

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
 Data File : BF093941.D
 Acq On : 27 Mar 2017 13:49
 Operator : SJ/MA
 Sample : I2364-03DL 4X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12DL

Manual Integrations
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Quant Time: Mar 27 16:31:57 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	184062	20.00	ng	0.00
21) Naphthalene-d8	7.46	136	762990	20.00	ng	0.00
38) Acenaphthene-d10	9.60	164	339033	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	543285	20.00	ng	0.00
75) Chrysene-d12	14.68	240	328052	20.00	ng	0.00
86) Perylene-d12	16.32	264	324895	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.47	112	38412	3.52	ng	0.00
7) Phenol-d6	5.54	99	272746	20.23	ng	-0.01
23) Nitrobenzene-d5	6.59	82	179291	13.41	ng	-0.01
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	8.77	172	467907	21.05	ng	0.00
78) Terphenyl-d14	13.40	244	292666	20.00	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.48	128	848674	23.13	ng	99
37) 2-Methylnaphthalene	8.32	142	469400	19.19	ng	98
45) 1,1'-Biphenyl	8.89	154	115466	4.22	ng	97
48) Acenaphthylene	9.42	152	400207	11.25	ng	99
51) Acenaphthene	9.63	154	85856	4.14	ng	98
54) Dibenzofuran	9.85	168	386985	13.69	ng	97
57) Fluorene	10.27	166	486722	20.77	ng	99
70) Phenanthrene	11.46	178	1668164	55.20	ng	99
71) Anthracene	11.52	178	789816	25.38	ng	98
72) Carbazole	11.71	167	171491	5.37	ng	97
74) Fluoranthene	12.92	202	1423166	45.99	ng	99
77) Pylene	13.20	202	1426560	59.92	ng	99
80) Benzo(a)anthracene	14.67	228	601104	31.42	ng	95
82) Chrysene	14.71	228	473772m	26.69	ng	
85) Indeno(1,2,3-cd)pyrene	17.69	276	211100	13.73	ng	95
87) Benzo(b)fluoranthene	15.90	252	557778m	28.01	ng	
88) Benzo(k)fluoranthene	15.93	252	146136m	7.50	ng	
89) Benzo(a)pyrene	16.25	252	442612	24.13	ng	94
90) Dibenzo(a,h)anthracene	17.70	278	56916	3.66	ng	# 90
91) Benzo(a,h,i)perylene	18.09	276	209203	13.37	ng	98

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

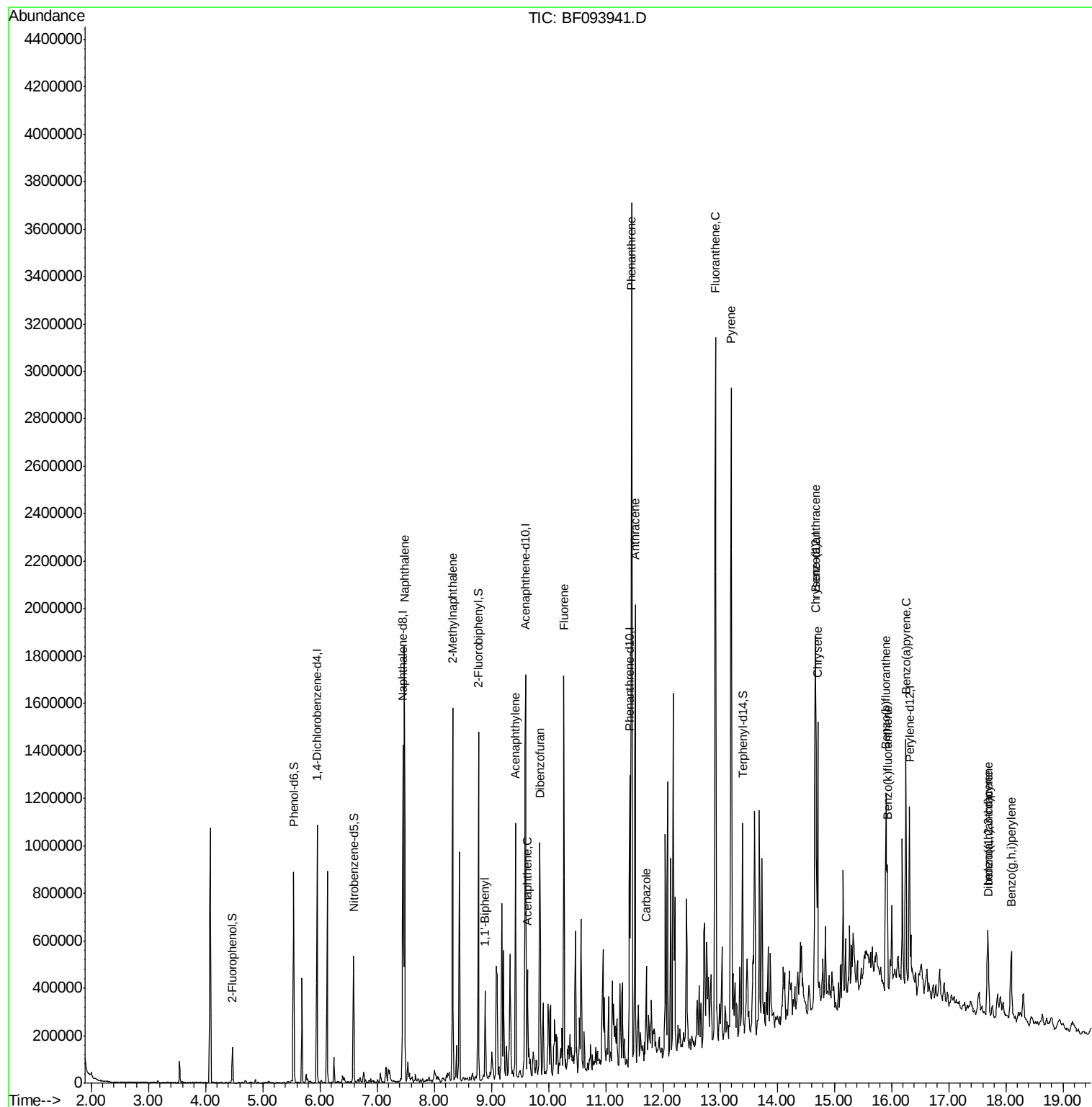
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
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ALS Vial : 5 Sample Multiplier: 1

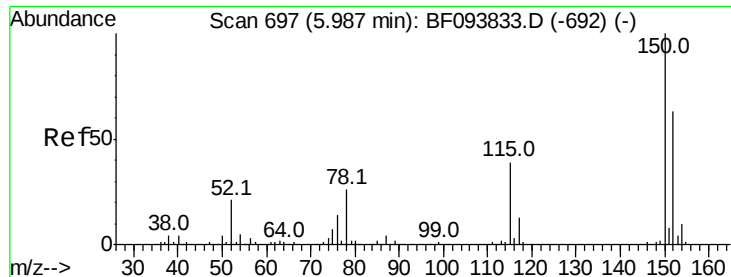
Instrument :
BNA_F
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Quant Time: Mar 27 16:31:57 2017
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#1

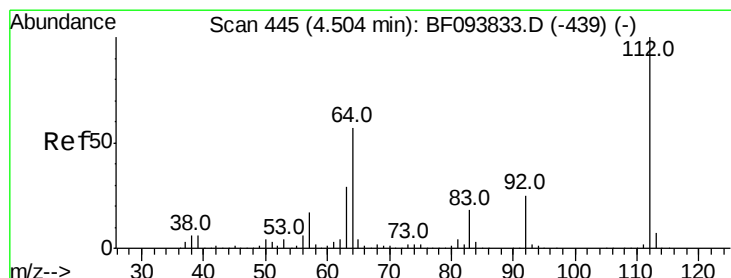
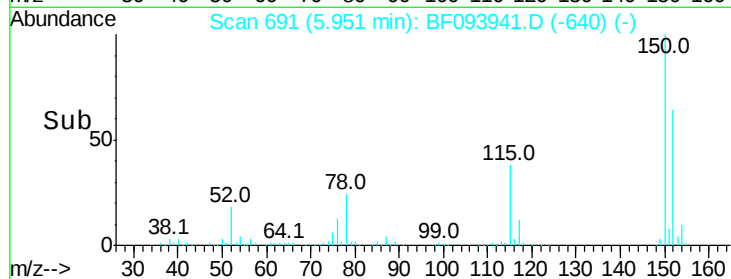
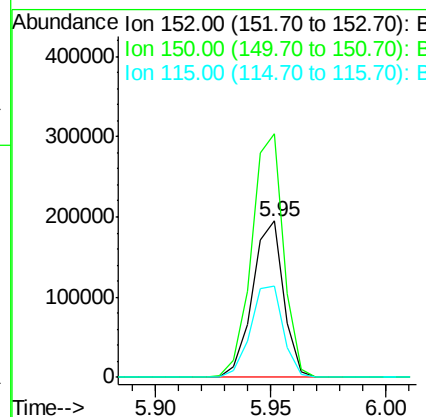
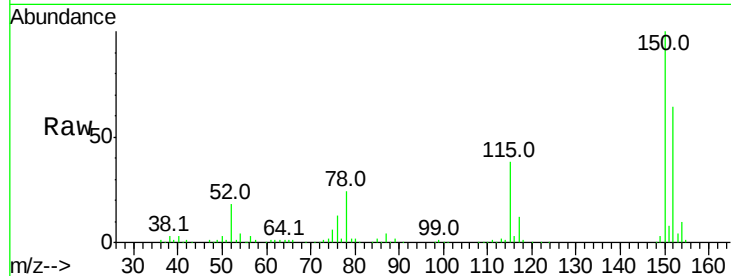
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.95 min Scan# 691
Delta R.T. 0.00 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.2	189.2
115	58.7	52.2	78.2

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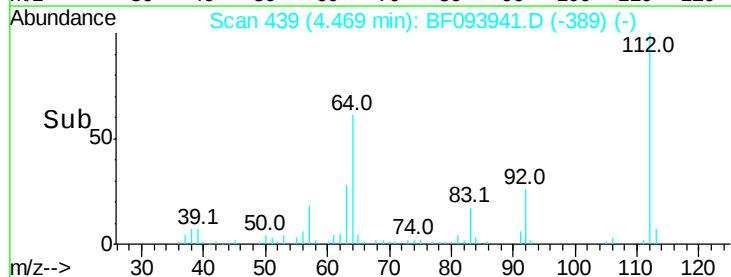
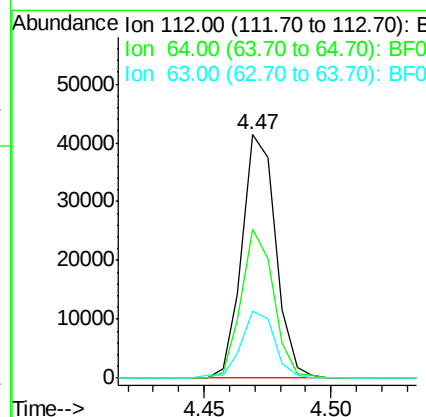
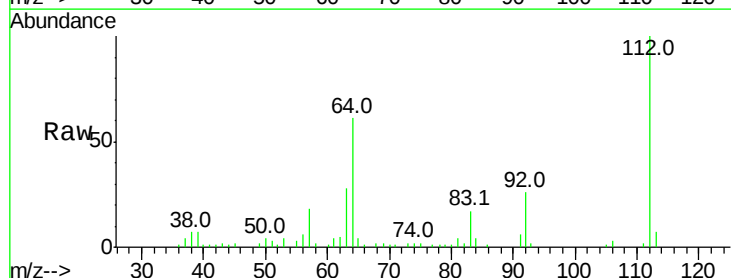
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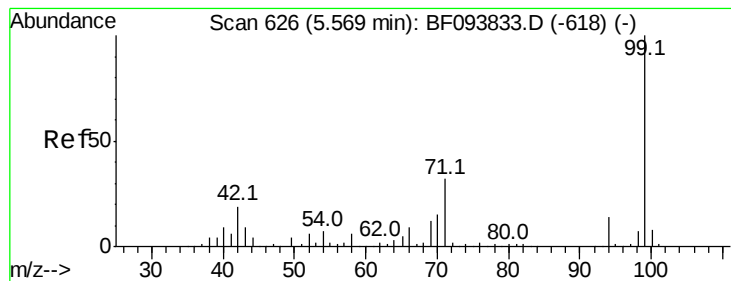


