

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
 Data File : BF090896.D
 Acq On : 28 Oct 2016 4:46
 Operator : UM/SJ
 Sample : H5411-07 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-03-3.5-4.0

Manual Integrations
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Quant Time: Oct 28 05:52:24 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 27 18:46:43 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	59536m	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	216672	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	94116	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	141928	20.00	ng	-0.01
75) Chrysene-d12	13.94	240	176329	20.00	ng	-0.01
86) Perylene-d12	15.35	264	128905	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	287110	84.32	ng	0.00
7) Phenol-d6	6.41	99	414689	90.27	ng	-0.01
23) Nitrobenzene-d5	7.33	82	237426	71.73	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	37110	38.37	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	408170	76.15	ng	-0.01
78) Terphenyl-d14	12.89	244	333962	47.72	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.09	128	141942	14.01	ng	99
37) 2-Methylnaphthalene	8.77	142	43356	6.63	ng	# 90
49) Dimethylphthalate	9.54	163	152617	24.27	ng	# 97
51) Acenaphthene	9.85	154	50968	9.48	ng	88
54) Dibenzofuran	10.02	168	40072	5.77	ng	# 86
57) Fluorene	10.36	166	49825	8.77	ng	94
70) Phenanthrene	11.32	178	364147	50.38	ng	97
71) Anthracene	11.37	178	99635	13.09	ng	97
72) Carbazole	11.53	167	51019	7.59	ng	# 91
74) Fluoranthene	12.51	202	473164	59.78	ng	91
77) Pyrene	12.74	202	373444	33.47	ng	97
80) Benzo(a)anthracene	13.93	228	208492m	22.28	ng	
82) Chrysene	13.96	228	189701m	20.04	ng	
83) Bis(2-ethylhexyl)phthalate	13.93	149	15240	2.31	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.71	276	55163	6.58	ng	# 89
87) Benzo(b)fluoranthene	14.96	252	194730m	22.47	ng	
88) Benzo(k)fluoranthene	14.97	252	50268m	7.34	ng	
89) Benzo(a)pyrene	15.29	252	113063m	15.18	ng	
90) Dibenzo(a,h)anthracene	16.72	278	12873	2.04	ng	# 82
91) Benzo(a,h,i)perylene	17.12	276	48264	8.13	ng	# 80

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

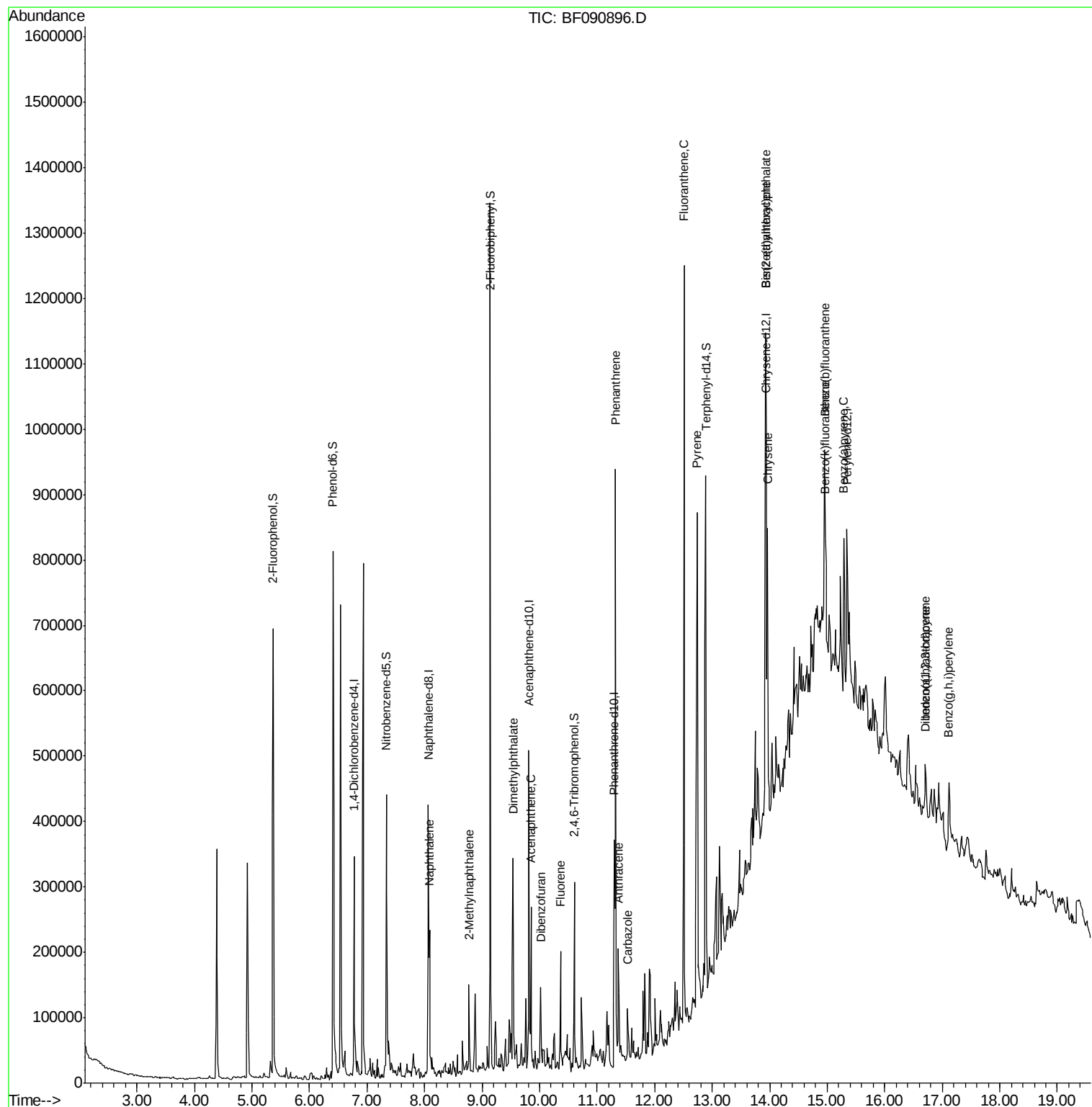
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
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ALS Vial : 29 Sample Multiplier: 1

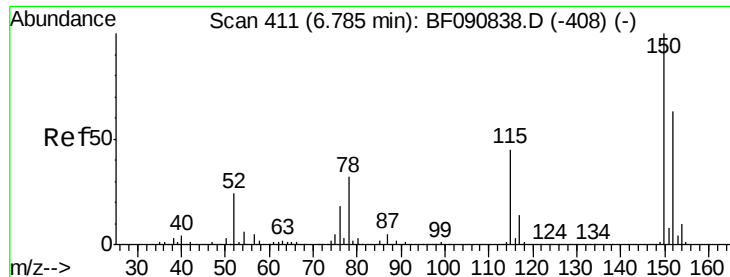
Instrument :
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SB-03-3.5-4.0

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Quant Time: Oct 28 05:52:24 2016
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QLast Update : Thu Oct 27 18:46:43 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng/mL

RT: 6.77 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SB-03-3.5-4.0

Tot Ion:152 Resp: 59536

Ion Ratio Lower Upper

152 100

150 159.2 124.7 187.1

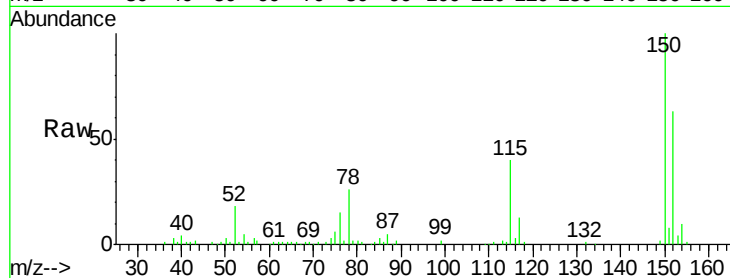
115 63.7 39.0 58.4#

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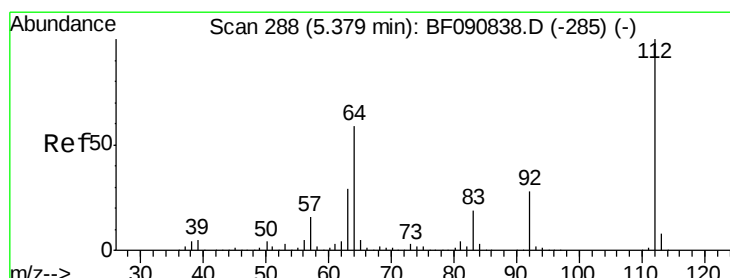
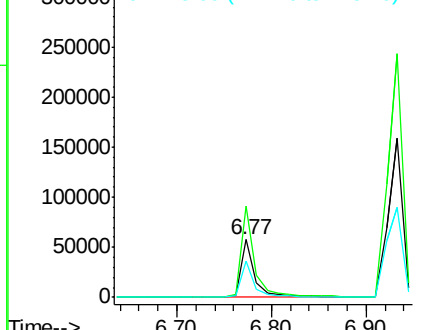
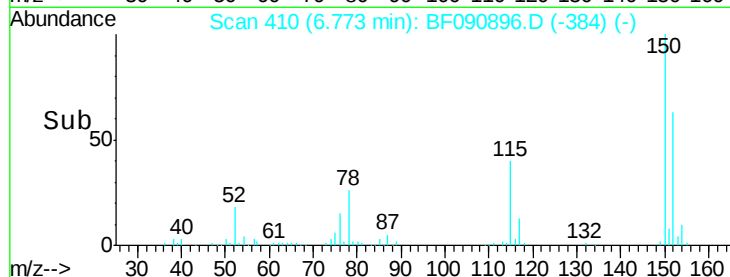
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 84.32 ng

RT: 5.37 min Scan# 287

Delta R.T. 0.00 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

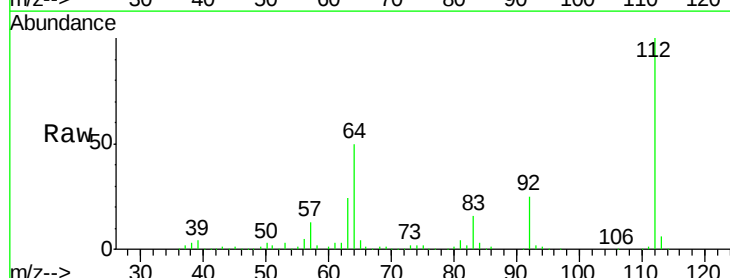
Tgt Ion:112 Resp: 287110

Ion Ratio Lower Upper

112 100

64 50.3 39.7 59.5

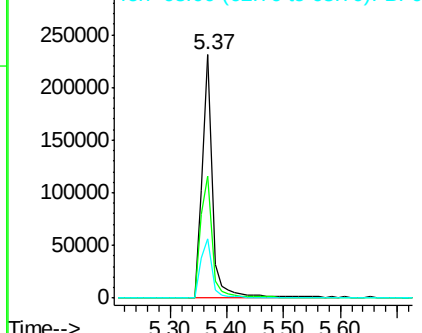
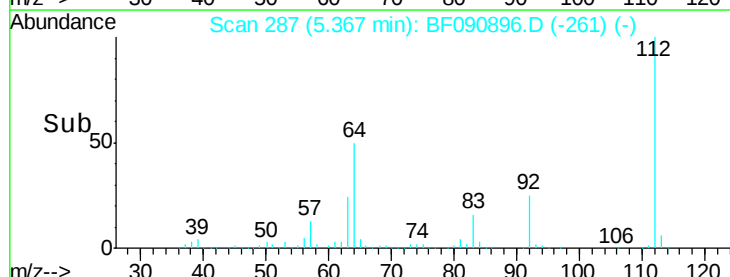
63 24.3 17.4 26.0

