

Data File : BF094666.D
Acq On : 27 Apr 2017 14:38
Operator : SJ/MA
Sample : I2821-05DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HY-SB426ADL

Manual Integrations
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mohammad
4/28/2017 3:00:35 PM

Quant Time: Apr 28 04:13:39 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF041717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 17 14:59:23 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	112011	20.00	ng	0.00
21) Naphthalene-d8	7.26	136	457528	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	212648	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	363716	20.00	ng	0.00
75) Chrysene-d12	14.47	240	258816	20.00	ng	0.00
86) Perylene-d12	16.10	264	220913	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	133695	19.80	ng	0.02
7) Phenol-d6	5.38	99	165996	20.86	ng	0.00
23) Nitrobenzene-d5	6.41	82	98933	13.35	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	32150	19.33	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	201637	13.95	ng	0.00
78) Terphenyl-d14	13.19	244	158001	16.32	ng	0.00

Target Compounds						Qvalue
51) Acenaphthene	9.44	154	275877	21.39	ng	99
54) Dibenzofuran	9.65	168	270719	14.44	ng	98
57) Fluorene	10.07	166	292866	20.06	ng	99
70) Phenanthrene	11.25	178	707347	34.54	ng	97
71) Anthracene	11.31	178	376226	17.76	ng	99
74) Fluoranthene	12.71	202	644243	30.35	ng	100
77) Pyrene	12.99	202	609235	33.69	ng	99
80) Benzo(a)anthracene	14.46	228	186879	12.42	ng	98
82) Chrysene	14.50	228	179864	13.08	ng	97
85) Indeno(1,2,3-cd)pyrene	17.38	276	89653	6.85	ng	94
87) Benzo(b)fluoranthene	15.70	252	170353m	12.61	ng	
88) Benzo(k)fluoranthene	15.72	252	59406m	4.65	ng	
89) Benzo(a)pyrene	16.04	252	152957	12.17	ng	98
90) Dibenzo(a,h)anthracene	17.39	278	25740	2.47	ng	# 86
91) Benzo(g,h,i)perylene	17.75	276	118161	11.12	ng	100

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

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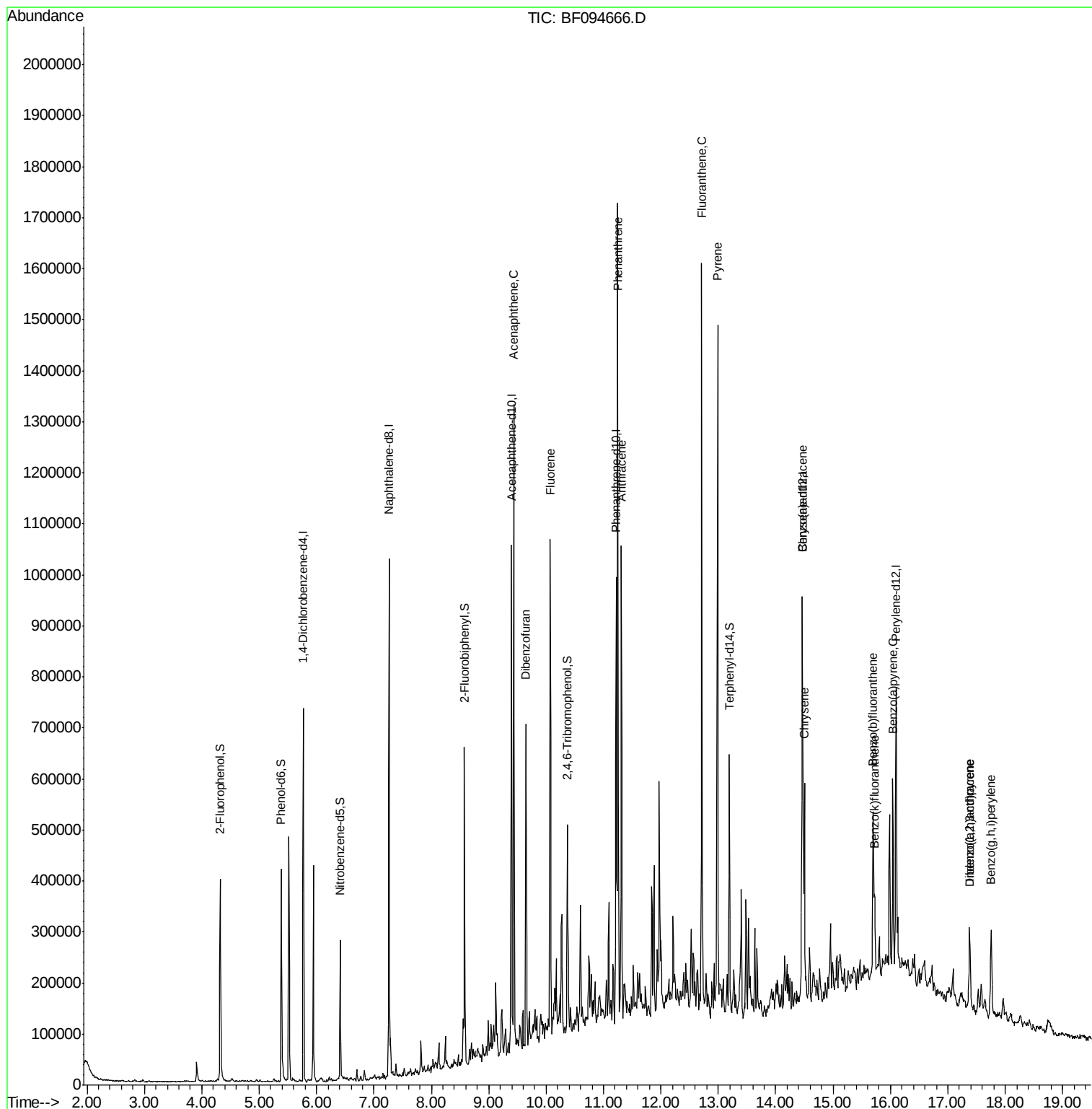
Quant Time: Apr 28 04:13:39 2017

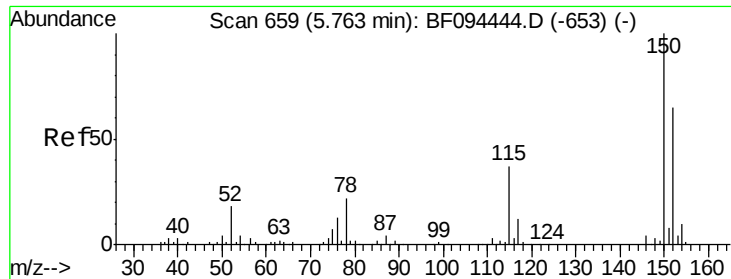
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF041717.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Apr 17 14:59:23 2017

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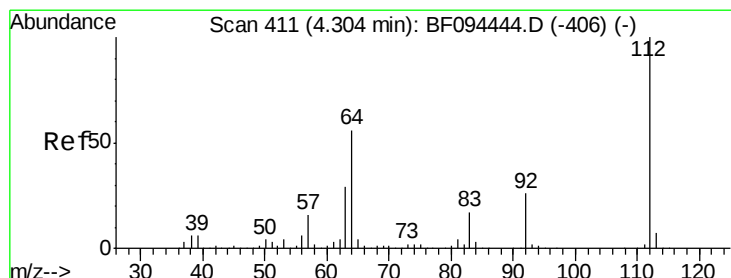
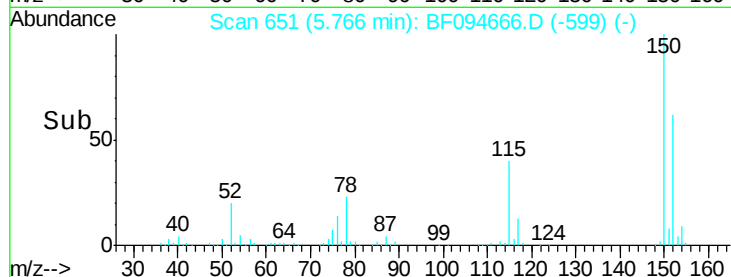
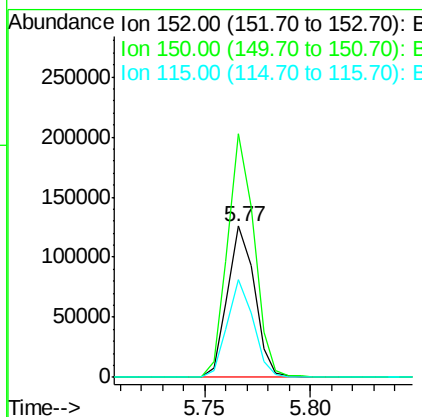
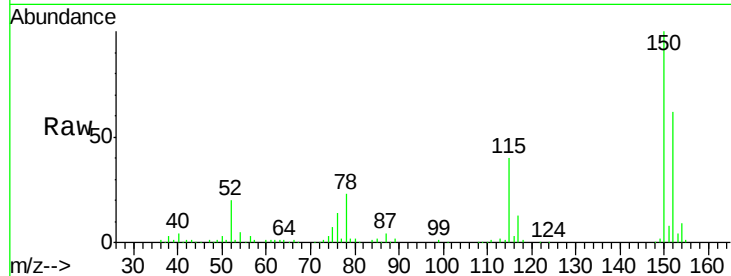
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.77 min Scan# 651
 Delta R.T. 0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB426ADL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.2	126.2	189.2
115	64.7	52.2	78.2