#5

2-Fluorophenol
Concen: 3.52 ng
RT: 4.47 min Scan# 439
Delta R.T. -0.01 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	46.0	69.0
63	27.7	23.4	35.0





#7

Phenol-d6

Concen: 20.23 ng

RT: 5.54 min Scan# 621

Delta R.T. -0.01 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Instrument :

BNA_F

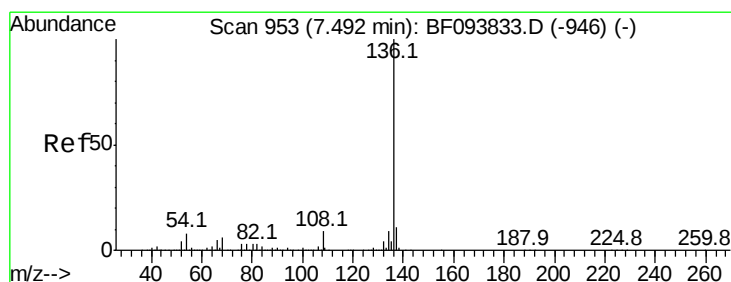
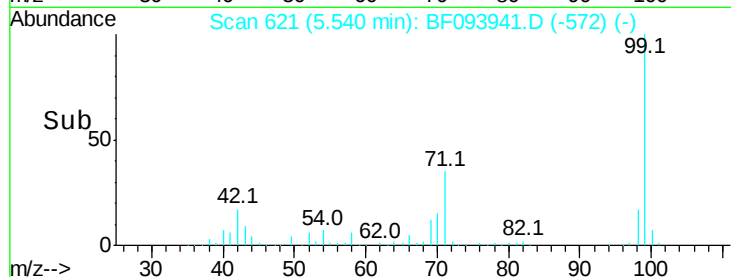
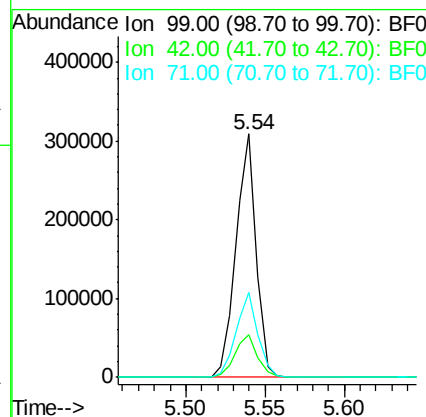
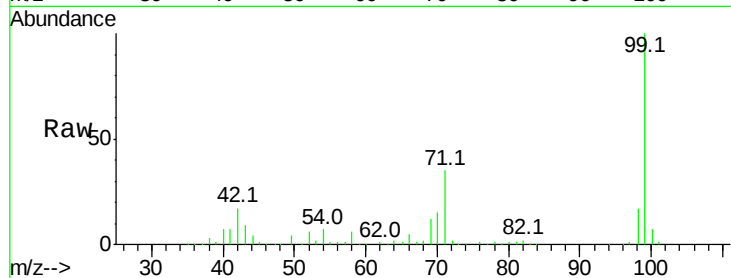
ClientSampleId :

WC-COMP-12DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		272746		
42	17.5	13.5	20.3		
71	34.8	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

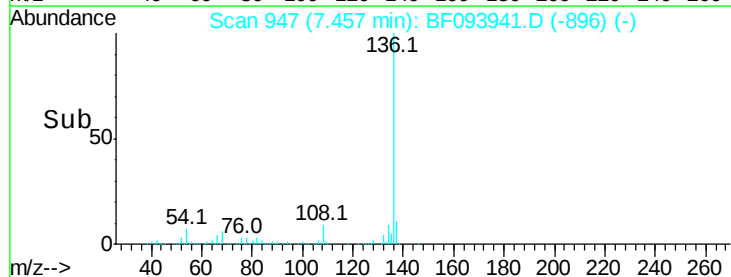
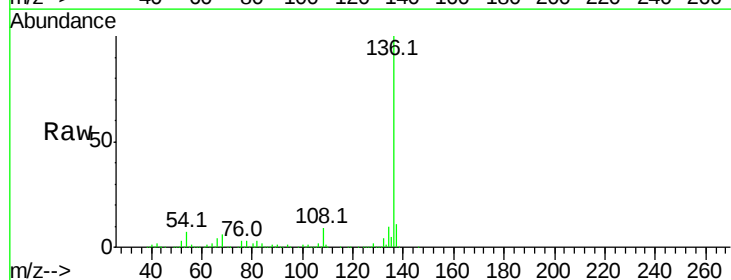
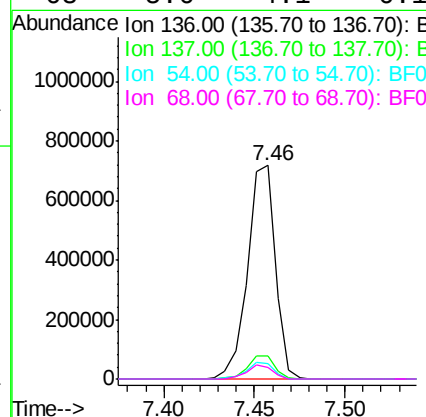
RT: 7.46 min Scan# 947

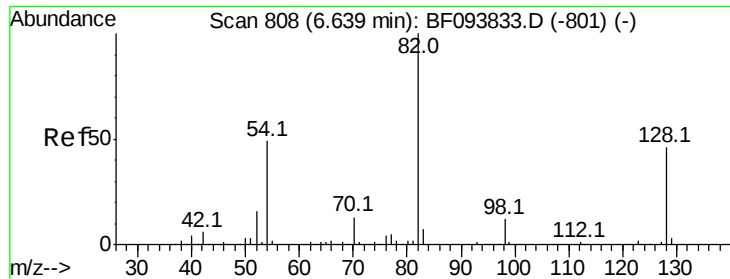
Delta R.T. 0.00 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		762990		
137	10.9	8.5	12.7		
54	7.1	4.9	7.3		
68	5.6	4.1	6.1		





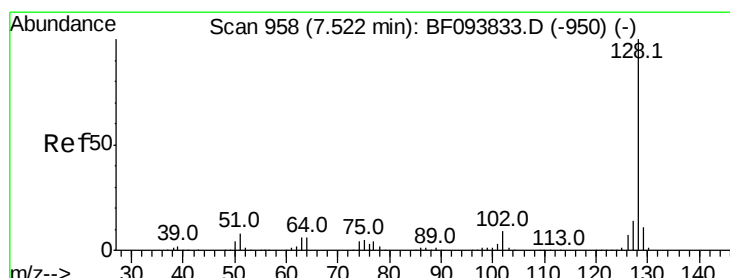
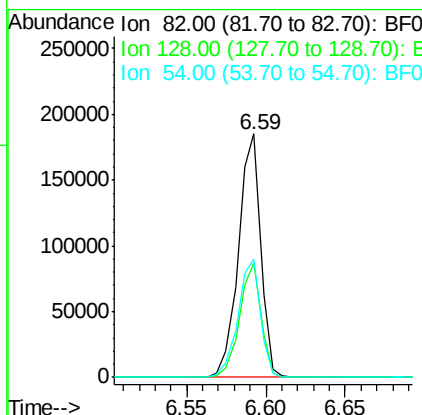
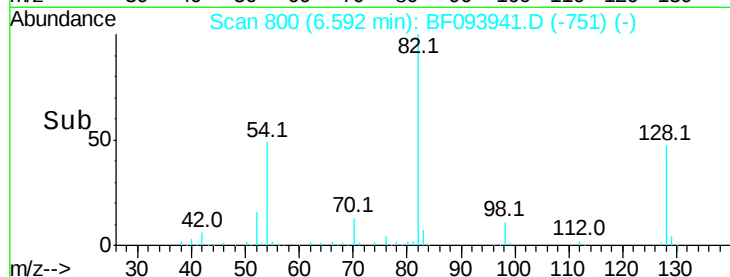
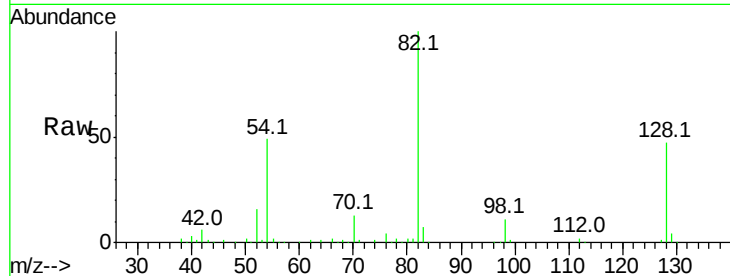
#23
 Nitrobenzene-d5
 Concen: 13.41 ng
 RT: 6.59 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.1	34.0	51.0
54	48.5	42.2	63.2

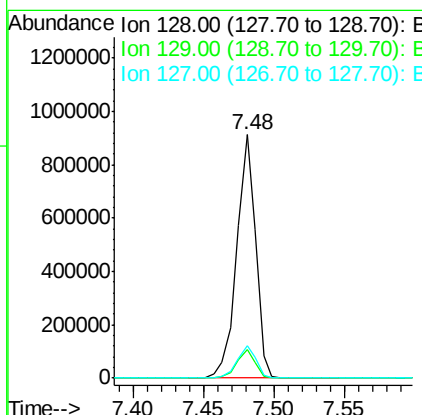
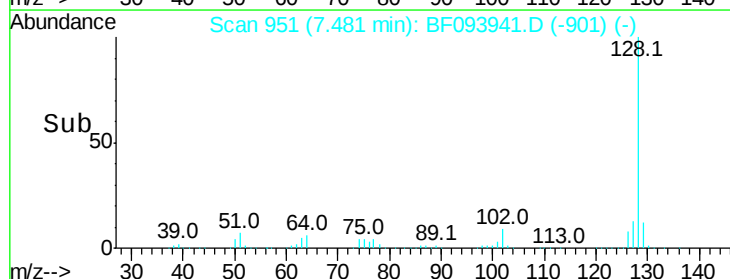
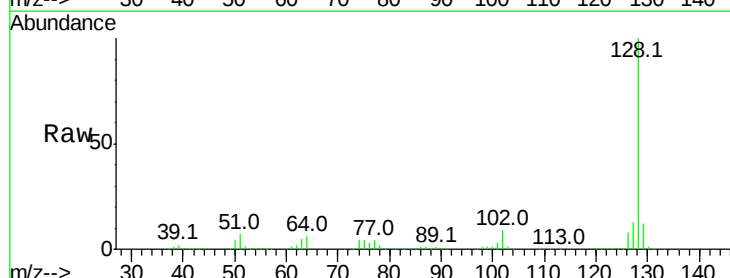
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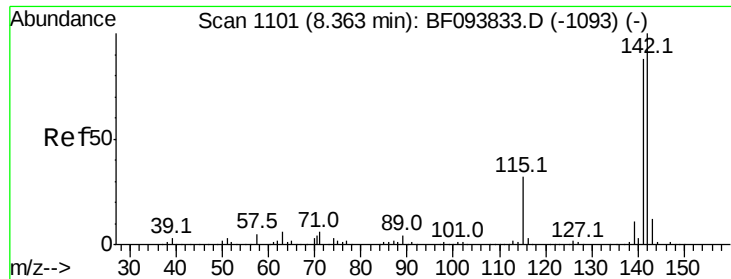
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#31
 Naphthalene
 Concen: 23.13 ng
 RT: 7.48 min Scan# 951
 Delta R.T. -0.01 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.0	13.6
127	13.2	10.8	16.2