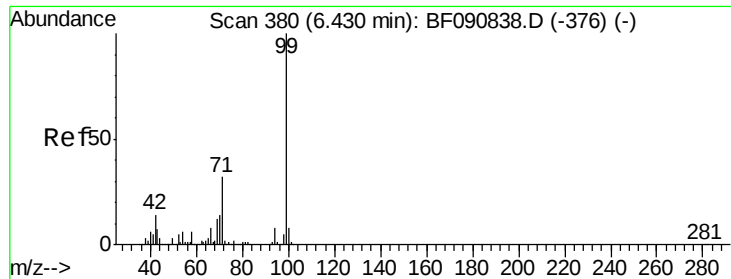


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 90.27 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Instrument :

BNA_F

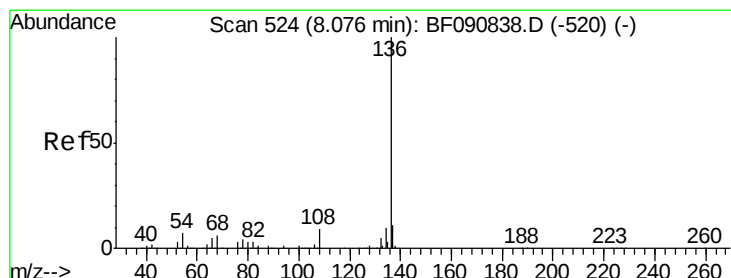
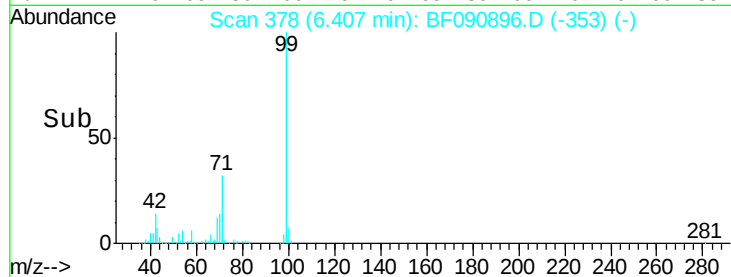
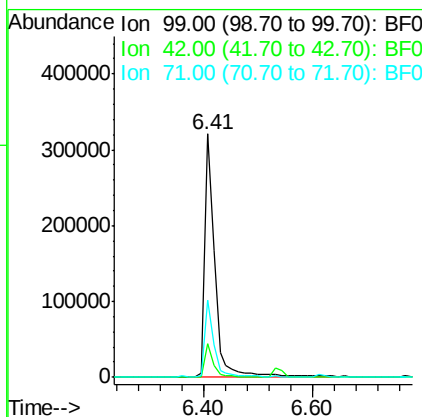
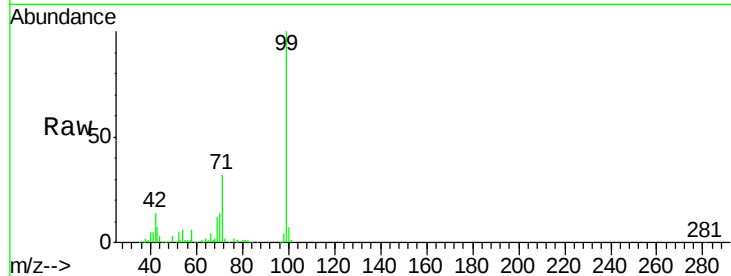
ClientSampleId :

SB-03-3.5-4.0

Tot Ion:	99	Resp:	414689
Ion	Ratio	Lower	Upper
99	100		
42	14.0	13.7	20.5
71	31.9	14.2	21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

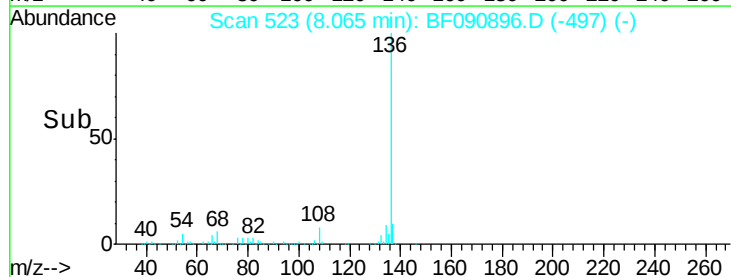
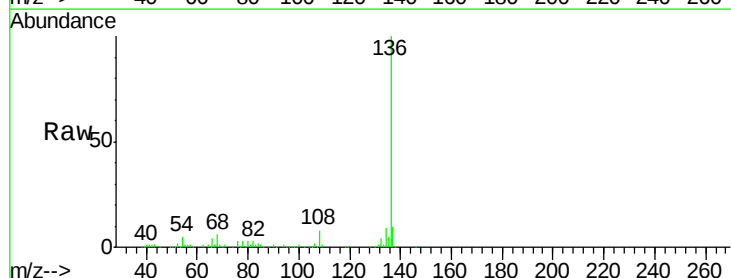
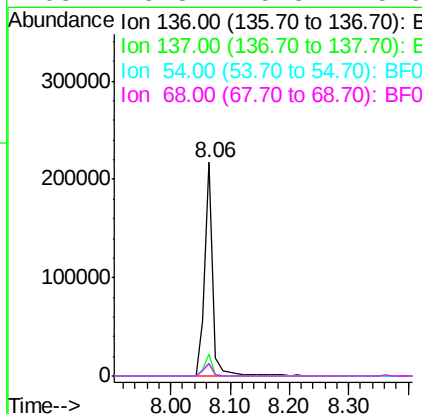
RT: 8.06 min Scan# 523

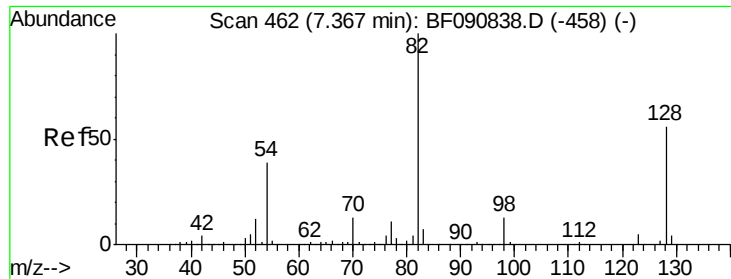
Delta R.T. 0.00 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Tgt Ion:	136	Resp:	216672
Ion	Ratio	Lower	Upper
136	100		
137	10.5	9.0	13.6
54	5.3	8.2	12.2#
68	5.8	5.8	8.6





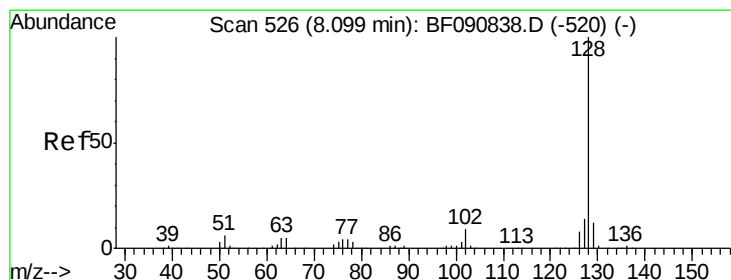
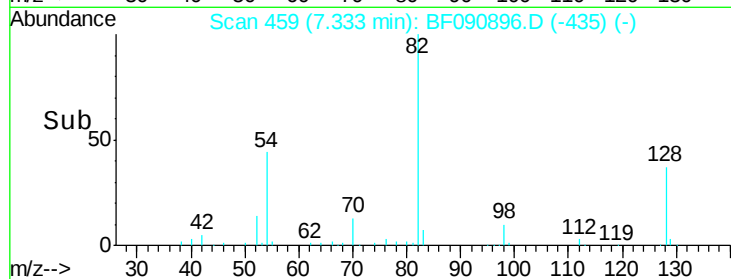
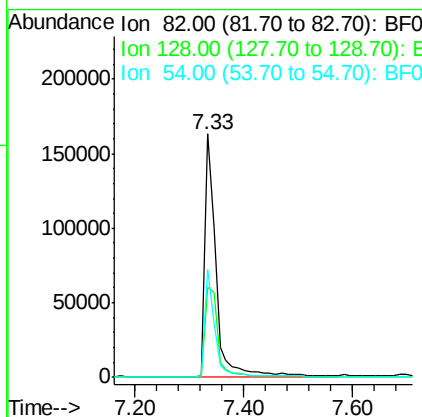
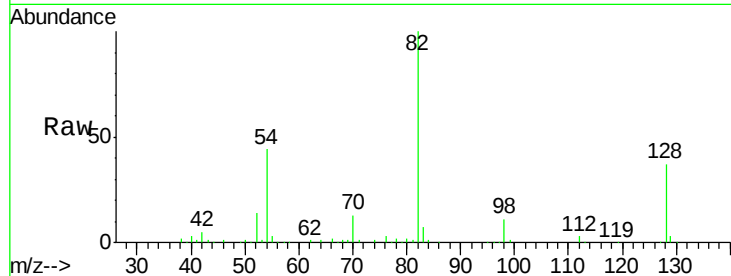
#23
Nitrobenzene-d5
Concen: 71.73 ng
RT: 7.33 min Scan# 459
Delta R.T. -0.02 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.2	51.0	76.6#
54	44.5	47.5	71.3#

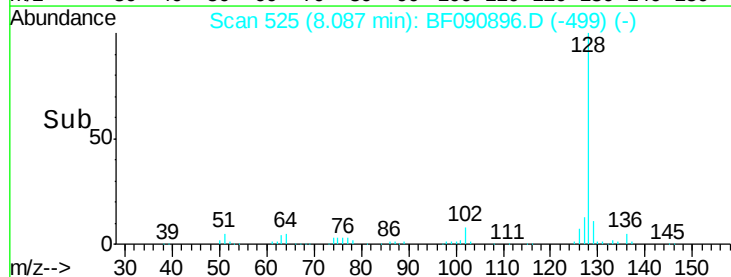
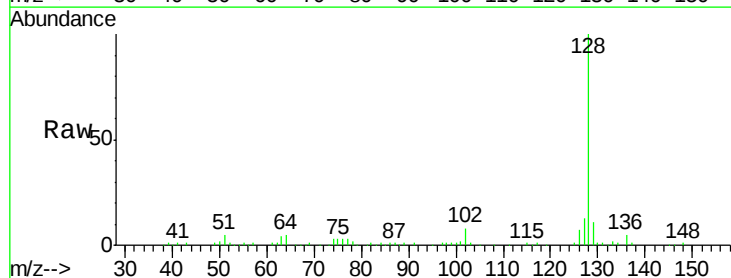
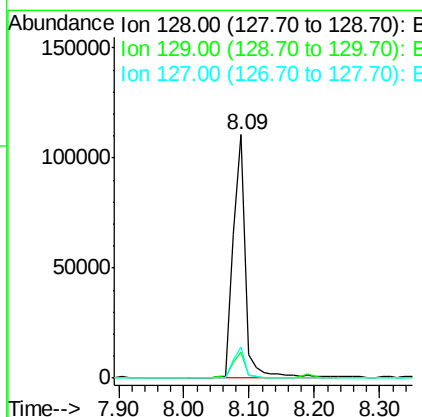
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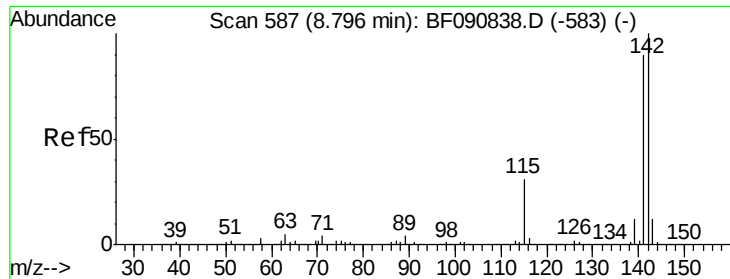
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#31
Naphthalene
Concen: 14.01 ng
RT: 8.09 min Scan# 525
Delta R.T. 0.00 min
Lab File: BF090896.D
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.4	12.6
127	12.9	9.9	14.9