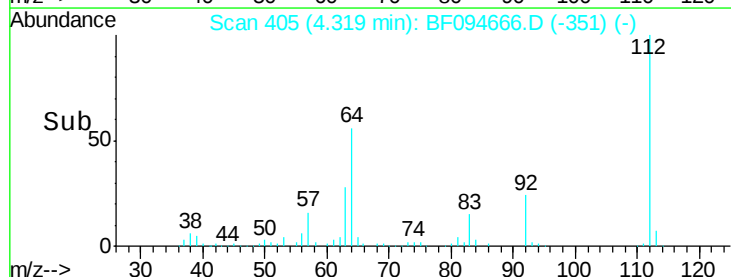
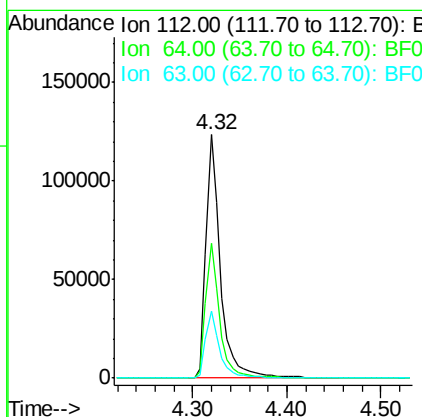
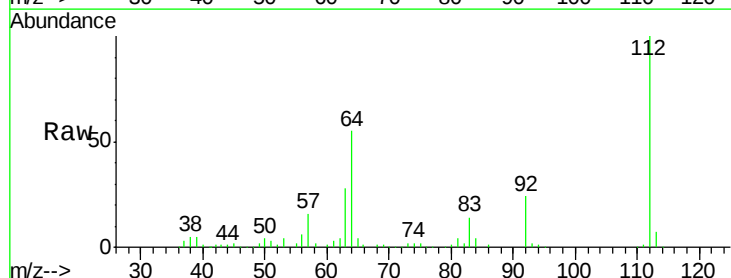
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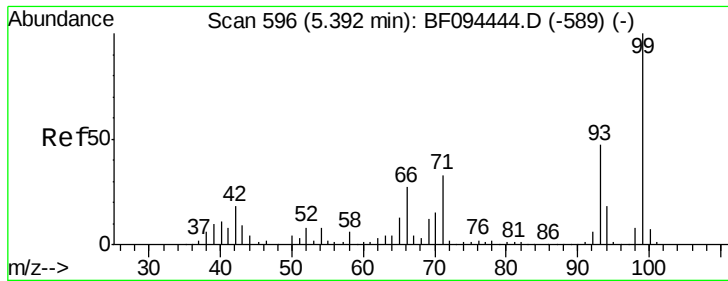
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#5
 2-Fluorophenol
 Concen: 19.80 ng
 RT: 4.32 min Scan# 405
 Delta R.T. 0.02 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	46.0	69.0
63	27.6	23.4	35.0





#7

Phenol-d6

Concen: 20.86 ng

RT: 5.38 min Scan# 586

Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

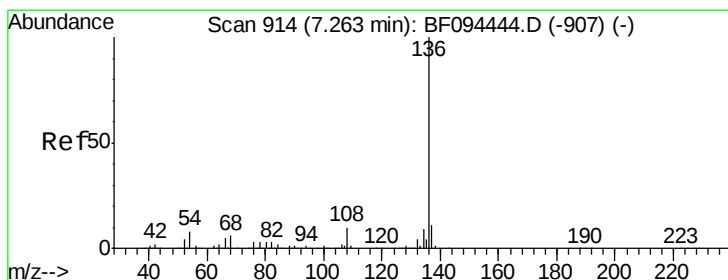
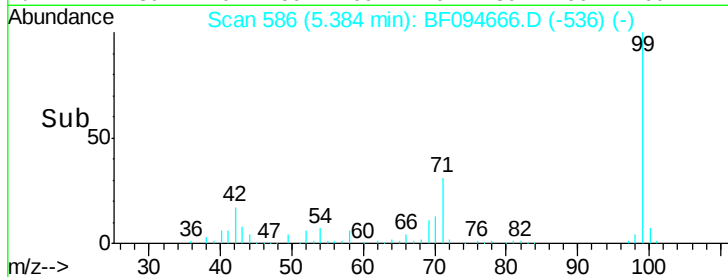
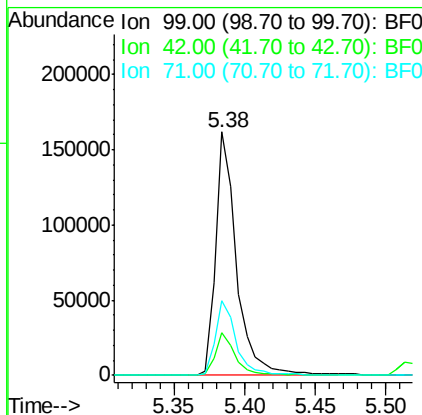
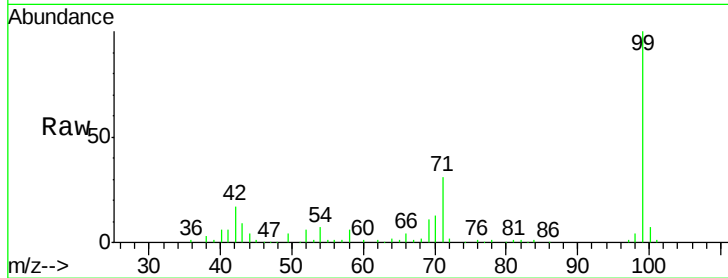
ClientSampleId :

HY-SB426ADL

Tgt Ion:	99	Resp:	165996
Ion	Ratio	Lower	Upper
99	100		
42	17.3	13.5	20.3
71	30.6	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

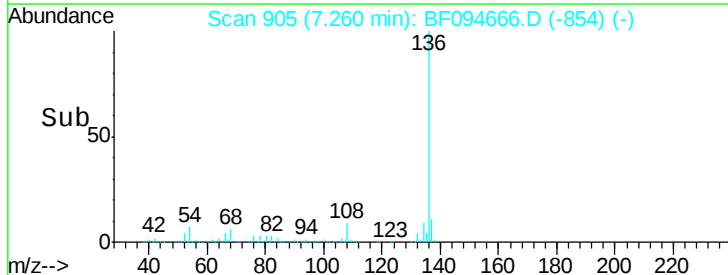
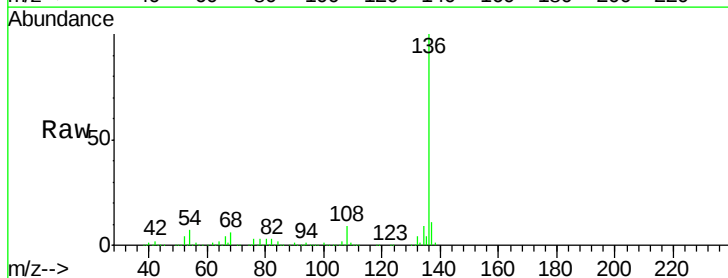
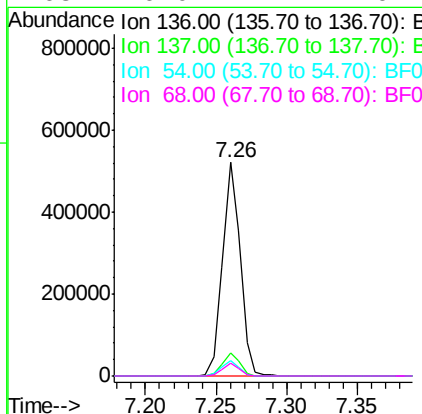
RT: 7.26 min Scan# 905

Delta R.T. -0.00 min

Lab File: BF094666.D

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Tgt Ion:	136	Resp:	457528
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	7.1	4.9	7.3
68	6.0	4.1	6.1





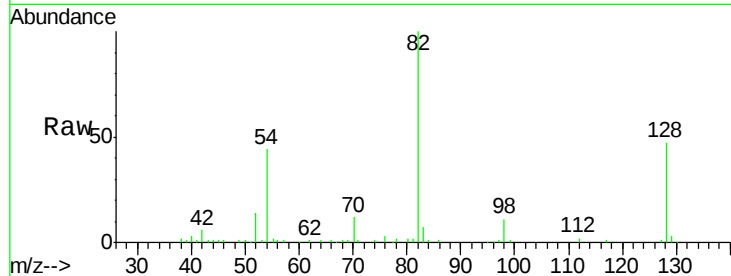
#23
 Nitrobenzene-d5
 Concen: 13.35 ng
 RT: 6.41 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB426ADL

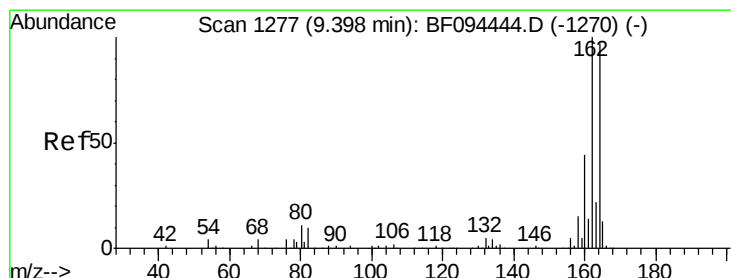
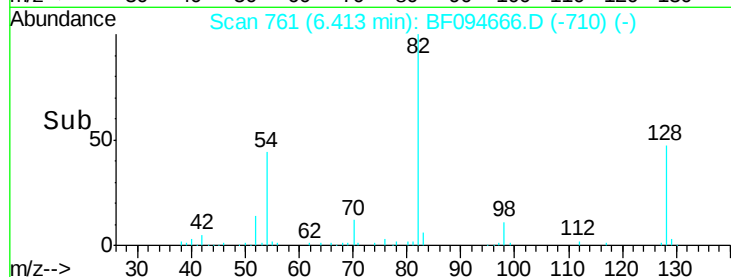
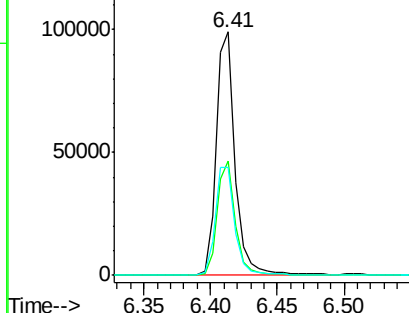
Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.9	34.0	51.0
54	44.2	42.2	63.2

