

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
 Data File : BF090885.D
 Acq On : 27 Oct 2016 23:47
 Operator : UM/SJ
 Sample : H5422-05
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Manual Integrations
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Quant Time: Oct 28 13:05:48 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	145125	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	536837	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	251247	20.00	ng	-0.01
63) Phenanthrene-d10	11.31	188	337936	20.00	ng	0.00
75) Chrysene-d12	13.96	240	329485	20.00	ng	0.01
86) Perylene-d12	15.38	264	404780	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	1103986	133.00	ng	0.00
7) Phenol-d6	6.42	99	1333852	119.11	ng	0.00
23) Nitrobenzene-d5	7.34	82	792909	96.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.61	330	266851	103.35	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	1205155	84.23	ng	-0.01
78) Terphenyl-d14	12.89	244	972294	74.35	ng	-0.01

Target Compounds

						Qvalue
10) Phenol	6.43	94	41025	3.32	ng	85
20) 3+4-Methylphenols	7.20	107	18762	2.08	ng	89
31) Naphthalene	8.09	128	1895907	75.55	ng	96
37) 2-Methylnaphthalene	8.77	142	604275	37.28	ng	# 90
45) 1,1'-Biphenyl	9.24	154	225332	12.45	ng	95
48) Acenaphthylene	9.68	152	44498	2.13	ng	# 69
49) Dimethylphthalate	9.54	163	304547	18.14	ng	# 97
51) Acenaphthene	9.85	154	1086343	75.67	ng	87
54) Dibenzofuran	10.02	168	1316632	71.07	ng	# 86
57) Fluorene	10.36	166	1153644	76.02	ng	# 92
70) Phenanthrene	11.34	178	6511046	378.35	ng	# 91
71) Anthracene	11.39	178	2395344	132.18	ng	94
72) Carbazole	11.54	167	1179699	73.72	ng	94
74) Fluoranthene	12.53	202	5568808	295.49	ng	91
77) Pyrene	12.76	202	4571645	219.25	ng	# 90
80) Benzo(a)anthracene	13.95	228	3109260	177.81	ng	# 91
82) Chrysene	13.99	228	2541951m	143.72	ng	
83) Bis(2-ethylhexyl)phthalate	13.94	149	48673	3.95	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.75	276	1279595	81.64	ng	# 82
87) Benzo(b)fluoranthene	14.99	252	3130523m	115.02	ng	
88) Benzo(k)fluoranthene	14.99	252	1685065m	78.34	ng	
89) Benzo(a)pyrene	15.33	252	2561150	109.51	ng	# 83
90) Dibenzo(a,h)anthracene	16.75	278	425326	21.48	ng	# 79
91) Benzo(g,h,i)perylene	17.16	276	1057619	56.72	ng	# 77

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

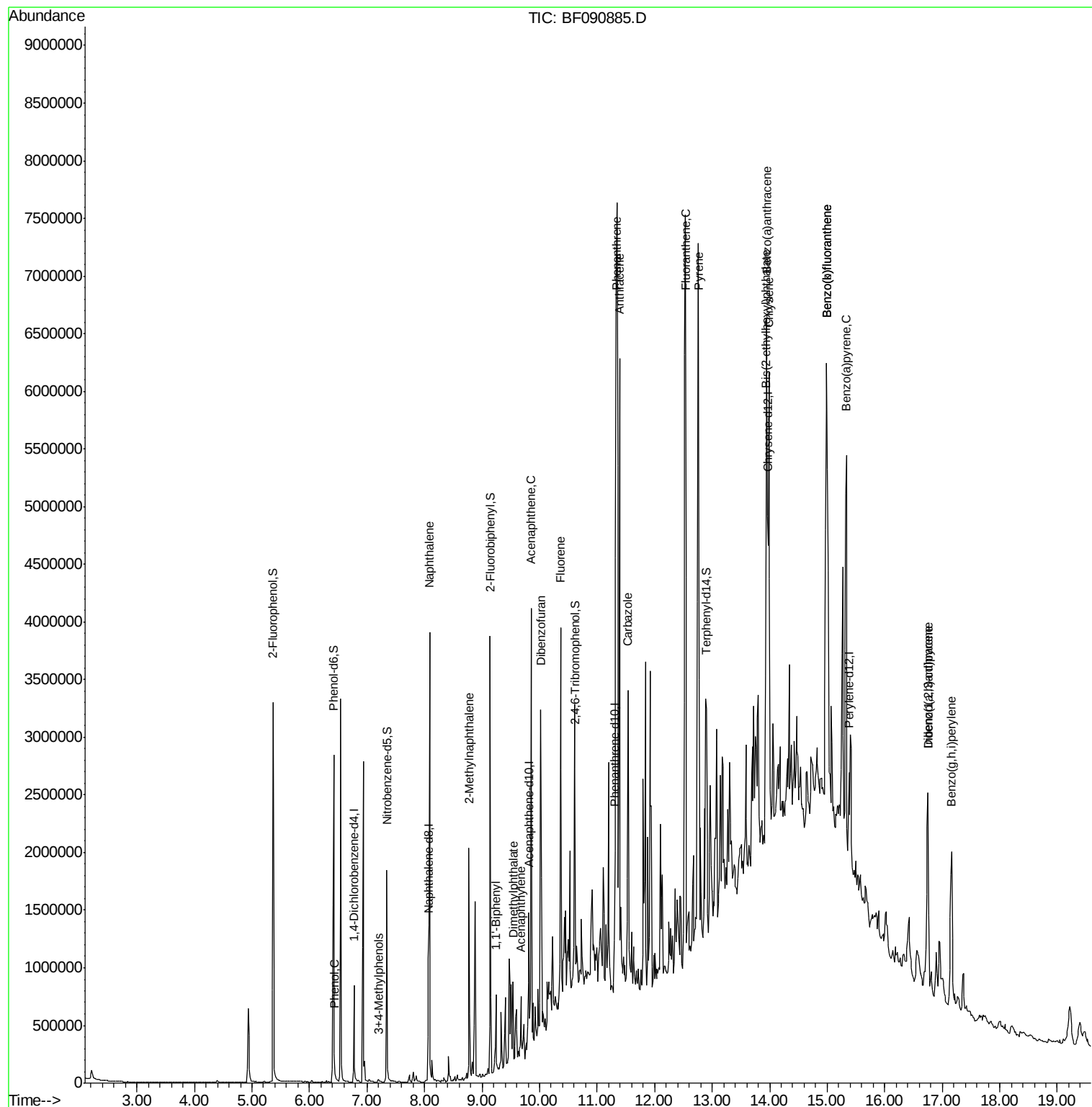
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
Data File : BF090885.D
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#1

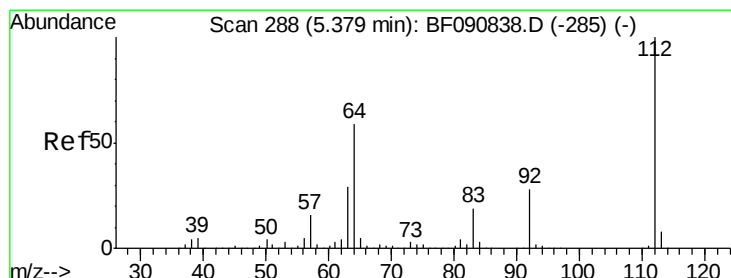
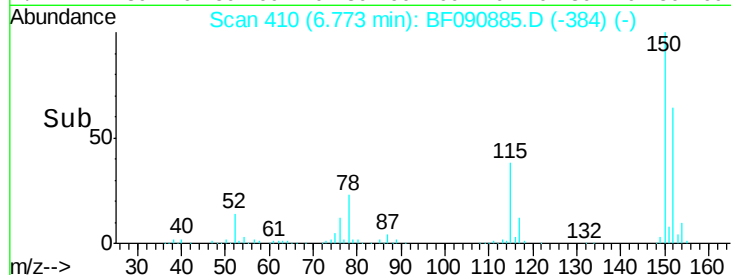
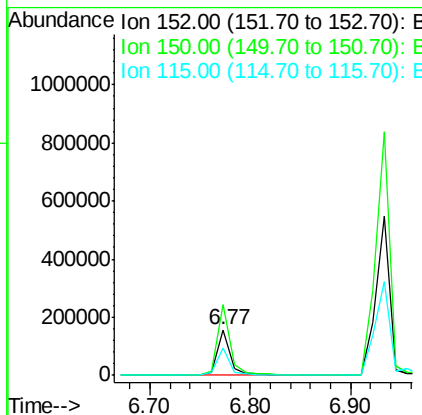
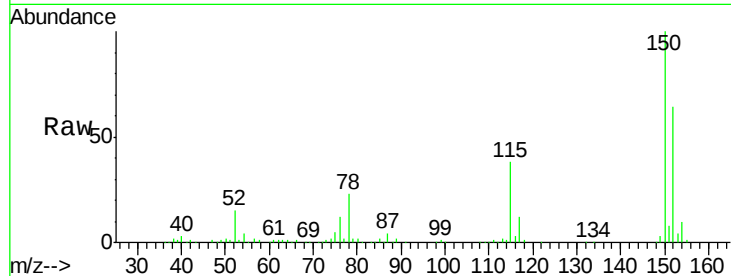
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.3	124.7	187.1
115	59.2	39.0	58.4#

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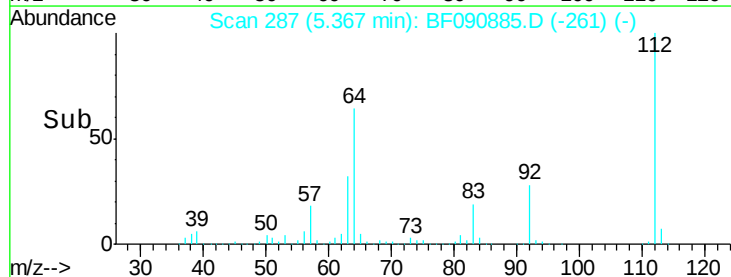
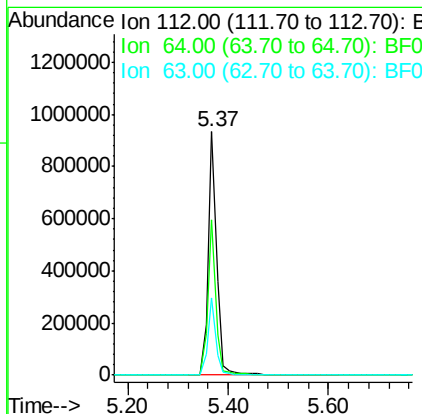
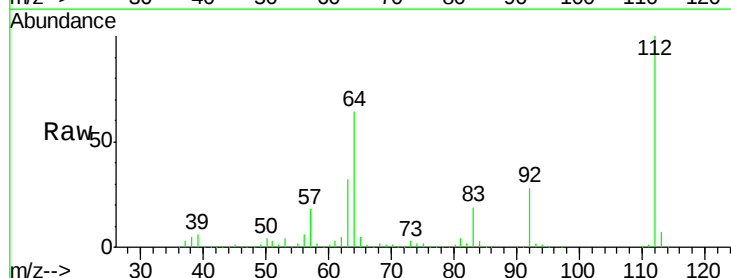
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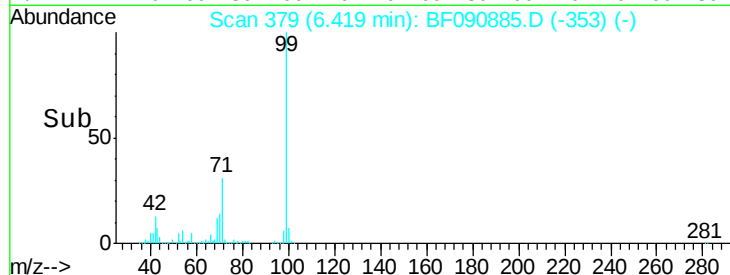
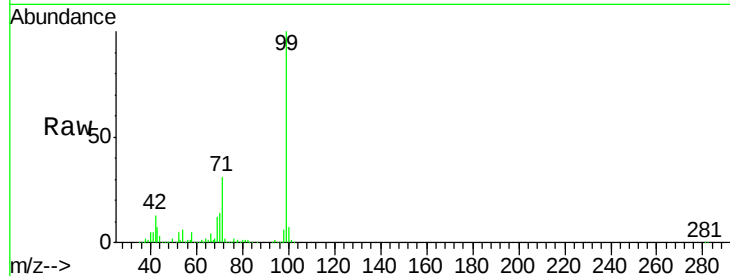


#5

2-Fluorophenol
Concen: 133.00 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.9	39.7	59.5#
63	31.7	17.4	26.0#





#7

Phenol-d6

Concen: 119.11 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

Tot Ion:	99	Resp:	1333852
Ion	Ratio	Lower	Upper
99	100		
42	13.2	13.7	20.5#
71	31.2	14.2	21.2#

Instrument :

