

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093900.D
 Acq On : 24 Mar 2017 11:31
 Operator : SJ/MA
 Sample : I2367-22
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-DD10-ESW

Manual Integrations
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Quant Time: Mar 25 00:03:16 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.97	152	211405	20.00	ng	-0.02
21) Naphthalene-d8	7.47	136	855589	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	373637	20.00	ng	-0.02
63) Phenanthrene-d10	11.44	188	627152	20.00	ng	-0.02
75) Chrysene-d12	14.70	240	387951	20.00	ng	-0.02
86) Perylene-d12	16.34	264	343083	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1242002	99.23	ng	0.00
7) Phenol-d6	5.56	99	1563559	100.98	ng	0.00
23) Nitrobenzene-d5	6.62	82	1036763	69.15	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	294506	99.75	ng	-0.02
44) 2-Fluorobiphenyl	8.80	172	1643847	67.11	ng	-0.02
78) Terphenyl-d14	13.42	244	1046685	60.47	ng	-0.02
Target Compounds						Qvalue
10) Phenol	5.57	94	75876	4.31	ng	95
31) Naphthalene	7.50	128	231570	5.63	ng	98
37) 2-Methylnaphthalene	8.34	142	101655	3.71	ng	98
48) Acenaphthylene	9.44	152	151491	3.86	ng	99
49) Dimethylphthalate	9.29	163	256919	9.67	ng	99
54) Dibenzofuran	9.86	168	79007	2.54	ng	98
70) Phenanthrene	11.47	178	514048	14.73	ng	99
71) Anthracene	11.53	178	192355	5.35	ng	97
74) Fluoranthene	12.93	202	899381	25.18	ng	98
77) Pyrene	13.21	202	810780	28.80	ng	99
80) Benzo(a)anthracene	14.69	228	365056	16.14	ng	95
82) Chrysene	14.73	228	421440m	20.07	ng	
85) Indeno(1,2,3-cd)pyrene	17.72	276	228115	12.55	ng	96
87) Benzo(b)fluoranthene	15.92	252	533839m	25.38	ng	
88) Benzo(k)fluoranthene	15.94	252	158112m	7.68	ng	
89) Benzo(a)pyrene	16.27	252	297523	15.36	ng	98
90) Dibenzo(a,h)anthracene	17.73	278	56992m	3.47	ng	
91) Benzo(g,h,i)perylene	18.13	276	212508	12.86	ng	98

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

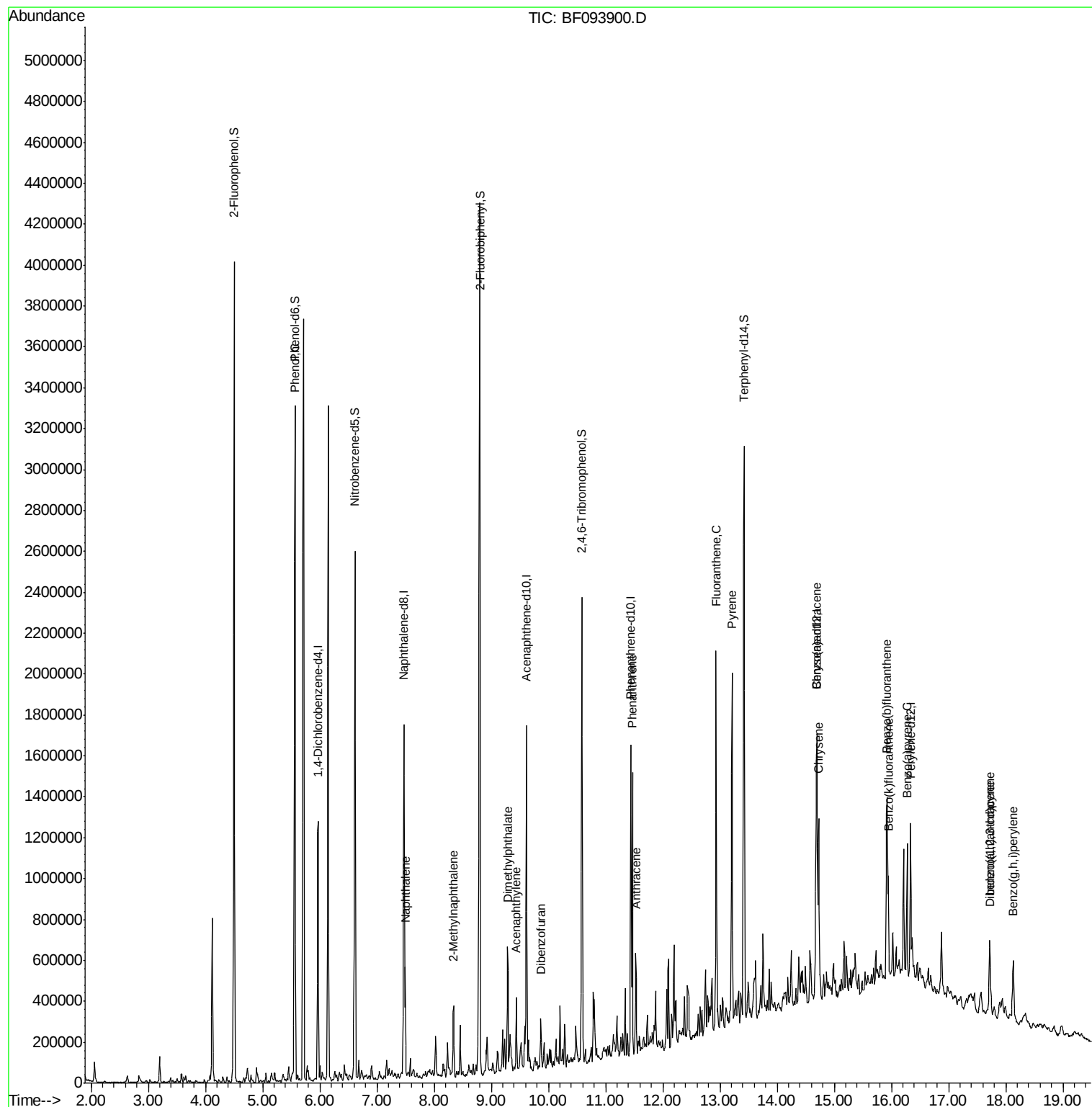
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
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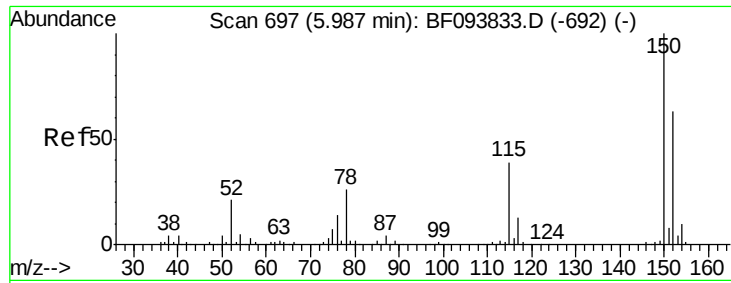
Instrument :
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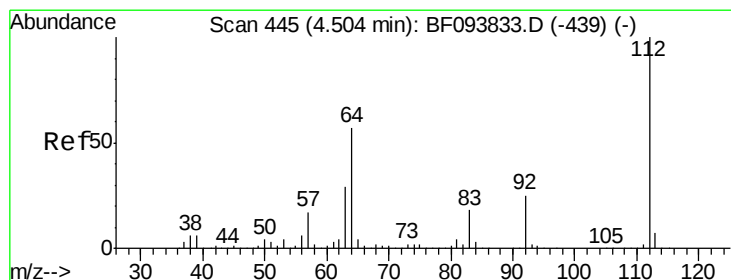
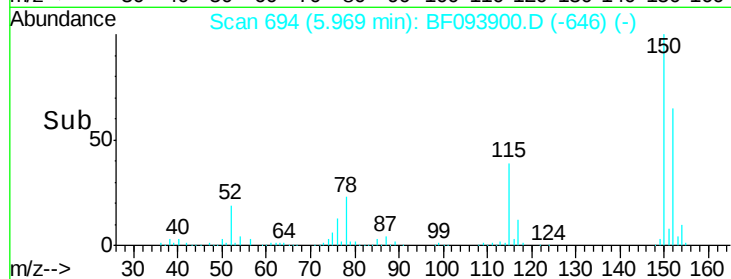
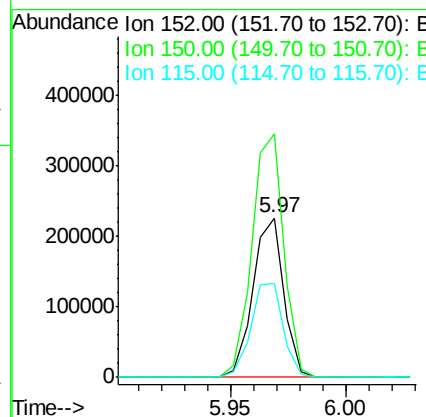
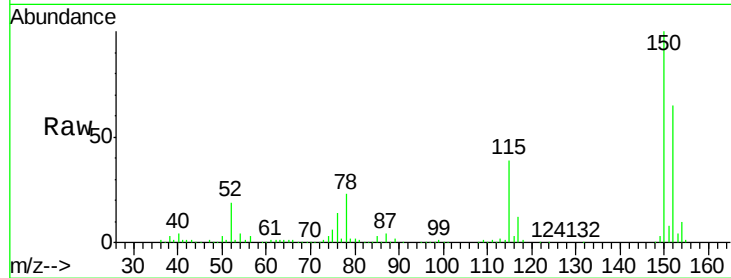
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.97 min Scan# 694
 Delta R.T. -0.02 min
 Lab File: BF093900.D
 Acq: 24 Mar 2017 11:31

Instrument :
 BNA_F
 ClientSampleId :
 E2-DD10-ESW

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.9	126.2	189.2
115	59.3	52.2	78.2

