

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\
 Data File : BF098219.D
 Acq On : 1 Sep 2017 11:51
 Operator : SJ/JU
 Sample : I5024-10 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-082917-D

Manual Integrations
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Quant Time: Sep 01 13:18:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 01 12:59:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	121150	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	476112	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	198332	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	307051	20.00	ng	0.00
75) Chrysene-d12	13.87	240	228901	20.00	ng	0.00
86) Perylene-d12	15.29	264	244020	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	214830	26.97	ng	0.00
7) Phenol-d6	6.36	99	290237	26.82	ng	-0.01
23) Nitrobenzene-d5	7.28	82	173136	19.75	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	39152	22.75	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	280243	20.76	ng	0.00
78) Terphenyl-d14	12.82	244	158892	14.48	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.02	128	140396	5.680	ng	99
37) 2-Methylnaphthalene	8.72	142	50777	3.351	ng	96
48) Acenaphthylene	9.62	152	56262	2.681	ng	99
49) Dimethylphthalate	9.47	163	43982	3.034	ng	98
51) Acenaphthene	9.79	154	70395	5.319	ng	98
54) Dibenzofuran	9.96	168	121872	6.871	ng	98
57) Fluorene	10.30	166	180726	13.178	ng	98
70) Phenanthrene	11.26	178	963452	58.884	ng	99
71) Anthracene	11.31	178	253598	15.281	ng	99
72) Carbazole	11.47	167	145242	9.220	ng	96
74) Fluoranthene	12.45	202	843447	49.388	ng	98
77) Pvrene	12.67	202	686384	36.663	ng	98
80) Benzo(a)anthracene	13.86	228	350058	25.516	ng	98
82) Chrysene	13.90	228	306806	22.481	ng	98
85) Indeno(1,2,3-cd)pyrene	16.66	276	134624m	13.410	ng	
87) Benzo(b)fluoranthene	14.89	252	362015m	23.536	ng	
88) Benzo(k)fluoranthene	14.91	252	148044m	10.245	ng	
89) Benzo(a)pyrene	15.23	252	285157	20.942	ng	98
90) Dibenzo(a,h)anthracene	16.66	278	36891m	3.328	ng	
91) Benzo(a,h,i)perylene	17.07	276	116916	10.108	ng	# 91

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

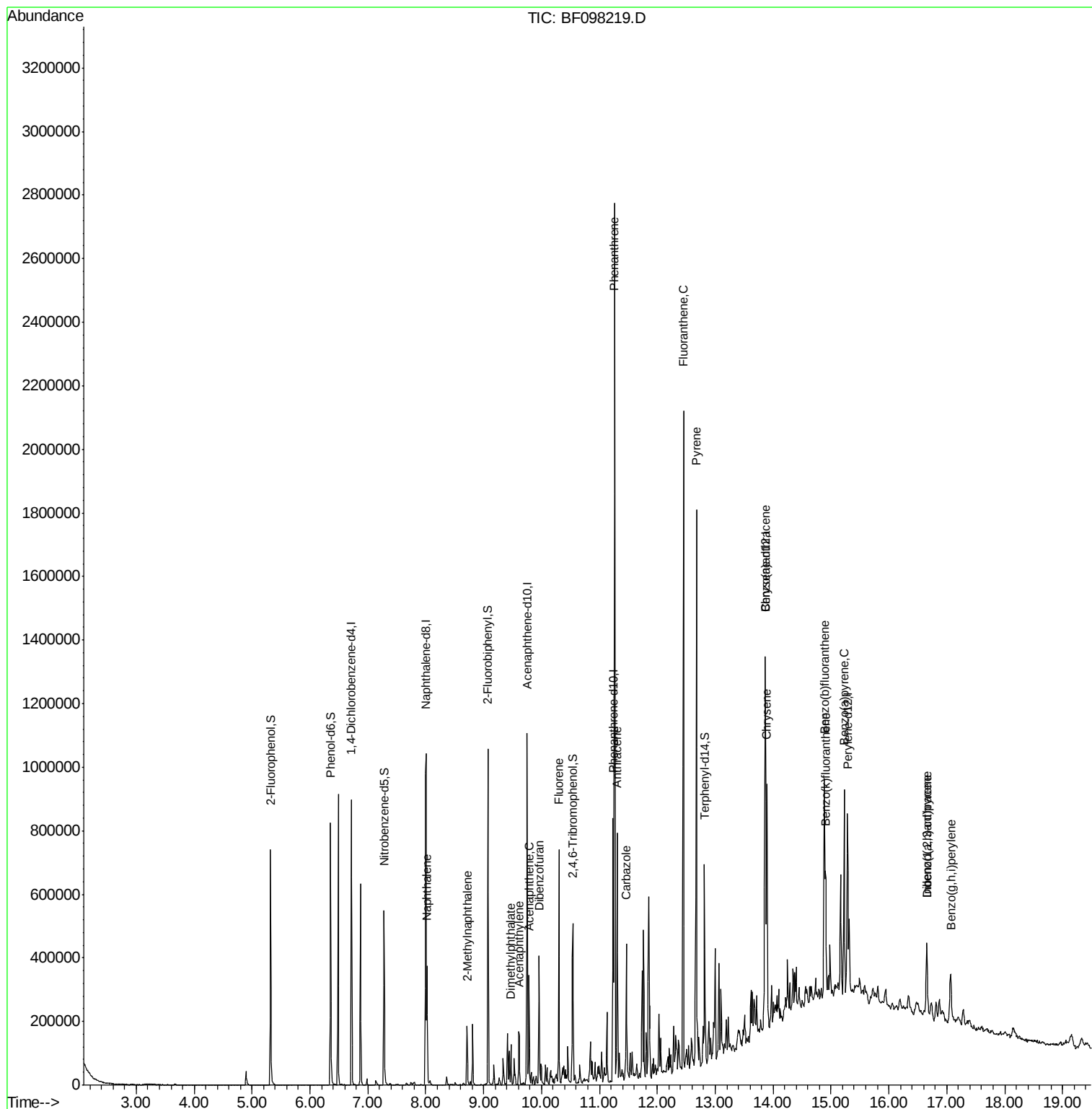
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090117\
Data File : BF098219.D
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ALS Vial : 7 Sample Multiplier: 1

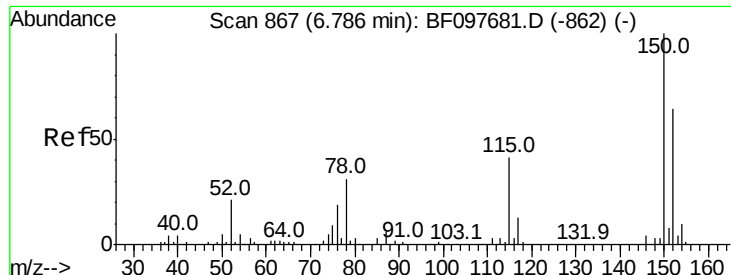
Instrument :
BNA_F
ClientSampleId :
CL-01-082917-D

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Quant Time: Sep 01 13:18:32 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 01 12:59:02 2017
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#1

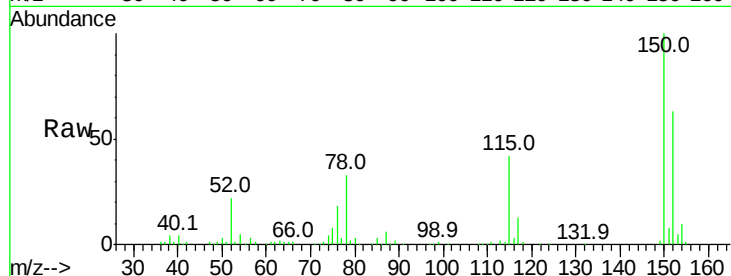
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	126.2	189.2
115	67.0	52.2	78.2