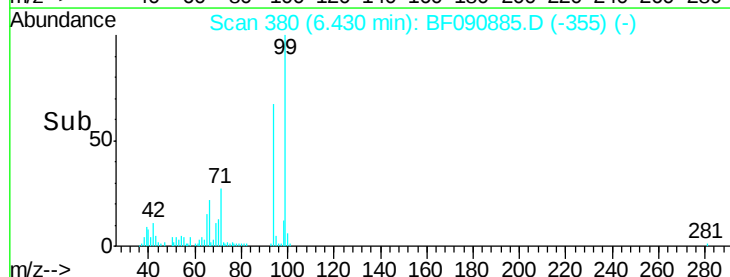
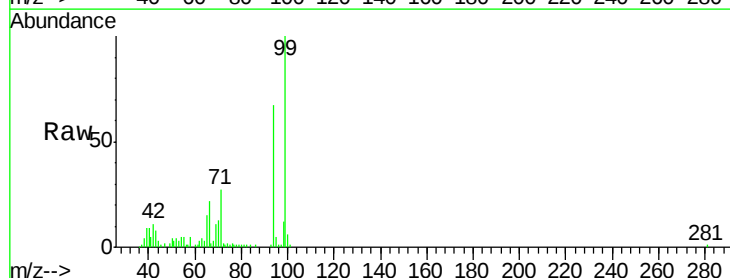
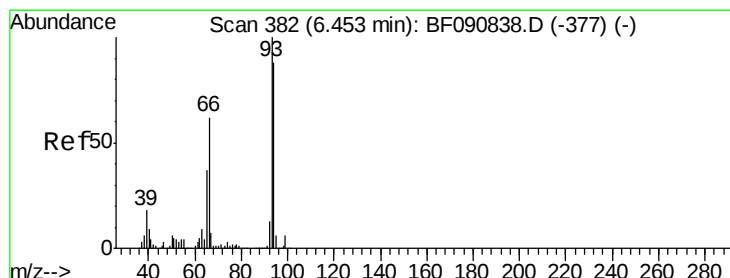
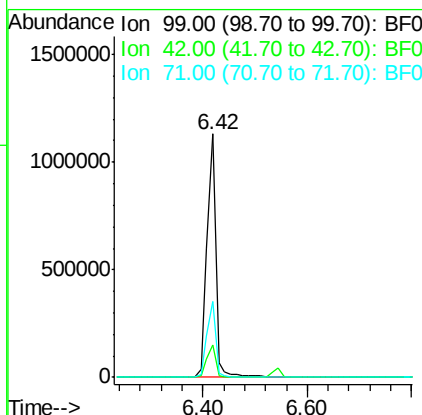
BNA_F

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#10

Phenol

Concen: 3.32 ng

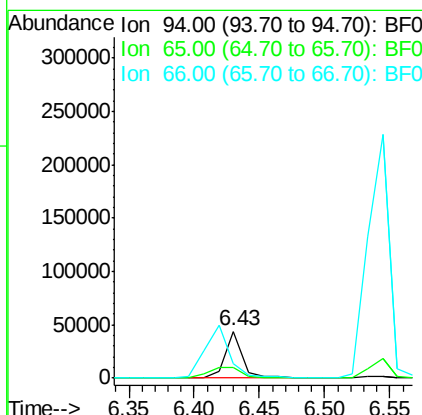
RT: 6.43 min Scan# 380

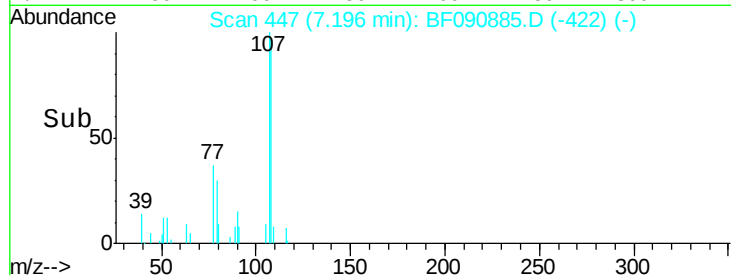
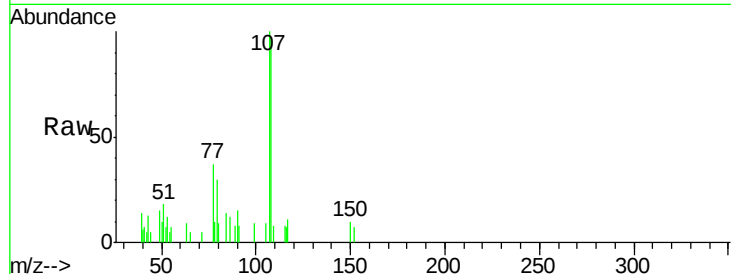
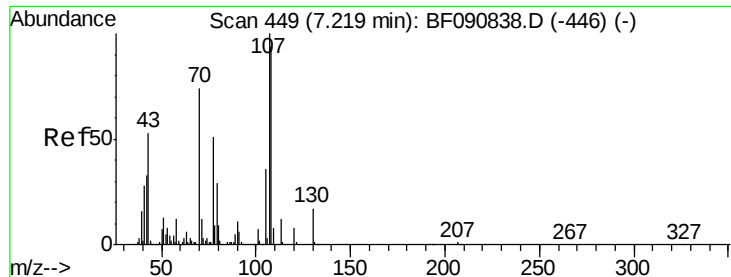
Delta R.T. -0.01 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

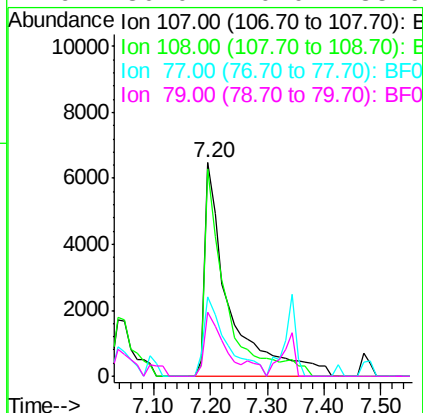
Tgt Ion:	94	Resp:	41025
Ion	Ratio	Lower	Upper
94	100		
65	22.8	0.7	40.7
66	32.5	0.8	40.8





#20
3+4-Methylphenols
Concen: 2.08 ng
RT: 7.20 min Scan# 447
Delta R.T. -0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

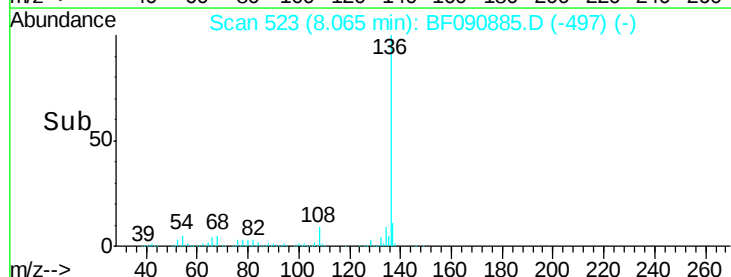
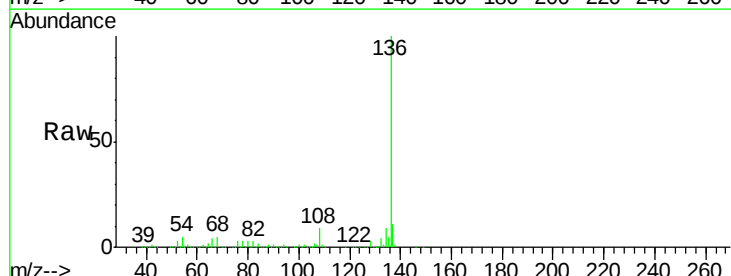
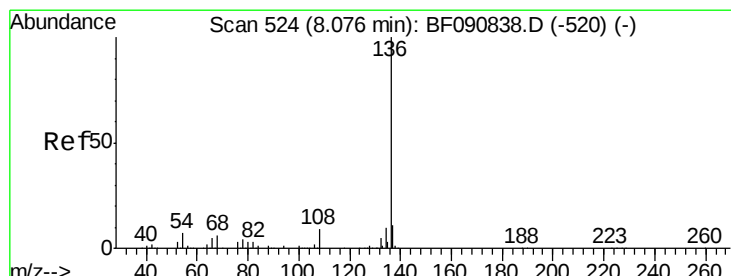
Tot Ion	Ratio	Lower	Upper
107	100		
108	97.0	74.6	114.6
77	37.1	0.7	40.7
79	30.0	0.0	38.9



Instrument :
BNA_F
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SB-2-COMP

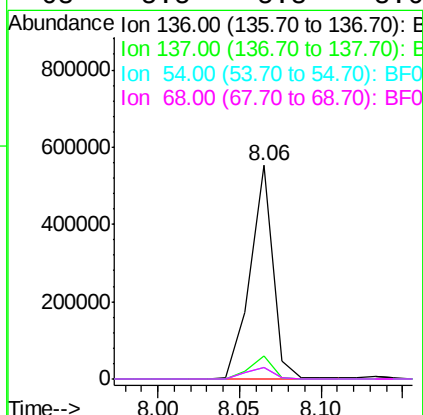
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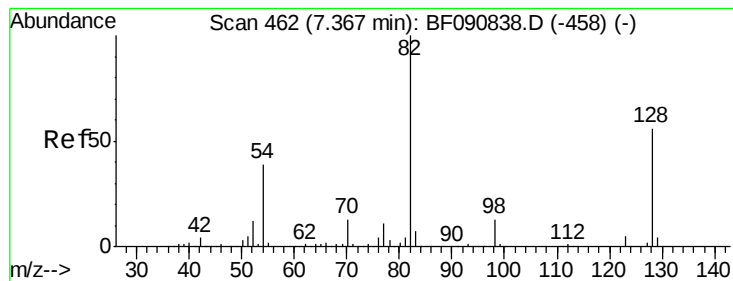
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.06 min Scan# 523
Delta R.T. 0.00 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.6
54	5.5	8.2	12.2#
68	5.5	5.8	8.6#





#23

Nitrobenzene-d5

Concen: 96.69 ng

RT: 7.34 min Scan# 460

Delta R.T. -0.01 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

Instrument :

BNA_F

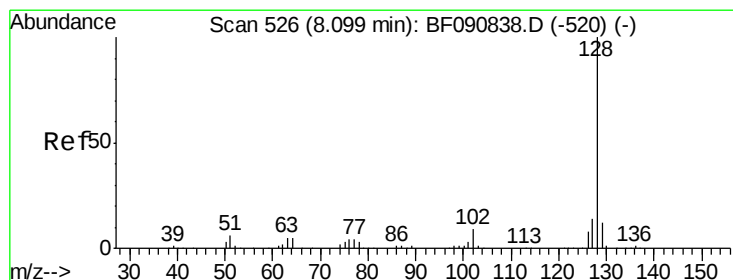
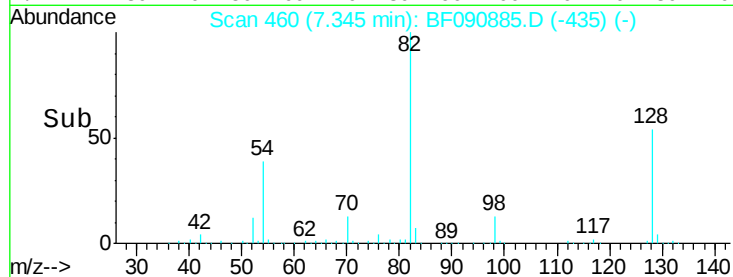
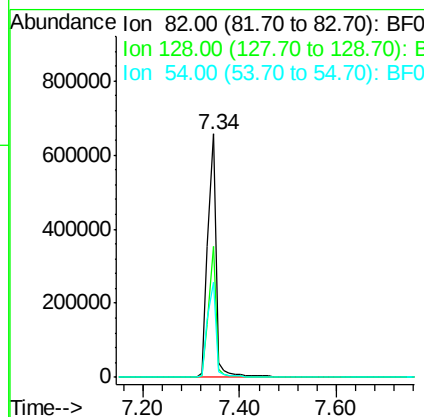
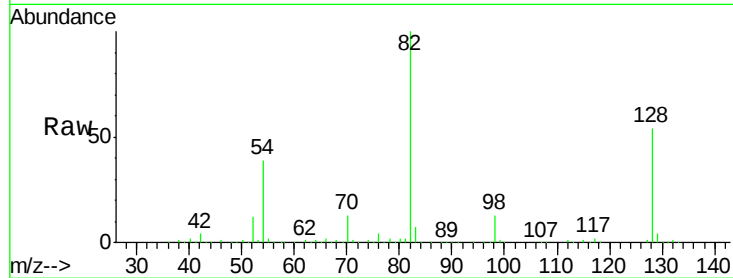
ClientSampleId :

SB-2-COMP

Tot Ion:	82	Resp:	792909
Ion Ratio	Lower	Upper	
82	100		
128	53.6	51.0	76.6
54	39.3	47.5	71.3#