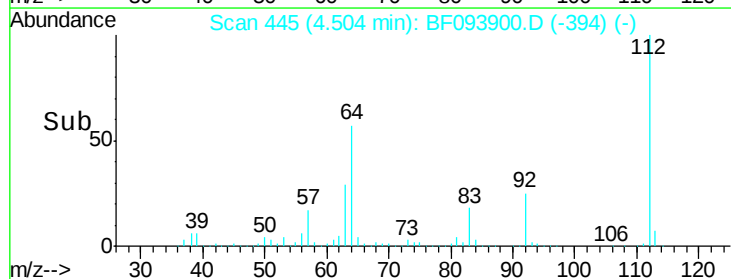
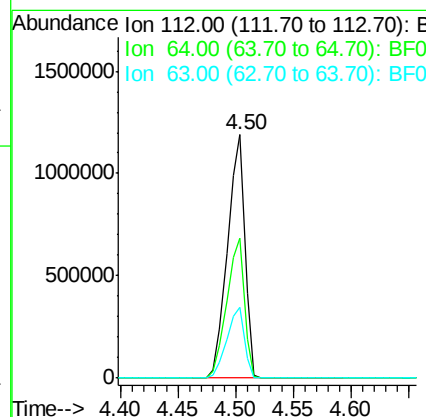
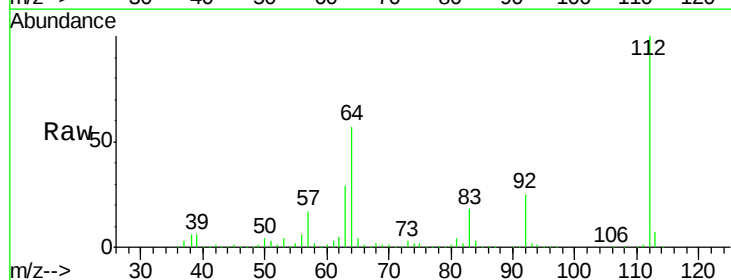
Manual Integrations
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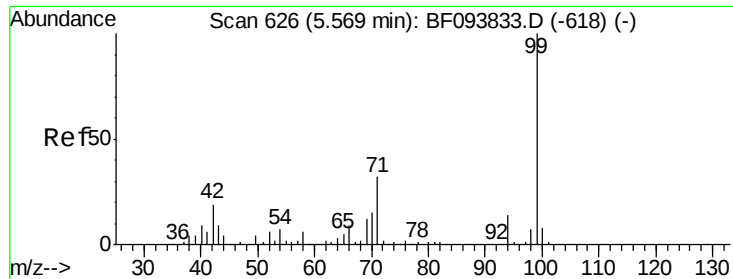
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#5
 2-Fluorophenol
 Concen: 99.23 ng
 RT: 4.50 min Scan# 445
 Delta R.T. 0.00 min
 Lab File: BF093900.D
 Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.3	46.0	69.0
63	29.2	23.4	35.0





#7

Phenol-d6

Concen: 100.98 ng

RT: 5.56 min Scan# 625

Delta R.T. -0.01 min

Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

Instrument :

BNA_F

ClientSampleId :

E2-DD10-ESW

Tot Ion: 99 Resp: 1563559

Ion Ratio Lower Upper

99 100

42 18.6 13.5 20.3

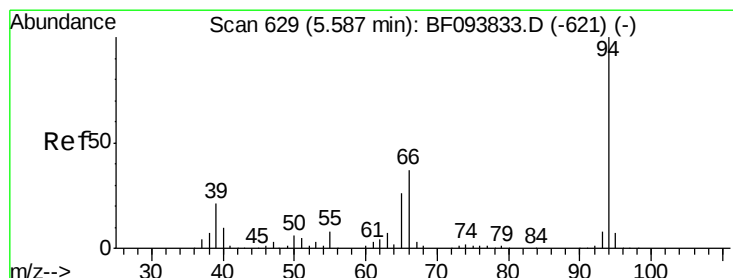
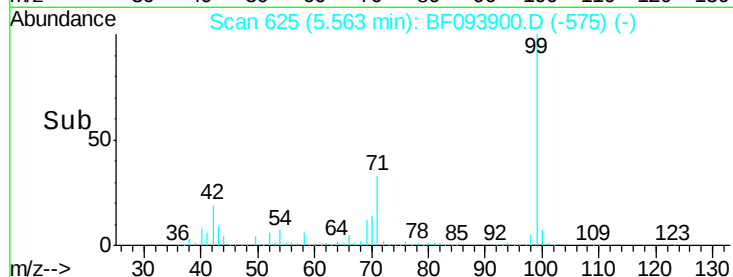
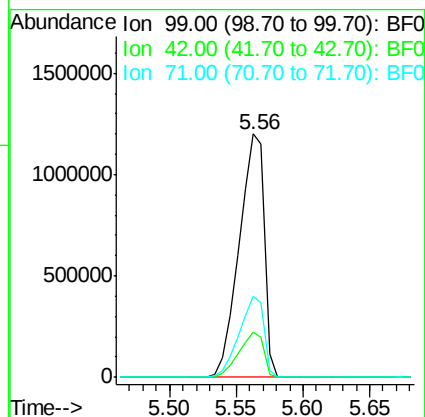
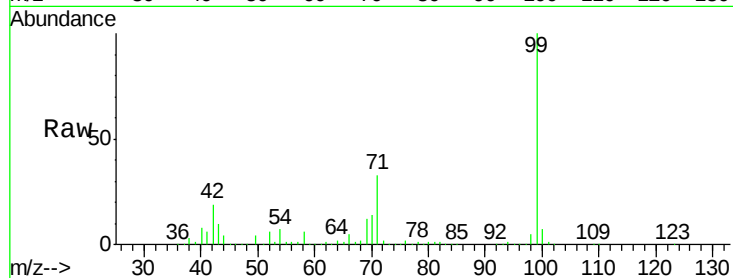
71 33.5 24.5 36.7

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#10

Phenol

Concen: 4.31 ng

RT: 5.57 min Scan# 627

Delta R.T. -0.01 min

Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

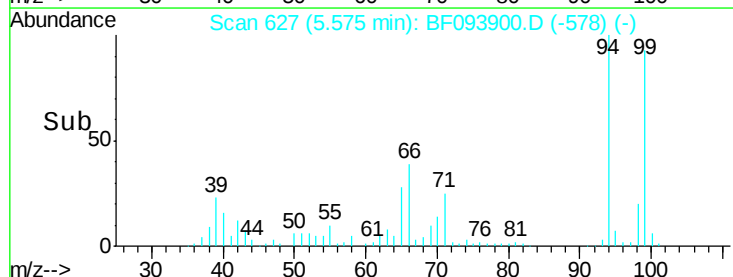
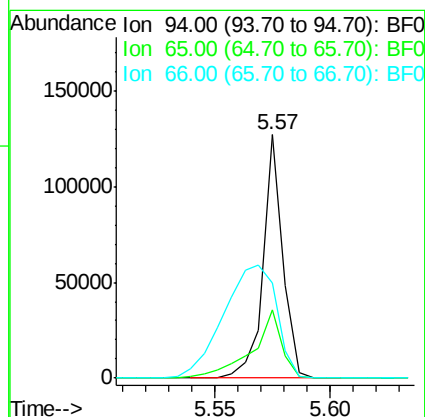
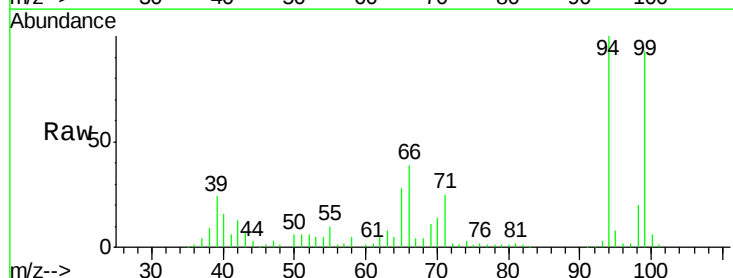
Tgt Ion: 94 Resp: 75876

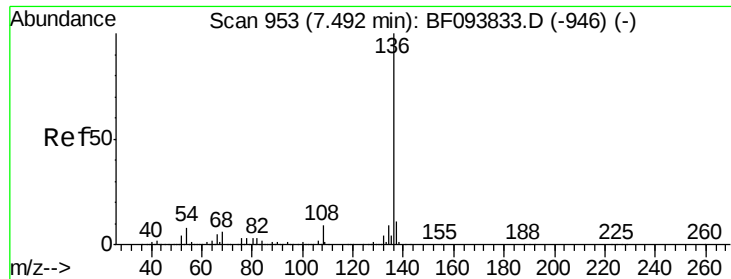
Ion Ratio Lower Upper

94 100

65 28.1 9.9 49.9

66 39.3 23.1 63.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.47 min Scan# 949

Delta R.T. -0.02 min

Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

Instrument :

BNA_F

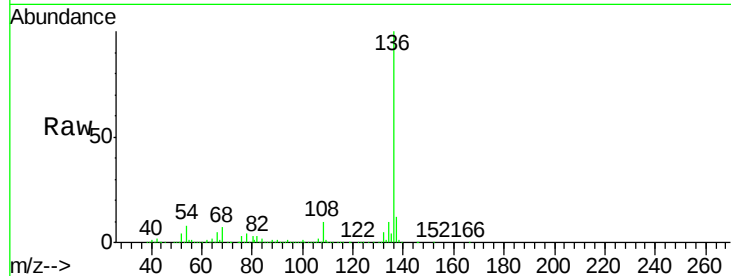
ClientSampleId :

E2-DD10-ESW

Tot Ion	Ratio	Resp	Lower	Upper
136	100	855589		
137	11.5		8.5	12.7
54	8.0		4.9	7.3
68	6.7		4.1	6.1

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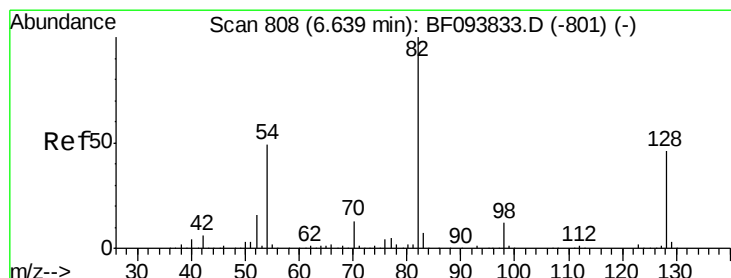
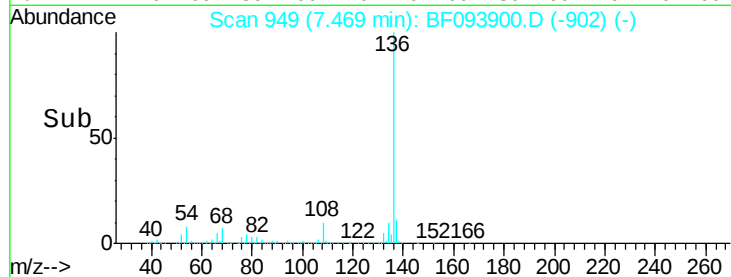
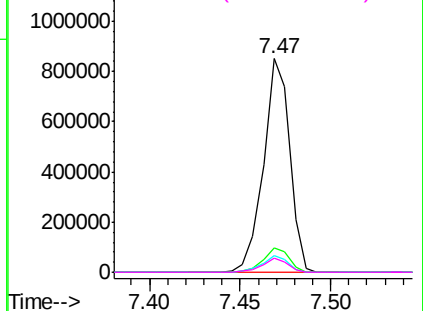