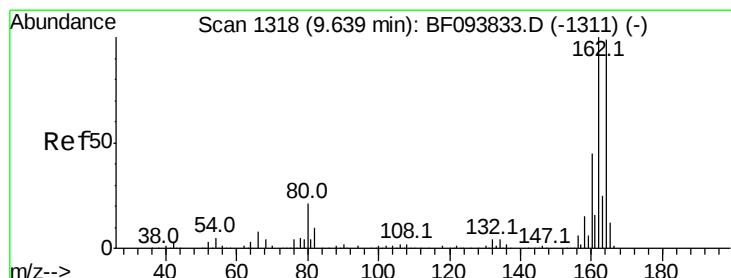
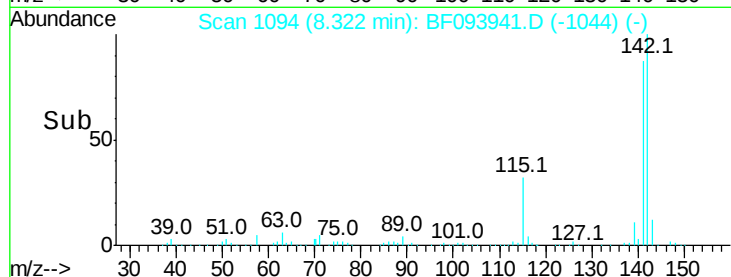
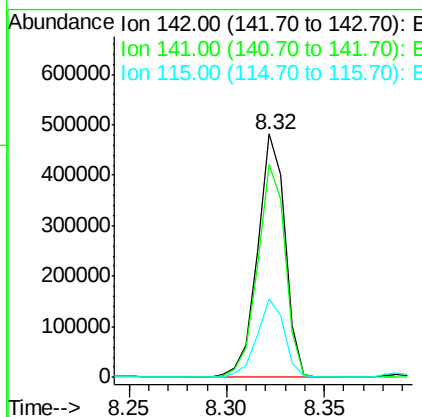
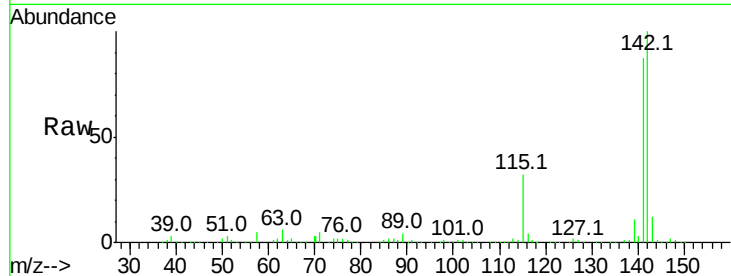
#37
2-Methylnaphthalene
Concen: 19.19 ng
RT: 8.32 min Scan# 1094
Delta R.T. -0.01 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.4	71.3	106.9
115	32.0	27.1	40.7

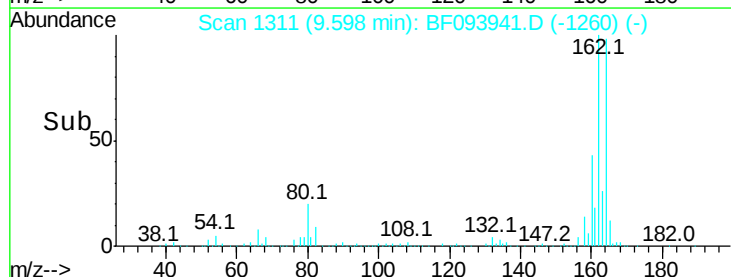
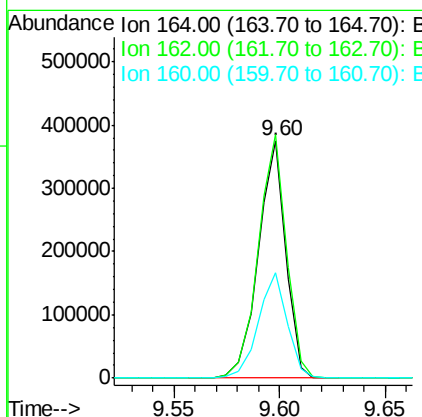
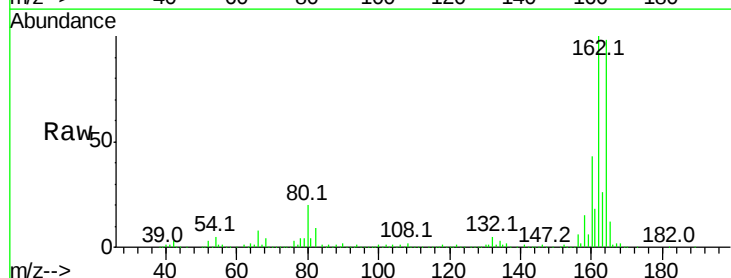
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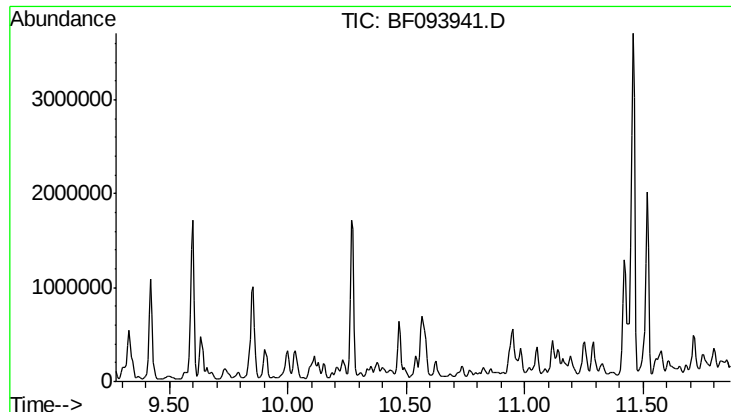
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.60 min Scan# 1311
Delta R.T. 0.00 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	82.6	123.8
160	44.6	36.2	54.2





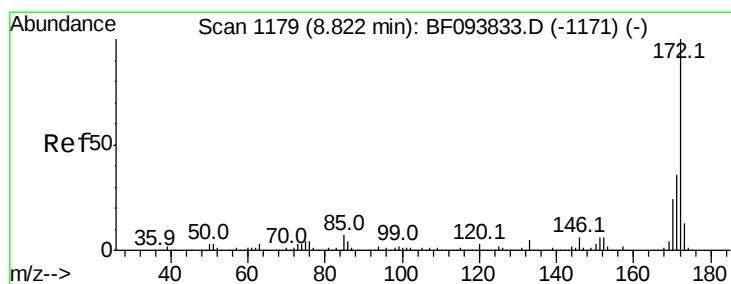
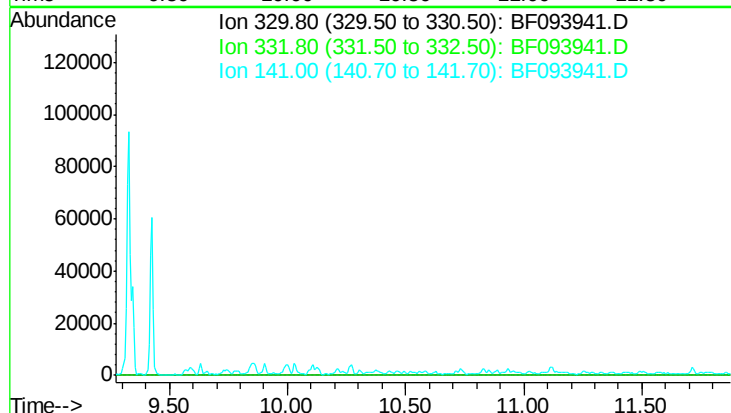
#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.57 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Tot Ion	330	332	141
Exp Ratio	100	95.8	39.3

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12DL

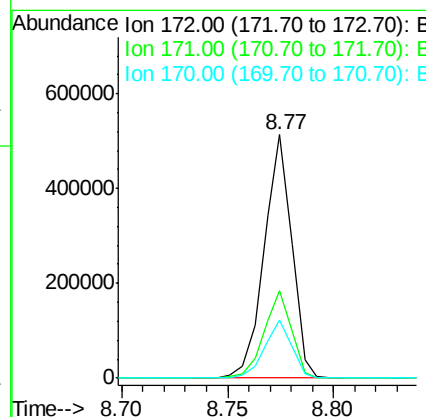
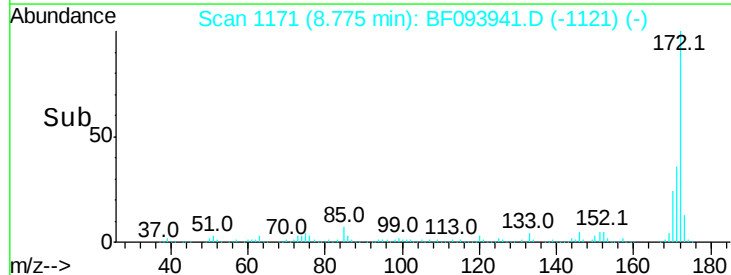
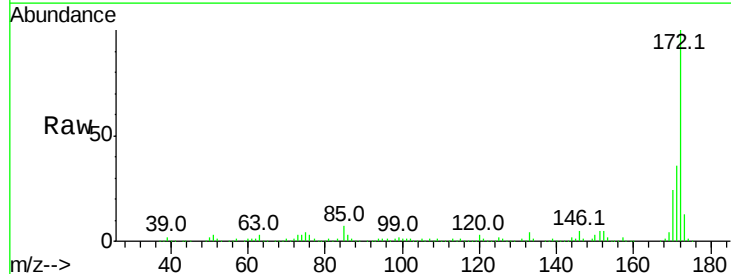
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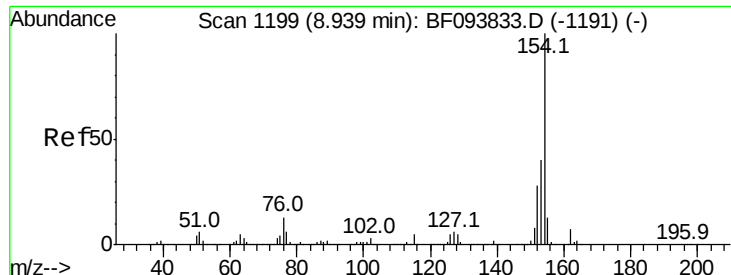
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#44
 2-Fluorobiphenyl
 Concen: 21.05 ng
 RT: 8.77 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Tgt Ion	172	Resp	Lower	Upper
Ion Ratio	100			
171	36.2	29.6	44.4	
170	23.8	19.8	29.8	