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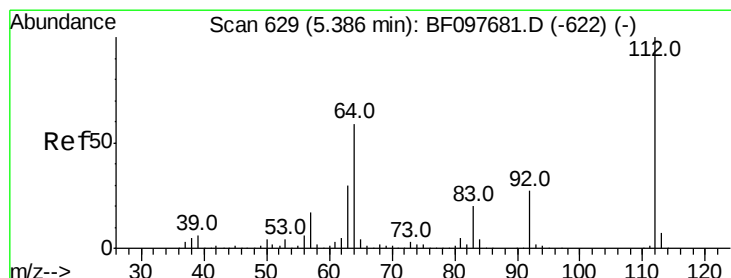
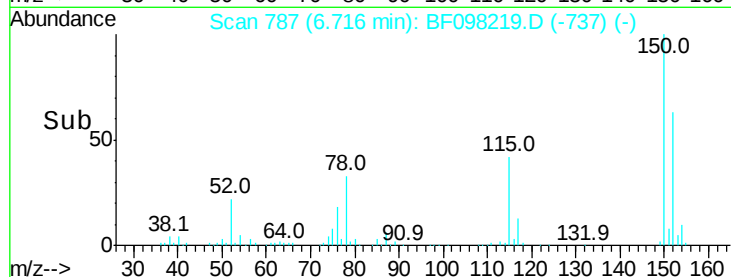
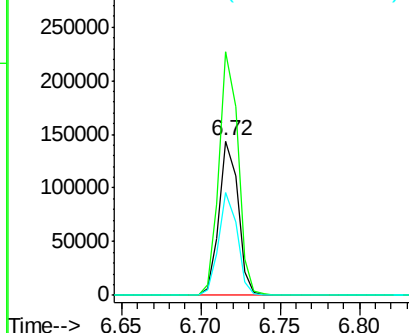


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

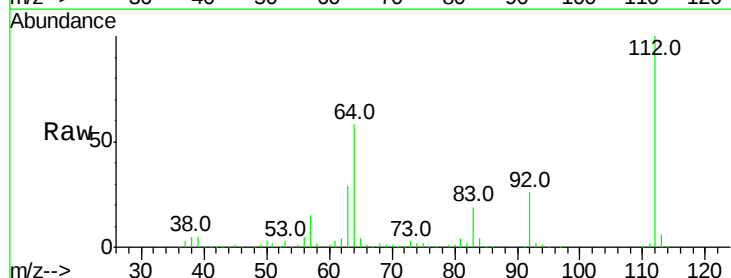
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 26.973 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	46.0	69.0
63	29.5	23.4	35.0

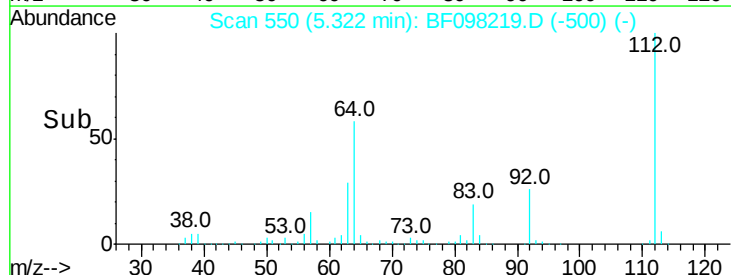
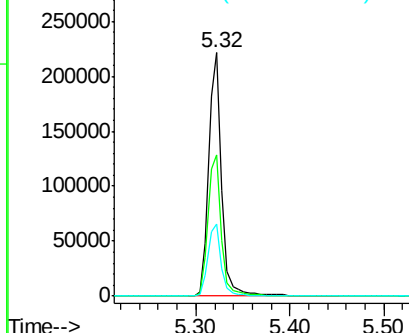


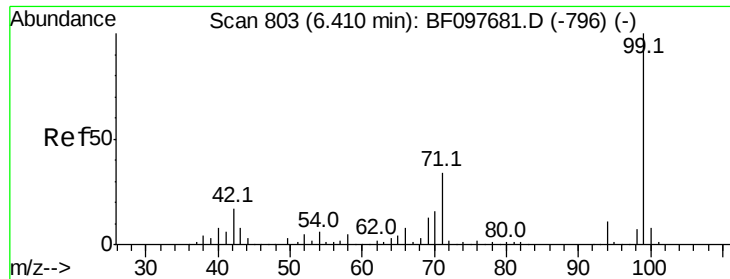
Abundance

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: 26.820 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

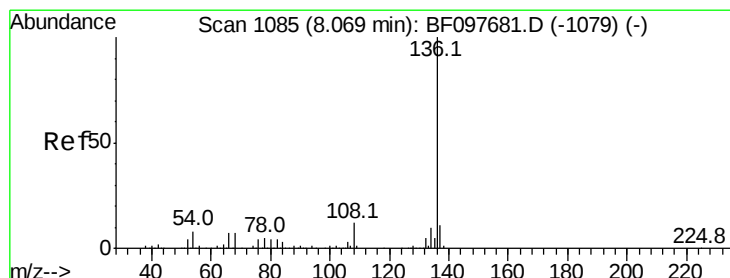
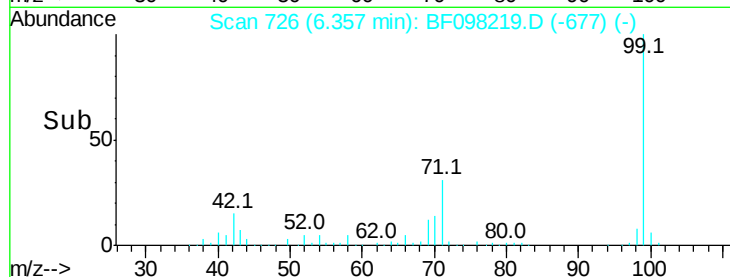
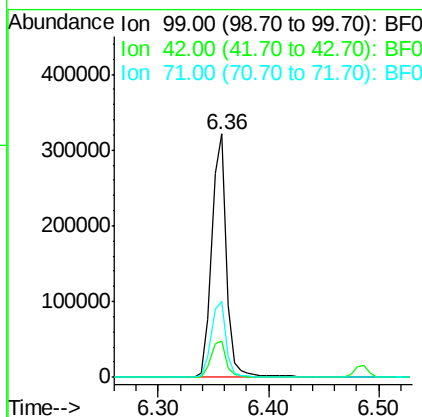
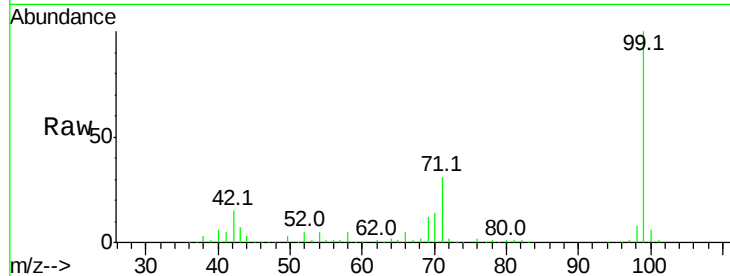
ClientSampleId :

CL-01-082917-D

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		290237		
42	15.0	13.5	20.3		
71	31.5	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.000 ng

