

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094161.D
 Acq On : 4 Apr 2017 11:16
 Operator : SJ/MA
 Sample : I2510-12 2X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-NSW

Manual Integrations
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 4/4/2017 5:35:34 PM

Quant Time: Apr 04 12:00:03 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	172812	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	636836	20.00	ng	-0.02
38) Acenaphthene-d10	9.54	164	222090	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	341021	20.00	ng	0.00
75) Chrysene-d12	14.63	240	276862	20.00	ng	0.00
86) Perylene-d12	16.26	264	221514	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	507536	49.60	ng	-0.01
7) Phenol-d6	5.49	99	615056	48.59	ng	-0.02
23) Nitrobenzene-d5	6.53	82	309096	27.70	ng	-0.02
41) 2,4,6-Tribromophenol	10.52	330	75817	43.20	ng	0.00
44) 2-Fluorobiphenyl	8.72	172	499525	34.31	ng	-0.02
78) Terphenyl-d14	13.34	244	293711	23.78	ng	0.00

Target Compounds						Qvalue
48) Acenaphthylene	9.36	152	163911	7.03	ng	94
49) Dimethylphthalate	9.22	163	72479	4.59	ng	# 87
57) Fluorene	10.22	166	37940	2.47	ng	# 79
70) Phenanthrene	11.40	178	796008	41.96	ng	99
71) Anthracene	11.46	178	320688	16.42	ng	98
72) Carbazole	11.66	167	137331	6.86	ng	95
74) Fluoranthene	12.88	202	2658279	136.85	ng	100
77) Pyrene	13.16	202	2611789	129.99	ng	100
80) Benzo(a)anthracene	14.62	228	1442131	89.33	ng	98
82) Chrysene	14.66	228	1234015m	82.37	ng	
85) Indeno(1,2,3-cd)pyrene	17.62	276	620785	47.84	ng	96
87) Benzo(b)fluoranthene	15.86	252	1408498m	103.73	ng	
88) Benzo(k)fluoranthene	15.88	252	414635m	31.21	ng	
89) Benzo(a)pyrene	16.21	252	980072	78.38	ng	98
90) Dibenzo(a,h)anthracene	17.62	278	141139m	13.33	ng	
91) Benzo(g,h,i)perylene	18.02	276	604282	56.62	ng	99

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

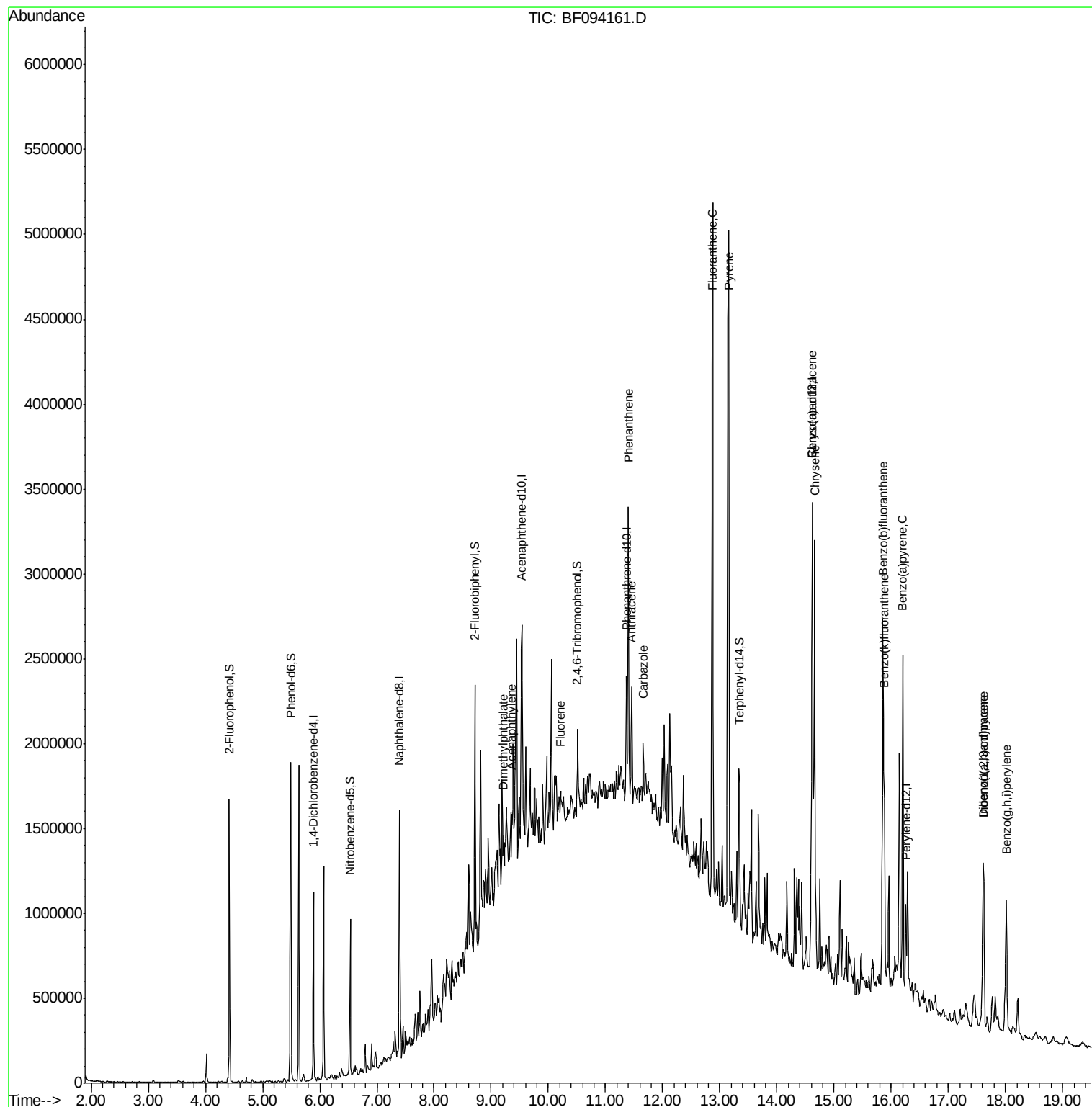
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
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#1

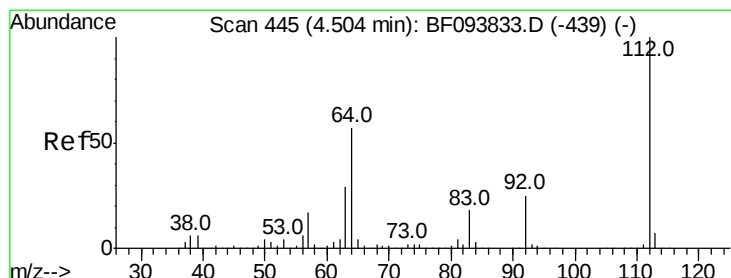
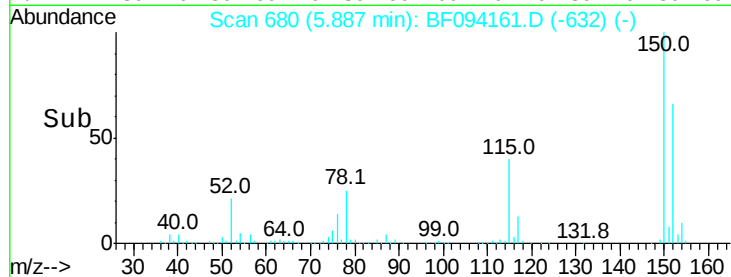
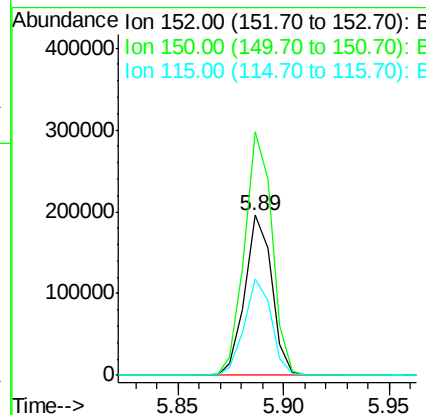
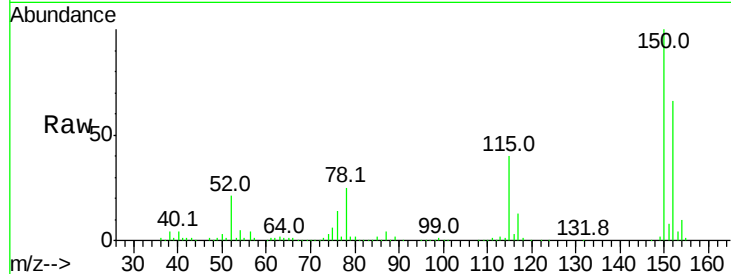
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :
E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.9	126.2	189.2
115	60.4	52.2	78.2

Manual Integrations
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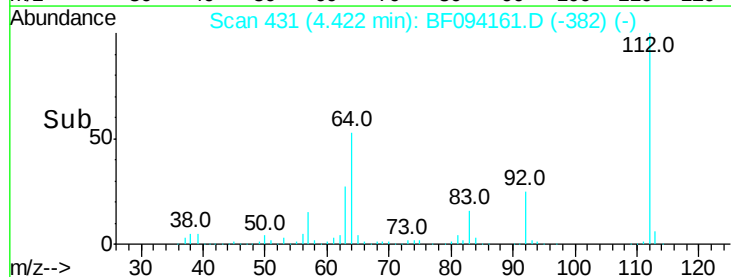
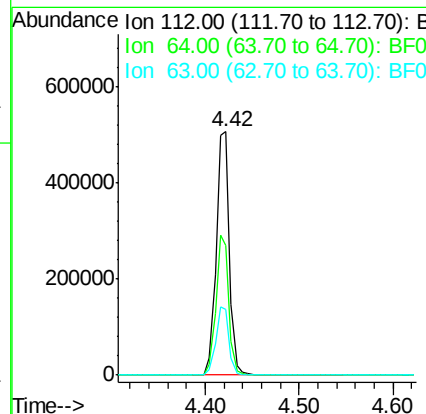
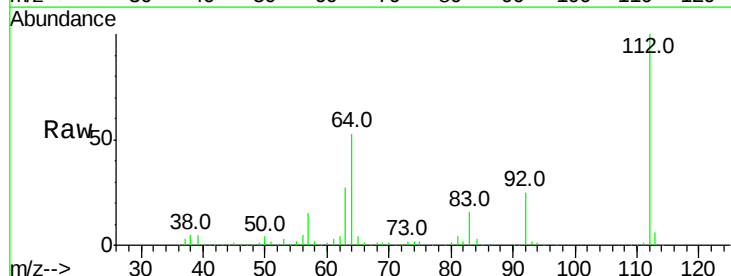
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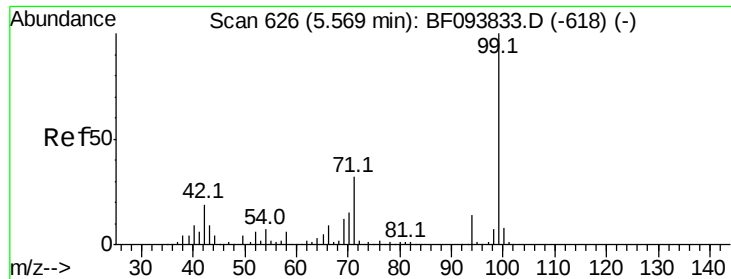


