

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062117\
 Data File : BF096086.D
 Acq On : 21 Jun 2017 16:03
 Operator : SJ/MA
 Sample : I3782-09
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK4-DUP-20170619

Manual Integrations
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Quant Time: Jun 21 16:37:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 16:05:47 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.29	152	89117	20.00	ng	0.00
21) Naphthalene-d8	9.32	136	322255	20.00	ng	0.00
38) Acenaphthene-d10	12.14	164	140370	20.00	ng	-0.01
63) Phenanthrene-d10	14.53	188	218182	20.00	ng	0.00
75) Chrysene-d12	18.27	240	145501	20.00	ng	0.00
86) Perylene-d12	19.96	264	133399	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	640100	114.45	ng	0.00
7) Phenol-d6	6.87	99	788150	117.71	ng	0.00
23) Nitrobenzene-d5	8.21	82	464947	89.60	ng	-0.01
41) 2,4,6-Tribromophenol	13.44	330	125042	100.68	ng	0.00
44) 2-Fluorobiphenyl	11.10	172	777442	77.07	ng	0.00
78) Terphenyl-d14	16.92	244	440108	75.07	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.36	128	47533	2.94	ng	99
37) 2-Methylnaphthalene	10.49	142	33339	3.05	ng	97
48) Acenaphthylene	11.92	152	68761	4.45	ng	98
49) Dimethylphthalate	11.80	163	122536	11.50	ng	99
51) Acenaphthene	12.19	154	88985	9.97	ng	99
54) Dibenzofuran	12.49	168	65537	5.22	ng	98
57) Fluorene	13.03	166	106112	9.70	ng	95
70) Phenanthrene	14.59	178	1271518	101.00	ng	98
71) Anthracene	14.66	178	260855	19.85	ng	97
72) Carbazole	14.97	167	65549	5.12	ng	98
74) Fluoranthene	16.37	202	1135688	91.15	ng	98
77) Pylene	16.68	202	1158722	106.73	ng	98
80) Benzo(a)anthracene	18.27	228	481413	56.91	ng	98
82) Chrysene	18.31	228	454526	53.76	ng	98
83) Bis(2-ethylhexyl)phthalate	18.34	149	14677	2.19	ng	# 84
84) Di-n-octyl phthalate	19.17	149	146319	13.28	ng	# 37
85) Indeno(1,2,3-cd)pyrene	21.12	276	169723	23.46	ng	# 89
87) Benzo(b)fluoranthene	19.55	252	445073m	53.28	ng	
88) Benzo(k)fluoranthene	19.57	252	124737m	15.62	ng	
89) Benzo(a)pyrene	19.90	252	327954	42.72	ng	# 93
90) Dibenz(a,h)anthracene	21.11	278	55504	8.52	ng	# 77
91) Benzo(g,h,i)perylene	21.44	276	159660	24.05	ng	97

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

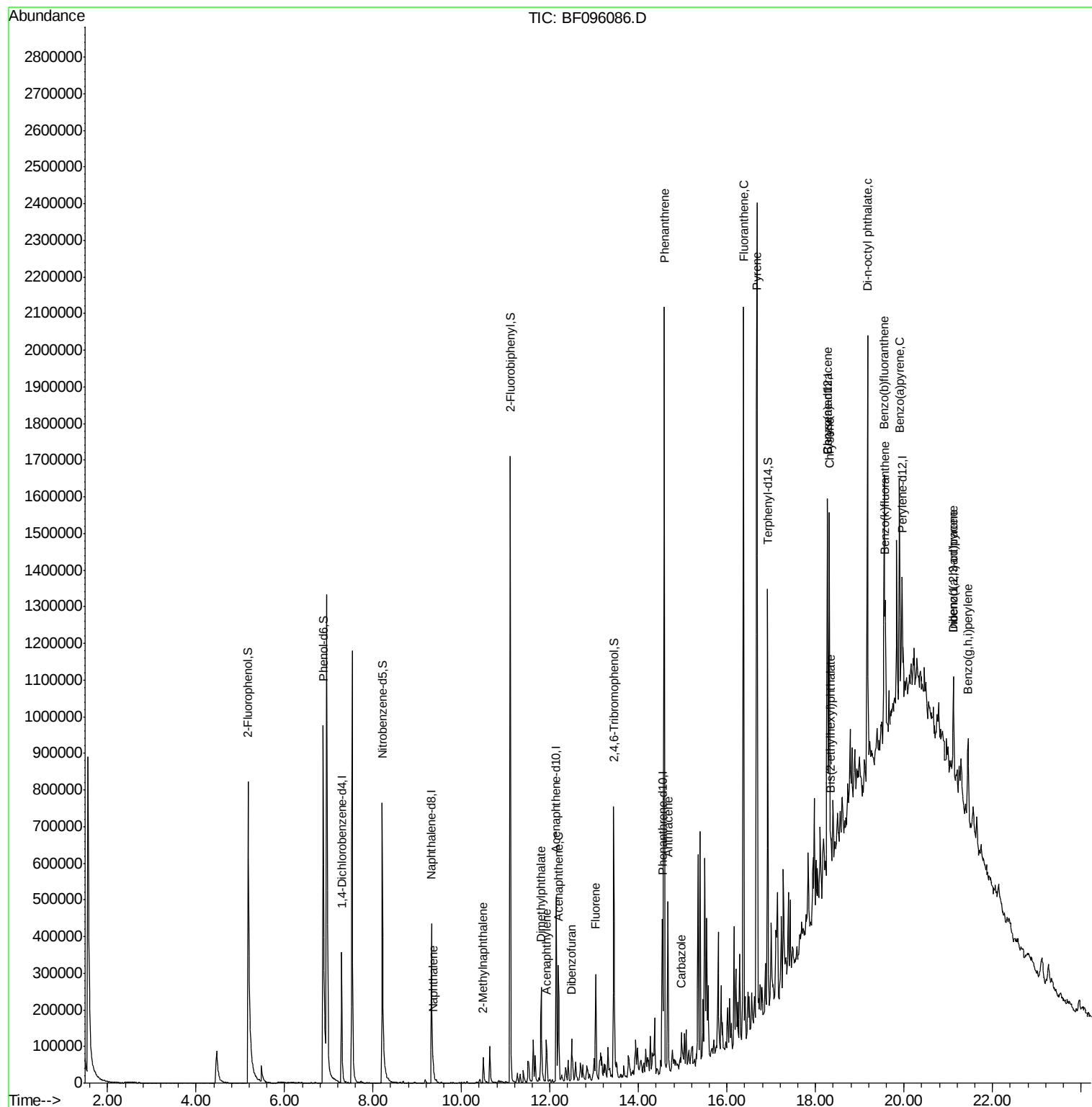
Data Path : Z:\HPCHEM1\BNA F\DATA\BF062117\
Data File : BF096086.D
Acq On : 21 Jun 2017 16:03
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ALS Vial : 7 Sample Multiplier: 1

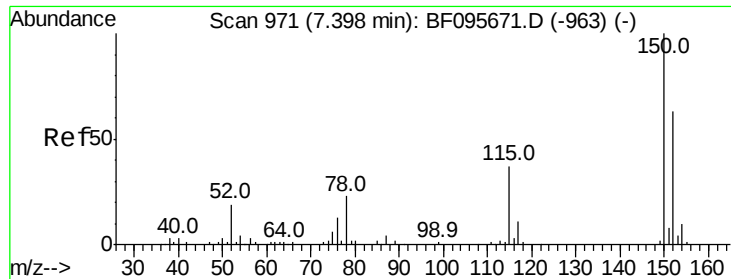
Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

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#1

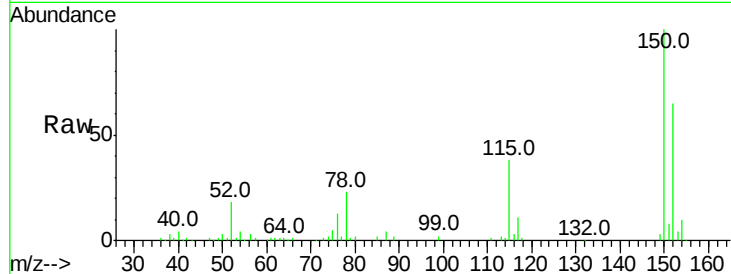
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.29 min Scan# 987
Delta R.T. 0.00 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

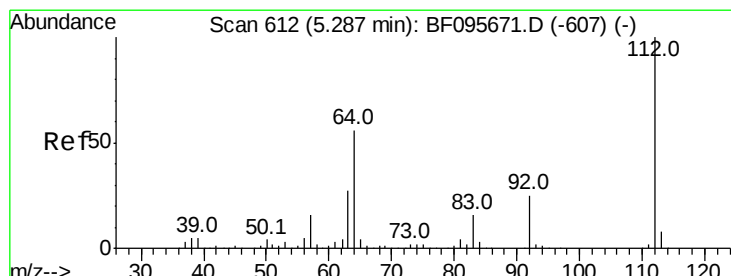
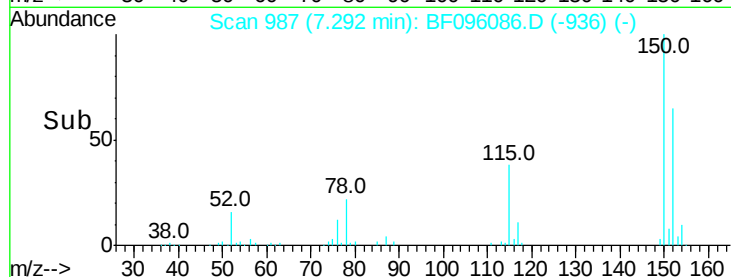
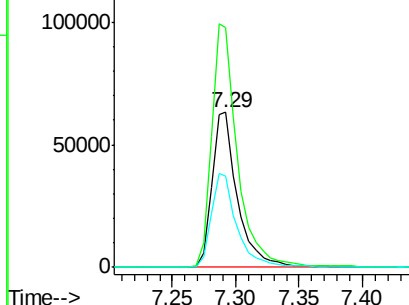
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	126.2	189.2
115	59.1	52.2	78.2

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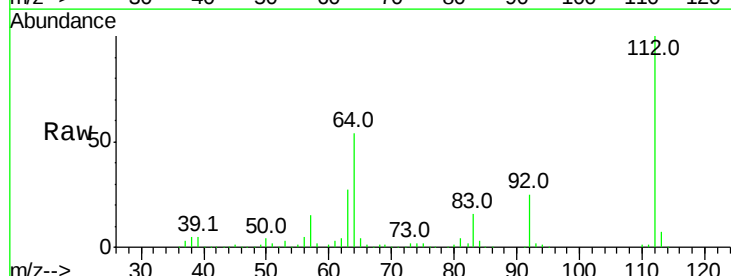
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



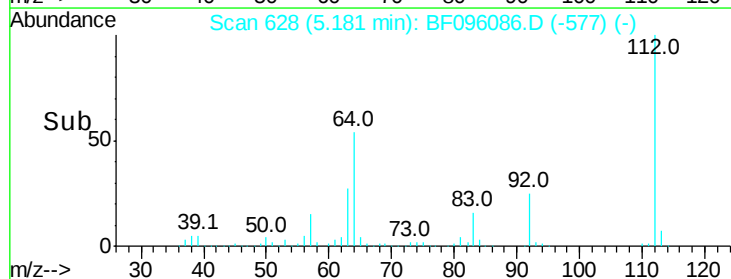
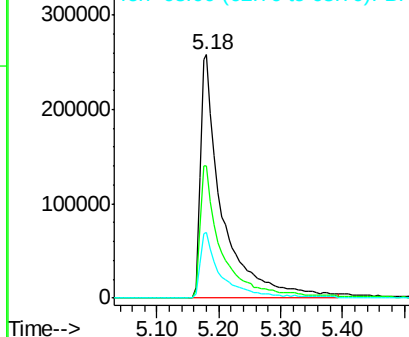
#5

2-Fluorophenol
Concen: 114.45 ng
RT: 5.18 min Scan# 628
Delta R.T. 0.00 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	46.0	69.0
63	26.7	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 117.71 ng