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#31

Naphthalene

Concen: 75.55 ng

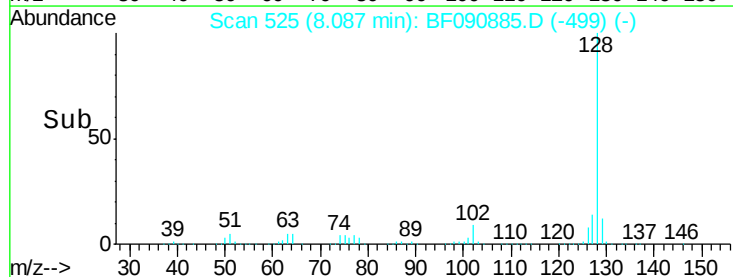
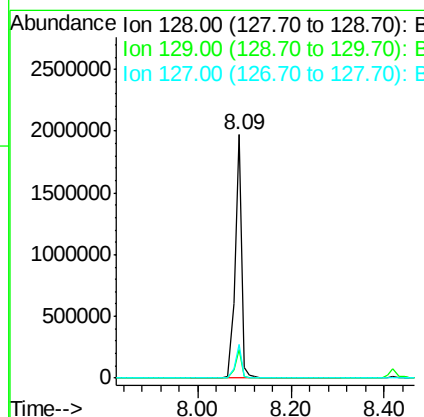
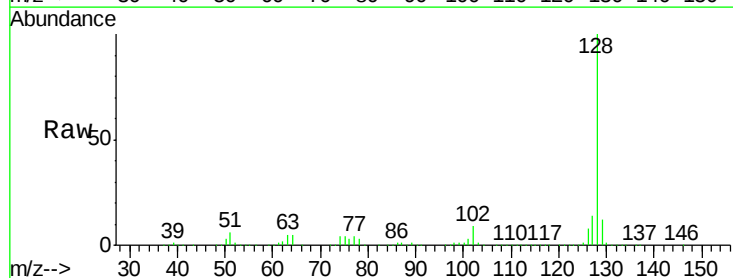
RT: 8.09 min Scan# 525

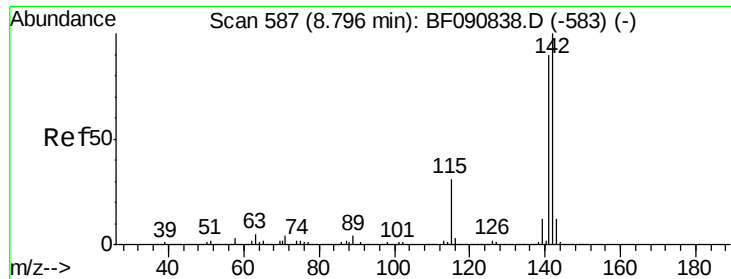
Delta R.T. 0.00 min

Lab File: BF090885.D

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Tgt Ion:	128	Resp:	1895907
Ion Ratio	Lower	Upper	
128	100		
129	11.8	8.4	12.6
127	14.1	9.9	14.9





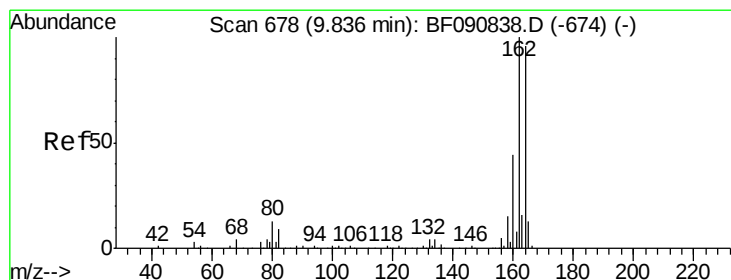
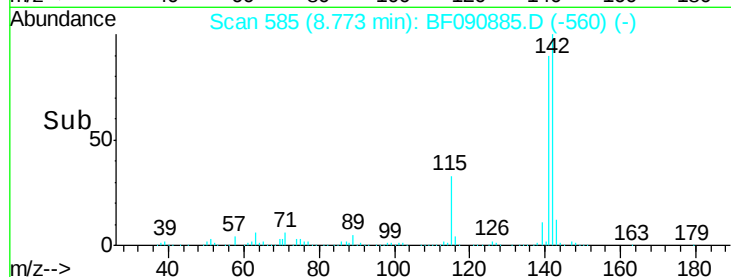
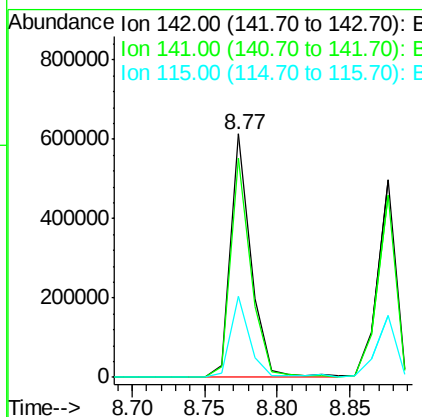
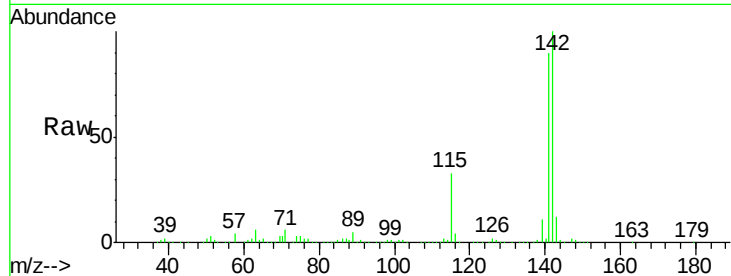
#37
2-Methylnaphthalene
Concen: 37.28 ng
RT: 8.77 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tot Ion	Ratio	Resp	Lower	Upper
142	100	604275		
141	90.2		67.5	101.3
115	33.0		18.2	27.2#

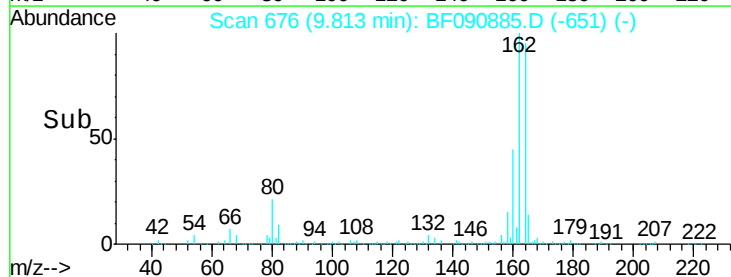
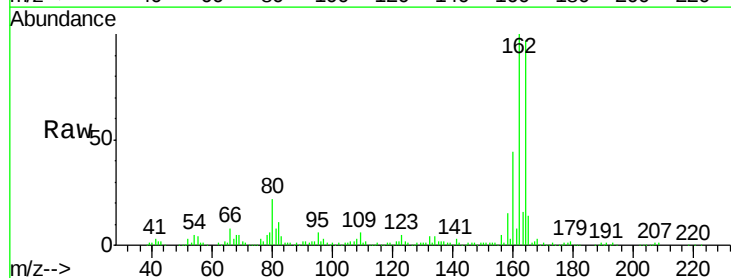
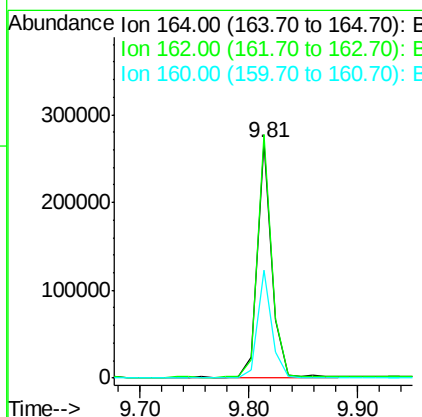
Manual Integrations
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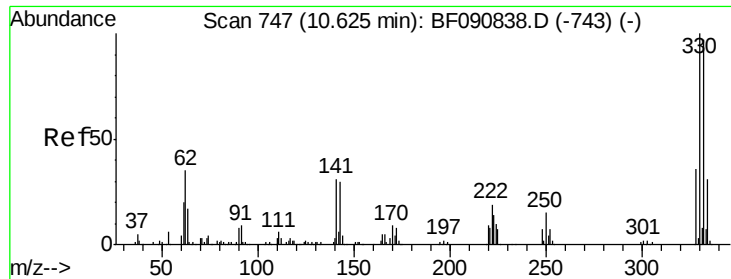
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	251247		
162	103.2		75.2	112.8
160	45.9		31.5	47.3





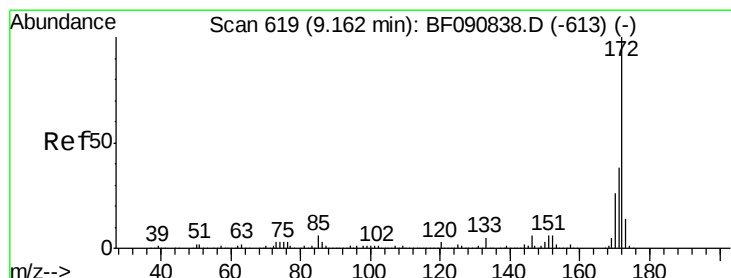
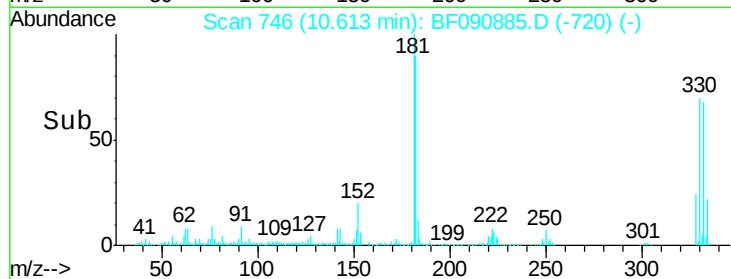
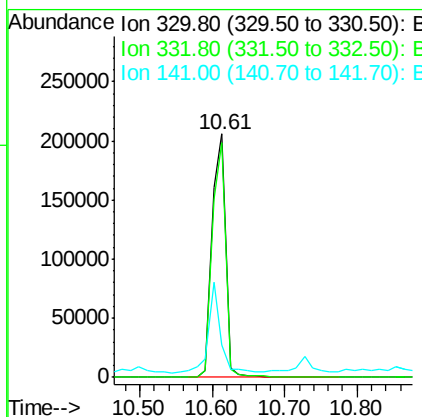
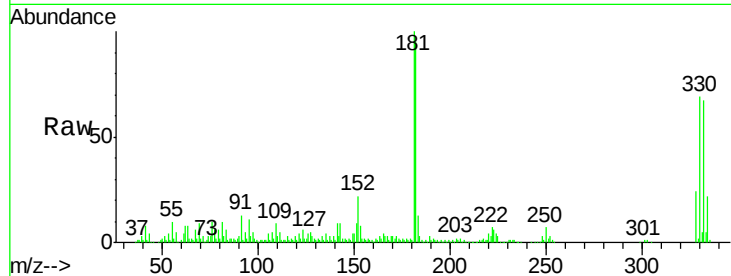
#41
 2,4,6-Tribromophenol
 Concen: 103.35 ng
 RT: 10.61 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: BF090885.D
 Acq: 27 Oct 2016 23:47

Instrument :
 BNA_F
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 SB-2-COMP

Tot Ion	Ratio	Resp	Lower	Upper
330	100	266851		
332	95.7	76.6	114.8	
141	34.1	29.7	44.5	

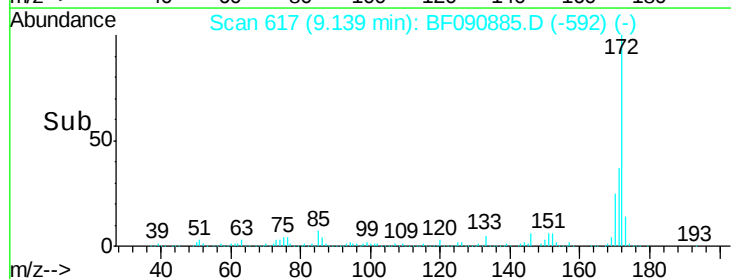
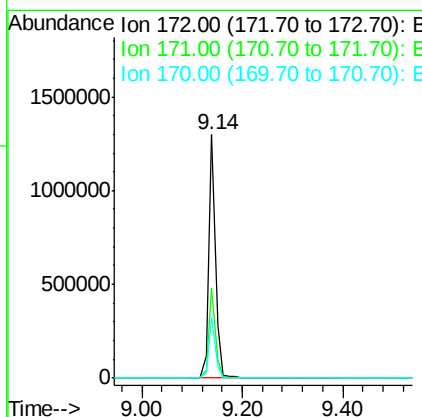
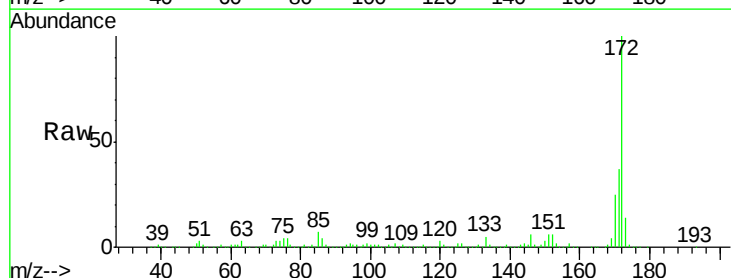
Manual Integrations
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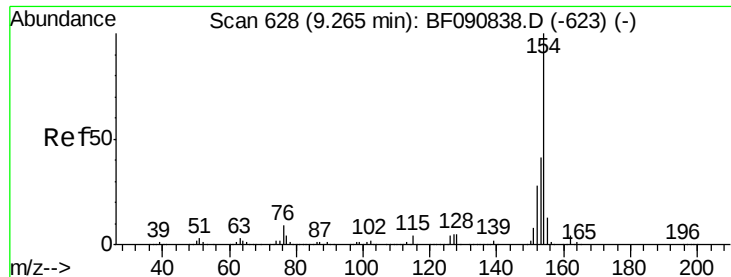
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#44
 2-Fluorobiphenyl
 Concen: 84.23 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF090885.D
 Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1205155		
171	37.1	26.1	39.1	
170	24.8	17.4	26.2	