#5

2-Fluorophenol
Concen: 49.60 ng
RT: 4.42 min Scan# 431
Delta R.T. -0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.3	46.0	69.0
63	27.1	23.4	35.0





#7

Phenol-d6

Concen: 48.59 ng

RT: 5.49 min Scan# 613

Delta R.T. -0.02 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

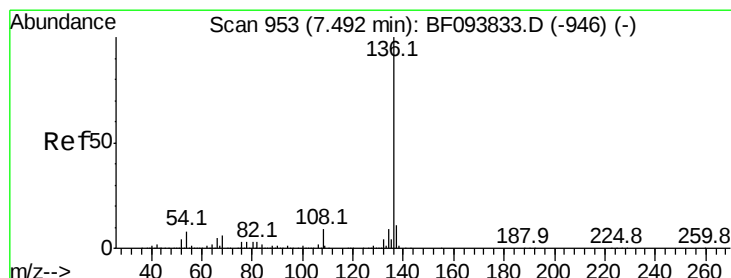
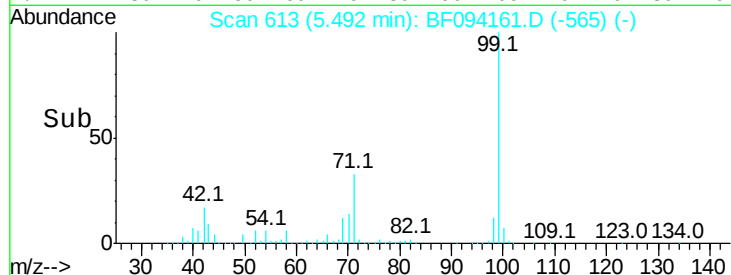
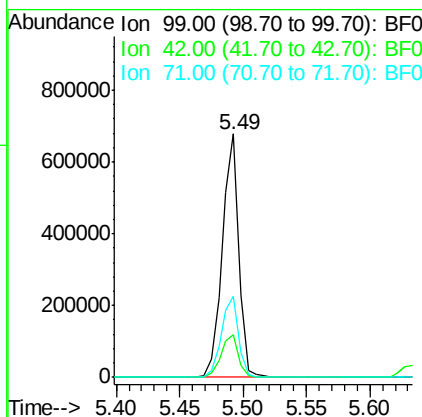
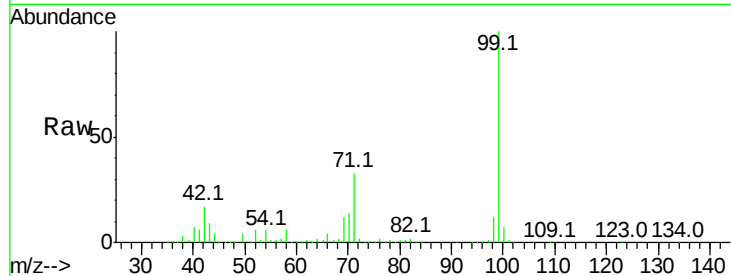
ClientSampleId :

E2-U4-NSW

Tot Ion:	99	Resp:	615056
Ion Ratio	Lower	Upper	
99	100		
42	17.3	13.5	20.3
71	33.4	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

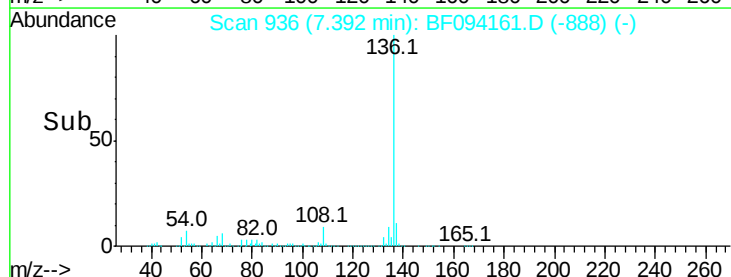
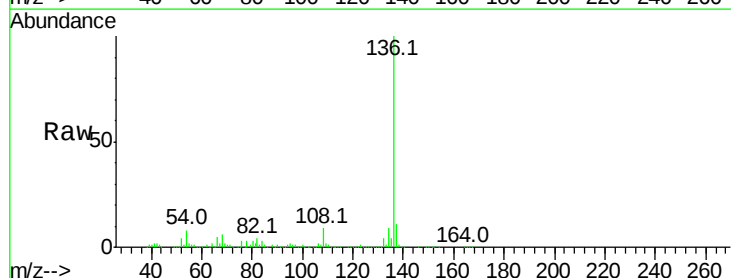
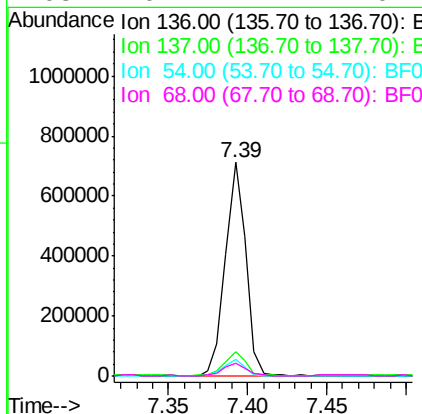
RT: 7.39 min Scan# 936

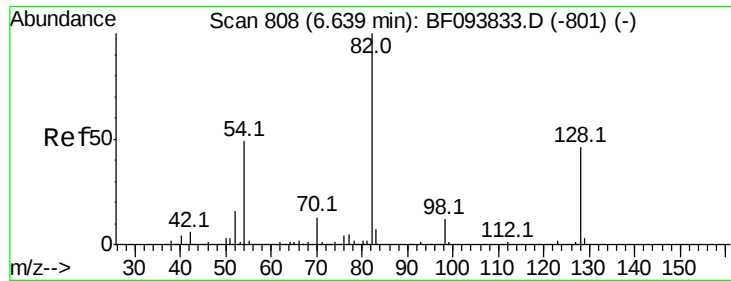
Delta R.T. -0.02 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Tgt Ion:	136	Resp:	636836
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.5	12.7
54	7.6	4.9	7.3#
68	6.1	4.1	6.1#





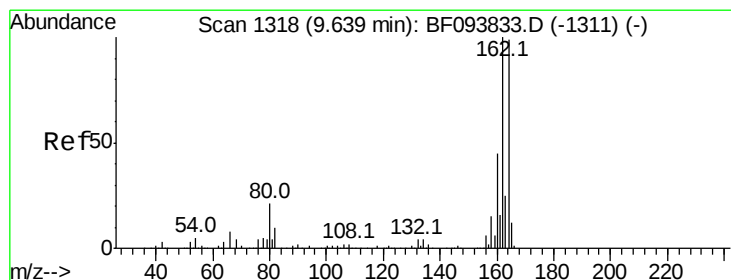
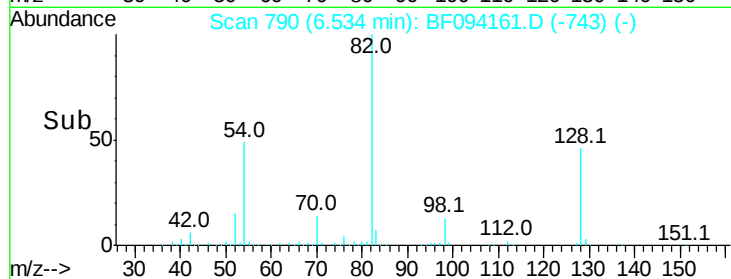
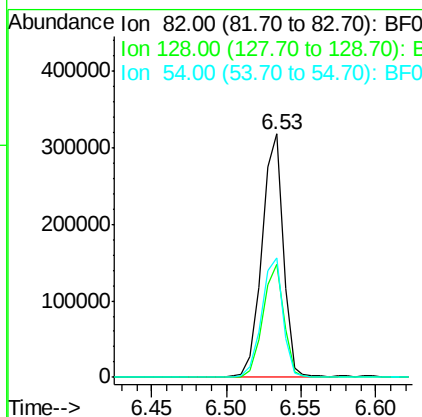
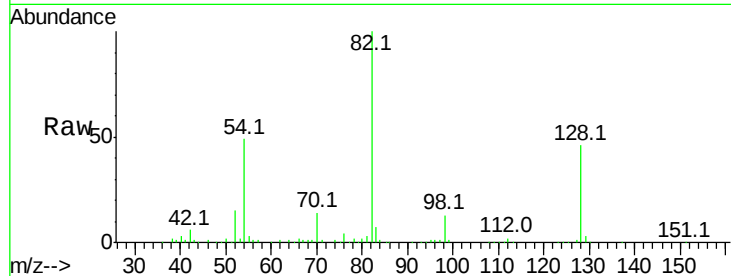
#23
 Nitrobenzene-d5
 Concen: 27.70 ng
 RT: 6.53 min Scan# 790
 Delta R.T. -0.02 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-NSW

Tot Ion	82	Resp	309096
Ion Ratio	Lower	Upper	
82	100		
128	46.3	34.0	51.0
54	49.3	42.2	63.2