RT: 6.87 min Scan# 915

Delta R.T. -0.01 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Instrument :

BNA_F

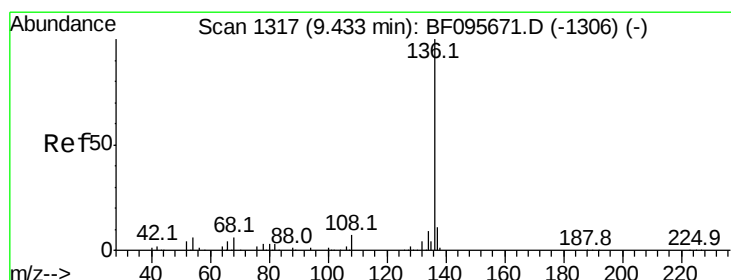
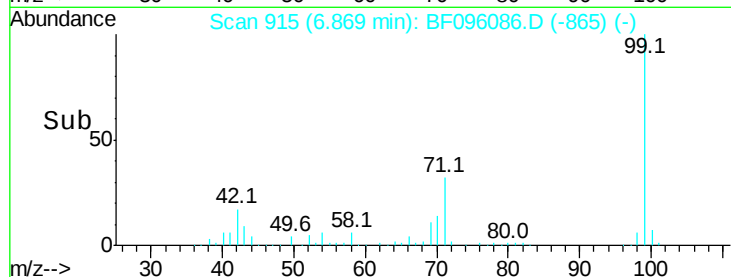
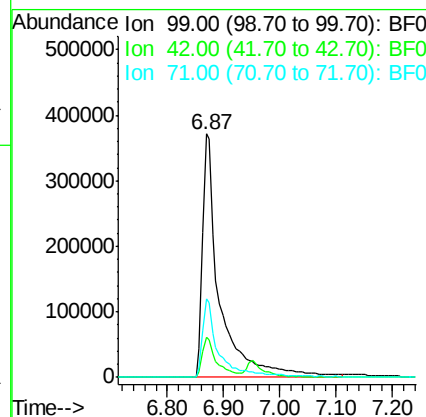
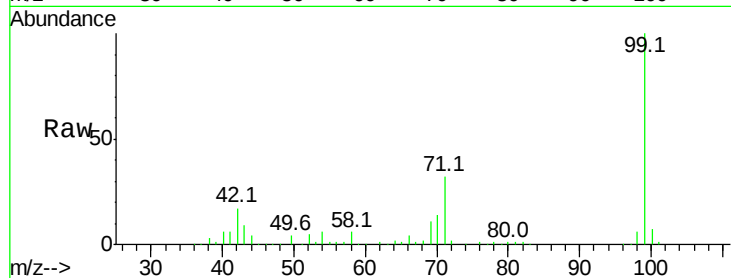
ClientSampleId :

TK4-DUP-20170619

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		788150		
42	16.6	13.5	20.3		
71	32.4	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

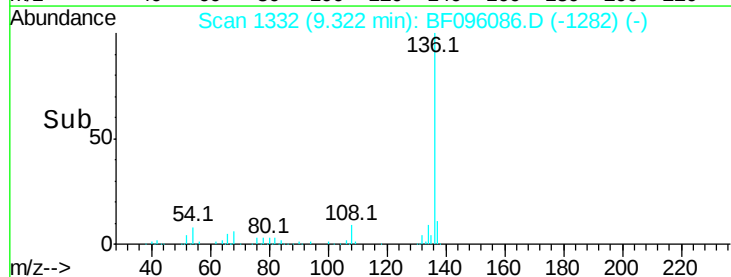
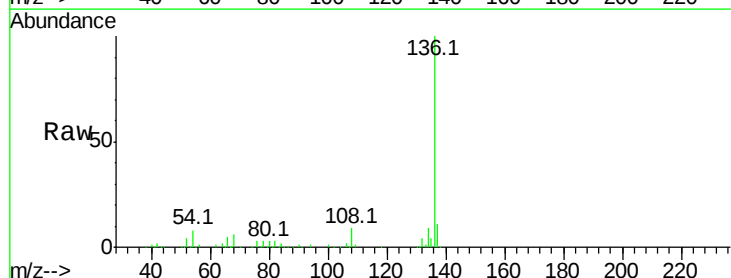
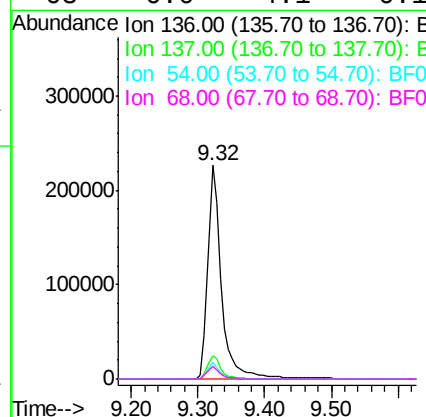
RT: 9.32 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		322255		
137	10.6	8.5	12.7		
54	7.5	4.9	7.3#		
68	6.0	4.1	6.1		





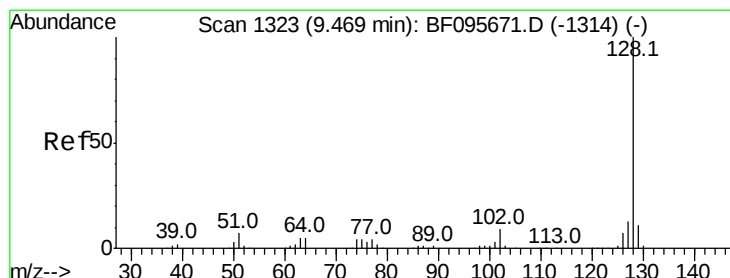
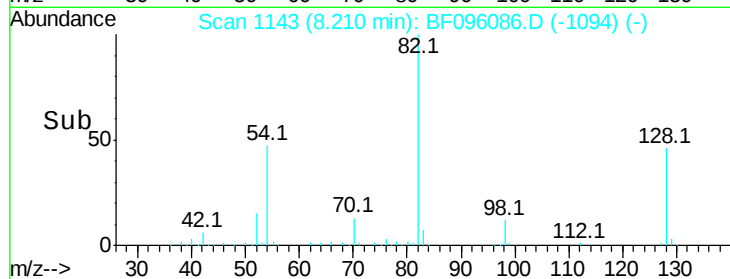
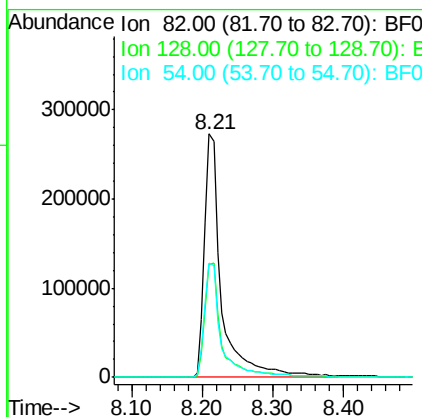
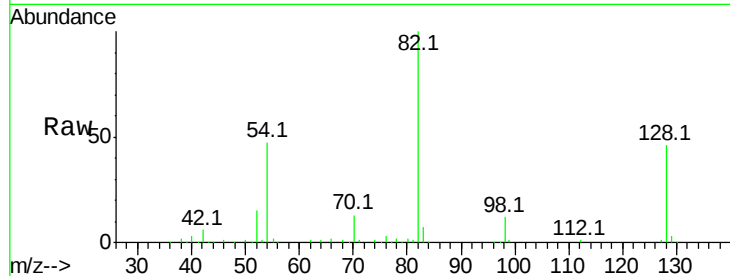
#23
 Nitrobenzene-d5
 Concen: 89.60 ng
 RT: 8.21 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Instrument :
 BNA_F
 ClientSampleId :
 TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.3	34.0	51.0
54	46.8	42.2	63.2

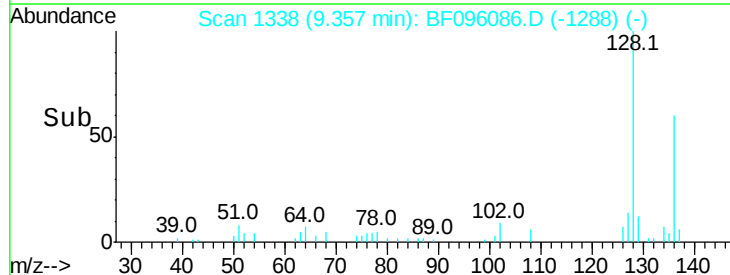
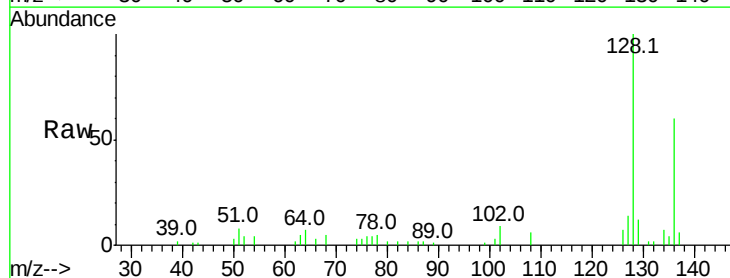
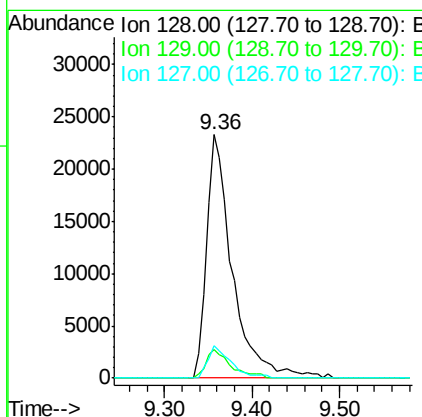
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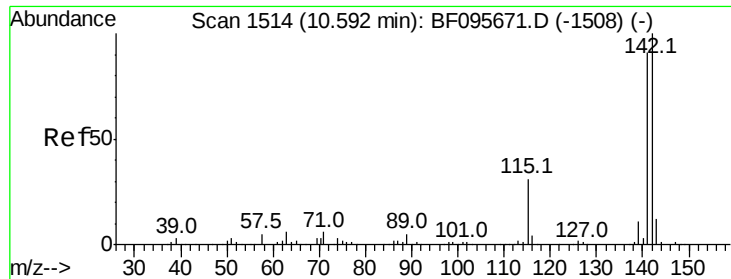
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#31
 Naphthalene
 Concen: 2.94 ng
 RT: 9.36 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.0	13.6
127	13.5	10.8	16.2





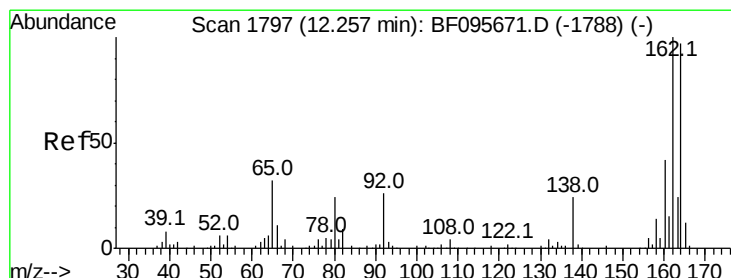
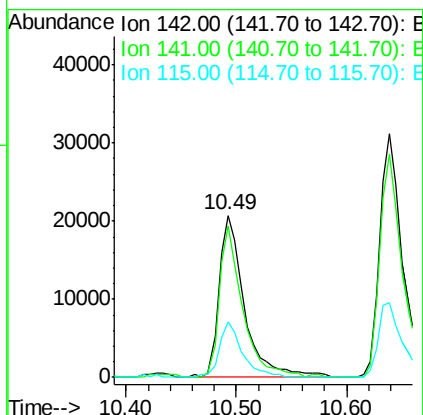
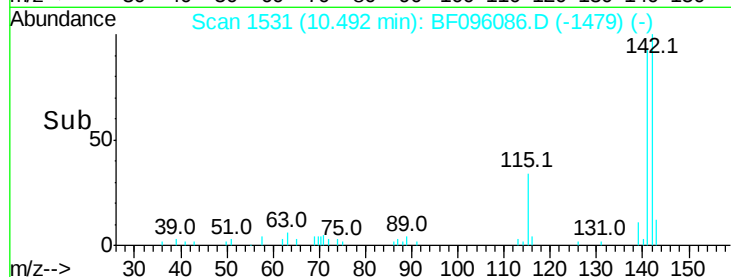
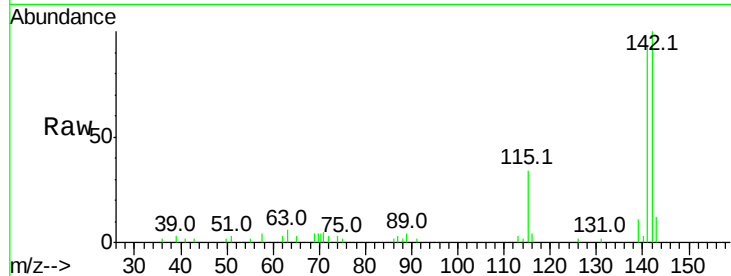
#37
2-Methylnaphthalene
Concen: 3.05 ng
RT: 10.49 min Scan# 1531
Delta R.T. 0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
142	100		
141	93.1	71.3	106.9
115	34.0	27.1	40.7