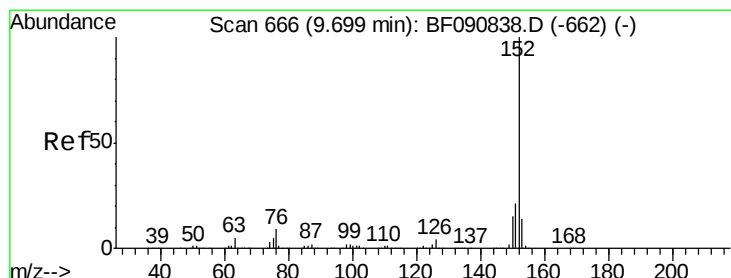
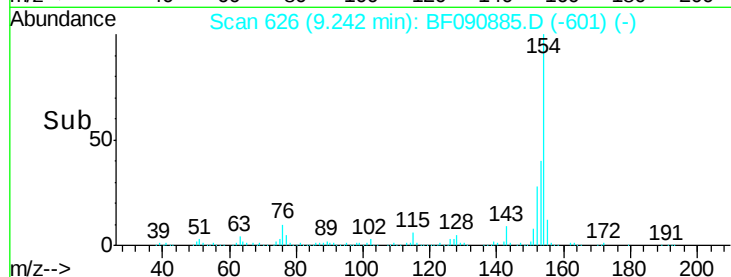
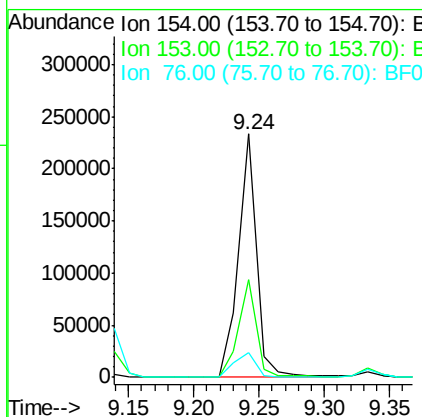
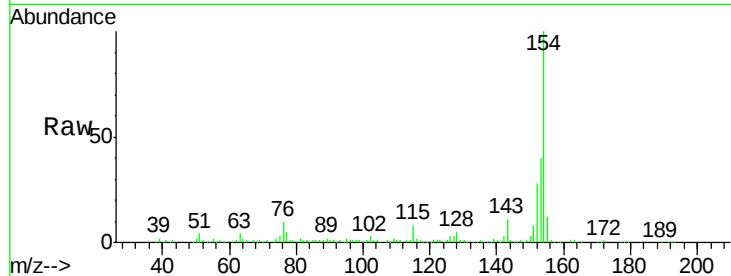
#45
 1,1'-Biphenyl
 Concen: 12.45 ng
 RT: 9.24 min Scan# 626
 Delta R.T. -0.01 min
 Lab File: BF090885.D
 Acq: 27 Oct 2016 23:47

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.1	17.1	57.1	
76	10.3	0.0	31.6	

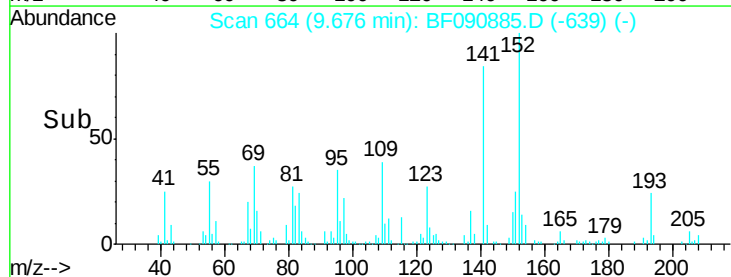
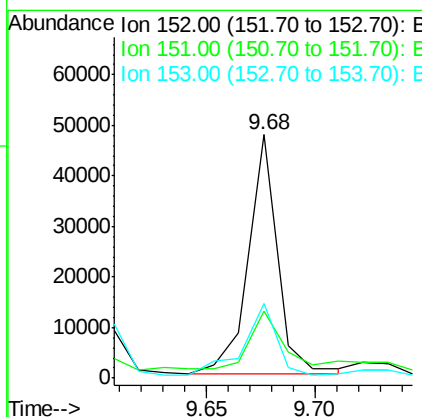
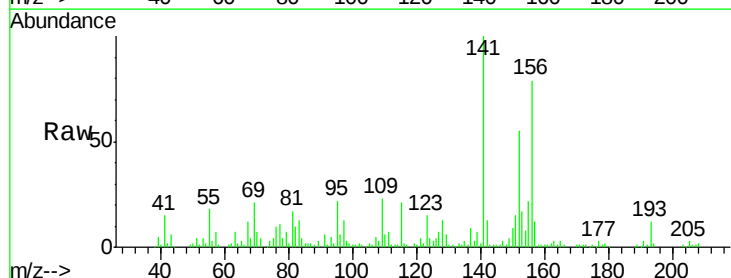
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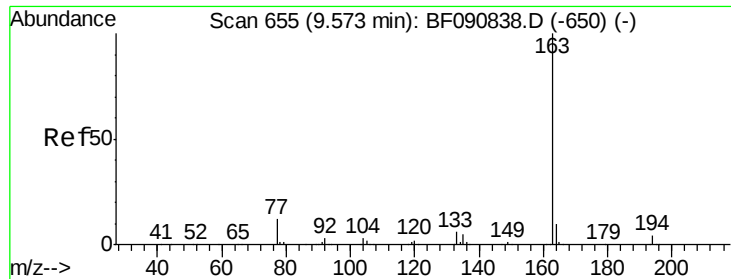
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#48
 Acenaphthylene
 Concen: 2.13 ng
 RT: 9.68 min Scan# 664
 Delta R.T. -0.01 min
 Lab File: BF090885.D
 Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	27.4	14.6	22.0#	
153	30.9	10.3	15.5#	





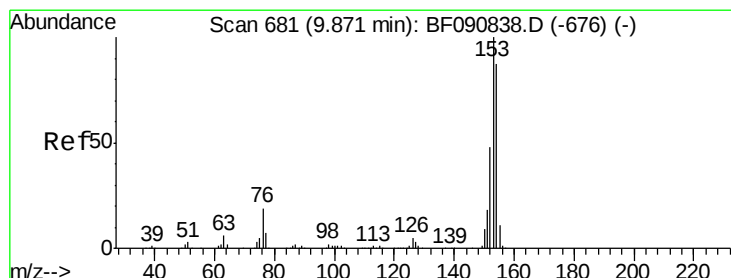
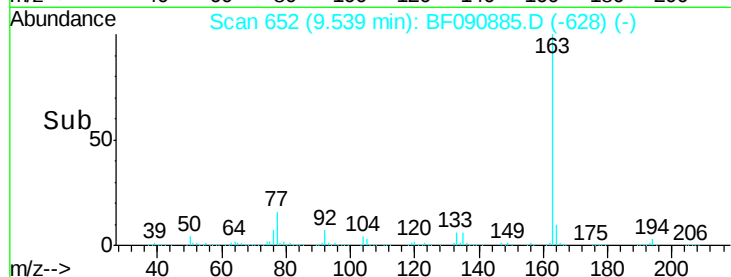
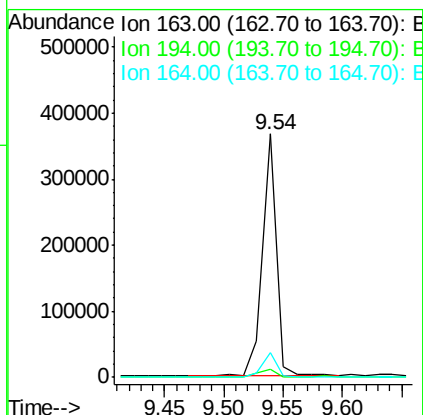
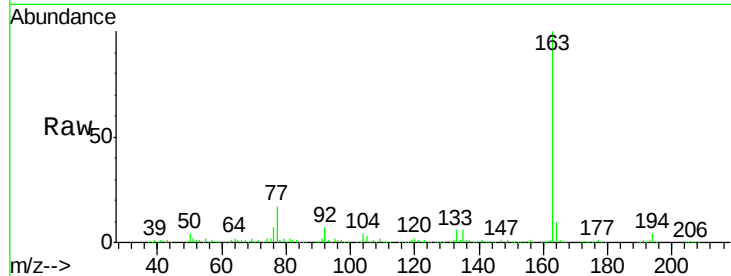
#49
Dimethylphthalate
Concen: 18.14 ng
RT: 9.54 min Scan# 652
Delta R.T. -0.02 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.5	4.4	6.6#
164	10.0	8.3	12.5

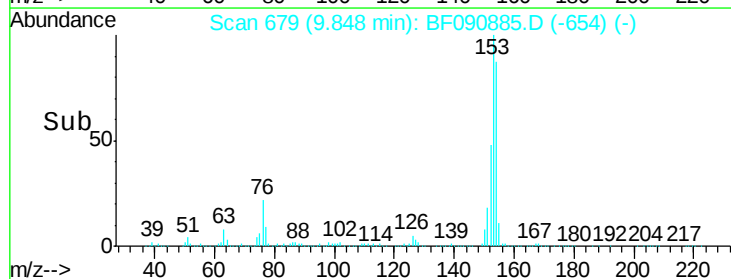
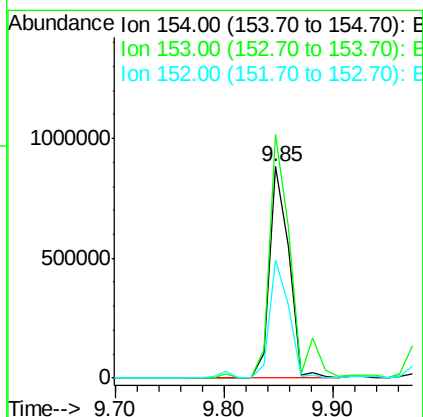
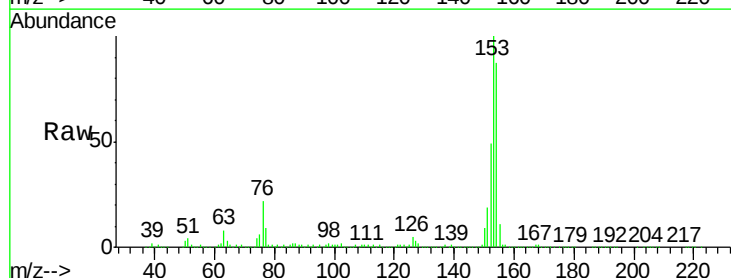
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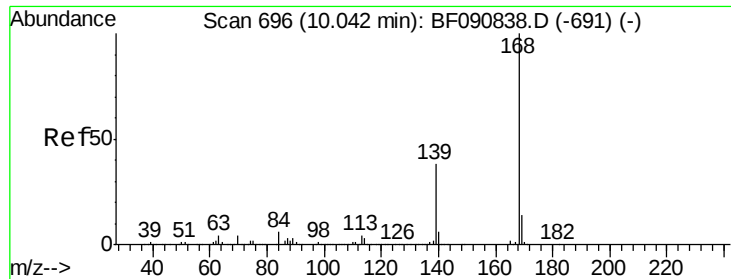
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#51
Acenaphthene
Concen: 75.67 ng
RT: 9.85 min Scan# 679
Delta R.T. -0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.4	82.1	123.1
152	56.0	37.9	56.9





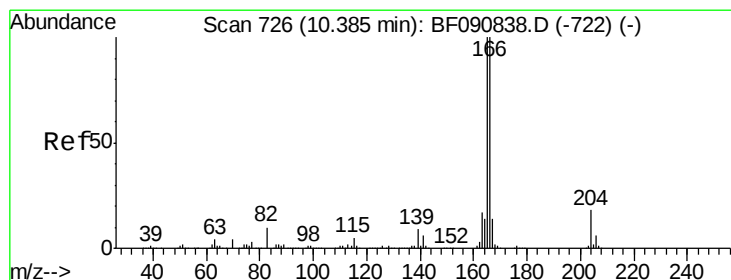
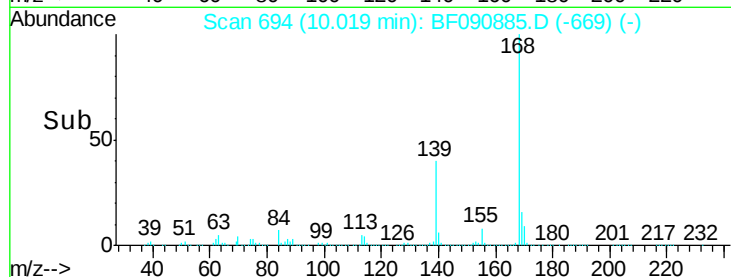
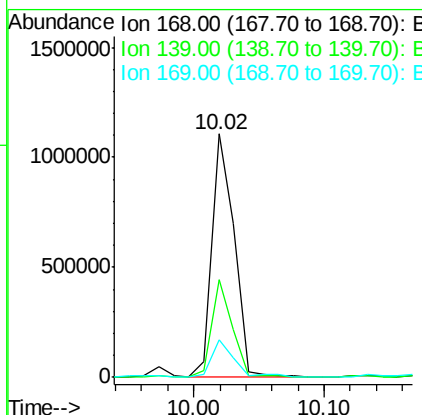
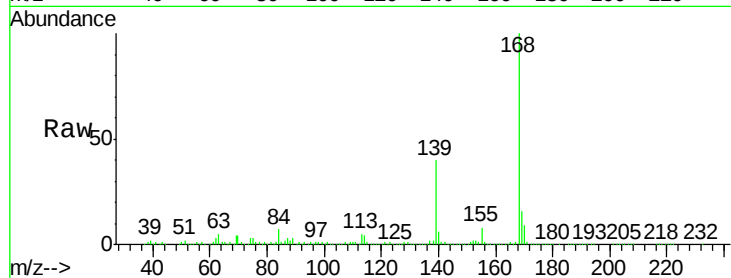
#54
Dibenzenofuran
Concen: 71.07 ng
RT: 10.02 min Scan# 694
Delta R.T. -0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampled :
SB-2-COMP