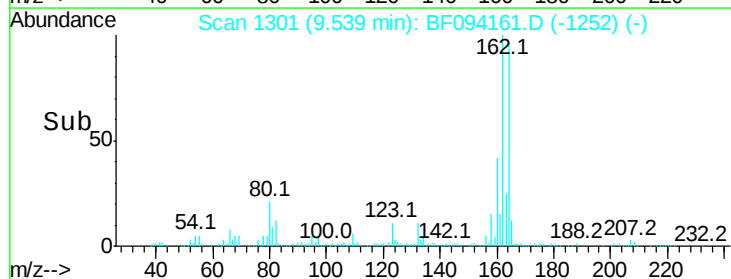
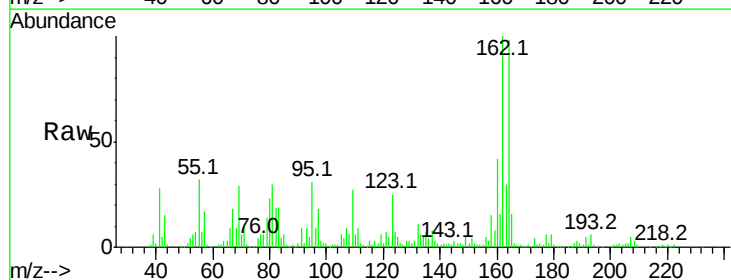
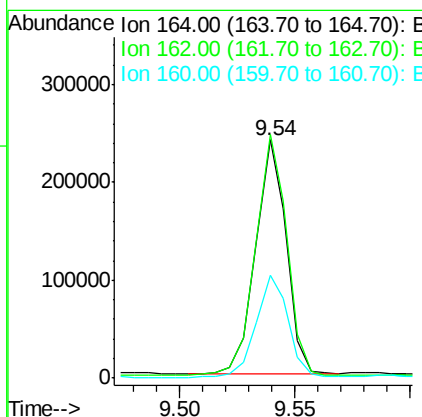
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.54 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Tgt Ion	164	Resp	222090
Ion Ratio	Lower	Upper	
164	100		
162	102.2	82.6	123.8
160	43.4	36.2	54.2





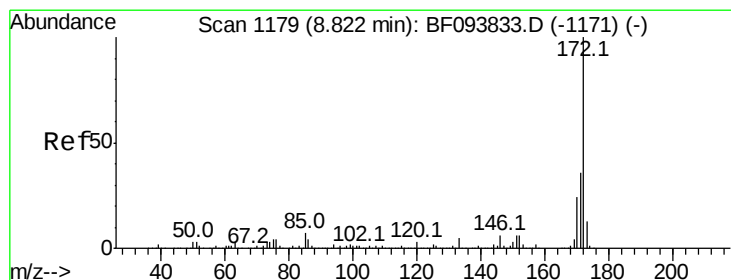
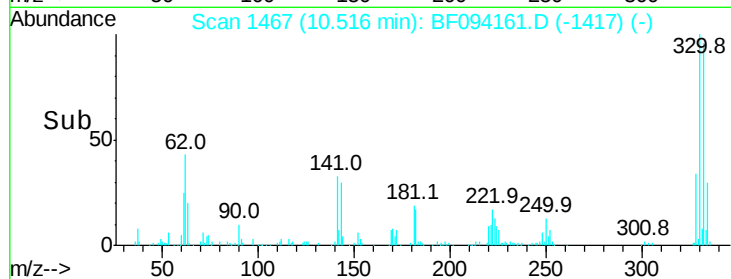
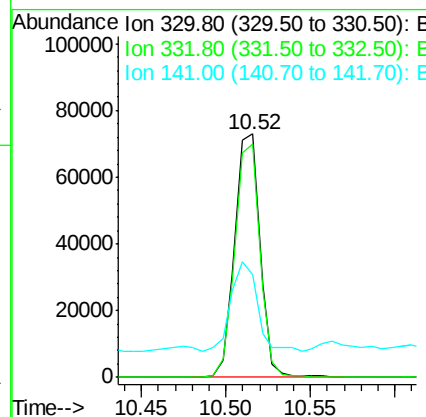
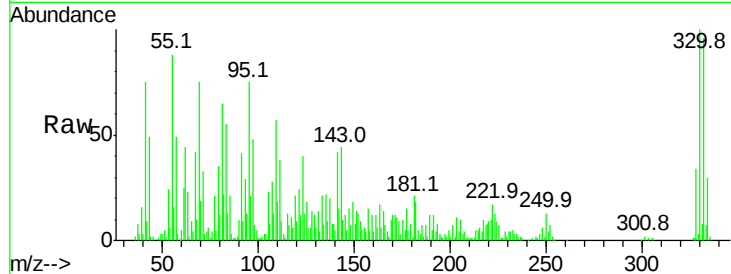
#41
 2,4,6-Tribromophenol
 Concen: 43.20 ng
 RT: 10.52 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Instrument :
 BNA_F
 ClientSampled :
 E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.6	115.0
141	37.7	31.4	47.2

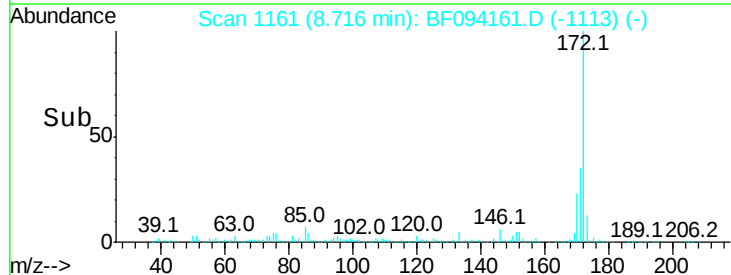
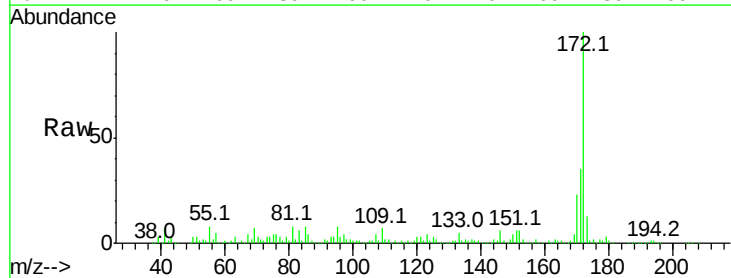
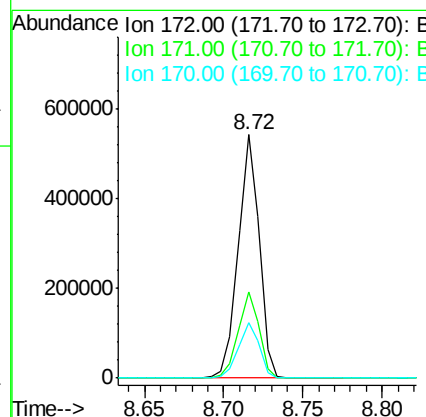
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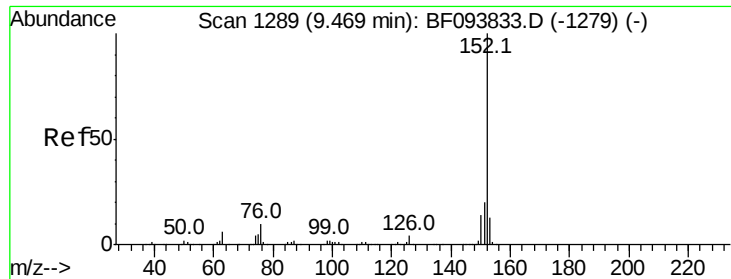
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#44
 2-Fluorobiphenyl
 Concen: 34.31 ng
 RT: 8.72 min Scan# 1161
 Delta R.T. -0.02 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.6	44.4
170	22.9	19.8	29.8





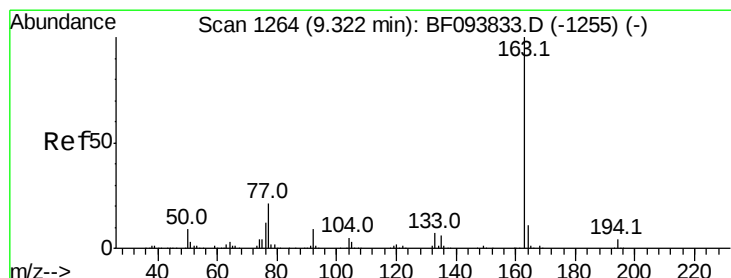
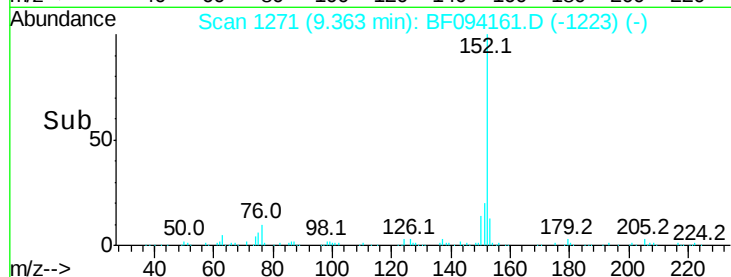
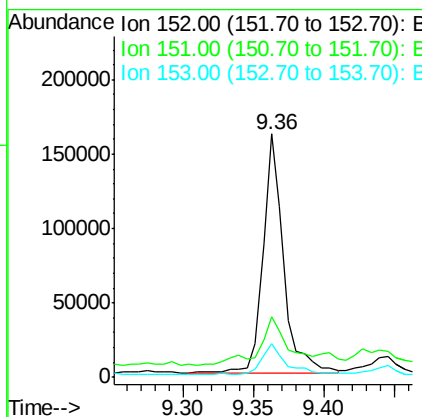
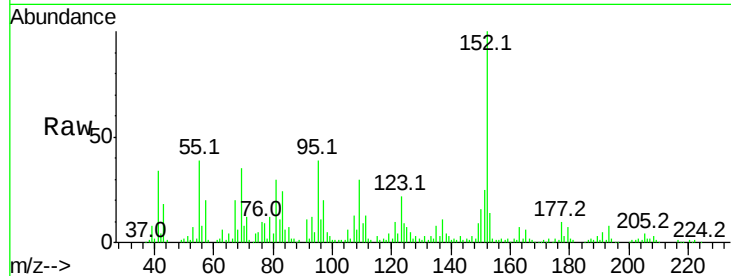
#48
Acenaphthylene
Concen: 7.03 ng
RT: 9.36 min Scan# 1271
Delta R.T. -0.02 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :
E2-U4-NSW