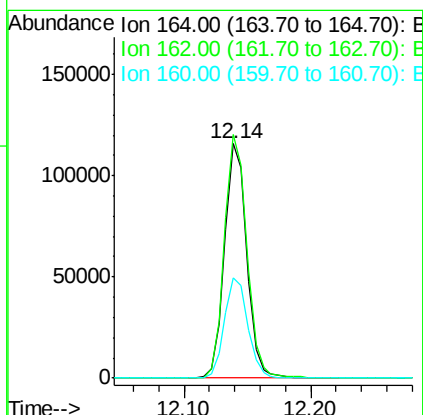
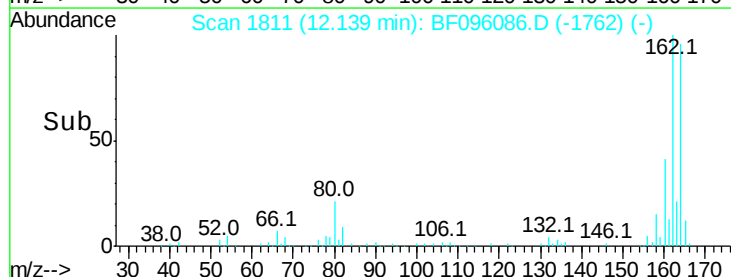
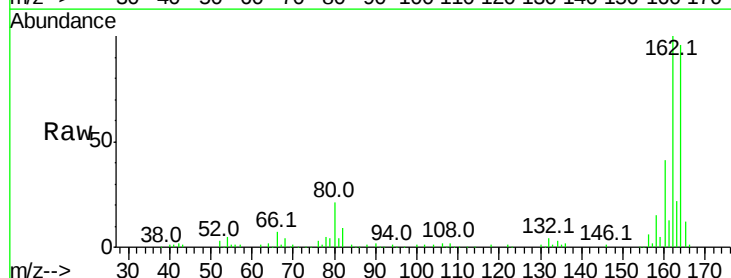
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.14 min Scan# 1811
Delta R.T. -0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	82.6	123.8
160	42.8	36.2	54.2





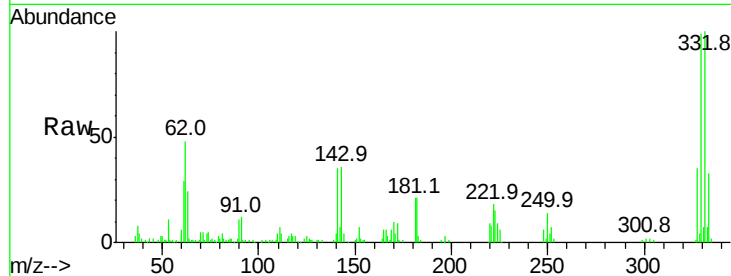
#41
 2,4,6-Tribromophenol
 Concen: 100.68 ng
 RT: 13.44 min Scan# 2033
 Delta R.T. -0.01 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Instrument :
 BNA_F
 ClientSampleId :
 TK4-DUP-20170619

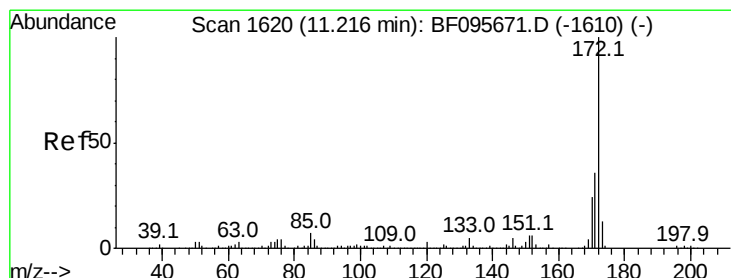
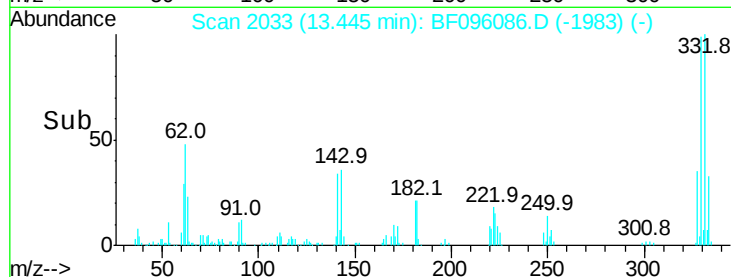
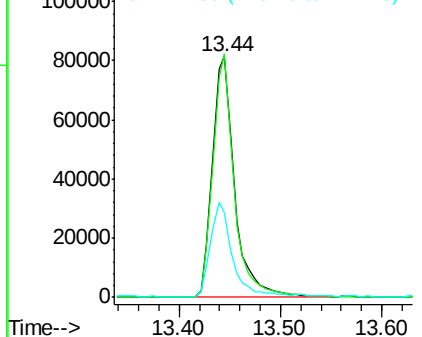
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.3	76.6	115.0	
141	40.1	31.4	47.2	

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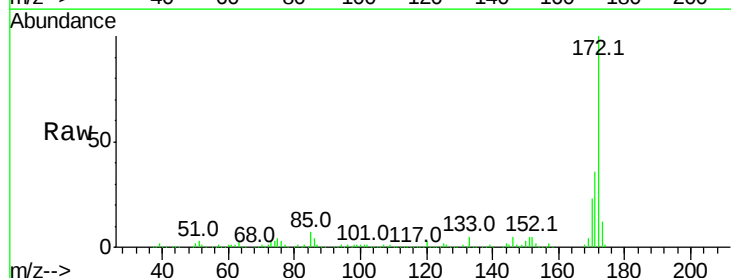


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

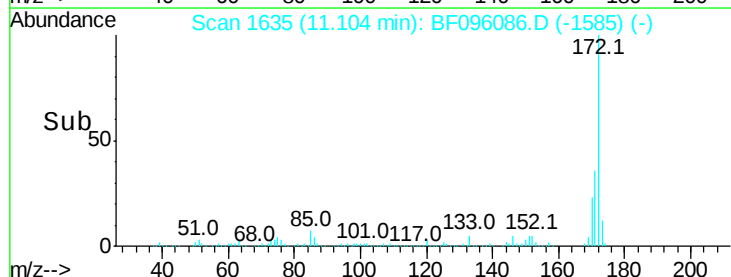
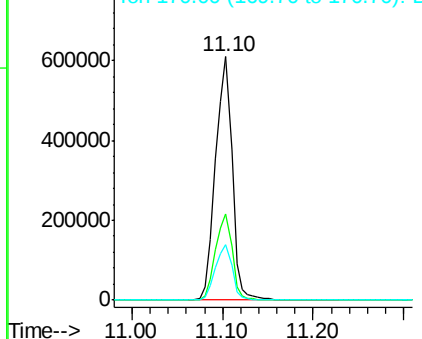


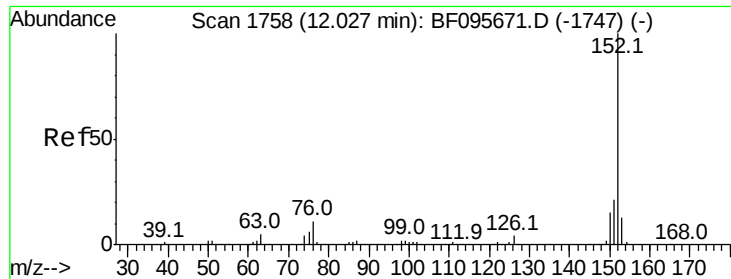
#44
 2-Fluorobiphenyl
 Concen: 77.07 ng
 RT: 11.10 min Scan# 1635
 Delta R.T. -0.01 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.6	29.6	44.4	
170	22.8	19.8	29.8	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





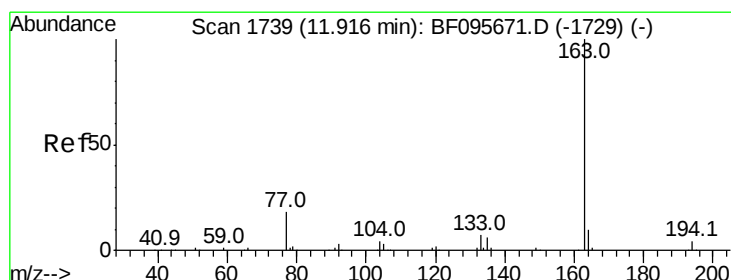
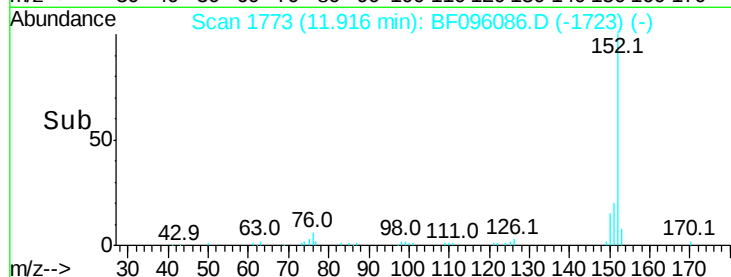
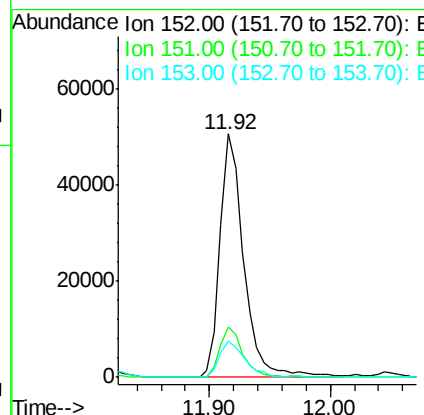
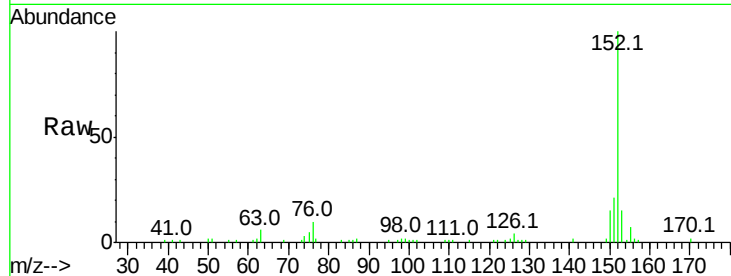
#48
Acenaphthylene
Concen: 4.45 ng
RT: 11.92 min Scan# 1773
Delta R.T. -0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

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Tot Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.8	25.2
153	15.0	10.8	16.2