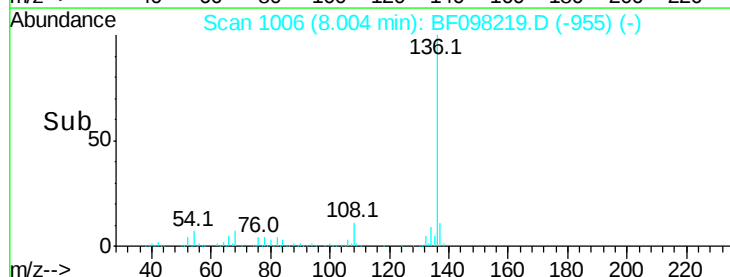
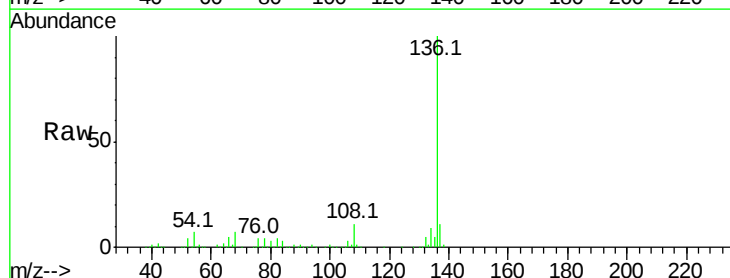
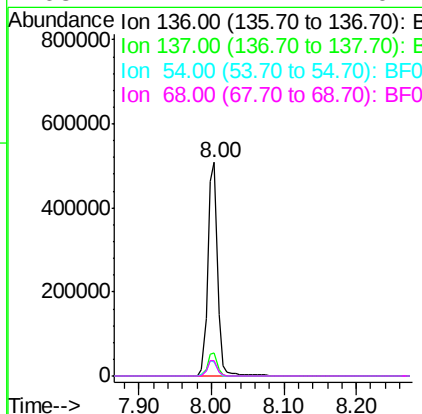
RT: 8.00 min Scan# 1006

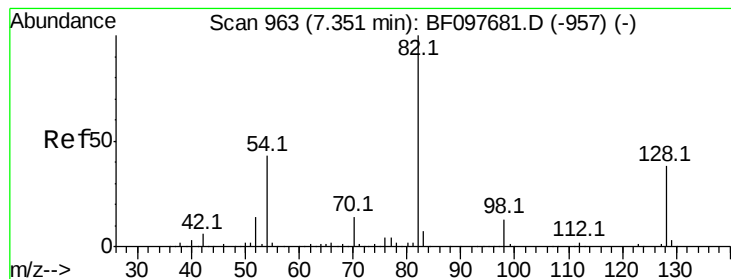
Delta R.T. 0.00 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		476112		
137	10.6	8.5	12.7		
54	6.9	4.9	7.3		
68	7.1	4.1	6.1#		





#23

Nitrobenzene-d5

Concen: 19.755 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

ClientSampleId :

CL-01-082917-D

Tot Ion: 82 Resp: 173136

Ion Ratio Lower Upper

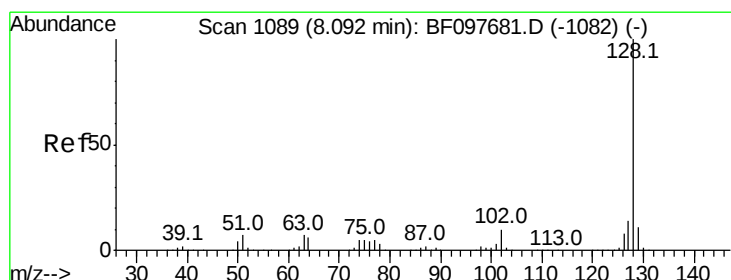
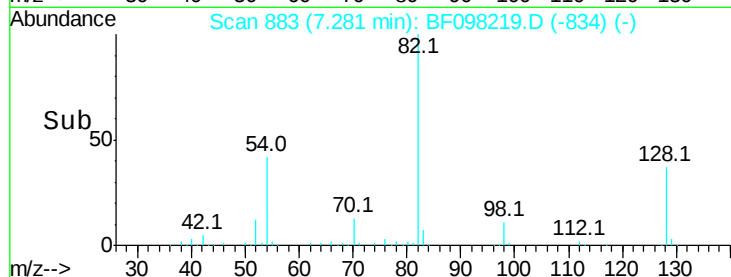
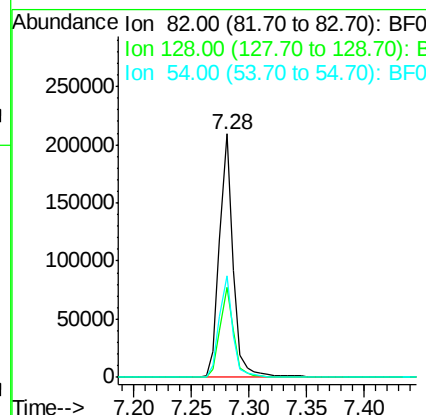
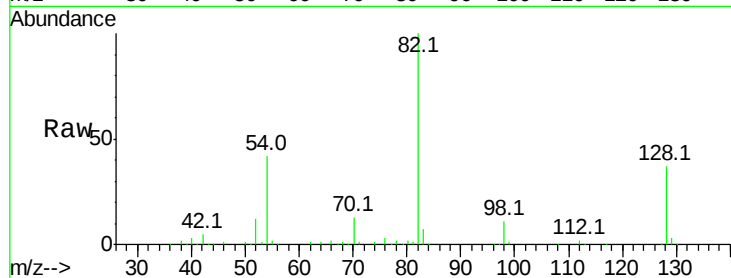
82 100

128 37.1 34.0 51.0

54 41.5 42.2 63.2#

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#31

Naphthalene

Concen: 5.680 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

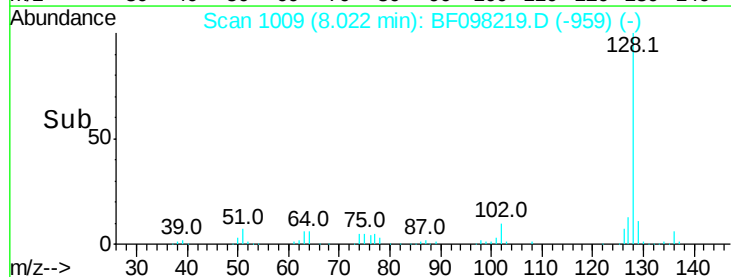
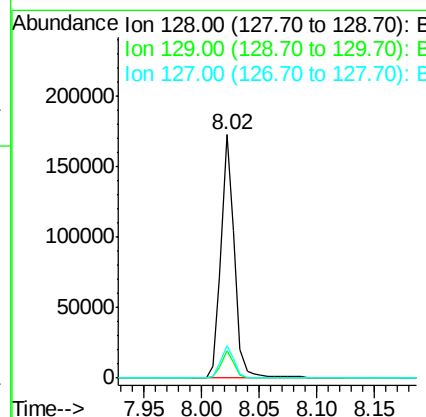
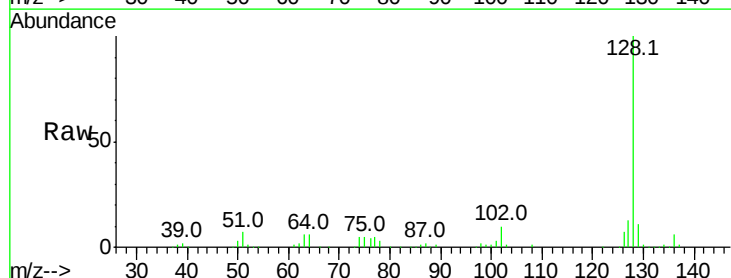
Tgt Ion:128 Resp: 140396