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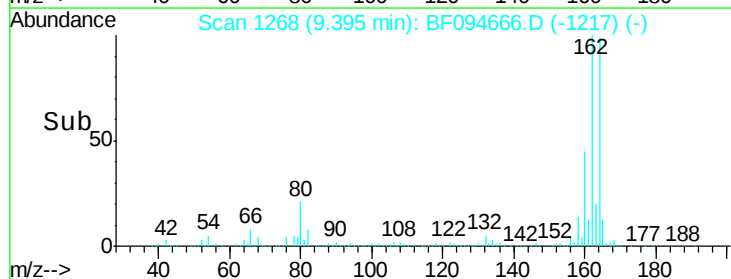
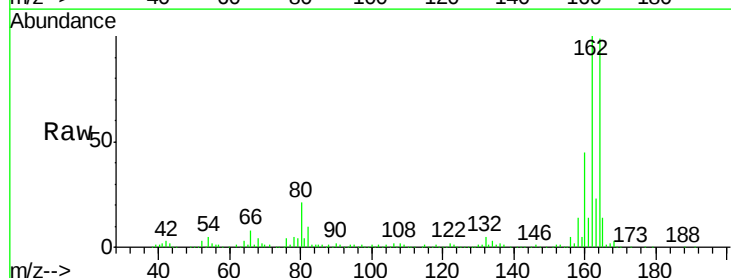
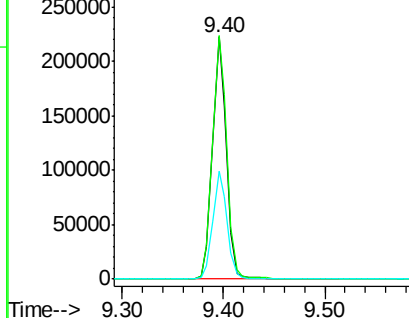
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 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

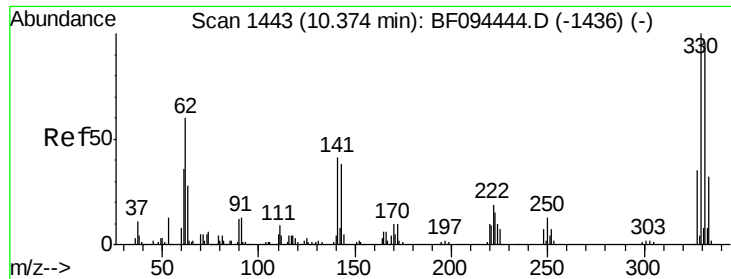


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.40 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.7	82.6	123.8
160	44.8	36.2	54.2

Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 19.33 ng

RT: 10.37 min Scan# 1434

Delta R.T. -0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

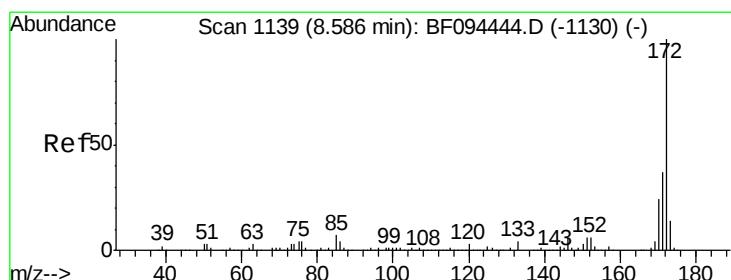
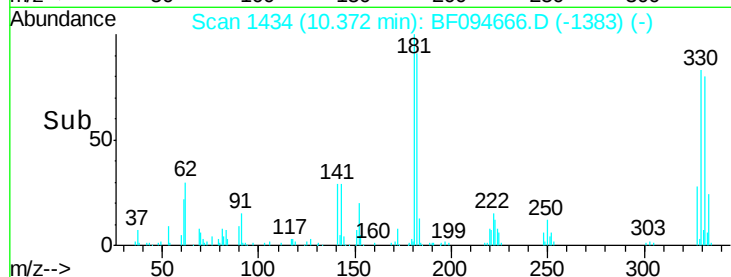
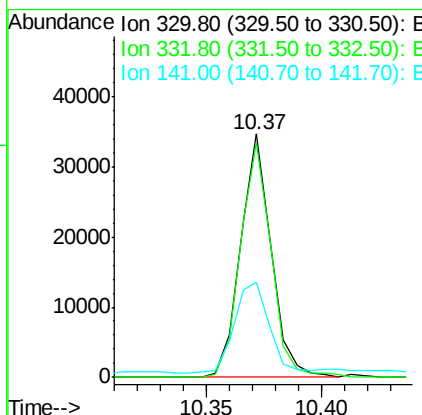
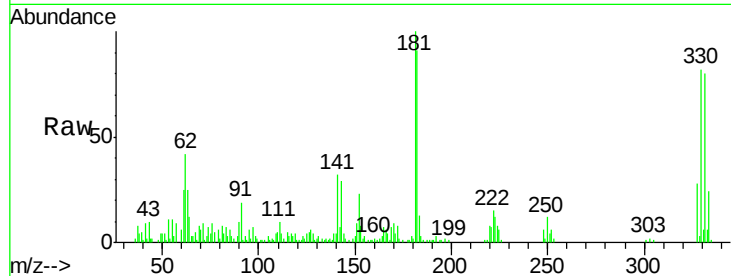
ClientSampleId :

HY-SB426ADL

Tgt Ion:	330	Resp:	32150
Ion Ratio	Lower	Upper	
330	100		
332	96.6	76.6	115.0
141	42.6	31.4	47.2

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#44

2-Fluorobiphenyl

Concen: 13.95 ng

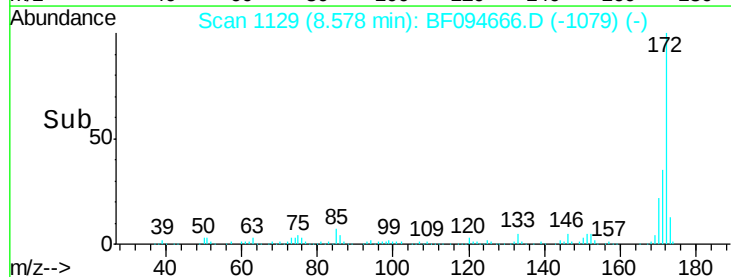
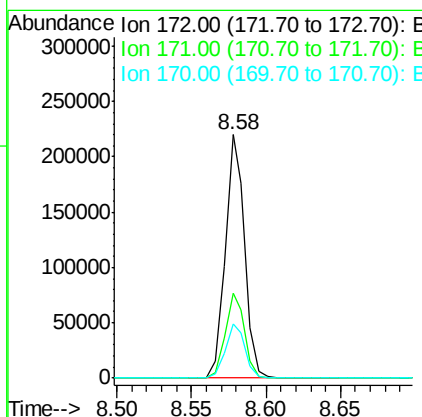
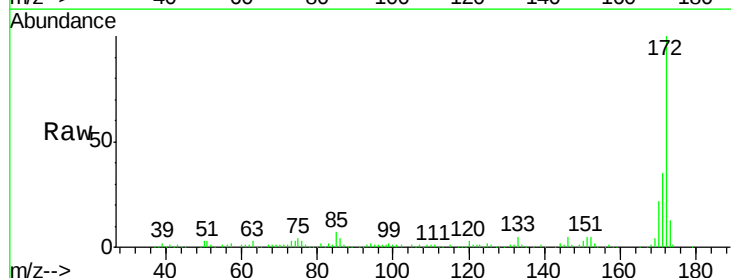
RT: 8.58 min Scan# 1129

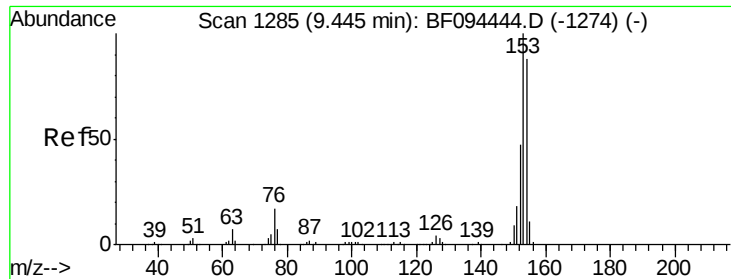
Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Tgt Ion:	172	Resp:	201637
Ion Ratio	Lower	Upper	
172	100		
171	35.0	29.6	44.4
170	22.4	19.8	29.8





#51

Acenaphthene

Concen: 21.39 ng

RT: 9.44 min Scan# 1275

Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

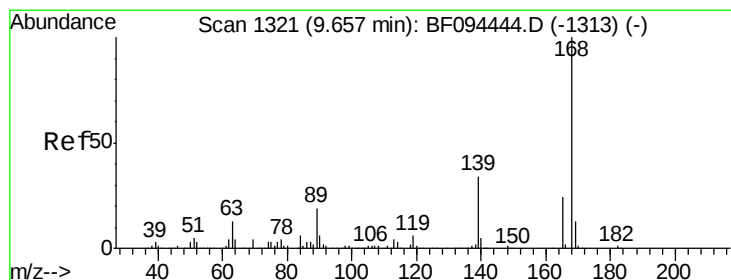
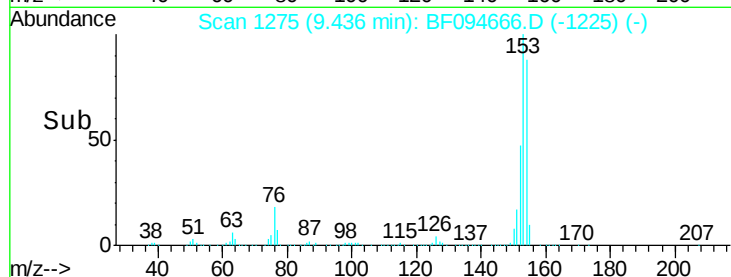
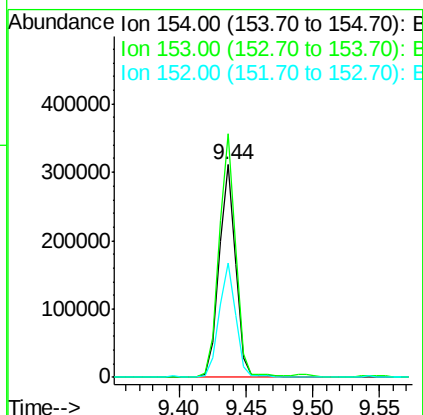
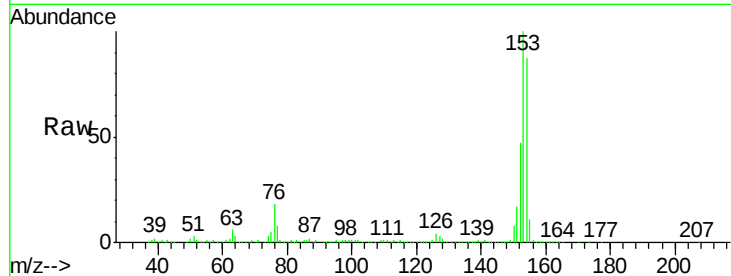
ClientSampleId :