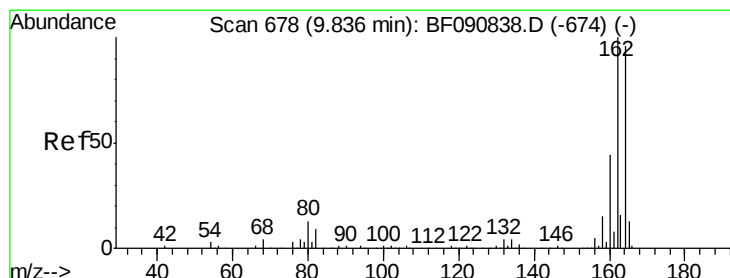
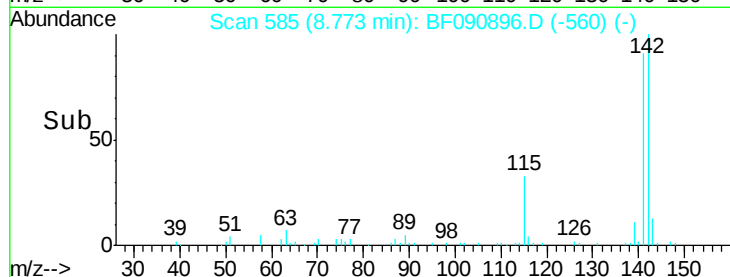
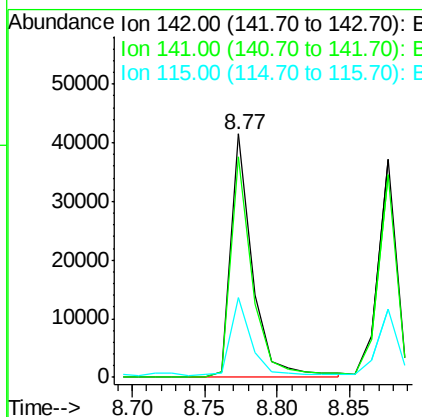
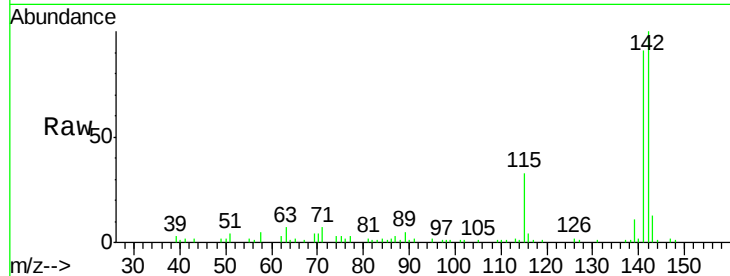
#37
2-Methylnaphthalene
Concen: 6.63 ng
RT: 8.77 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	67.5	101.3
115	32.6	18.2	27.2

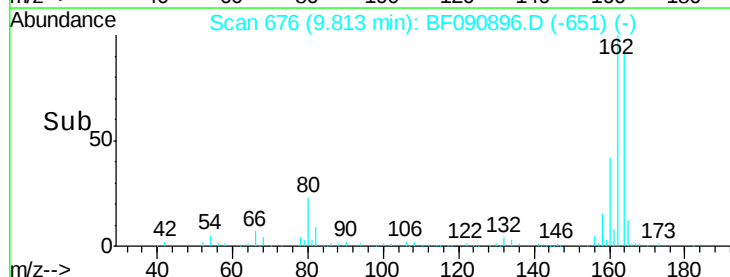
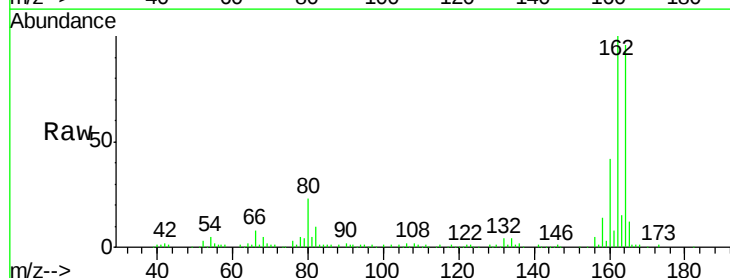
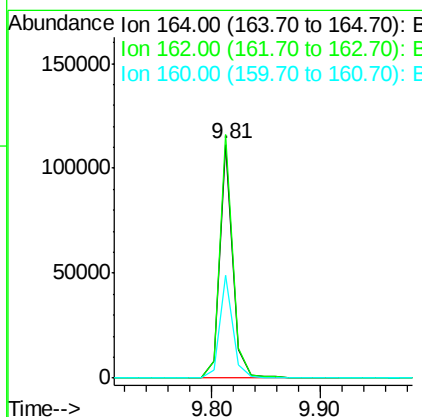
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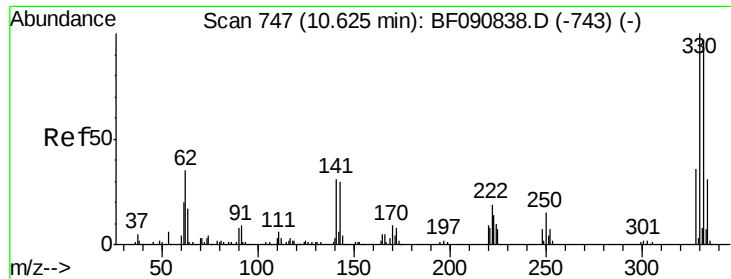
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	75.2	112.8
160	44.1	31.5	47.3





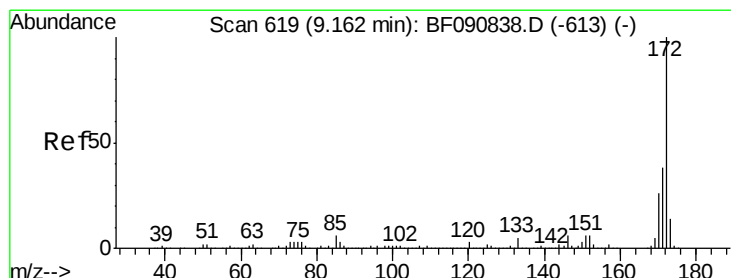
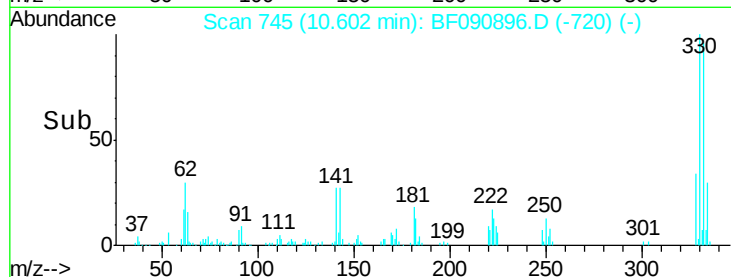
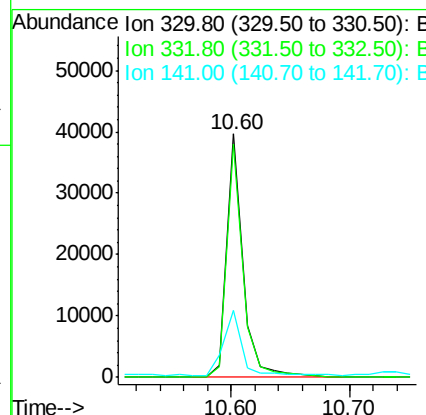
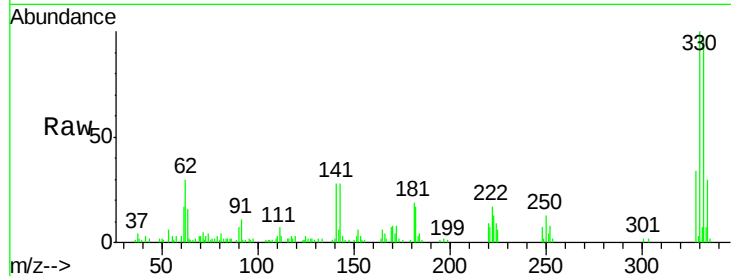
#41
 2,4,6-Tribromophenol
 Concen: 38.37 ng
 RT: 10.60 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF090896.D
 Acq: 28 Oct 2016 4:46

Instrument :
 BNA_F
 ClientSampleId :
 SB-03-3.5-4.0

Tot Ion	Ratio	Resp	Lower	Upper
330	100	37110		
332	96.2		76.6	114.8
141	31.6		29.7	44.5

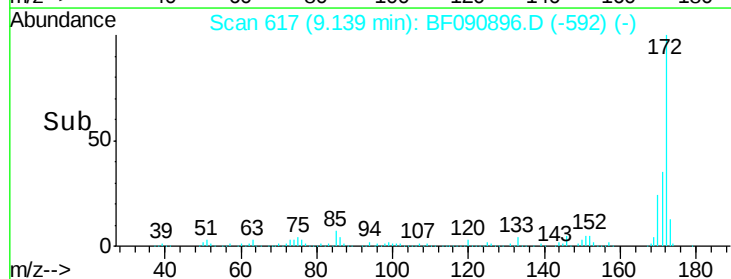
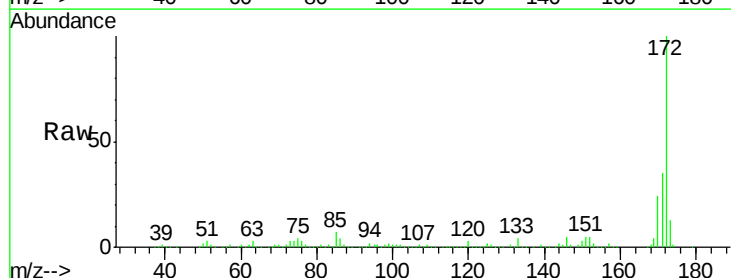
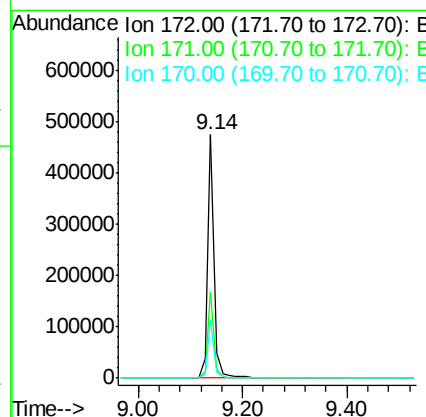
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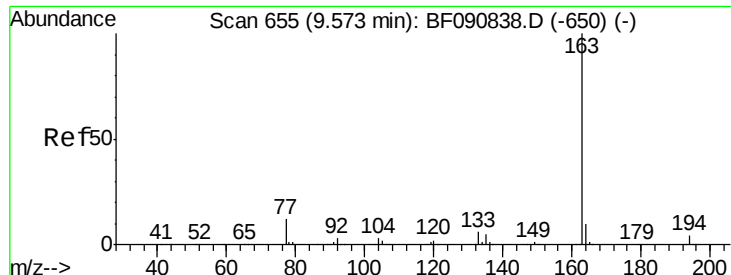
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#44
 2-Fluorobiphenyl
 Concen: 76.15 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF090896.D
 Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	408170		
171	35.5		26.1	39.1
170	23.9		17.4	26.2