Tot Ion:168 Resp: 1316632
Ion Ratio Lower Upper
168 100
139 40.1 24.2 36.2#
169 15.6 10.6 15.8

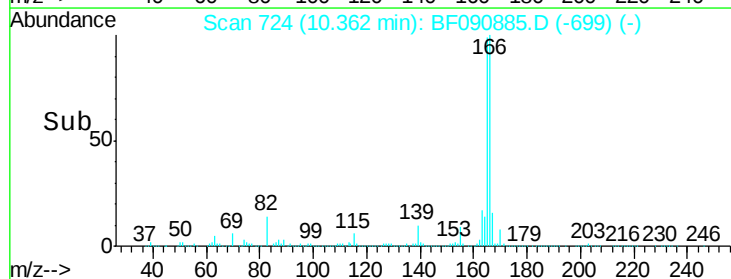
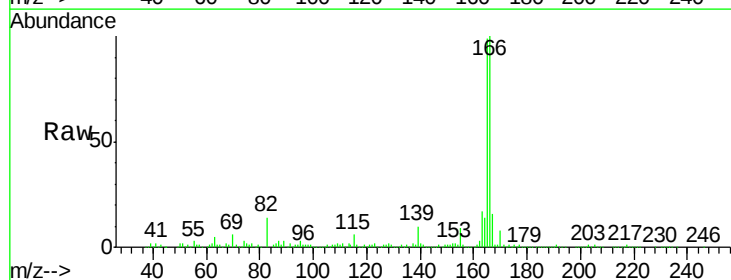
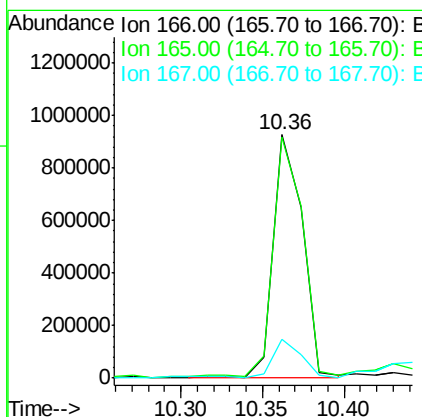
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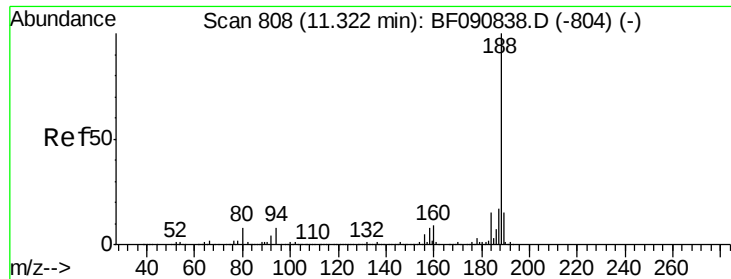
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#57
Fluorene
Concen: 76.02 ng
RT: 10.36 min Scan# 724
Delta R.T. -0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion:166 Resp: 1153644
Ion Ratio Lower Upper
166 100
165 99.0 72.6 109.0
167 16.2 10.6 16.0#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.00 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

Instrument :

BNA_F

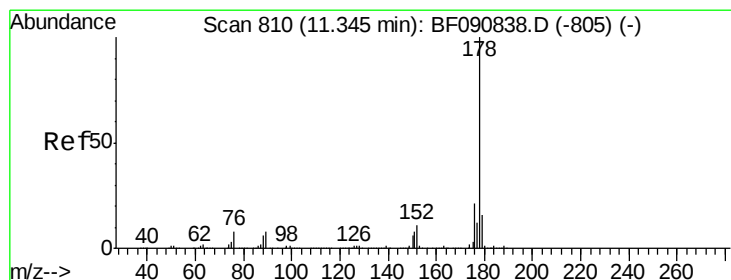
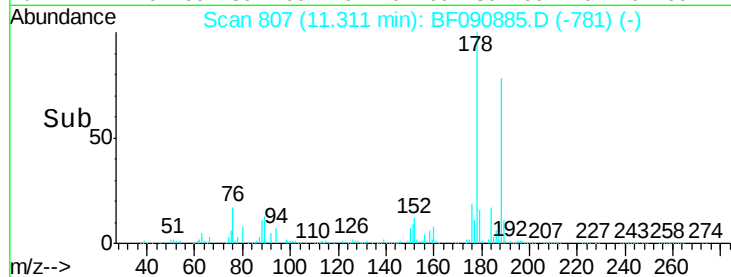
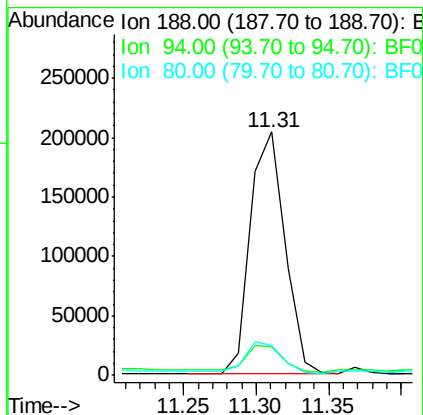
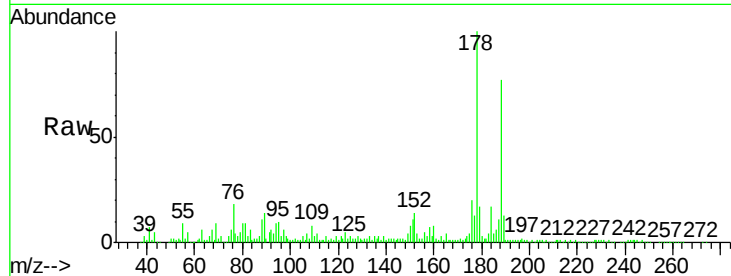
ClientSampleId :

SB-2-COMP

Tot Ion:	188	Resp:	337936
Ion Ratio	Lower	Upper	
188	100		
94	11.7	11.1	16.7
80	12.2	11.0	16.4

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#70

Phenanthrene

Concen: 378.35 ng

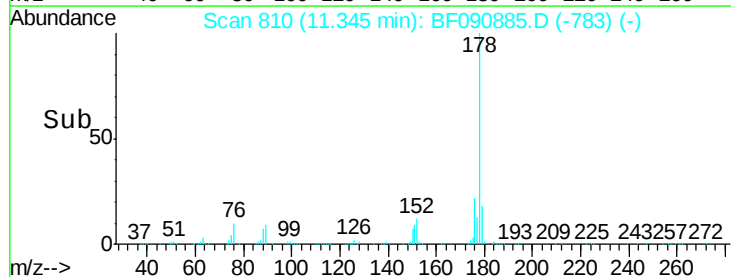
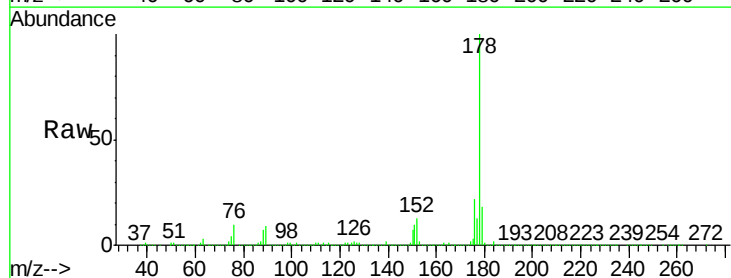
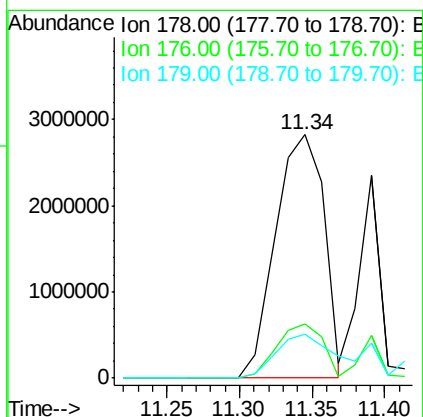
RT: 11.34 min Scan# 810

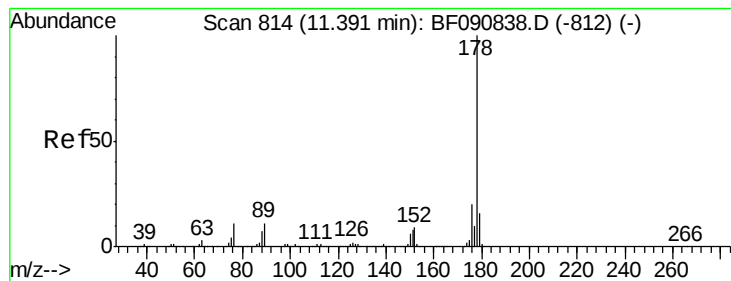
Delta R.T. 0.01 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

Tgt Ion:	178	Resp:	6511046
Ion Ratio	Lower	Upper	
178	100		
176	22.3	13.8	20.8#
179	17.9	12.2	18.2





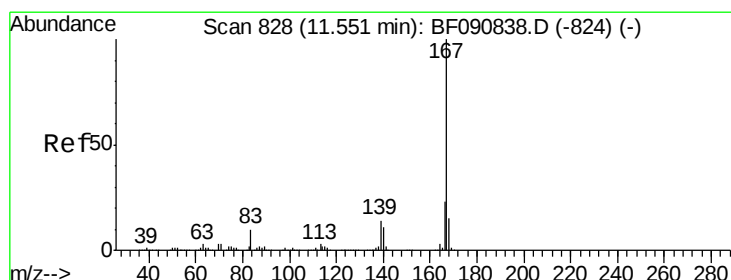
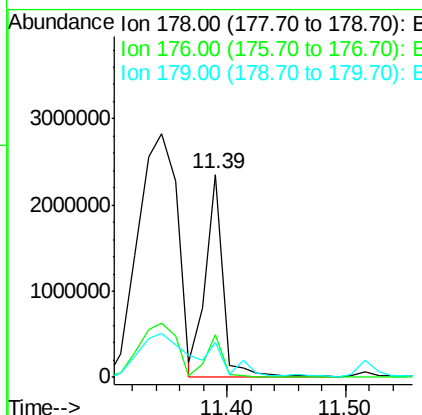
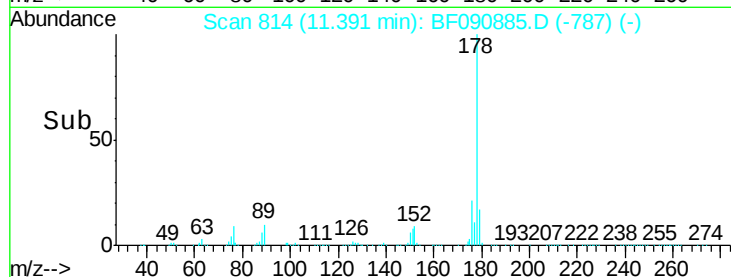
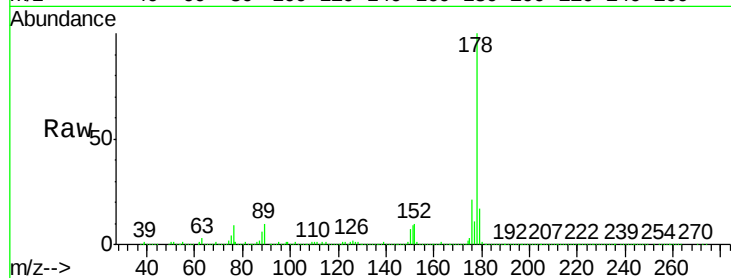
#71
 Anthracene
 Concen: 132.18 ng
 RT: 11.39 min Scan# 814
 Delta R.T. 0.01 min
 Lab File: BF090885.D
 Acq: 27 Oct 2016 23:47

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tot Ion:178 Resp: 2395344
 Ion Ratio Lower Upper
 178 100
 176 21.0 14.1 21.1
 179 17.2 12.2 18.2