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 69.15 ng

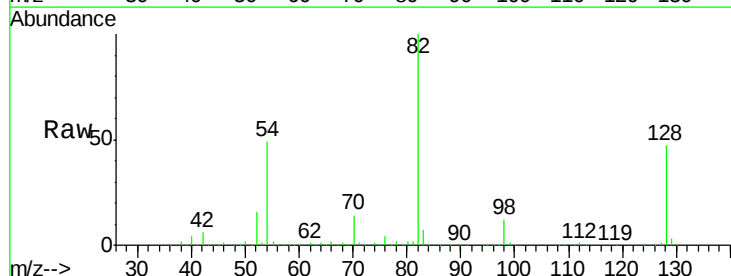
RT: 6.62 min Scan# 804

Delta R.T. -0.02 min

Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

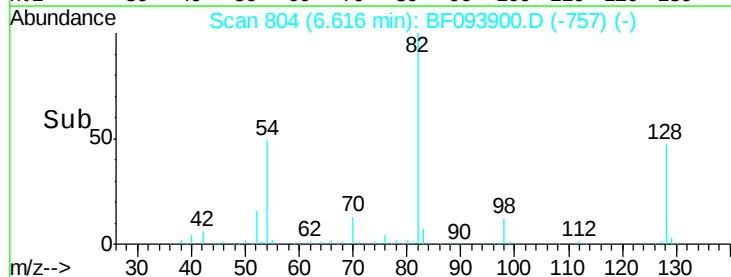
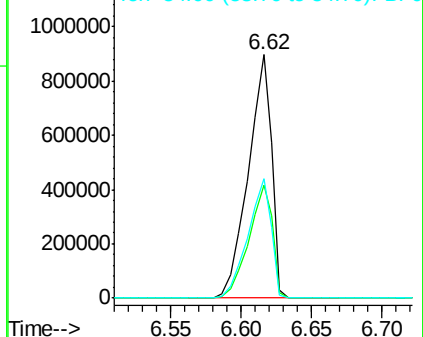
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	1036763		
128	46.6		34.0	51.0
54	49.2		42.2	63.2

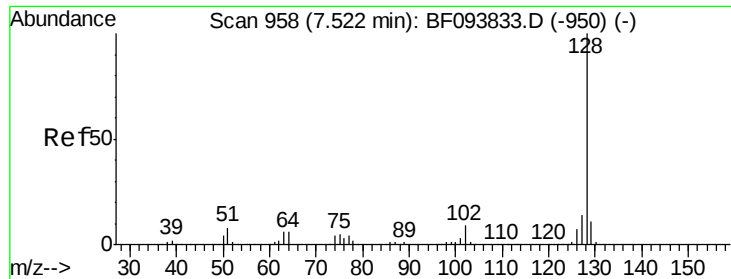


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





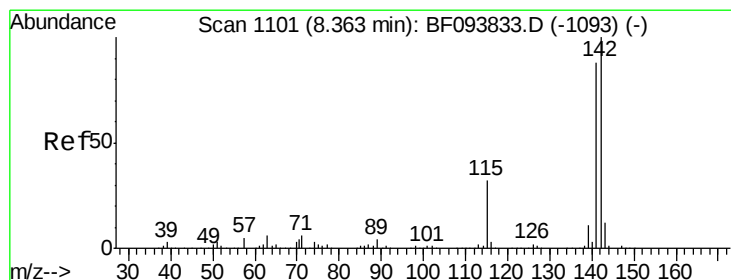
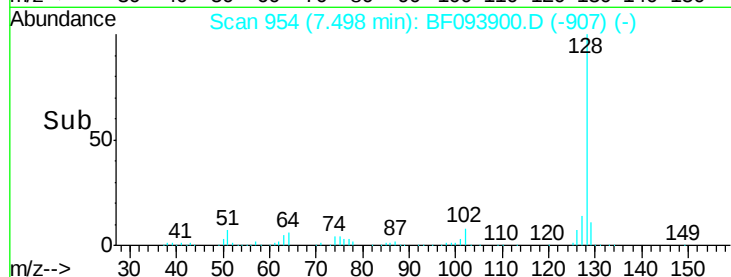
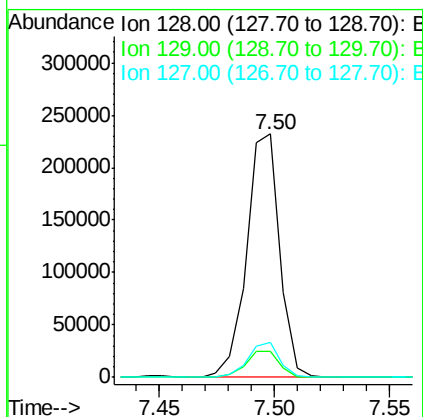
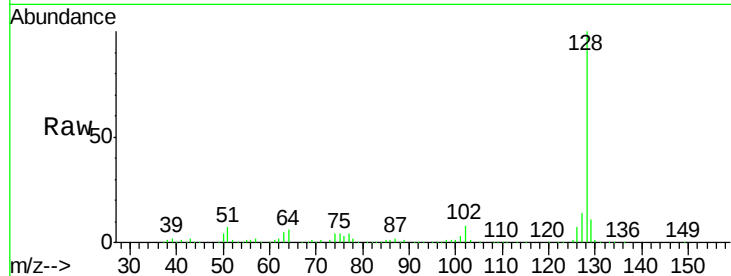
#31
Naphthalene
Concen: 5.63 ng
RT: 7.50 min Scan# 954
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	14.2	10.8	16.2

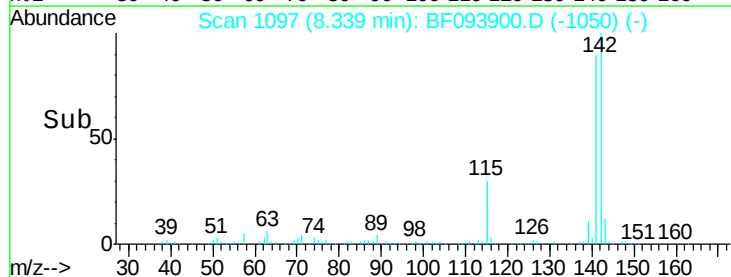
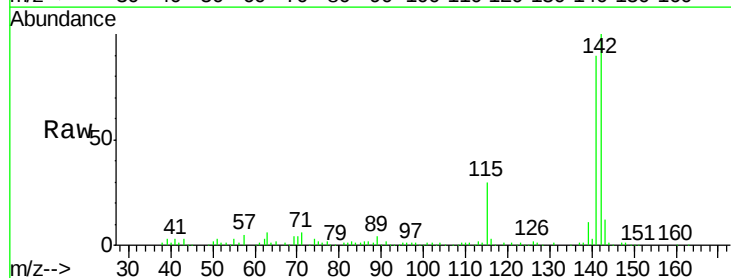
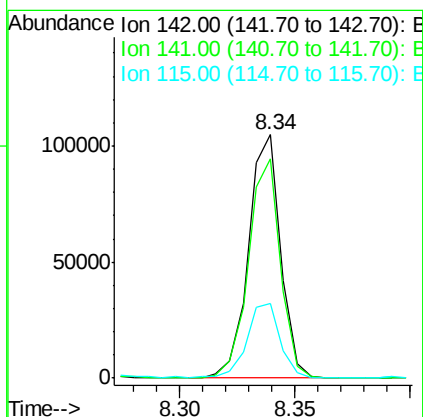
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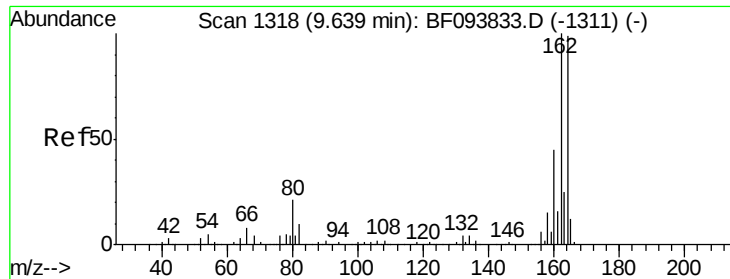
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#37
2-Methylnaphthalene
Concen: 3.71 ng
RT: 8.34 min Scan# 1097
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.3	106.9
115	30.5	27.1	40.7





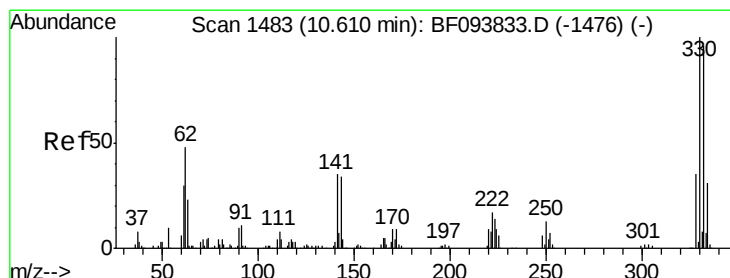
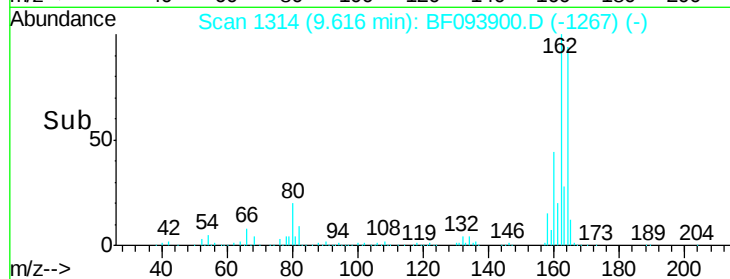
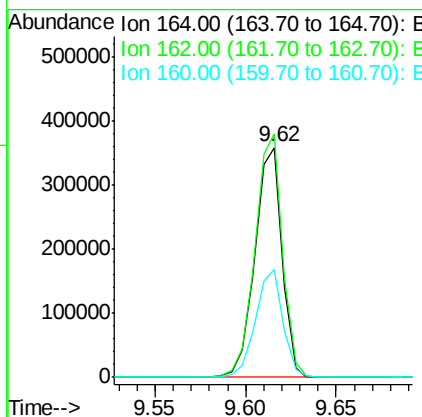
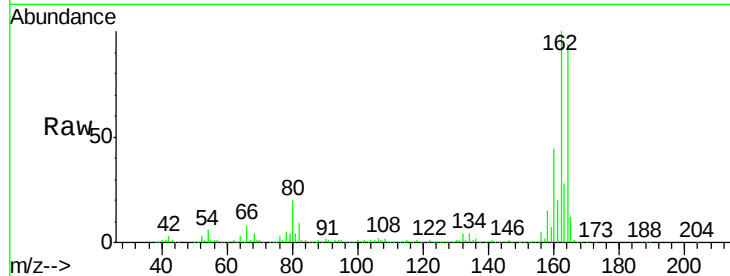
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.62 min Scan# 1314
 Delta R.T. -0.02 min
 Lab File: BF093900.D
 Acq: 24 Mar 2017 11:31

Instrument :
 BNA_F
 ClientSampleId :
 E2-DD10-ESW

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.9	82.6	123.8	
160	46.9	36.2	54.2	