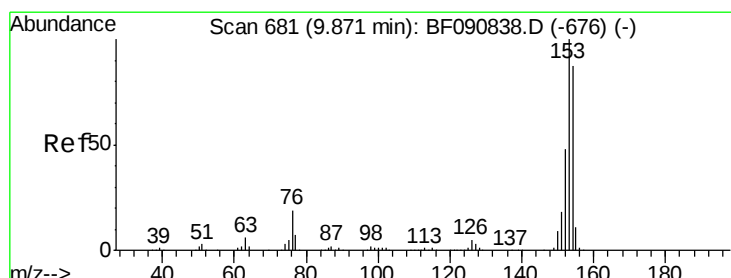
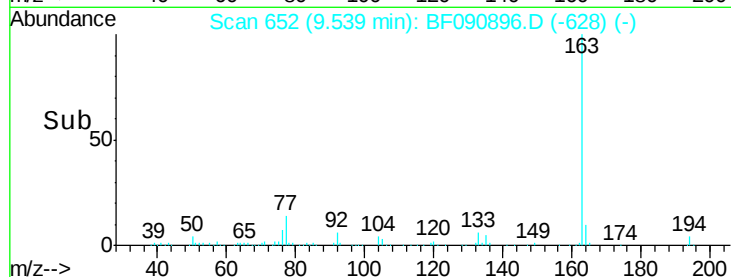
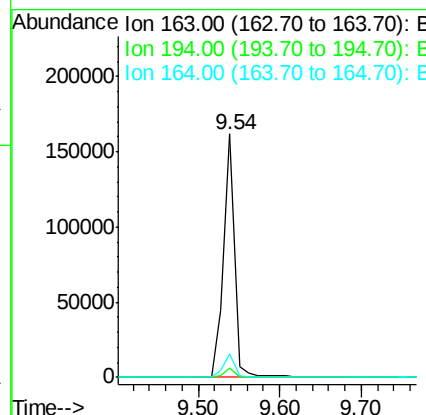
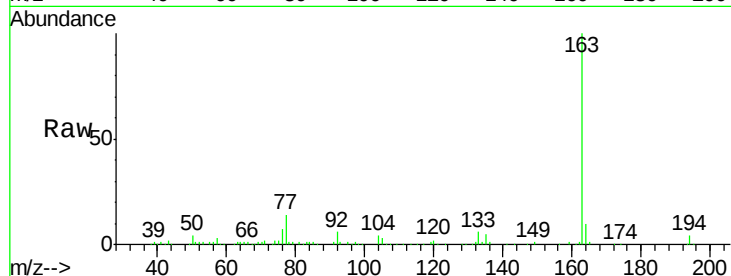
#49
Dimethylphthalate
Concen: 24.27 ng
RT: 9.54 min Scan# 652
Delta R.T. -0.02 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Resp	Lower	Upper
163	100	152617		
194	4.0	4.4	6.6#	
164	9.8	8.3	12.5	

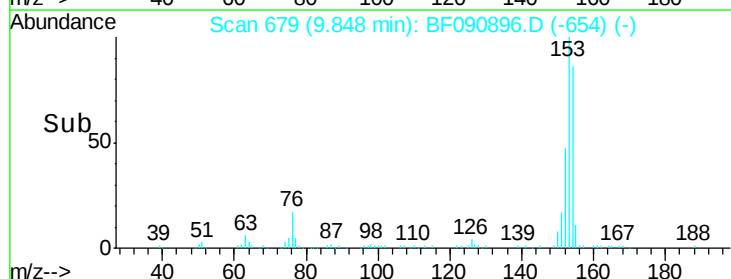
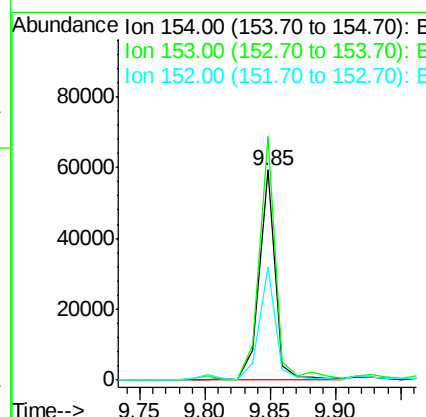
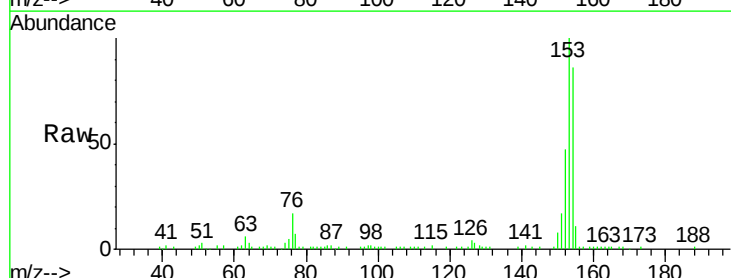
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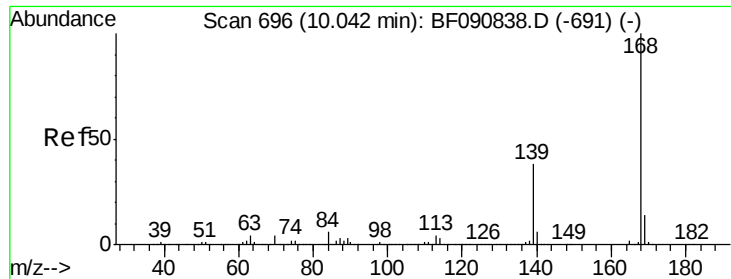
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#51
Acenaphthene
Concen: 9.48 ng
RT: 9.85 min Scan# 679
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	50968		
153	115.9	82.1	123.1	
152	54.1	37.9	56.9	





#54

Dibenzenofuran

Concen: 5.77 ng

RT: 10.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Instrument :

BNA_F

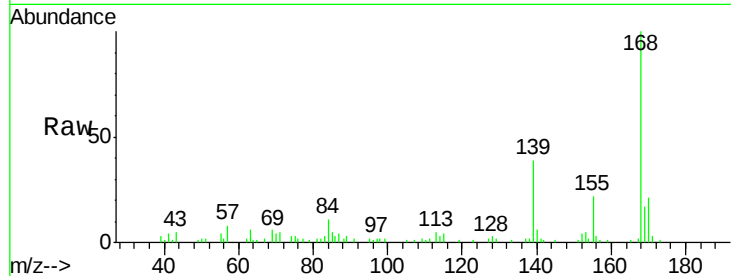
ClientSampleId :

SB-03-3.5-4.0

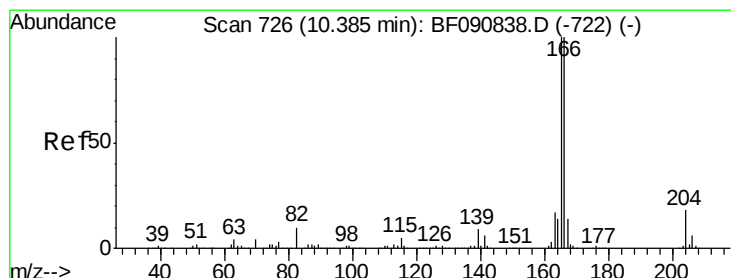
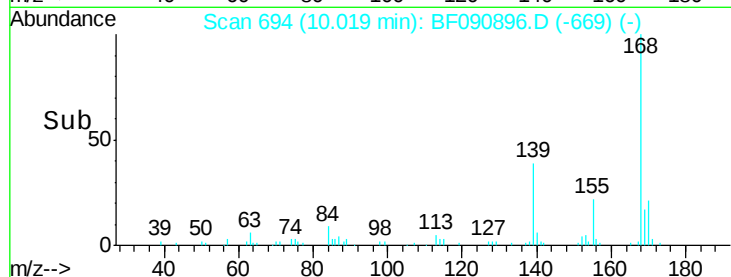
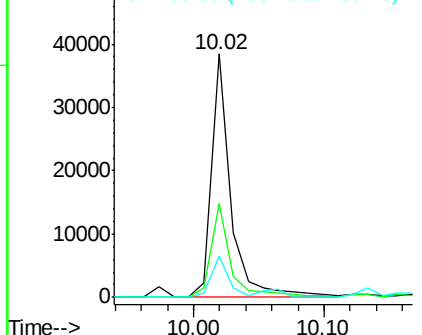
Tot Ion:168	Resp:	40072
Ion Ratio	Lower	Upper
168	100	
139	38.7	24.2 36.2#
169	17.1	10.6 15.8#

Manual Integrations
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Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 8.77 ng

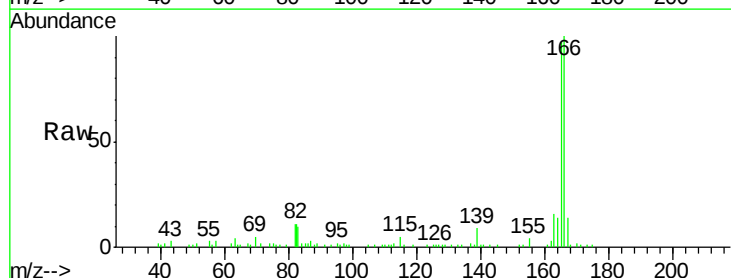
RT: 10.36 min Scan# 724

Delta R.T. -0.01 min

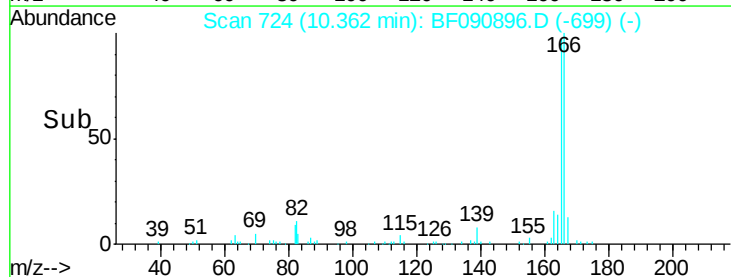
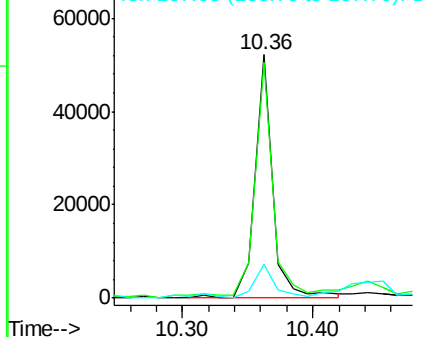
Lab File: BF090896.D

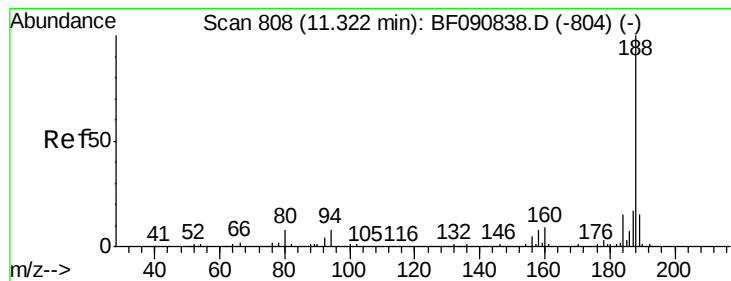
Acq: 28 Oct 2016 4:46

Tgt Ion:166	Resp:	49825
Ion Ratio	Lower	Upper
166	100	
165	96.7	72.6 109.0
167	14.0	10.6 16.0