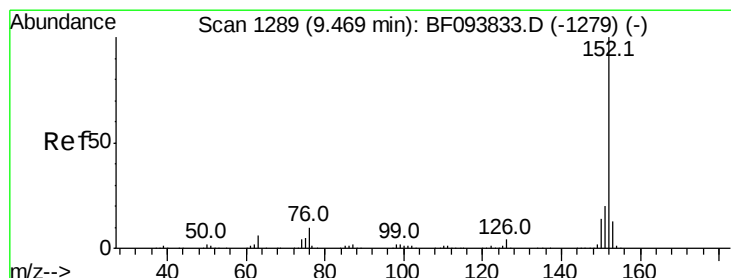
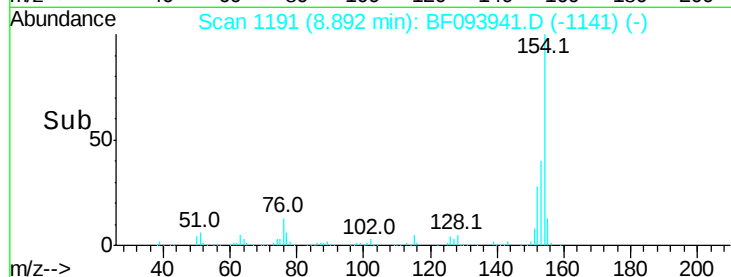
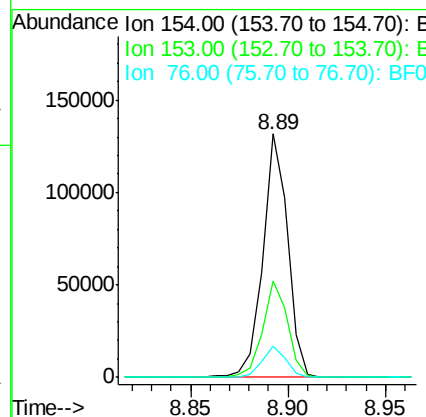
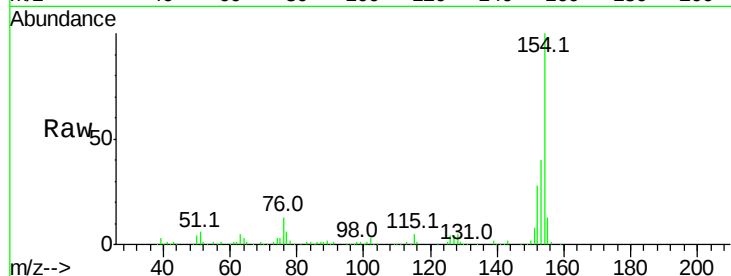
#45
 1,1'-Biphenyl
 Concen: 4.22 ng
 RT: 8.89 min Scan# 1191
 Delta R.T. -0.01 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12DL

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	39.9	21.2	61.2	
76	13.0	0.0	29.9	

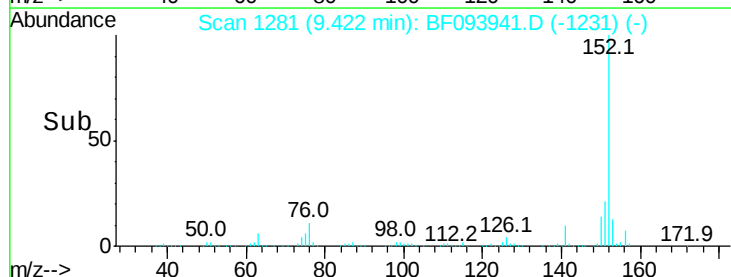
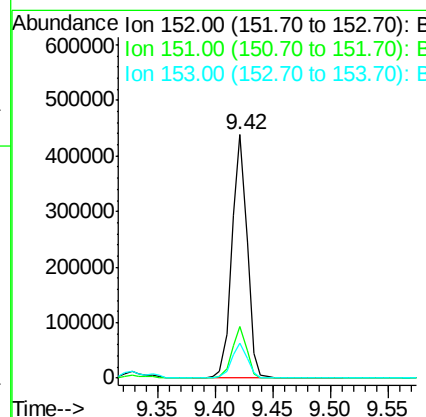
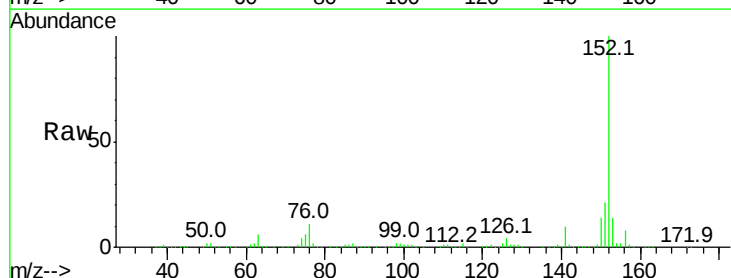
Manual Integrations
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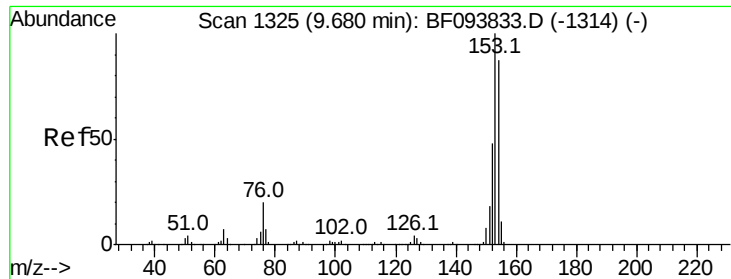
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#48
 Acenaphthylene
 Concen: 11.25 ng
 RT: 9.42 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	21.0	16.8	25.2	
153	14.3	10.8	16.2	





#51

Acenaphthene

Concen: 4.14 ng

RT: 9.63 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Instrument :

BNA_F

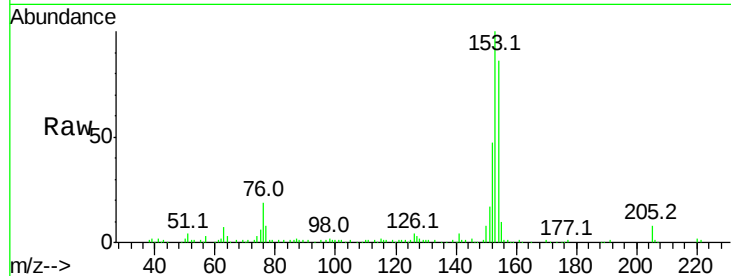
ClientSampleId :

WC-COMP-12DL

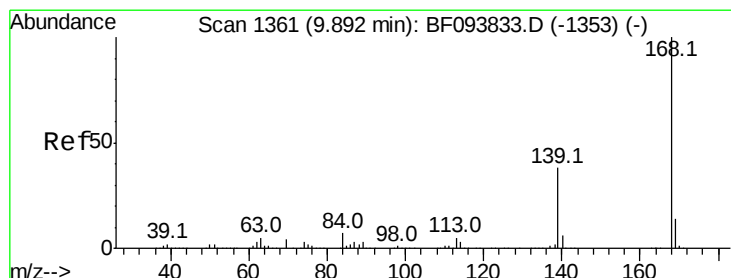
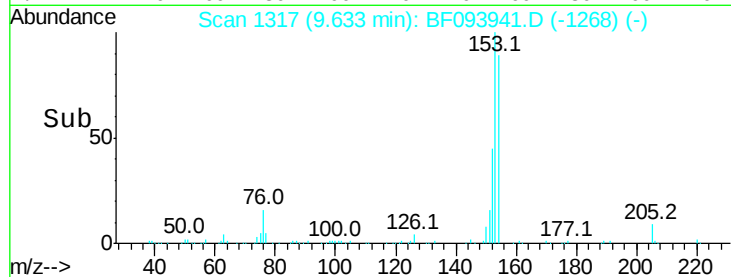
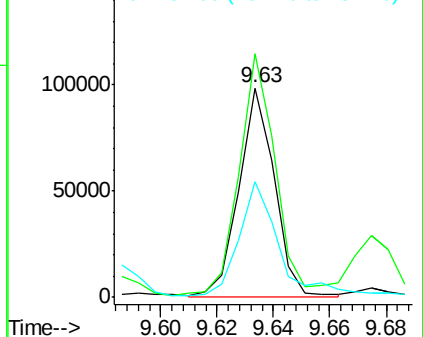
Tot Ion:	154	Resp:	85856
Ion	Ratio	Lower	Upper
154	100		
153	116.5	90.5	135.7
152	55.3	43.6	65.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 13.69 ng

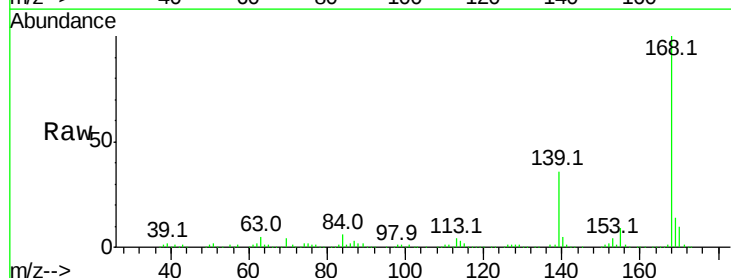
RT: 9.85 min Scan# 1354

Delta R.T. -0.01 min

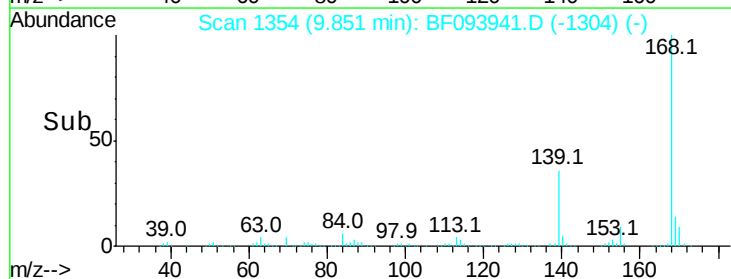
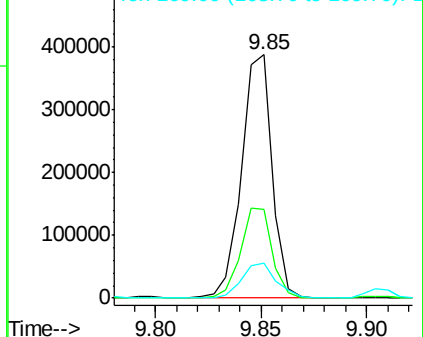
Lab File: BF093941.D

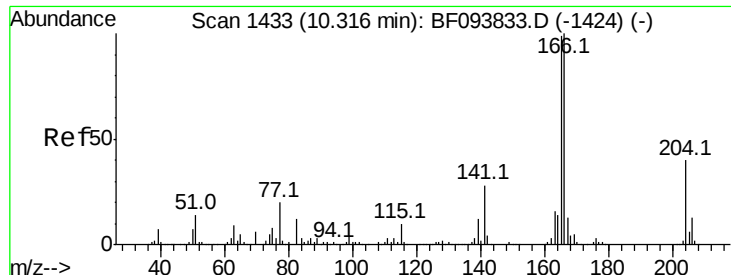
Acq: 27 Mar 2017 13:49

Tgt Ion:	168	Resp:	386985
Ion	Ratio	Lower	Upper
168	100		
139	36.2	30.6	45.8
169	14.5	10.8	16.2