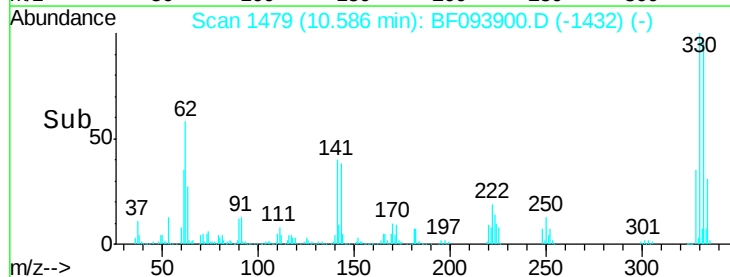
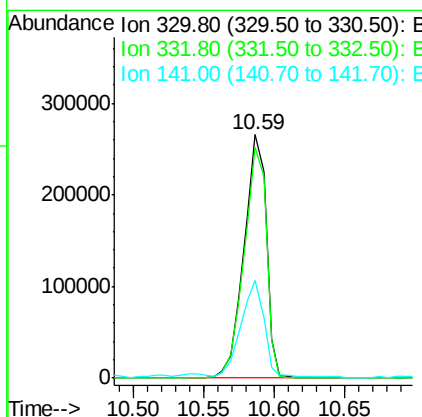
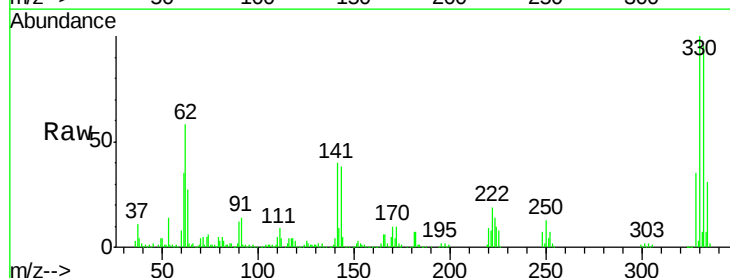
Manual Integrations
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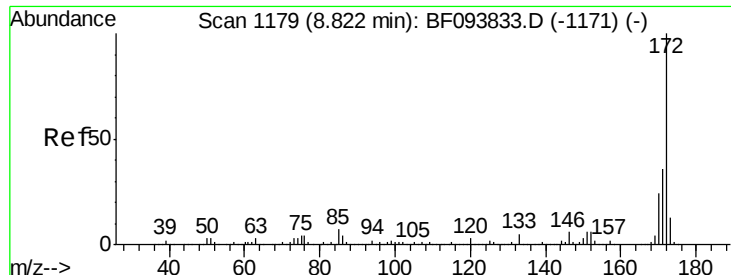
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#41
 2,4,6-Tribromophenol
 Concen: 99.75 ng
 RT: 10.59 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: BF093900.D
 Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.6	76.6	115.0	
141	40.2	31.4	47.2	





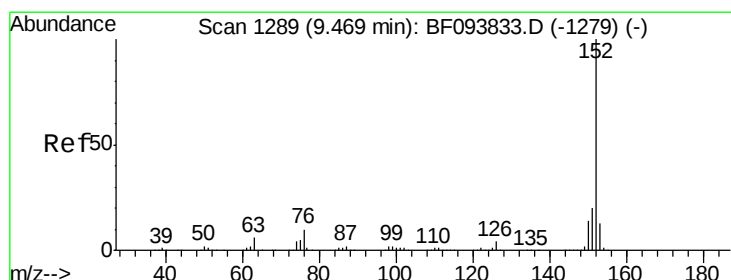
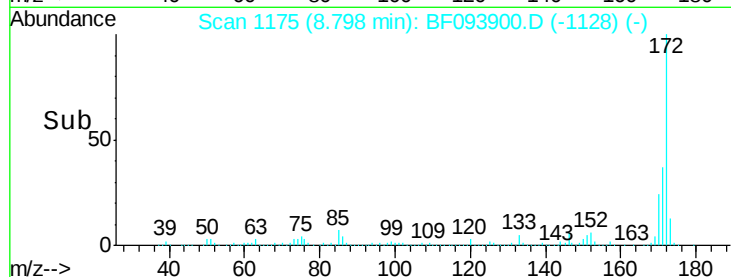
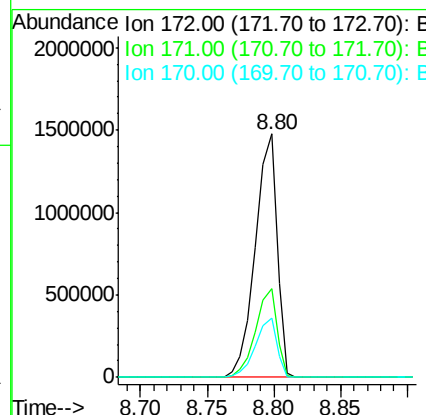
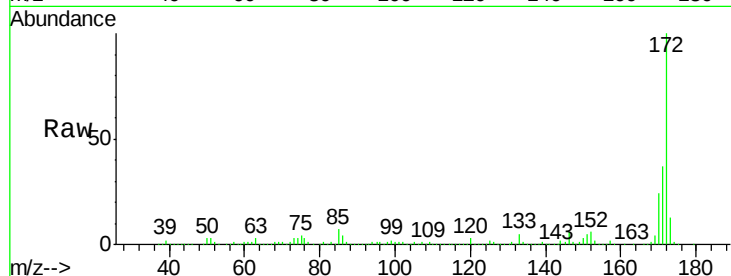
#44
2-Fluorobiphenyl
Concen: 67.11 ng
RT: 8.80 min Scan# 1175
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.6	44.4
170	24.3	19.8	29.8

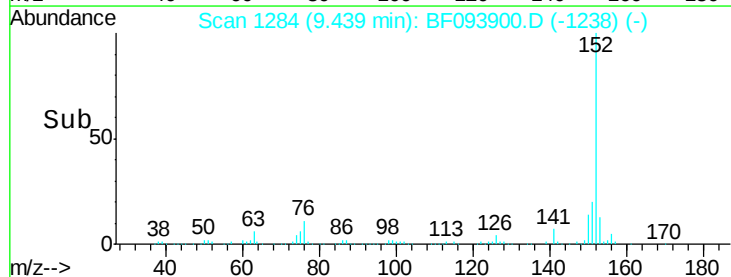
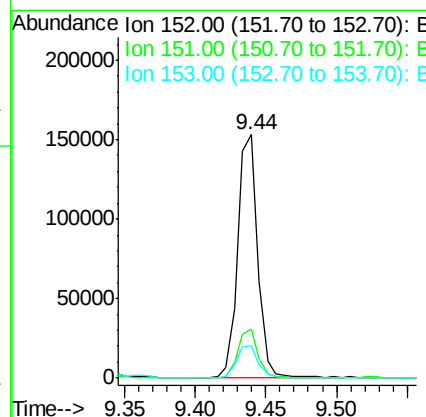
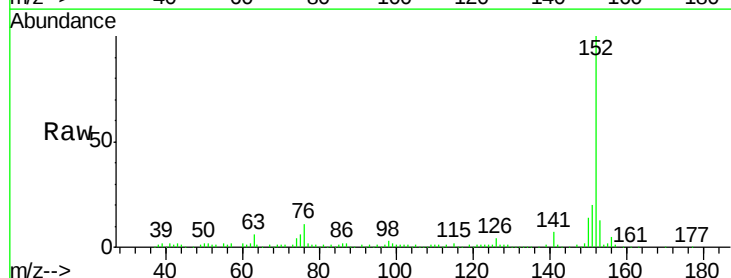
Manual Integrations
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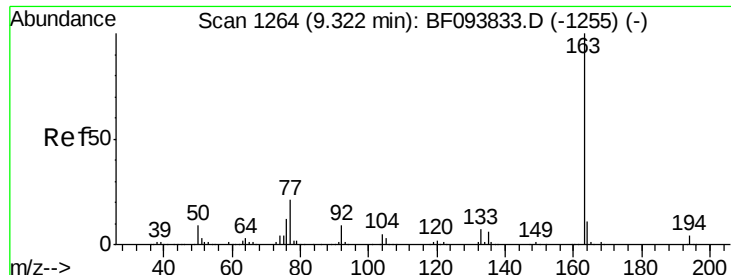
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#48
Acenaphthylene
Concen: 3.86 ng
RT: 9.44 min Scan# 1284
Delta R.T. -0.03 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.8	25.2
153	13.3	10.8	16.2





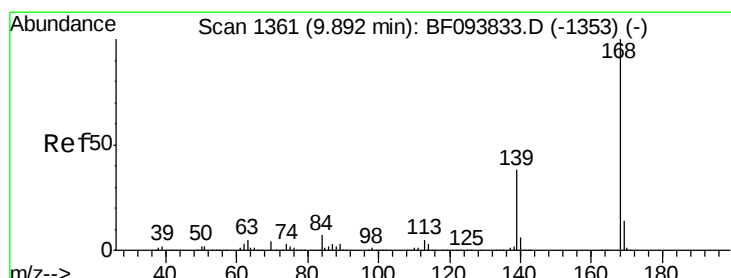
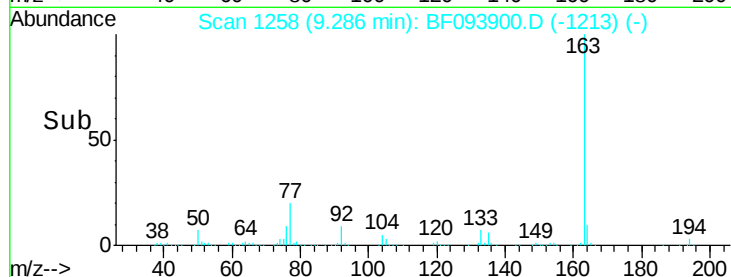
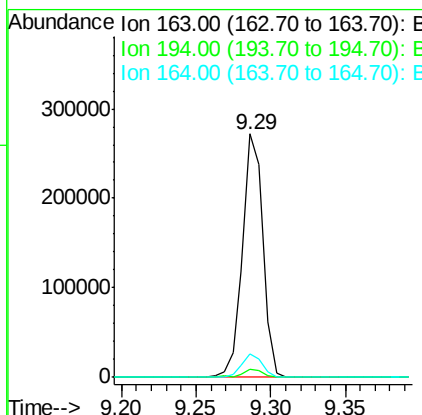
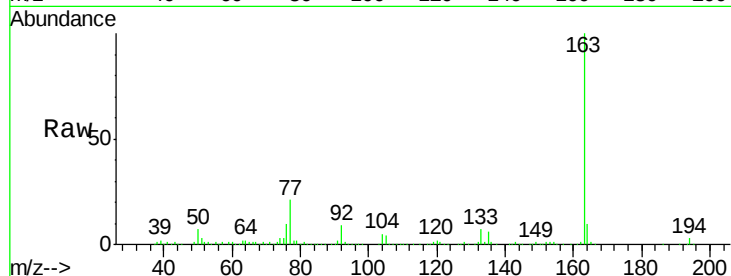
#49
Dimethylphthalate
Concen: 9.67 ng
RT: 9.29 min Scan# 1258
Delta R.T. -0.04 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

Tot Ion	Ratio	Resp	Lower	Upper
163	100	256919		
194	3.2		2.6	4.0
164	9.8		8.4	12.6