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





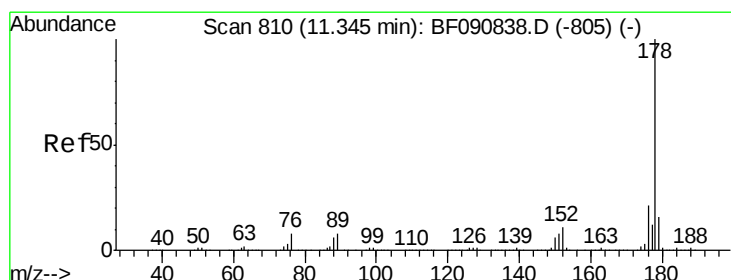
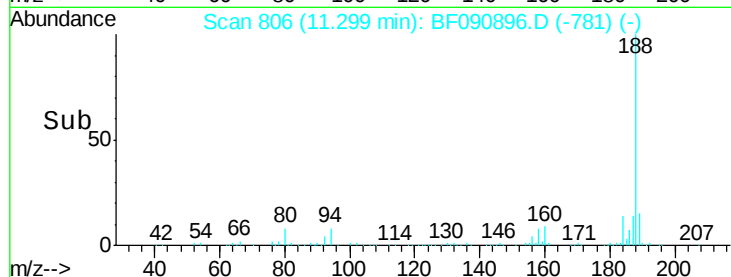
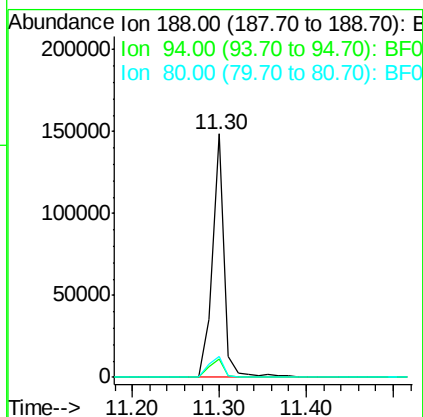
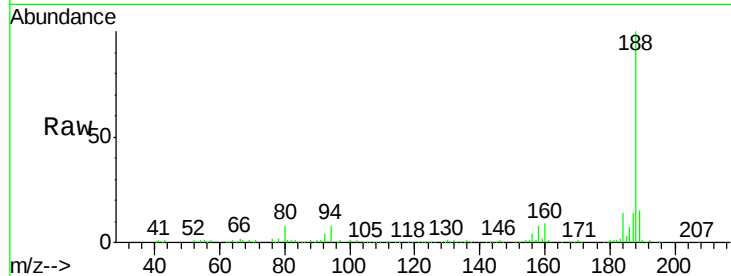
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Resp	Lower	Upper
188	100	141928		
94	7.8		11.1	16.7#
80	8.4		11.0	16.4#

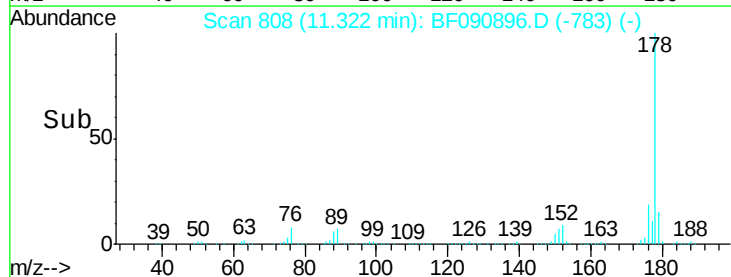
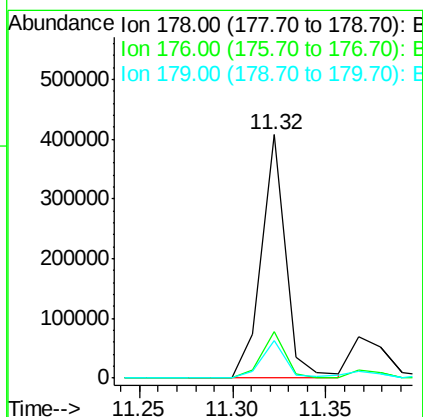
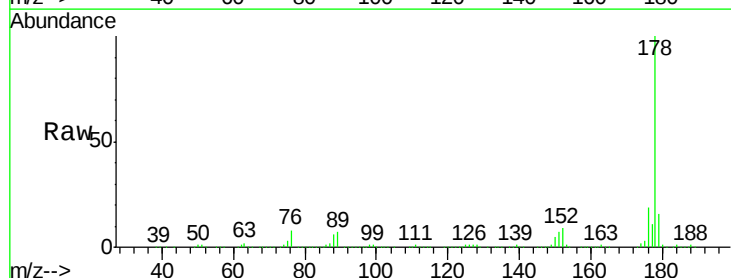
Manual Integrations
APPROVED

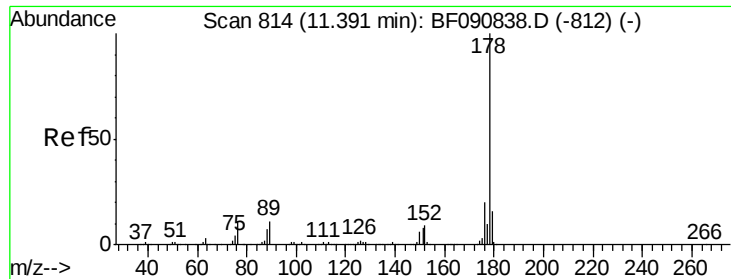
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#70
Phenanthrene
Concen: 50.38 ng
RT: 11.32 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	364147		
176	19.2		13.8	20.8
179	15.5		12.2	18.2





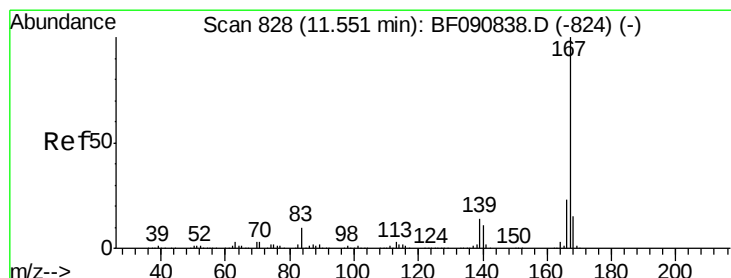
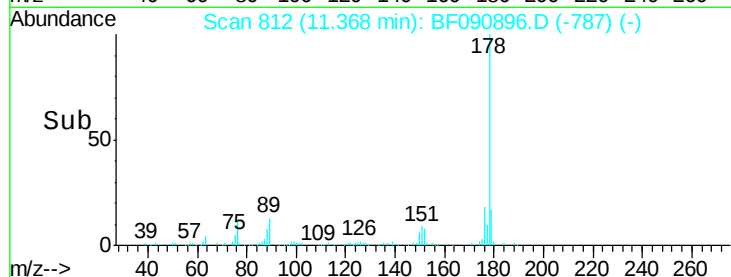
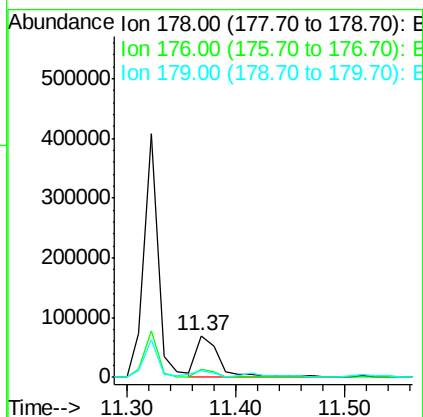
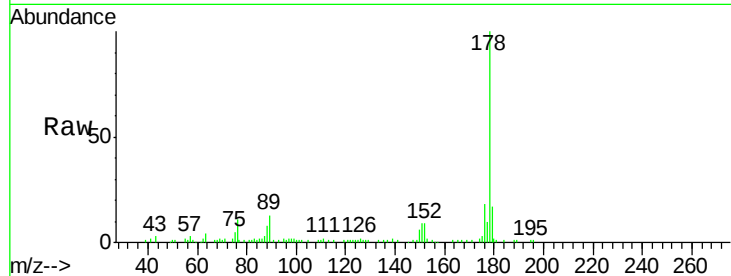
#71
 Anthracene
 Concen: 13.09 ng
 RT: 11.37 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: BF090896.D
 Acq: 28 Oct 2016 4:46

Instrument :
 BNA_F
 ClientSampled :
 SB-03-3.5-4.0

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.1	21.1
179	17.0	12.2	18.2

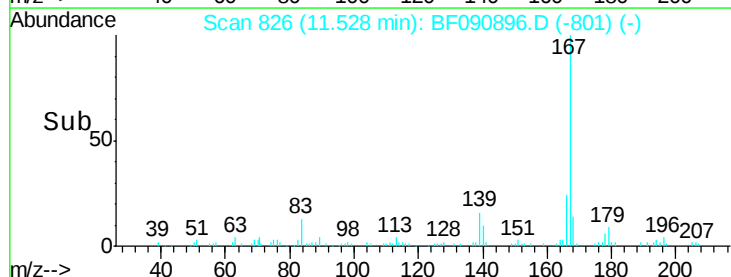
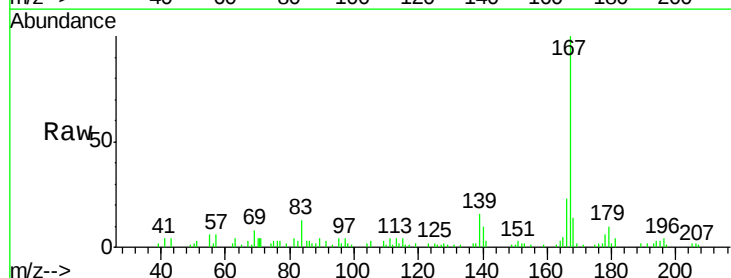
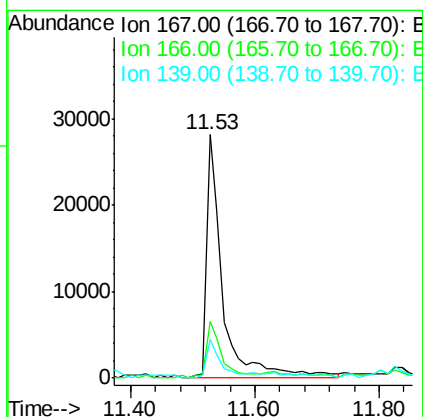
Manual Integrations
 APPROVED

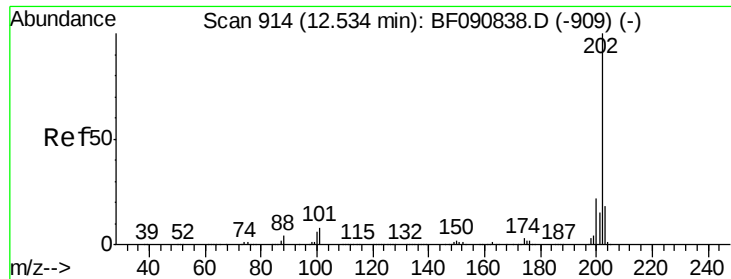
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#72
 Carbazole
 Concen: 7.59 ng
 RT: 11.53 min Scan# 826
 Delta R.T. -0.01 min
 Lab File: BF090896.D
 Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.3	15.7	23.5
139	15.8	9.5	14.3#