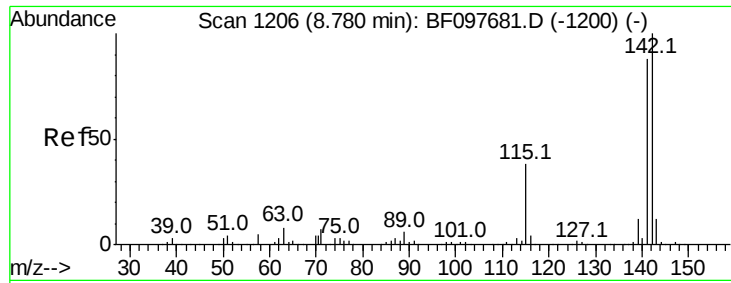
Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.6

127 13.1 10.8 16.2





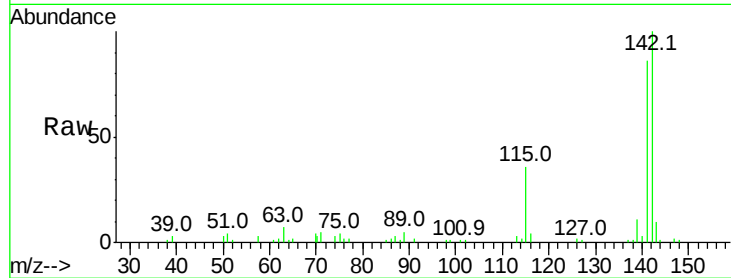
#37
2-Methylnaphthalene
Concen: 3.351 ng
RT: 8.72 min Scan# 1127
Delta R.T. 0.00 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-D

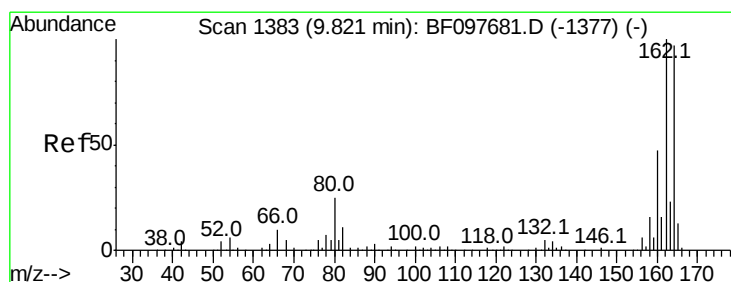
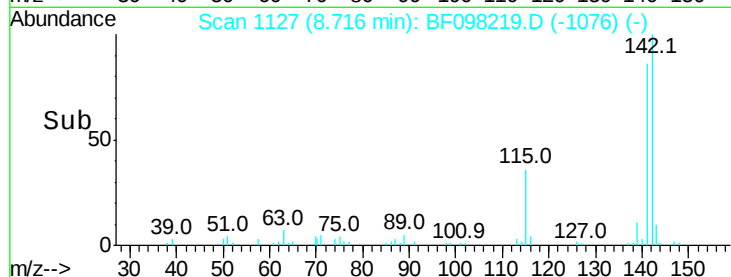
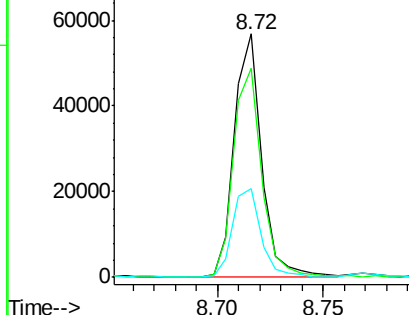
Tot Ion	Ratio	Lower	Upper
142	100		
141	86.0	71.3	106.9
115	36.3	27.1	40.7

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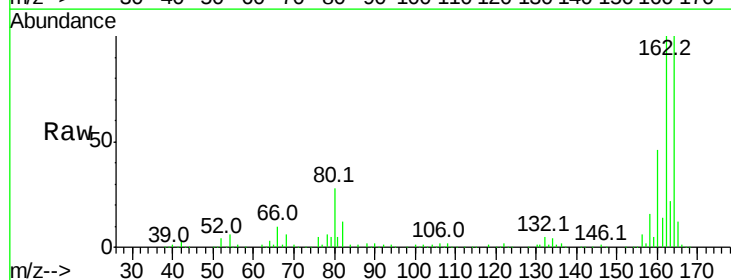


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

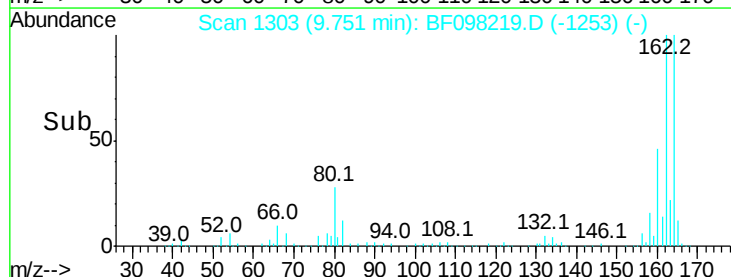
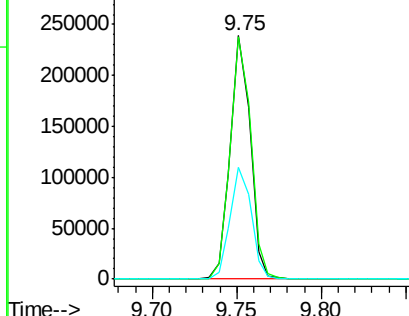


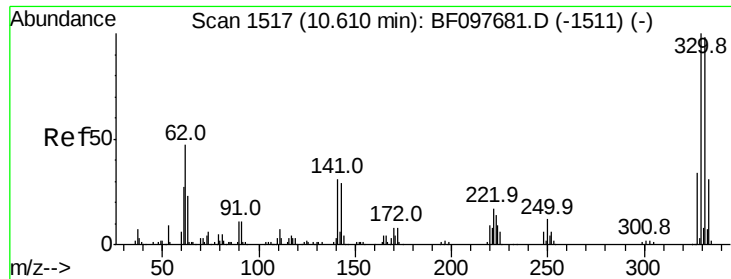
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.7	82.6	123.8
160	45.7	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: 22.752 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

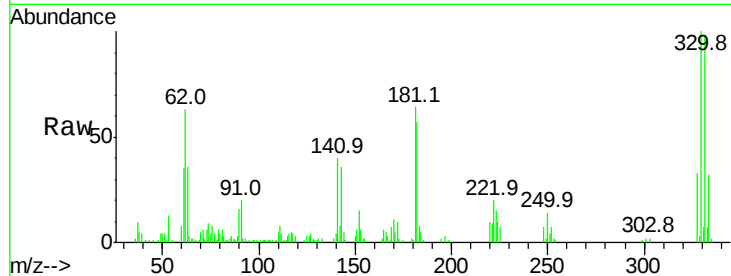
ClientSampleId :