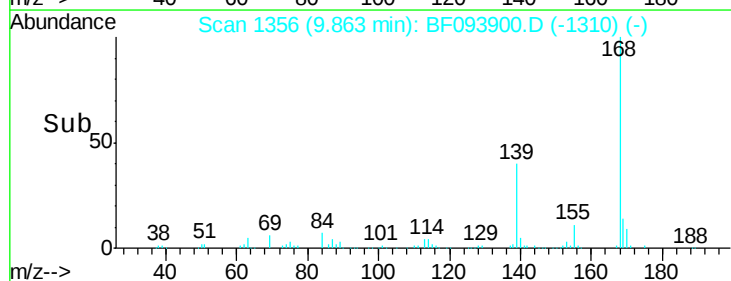
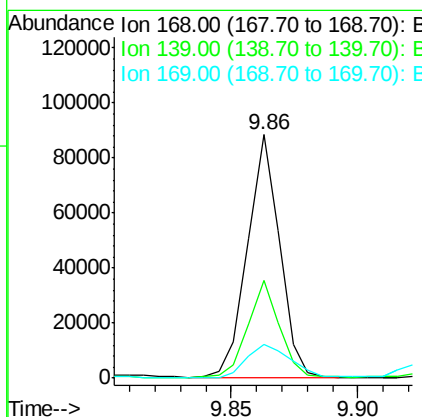
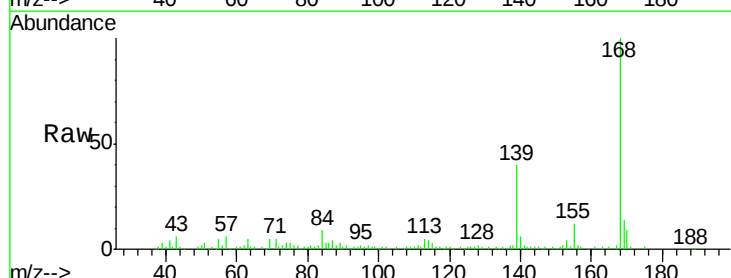
Manual Integrations
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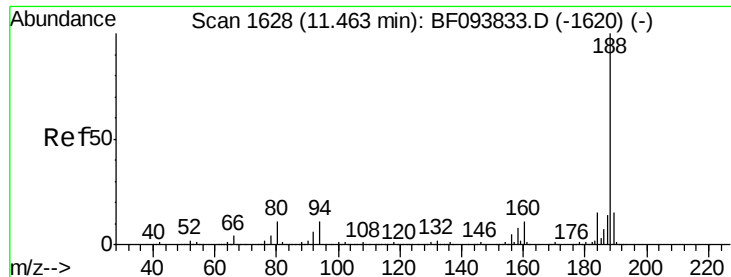
mohammad
3/27/2017 12:55:50 PM



#54
Dibenzofuran
Concen: 2.54 ng
RT: 9.86 min Scan# 1356
Delta R.T. -0.03 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	79007		
139	39.9		30.6	45.8
169	13.9		10.8	16.2





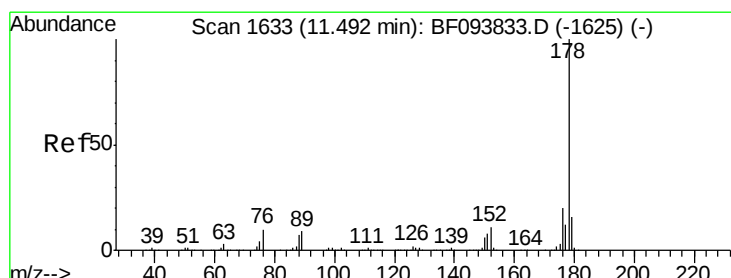
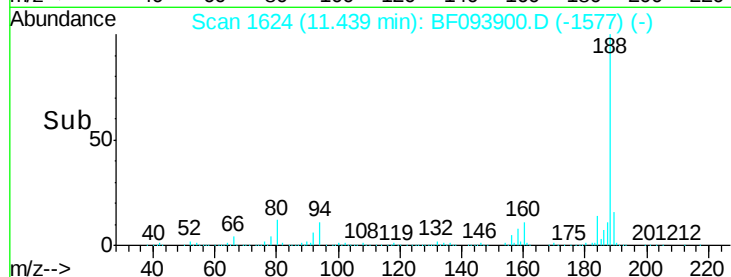
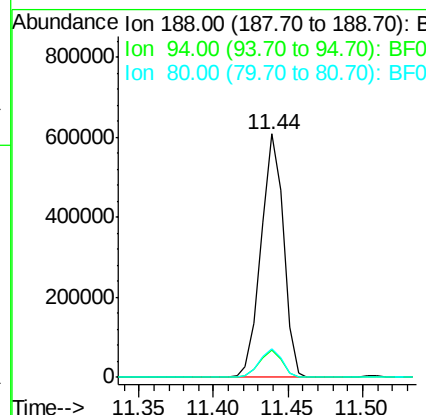
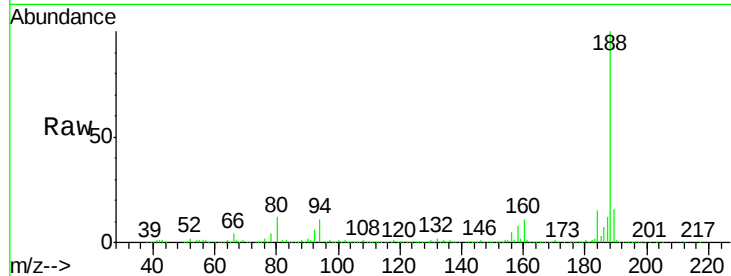
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.44 min Scan# 1624
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

Tot Ion	Ratio	Resp	Lower	Upper
188	100	627152		
94	11.1		9.4	14.2
80	12.0		10.2	15.2

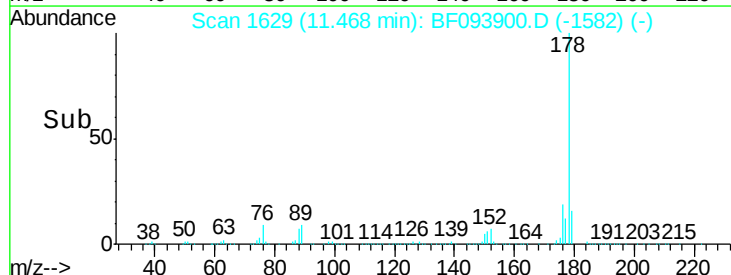
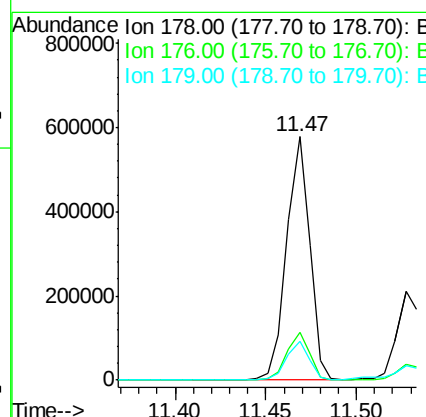
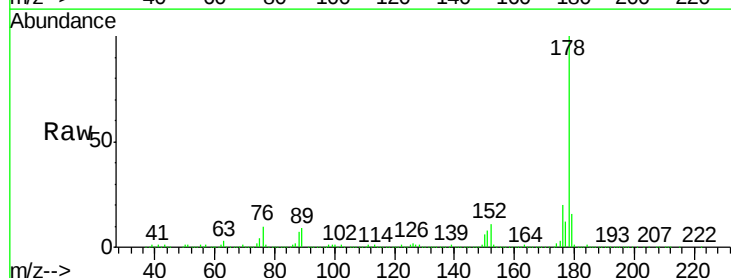
Manual Integrations
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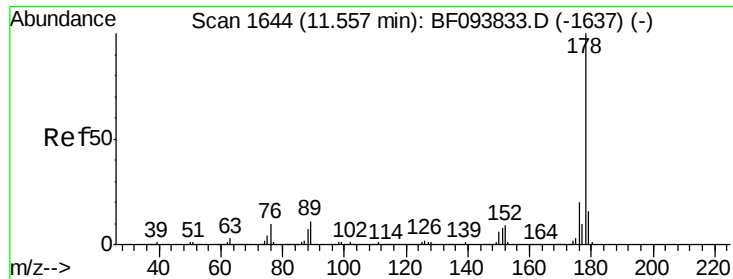
mohammad
3/27/2017 12:55:50 PM



#70
Phenanthrene
Concen: 14.73 ng
RT: 11.47 min Scan# 1629
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	514048		
176	19.6		16.2	24.4
179	16.0		12.6	19.0





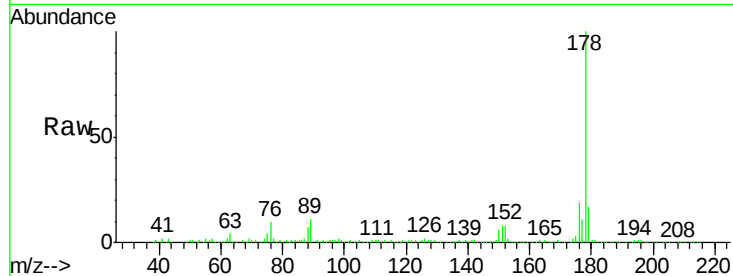
#71
 Anthracene
 Concen: 5.35 ng
 RT: 11.53 min Scan# 1639
 Delta R.T. -0.03 min
 Lab File: BF093900.D
 Acq: 24 Mar 2017 11:31

Instrument :
 BNA_F
 ClientSampleId :
 E2-DD10-ESW

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.8	23.8
179	16.9	12.7	19.1

Manual Integrations
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 3/27/2017 12:55:50 PM

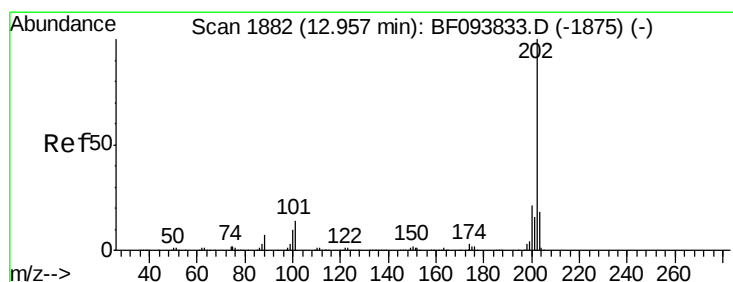
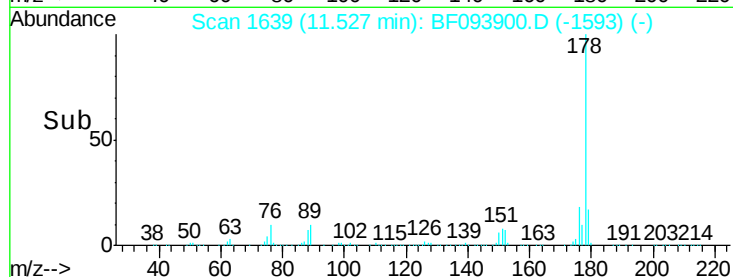
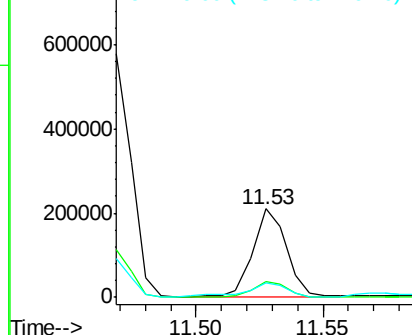