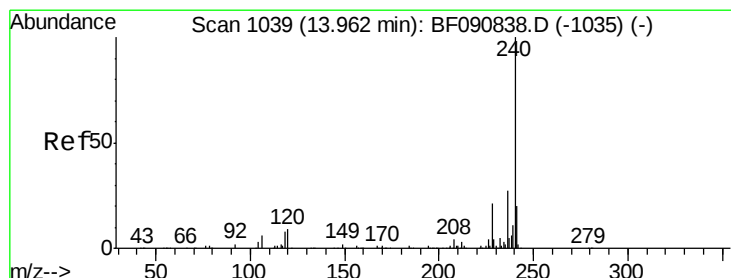
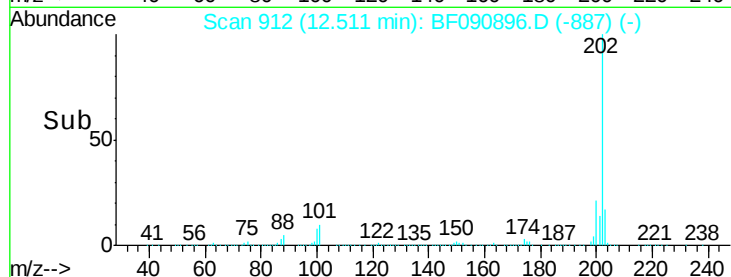
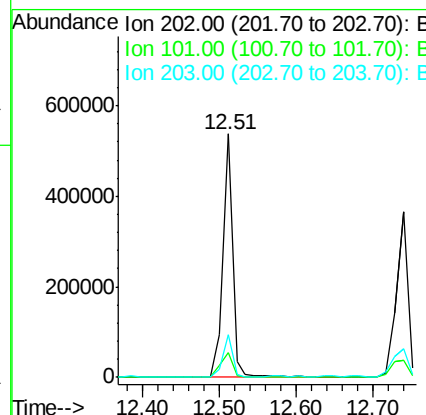
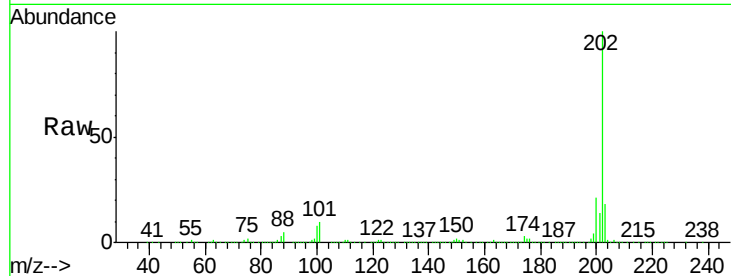
#74
Fluoranthene
Concen: 59.78 ng
RT: 12.51 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.4	0.0	38.3
203	17.5	0.0	37.3

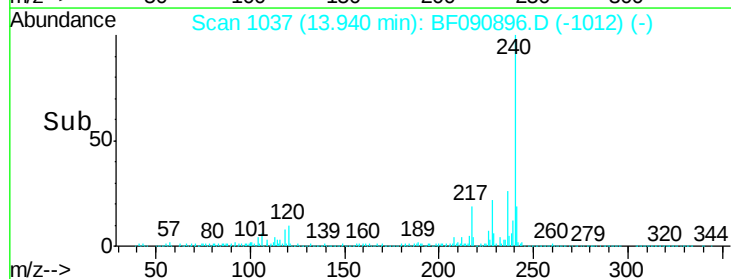
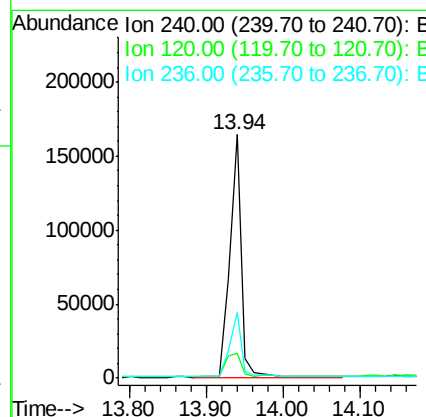
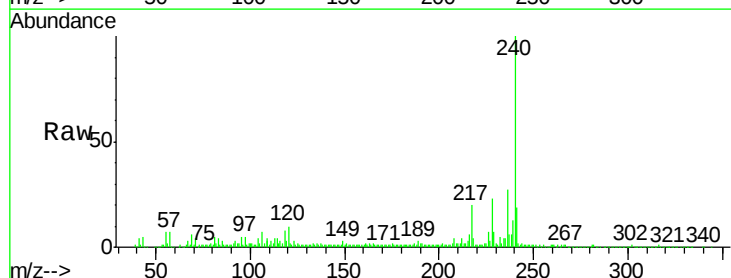
Manual Integrations
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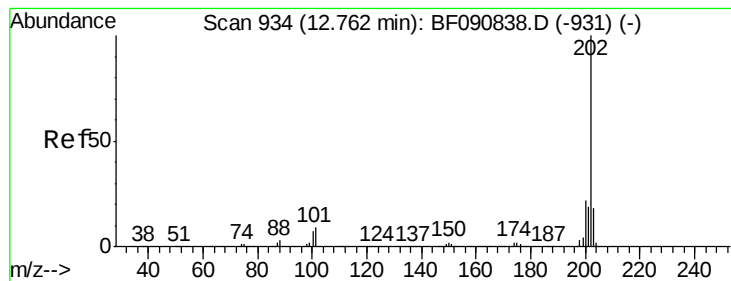
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#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.94 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.3	16.2	24.2#
236	26.7	18.4	27.6





#77

Pvrene

Concen: 33.47 ng

RT: 12.74 min Scan# 932

Delta R.T. -0.01 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Instrument :

BNA_F

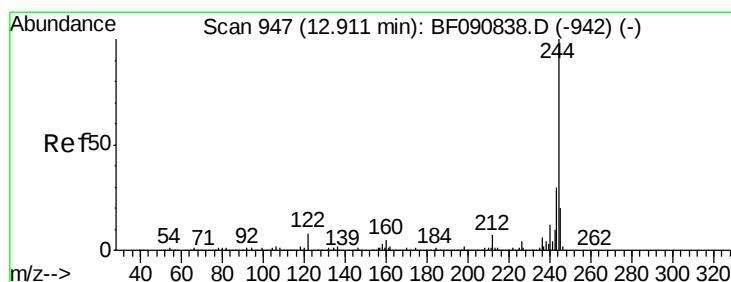
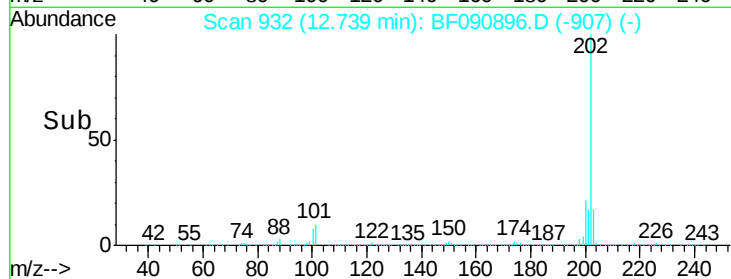
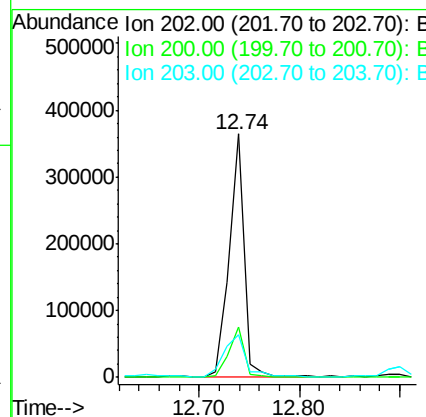
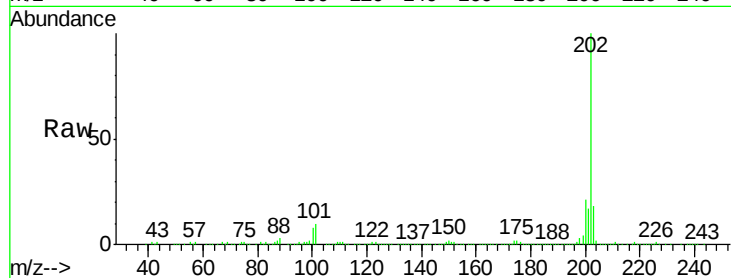
ClientSampleId :

SB-03-3.5-4.0

Tot Ion:	202	Resp:	373444
Ion Ratio		Lower	Upper
202	100		
200	20.9	15.0	22.4
203	17.7	14.1	21.1

Manual Integrations
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#78

Terphenyl-d14

Concen: 47.72 ng

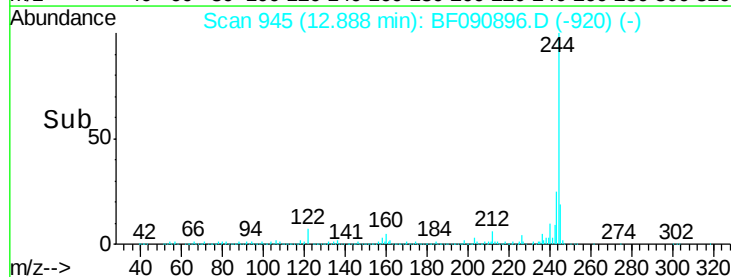
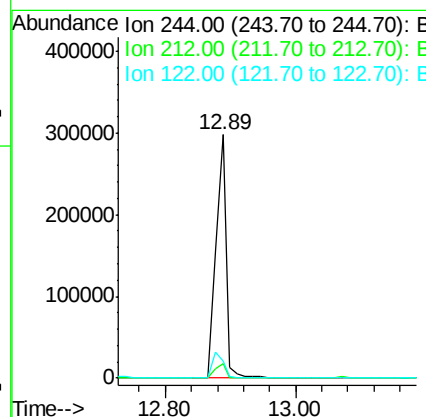
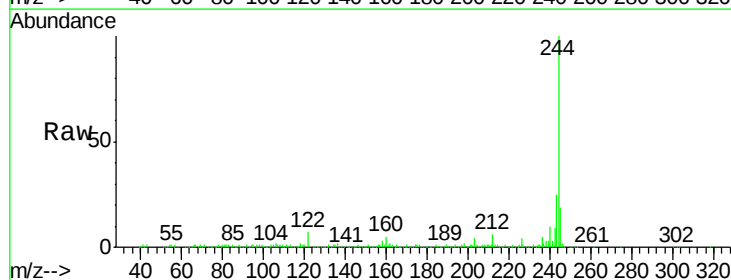
RT: 12.89 min Scan# 945

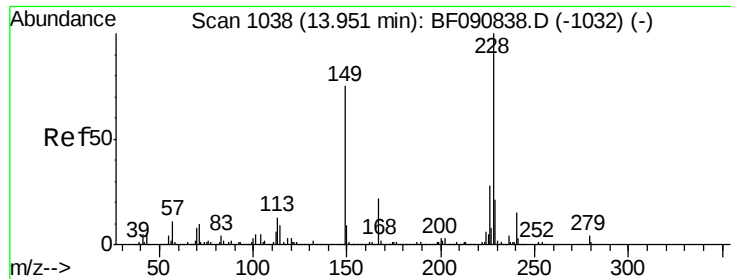
Delta R.T. -0.01 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Tgt Ion:	244	Resp:	333962
Ion Ratio		Lower	Upper
244	100		
212	6.1	4.3	6.5
122	7.0	17.4	26.2#





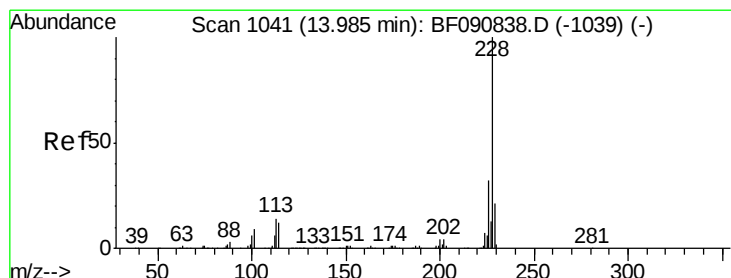
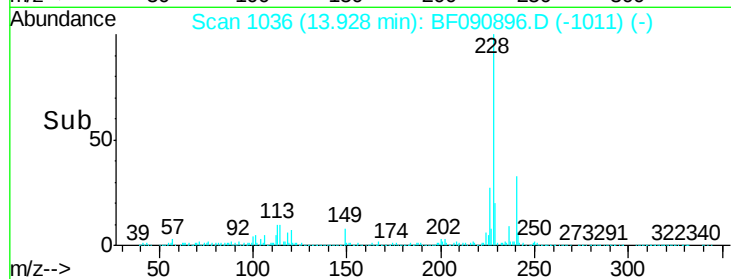
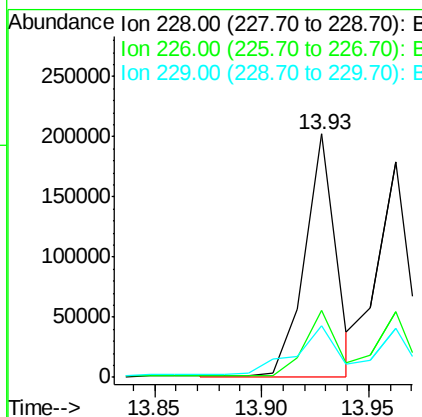
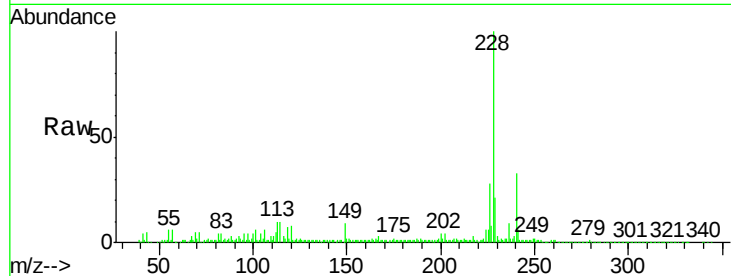
#80
Benzo(a)anthracene
Concen: 22.28 ng m
RT: 13.93 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.6	20.0	30.0
229	21.3	15.4	23.2

