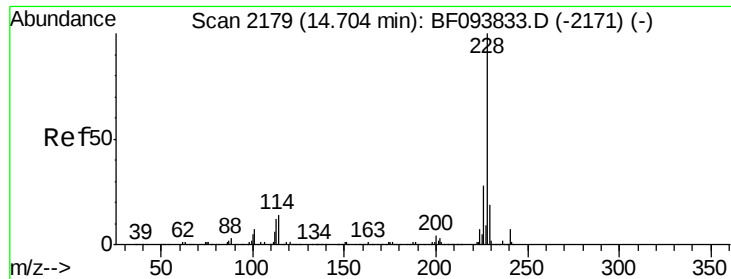
mohammad
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#78
Terphenyl-d14
Concen: 53.85 ng
RT: 13.41 min Scan# 1959
Delta R.T. -0.03 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Tgt Ion:244 Resp: 757375
Ion Ratio Lower Upper
244 100
212 7.2 6.0 9.0
122 14.7 10.3 15.5





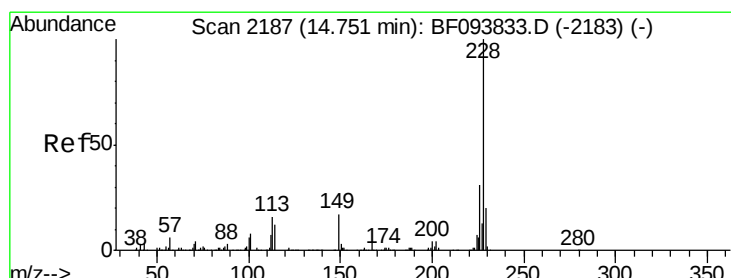
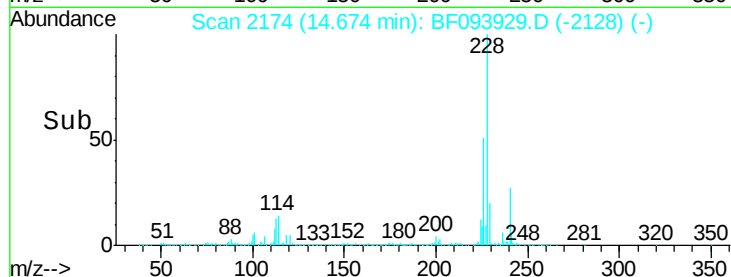
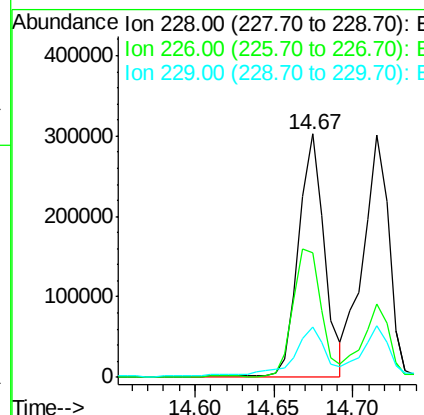
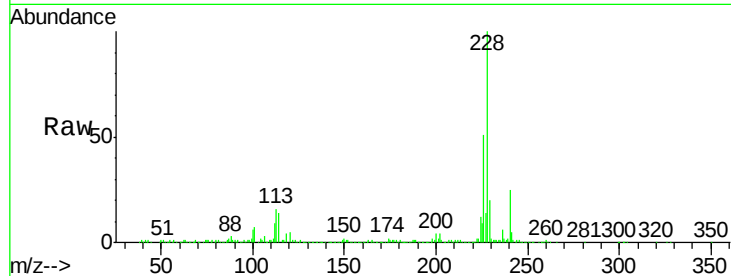
#80
Benzo(a)anthracene
Concen: 18.97 ng m
RT: 14.67 min Scan# 2174
Delta R.T. -0.03 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Instrument :
BNA_F
ClientSampleId :
WC-COMP-11

