

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
 Data File : BF093947.D
 Acq On : 27 Mar 2017 16:49
 Operator : SJ/MA
 Sample : I2364-01DL 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-10DL

Manual Integrations
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Quant Time: Mar 27 17:28:50 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.95	152	171086	20.00	ng	0.00
21) Naphthalene-d8	7.46	136	666154	20.00	ng	0.00
38) Acenaphthene-d10	9.60	164	267940	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	398523	20.00	ng	0.00
75) Chrysene-d12	14.67	240	313215	20.00	ng	0.00
86) Perylene-d12	16.31	264	258659	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.47	112	30444	3.01	ng	0.00
7) Phenol-d6	5.53	99	73772	5.89	ng	-0.02
23) Nitrobenzene-d5	6.59	82	41557	3.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	3161	1.49	ng	-0.01
44) 2-Fluorobiphenyl	8.77	172	97018	5.52	ng	0.00
78) Terphenyl-d14	13.39	244	56657	4.05	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.48	128	1316634	41.11	ng	100
37) 2-Methylnaphthalene	8.32	142	401586	18.81	ng	98
45) 1,1'-Biphenyl	8.89	154	111123	5.14	ng	98
48) Acenaphthylene	9.42	152	450846	16.04	ng	100
51) Acenaphthene	9.63	154	72529	4.42	ng	99
54) Dibenzofuran	9.85	168	165998	7.43	ng	99
57) Fluorene	10.27	166	288823	15.59	ng	97
70) Phenanthrene	11.46	178	1087655	49.06	ng	98
71) Anthracene	11.52	178	403308	17.67	ng	97
72) Carbazole	11.71	167	68980	2.95	ng	97
74) Fluoranthene	12.92	202	728136	32.08	ng	98
77) Pyrene	13.19	202	879243	38.68	ng	99
80) Benzo(a)anthracene	14.66	228	283214m	15.51	ng	
82) Chrysene	14.70	228	249402	14.71	ng	97
85) Indeno(1,2,3-cd)pyrene	17.68	276	97944	6.67	ng	96
87) Benzo(b)fluoranthene	15.90	252	256136m	16.16	ng	
88) Benzo(k)fluoranthene	15.92	252	71236m	4.59	ng	
89) Benzo(a)pyrene	16.24	252	214681	14.70	ng	97
91) Benzo(a,h,i)perylene	18.09	276	111506	8.95	ng	96

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

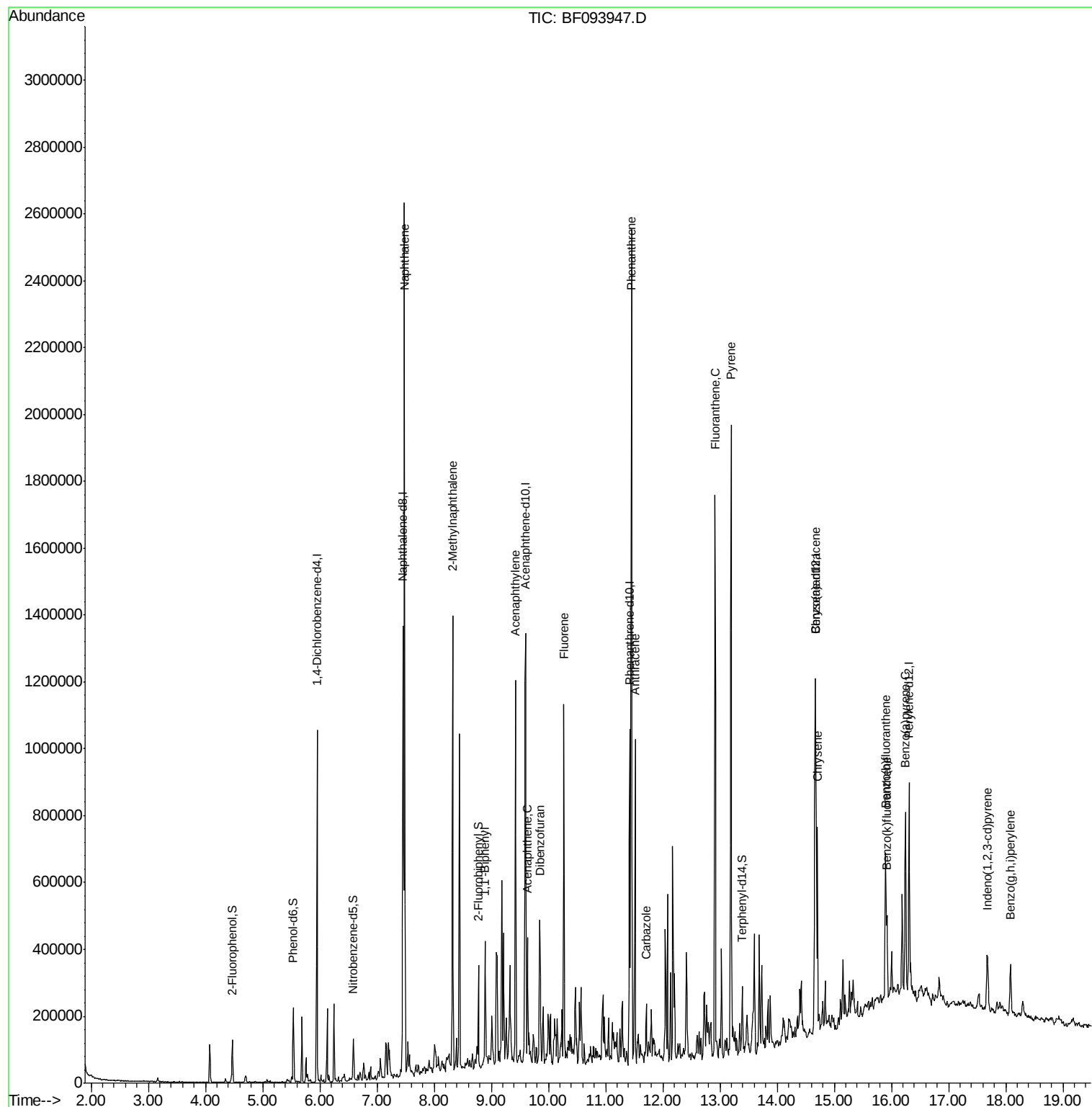
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#1

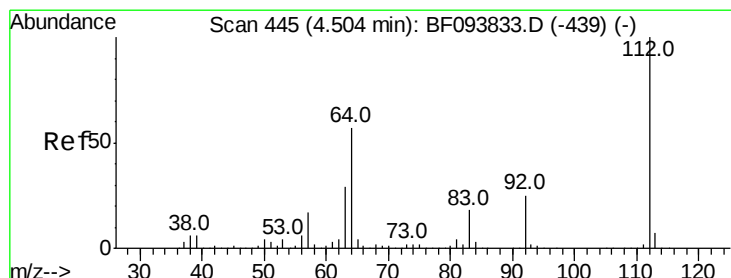
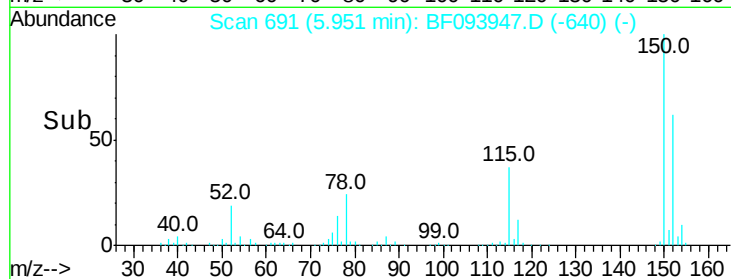
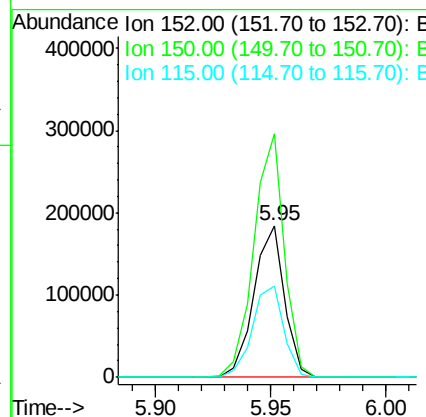
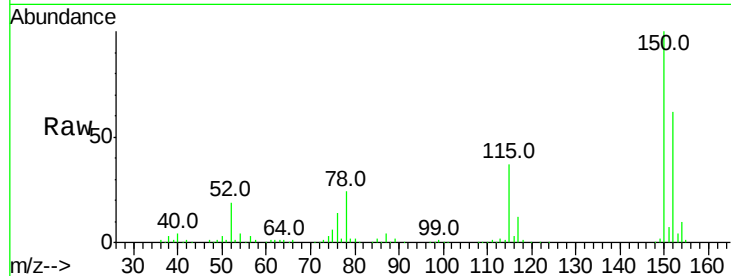
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.95 min Scan# 691
Delta R.T. 0.00 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.4	126.2	189.2
115	59.8	52.2	78.2

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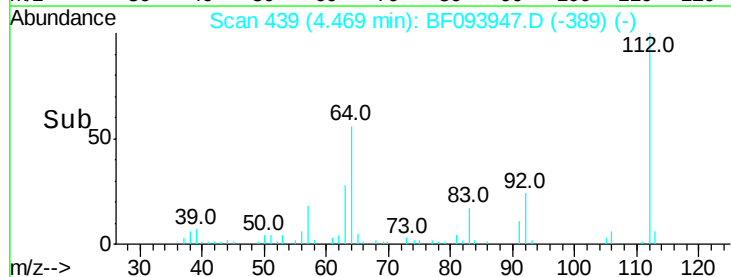
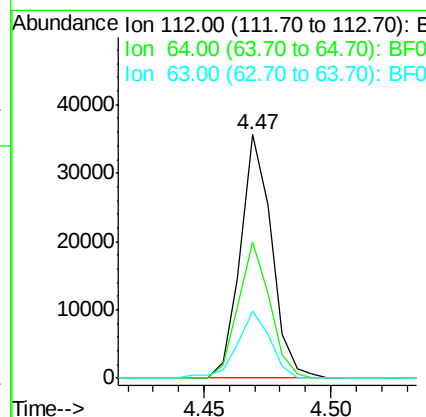
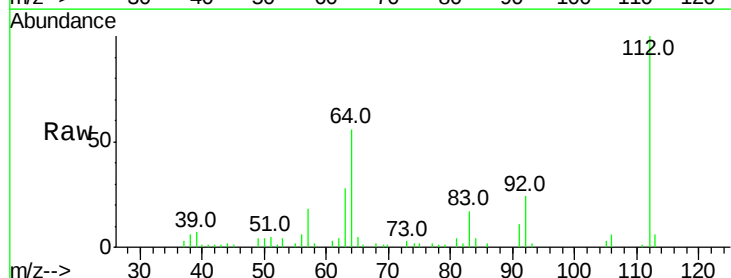
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#5

2-Fluorophenol
Concen: 3.01 ng
RT: 4.47 min Scan# 439
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	46.0	69.0
63	27.7	23.4	35.0





#7

Phenol-d6

Concen: 5.89 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Instrument :