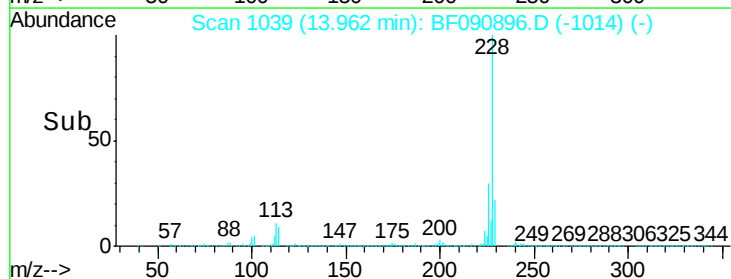
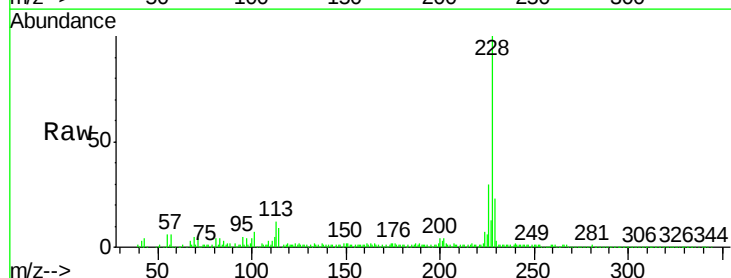
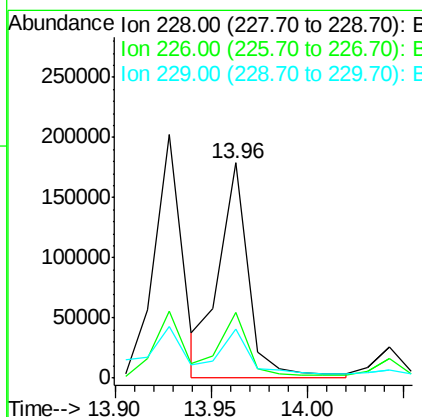
Manual Integrations
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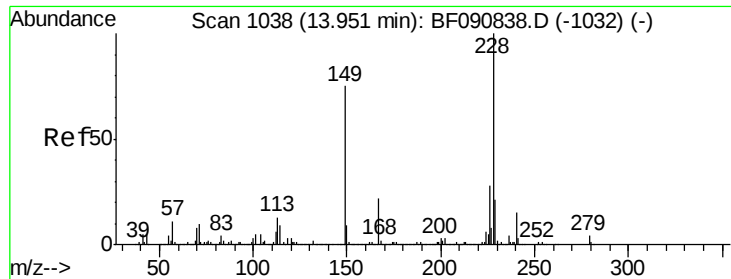
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#82
Chrysene
Concen: 20.04 ng m
RT: 13.96 min Scan# 1039
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	21.0	31.4
229	22.6	15.6	23.4





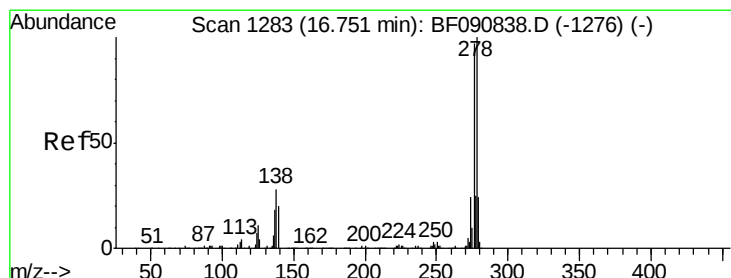
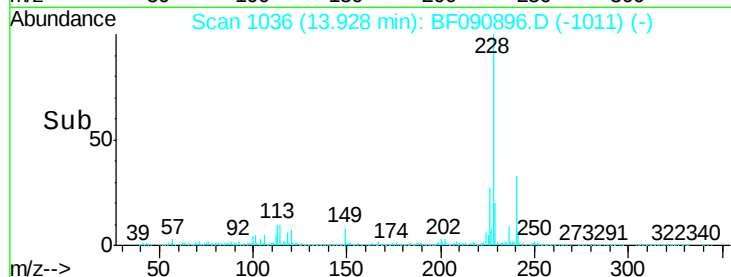
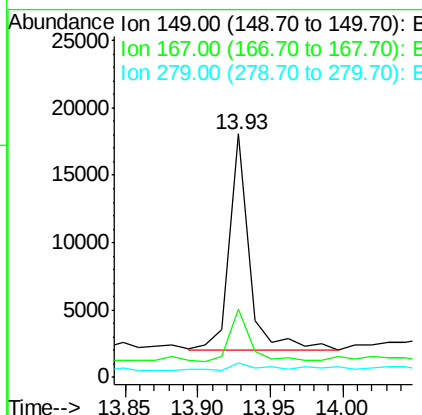
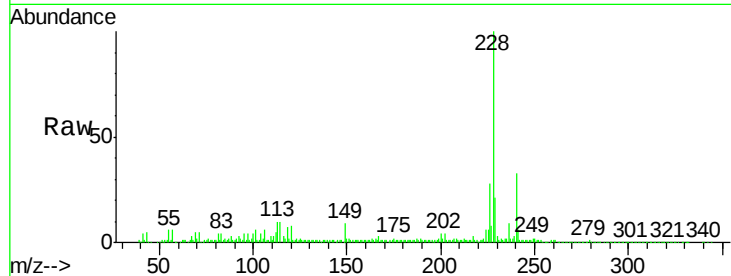
#83
Bis(2-ethylhexyl)phthalate
Concen: 2.31 ng
RT: 13.93 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Resp	Lower	Upper
149	100			
167	28.2	24.2	36.2	
279	5.8	3.8	5.6	

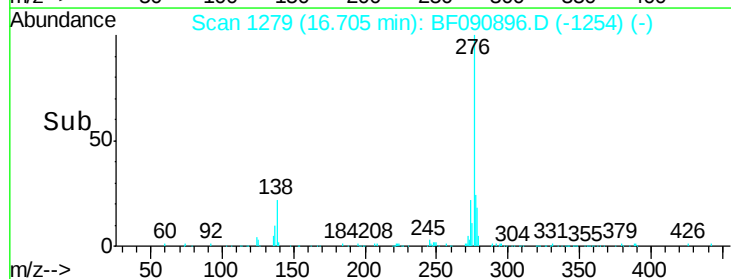
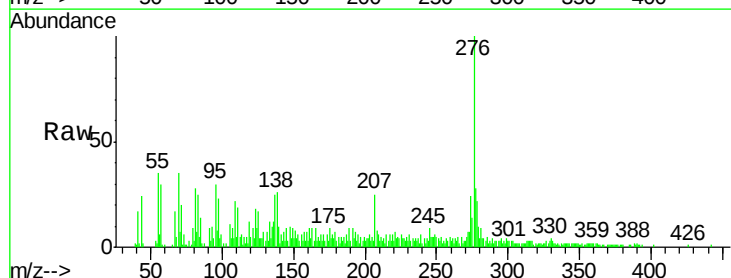
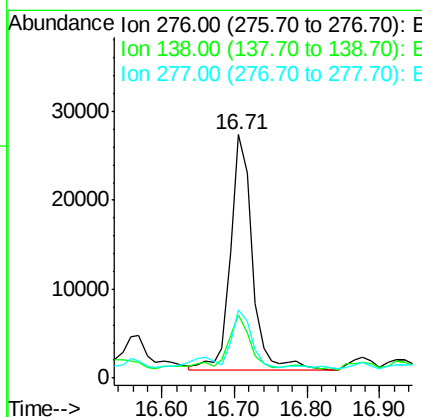
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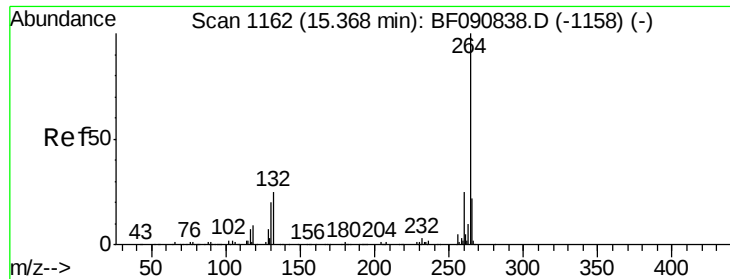
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.58 ng
RT: 16.71 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	23.9	25.7	38.5	
277	21.4	15.6	23.4	





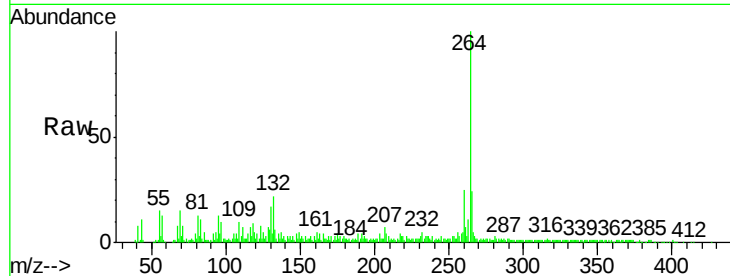
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SB-03-3.5-4.0

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.5	16.7	25.1#
265	24.0	17.2	25.8

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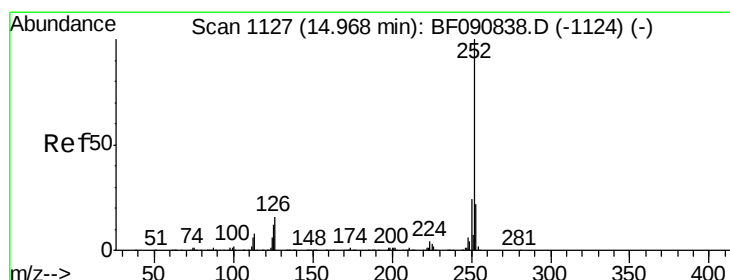
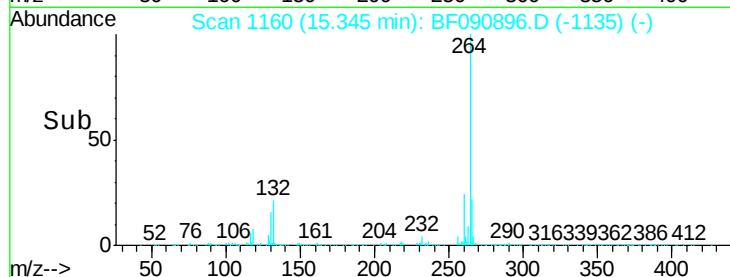
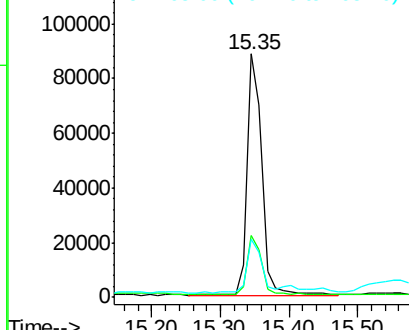