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





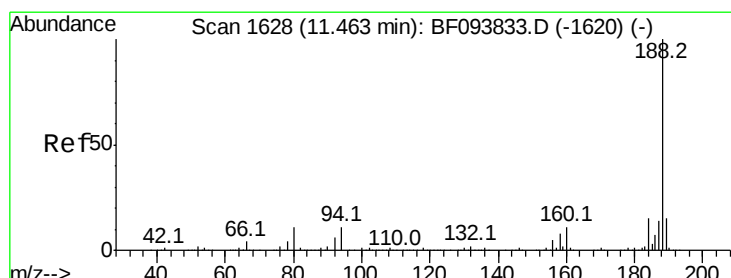
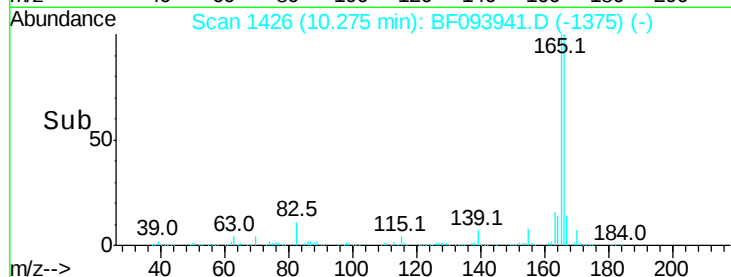
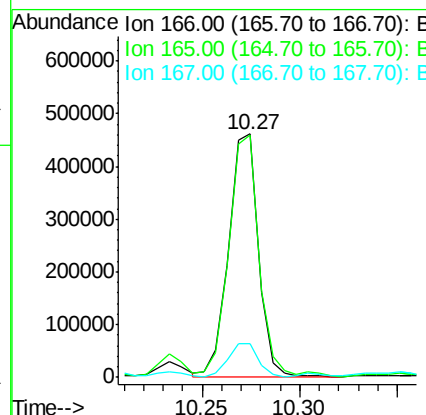
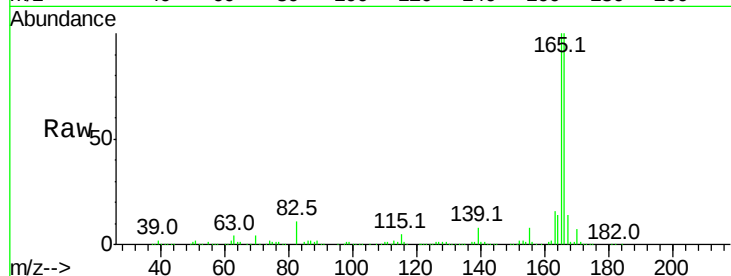
#57
Fluorene
 Concen: 20.77 ng
 RT: 10.27 min Scan# 1426
 Delta R.T. 0.00 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.8	78.8	118.2
167	14.0	10.6	16.0

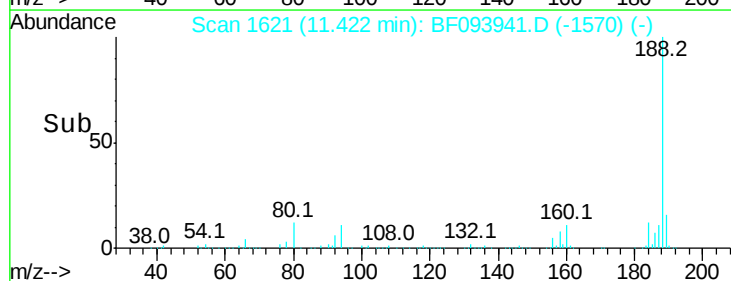
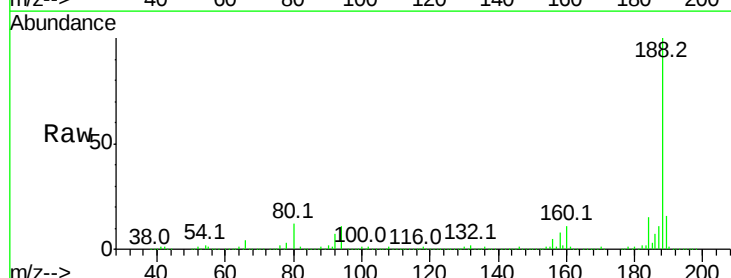
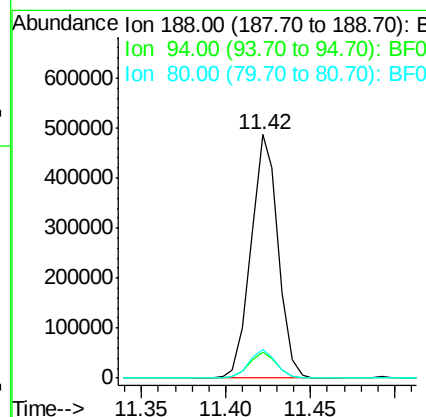
Manual Integrations
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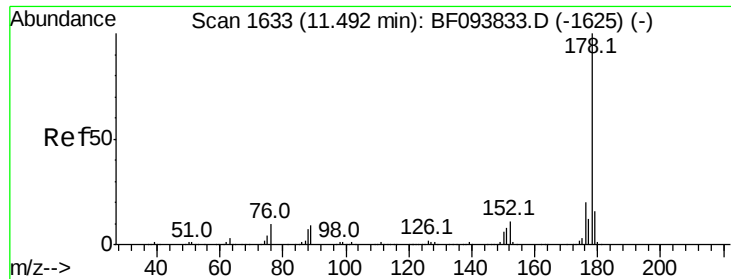
mohammad
 3/28/2017 3:42:58 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	9.4	14.2
80	11.9	10.2	15.2





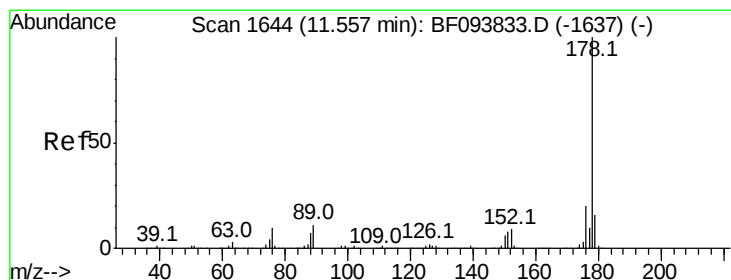
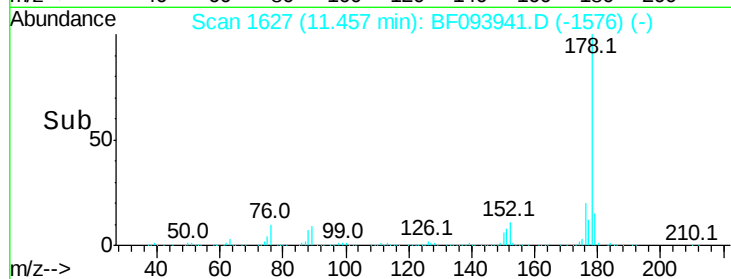
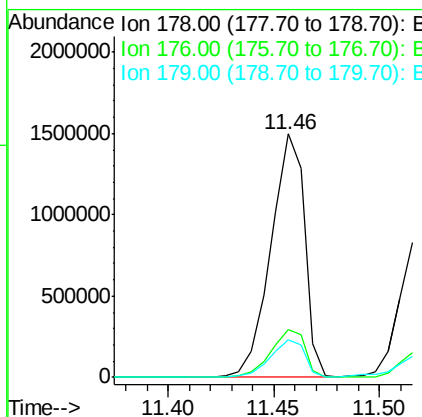
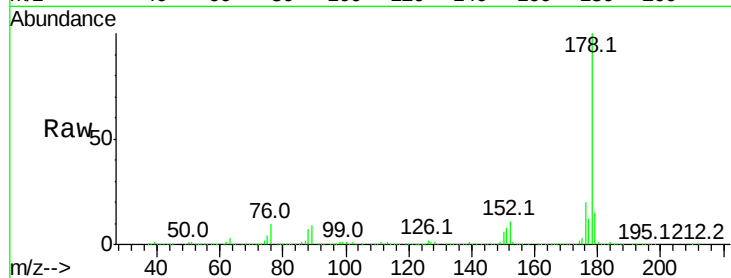
#70
Phenanthrene
Concen: 55.20 ng
RT: 11.46 min Scan# 1627
Delta R.T. 0.00 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12DL

Tot Ion:178 Resp: 1668164
Ion Ratio Lower Upper
178 100
176 19.7 16.2 24.4
179 15.4 12.6 19.0

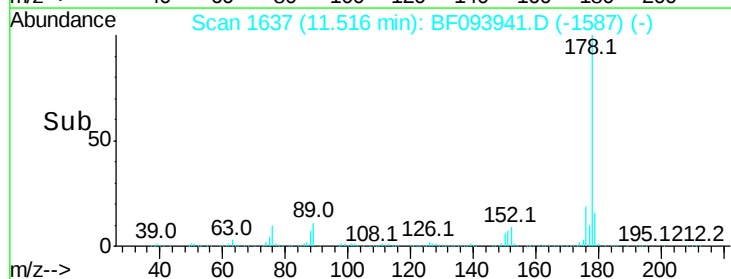
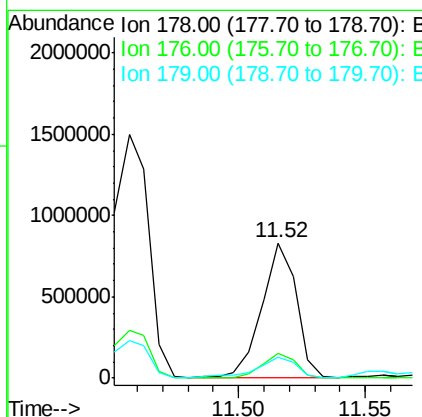
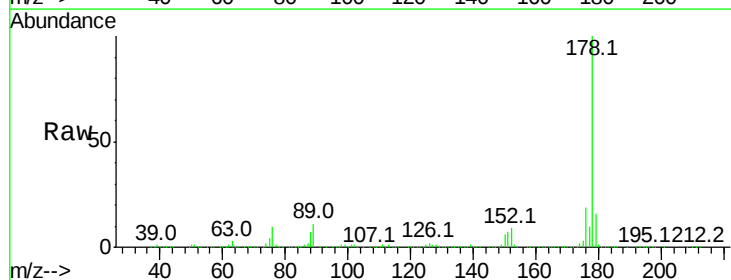
Manual Integrations
APPROVED

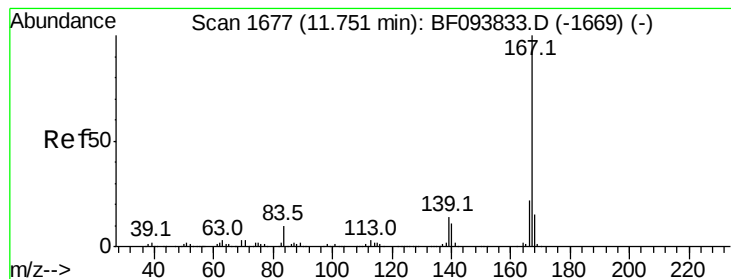
mohammad
3/28/2017 3:42:58 PM



#71
Anthracene
Concen: 25.38 ng
RT: 11.52 min Scan# 1637
Delta R.T. -0.01 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Tgt Ion:178 Resp: 789816
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 15.6 12.7 19.1





#72

Carbazole

Concen: 5.37 ng

RT: 11.71 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Instrument :

BNA_F

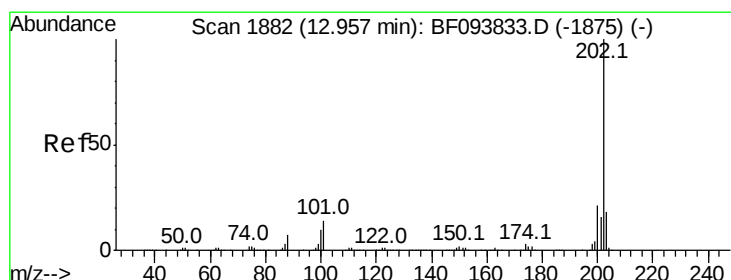
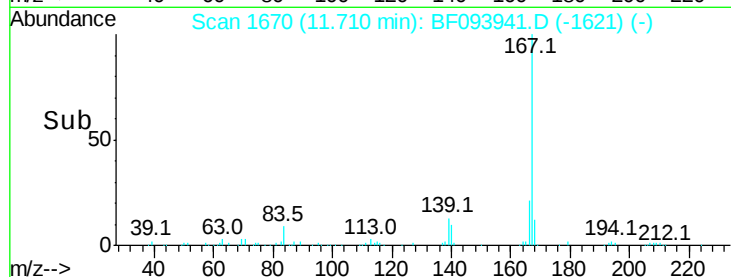
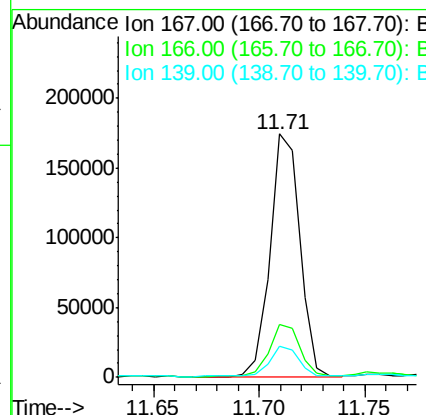
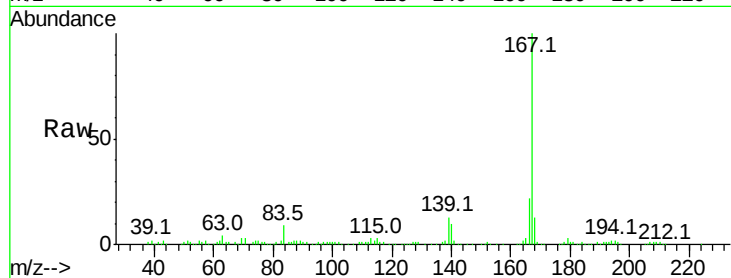
ClientSampleId :

WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.1	27.1
139	13.1	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 45.99 ng

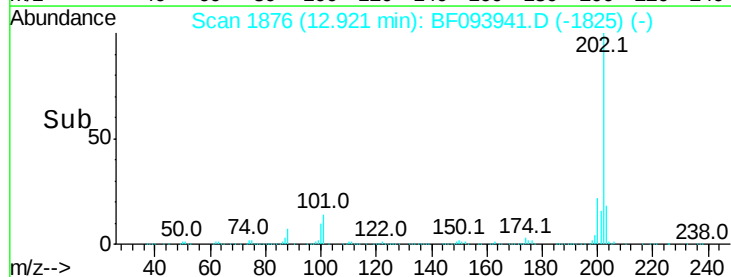
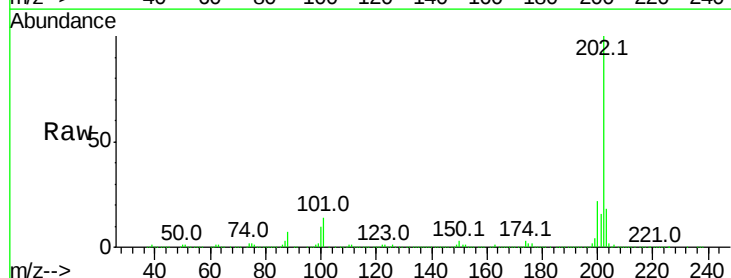
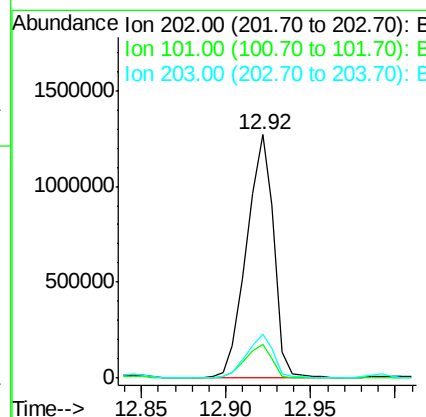
RT: 12.92 min Scan# 1876

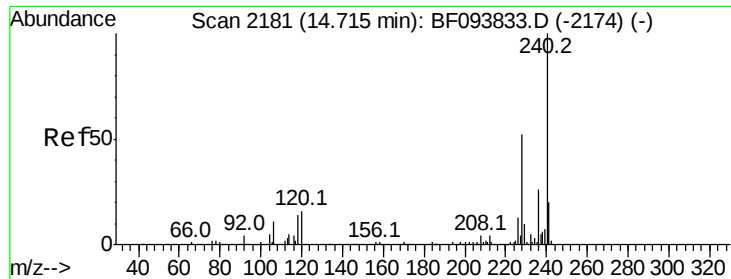
Delta R.T. 0.00 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	33.2
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.68 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Instrument :

BNA_F

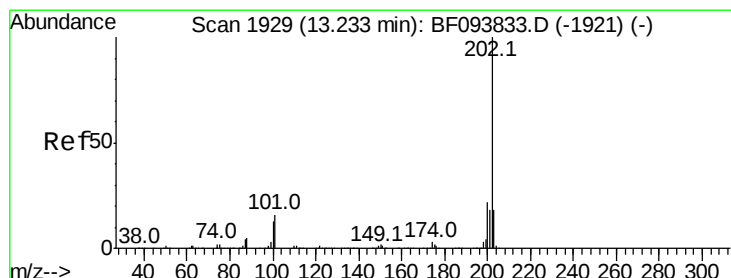
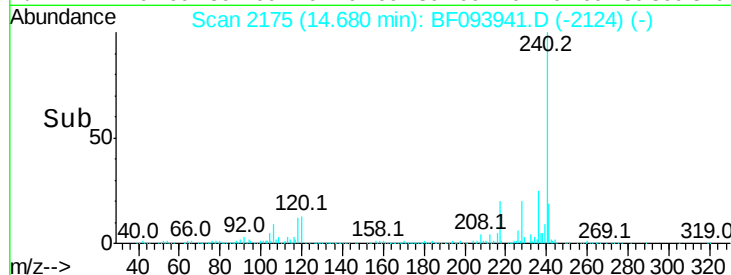
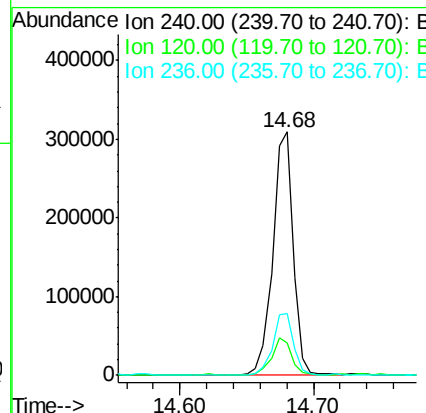
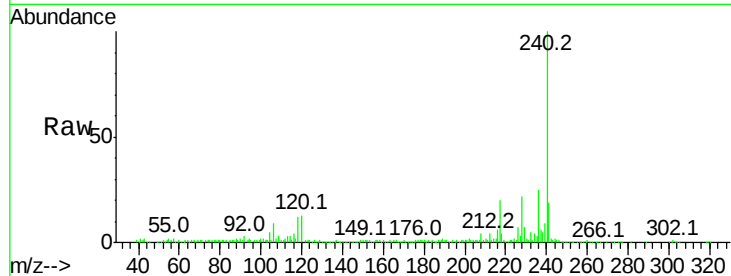
ClientSampleId :

WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.3	5.8	8.8#
236	25.3	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 59.92 ng

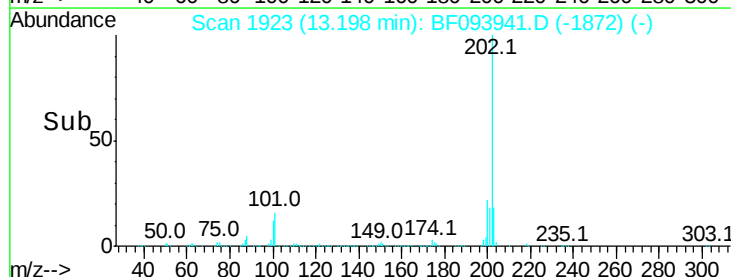
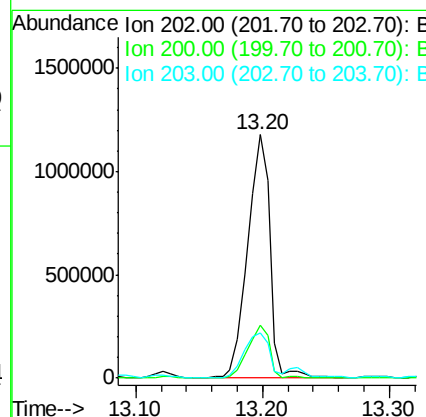
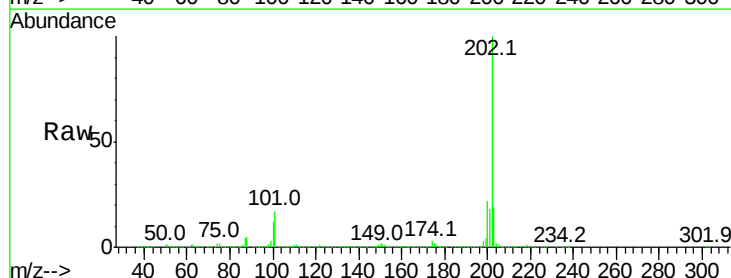
RT: 13.20 min Scan# 1923

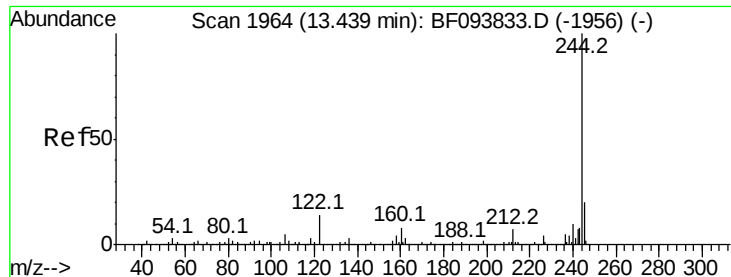
Delta R.T. 0.00 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.6	26.4
203	18.6	14.4	21.6





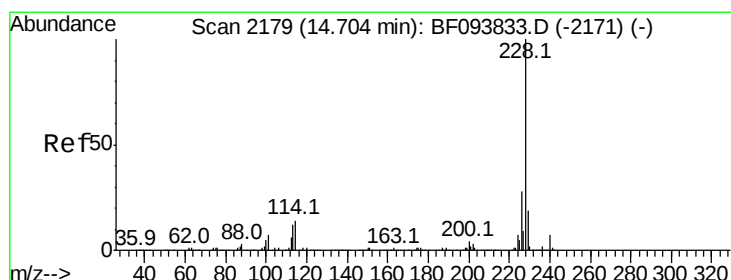
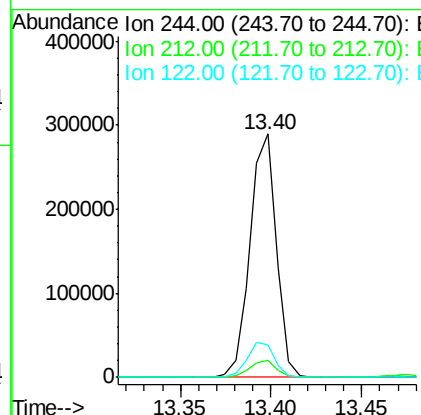
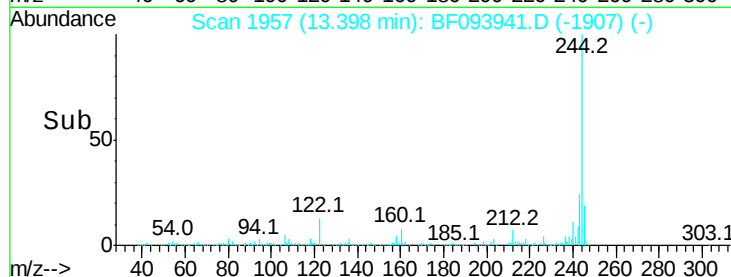
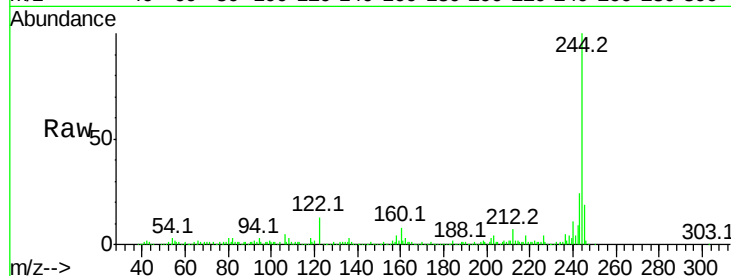
#78
 Terphenyl-d14
 Concen: 20.00 ng
 RT: 13.40 min Scan# 1957
 Delta R.T. -0.01 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	13.2	10.3	15.5