BNA_F

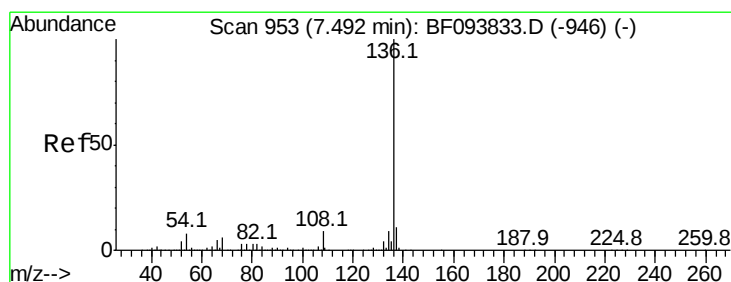
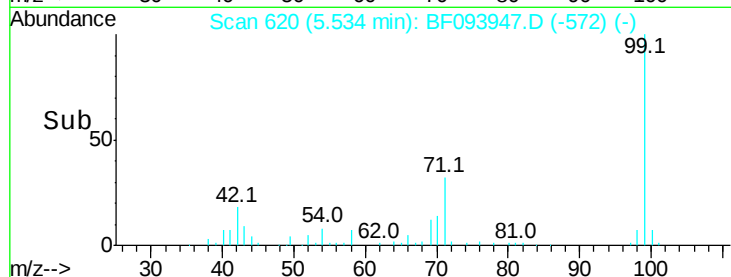
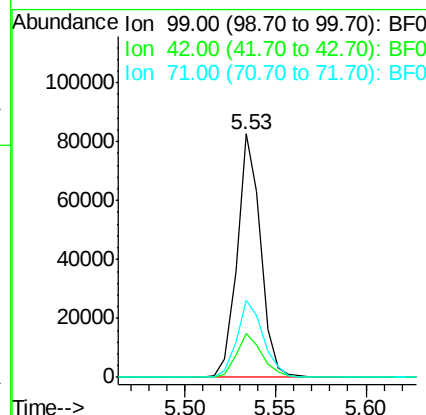
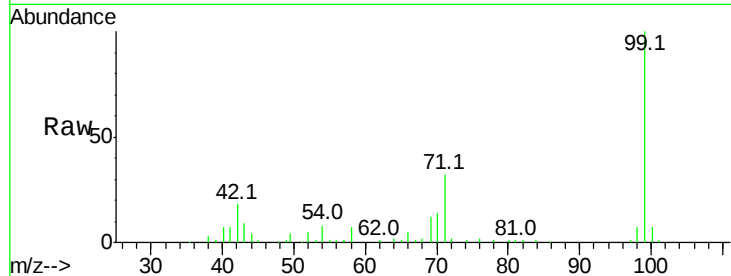
ClientSampleId :

WC-COMP-10DL

Tot Ion:	99	Resp:	73772
Ion Ratio	Lower	Upper	
99	100		
42	18.2	13.5	20.3
71	31.9	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

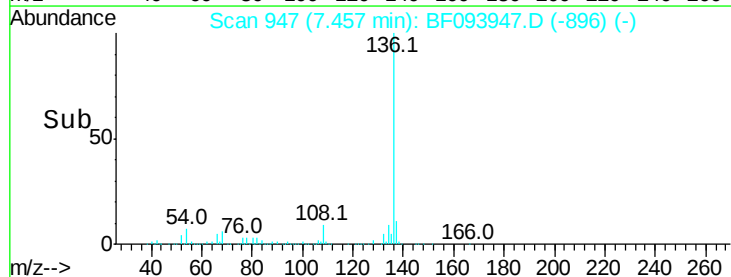
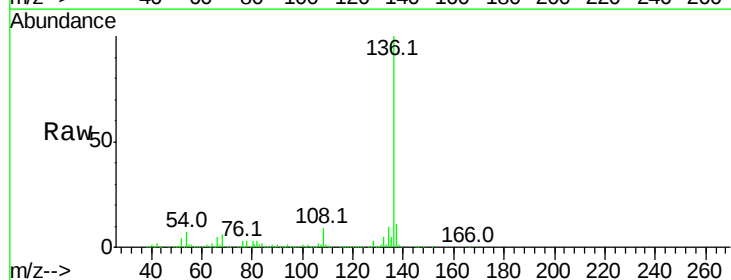
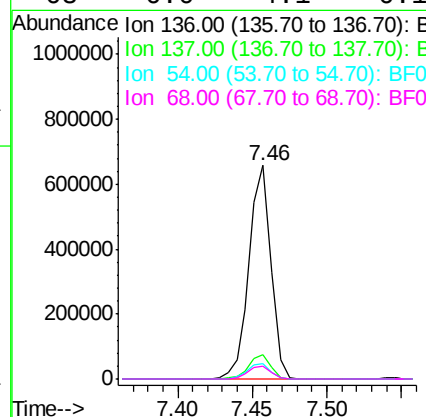
RT: 7.46 min Scan# 947

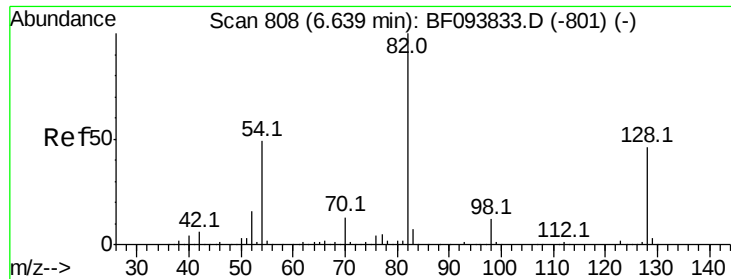
Delta R.T. 0.00 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Tgt Ion:	136	Resp:	666154
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	7.4	4.9	7.3#
68	6.0	4.1	6.1





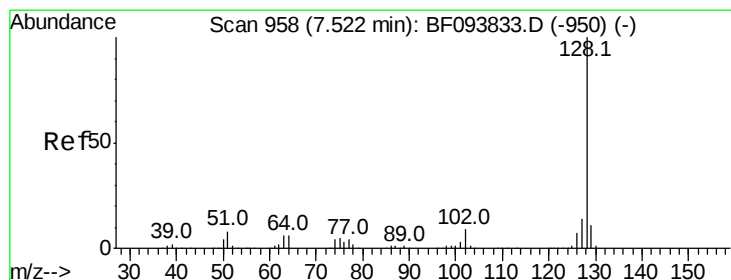
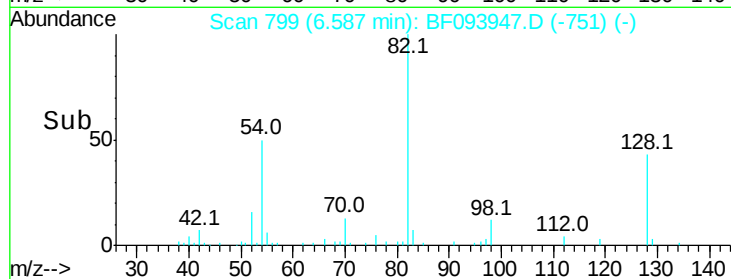
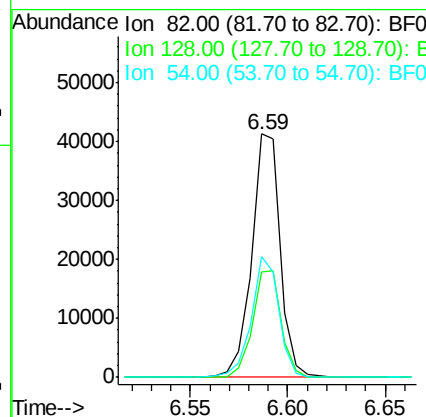
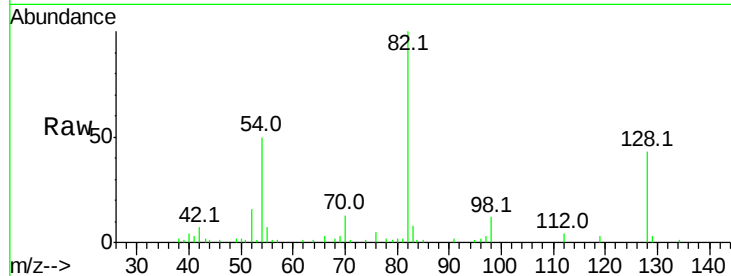
#23
Nitrobenzene-d5
Concen: 3.56 ng
RT: 6.59 min Scan# 799
Delta R.T. -0.02 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.4	34.0	51.0
54	49.7	42.2	63.2

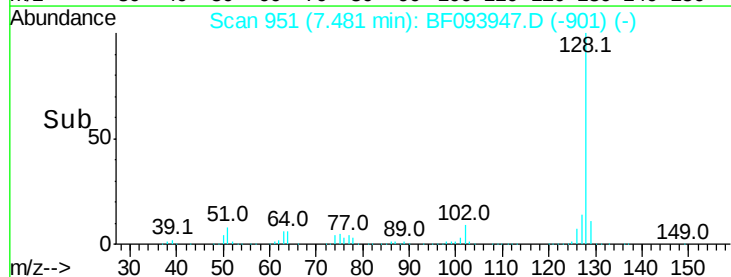
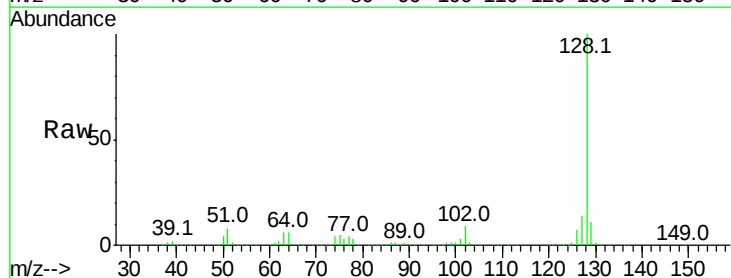
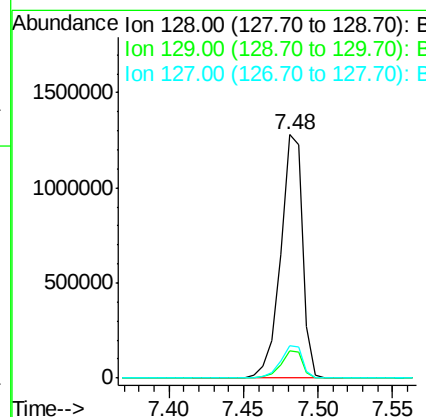
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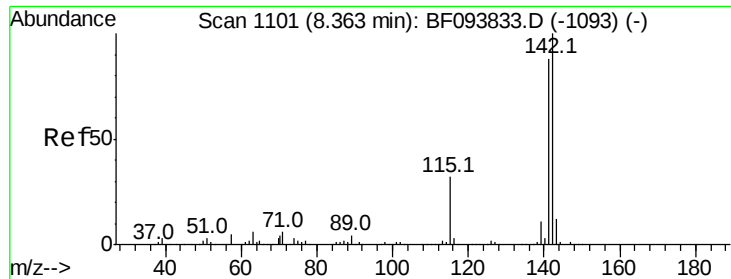
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#31
Naphthalene
Concen: 41.11 ng
RT: 7.48 min Scan# 951
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.6	10.8	16.2