Tot Ion	Ratio	Lower	Upper
228	100		
226	51.2	22.6	33.8
229	20.5	16.3	24.5

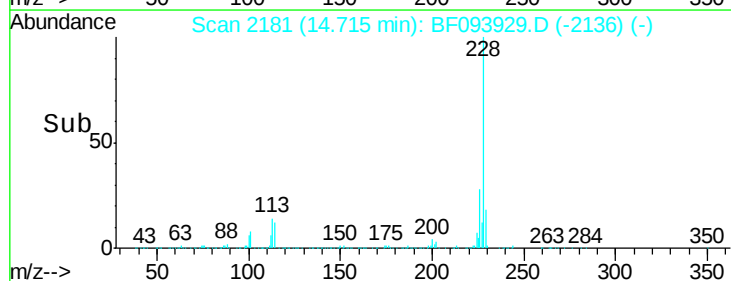
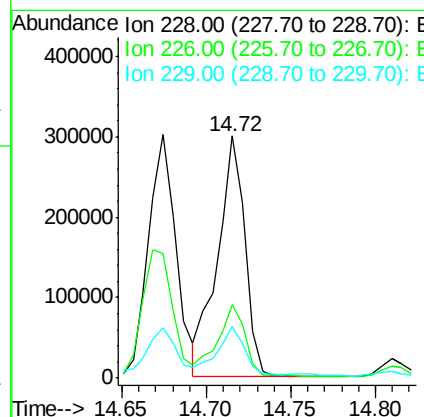
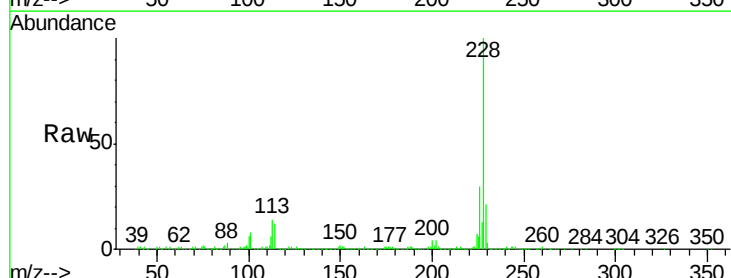
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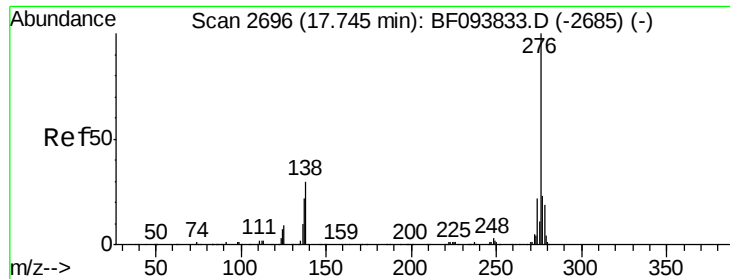
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#82
Chrysene
Concen: 20.07 ng
RT: 14.72 min Scan# 2181
Delta R.T. -0.04 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.9	37.3
229	21.2	15.8	23.6





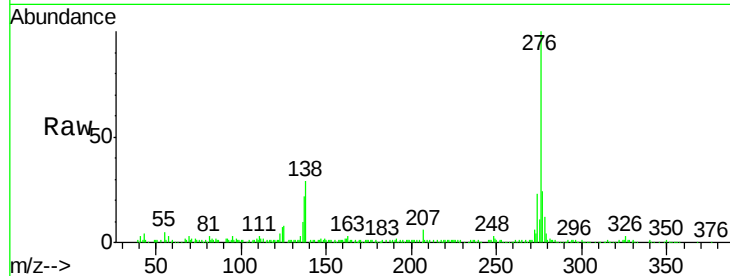
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.55 ng
RT: 17.70 min Scan# 2689
Delta R.T. -0.04 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Instrument :
BNA_F
ClientSampleId :
WC-COMP-11