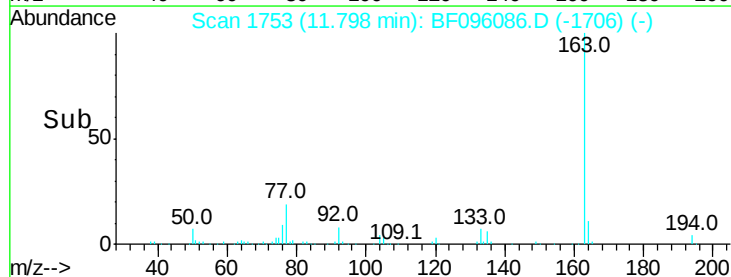
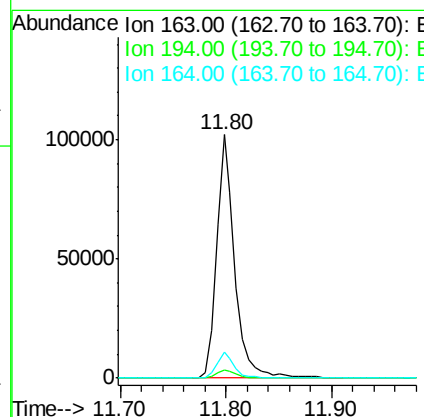
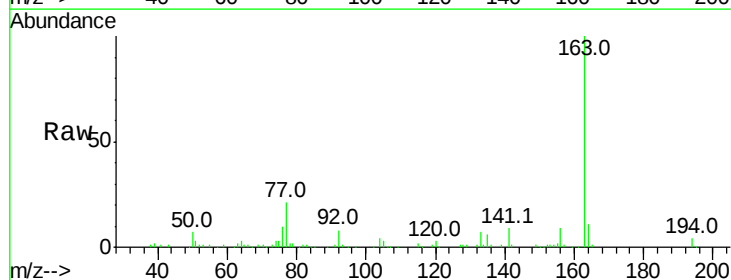
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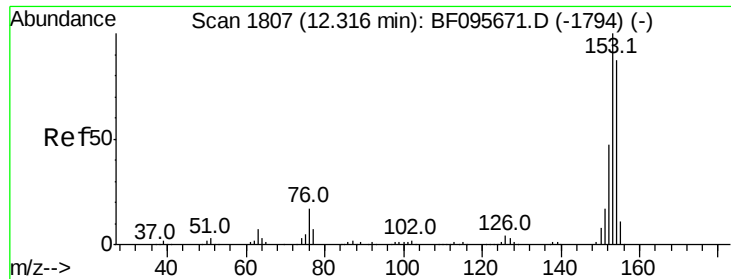
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#49
Dimethylphthalate
Concen: 11.50 ng
RT: 11.80 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.6	4.0
164	10.7	8.4	12.6





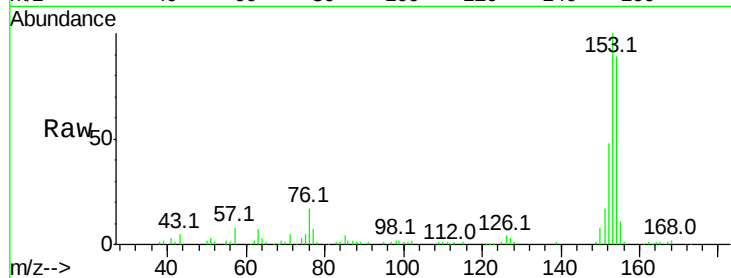
#51
Acenaphthene
Concen: 9.97 ng
RT: 12.19 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

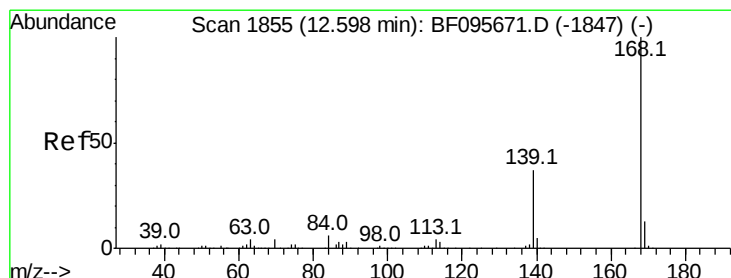
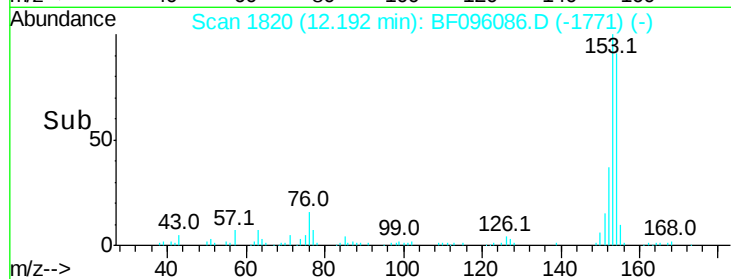
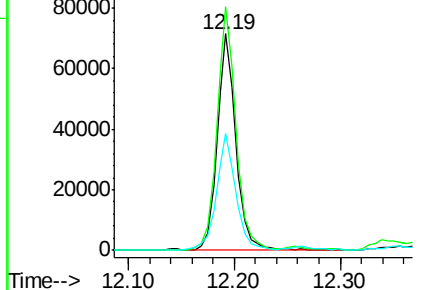
Tot Ion	Ratio	Lower	Upper
154	100		
153	112.6	90.5	135.7
152	53.8	43.6	65.4

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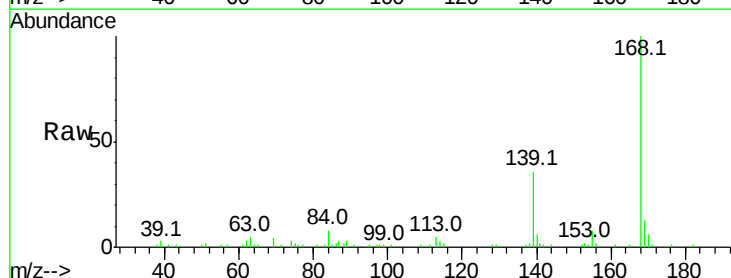


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

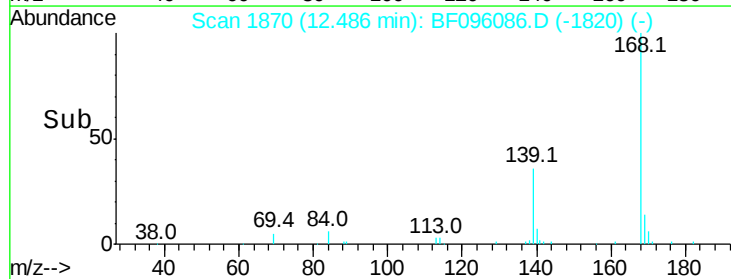
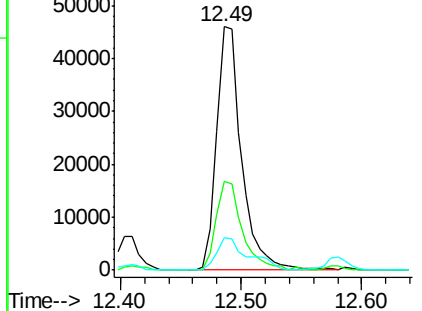


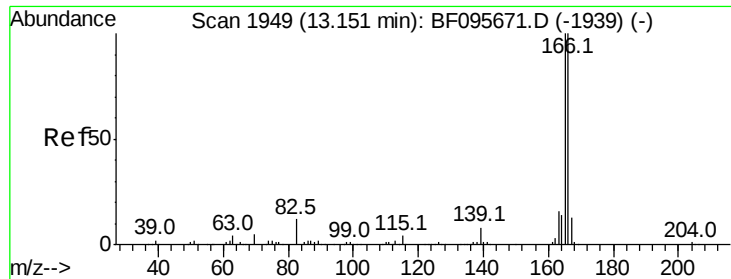
#54
Dibenzofuran
Concen: 5.22 ng
RT: 12.49 min Scan# 1870
Delta R.T. -0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.3	30.6	45.8
169	13.3	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





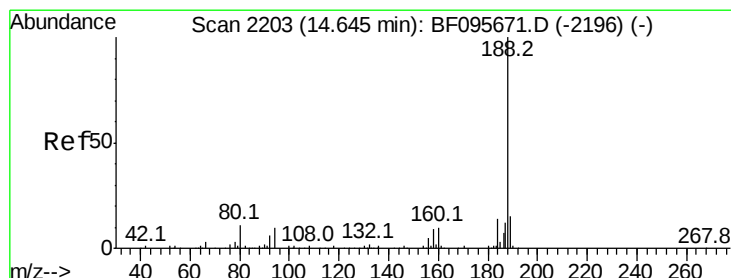
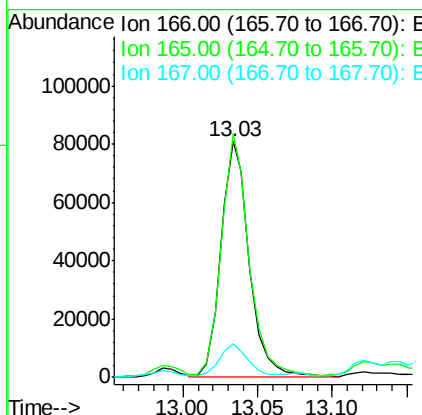
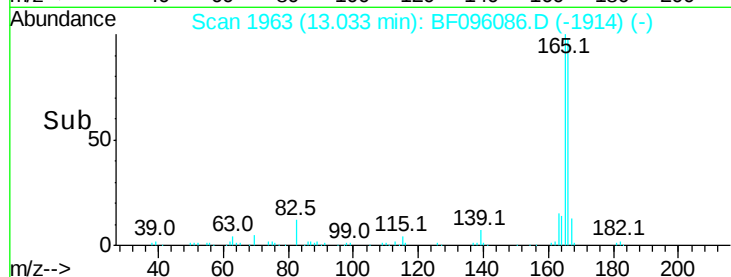
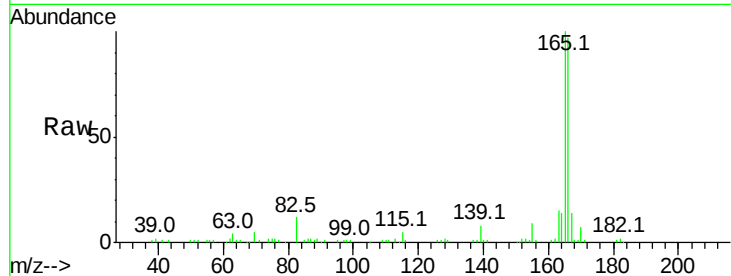
#57
Fluorene
Concen: 9.70 ng
RT: 13.03 min Scan# 1963
Delta R.T. -0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
166	100		
165	103.2	78.8	118.2
167	14.4	10.6	16.0

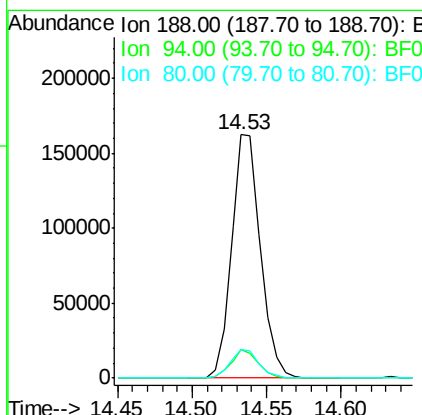
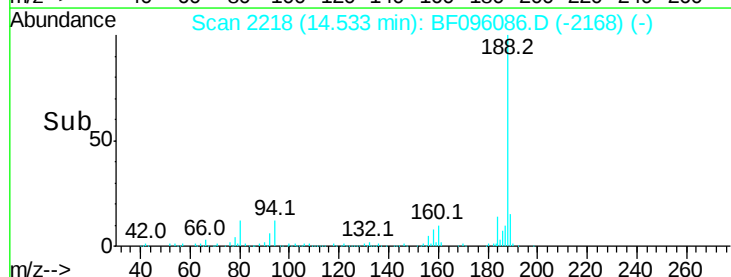
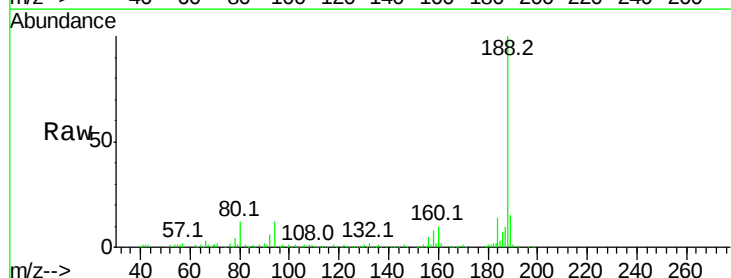
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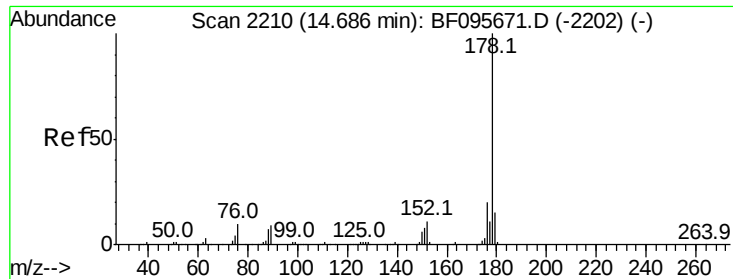
mohammad
6/22/2017 5:34:28 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.53 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	9.4	14.2
80	11.8	10.2	15.2