CL-01-082917-D

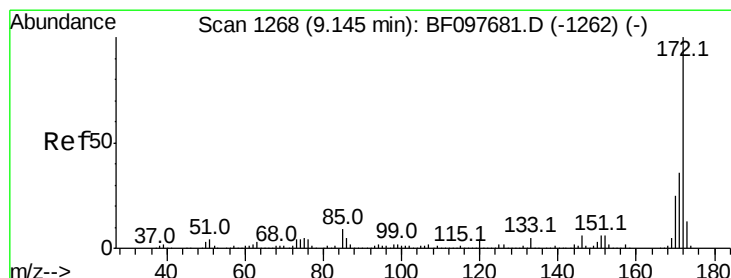
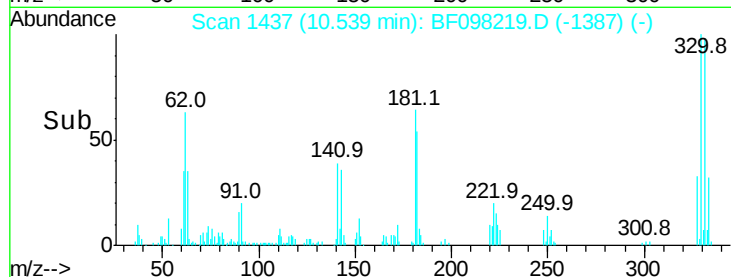
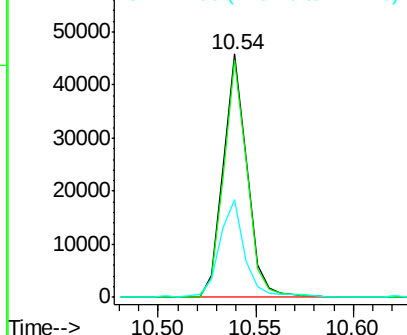
Tot Ion:	330	Resp:	39152
Ion Ratio	Lower	Upper	
330	100		
332	95.4	76.6	115.0
141	42.9	31.4	47.2

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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: 20.760 ng

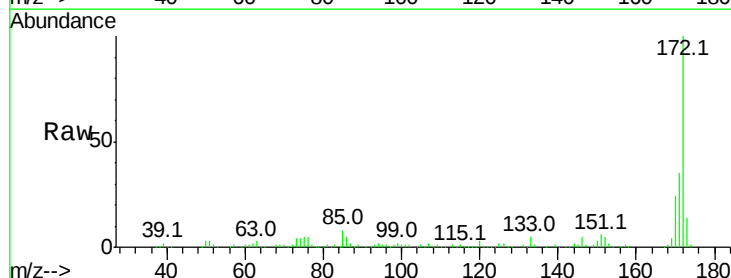
RT: 9.07 min Scan# 1188

Delta R.T. -0.01 min

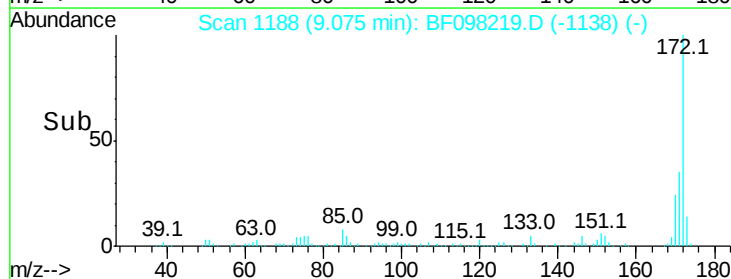
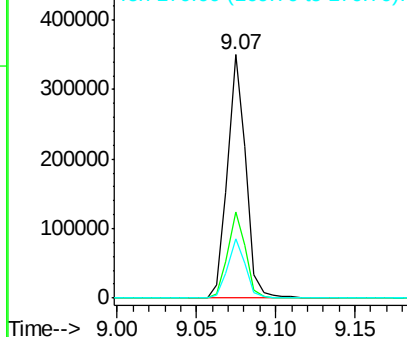
Lab File: BF098219.D

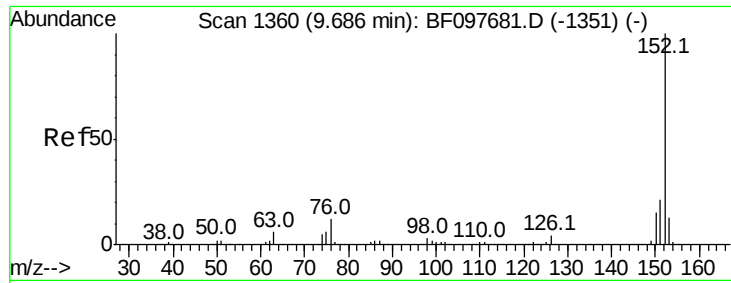
Acq: 1 Sep 2017 11:51

Tgt Ion:	172	Resp:	280243
Ion Ratio	Lower	Upper	
172	100		
171	35.5	29.6	44.4
170	24.3	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





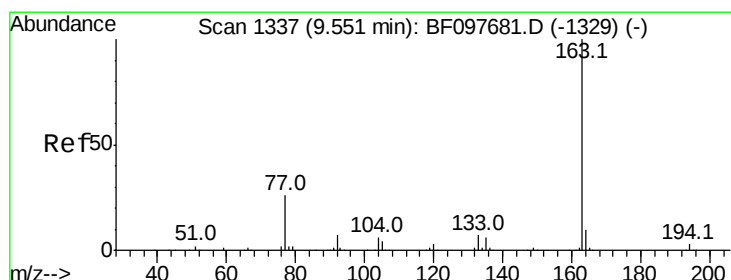
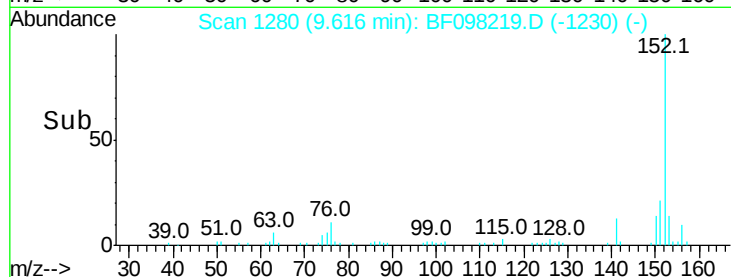
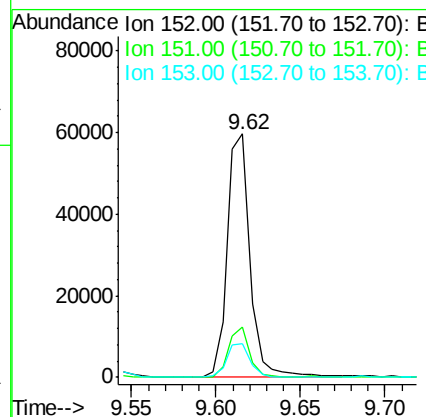
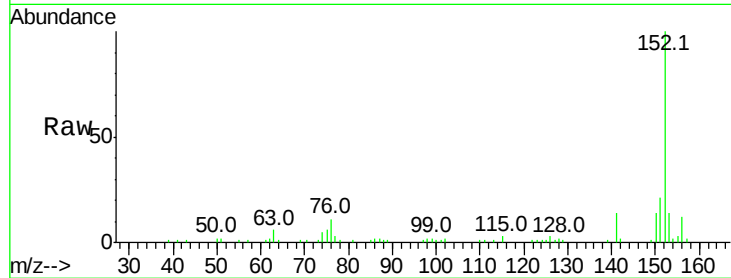
#48
Acenaphthylene
Concen: 2.681 ng
RT: 9.62 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-D