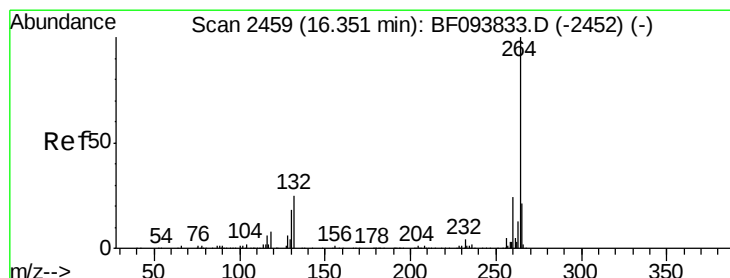
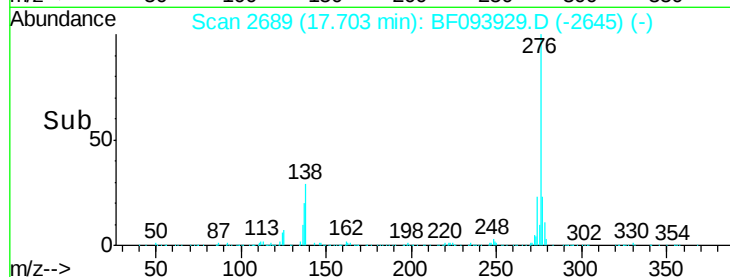
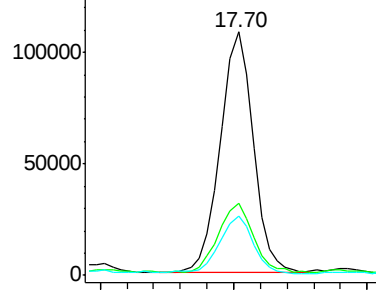
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.8	27.8	41.6
277	25.2	20.2	30.4

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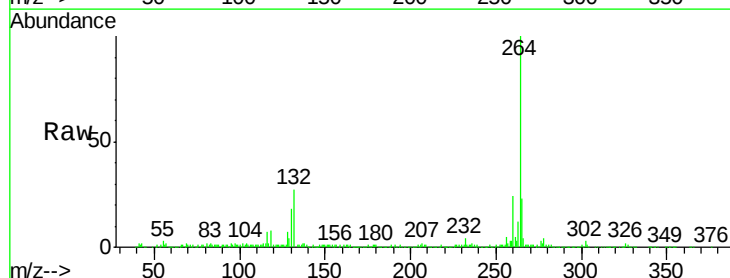


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

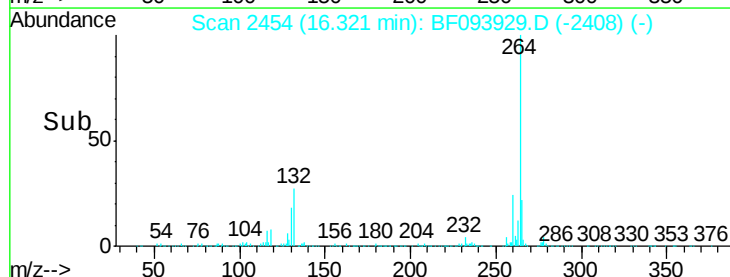
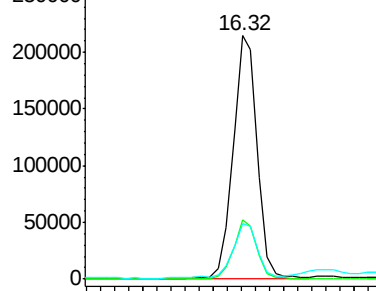


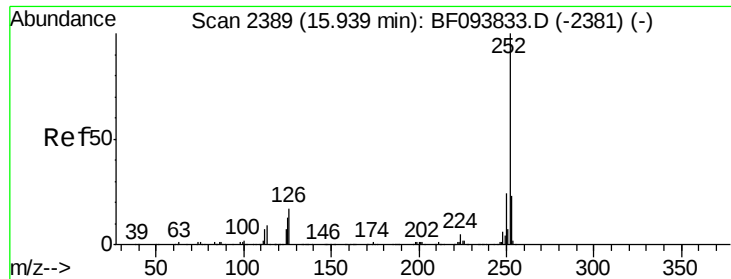
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.32 min Scan# 2454
Delta R.T. -0.03 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.8	17.2	25.8