Tot Ion	Ratio	Resp	Lower	Upper
152	100	163911		
151	25.0		16.8	25.2
153	14.1		10.8	16.2

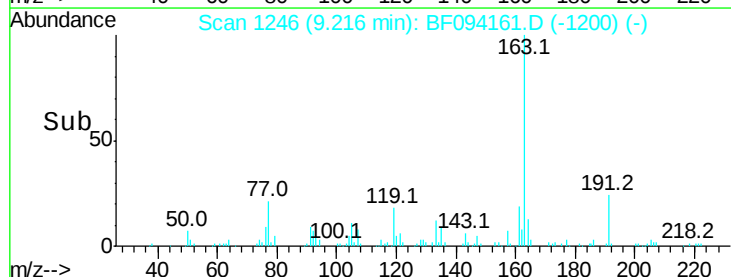
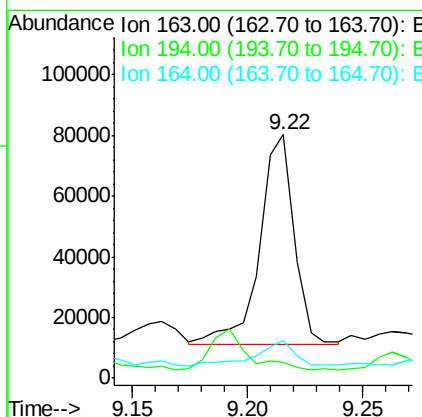
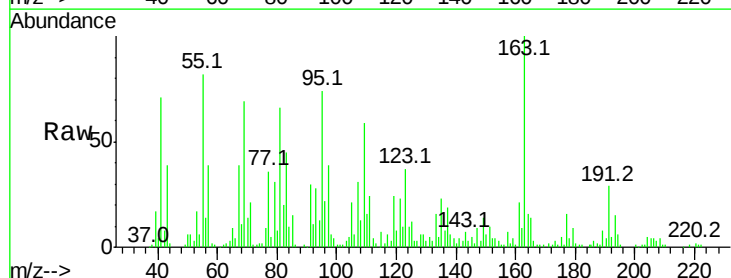
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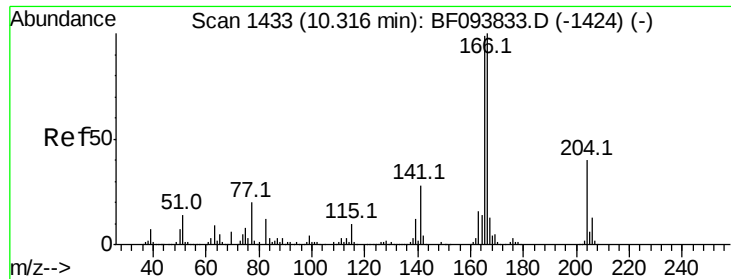
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#49
Dimethylphthalate
Concen: 4.59 ng
RT: 9.22 min Scan# 1246
Delta R.T. -0.03 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	72479		
194	6.4		2.6	4.0#
164	15.6		8.4	12.6#





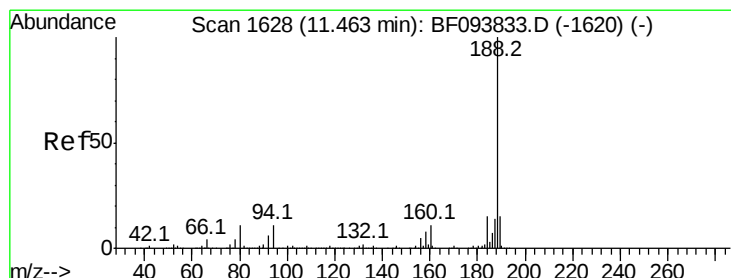
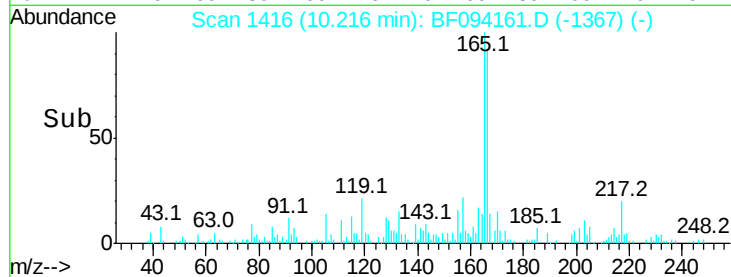
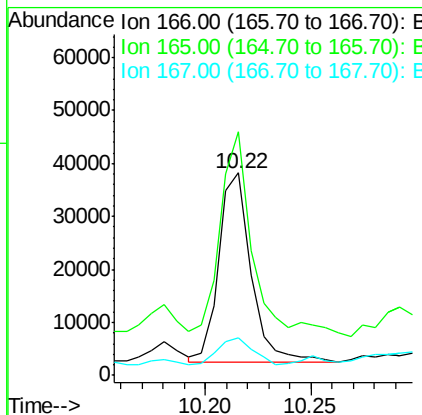
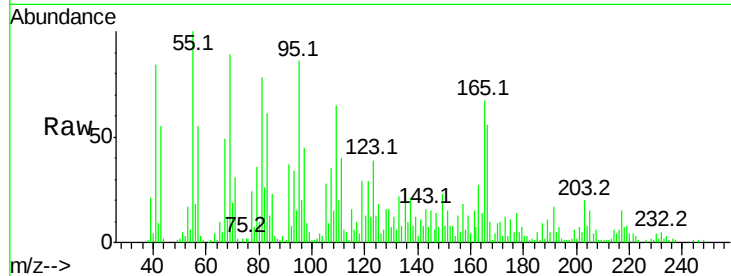
#57
Fluorene
 Concen: 2.47 ng
 RT: 10.22 min Scan# 1416
 Delta R.T. -0.01 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
166	100		
165	120.2	78.8	118.2#
167	18.8	10.6	16.0#

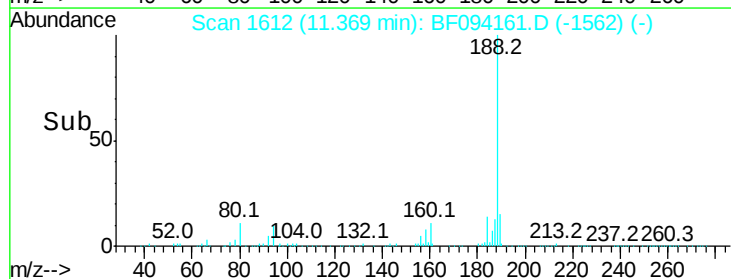
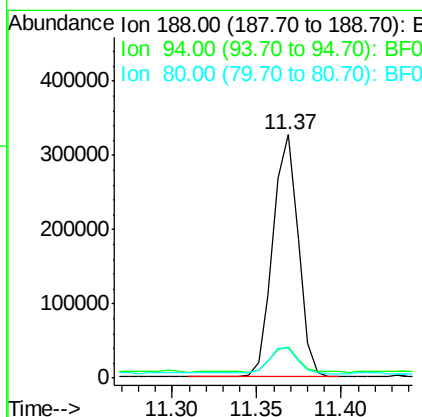
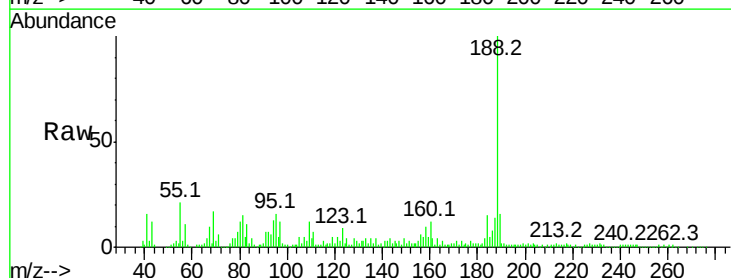
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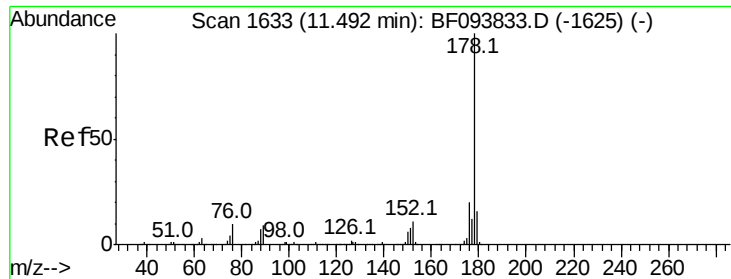
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.9	9.4	14.2
80	12.4	10.2	15.2





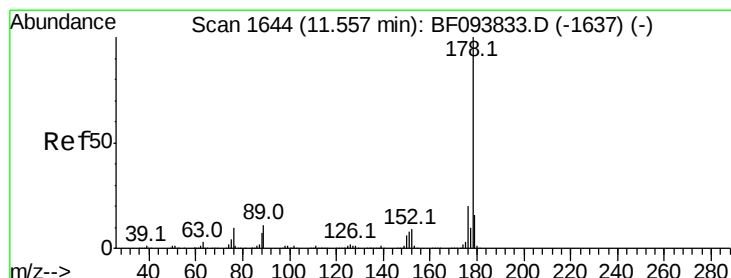
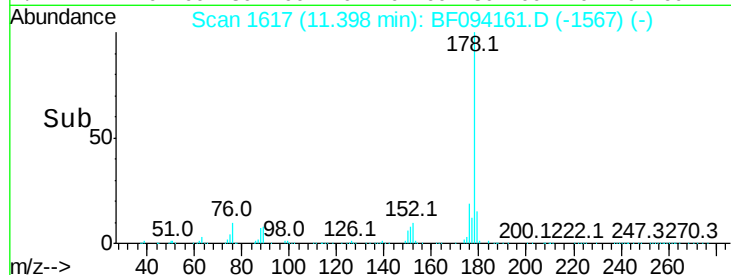
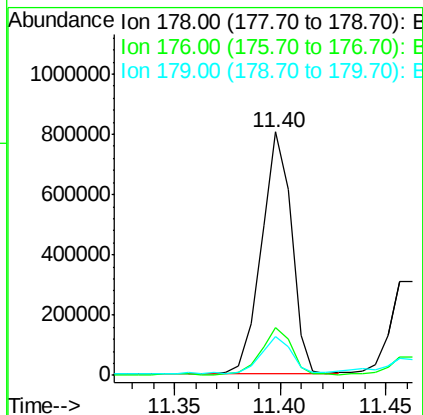
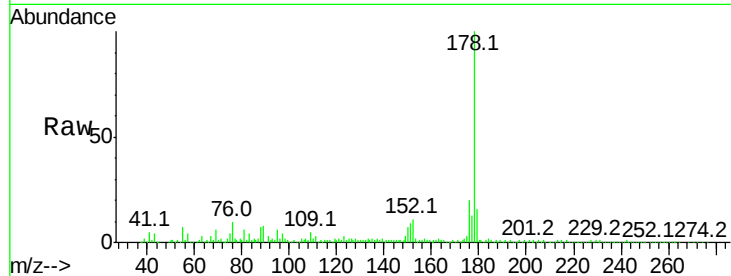
#70
Phenanthrene
Concen: 41.96 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :
E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.2	24.4
179	16.1	12.6	19.0