Abundance

Ion 178.00 (177.70 to 178.70): E

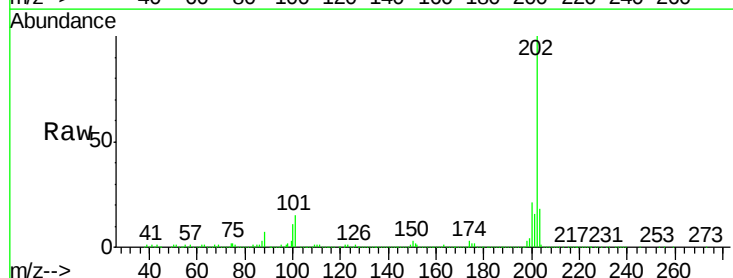
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74
 Fluoranthene
 Concen: 25.18 ng
 RT: 12.93 min Scan# 1878
 Delta R.T. -0.02 min
 Lab File: BF093900.D
 Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.8	0.0	33.2
203	17.8	0.0	38.1

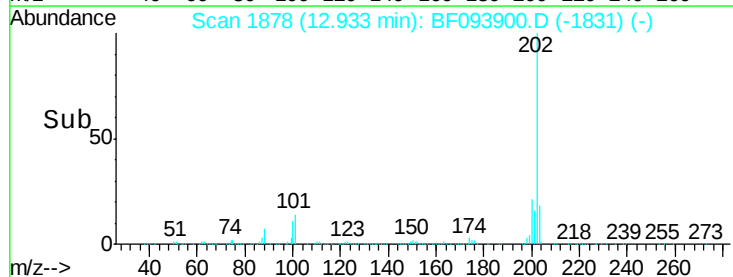
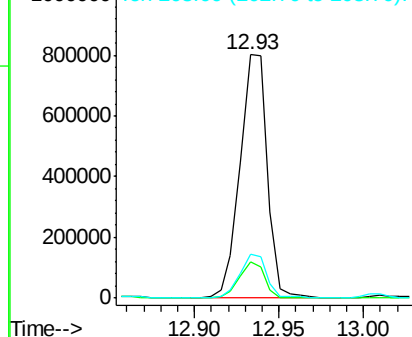


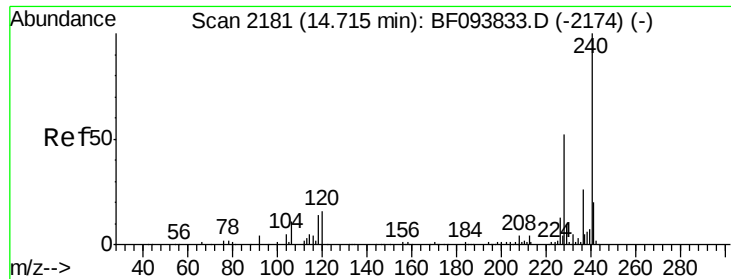
Abundance

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





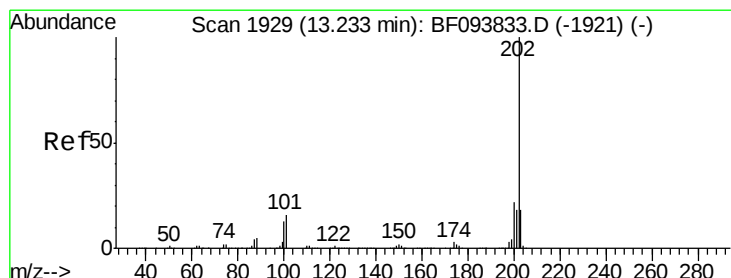
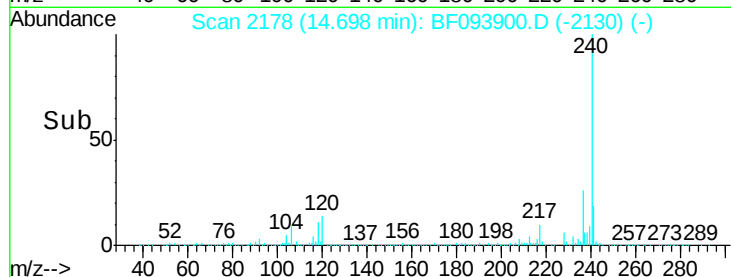
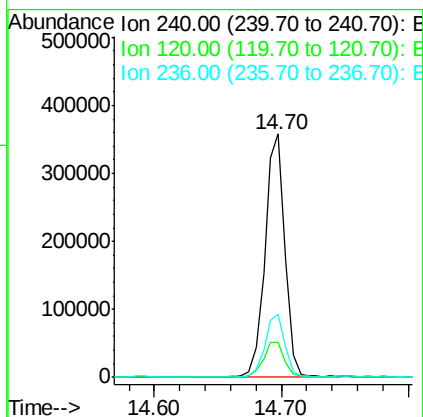
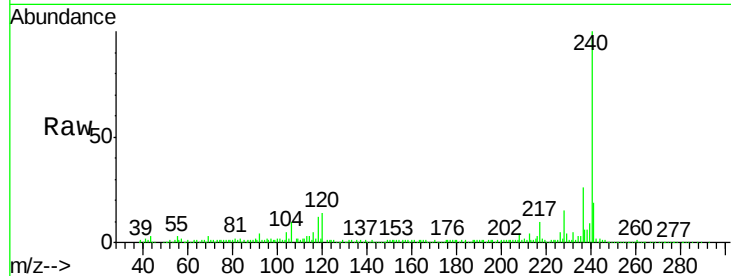
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.70 min Scan# 2178
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.4	5.8	8.8#
236	26.2	20.5	30.7

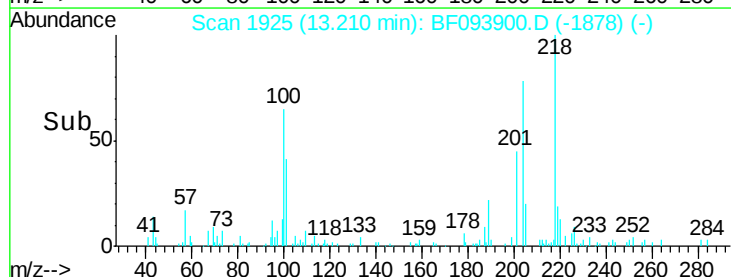
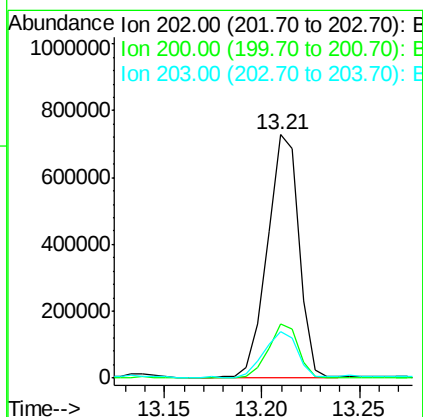
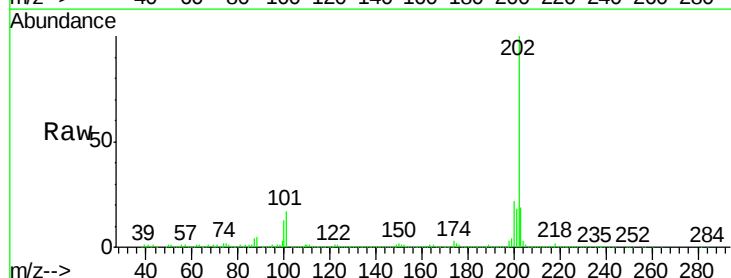
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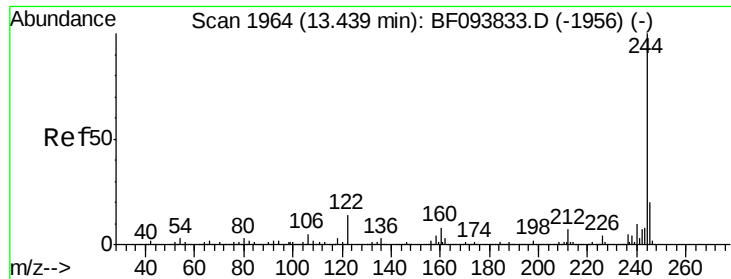
mohammad
3/27/2017 12:55:50 PM



#77
Pyrene
Concen: 28.80 ng
RT: 13.21 min Scan# 1925
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.6	26.4
203	19.0	14.4	21.6





#78

Terphenyl-d14

Concen: 60.47 ng

RT: 13.42 min Scan# 1961

Delta R.T. -0.02 min

Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

Instrument :

BNA_F

ClientSampleId :

E2-DD10-ESW

Tot Ion:244 Resp: 1046685

Ion Ratio Lower Upper

244 100

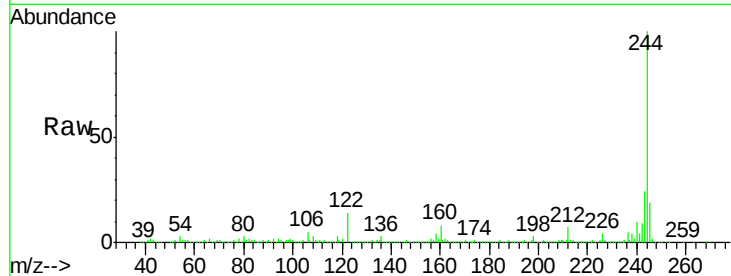
212 7.1 6.0 9.0

122 14.2 10.3 15.5

Manual Integrations
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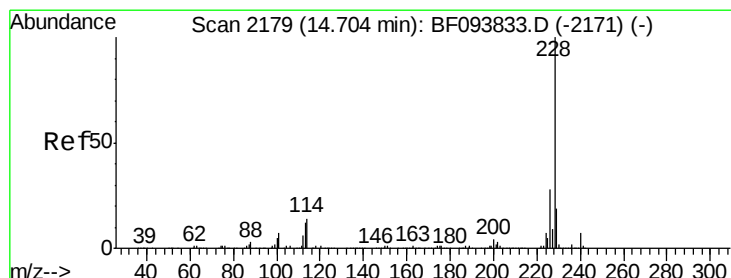
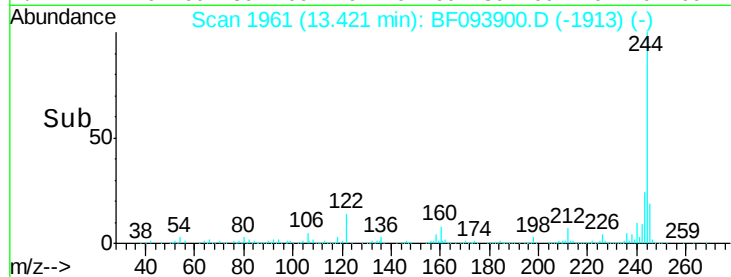
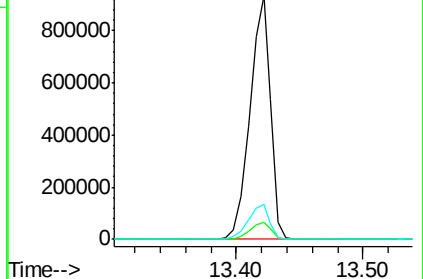
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 16.14 ng