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





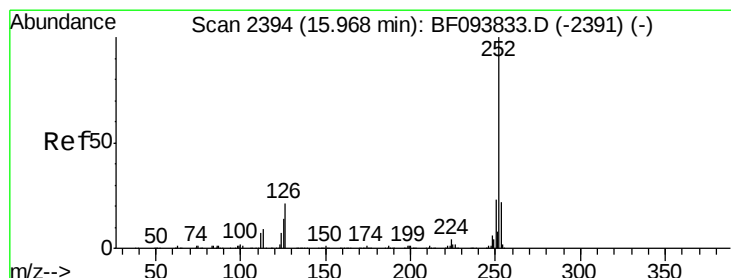
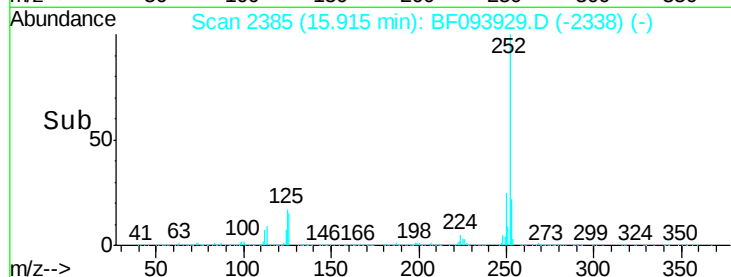
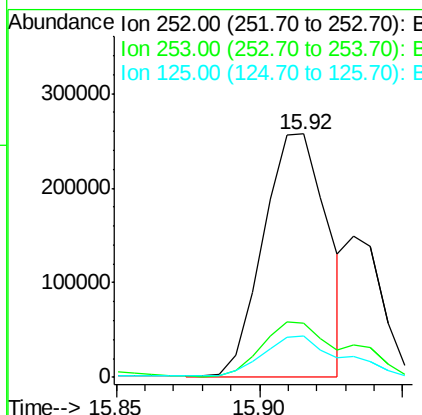
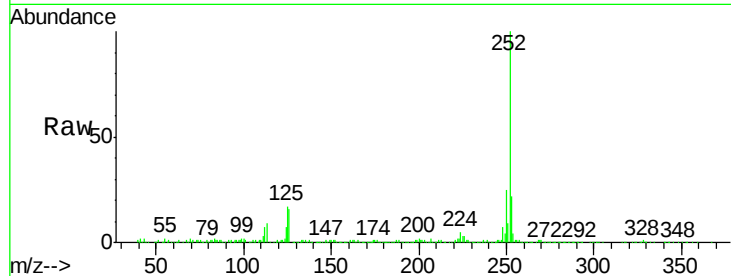
#87
Benzo(b)fluoranthene
Concen: 25.69 ng m
RT: 15.92 min Scan# 2385
Delta R.T. -0.02 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Instrument :
BNA_F
ClientSampleId :
WC-COMP-11

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.1	27.1
125	17.1	9.8	14.8

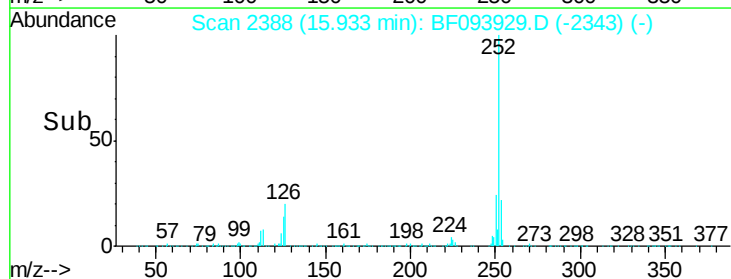
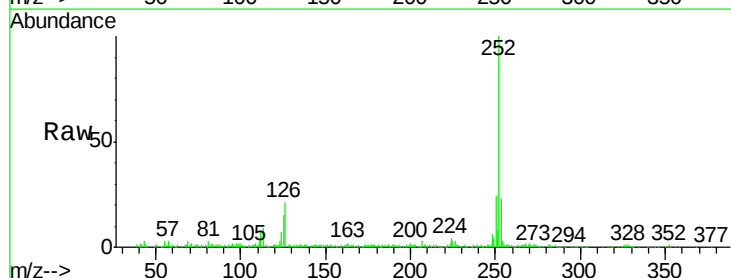
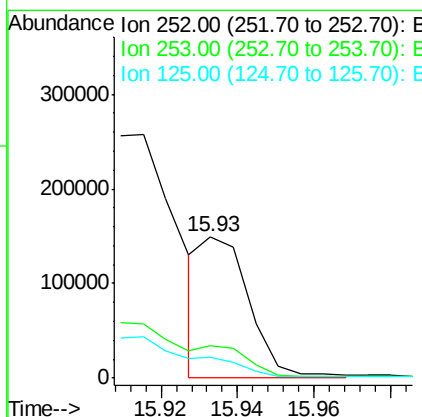
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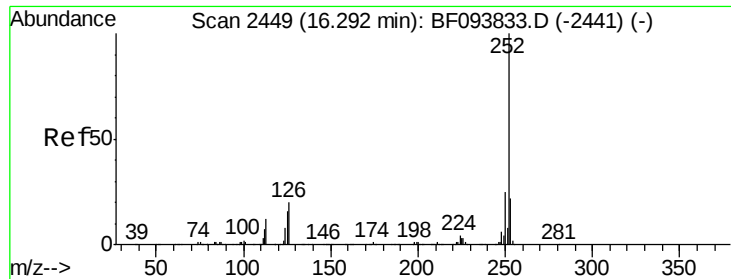
mohammad
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#88
Benzo(k)fluoranthene
Concen: 8.52 ng m
RT: 15.93 min Scan# 2388
Delta R.T. -0.04 min
Lab File: BF093929.D
Acq: 25 Mar 2017 1:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	15.2	13.1	19.7