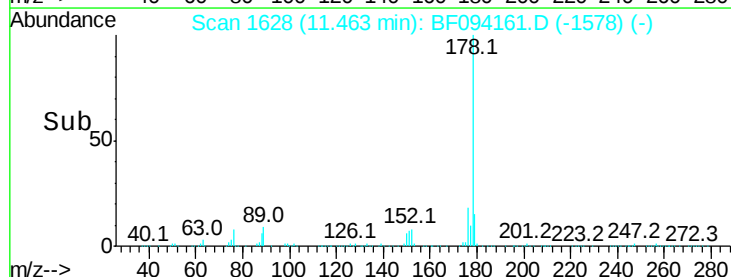
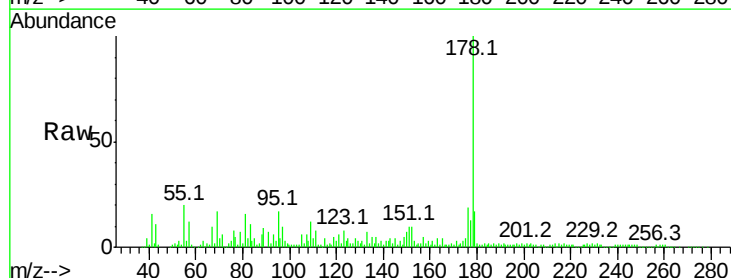
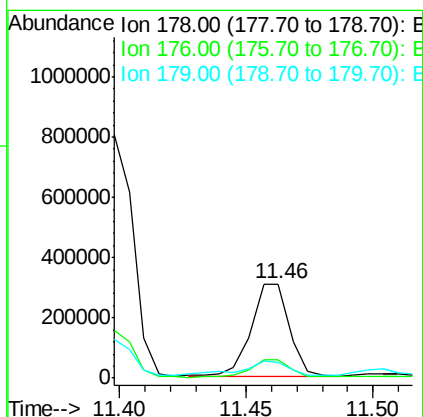
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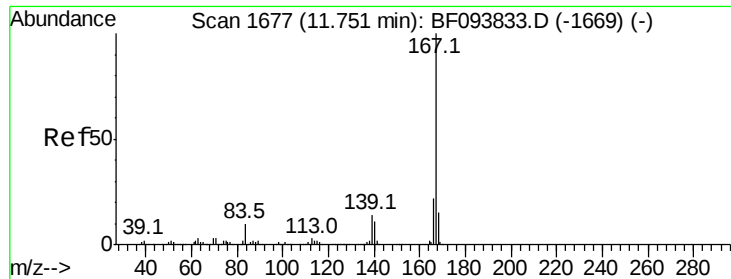
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#71
Anthracene
Concen: 16.42 ng
RT: 11.46 min Scan# 1628
Delta R.T. -0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	16.6	12.7	19.1





#72

Carbazole

Concen: 6.86 ng

RT: 11.66 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

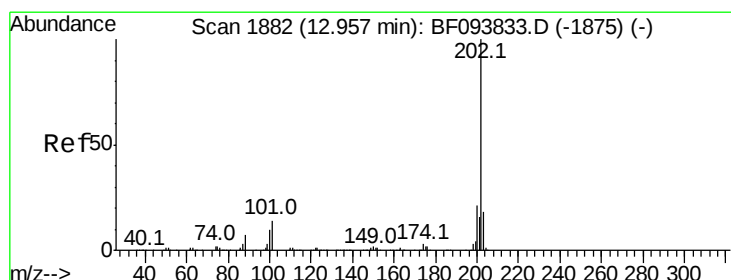
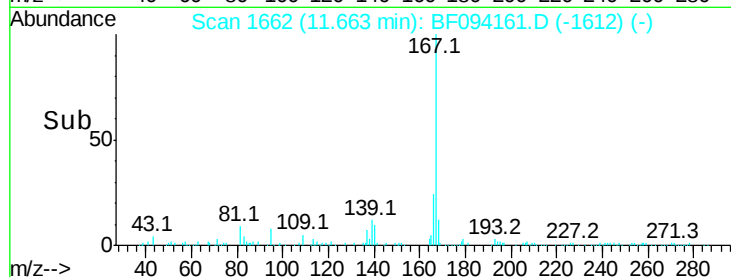
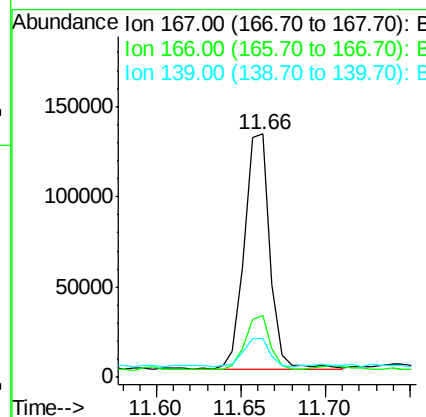
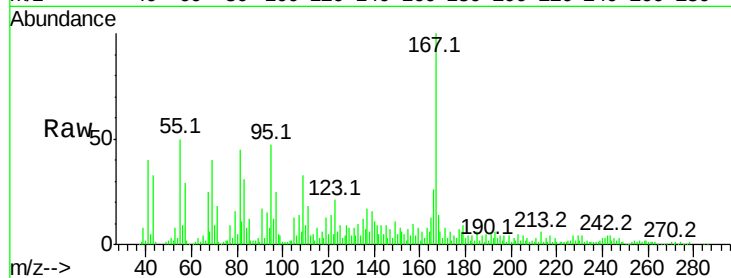
ClientSampleId :

E2-U4-NSW

Tot Ion:	167	Resp:	137331
Ion Ratio	Lower	Upper	
167	100		
166	25.6	18.1	27.1
139	16.0	11.7	17.5

Manual Integrations
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mohammad
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#74

Fluoranthene

Concen: 136.85 ng

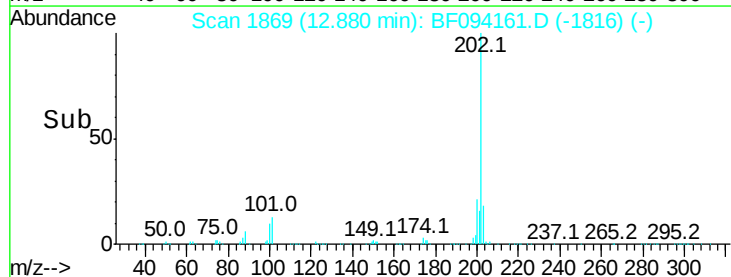
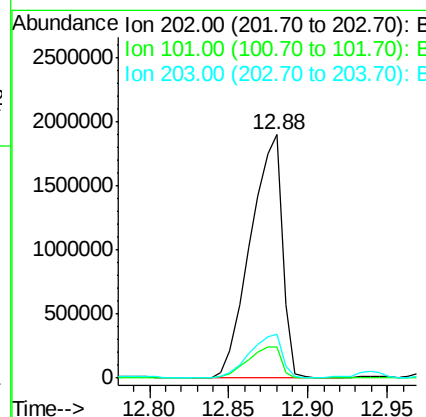
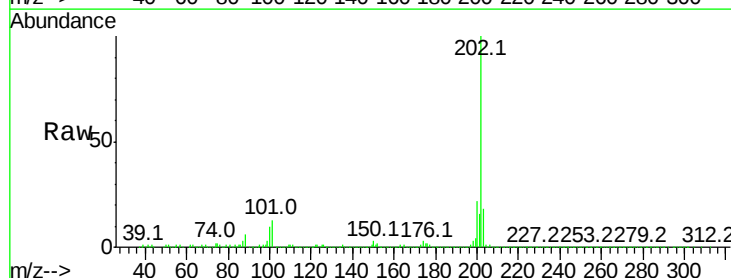
RT: 12.88 min Scan# 1869

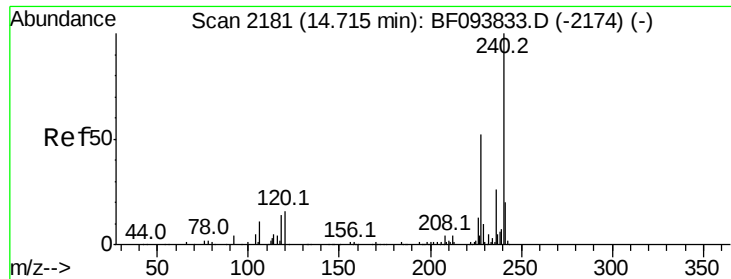
Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Tgt Ion:	202	Resp:	2658279
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	33.2
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.63 min Scan# 2166