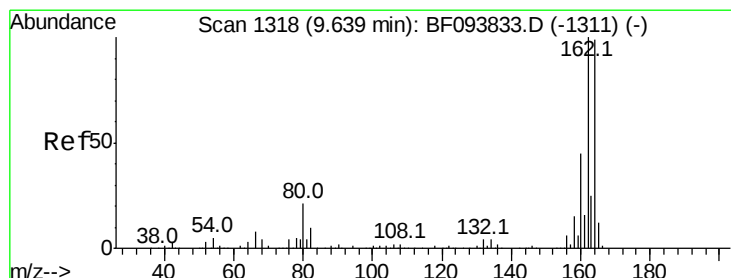
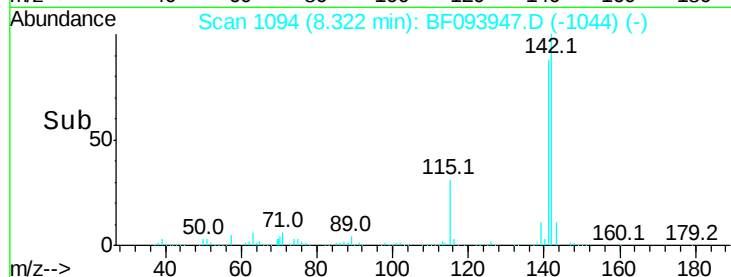
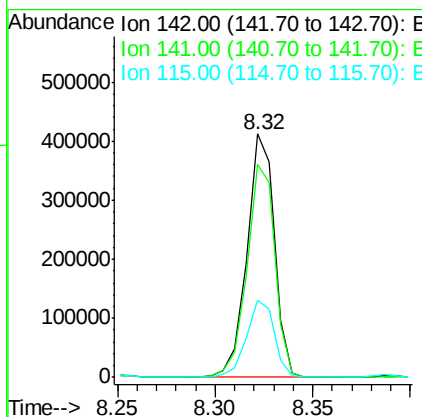
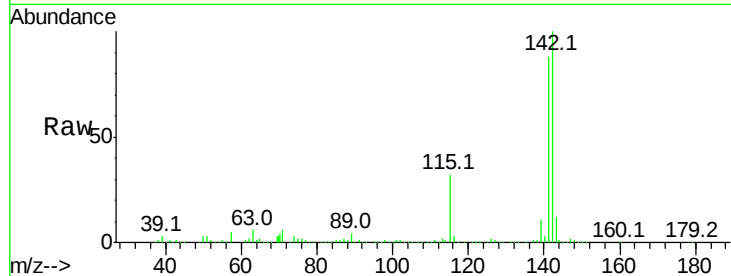
#37
2-Methylnaphthalene
Concen: 18.81 ng
RT: 8.32 min Scan# 1094
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.7	71.3	106.9
115	31.8	27.1	40.7

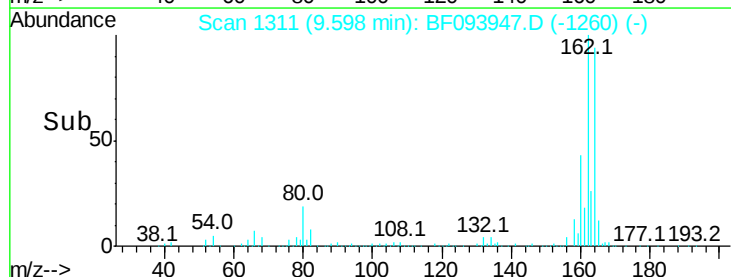
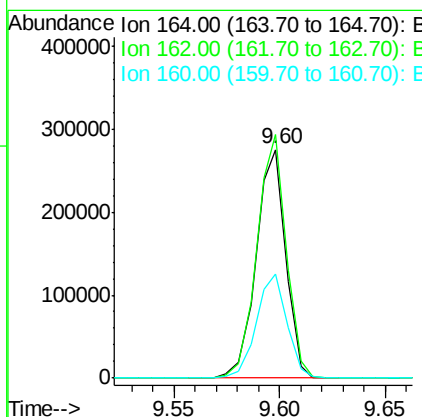
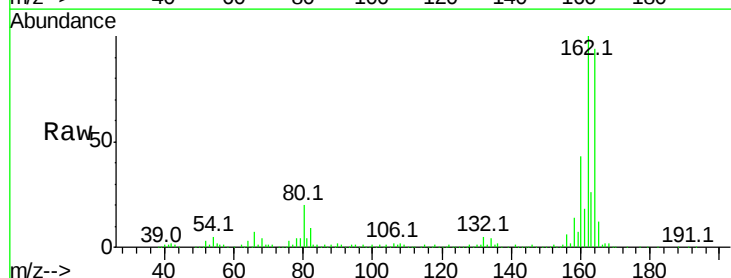
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.60 min Scan# 1311
Delta R.T. 0.00 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	82.6	123.8
160	45.5	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 1.49 ng

RT: 10.56 min Scan# 1475

Delta R.T. -0.01 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Instrument :

BNA_F

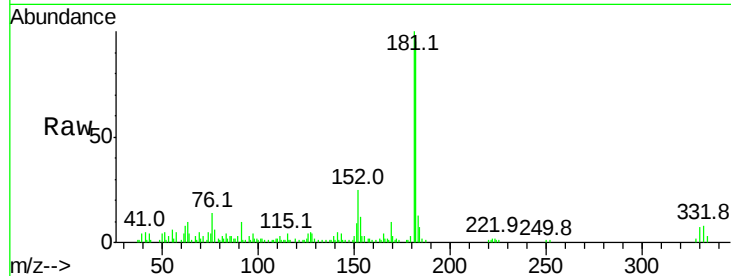
ClientSampleId :

WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	102.1	76.6	115.0
141	83.1	31.4	47.2

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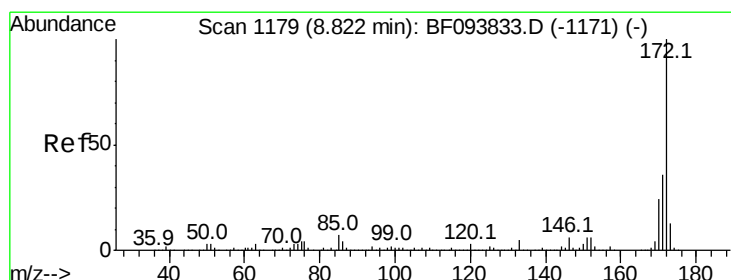
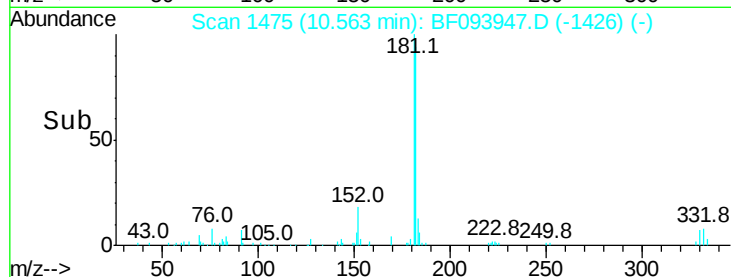
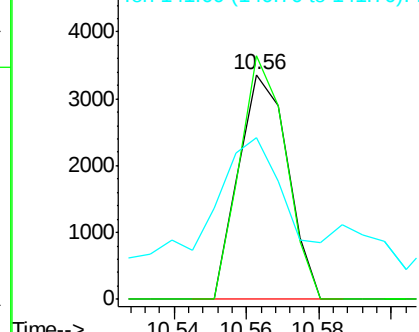


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 5.52 ng

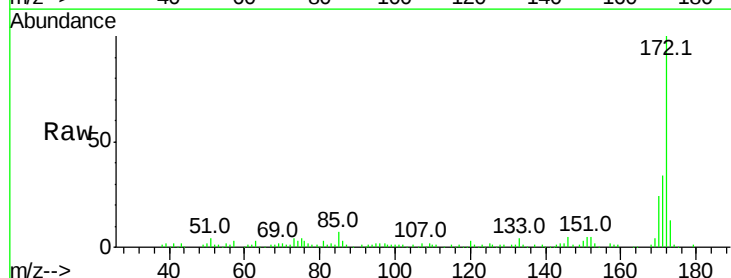
RT: 8.77 min Scan# 1171

Delta R.T. -0.01 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.6	29.6	44.4
170	23.6	19.8	29.8

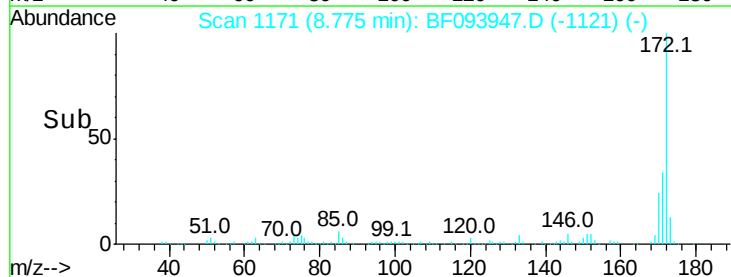
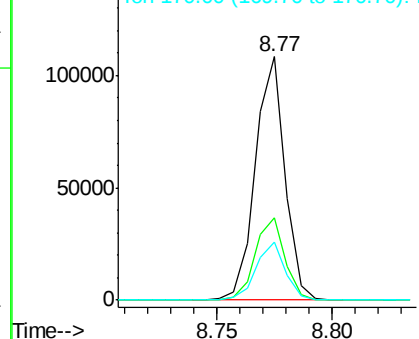


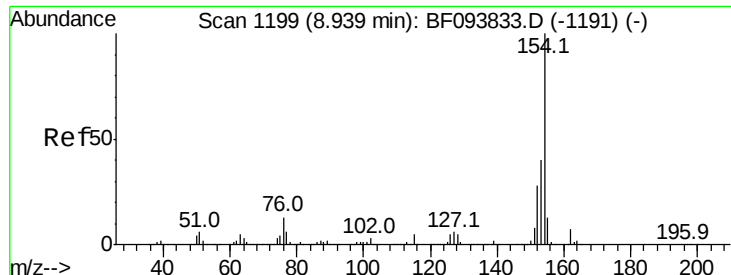
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