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.8	25.2
153	13.8	10.8	16.2

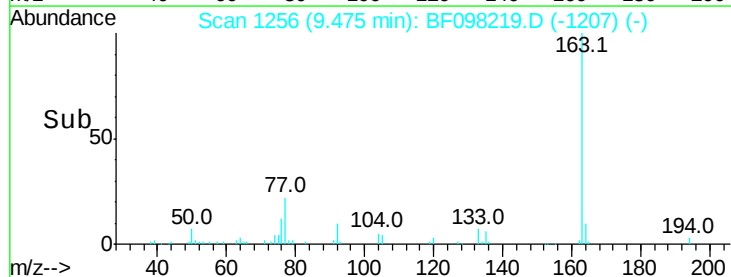
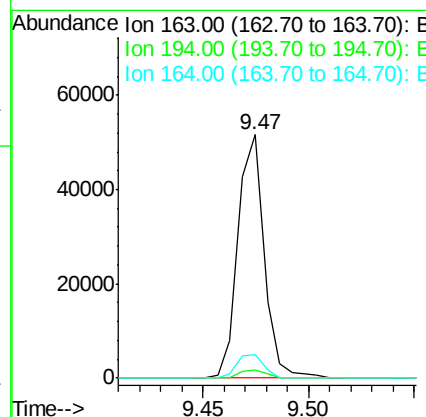
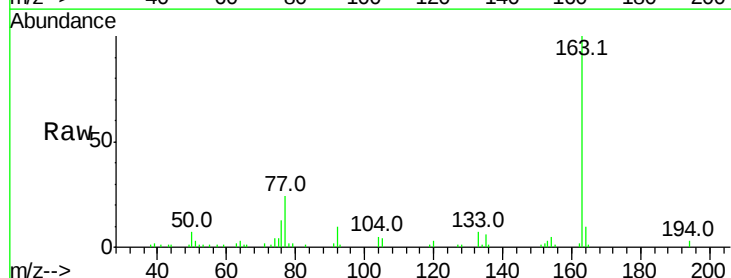
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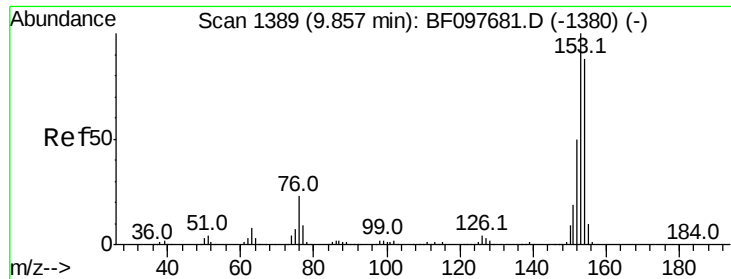
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#49
Dimethylphthalate
Concen: 3.034 ng
RT: 9.47 min Scan# 1256
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.6	4.0
164	9.7	8.4	12.6





#51

Acenaphthene

Concen: 5.319 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

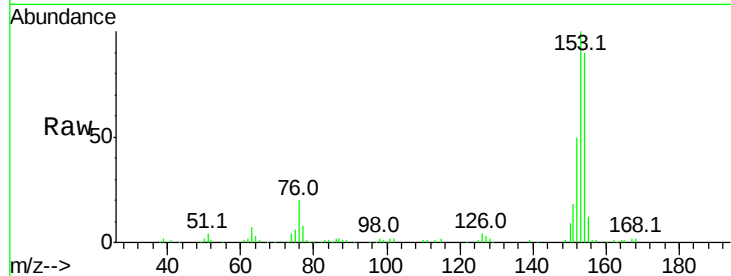
ClientSampleId :

CL-01-082917-D

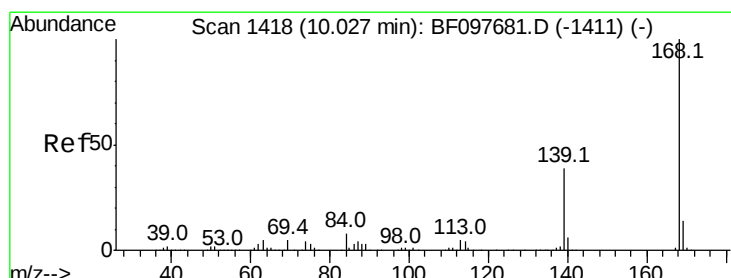
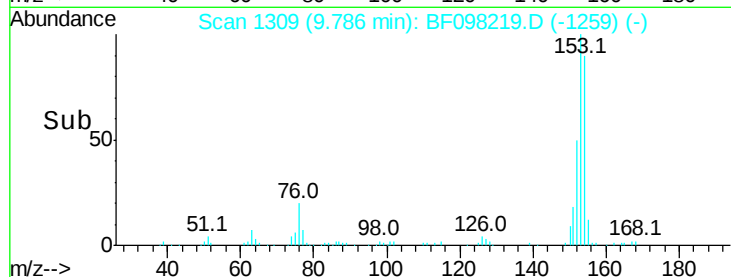
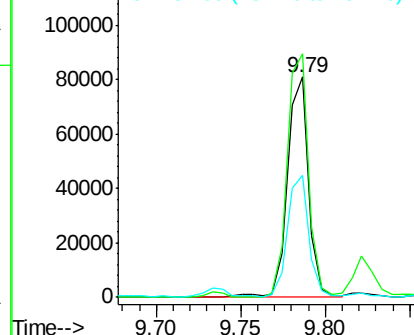
Tot Ion:	154	Resp:	70395
Ion	Ratio	Lower	Upper
154	100		
153	110.7	90.5	135.7
152	55.4	43.6	65.4

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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: 6.871 ng

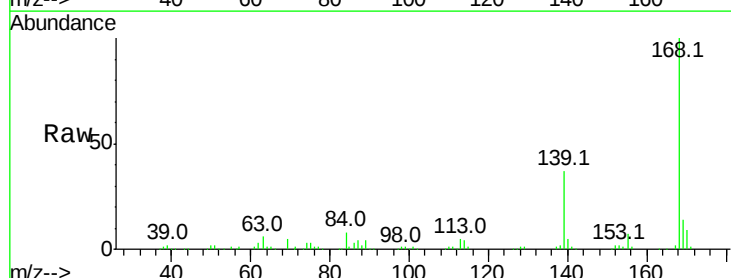
RT: 9.96 min Scan# 1338

Delta R.T. -0.01 min

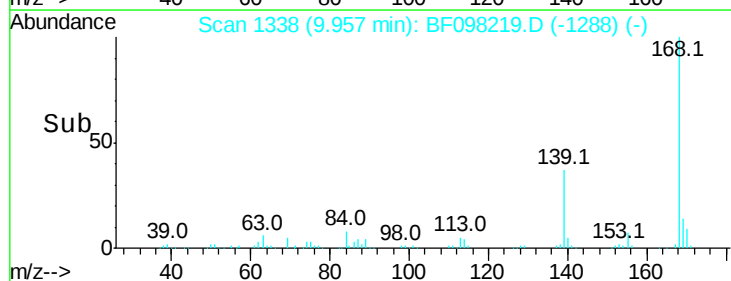
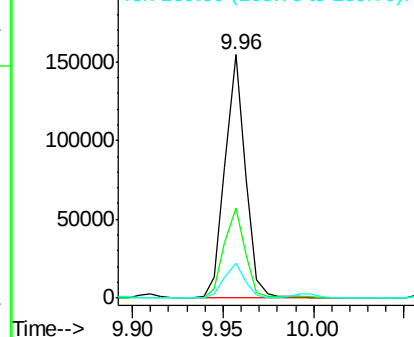
Lab File: BF098219.D

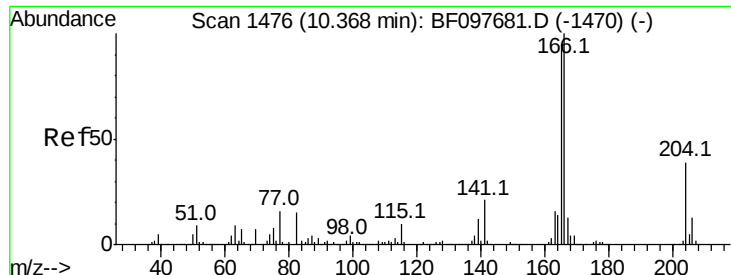
Acq: 1 Sep 2017 11:51

Tgt Ion:	168	Resp:	121872
Ion	Ratio	Lower	Upper
168	100		
139	36.9	30.6	45.8
169	14.5	10.8	16.2