#70

Phenanthrene

Concen: 101.00 ng

RT: 14.59 min Scan# 2227

Delta R.T. 0.01 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Instrument :

BNA_F

ClientSampleId :

TK4-DUP-20170619

Tot Ion:178 Resp: 1271518

Ion Ratio Lower Upper

178 100

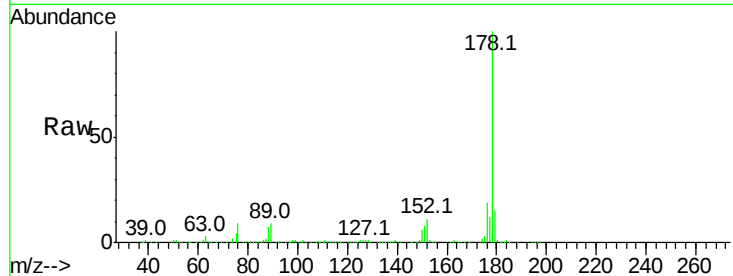
176 19.3 16.2 24.4

179 15.1 12.6 19.0

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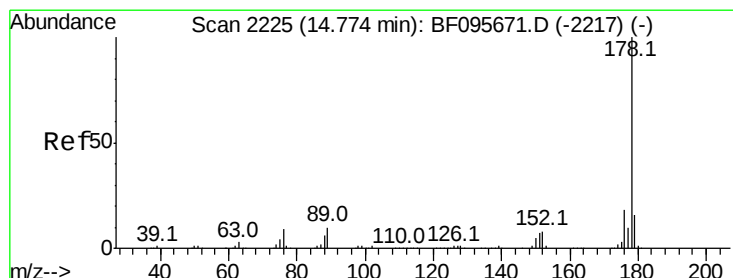
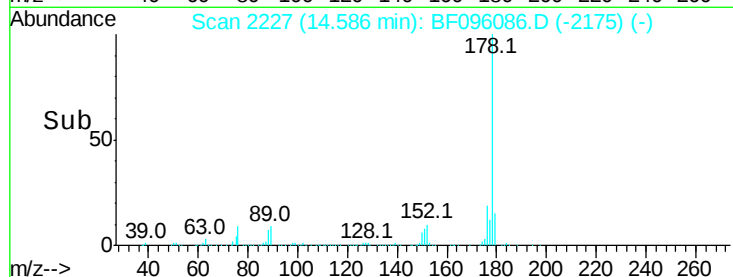
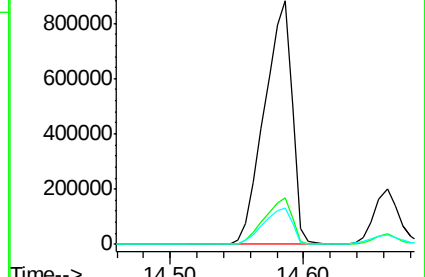
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 19.85 ng

RT: 14.66 min Scan# 2240

Delta R.T. -0.01 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

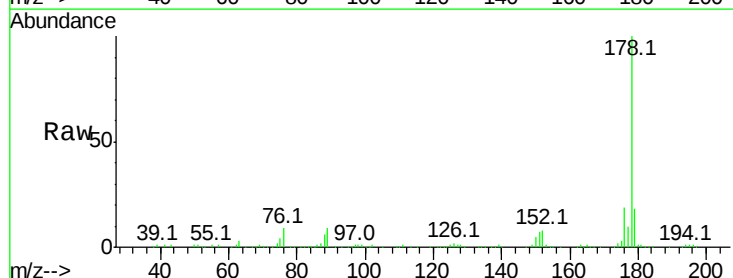
Tgt Ion:178 Resp: 260855

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

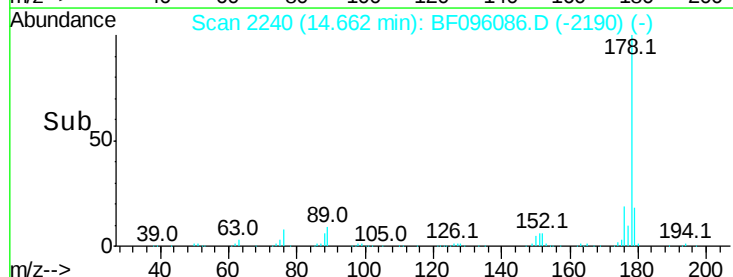
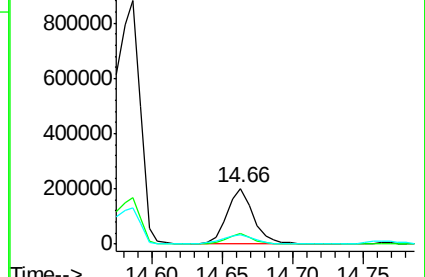
179 17.6 12.7 19.1

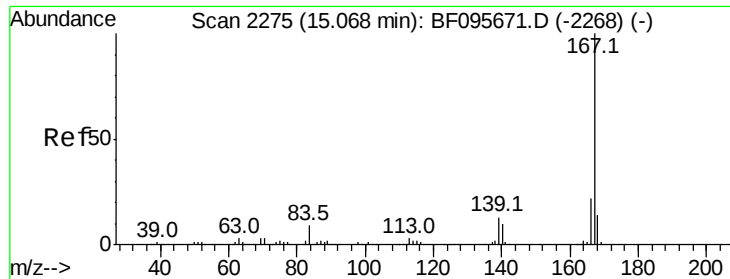


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.12 ng

RT: 14.97 min Scan# 2293

Delta R.T. 0.01 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Instrument :

BNA_F

ClientSampleId :

TK4-DUP-20170619

Tot Ion:167 Resp: 65549

Ion Ratio Lower Upper

167 100

166 22.3 18.1 27.1

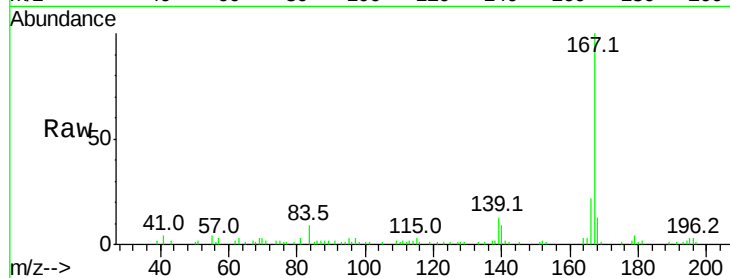
139 12.8 11.7 17.5

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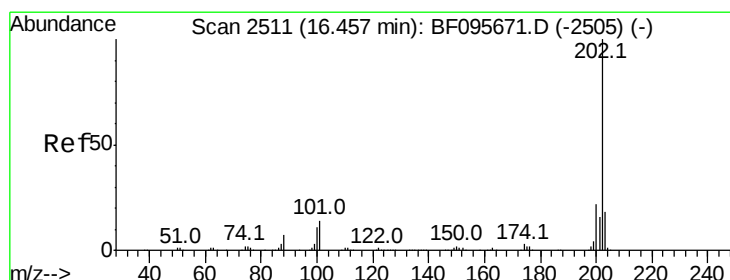
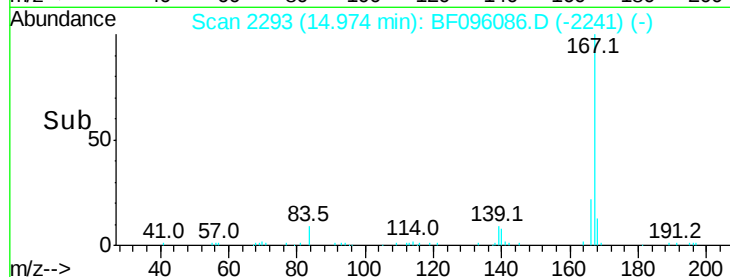
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

14.97

Time-->



#74

Fluoranthene

Concen: 91.15 ng

RT: 16.37 min Scan# 2531

Delta R.T. 0.01 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

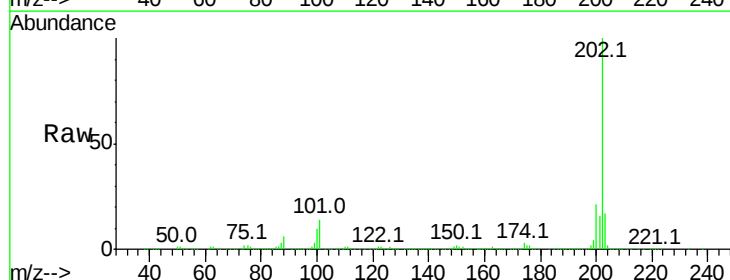
Tgt Ion:202 Resp: 1135688

Ion Ratio Lower Upper

202 100

101 13.9 0.0 33.2

203 17.3 0.0 38.1



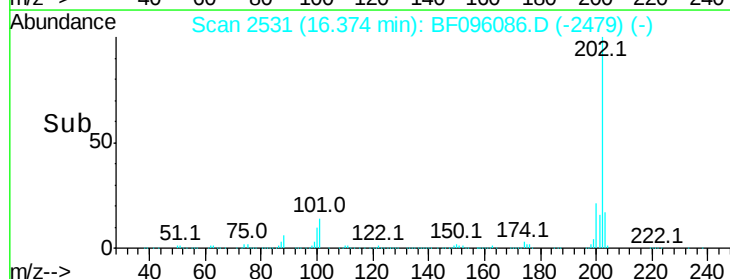
Abundance Ion 202.00 (201.70 to 202.70): E

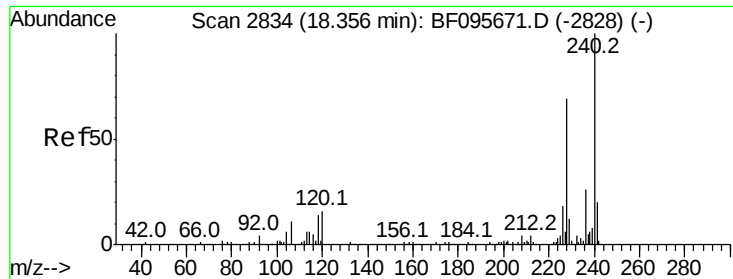
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

16.37

Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.27 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Instrument :