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Tgt Ion:	154	Resp:	275877
Ion Ratio	Lower	Upper	
154	100		
153	114.4	90.5	135.7
152	53.7	43.6	65.4

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#54

Dibenzofuran

Concen: 14.44 ng

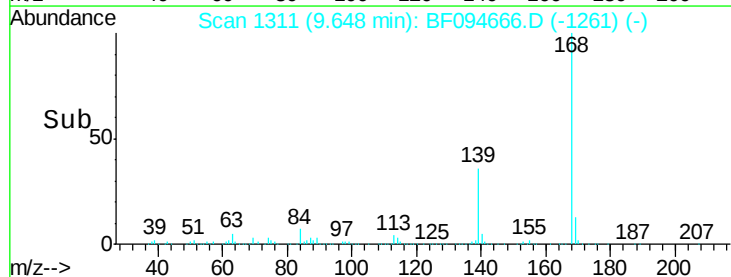
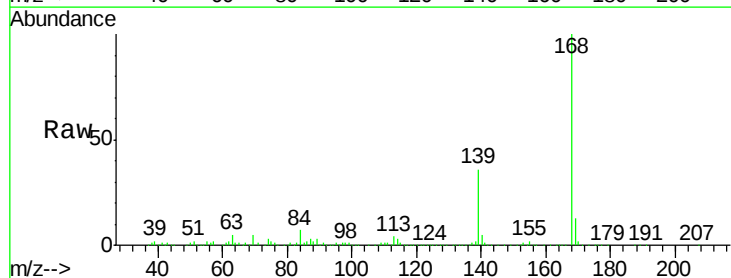
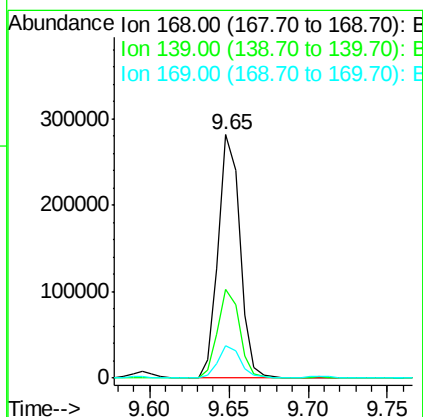
RT: 9.65 min Scan# 1311

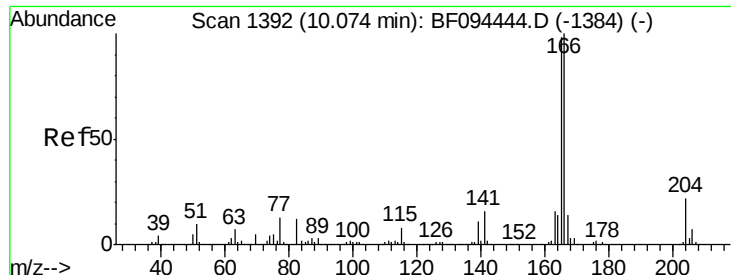
Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Tgt Ion:	168	Resp:	270719
Ion Ratio	Lower	Upper	
168	100		
139	36.4	30.6	45.8
169	13.2	10.8	16.2





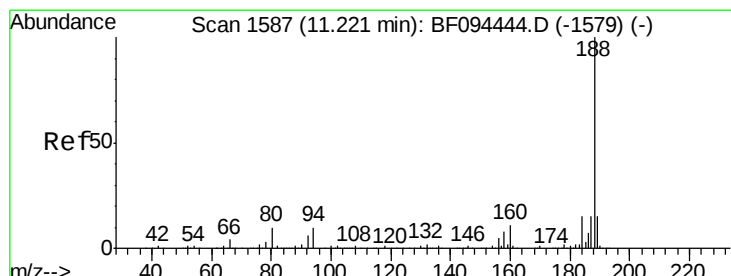
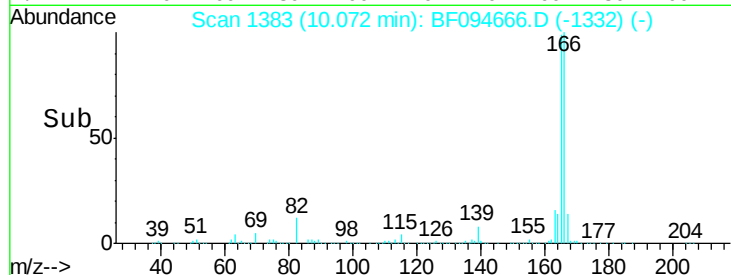
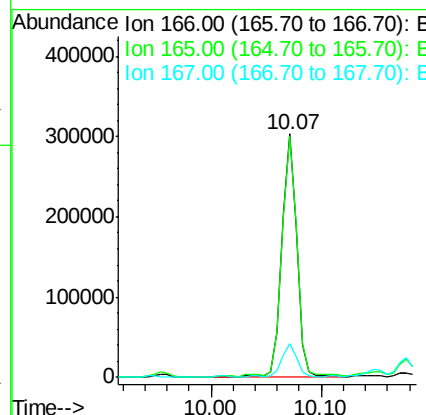
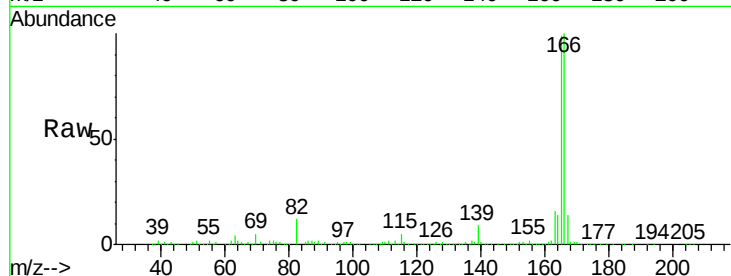
#57
Fluorene
 Concen: 20.06 ng
 RT: 10.07 min Scan# 1383
 Delta R.T. -0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

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Tgt Ion	Ratio	Resp	Lower	Upper
166	100	292866		
165	99.2	78.8	118.2	
167	13.7	10.6	16.0	

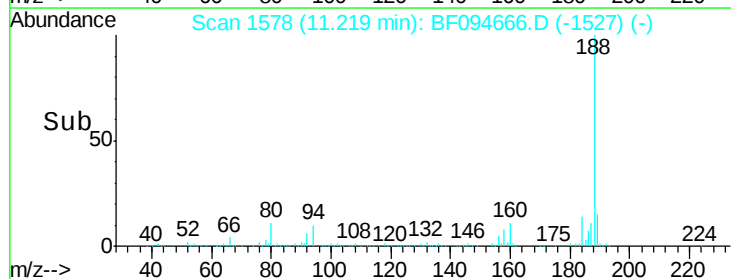
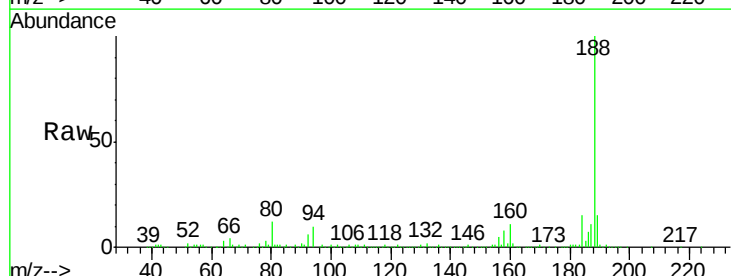
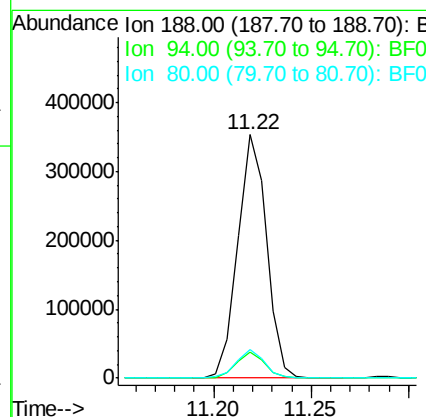
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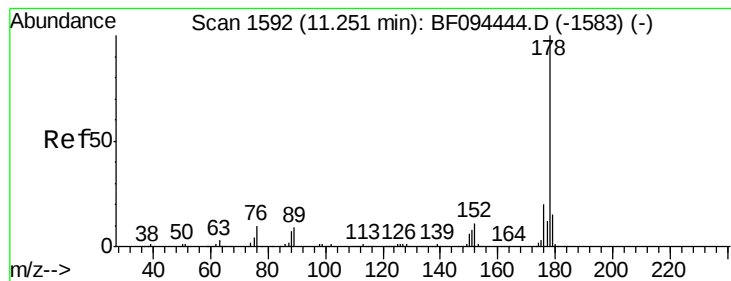
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.22 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	363716		
94	10.4	9.4	14.2	
80	11.5	10.2	15.2	