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





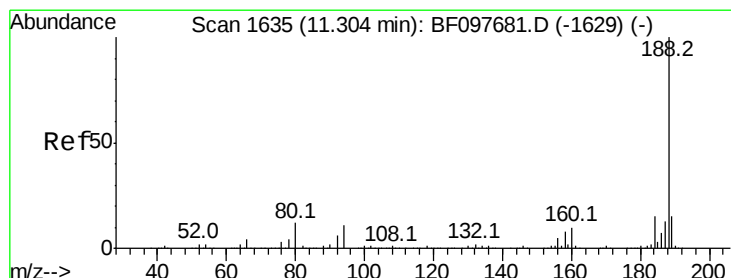
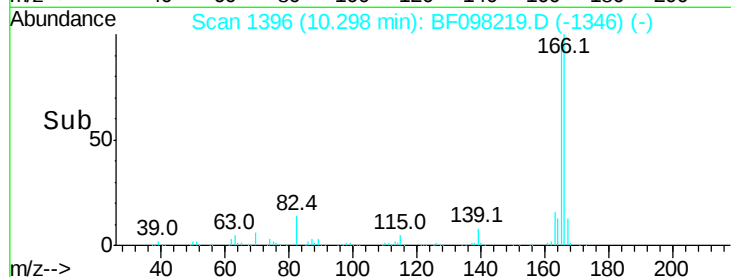
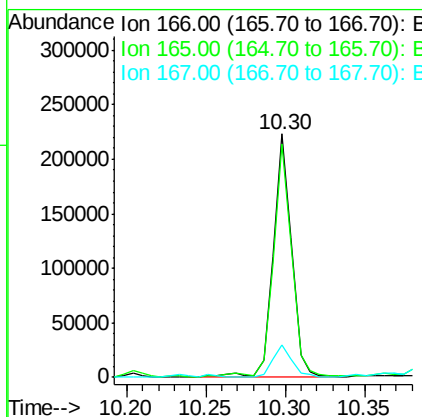
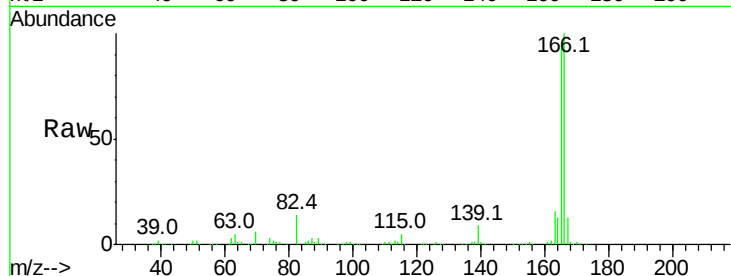
#57
Fluorene
 Concen: 13.178 ng
 RT: 10.30 min Scan# 1396
 Delta R.T. -0.01 min
 Lab File: BF098219.D
 Acq: 1 Sep 2017 11:51

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-082917-D

Tot Ion	Ratio	Resp	Lower	Upper
166	100	180726		
165	96.1		78.8	118.2
167	13.4		10.6	16.0

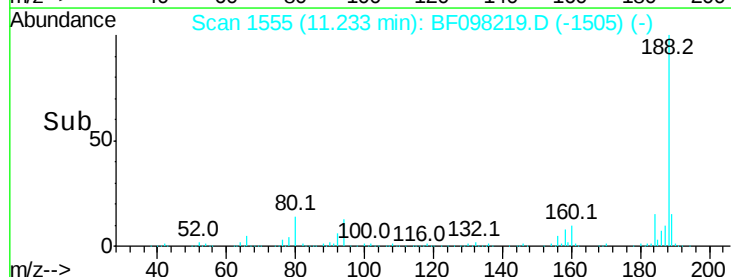
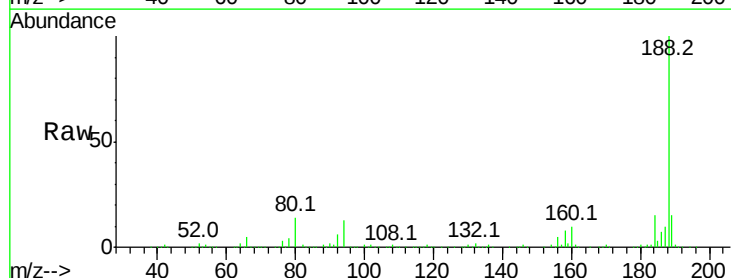
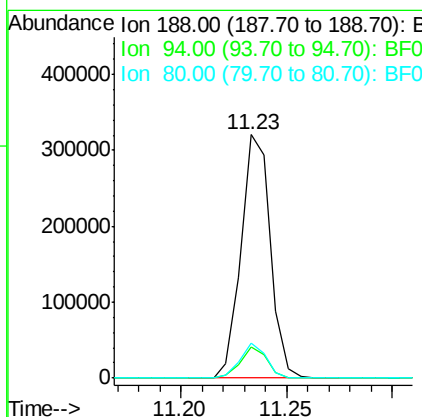
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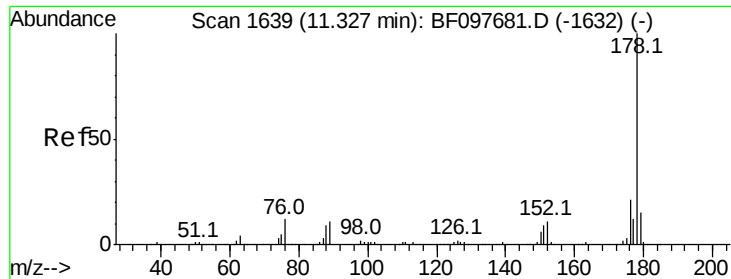
mohammad
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.23 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: BF098219.D
 Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	307051		
94	12.6		9.4	14.2
80	14.4		10.2	15.2





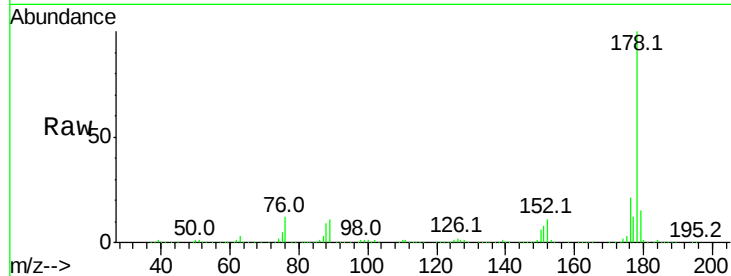
#70
Phenanthrene
Concen: 58.884 ng
RT: 11.26 min Scan# 1560
Delta R.T. 0.00 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-D