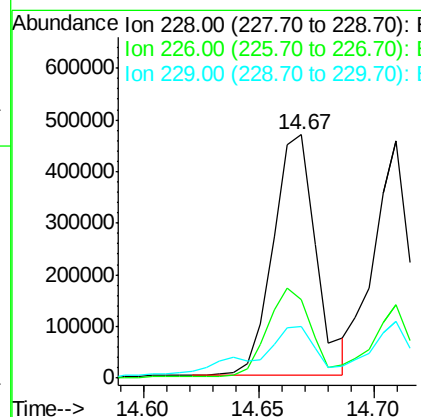
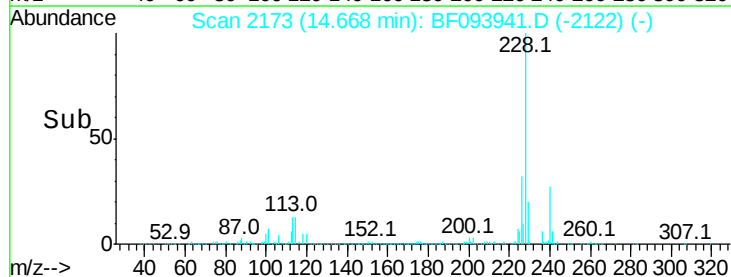
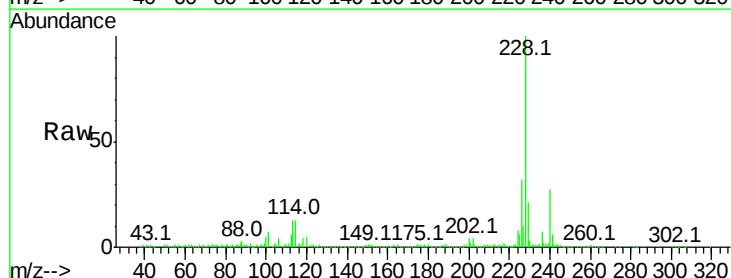
Manual Integrations
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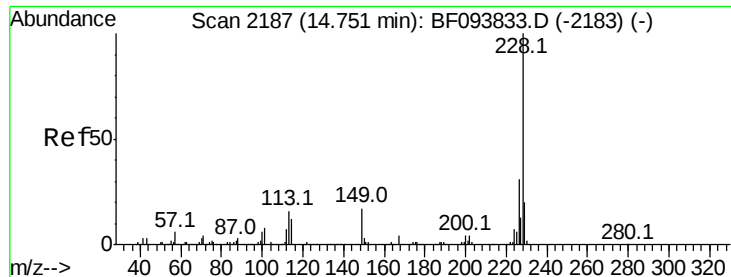
mohammad
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#80
 Benzo(a)anthracene
 Concen: 31.42 ng
 RT: 14.67 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: BF093941.D
 Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	22.6	33.8
229	21.3	16.3	24.5





#82

Chrysene

Concen: 26.69 ng/mL

RT: 14.71 min Scan# 2180

Delta R.T. -0.01 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Instrument :

BNA_F

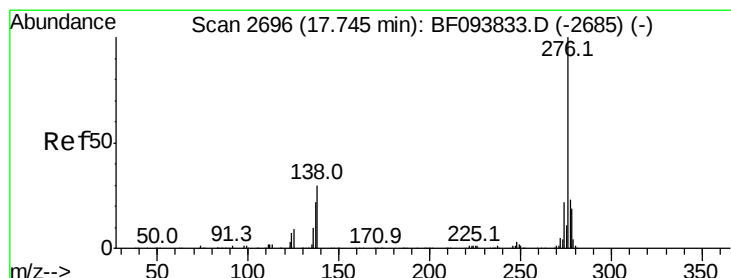
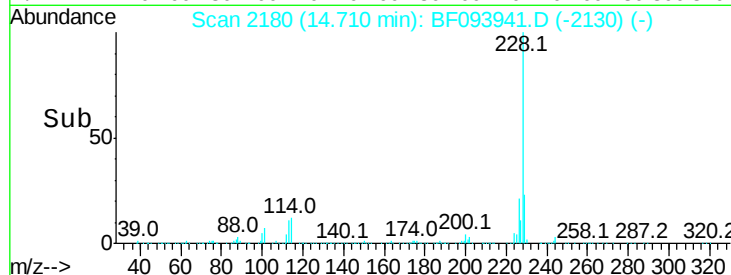
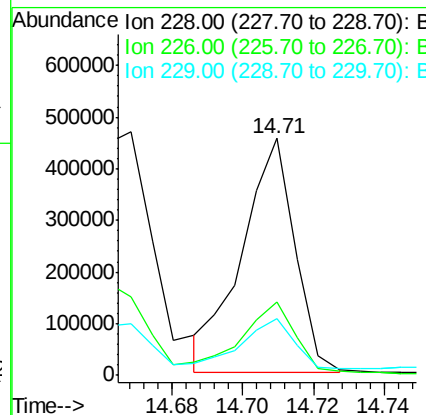
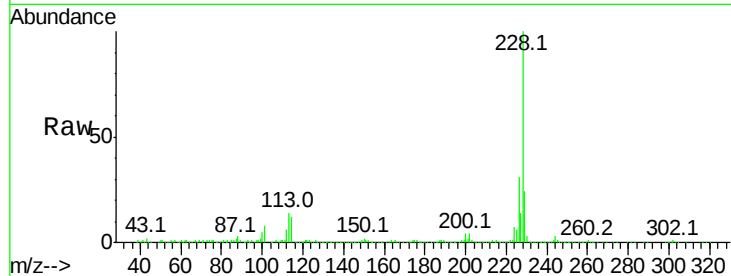
ClientSampleId :

WC-COMP-12DL

Tot Ion:	228	Resp:	473772
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.9	37.3
229	23.7	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 13.73 ng/mL

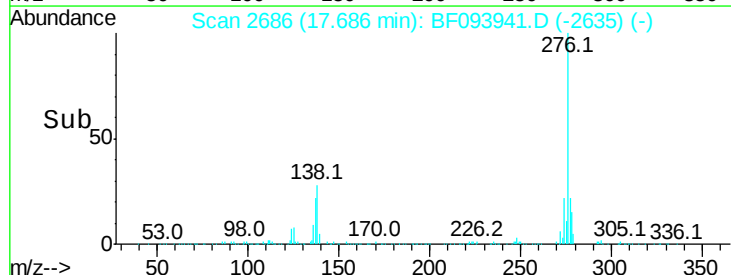
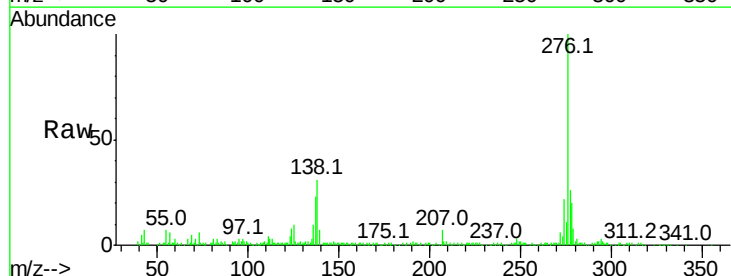
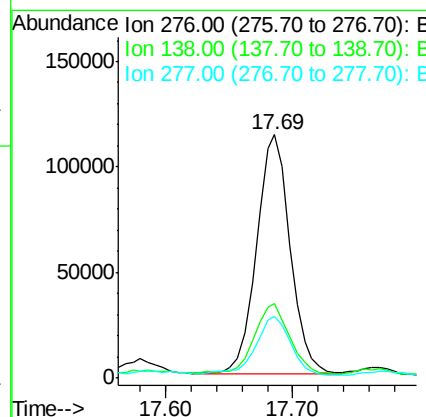
RT: 17.69 min Scan# 2686

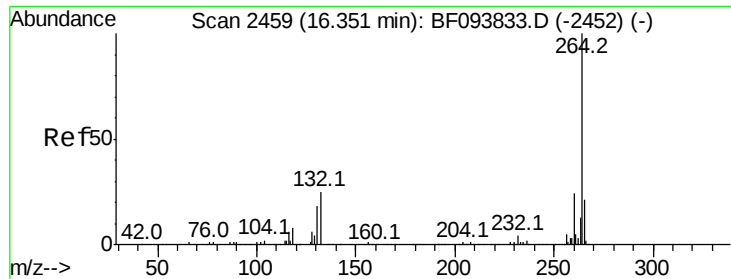
Delta R.T. 0.00 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Tgt Ion:	276	Resp:	211100
Ion Ratio	Lower	Upper	
276	100		
138	30.5	27.8	41.6
277	26.1	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.32 min Scan# 2453

Delta R.T. 0.01 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

Instrument :

BNA_F

ClientSampleId :

WC-COMP-12DL

Tot Ion:264 Resp: 324895

Ion Ratio Lower Upper

264 100

260 23.4 19.5 29.3

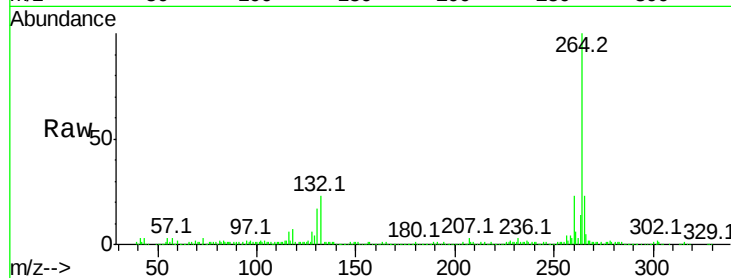
265 22.6 17.2 25.8

Manual Integrations

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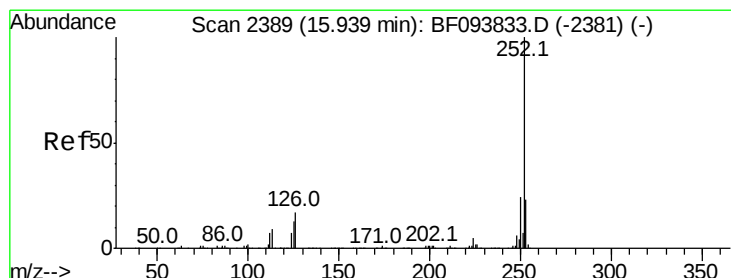
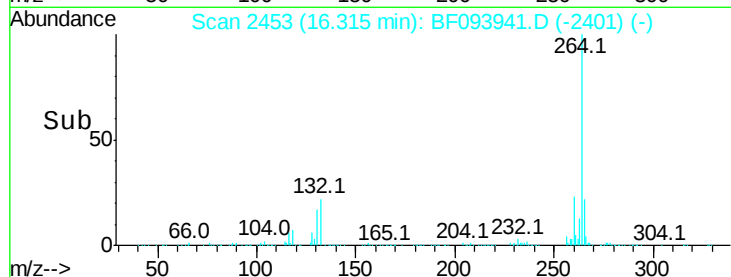
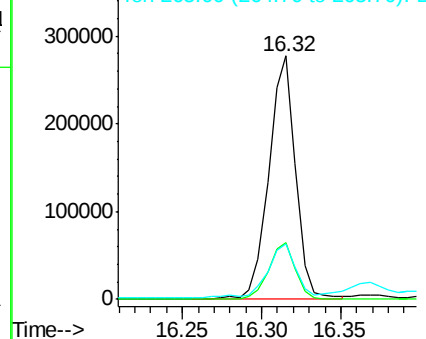
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Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 28.01 ng m