Delta R.T. -0.00 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

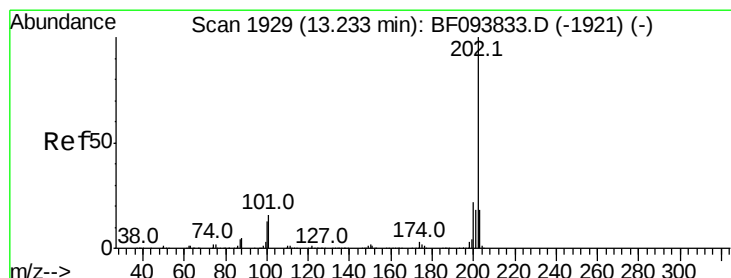
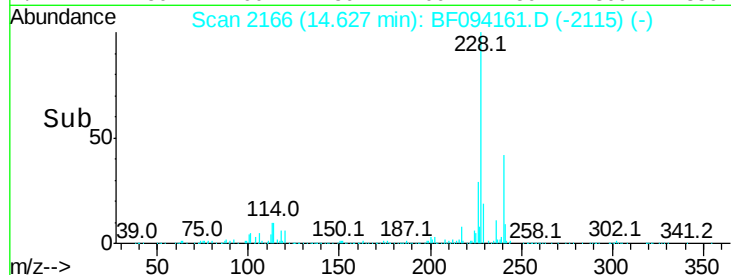
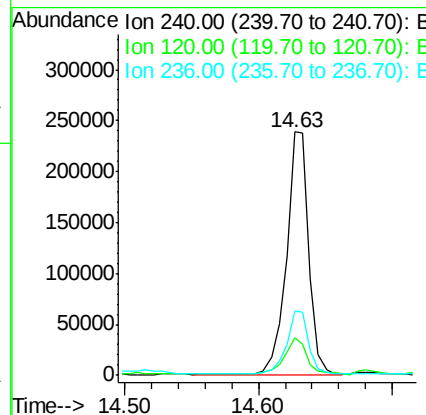
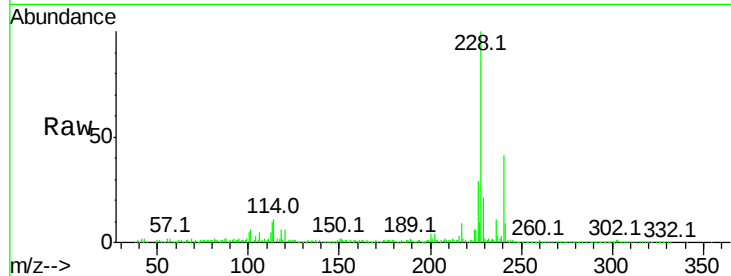
ClientSampleId :

E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.5	5.8	8.8#
236	26.3	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 129.99 ng

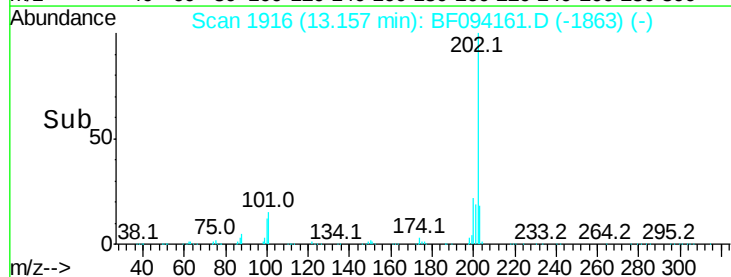
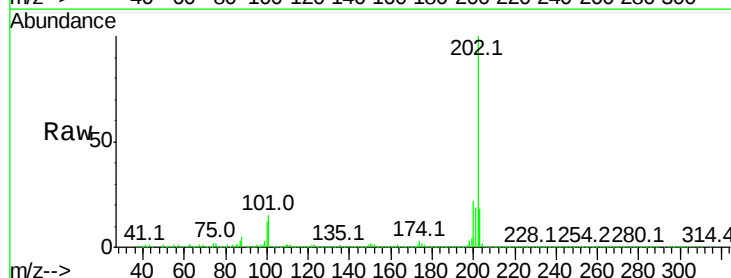
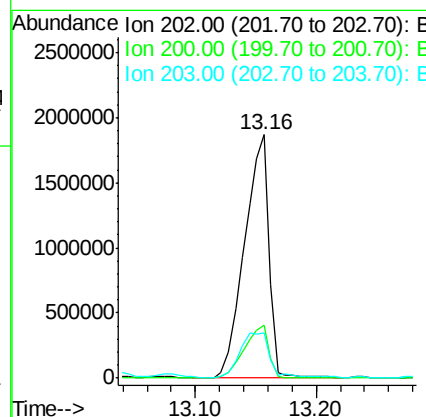
RT: 13.16 min Scan# 1916

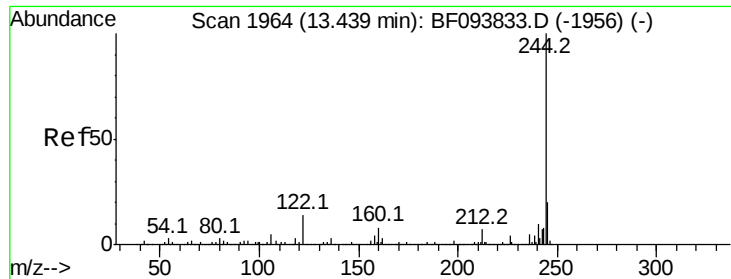
Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.6	26.4
203	18.4	14.4	21.6





#78

Terphenyl-d14

Concen: 23.78 ng

RT: 13.34 min Scan# 1948

Delta R.T. -0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

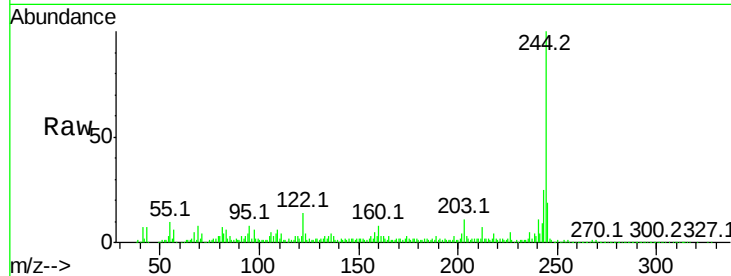
ClientSampleId :

E2-U4-NSW

Tot Ion:	244	Resp:	293711
Ion Ratio	Lower	Upper	
244	100		
212	7.1	6.0	9.0
122	13.8	10.3	15.5

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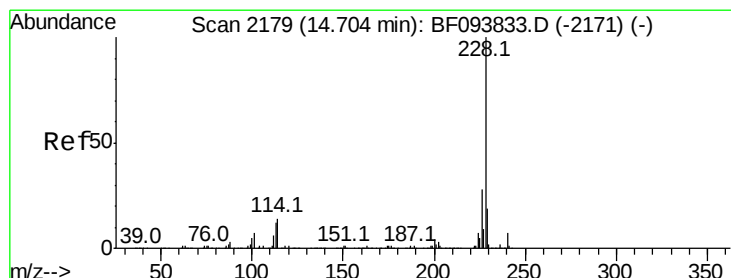
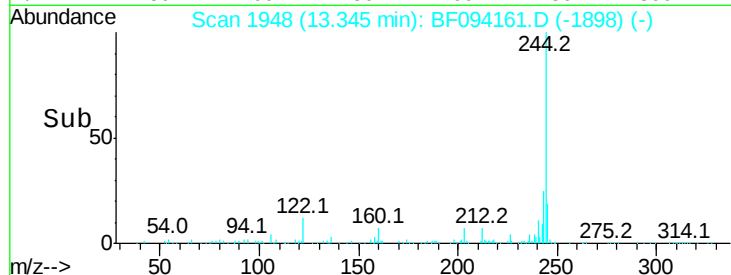
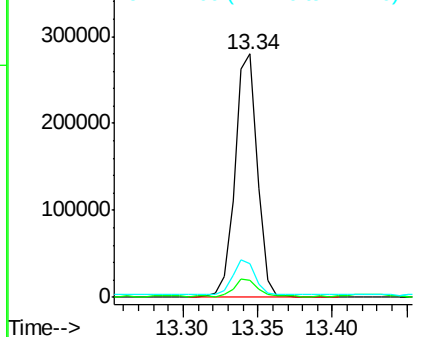
mohammad
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 89.33 ng

RT: 14.62 min Scan# 2165

Delta R.T. 0.01 min

Lab File: BF094161.D

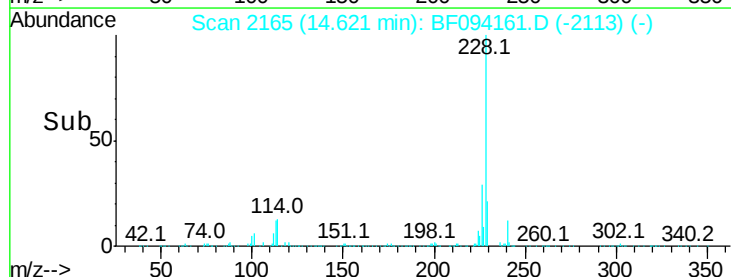
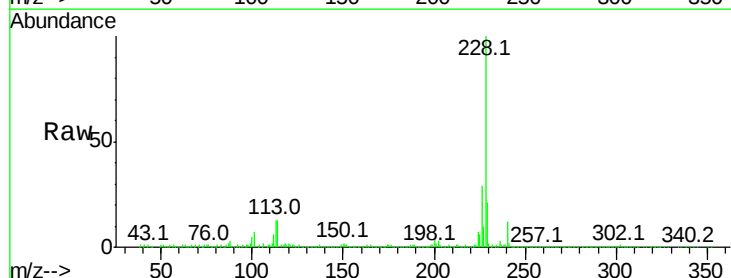
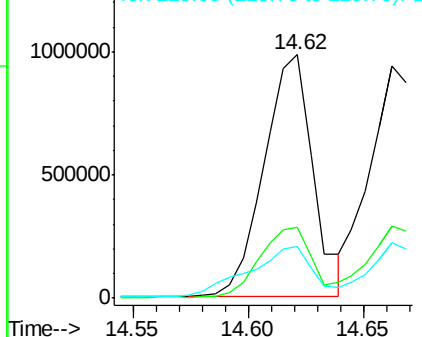
Acq: 4 Apr 2017 11:16