#89

Benzo(a)pyrene

Concen: 22.87 ng

RT: 16.26 min Scan# 2444

Delta R.T. -0.03 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Instrument :

BNA_F

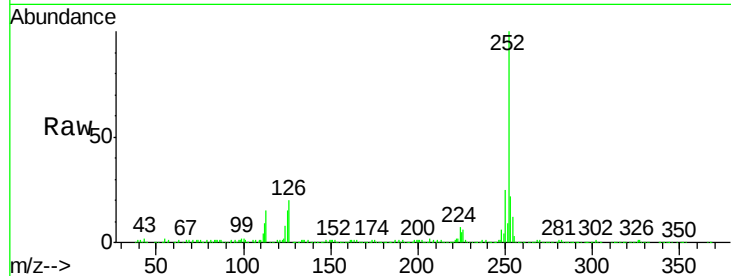
ClientSampleId :

WC-COMP-11

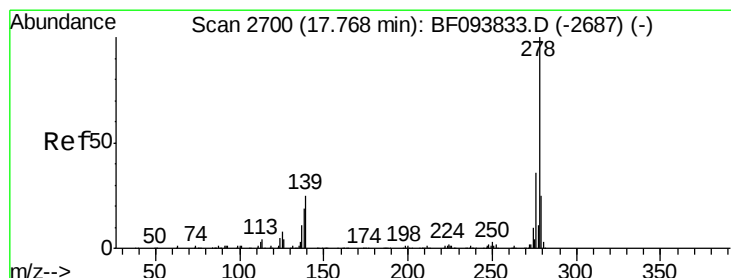
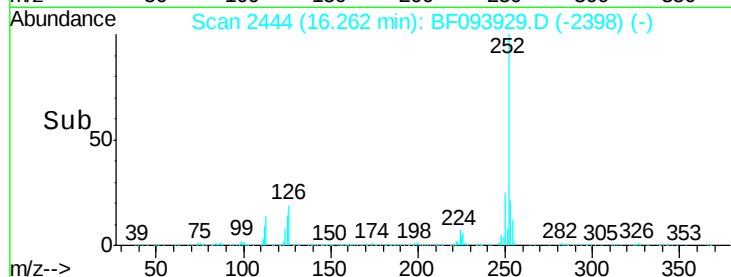
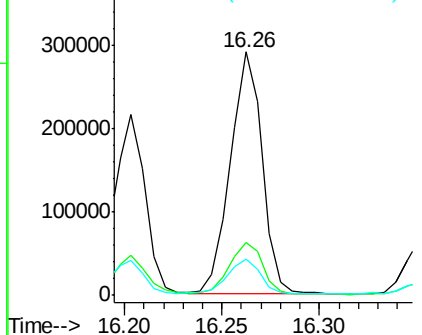
Tot Ion:	252	Resp:	330305
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.5	26.3
125	14.7	11.0	16.4

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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