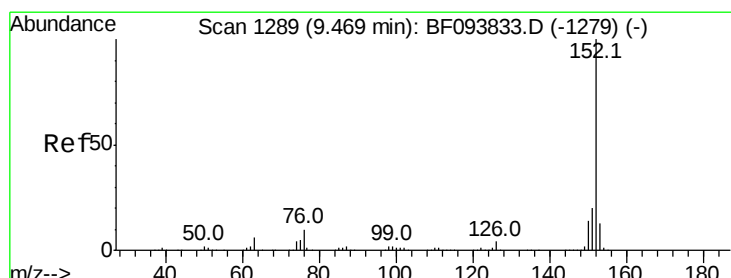
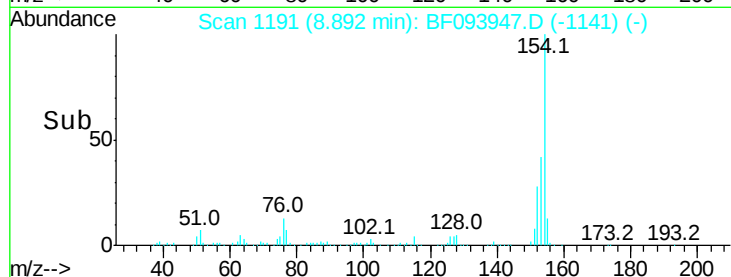
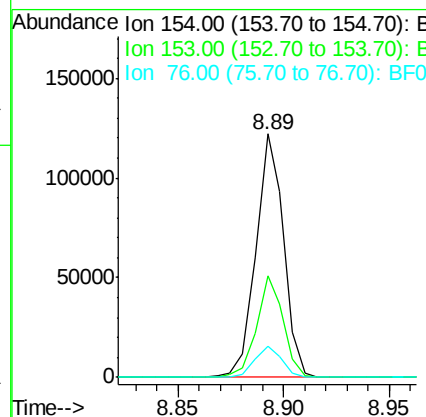
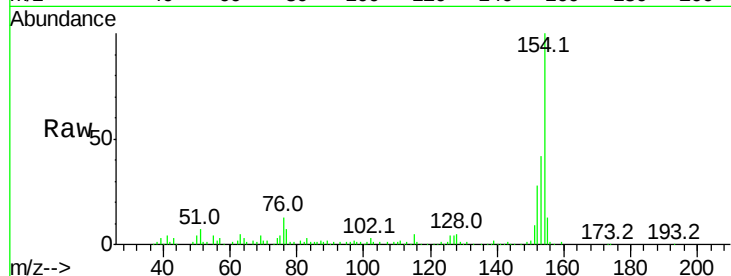
#45
1,1'-Biphenyl
Concen: 5.14 ng
RT: 8.89 min Scan# 1191
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Resp	Lower	Upper
154	100	111123		
153	41.9	21.2	61.2	
76	12.7	0.0	29.9	

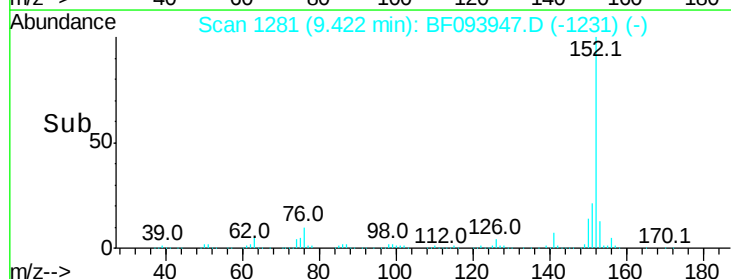
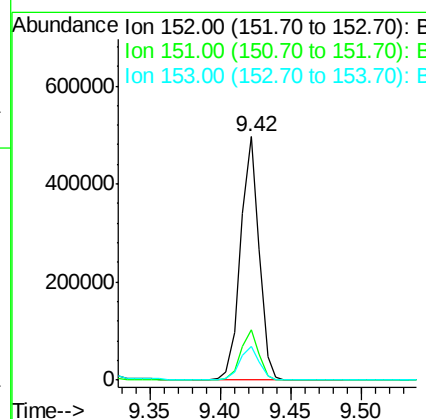
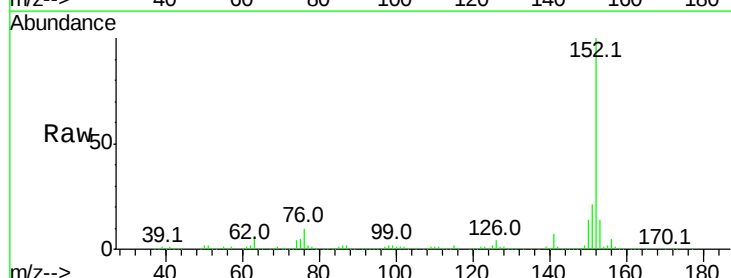
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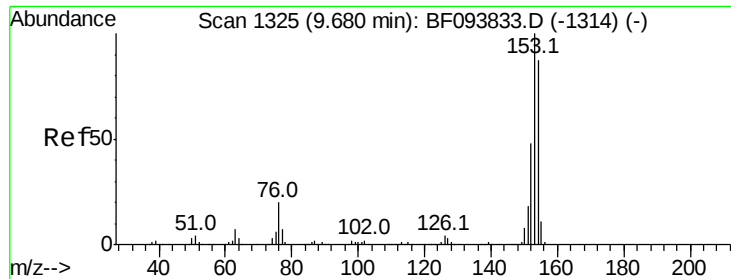
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#48
Acenaphthylene
Concen: 16.04 ng
RT: 9.42 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	450846		
151	20.9	16.8	25.2	
153	13.9	10.8	16.2	





#51

Acenaphthene

Concen: 4.42 ng

RT: 9.63 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Instrument :

BNA_F

ClientSampleId :

WC-COMP-10DL

Tot Ion:154 Resp: 72529

Ion Ratio Lower Upper

154 100

153 113.4 90.5 135.7

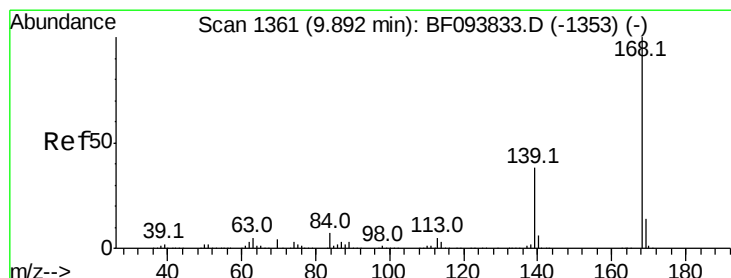
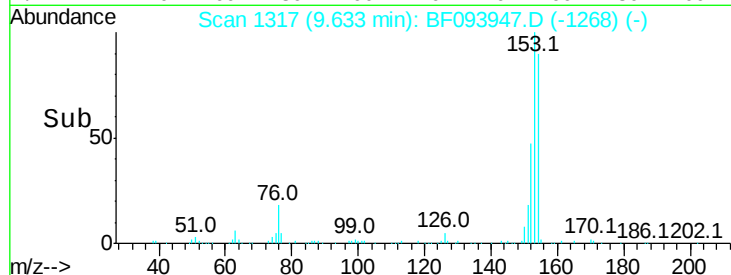
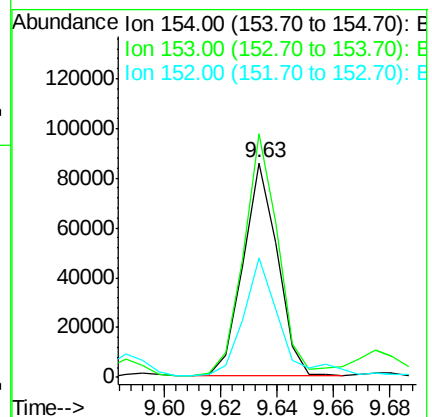
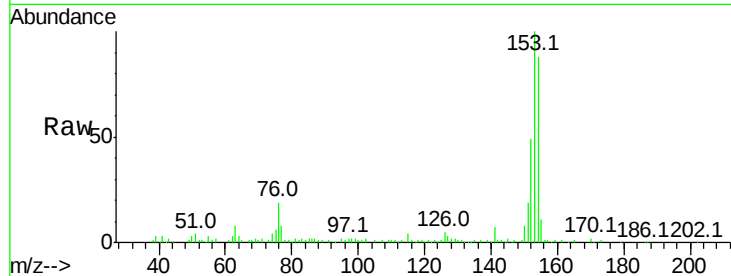
152 55.7 43.6 65.4

Manual Integrations

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#54

Dibenzofuran

Concen: 7.43 ng

RT: 9.85 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

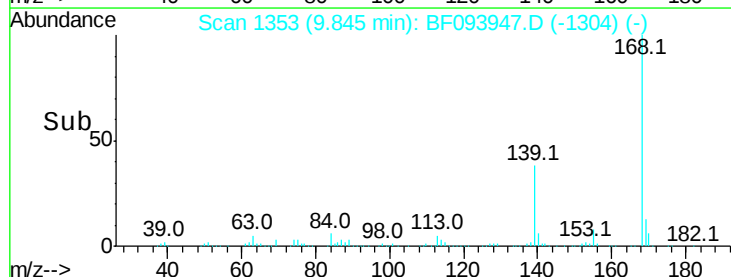
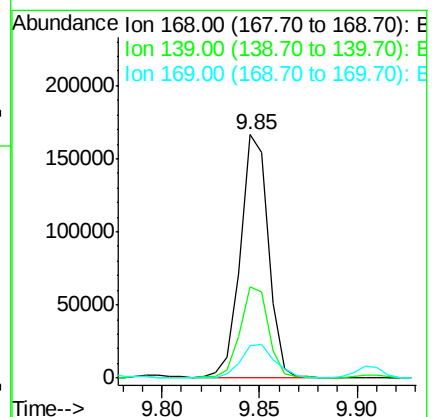
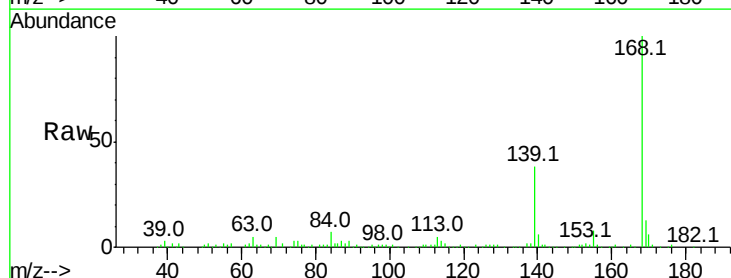
Tgt Ion:168 Resp: 165998

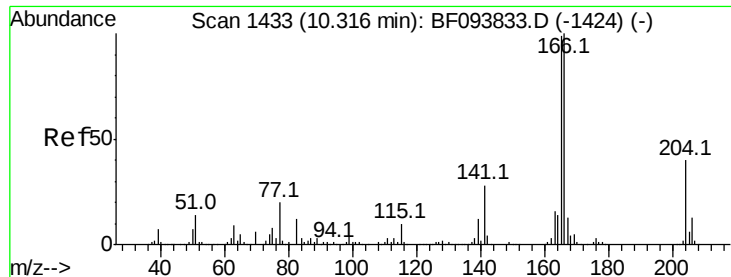
Ion Ratio Lower Upper

168 100

139 37.7 30.6 45.8

169 13.4 10.8 16.2





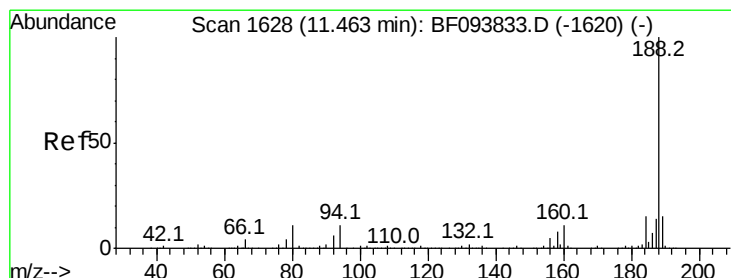
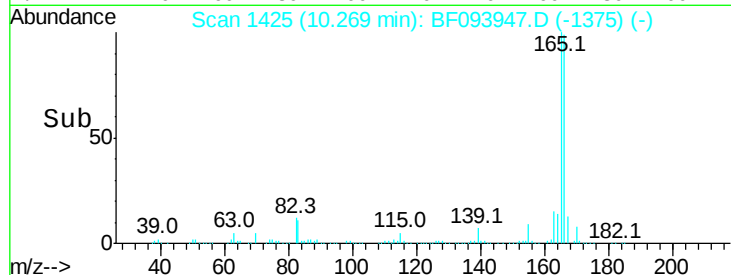
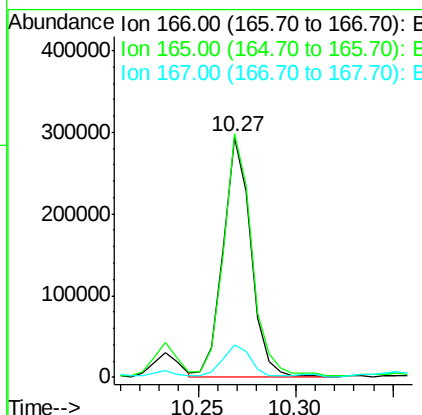
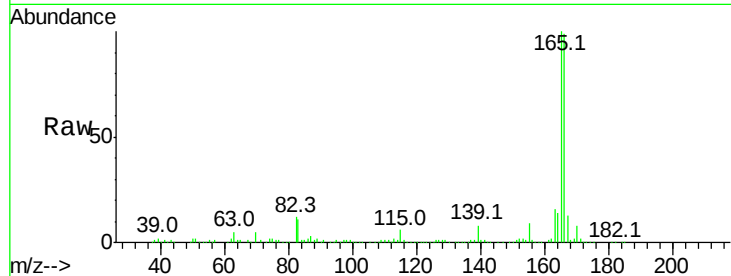
#57
Fluorene
 Concen: 15.59 ng
 RT: 10.27 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF093947.D
 Acq: 27 Mar 2017 16:49