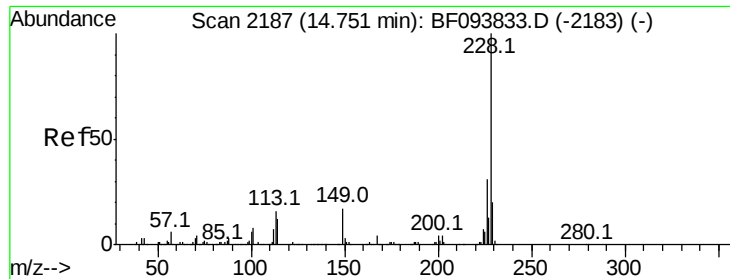
Tgt Ion:	228	Resp:	1442131
Ion Ratio	Lower	Upper	
228	100		
226	29.1	22.6	33.8
229	21.1	16.3	24.5

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





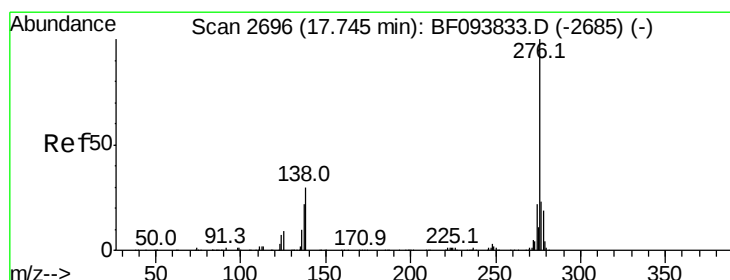
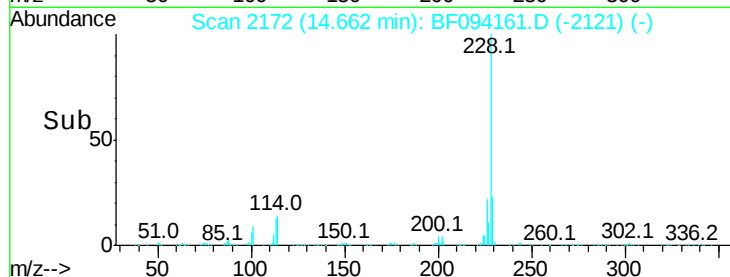
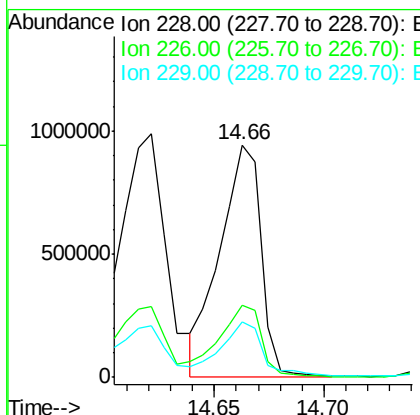
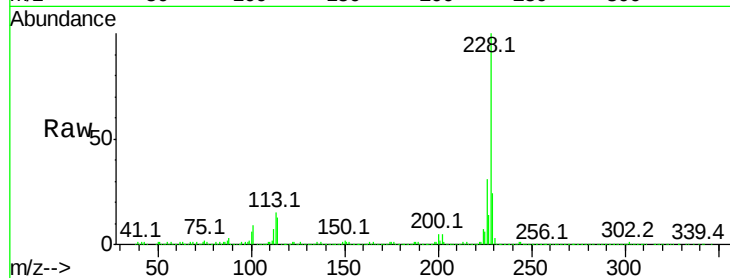
#82
Chrysene
Concen: 82.37 ng/ml
RT: 14.66 min Scan# 2172
Delta R.T. -0.00 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :
E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.9	37.3
229	23.7	15.8	23.6

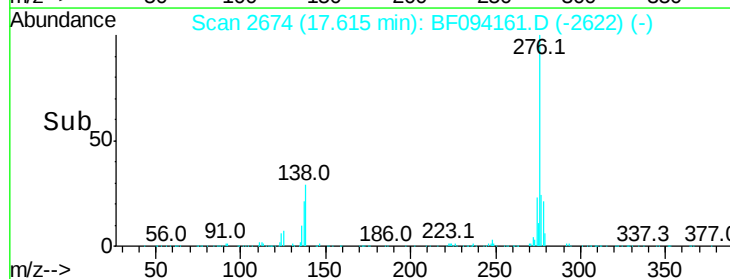
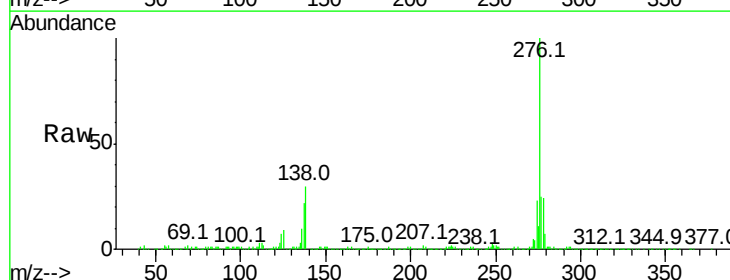
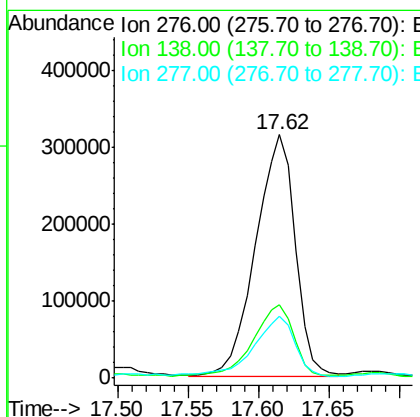
Manual Integrations
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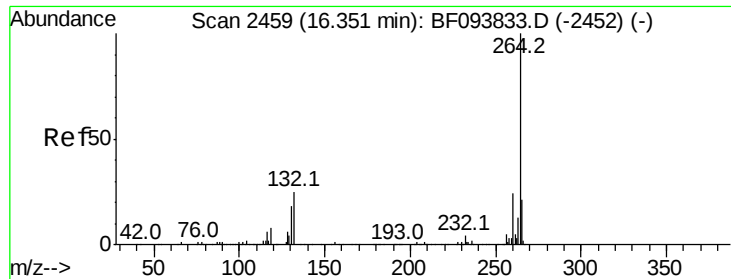
mohammad
4/4/2017 5:35:34 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 47.84 ng
RT: 17.62 min Scan# 2674
Delta R.T. 0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.5	27.8	41.6
277	25.5	20.2	30.4





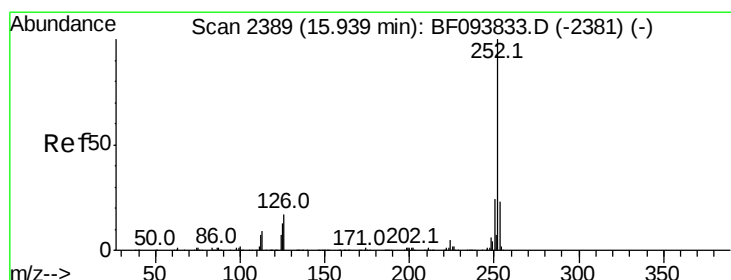
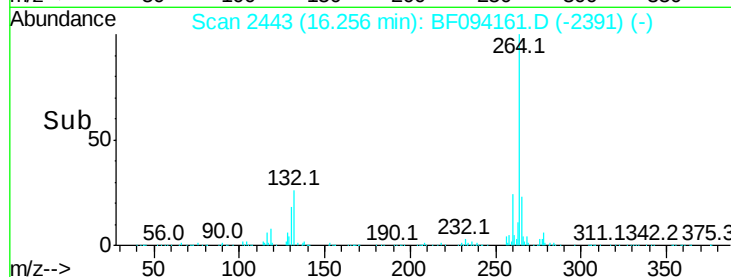
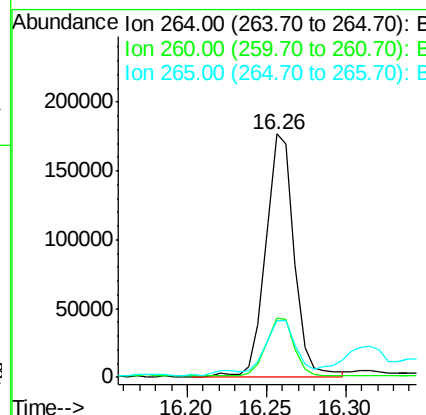
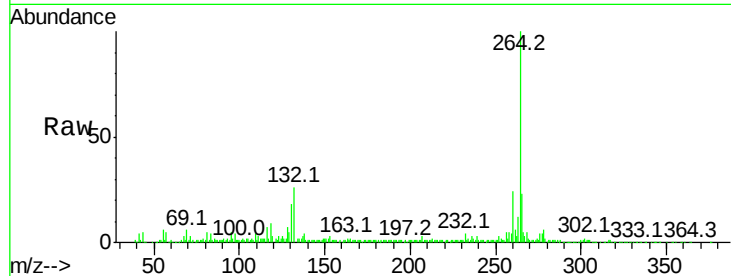
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.26 min Scan# 2443
Delta R.T. 0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :
E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	23.5	17.2	25.8

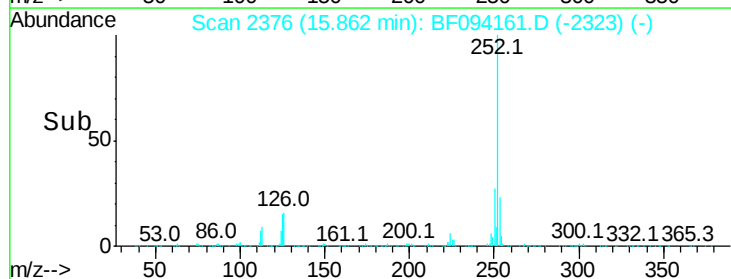
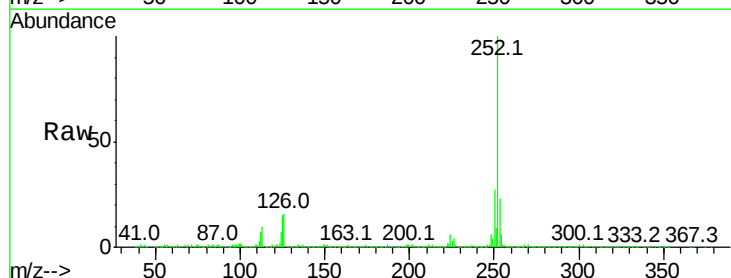
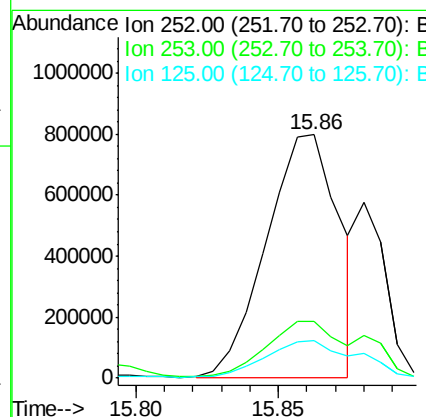
Manual Integrations
APPROVED