BNA_F

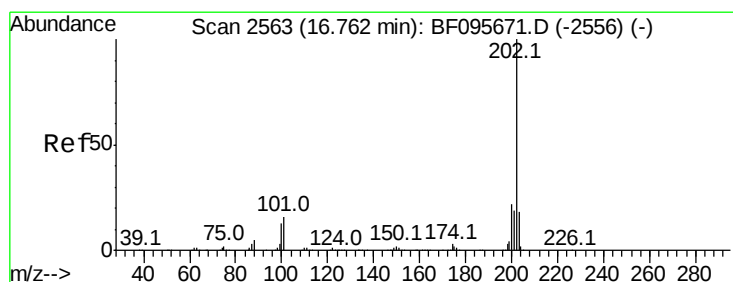
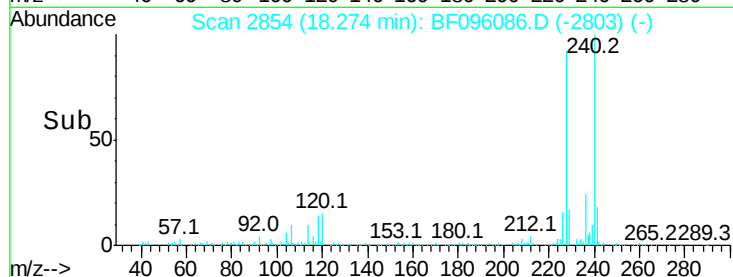
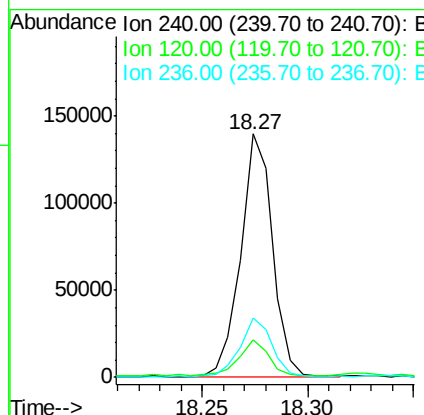
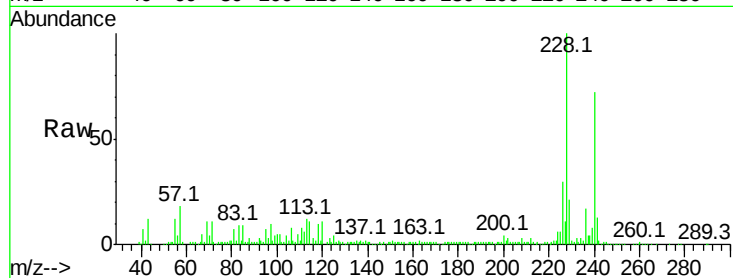
ClientSampleId :

TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.4	5.8	8.8#
236	24.4	20.5	30.7

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#77

Pyrene

Concen: 106.73 ng

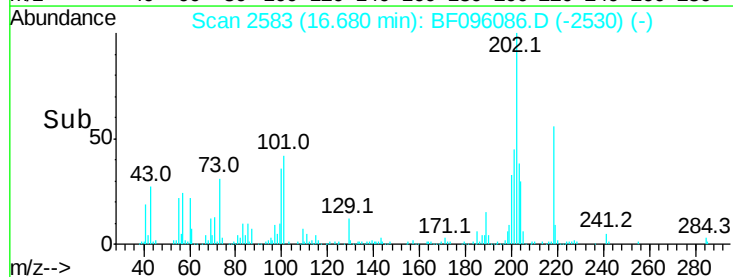
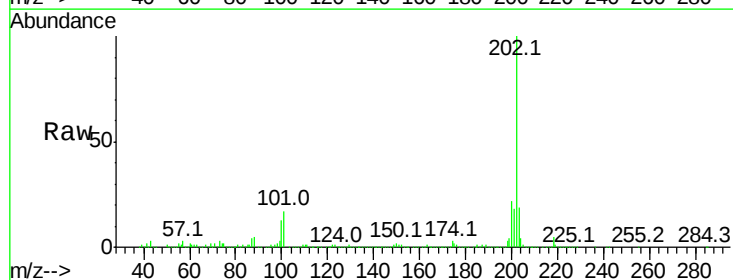
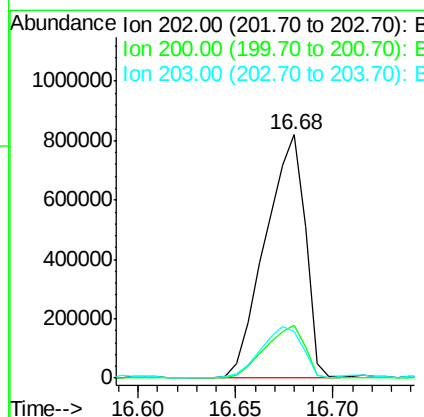
RT: 16.68 min Scan# 2583

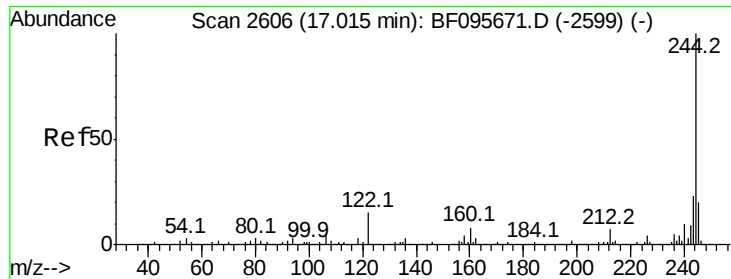
Delta R.T. 0.01 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	19.2	14.4	21.6





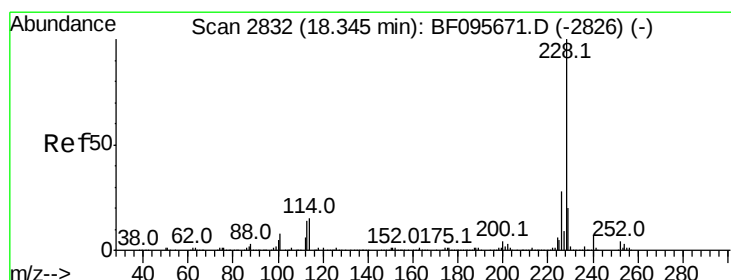
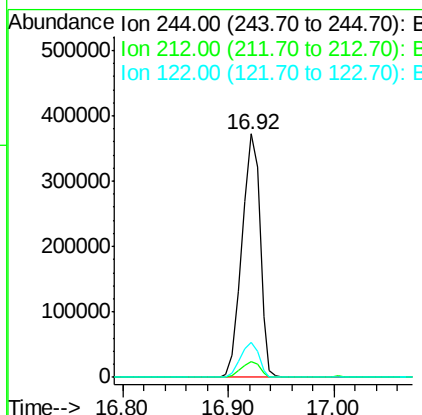
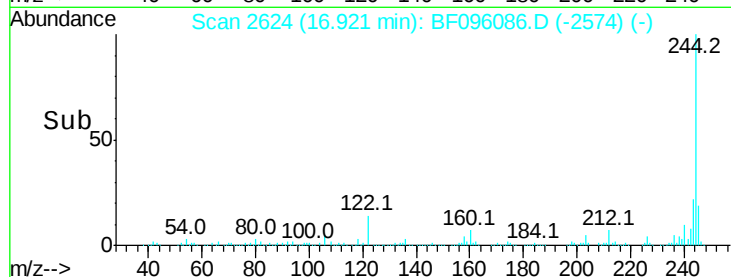
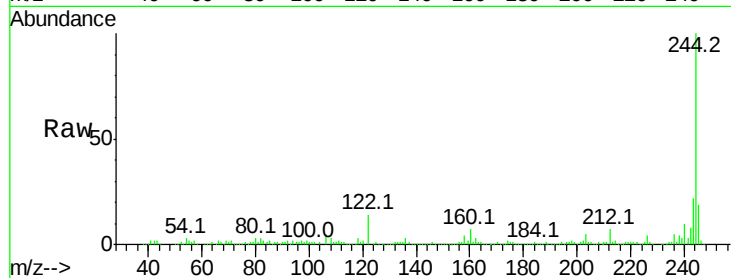
#78
 Terphenyl-d14
 Concen: 75.07 ng
 RT: 16.92 min Scan# 2624
 Delta R.T. -0.01 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Instrument :
 BNA_F
 ClientSampleId :
 TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.0	9.0
122	14.3	10.3	15.5

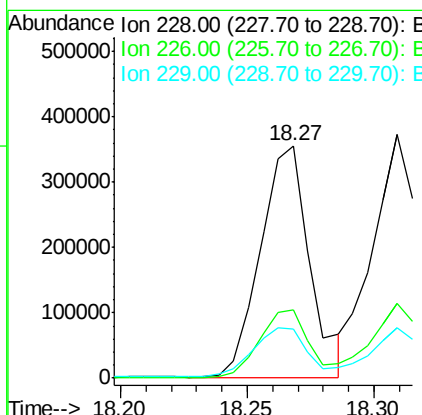
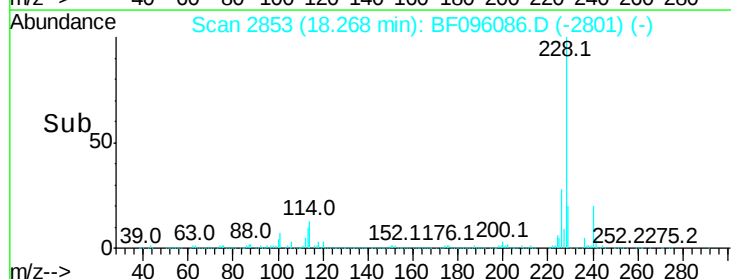
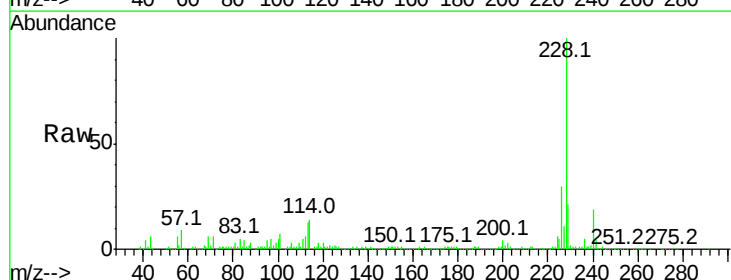
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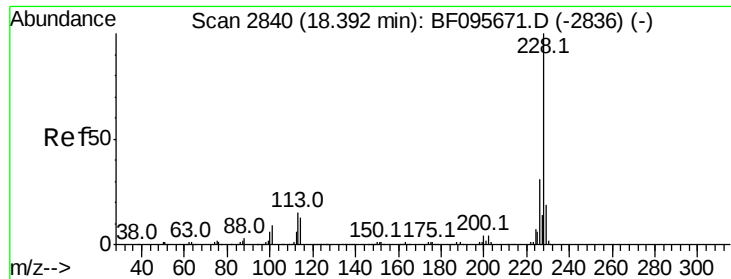
mohammad
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#80
 Benzo(a)anthracene
 Concen: 56.91 ng
 RT: 18.27 min Scan# 2853
 Delta R.T. 0.01 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	33.8
229	21.3	16.3	24.5





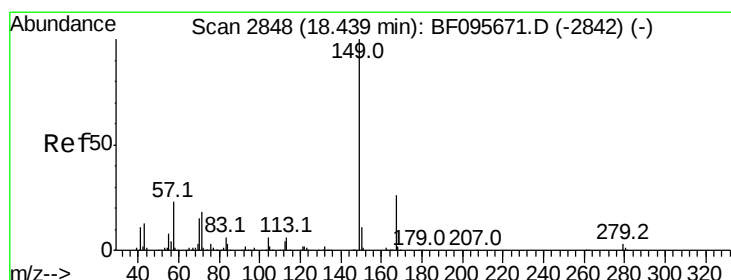
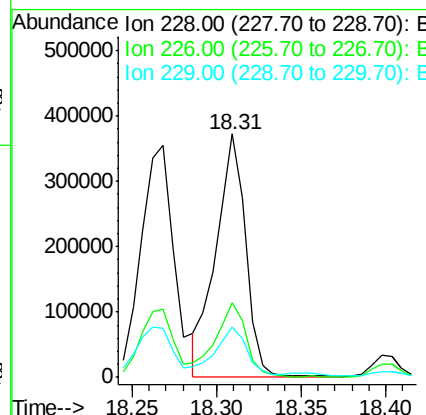
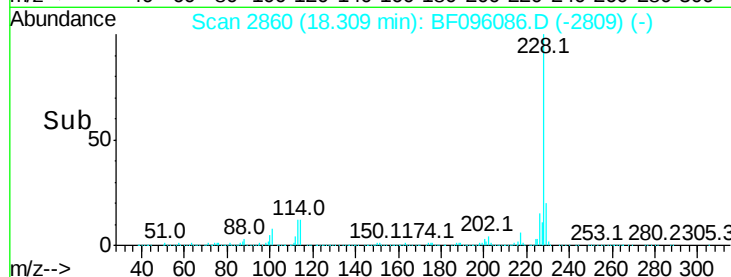
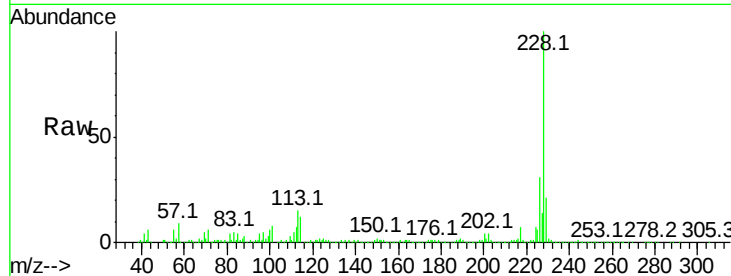
#82
 Chrysene
 Concen: 53.76 ng
 RT: 18.31 min Scan# 2860
 Delta R.T. 0.00 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Instrument :
 BNA_F
 ClientSampleId :
 TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.9	37.3
229	20.8	15.8	23.6