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 22.47 ng m
RT: 14.96 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

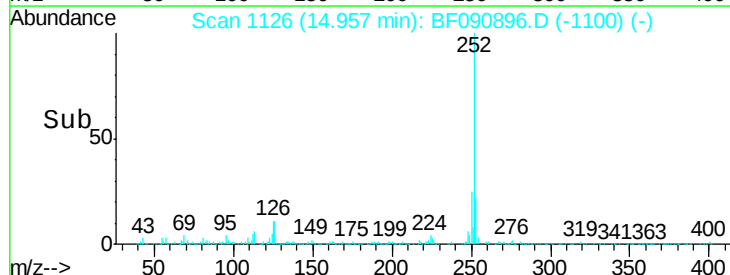
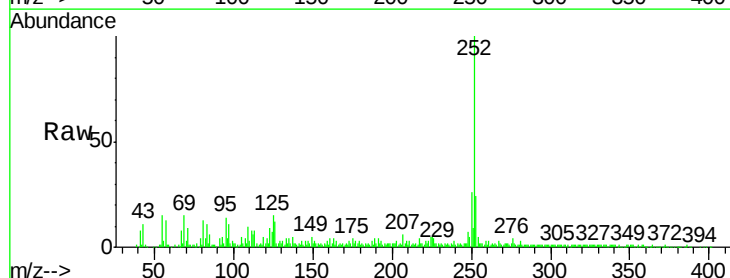
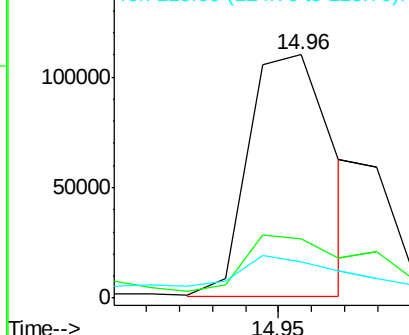
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.5	26.3
125	14.8	17.1	25.7#

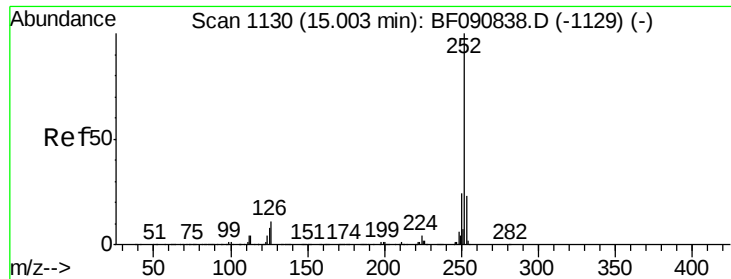
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 7.34 ng m

RT: 14.97 min Scan# 1127

Delta R.T. -0.02 min

Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Instrument :

BNA_F

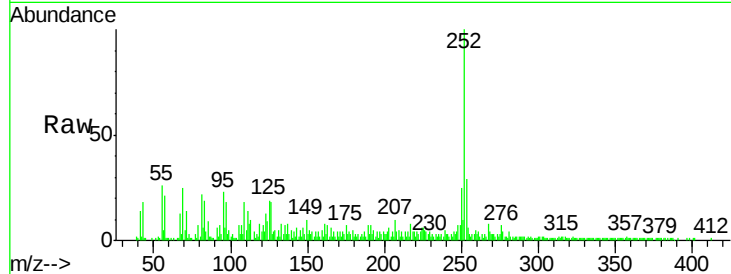
ClientSampleId :

SB-03-3.5-4.0

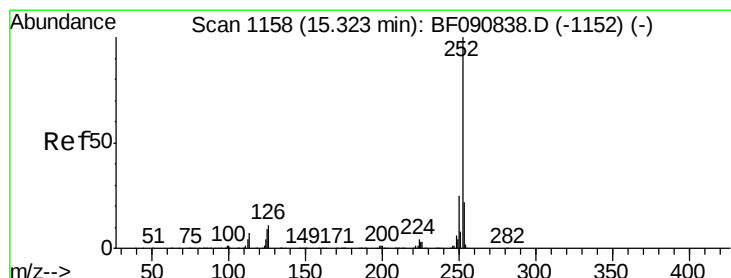
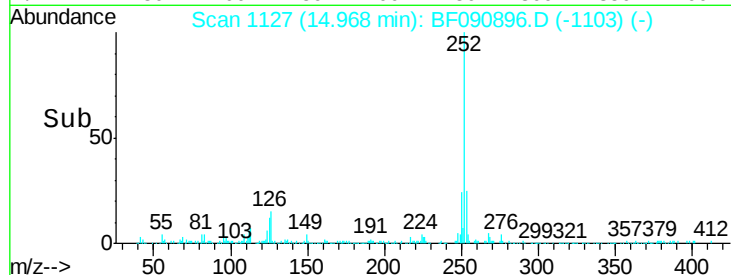
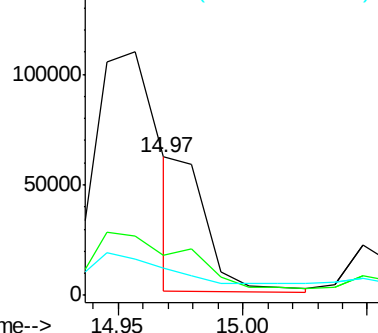
Tot Ion:	252	Resp:	50268
Ion Ratio	Lower	Upper	
252	100		
253	28.5	17.0	25.4#
125	19.3	16.0	24.0

Manual Integrations
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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



#89

Benzo(a)pyrene

Concen: 15.18 ng m

RT: 15.29 min Scan# 1155

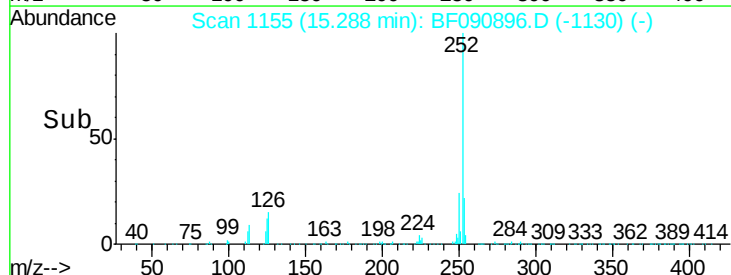
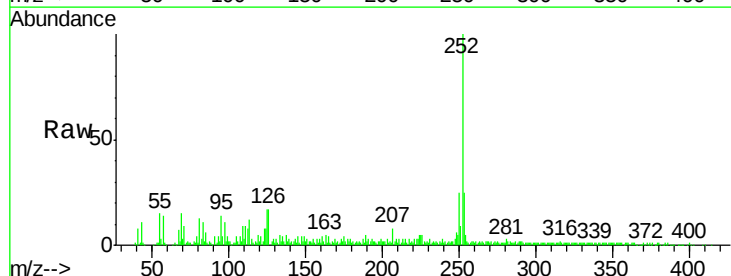
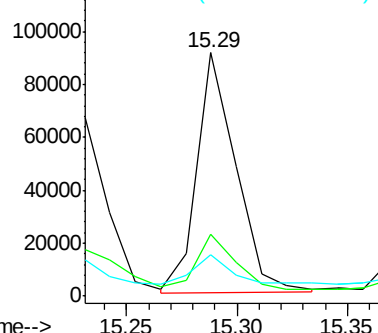
Delta R.T. -0.01 min

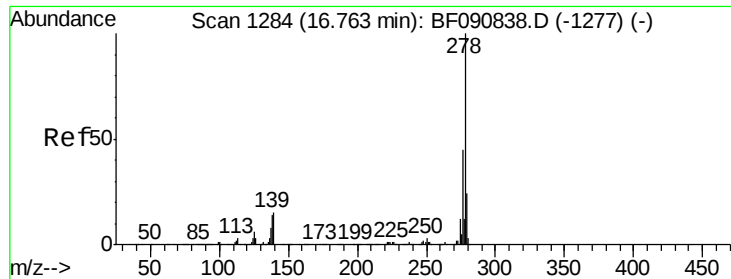
Lab File: BF090896.D

Acq: 28 Oct 2016 4:46

Tgt Ion:	252	Resp:	113063
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.2	25.8
125	17.2	18.0	27.0#

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





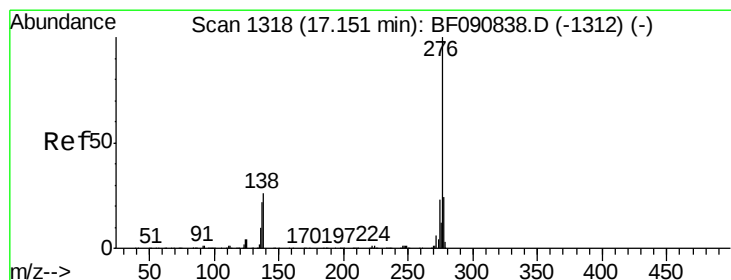
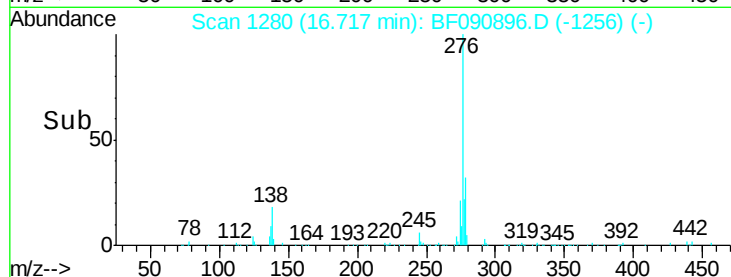
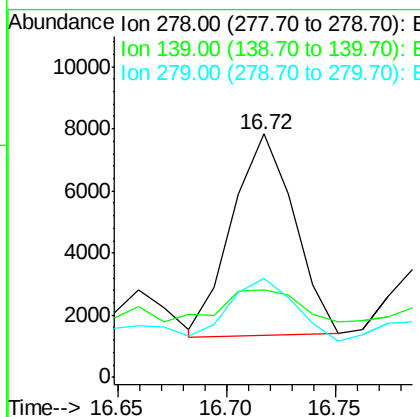
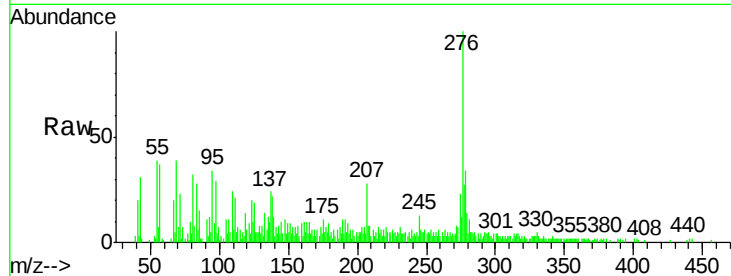
#90
Dibenzo(a,h)anthracene
Concen: 2.04 ng
RT: 16.72 min Scan# 1280
Delta R.T. -0.02 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Instrument :
BNA_F
ClientSampled :
SB-03-3.5-4.0

Tot Ion	Ratio	Lower	Upper
278	100		
139	36.1	26.3	39.5
279	40.5	18.2	27.4

Manual Integrations
APPROVED

sohil
10/28/2016 5:24:04 PM



#91
Benzo(g,h,i)perylene
Concen: 8.13 ng
RT: 17.12 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BF090896.D
Acq: 28 Oct 2016 4:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	17.8	26.6
138	26.1	34.6	51.8