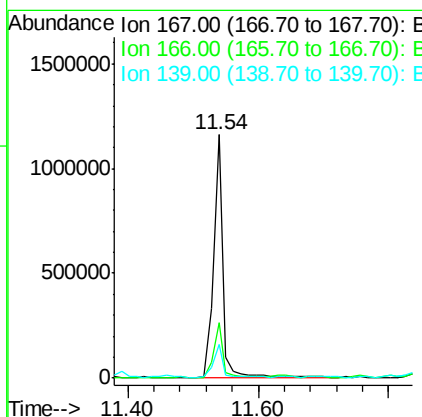
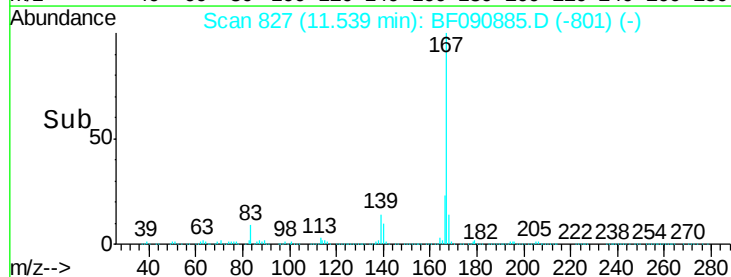
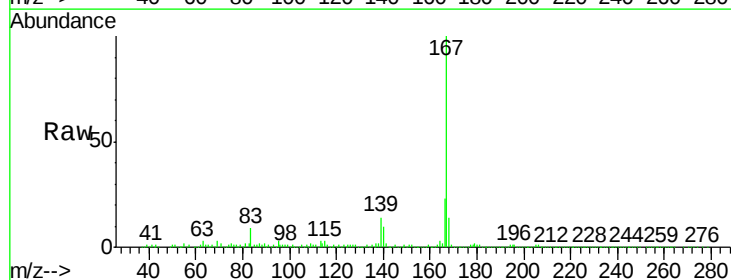
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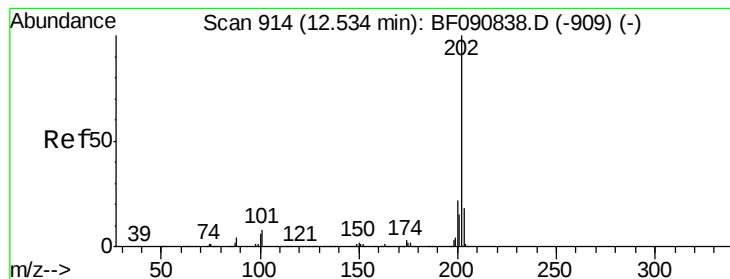
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#72
 Carbazole
 Concen: 73.72 ng
 RT: 11.54 min Scan# 827
 Delta R.T. 0.00 min
 Lab File: BF090885.D
 Acq: 27 Oct 2016 23:47

Tgt Ion:167 Resp: 1179699
 Ion Ratio Lower Upper
 167 100
 166 22.8 15.7 23.5
 139 13.8 9.5 14.3





#74

Fluoranthene

Concen: 295.49 ng

RT: 12.53 min Scan# 914

Delta R.T. 0.01 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

Instrument :

BNA_F

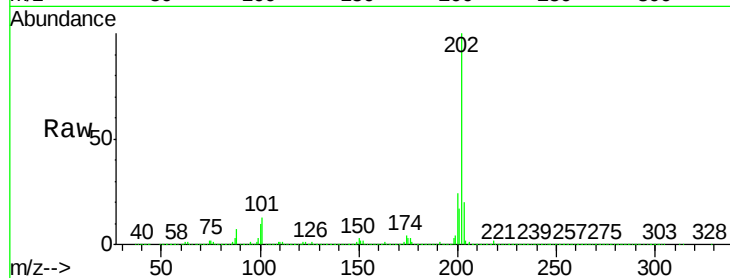
ClientSampleId :

SB-2-COMP

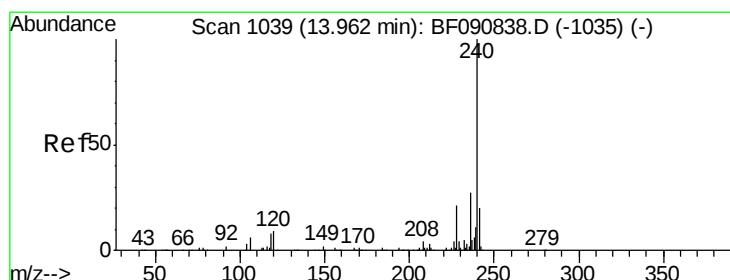
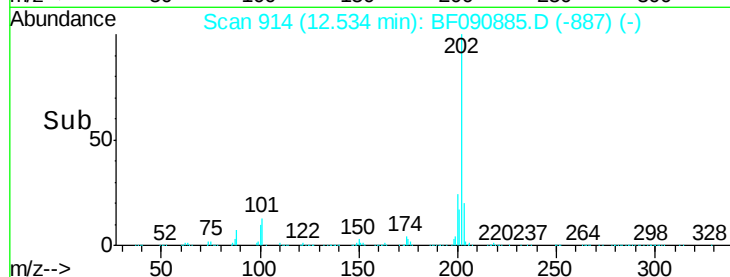
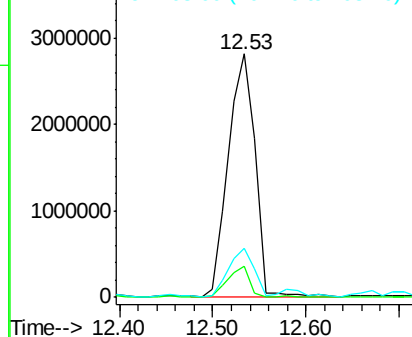
Tot Ion:	202	Resp:	5568808
Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	38.3
203	20.0	0.0	37.3

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

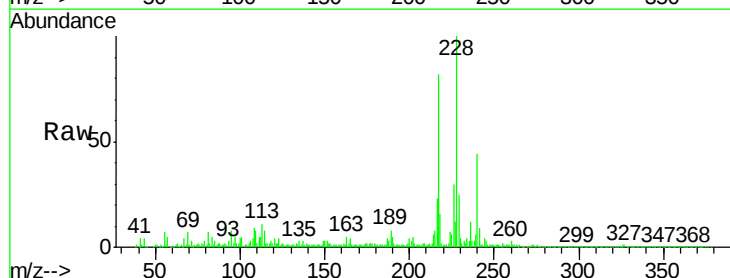
RT: 13.96 min Scan# 1039

Delta R.T. 0.01 min

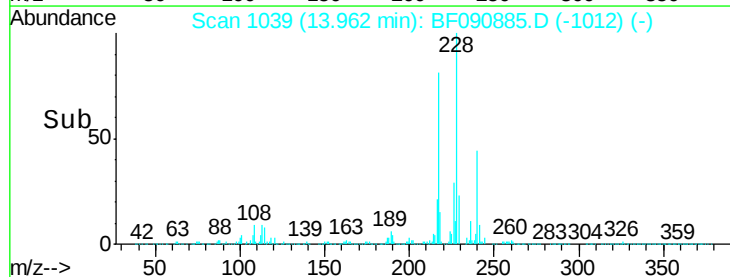
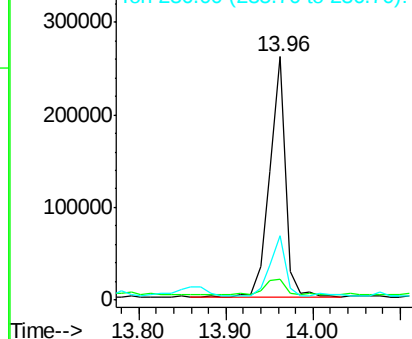
Lab File: BF090885.D

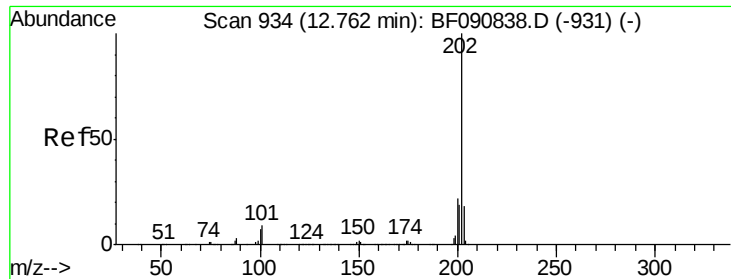
Acq: 27 Oct 2016 23:47

Tgt Ion:	240	Resp:	329485
Ion	Ratio	Lower	Upper
240	100		
120	8.6	16.2	24.2#
236	26.7	18.4	27.6



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 219.25 ng

RT: 12.76 min Scan# 934

Delta R.T. 0.01 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

Instrument :

BNA_F

ClientSampleId :

SB-2-COMP

Tot Ion:202 Resp: 4571645

Ion Ratio Lower Upper

202 100

200 24.0 15.0 22.4#

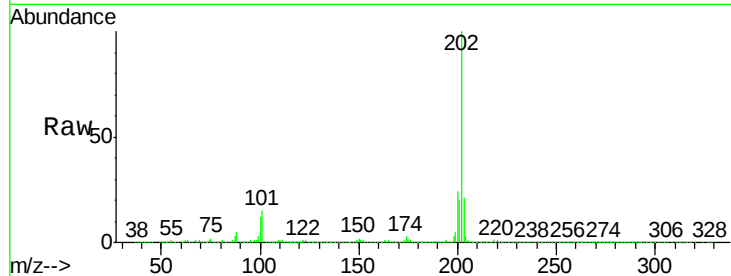
203 21.3 14.1 21.1#

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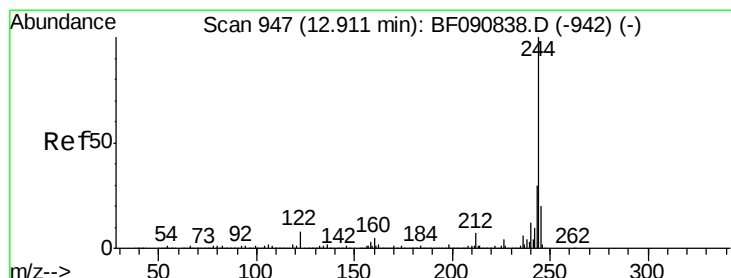
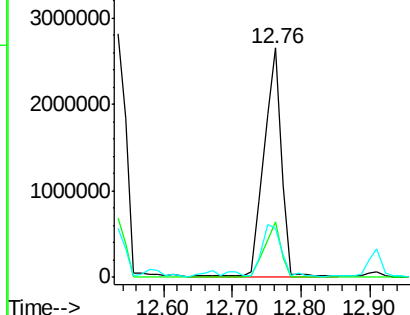
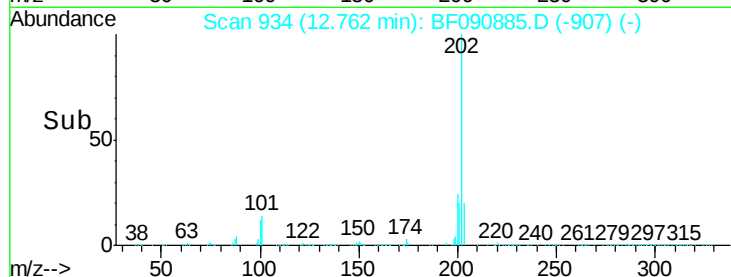
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 74.35 ng

RT: 12.89 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

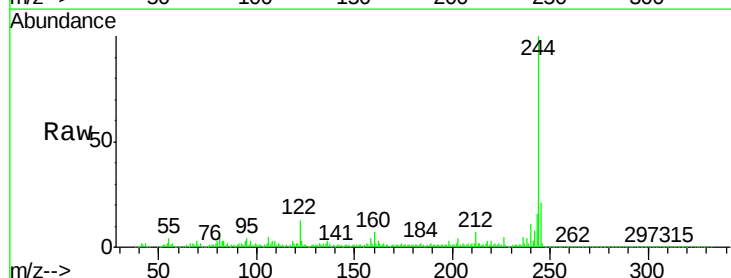
Tgt Ion:244 Resp: 972294

Ion Ratio Lower Upper

244 100

212 6.9 4.3 6.5#

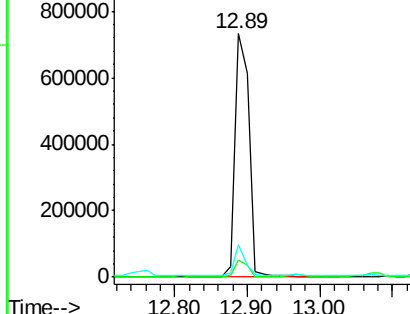
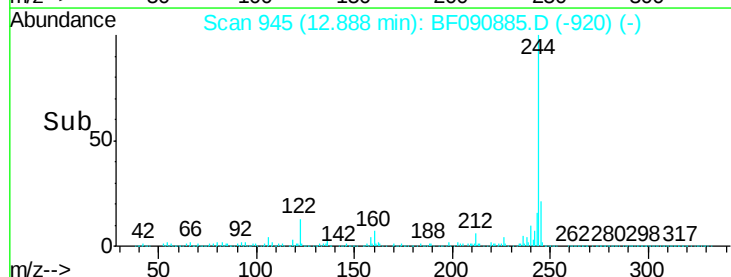
122 13.4 17.4 26.2#