#70

Phenanthrene

Concen: 34.54 ng

RT: 11.25 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

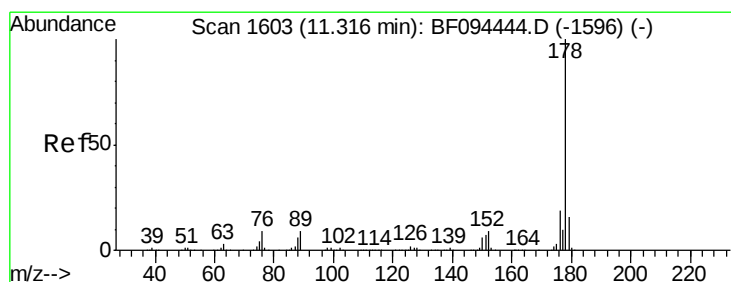
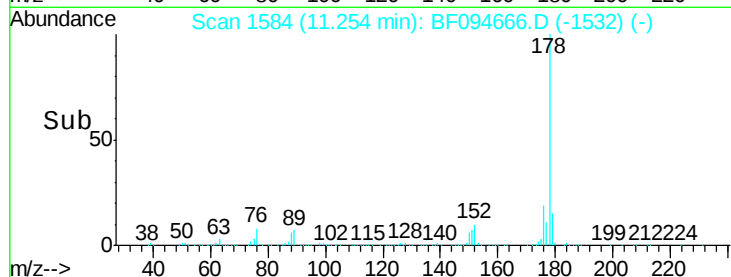
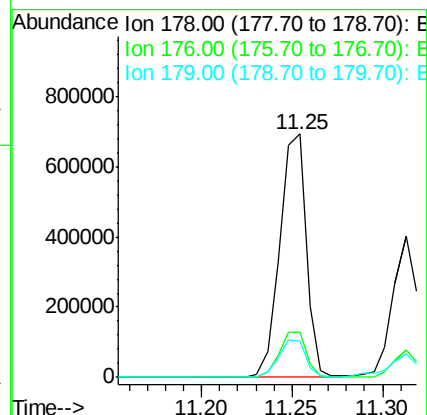
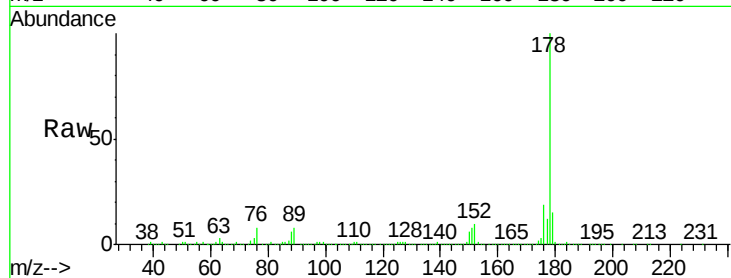
ClientSampleId :

HY-SB426ADL

Tgt Ion:	178	Resp:	707347
Ion Ratio	Lower	Upper	
178	100		
176	18.7	16.2	24.4
179	14.9	12.6	19.0

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#71

Anthracene

Concen: 17.76 ng

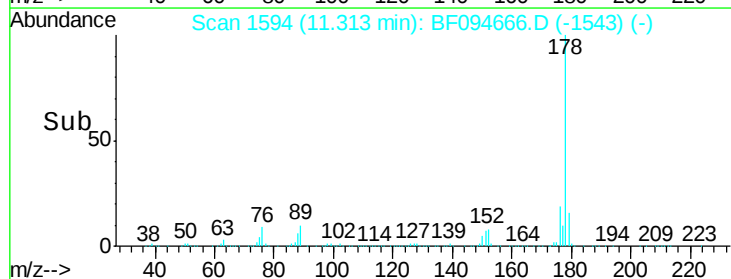
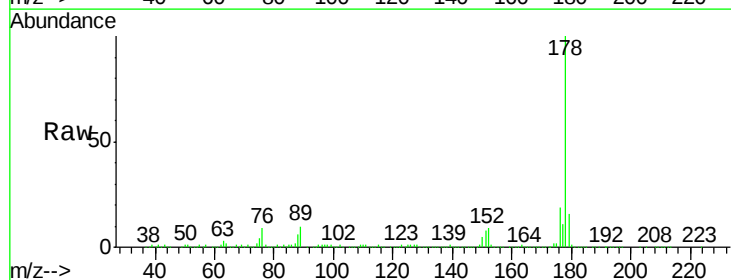
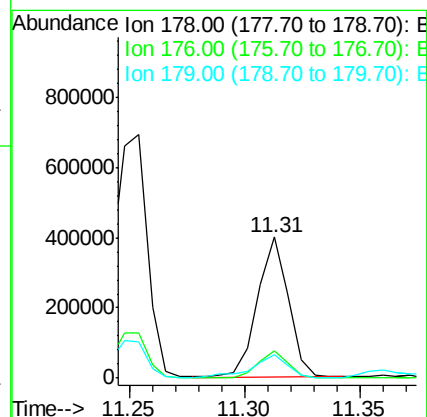
RT: 11.31 min Scan# 1594

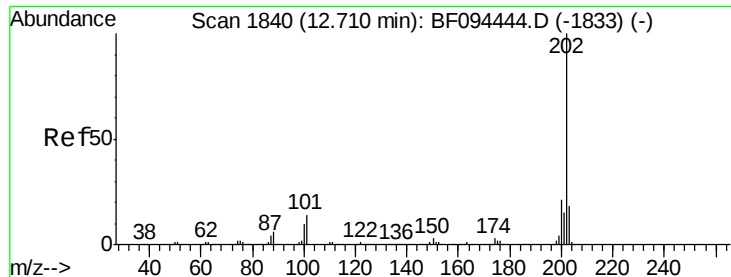
Delta R.T. -0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Tgt Ion:	178	Resp:	376226
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.8	23.8
179	16.5	12.7	19.1





#74

Fluoranthene

Concen: 30.35 ng

RT: 12.71 min Scan# 1832

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

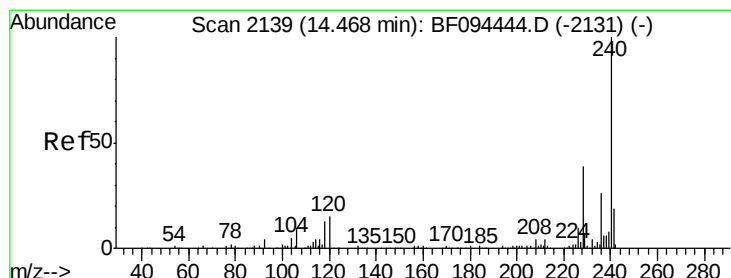
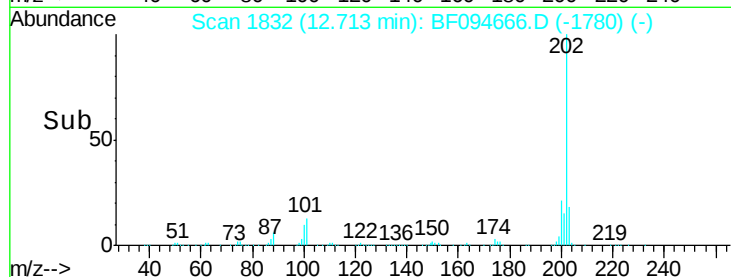
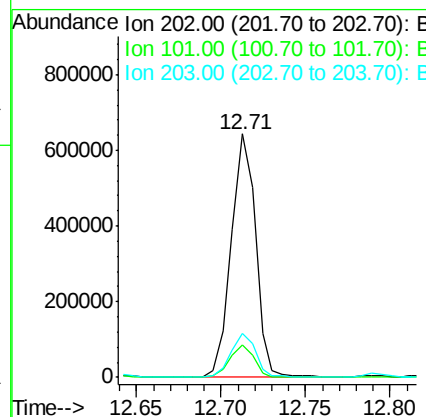
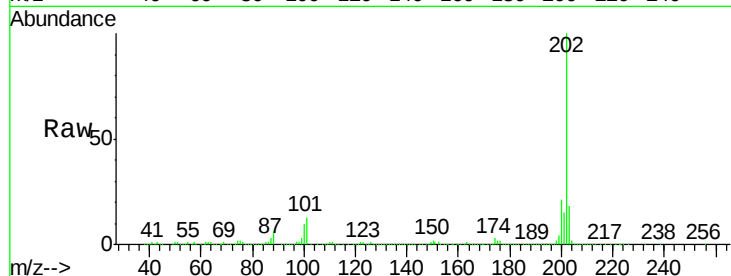
ClientSampleId :

HY-SB426ADL

Tgt	Ion	202	Resp:	644243
Ion	Ratio	Lower	Upper	
202	100			
101	13.3	0.0	33.2	
203	18.0	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.00 ng

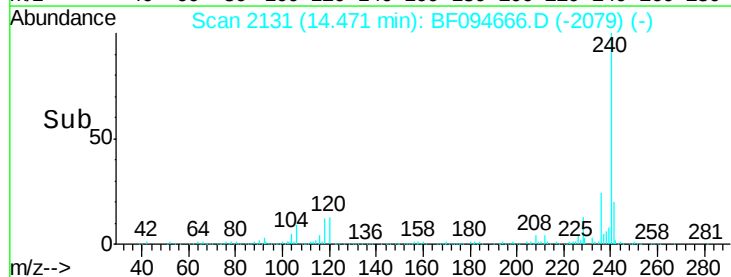
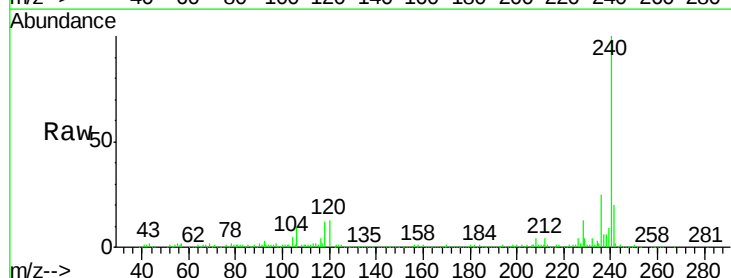
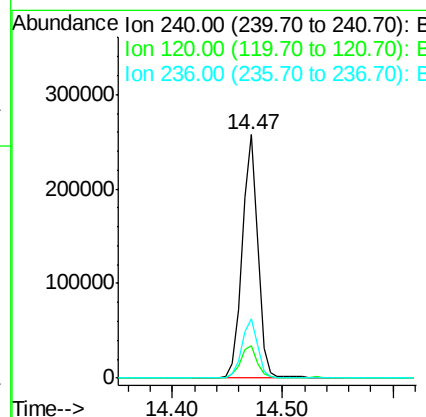
RT: 14.47 min Scan# 2131