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-10DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	288823		
165	101.4	78.8	118.2	
167	13.3	10.6	16.0	

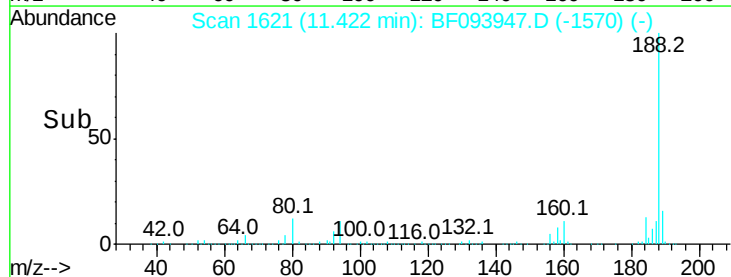
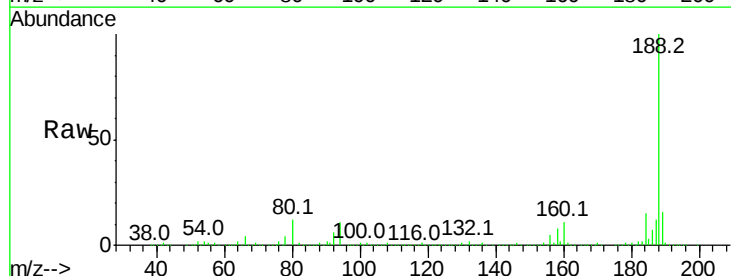
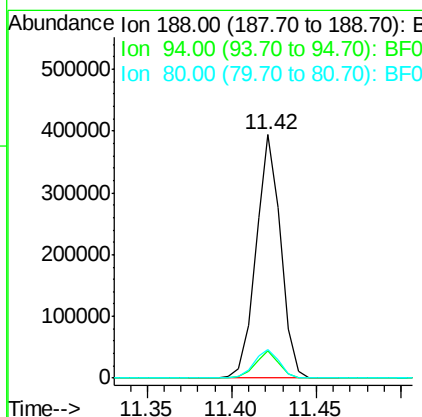
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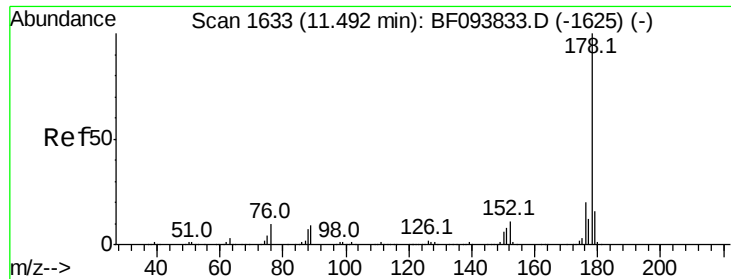
mohammad
 3/28/2017 3:43:12 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: BF093947.D
 Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	398523		
94	11.0	9.4	14.2	
80	11.6	10.2	15.2	





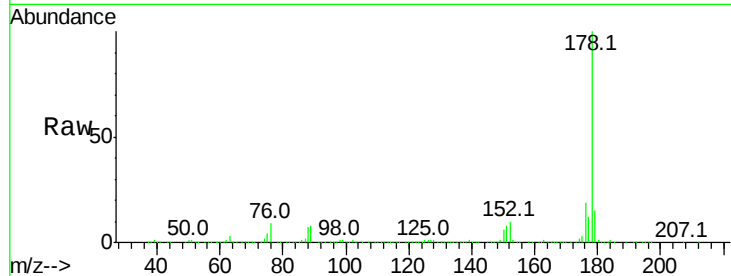
#70
Phenanthrene
Concen: 49.06 ng
RT: 11.46 min Scan# 1627
Delta R.T. 0.00 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

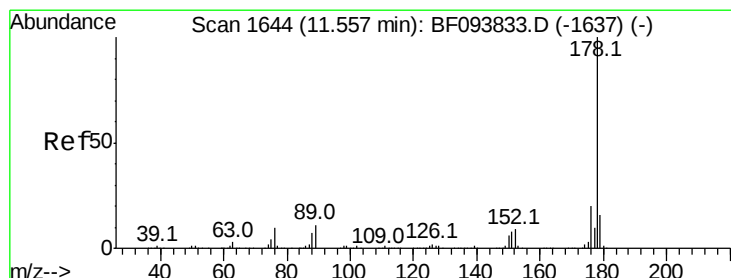
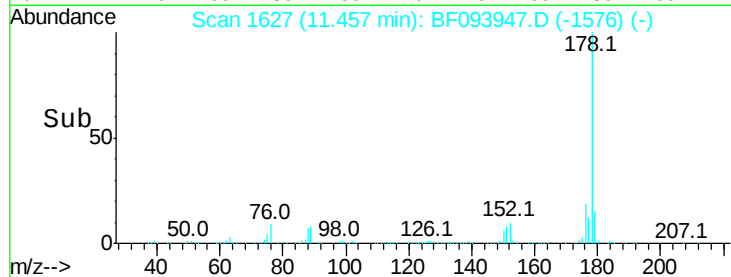
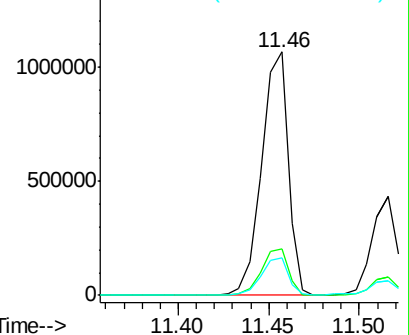
Tot Ion:178 Resp: 1087655
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.4
179 15.4 12.6 19.0

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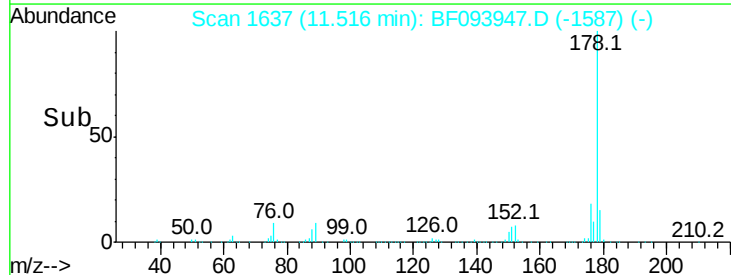
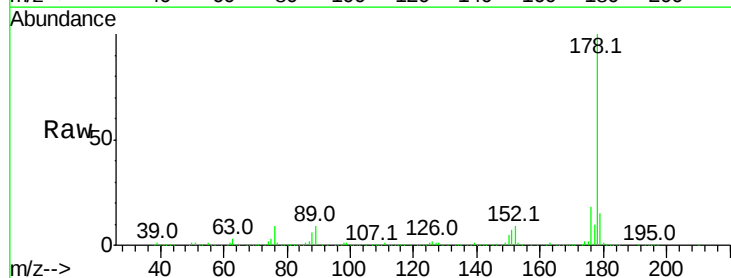
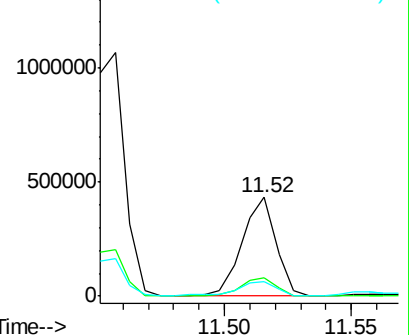
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

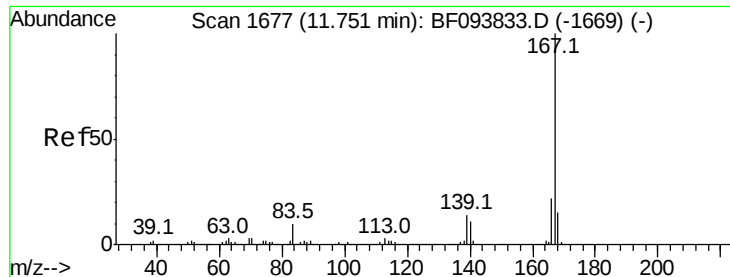


#71
Anthracene
Concen: 17.67 ng
RT: 11.52 min Scan# 1637
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion:178 Resp: 403308
Ion Ratio Lower Upper
178 100
176 18.3 15.8 23.8
179 15.0 12.7 19.1

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.95 ng

RT: 11.71 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Instrument :

BNA_F

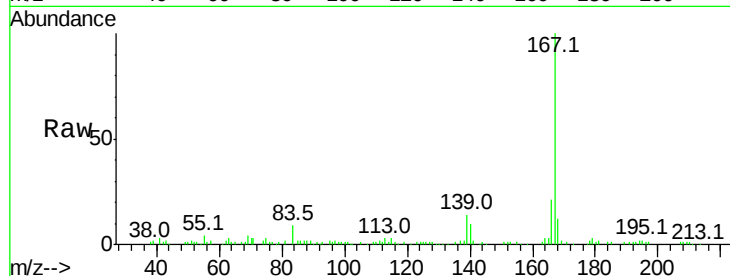
ClientSampleId :