RT: 14.69 min Scan# 2176

Delta R.T. -0.02 min

Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

Tgt Ion:228 Resp: 365056

Ion Ratio Lower Upper

228 100

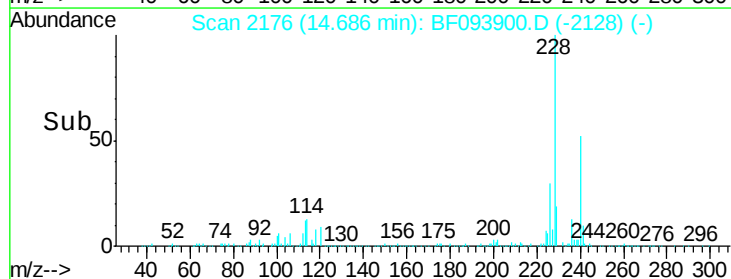
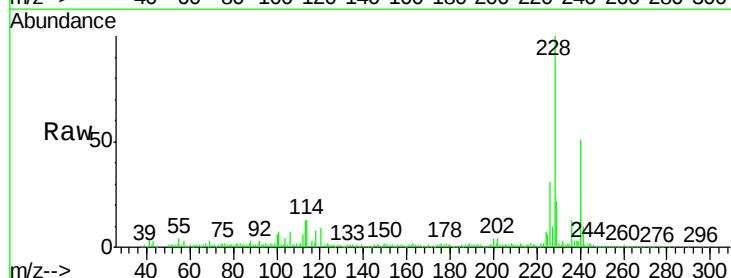
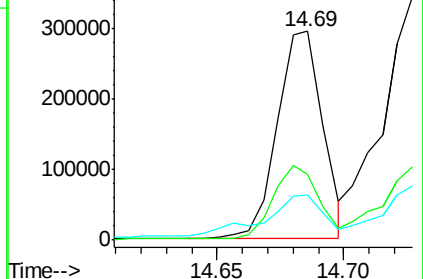
226 31.4 22.6 33.8

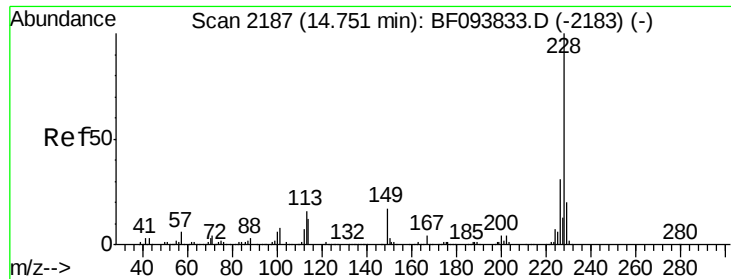
229 21.8 16.3 24.5

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





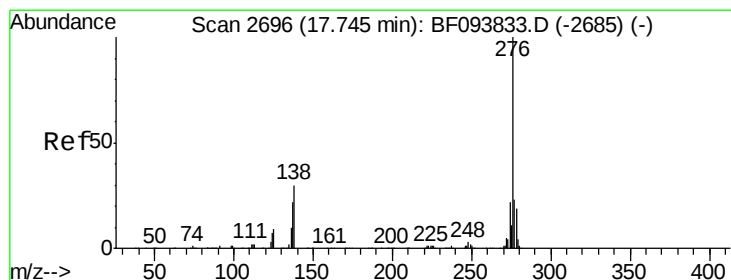
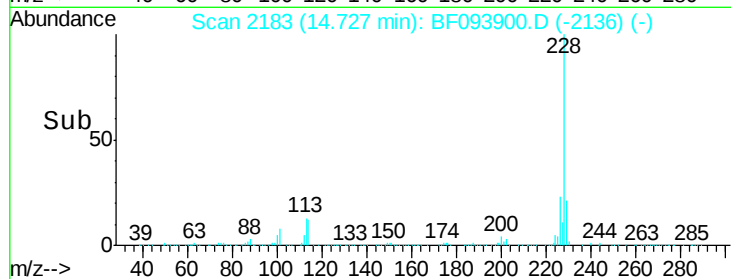
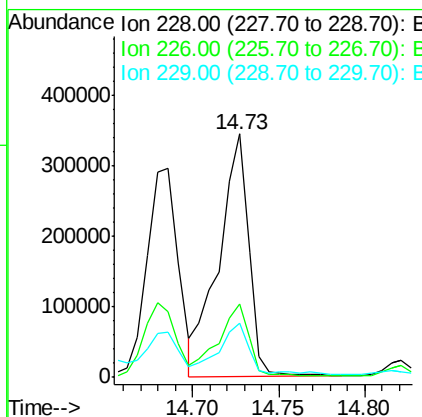
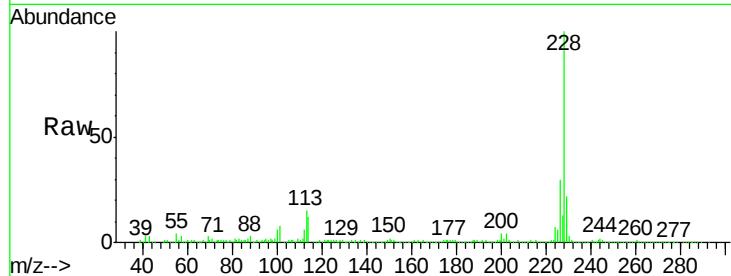
#82
Chrysene
Concen: 20.07 ng/ml
RT: 14.73 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

Tot Ion:	228	Resp:	421440
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.9	37.3
229	22.1	15.8	23.6

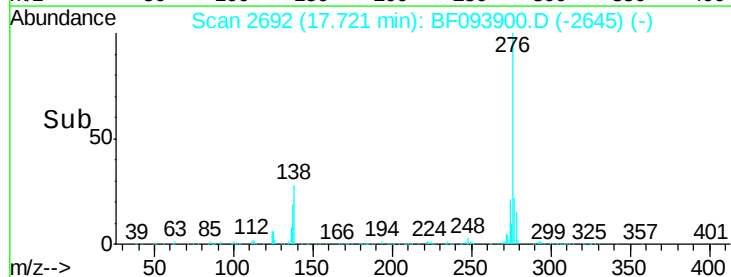
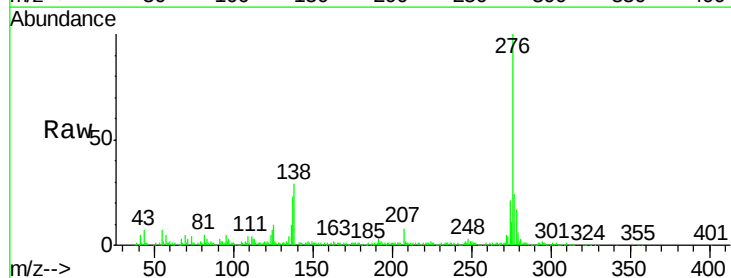
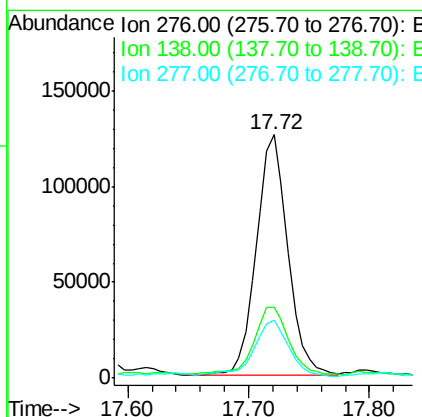
Manual Integrations
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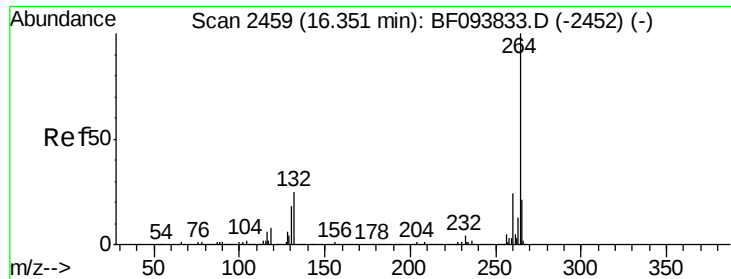
mohammad
3/27/2017 12:55:50 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 12.55 ng/ml
RT: 17.72 min Scan# 2692
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion:	276	Resp:	228115
Ion Ratio	Lower	Upper	
276	100		
138	31.2	27.8	41.6
277	25.6	20.2	30.4





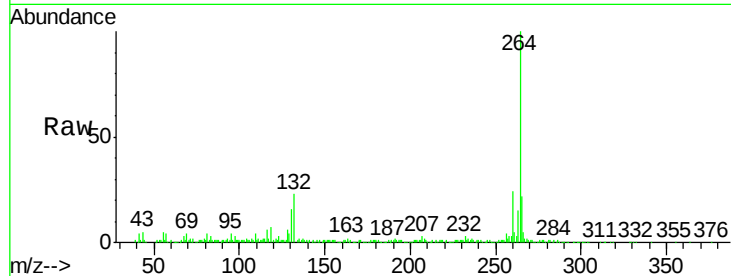
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.34 min Scan# 2457
Delta R.T. -0.01 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

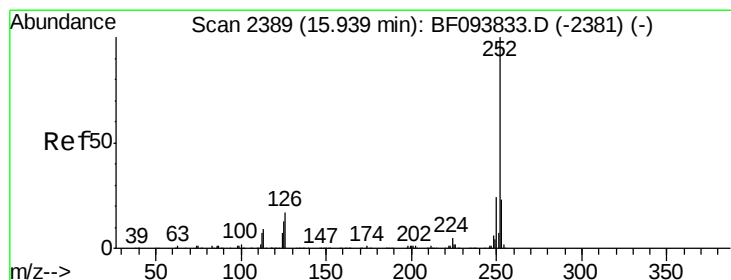
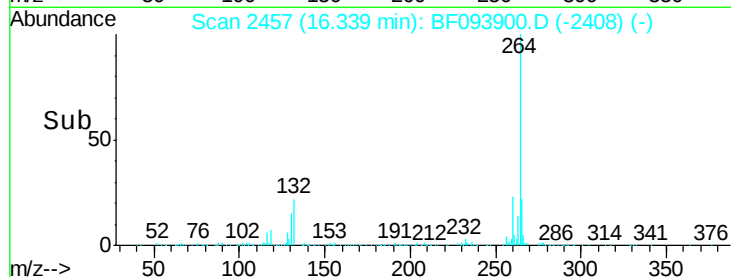
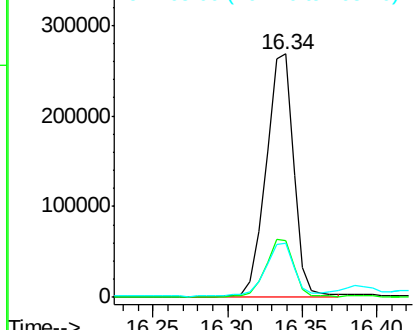
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	22.3	17.2	25.8