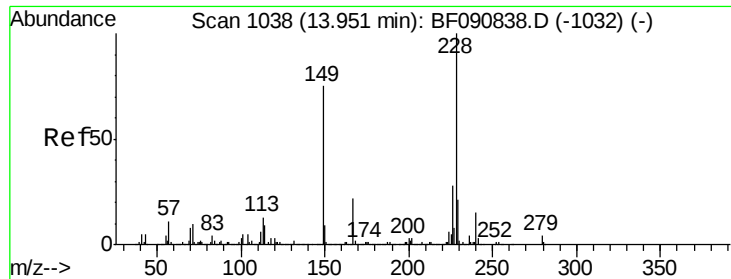


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





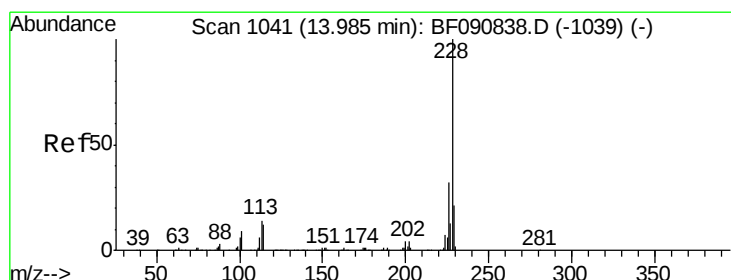
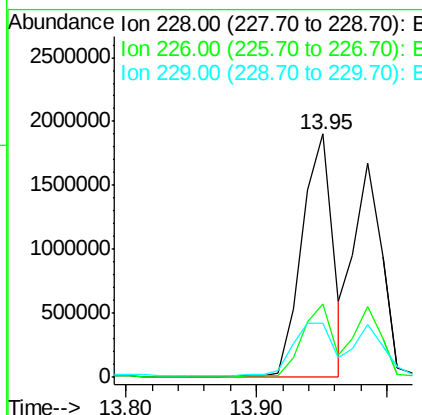
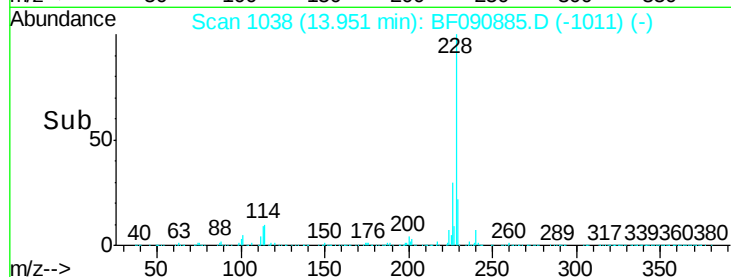
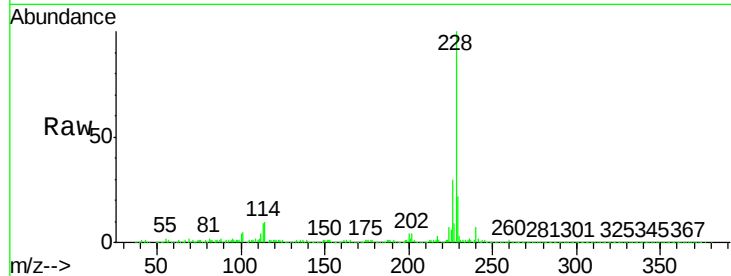
#80
Benzo(a)anthracene
Concen: 177.81 ng
RT: 13.95 min Scan# 1038
Delta R.T. 0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tot Ion:228 Resp: 3109260
Ion Ratio Lower Upper
228 100
226 30.1 20.0 30.0#
229 22.5 15.4 23.2

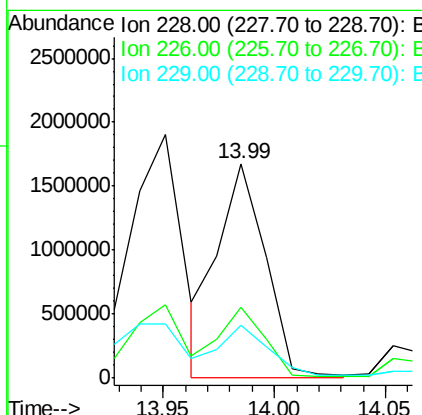
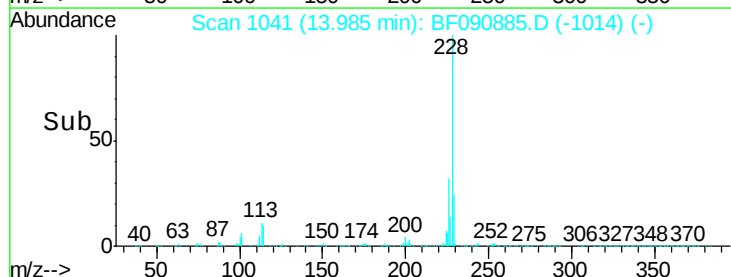
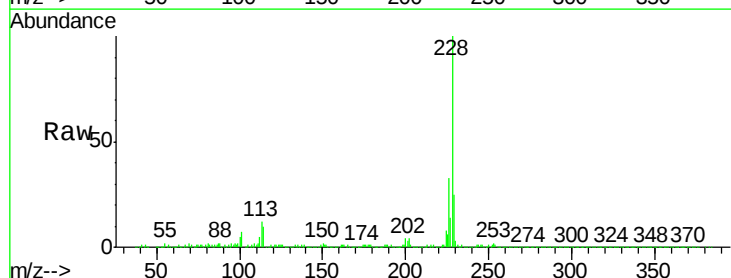
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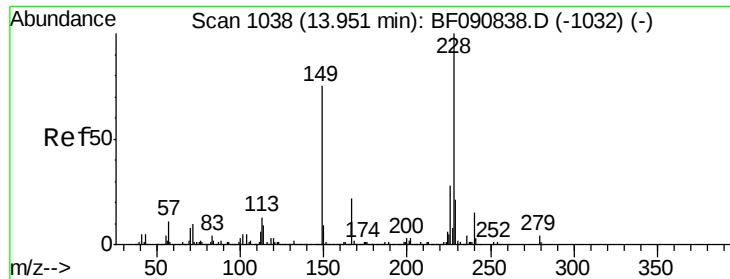
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#82
Chrysene
Concen: 143.72 ng m
RT: 13.99 min Scan# 1041
Delta R.T. 0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion:228 Resp: 2541951
Ion Ratio Lower Upper
228 100
226 32.8 21.0 31.4#
229 24.5 15.6 23.4#





#83

Bis(2-ethylhexyl)phthalate

Concen: 3.95 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BF090885.D

Acq: 27 Oct 2016 23:47

Instrument :

BNA_F

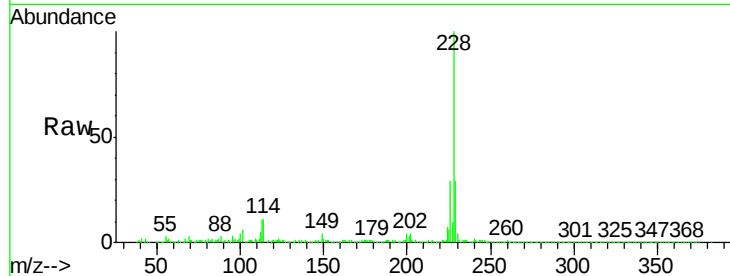
ClientSampleId :

SB-2-COMP

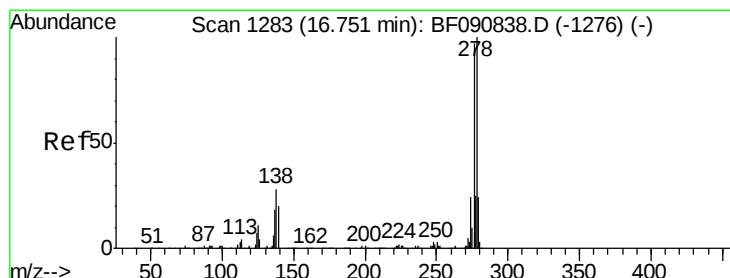
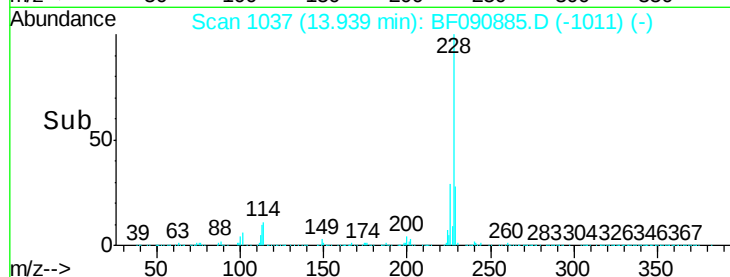
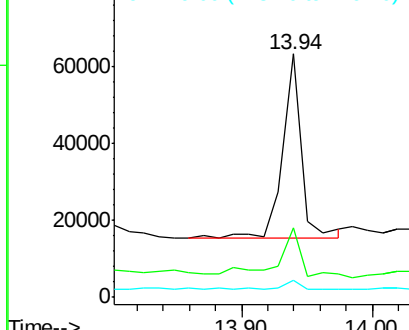
Tot Ion	Ratio	Lower	Upper
149	100		
167	28.4	24.2	36.2
279	7.0	3.8	5.6

Manual Integrations
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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 81.64 ng

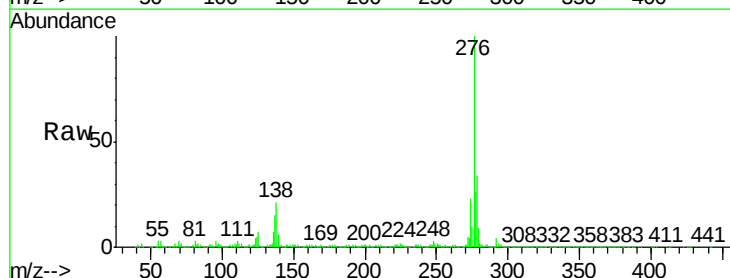
RT: 16.75 min Scan# 1283

Delta R.T. 0.03 min

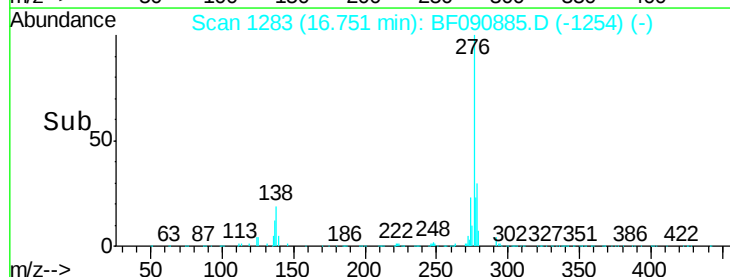
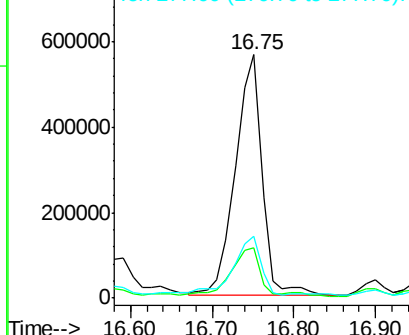
Lab File: BF090885.D

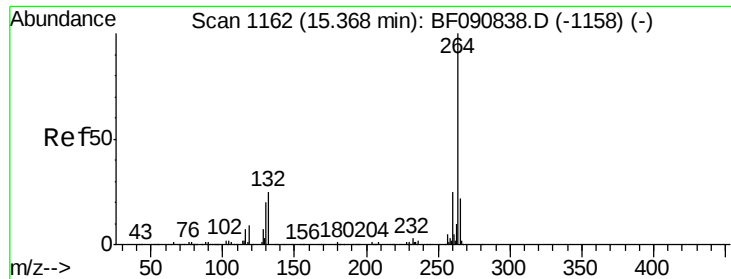
Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.0	25.7	38.5
277	26.3	15.6	23.4



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





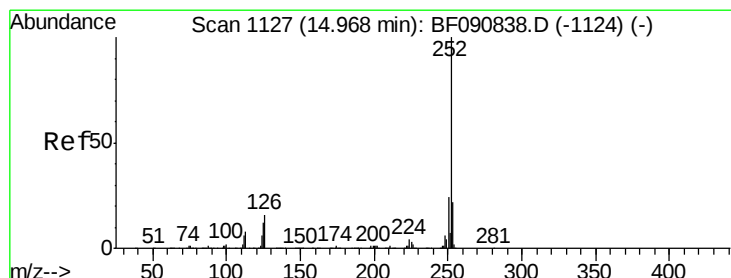
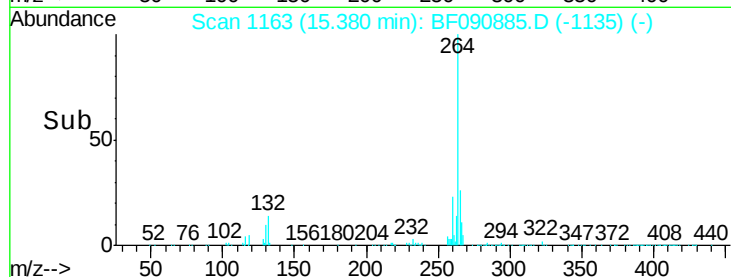
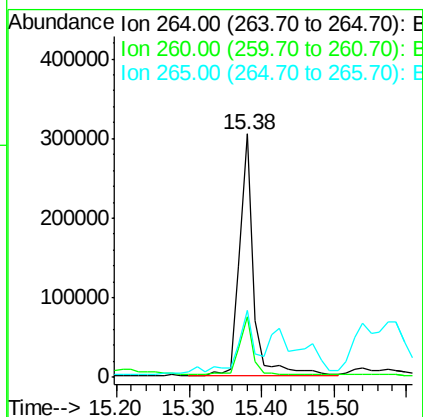
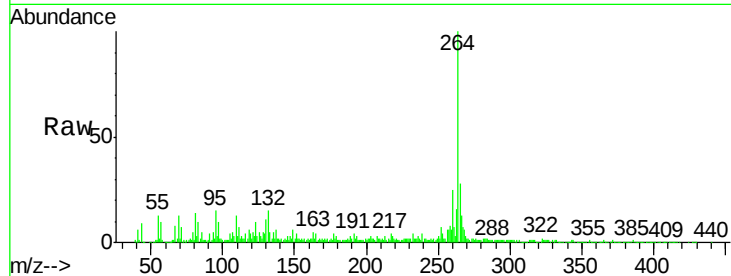
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.38 min Scan# 1163
Delta R.T. 0.02 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	16.7	25.1
265	27.6	17.2	25.8