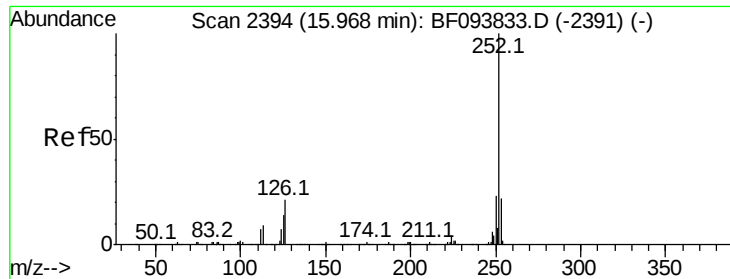
mohammad
4/4/2017 5:35:34 PM



#87
Benzo(b)fluoranthene
Concen: 103.73 ng m
RT: 15.86 min Scan# 2376
Delta R.T. 0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	15.3	9.8	14.8





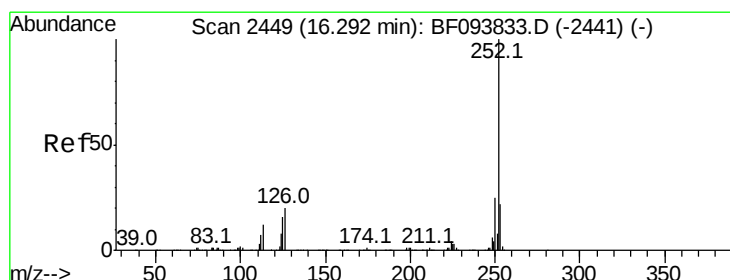
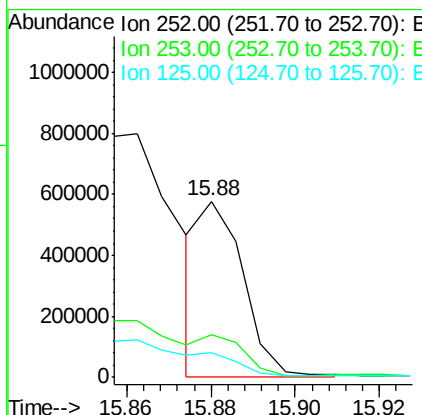
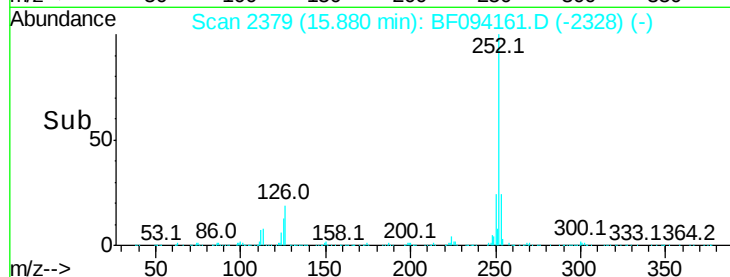
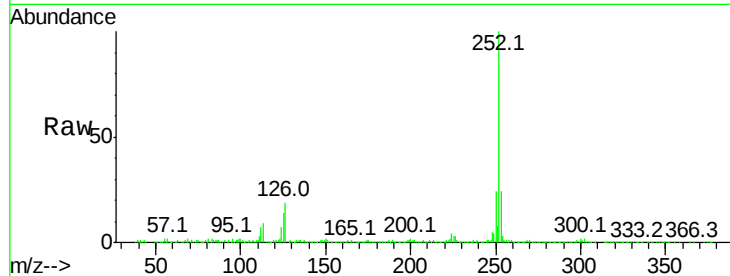
#88
Benzo(k)fluoranthene
Concen: 31.21 ng m
RT: 15.88 min Scan# 2379
Delta R.T. -0.00 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :
E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.4	27.6
125	13.9	13.1	19.7

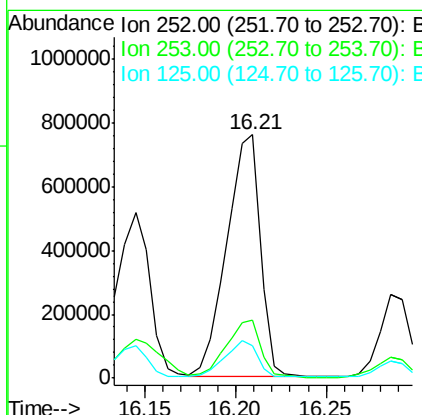
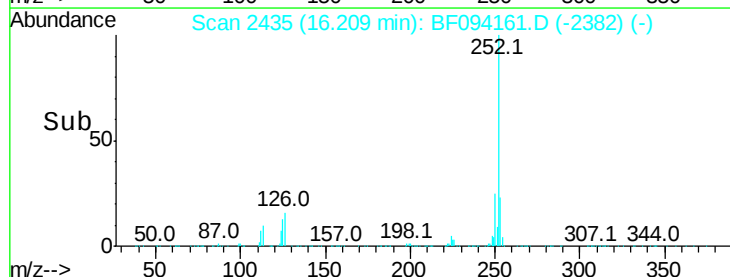
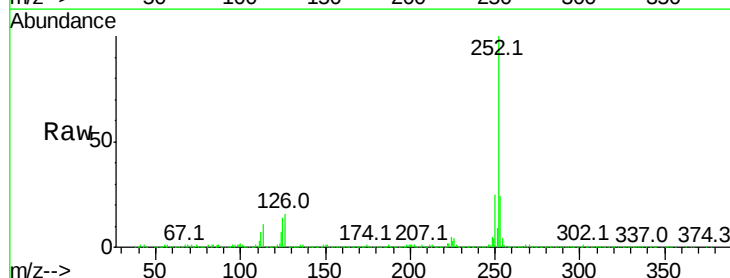
Manual Integrations
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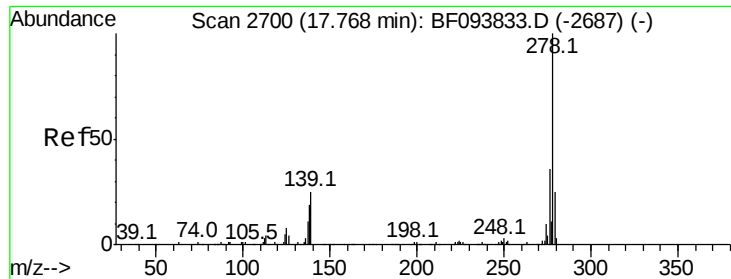
mohammad
4/4/2017 5:35:34 PM



#89
Benzo(a)pyrene
Concen: 78.38 ng
RT: 16.21 min Scan# 2435
Delta R.T. 0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	13.6	11.0	16.4





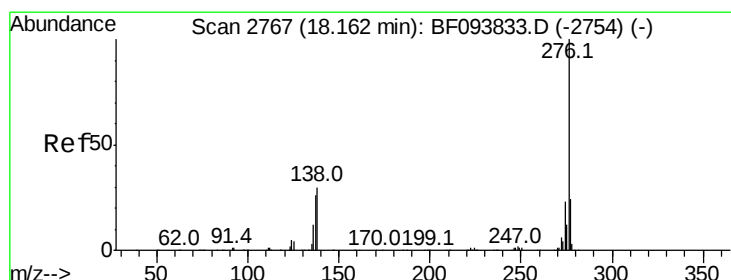
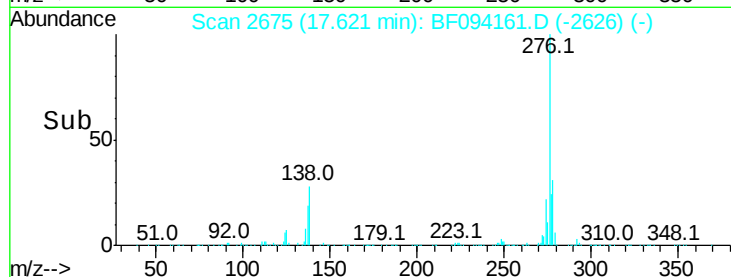
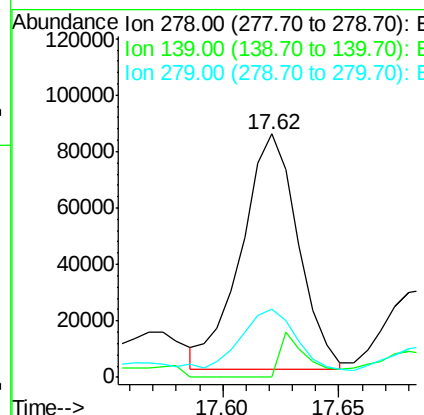
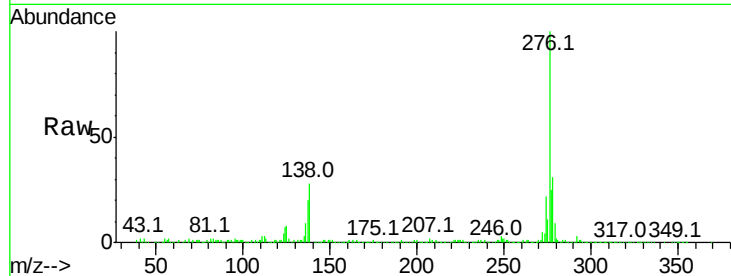
#90
Dibenzo(a,h)anthracene
Concen: 13.33 ng/mL
RT: 17.62 min Scan# 2675
Delta R.T. -0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :
E2-U4-NSW

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	28.2	19.3	28.9

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:34 PM



#91
Benzo(g,h,i)perylene
Concen: 56.62 ng/mL
RT: 18.02 min Scan# 2742
Delta R.T. 0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	31.2	25.4	38.0