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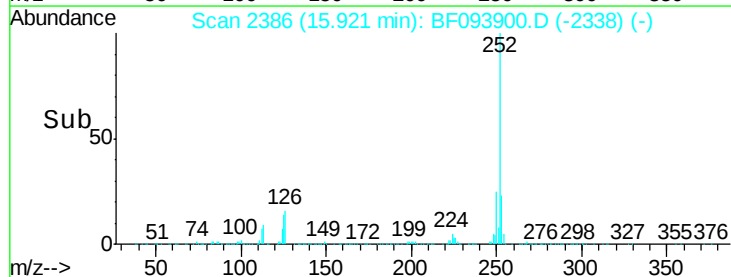
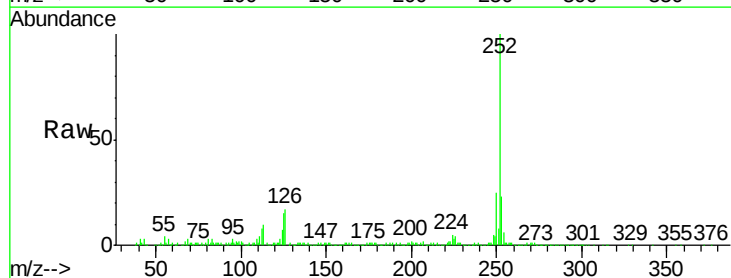
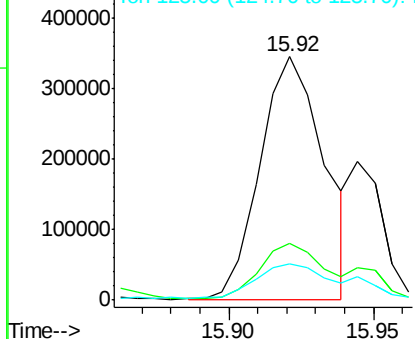
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

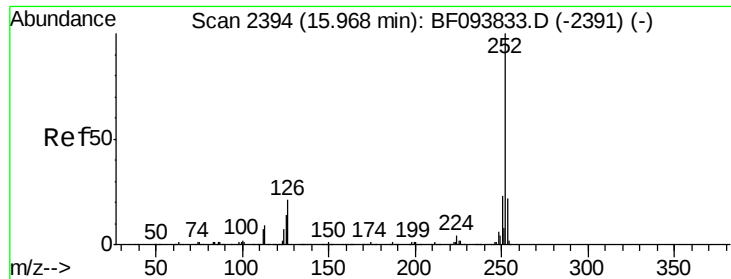


#87
Benzo(b)fluoranthene
Concen: 25.38 ng m
RT: 15.92 min Scan# 2386
Delta R.T. -0.02 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	14.9	9.8	14.8#

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: 7.68 ng/mL

RT: 15.94 min Scan# 2390

Delta R.T. -0.02 min

Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

Instrument :

BNA_F

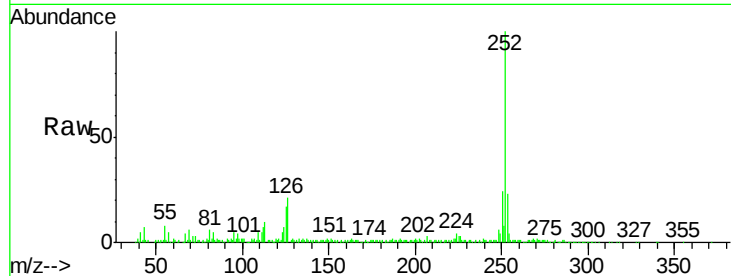
ClientSampleId :

E2-DD10-ESW

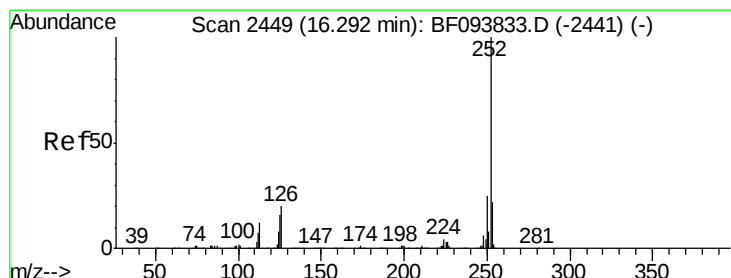
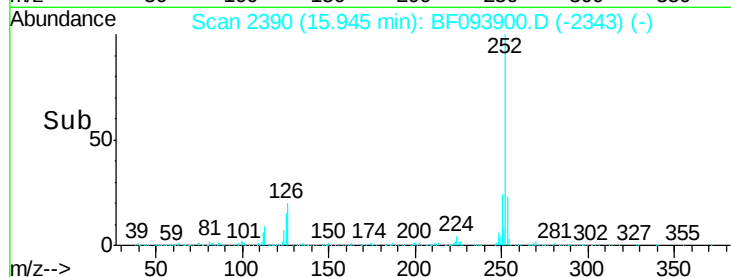
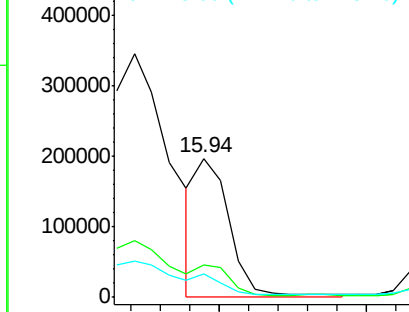
Tot Ion:	252	Resp:	158112
Ion Ratio	Lower	Upper	
252	100		
253	23.2	18.4	27.6
125	16.5	13.1	19.7

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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: 15.36 ng/mL

RT: 16.27 min Scan# 2446

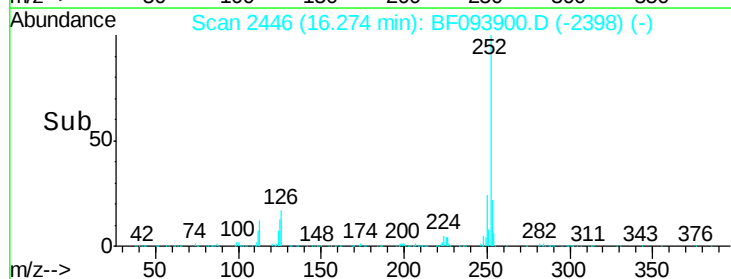
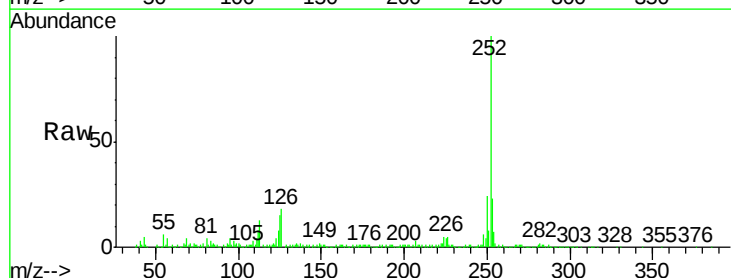
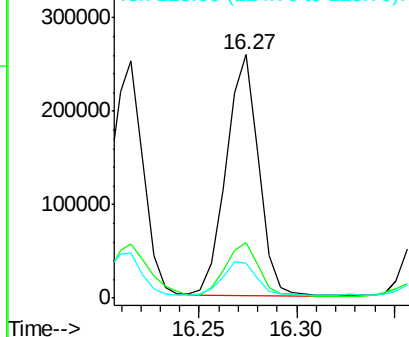
Delta R.T. -0.02 min

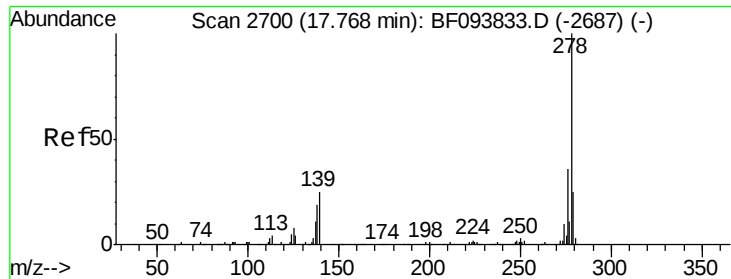
Lab File: BF093900.D

Acq: 24 Mar 2017 11:31

Tgt Ion:	252	Resp:	297523
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.5	26.3
125	14.6	11.0	16.4

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





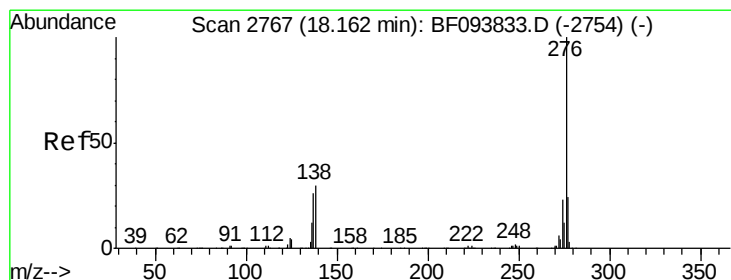
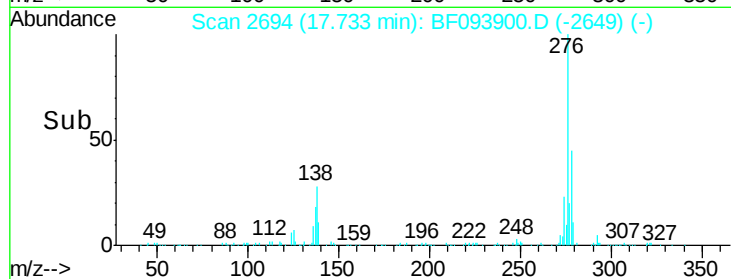
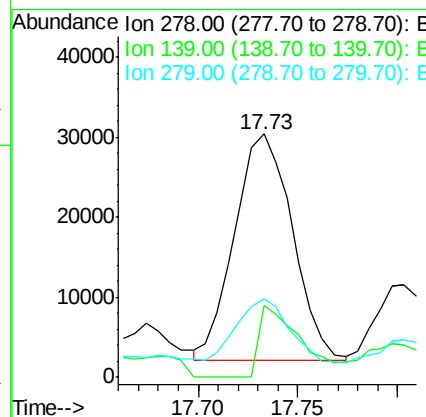
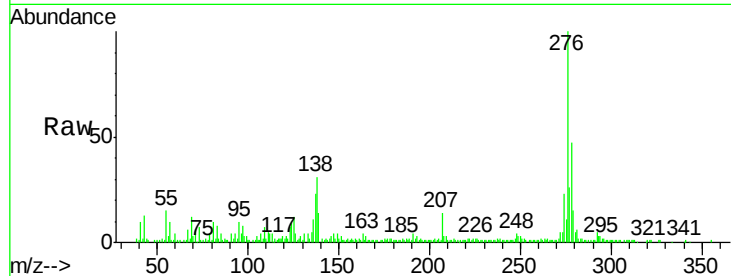
#90
Dibenzo(a,h)anthracene
Concen: 3.47 ng/mL
RT: 17.73 min Scan# 2694
Delta R.T. -0.04 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Instrument :
BNA_F
ClientSampleId :
E2-DD10-ESW

Tot Ion	Ratio	Lower	Upper
278	100		
139	29.5	16.6	24.8#
279	32.0	19.3	28.9#

Manual Integrations
APPROVED

mohammad
3/27/2017 12:55:50 PM



#91
Benzo(g,h,i)perylene
Concen: 12.86 ng/mL
RT: 18.13 min Scan# 2762
Delta R.T. -0.03 min
Lab File: BF093900.D
Acq: 24 Mar 2017 11:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.6	28.0
138	31.1	25.4	38.0