WC-COMP-10DL

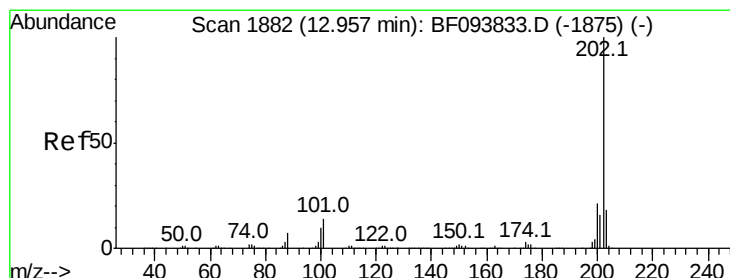
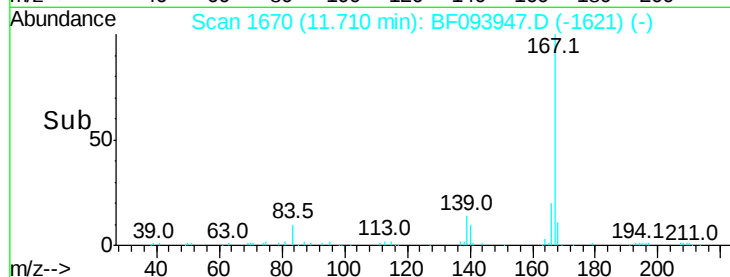
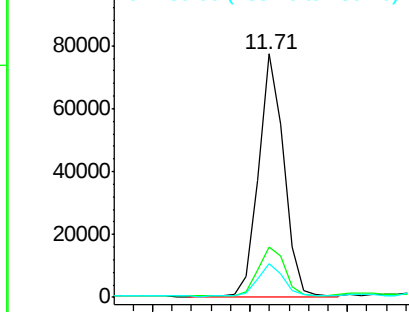
Tot Ion:	167	Resp:	68980
Ion Ratio	Lower	Upper	
167	100		
166	20.8	18.1	27.1
139	13.9	11.7	17.5

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 32.08 ng

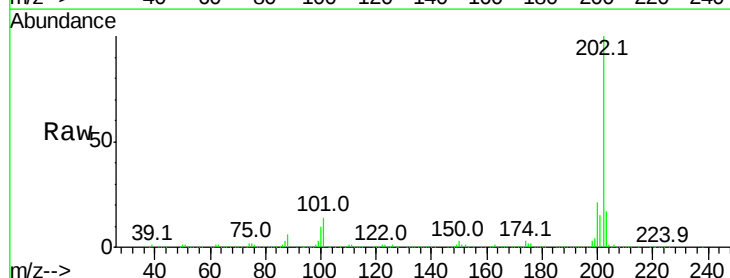
RT: 12.92 min Scan# 1875

Delta R.T. -0.01 min

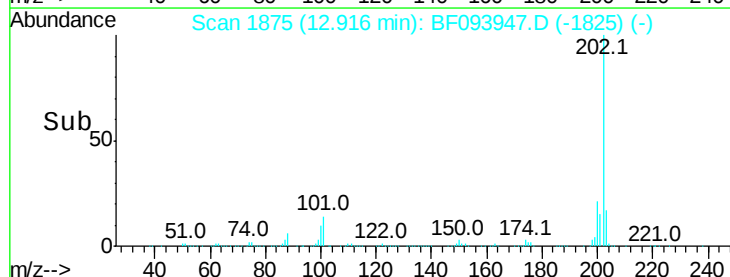
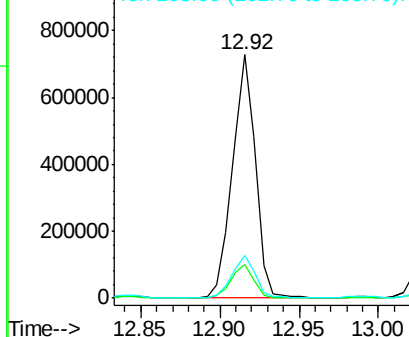
Lab File: BF093947.D

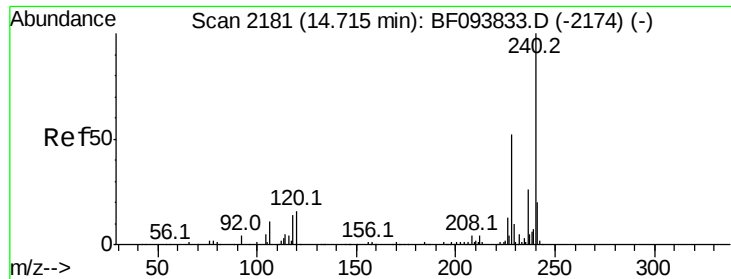
Acq: 27 Mar 2017 16:49

Tgt Ion:	202	Resp:	728136
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	33.2
203	17.3	0.0	38.1



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: 14.67 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Instrument :

BNA_F

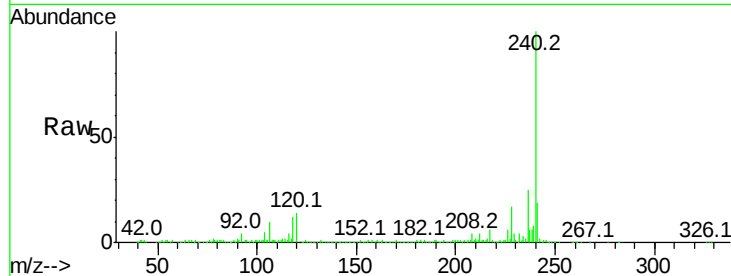
ClientSampleId :

WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.2	5.8	8.8#
236	25.4	20.5	30.7

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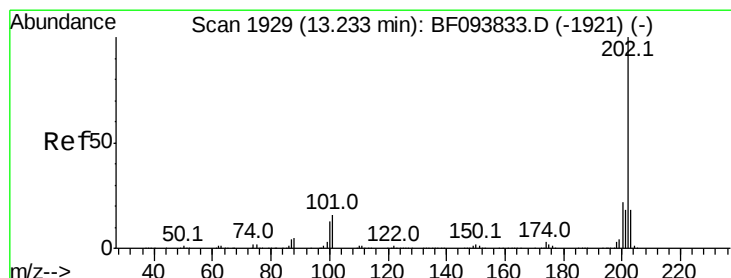
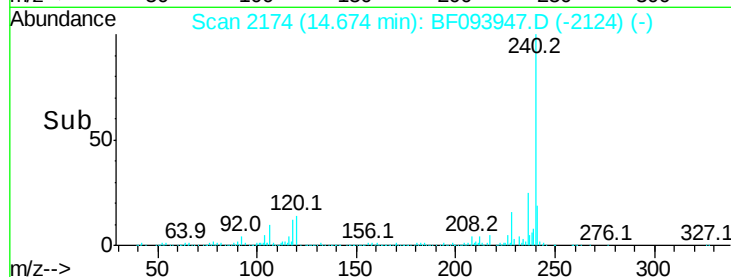
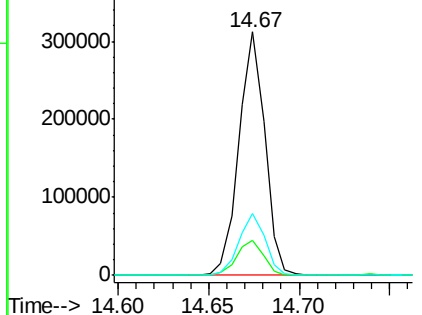
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 38.68 ng

RT: 13.19 min Scan# 1922

Delta R.T. -0.01 min

Lab File: BF093947.D

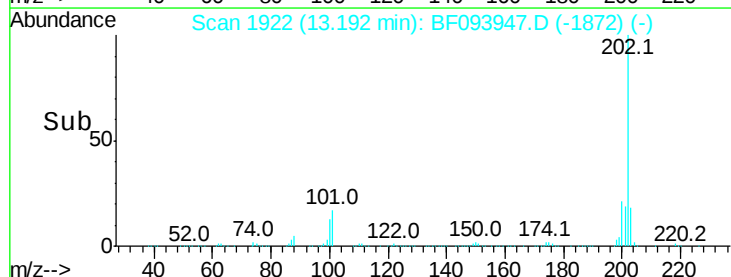
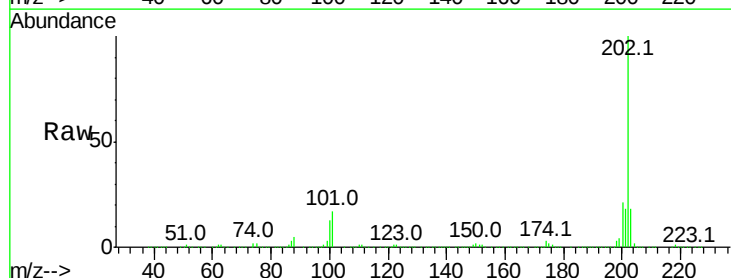
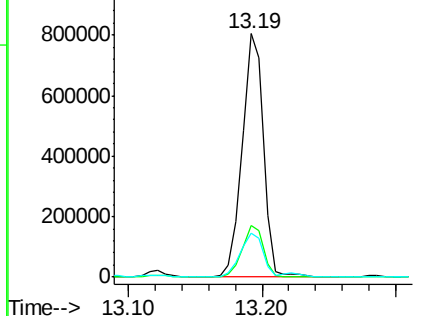
Acq: 27 Mar 2017 16:49

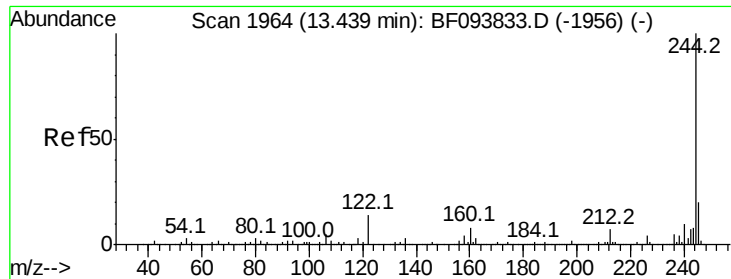
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.6	26.4
203	18.1	14.4	21.6

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





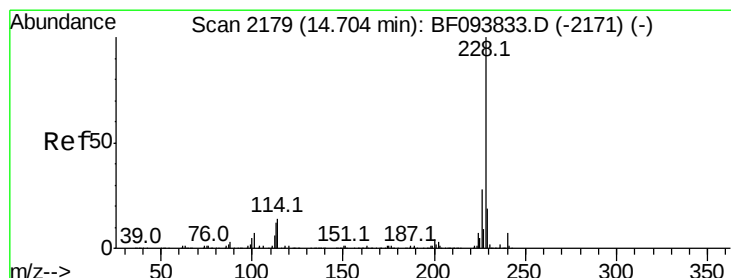
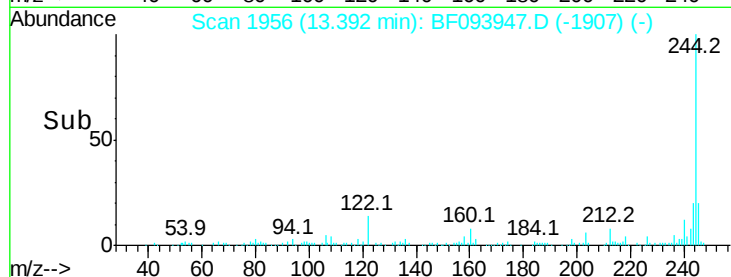
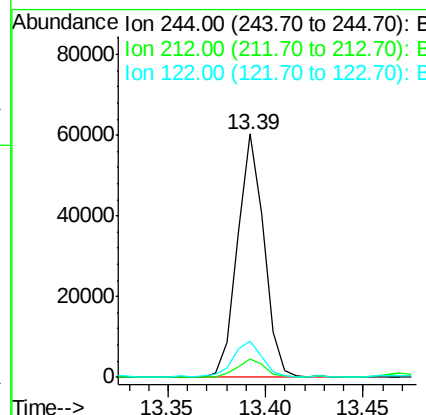
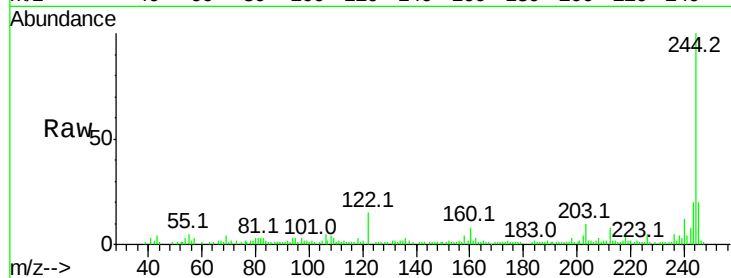
#78
 Terphenyl-d14
 Concen: 4.05 ng
 RT: 13.39 min Scan# 1956
 Delta R.T. -0.01 min
 Lab File: BF093947.D
 Acq: 27 Mar 2017 16:49