#90

Dibenzo(a,h)anthracene

Concen: 2.99 ng

RT: 17.72 min Scan# 2691

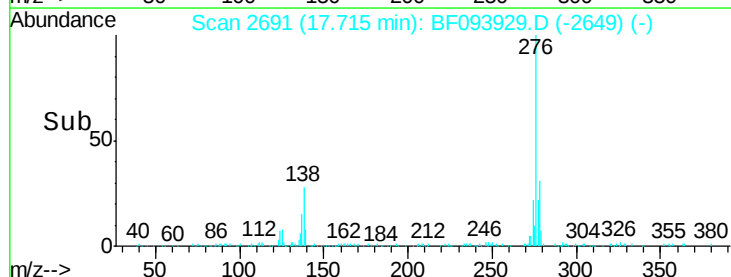
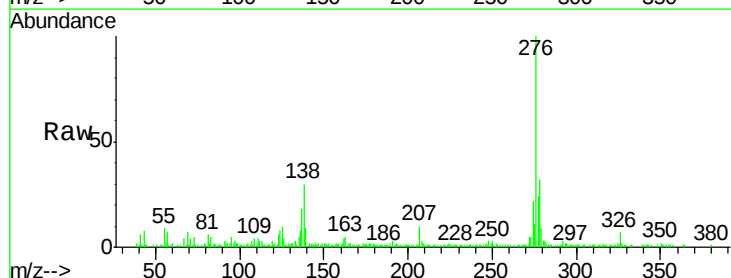
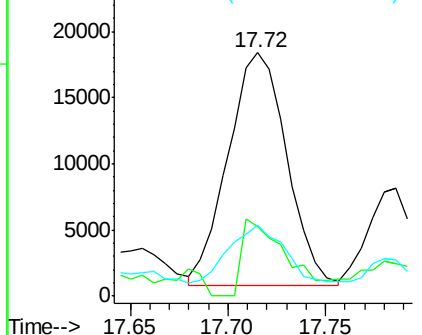
Delta R.T. -0.05 min

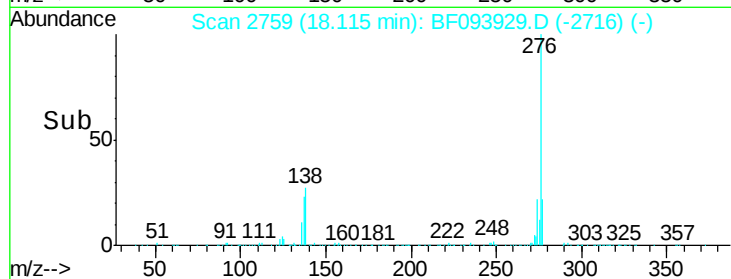
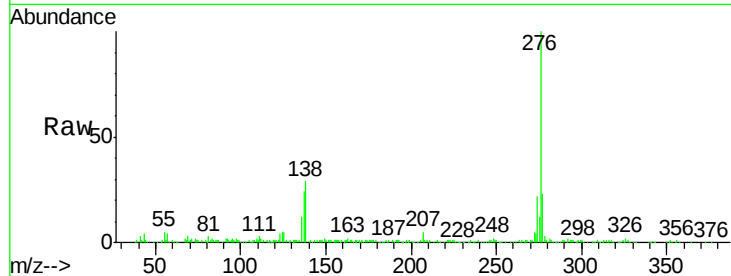
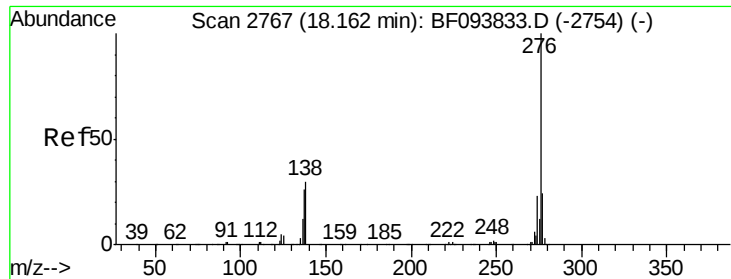
Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Tgt Ion:	278	Resp:	36568
Ion Ratio	Lower	Upper	
278	100		
139	28.4	16.6	24.8#
279	29.2	19.3	28.9#

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(a,h,i)perylene

Concen: 17.38 ng

RT: 18.12 min Scan# 2759

Delta R.T. -0.05 min

Lab File: BF093929.D

Acq: 25 Mar 2017 1:41

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100		214227		
277	23.1	18.6	28.0		
138	29.3	25.4	38.0		

Instrument :

BNA_F

ClientSampled :

WC-COMP-11

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