RT: 15.90 min Scan# 2383

Delta R.T. 0.01 min

Lab File: BF093941.D

Acq: 27 Mar 2017 13:49

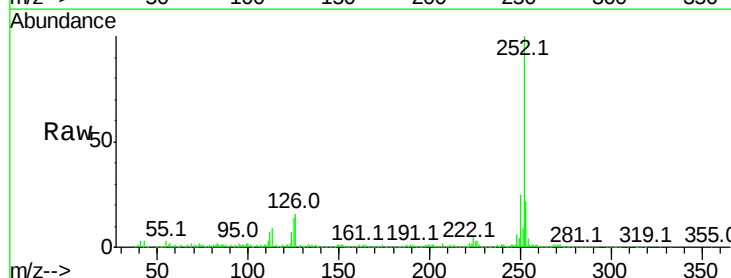
Tgt Ion:252 Resp: 557778

Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

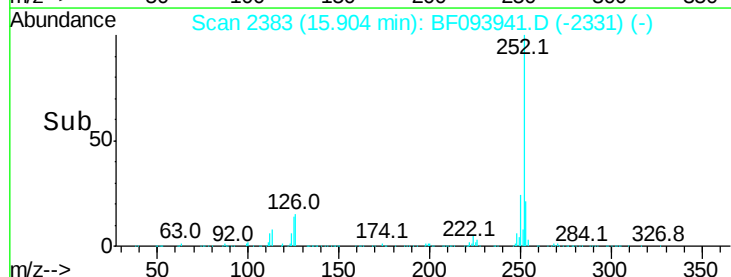
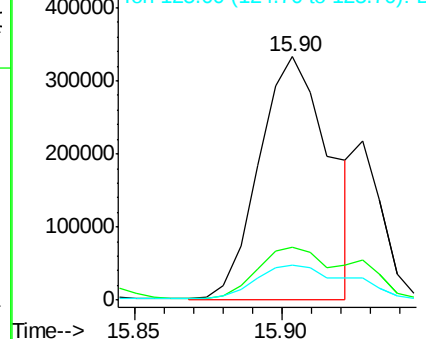
125 14.5 9.8 14.8

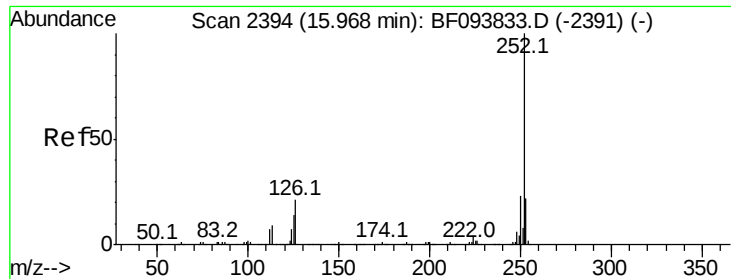


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





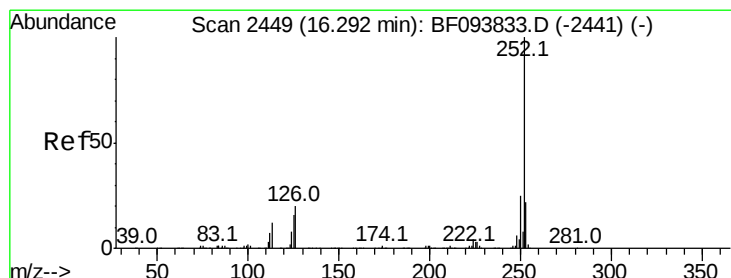
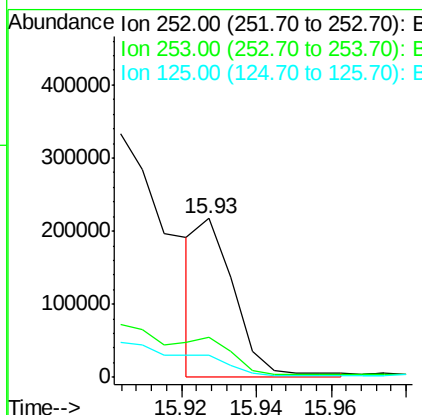
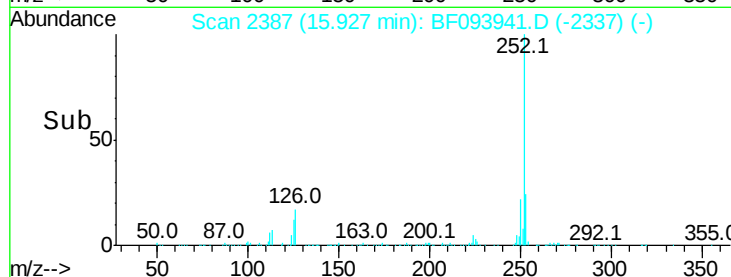
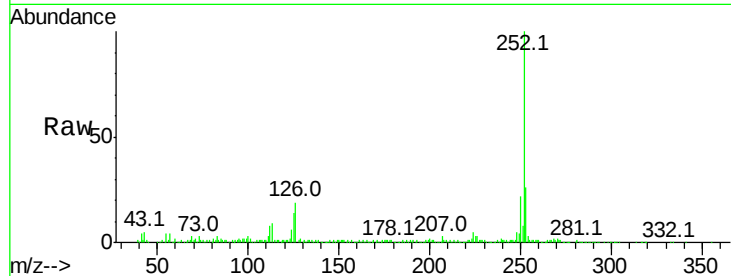
#88
Benzo(k)fluoranthene
Concen: 7.50 ng m
RT: 15.93 min Scan# 2387
Delta R.T. -0.01 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.5	18.4	27.6
125	13.6	13.1	19.7

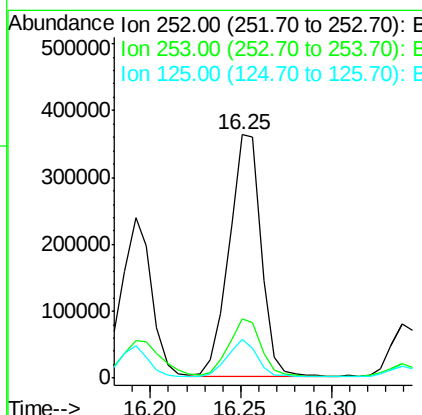
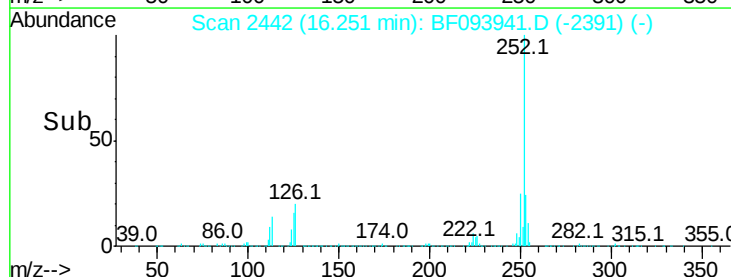
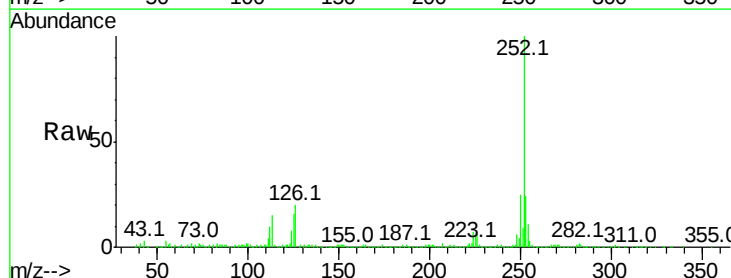
Manual Integrations
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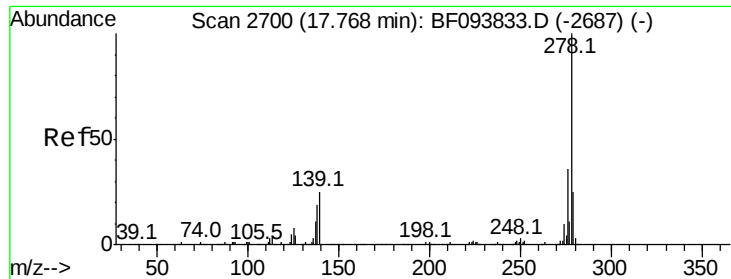
mohammad
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#89
Benzo(a)pyrene
Concen: 24.13 ng
RT: 16.25 min Scan# 2442
Delta R.T. 0.00 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.5	26.3
125	16.1	11.0	16.4





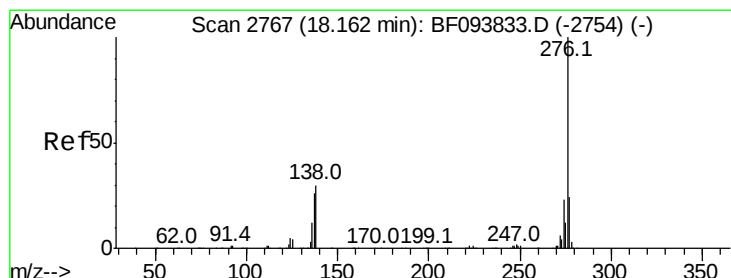
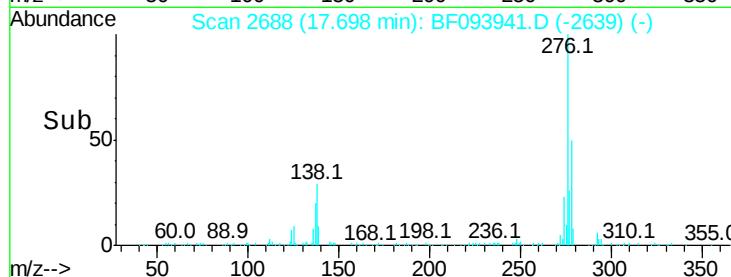
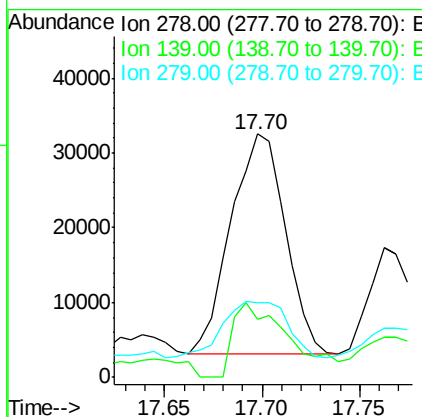
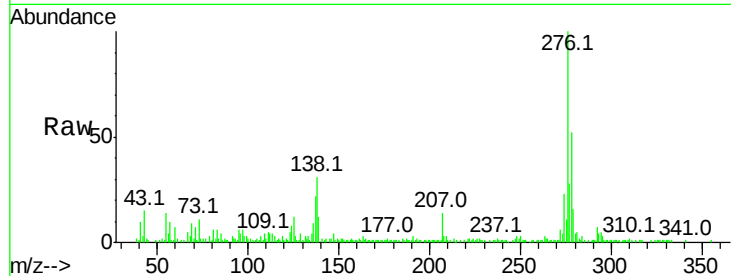
#90
Dibenzo(a,h)anthracene
Concen: 3.66 ng
RT: 17.70 min Scan# 2688
Delta R.T. -0.01 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.7	16.6	24.8
279	30.9	19.3	28.9

Manual Integrations
APPROVED

mohammad
3/28/2017 3:42:58 PM



#91
Benzo(g,h,i)perylene
Concen: 13.37 ng
RT: 18.09 min Scan# 2755
Delta R.T. -0.01 min
Lab File: BF093941.D
Acq: 27 Mar 2017 13:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.6	28.0
138	30.3	25.4	38.0