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.0	9.0
122	14.7	10.3	15.5

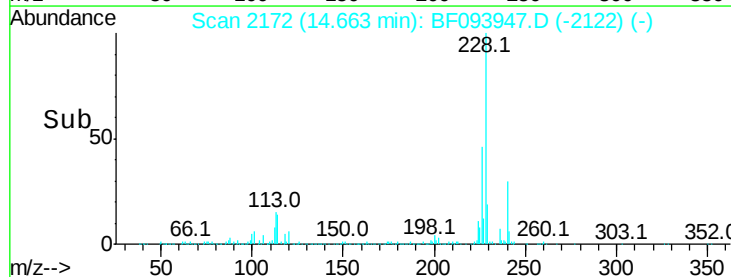
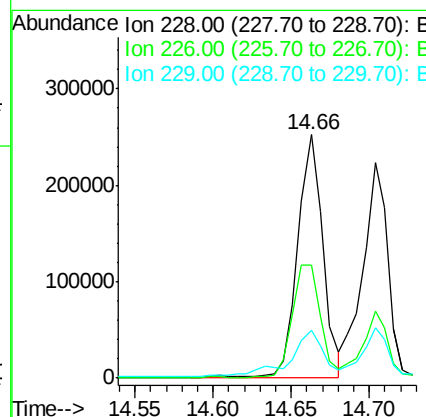
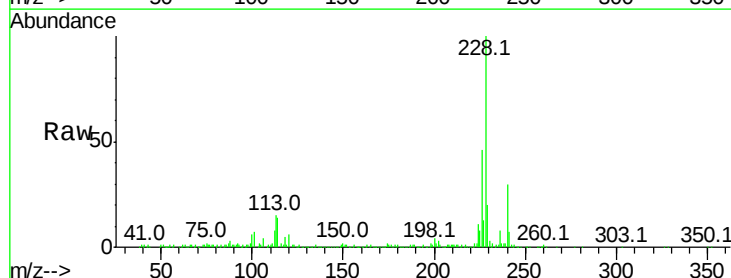
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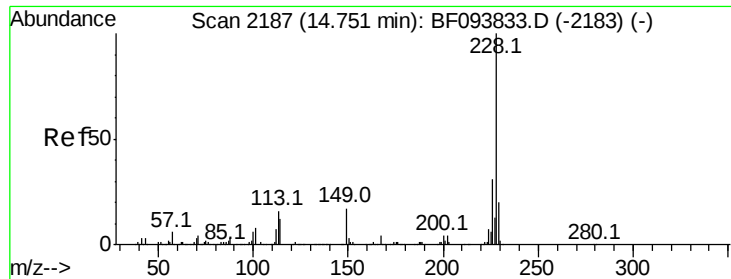
mohammad
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#80
 Benzo(a)anthracene
 Concen: 15.51 ng m
 RT: 14.66 min Scan# 2172
 Delta R.T. -0.01 min
 Lab File: BF093947.D
 Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	46.2	22.6	33.8#
229	19.8	16.3	24.5





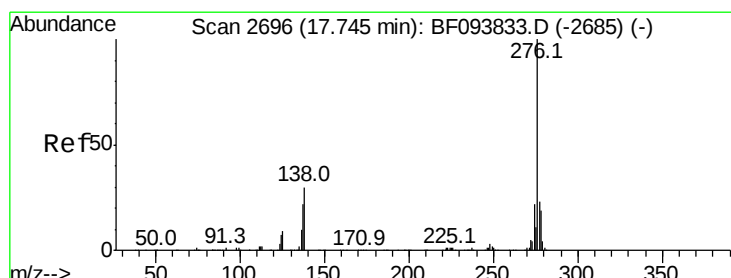
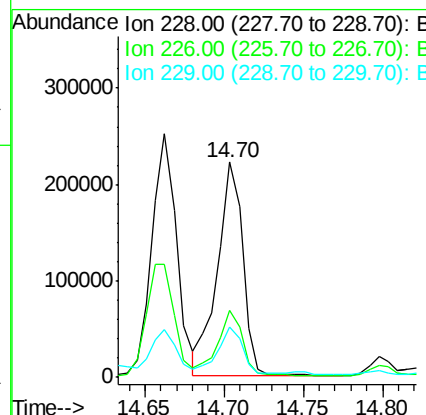
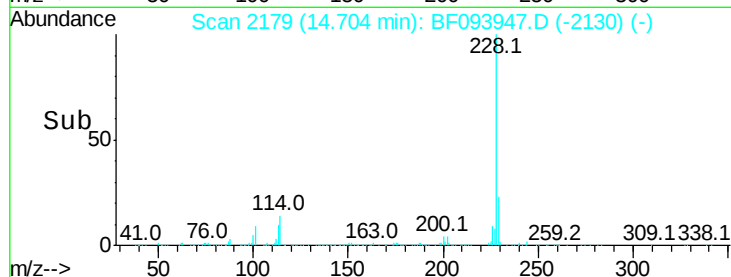
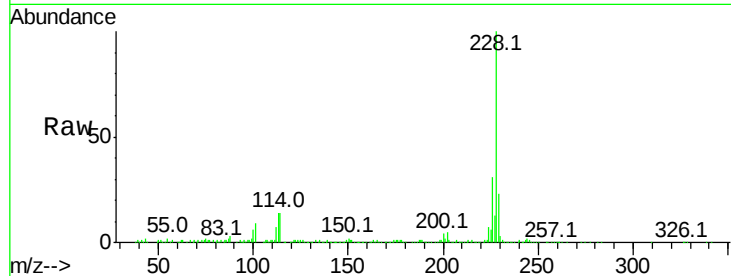
#82
Chrysene
Concen: 14.71 ng
RT: 14.70 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion:	228	Resp:	249402
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.9	37.3
229	23.2	15.8	23.6

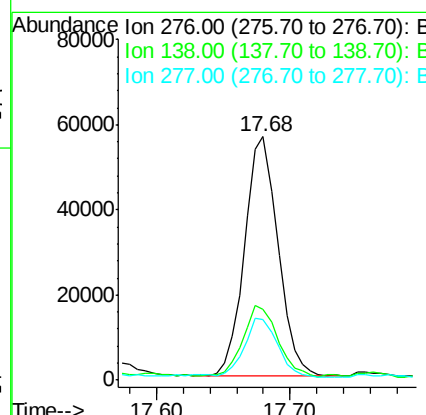
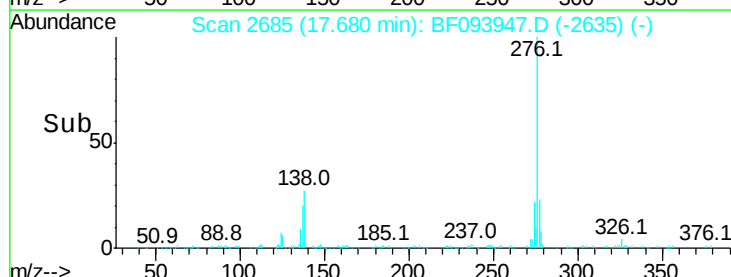
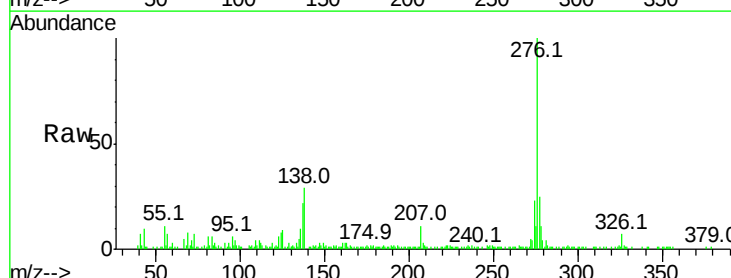
Manual Integrations
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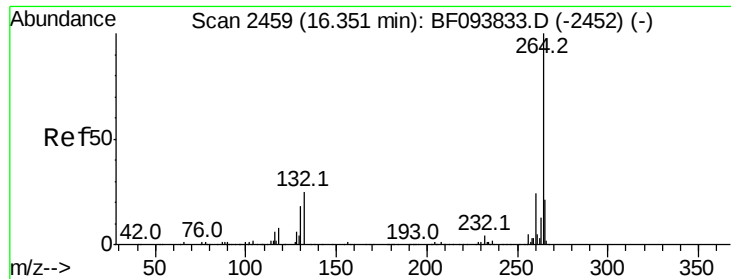
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.67 ng
RT: 17.68 min Scan# 2685
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion:	276	Resp:	97944
Ion Ratio	Lower	Upper	
276	100		
138	30.8	27.8	41.6
277	25.1	20.2	30.4





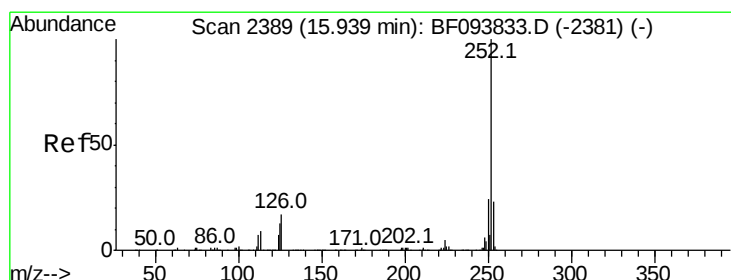
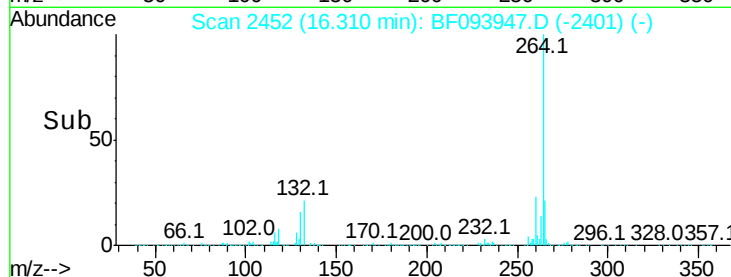
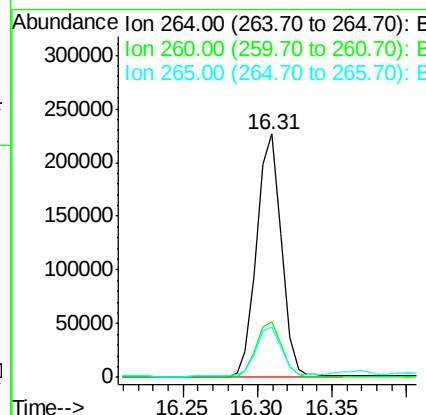
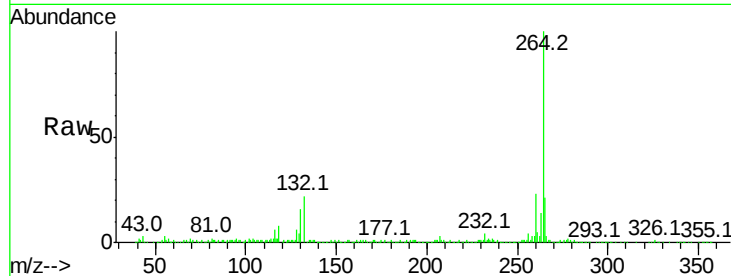
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.31 min Scan# 2452
Delta R.T. 0.00 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	20.9	17.2	25.8