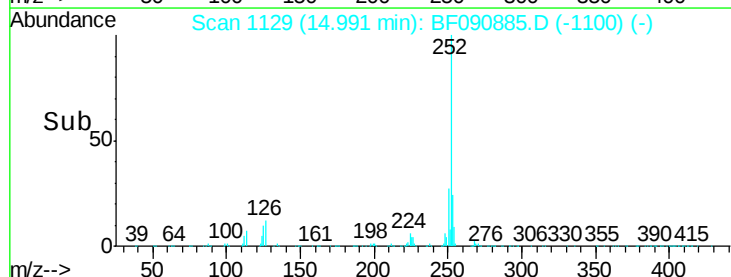
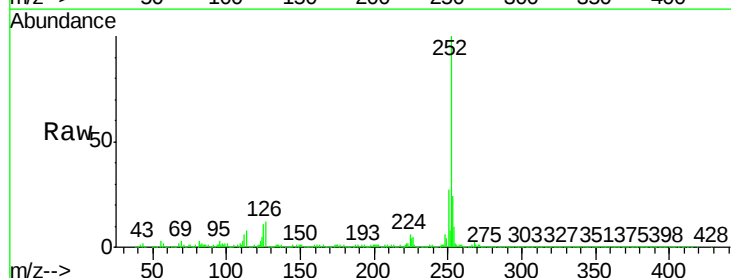
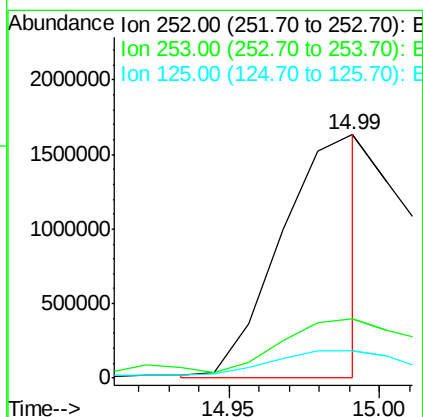
Manual Integrations
APPROVED

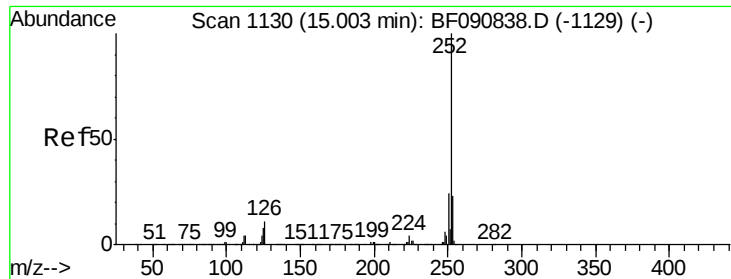
sohil
10/28/2016 5:23:00 PM



#87
Benzo(b)fluoranthene
Concen: 115.02 ng m
RT: 14.99 min Scan# 1129
Delta R.T. 0.03 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	11.4	17.1	25.7





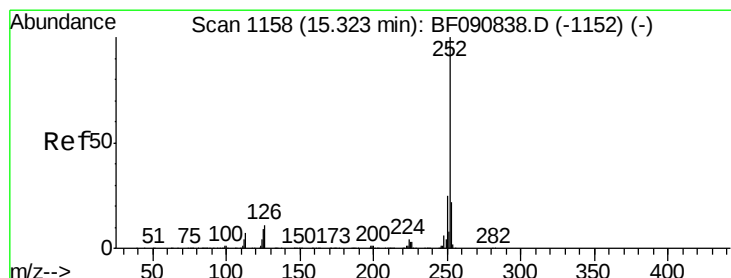
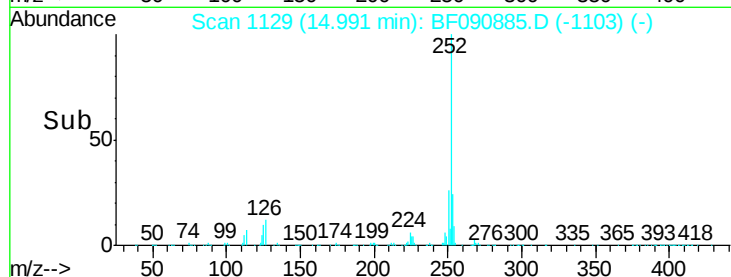
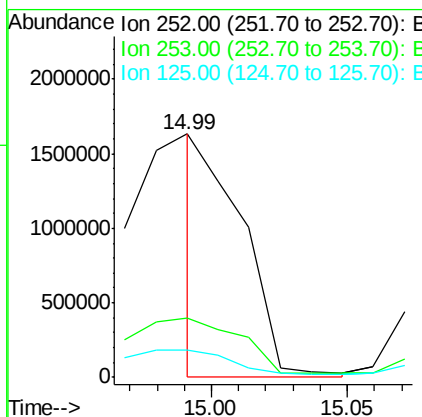
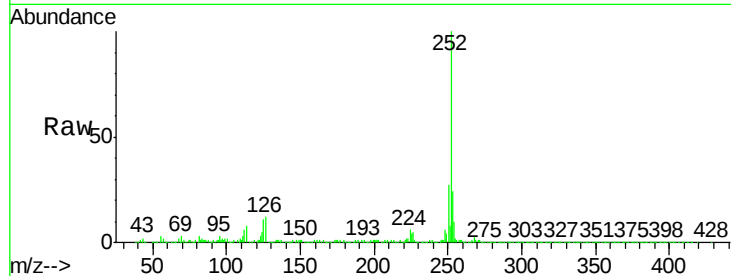
#88
Benzo(k)fluoranthene
Concen: 78.34 ng m
RT: 14.99 min Scan# 1129
Delta R.T. -0.00 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tot Ion:252 Resp: 1685065
Ion Ratio Lower Upper
252 100
253 24.2 17.0 25.4
125 11.4 16.0 24.0#

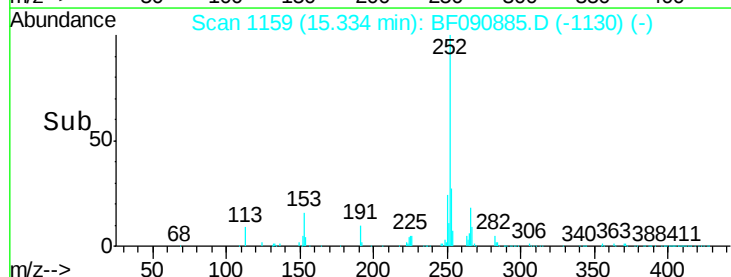
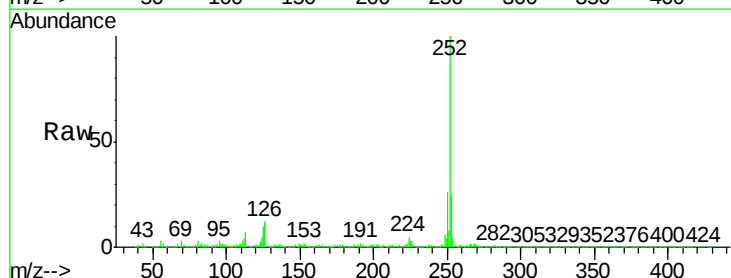
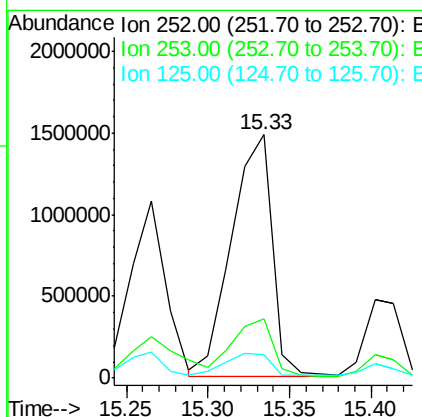
Manual Integrations
APPROVED

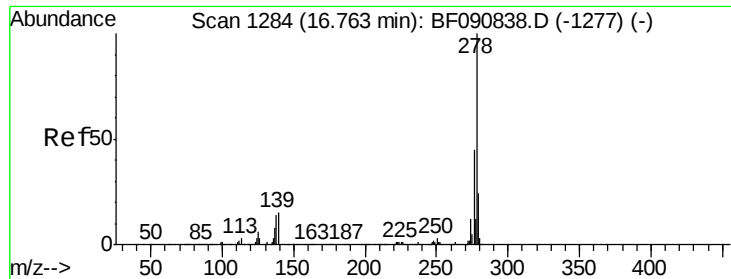
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10/28/2016 5:23:00 PM



#89
Benzo(a)pyrene
Concen: 109.51 ng
RT: 15.33 min Scan# 1159
Delta R.T. 0.03 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion:252 Resp: 2561150
Ion Ratio Lower Upper
252 100
253 24.6 17.2 25.8
125 9.5 18.0 27.0#





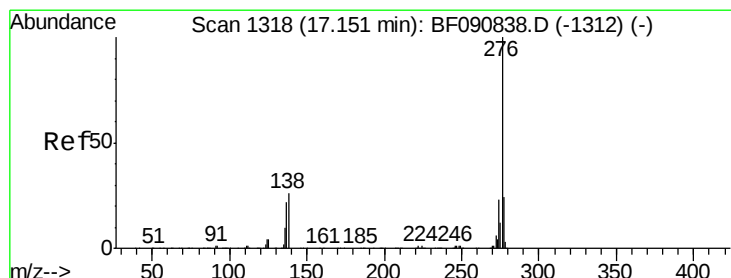
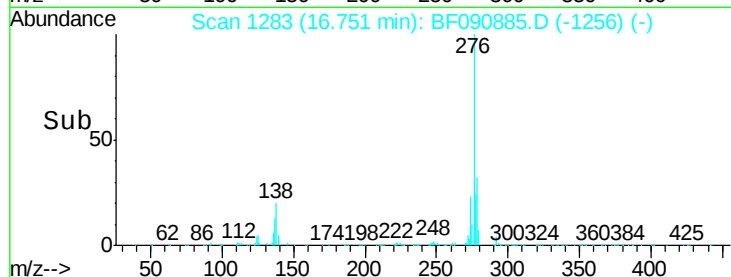
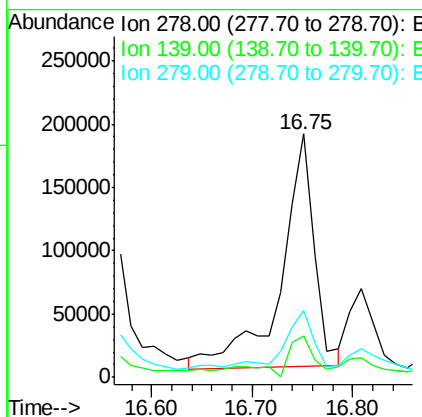
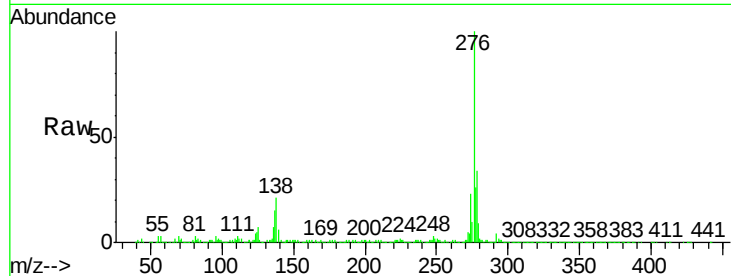
#90
Dibenzo(a,h)anthracene
Concen: 21.48 ng
RT: 16.75 min Scan# 1283
Delta R.T. 0.01 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.2	26.3	39.5#
279	27.6	18.2	27.4#

Manual Integrations
APPROVED

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10/28/2016 5:23:00 PM



#91
Benzo(g,h,i)perylene
Concen: 56.72 ng
RT: 17.16 min Scan# 1319
Delta R.T. 0.03 min
Lab File: BF090885.D
Acq: 27 Oct 2016 23:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.8	26.6
138	22.3	34.6	51.8#