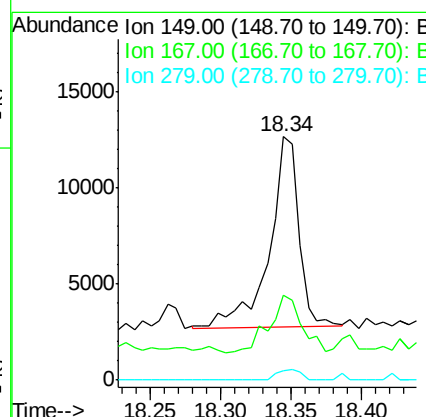
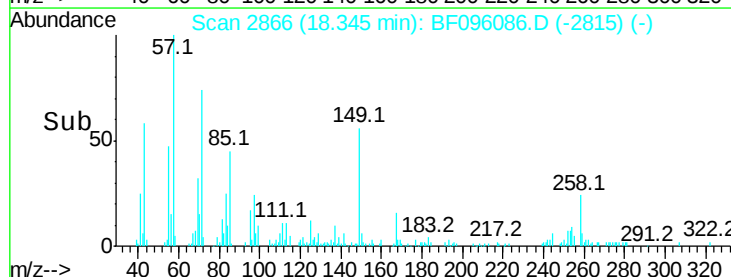
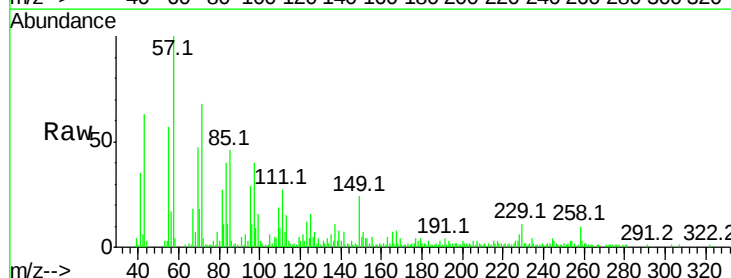
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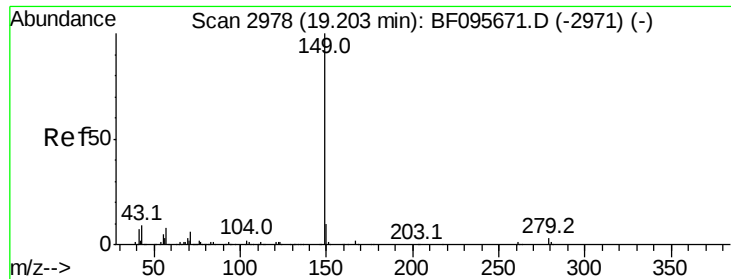
mohammad
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#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.19 ng
 RT: 18.34 min Scan# 2866
 Delta R.T. 0.00 min
 Lab File: BF096086.D
 Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
149	100		
167	34.9	21.0	31.4#
279	3.6	1.9	2.9#





#84

Di-n-octyl phthalate

Concen: 13.28 ng

RT: 19.17 min Scan# 3007

Delta R.T. 0.06 min

Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Instrument :

BNA_F

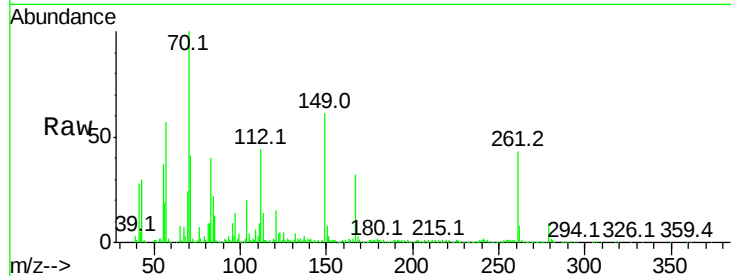
ClientSampleId :

TK4-DUP-20170619

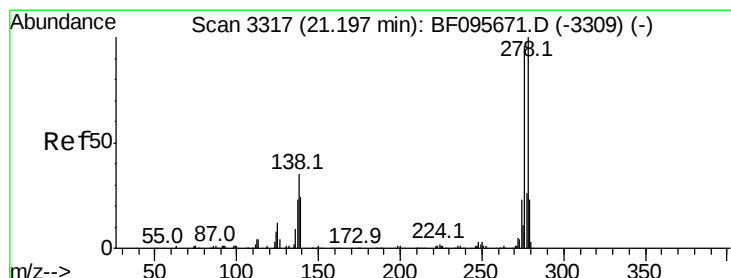
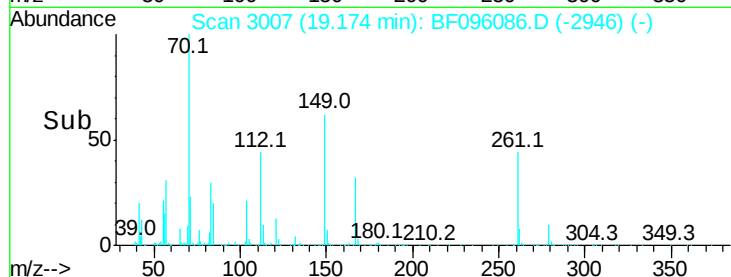
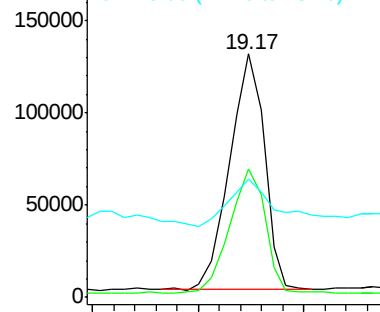
Tot Ion:	149	Resp:	146319
Ion Ratio	Lower	Upper	
149	100		
167	54.7	1.2	1.8#
43	30.4	8.5	12.7#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 43.00 (42.70 to 43.70): BF0



#85

Indeno(1,2,3-cd)pyrene

Concen: 23.46 ng

RT: 21.12 min Scan# 3338

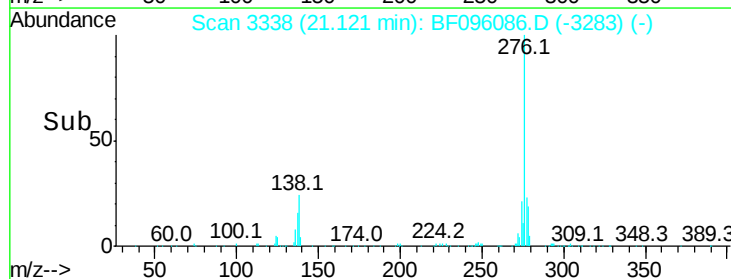
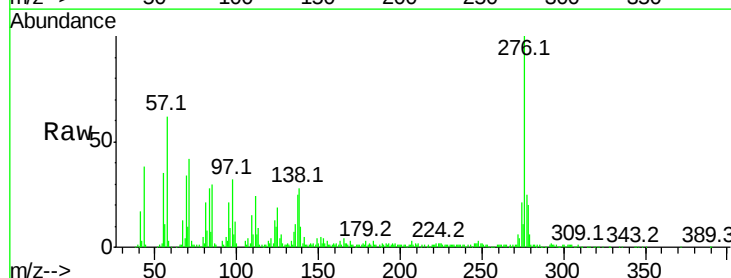
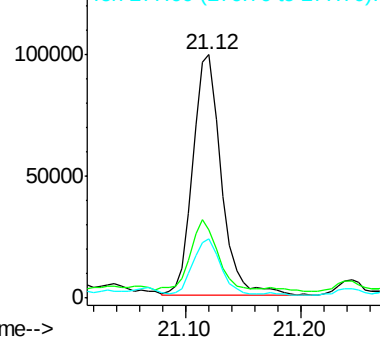
Delta R.T. 0.02 min

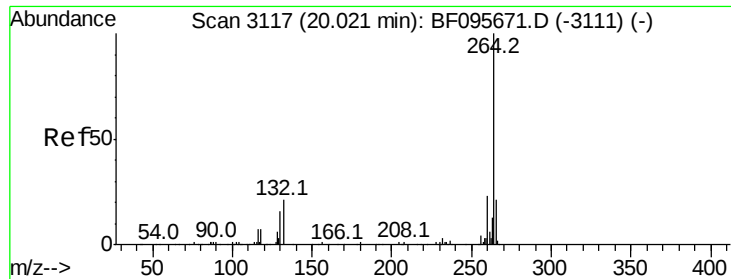
Lab File: BF096086.D

Acq: 21 Jun 2017 16:03

Tgt Ion:	276	Resp:	169723
Ion Ratio	Lower	Upper	
276	100		
138	26.5	27.8	41.6#
277	22.0	20.2	30.4

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





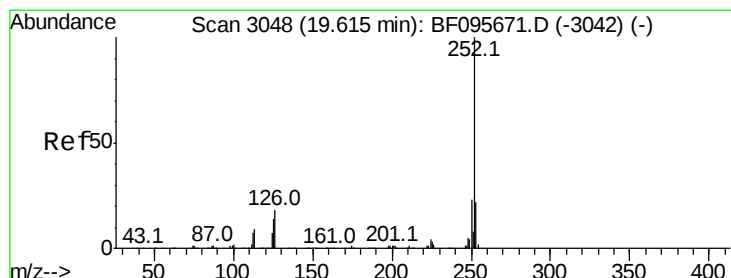
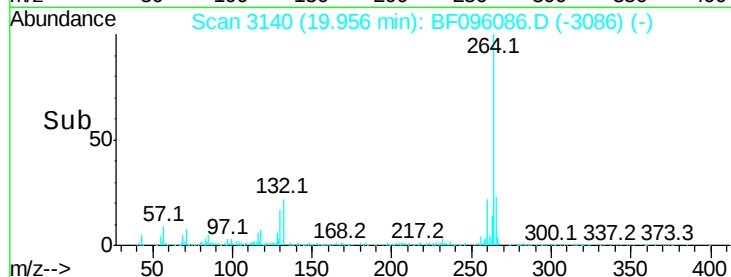
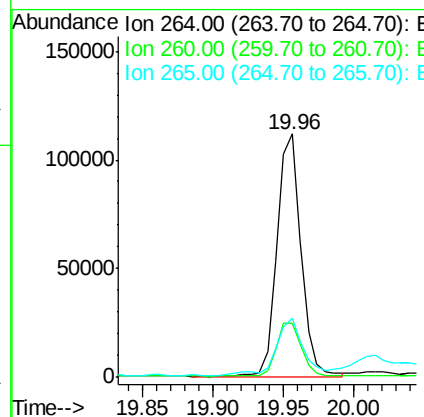
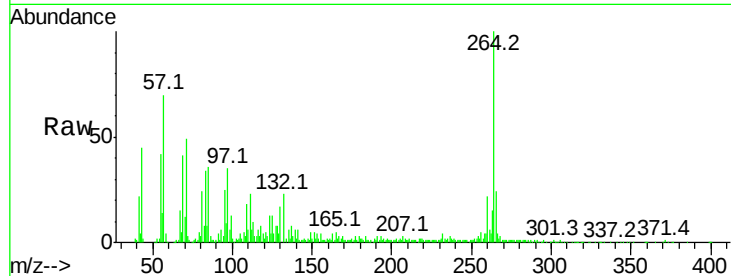
#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.96 min Scan# 3140
Delta R.T. 0.02 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.5	29.3
265	24.3	17.2	25.8