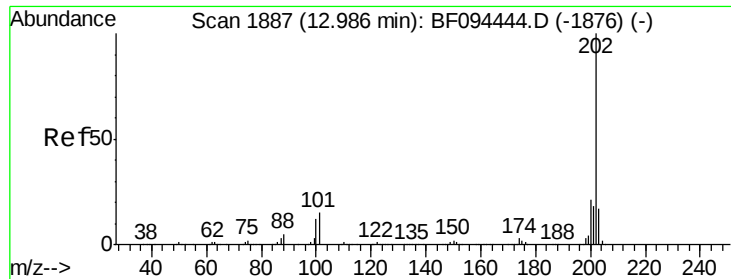
Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Tgt	Ion	240	Resp:	258816
Ion	Ratio	Lower	Upper	
240	100			
120	13.1	5.8	8.8#	
236	24.5	20.5	30.7	





#77

Pyrene

Concen: 33.69 ng

RT: 12.99 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

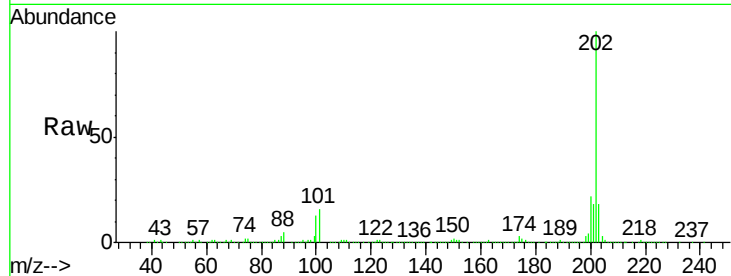
ClientSampleId :

HY-SB426ADL

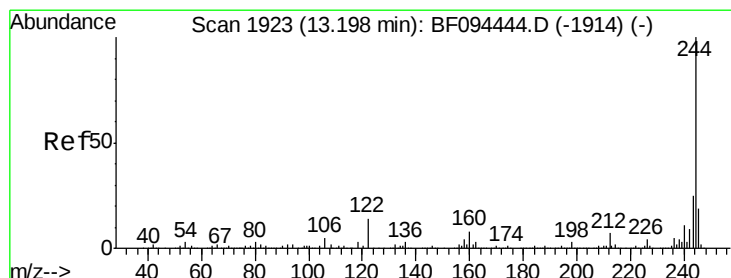
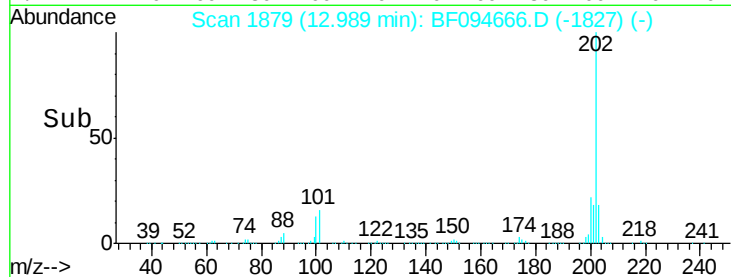
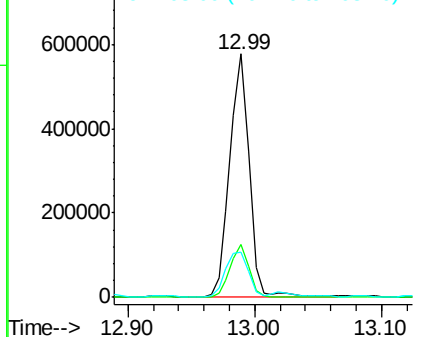
Tgt Ion:	202	Resp:	609235
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.6	26.4
203	18.4	14.4	21.6

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 16.32 ng

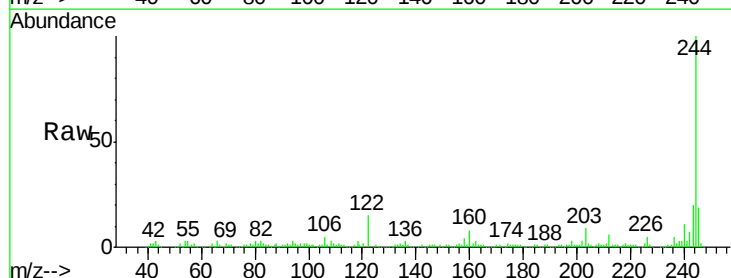
RT: 13.19 min Scan# 1913

Delta R.T. -0.01 min

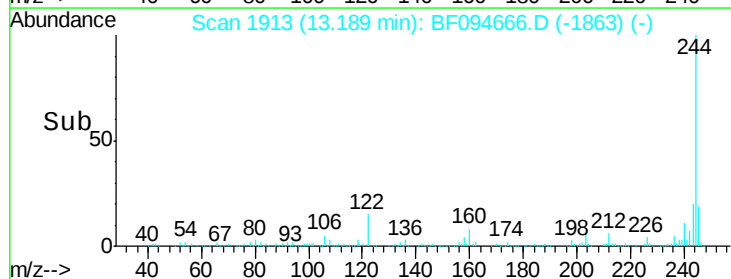
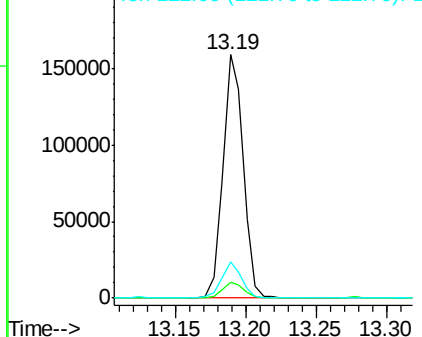
Lab File: BF094666.D

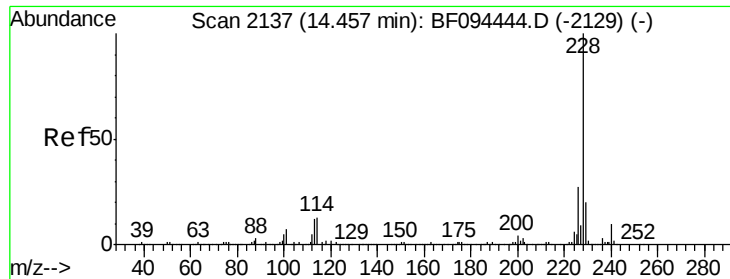
Acq: 27 Apr 2017 14:38

Tgt Ion:	244	Resp:	158001
Ion Ratio	Lower	Upper	
244	100		
212	6.4	6.0	9.0
122	15.0	10.3	15.5



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





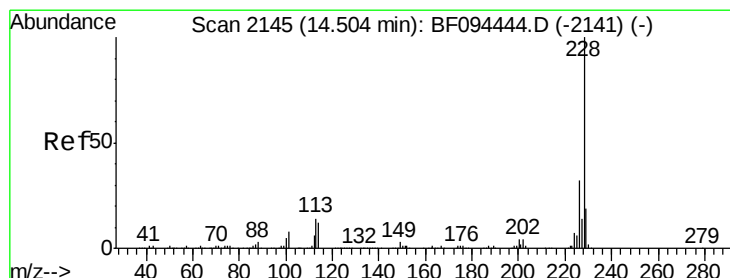
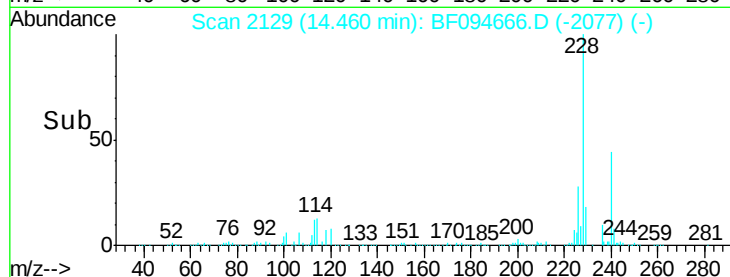
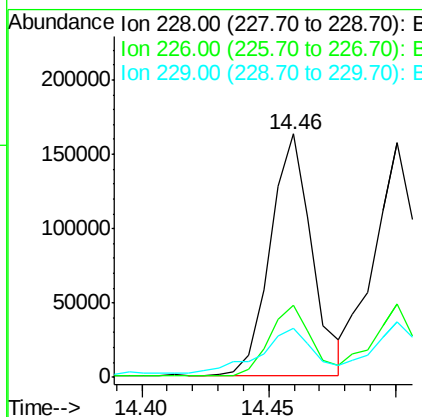
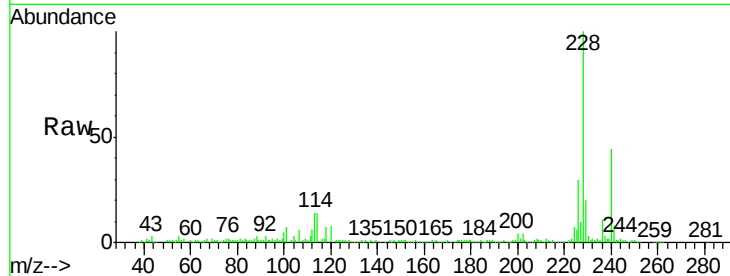
#80
Benzo(a)anthracene
Concen: 12.42 ng
RT: 14.46 min Scan# 2129
Delta R.T. 0.00 min
Lab File: BF094666.D
Acq: 27 Apr 2017 14:38