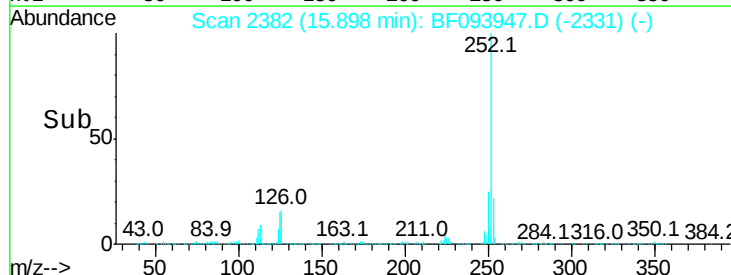
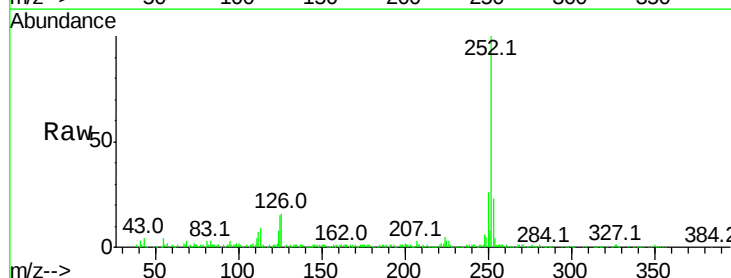
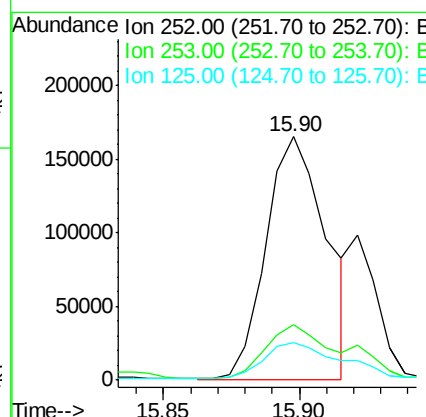
Manual Integrations
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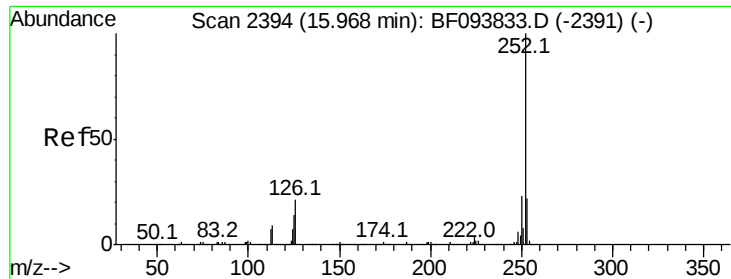
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#87
Benzo(b)fluoranthene
Concen: 16.16 ng m
RT: 15.90 min Scan# 2382
Delta R.T. 0.00 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	15.3	9.8	14.8





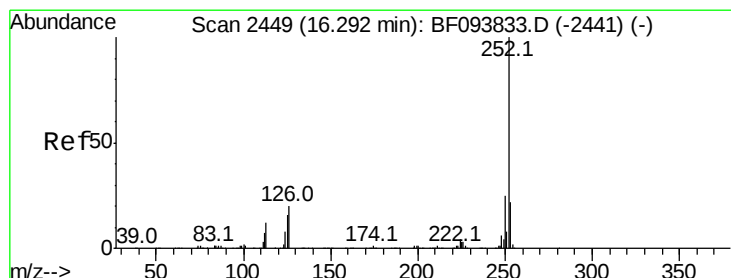
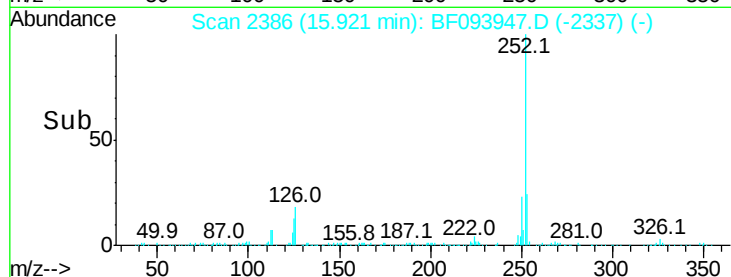
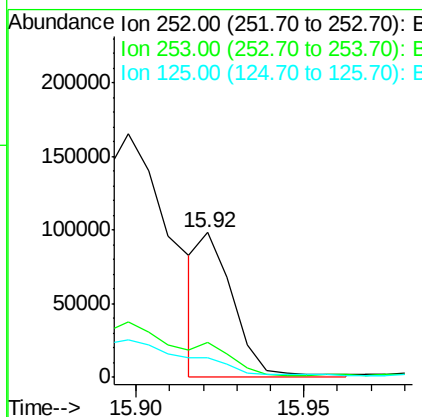
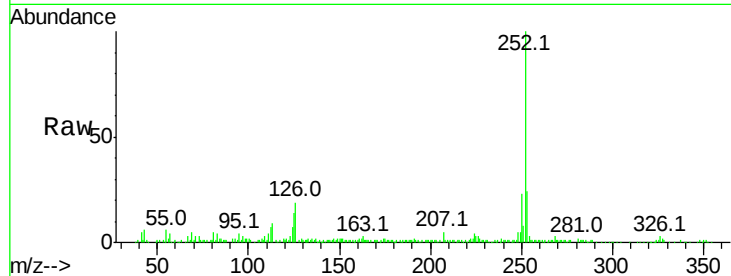
#88
Benzo(k)fluoranthene
Concen: 4.59 ng m
RT: 15.92 min Scan# 2386
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.4	27.6
125	13.7	13.1	19.7

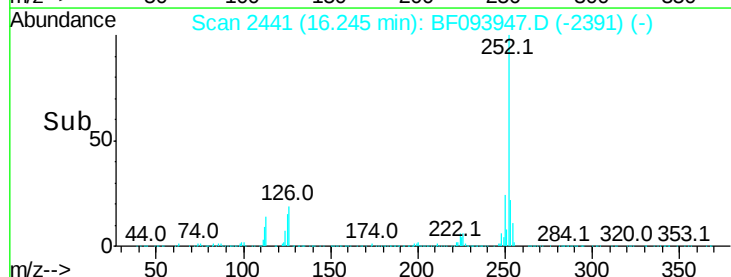
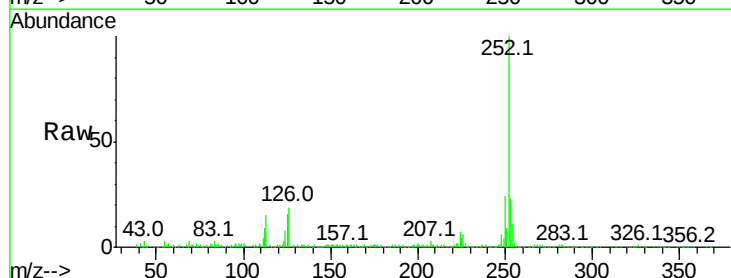
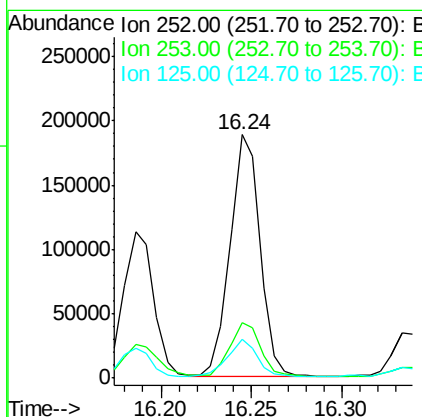
Manual Integrations
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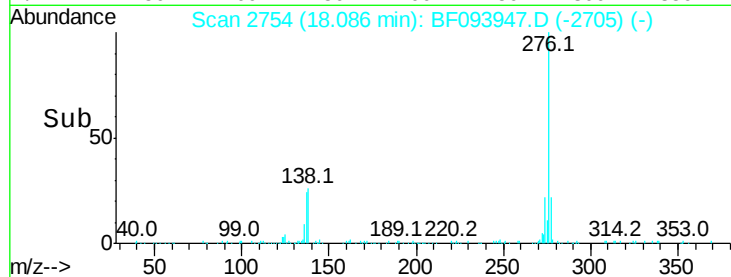
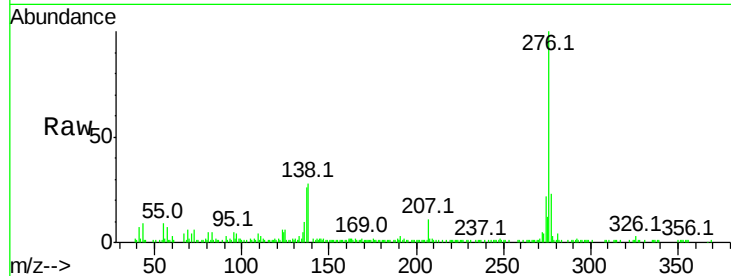
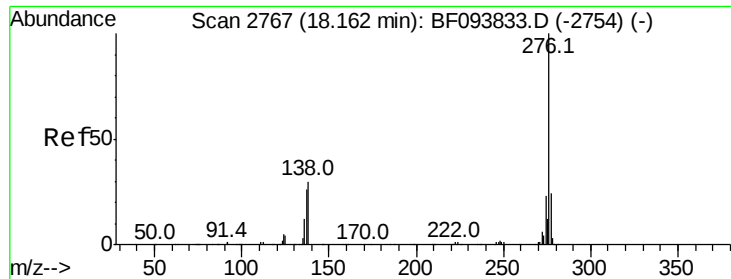
mohammad
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#89
Benzo(a)pyrene
Concen: 14.70 ng
RT: 16.24 min Scan# 2441
Delta R.T. -0.01 min
Lab File: BF093947.D
Acq: 27 Mar 2017 16:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	16.1	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 8.95 ng

RT: 18.09 min Scan# 2754

Delta R.T. -0.01 min

Lab File: BF093947.D

Acq: 27 Mar 2017 16:49

Instrument :

BNA_F

ClientSampleId :

WC-COMP-10DL

Tot Ion:	276	Resp:	111506
Ion Ratio		Lower	Upper
276	100		
277	23.1	18.6	28.0
138	27.9	25.4	38.0

Manual Integrations
APPROVED

mohammad
3/28/2017 3:43:12 PM