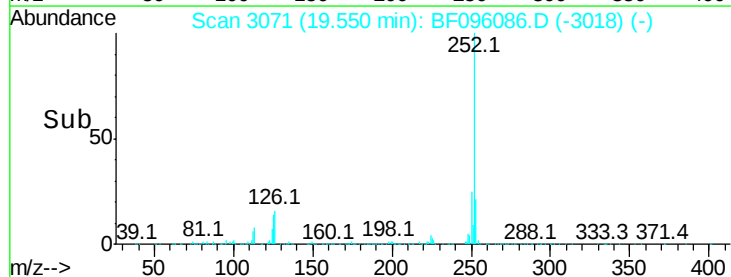
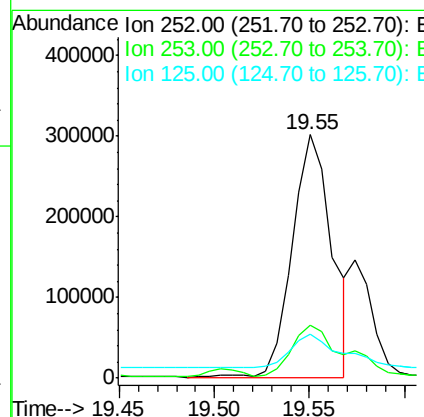
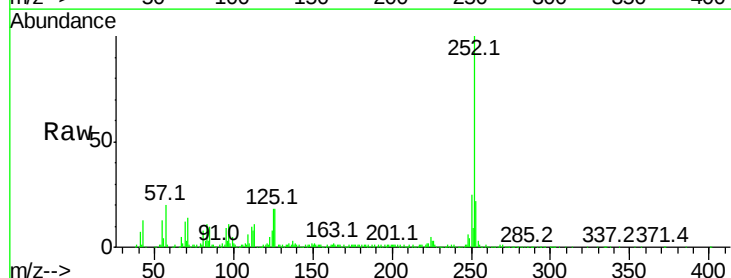
Manual Integrations
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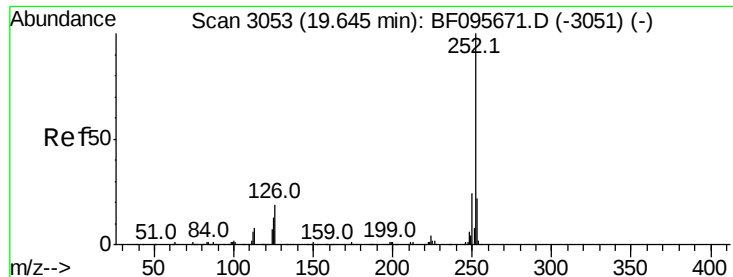
mohammad
6/22/2017 5:34:28 PM



#87
Benzo(b)fluoranthene
Concen: 53.28 ng m
RT: 19.55 min Scan# 3071
Delta R.T. 0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.1	27.1
125	18.1	9.8	14.8





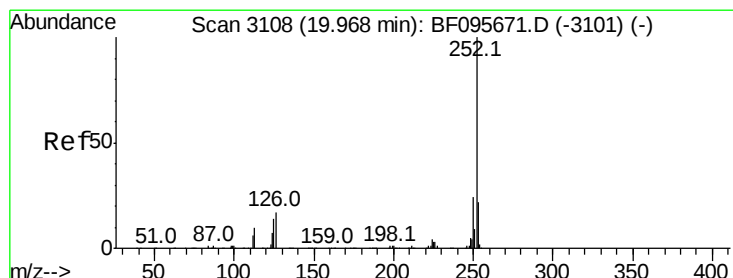
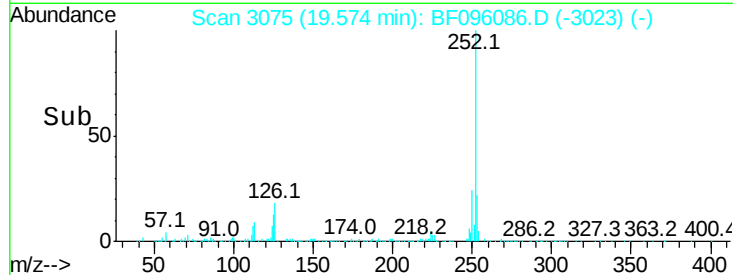
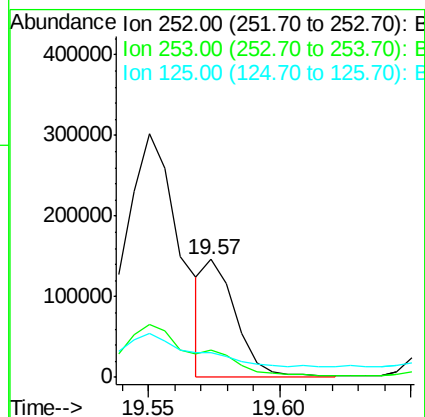
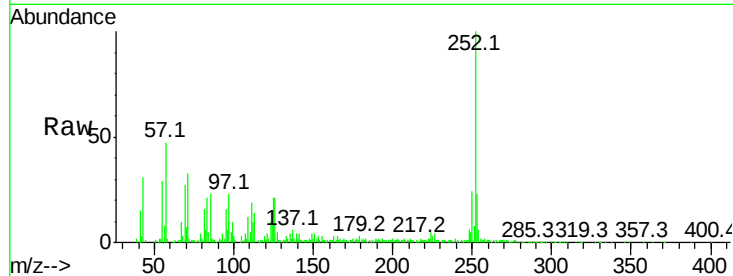
#88
Benzo(k)fluoranthene
Concen: 15.62 ng m
RT: 19.57 min Scan# 3075
Delta R.T. 0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	20.9	13.1	19.7

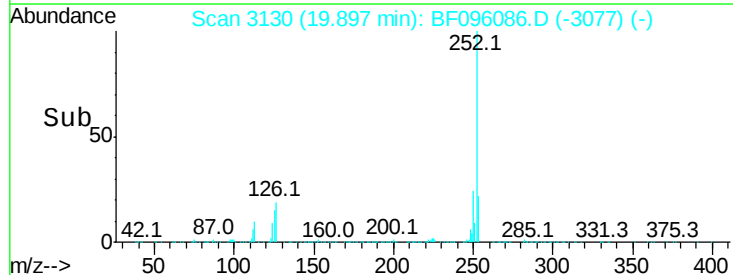
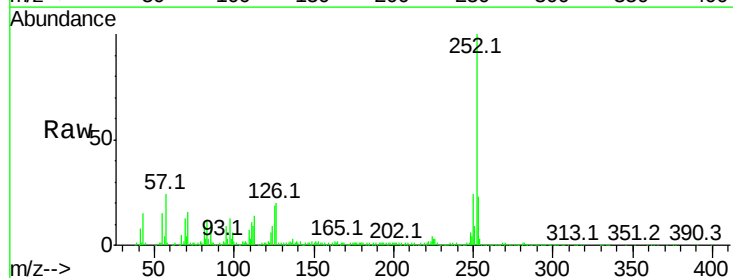
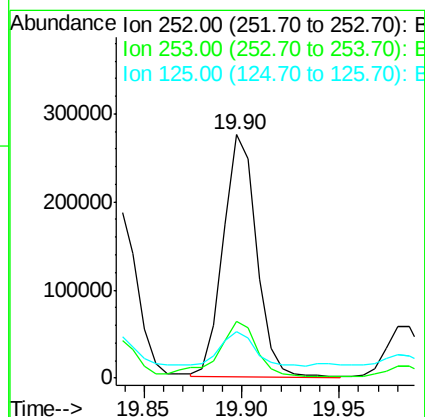
Manual Integrations
APPROVED

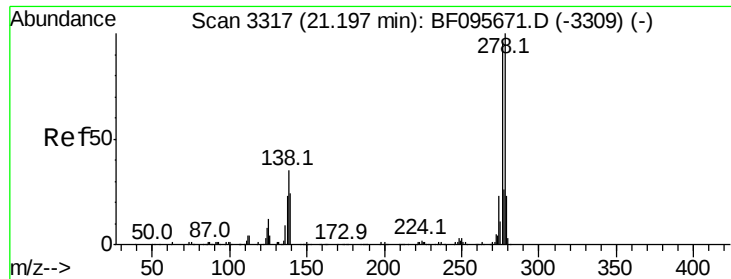
mohammad
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#89
Benzo(a)pyrene
Concen: 42.72 ng
RT: 19.90 min Scan# 3130
Delta R.T. 0.01 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	19.2	11.0	16.4





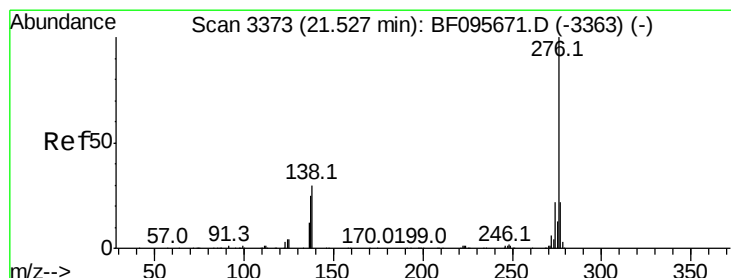
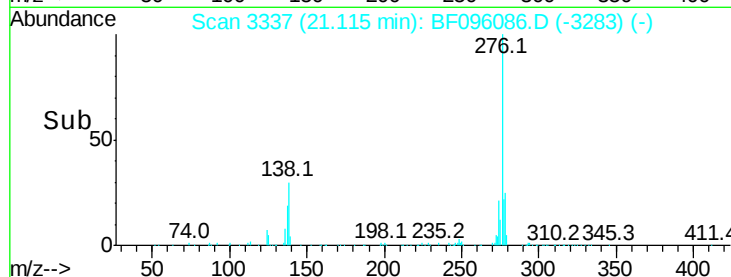
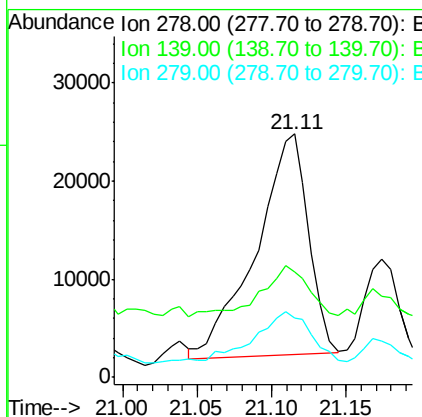
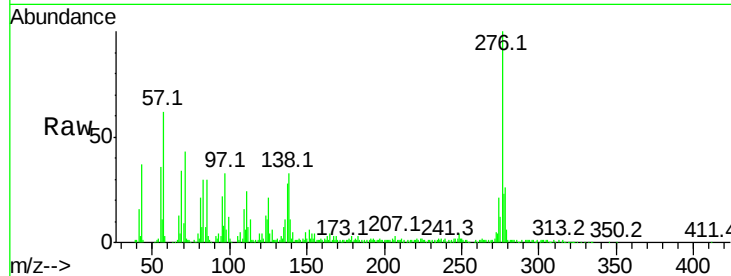
#90
Dibenzo(a,h)anthracene
Concen: 8.52 ng
RT: 21.11 min Scan# 3337
Delta R.T. 0.02 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Instrument :
BNA_F
ClientSampleId :
TK4-DUP-20170619

Tot Ion	Ratio	Lower	Upper
278	100		
139	43.4	16.6	24.8#
279	24.4	19.3	28.9

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 24.05 ng
RT: 21.44 min Scan# 3393
Delta R.T. 0.02 min
Lab File: BF096086.D
Acq: 21 Jun 2017 16:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.5	18.6	28.0
138	31.4	25.4	38.0