Instrument :
BNA_F
ClientSampleId :
HY-SB426ADL

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	186879		
226	29.6	22.6	33.8	
229	20.3	16.3	24.5	

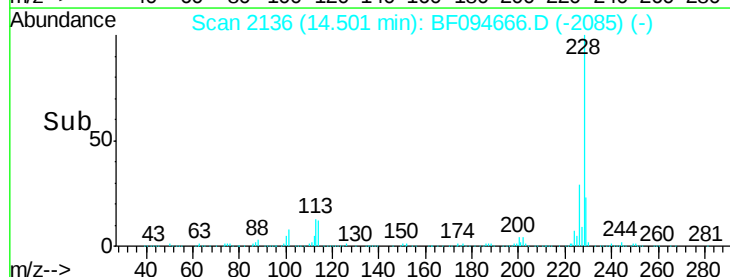
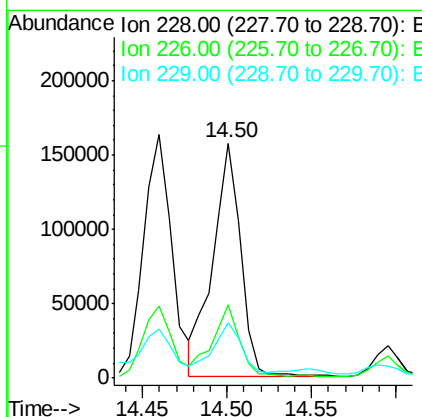
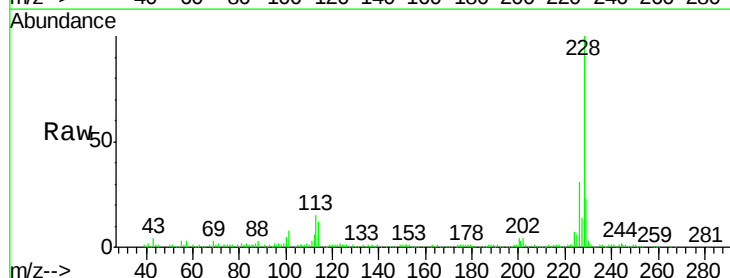
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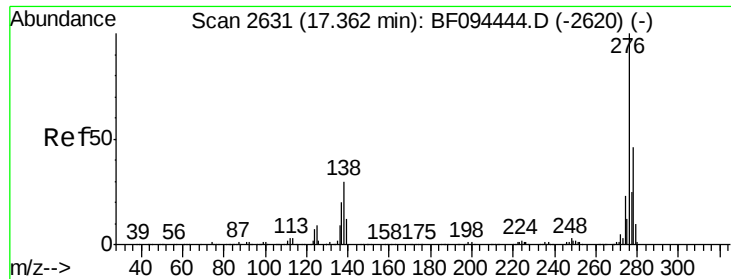
mohammad
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#82
Chrysene
Concen: 13.08 ng
RT: 14.50 min Scan# 2136
Delta R.T. -0.00 min
Lab File: BF094666.D
Acq: 27 Apr 2017 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	179864		
226	31.2	24.9	37.3	
229	23.4	15.8	23.6	





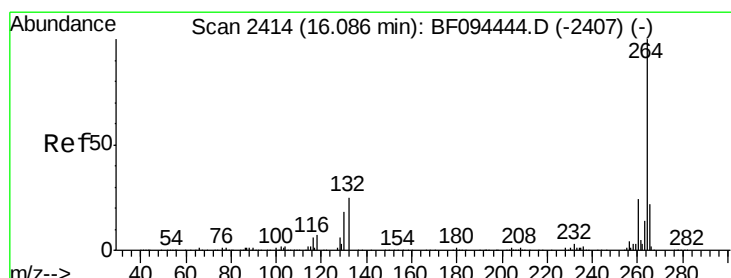
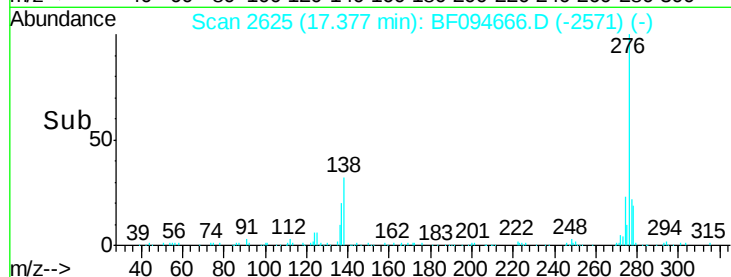
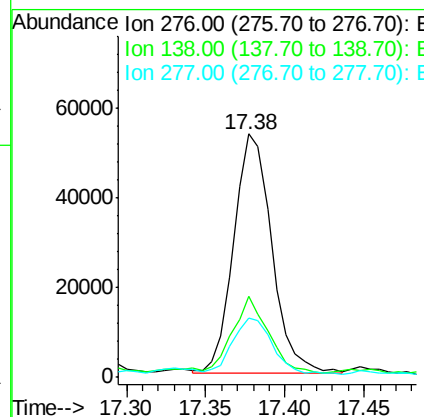
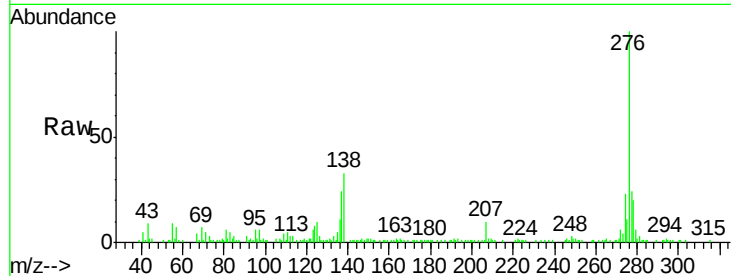
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.85 ng
 RT: 17.38 min Scan# 2625
 Delta R.T. 0.01 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB426ADL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.0	27.8	41.6
277	24.3	20.2	30.4

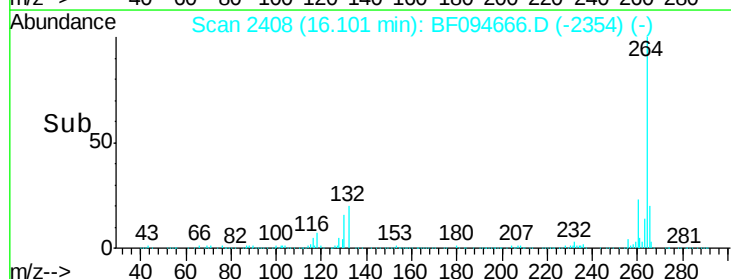
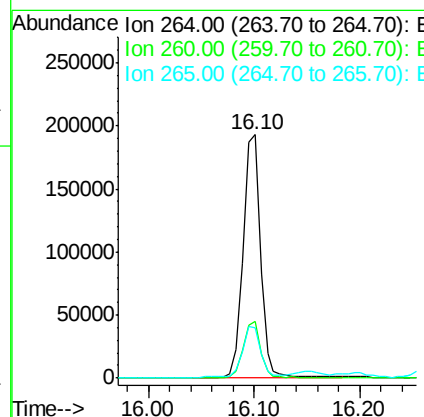
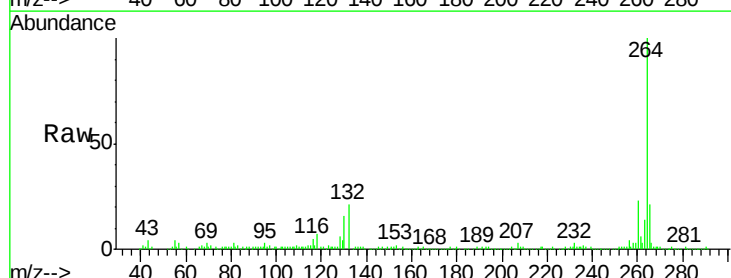
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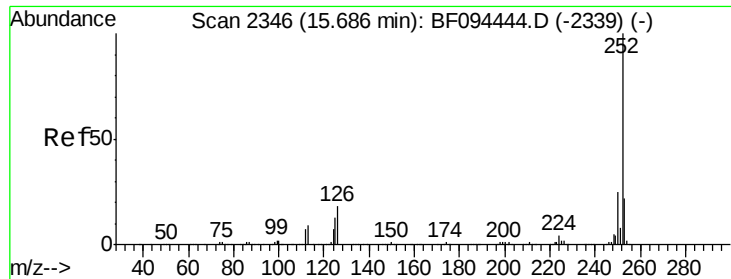
mohammad
 4/28/2017 3:00:35 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.10 min Scan# 2408
 Delta R.T. 0.01 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.5	29.3
265	20.7	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 12.61 ng m

RT: 15.70 min Scan# 2340

Delta R.T. 0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

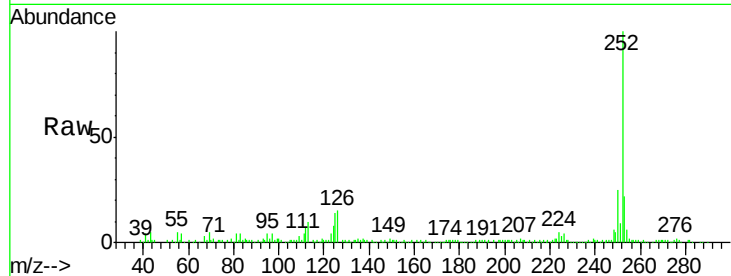
ClientSampleId :

HY-SB426ADL

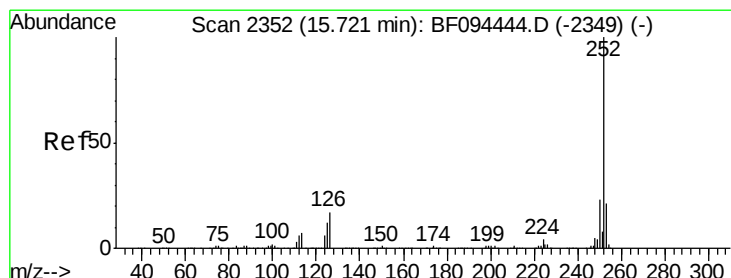
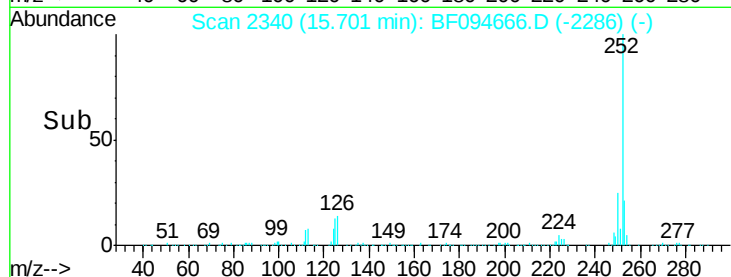
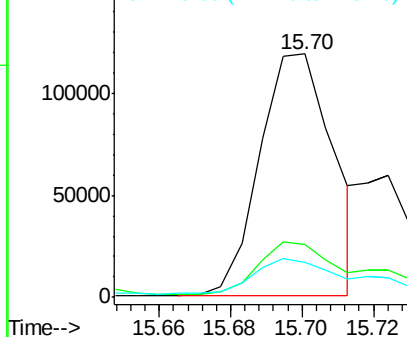
Tgt Ion:	252	Resp:	170353
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.1	27.1
125	14.2	9.8	14.8

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 4.65 ng m

RT: 15.72 min Scan# 2344

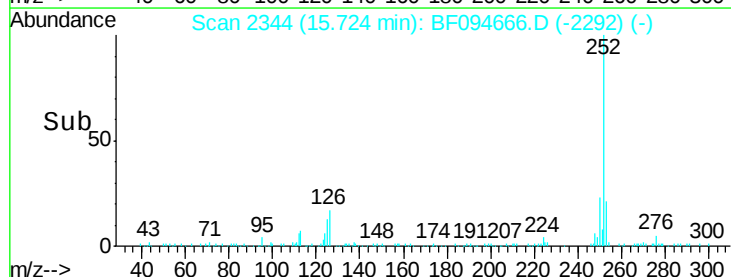
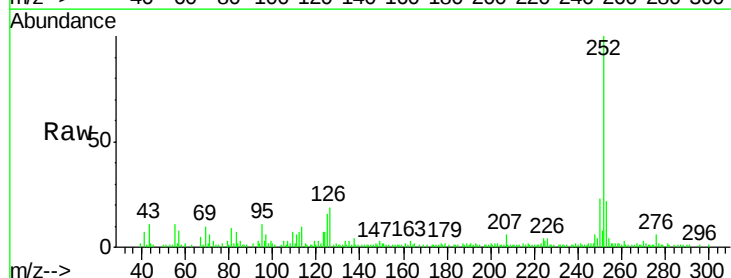
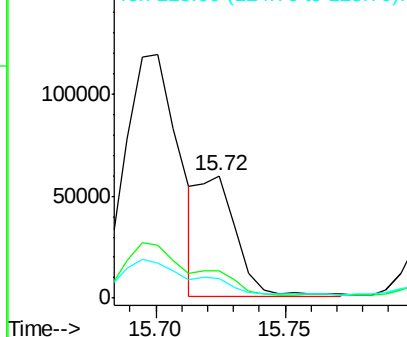
Delta R.T. 0.00 min

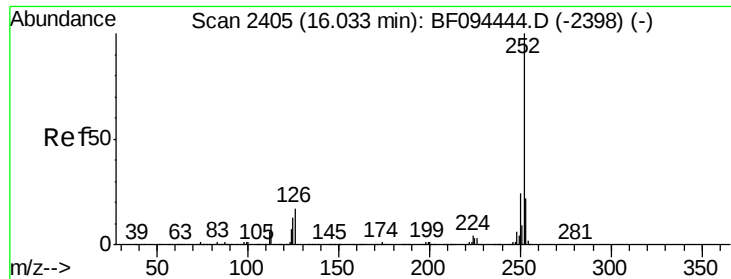
Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Tgt Ion:	252	Resp:	59406
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.4	27.6
125	16.1	13.1	19.7

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





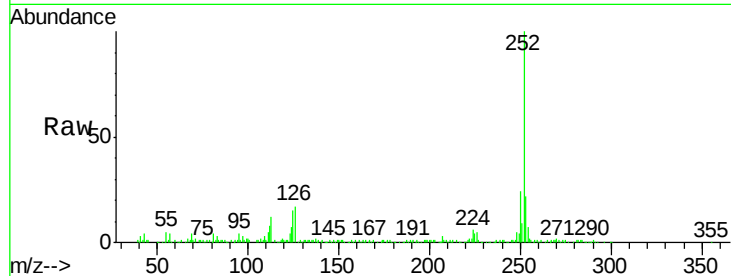
#89
Benzo(a)pyrene
Concen: 12.17 ng
RT: 16.04 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BF094666.D
Acq: 27 Apr 2017 14:38

Instrument :
BNA_F
ClientSampleId :
HY-SB426ADL

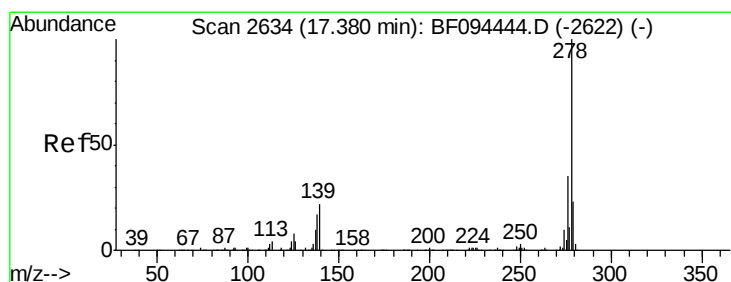
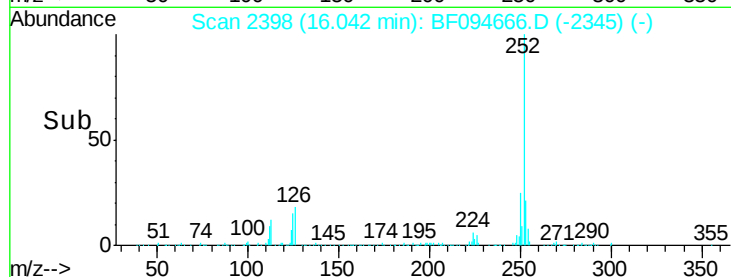
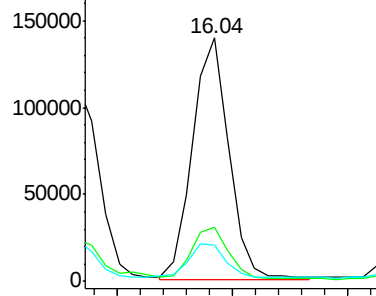
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	14.8	11.0	16.4

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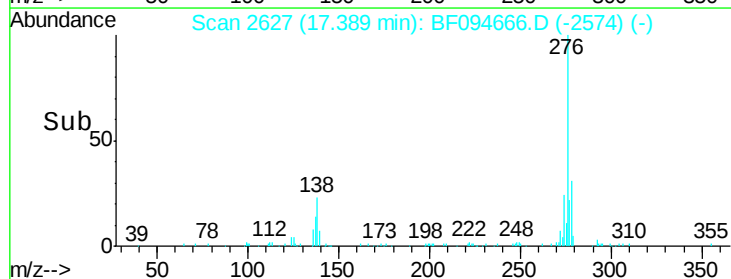
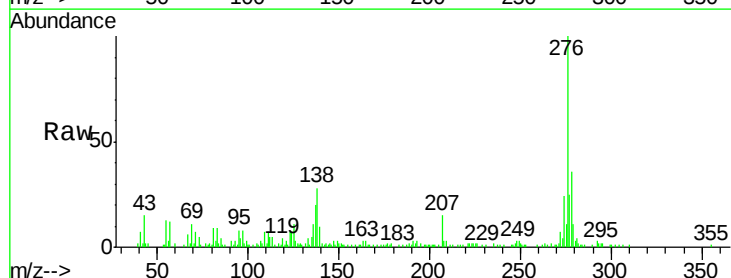
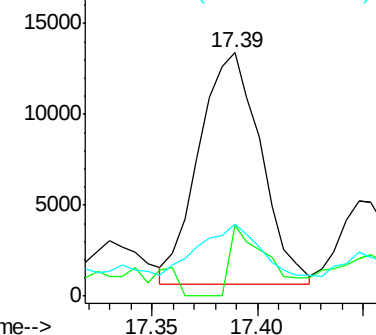
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

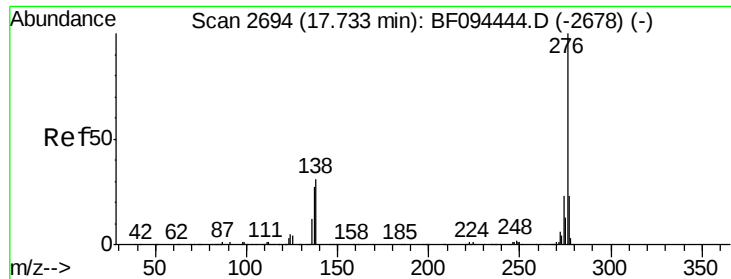


#90
Dibenzo(a,h)anthracene
Concen: 2.47 ng
RT: 17.39 min Scan# 2627
Delta R.T. 0.01 min
Lab File: BF094666.D
Acq: 27 Apr 2017 14:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.9	16.6	24.8#
279	29.6	19.3	28.9#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(g,h,i)perylene
 Concen: 11.12 ng
 RT: 17.75 min Scan# 2689
 Delta R.T. 0.02 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB426ADL

Tgt Ion:	276	Resp:	118161
Ion Ratio		Lower	Upper
276	100		
277	23.4	18.6	28.0
138	31.3	25.4	38.0

Manual Integrations
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