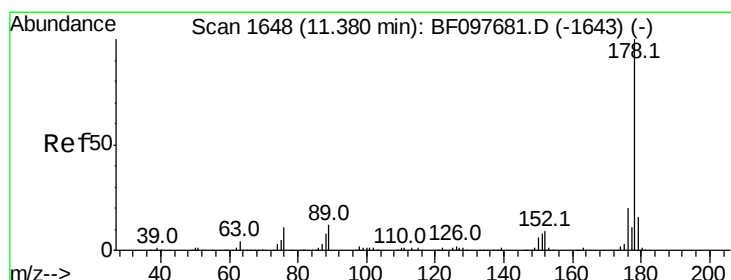
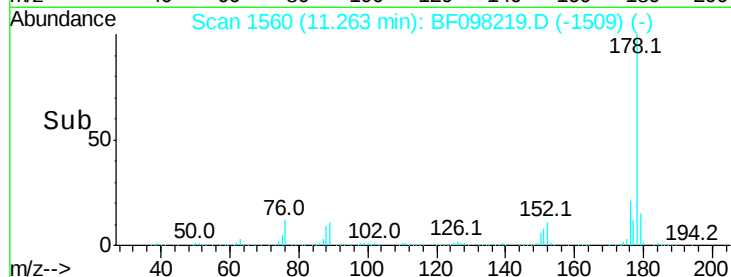
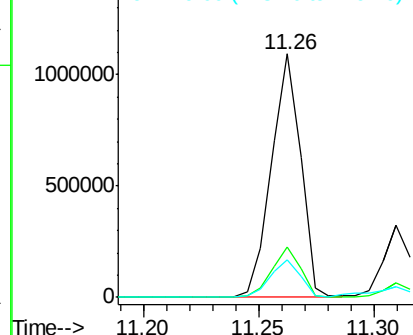
Tot Ion	Ratio	Resp	Lower	Upper
178	100	963452		
176	20.5	16.2	24.4	
179	15.3	12.6	19.0	

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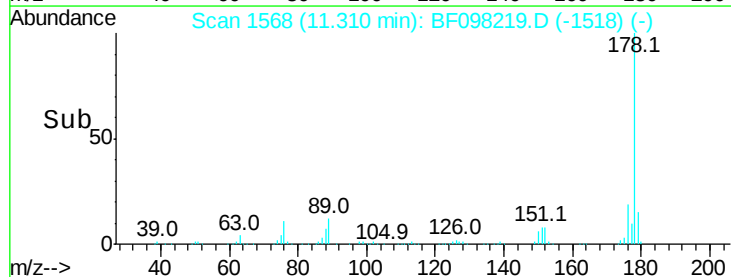
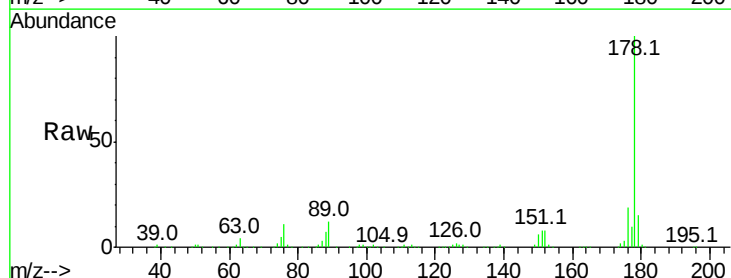
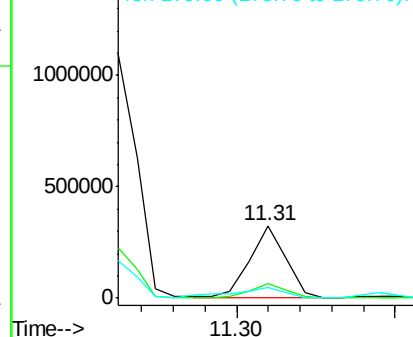
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

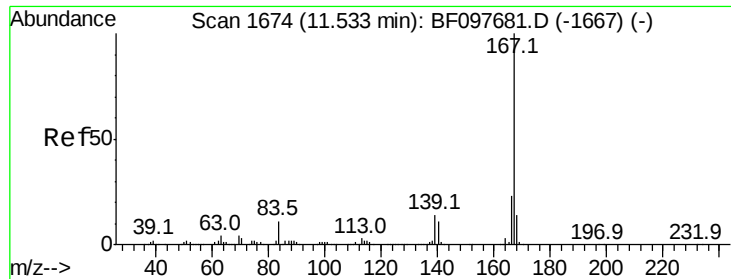


#71
Anthracene
Concen: 15.281 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	253598		
176	19.3	15.8	23.8	
179	15.4	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: 9.220 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

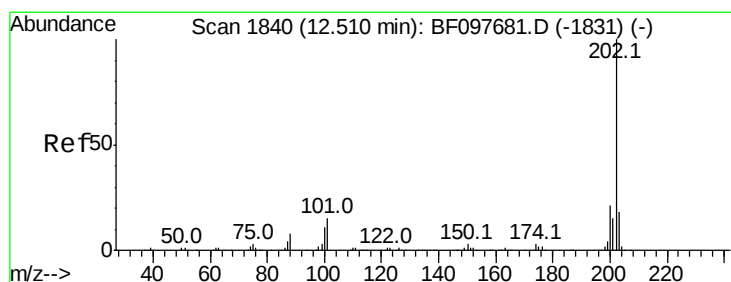
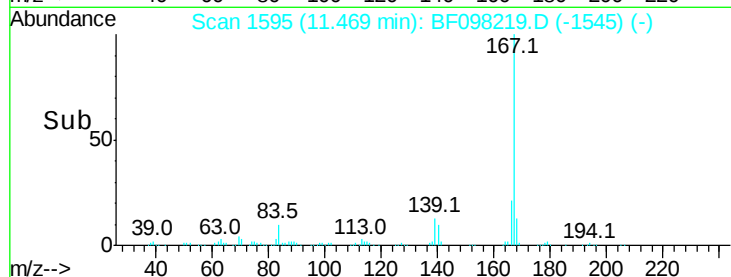
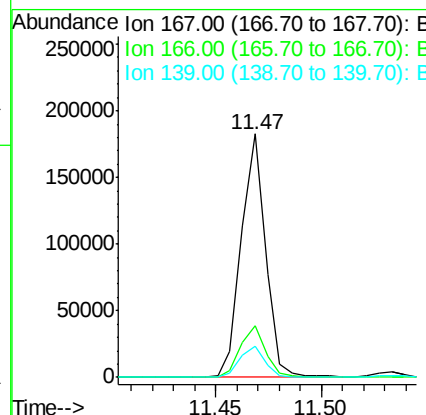
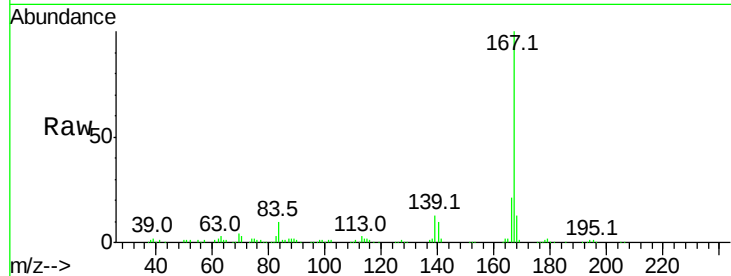
ClientSampleId :

CL-01-082917-D

Tot Ion:	167	Resp:	145242
Ion Ratio	Lower	Upper	
167	100		
166	21.2	18.1	27.1
139	12.6	11.7	17.5

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#74

Fluoranthene

Concen: 49.388 ng

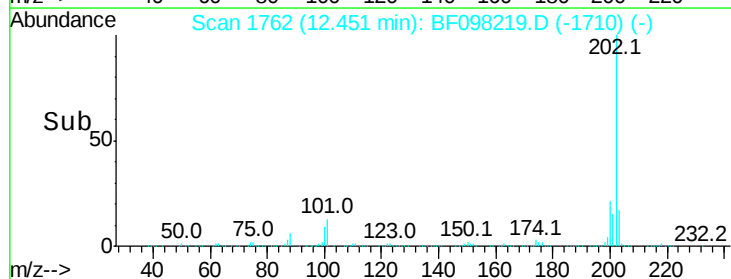
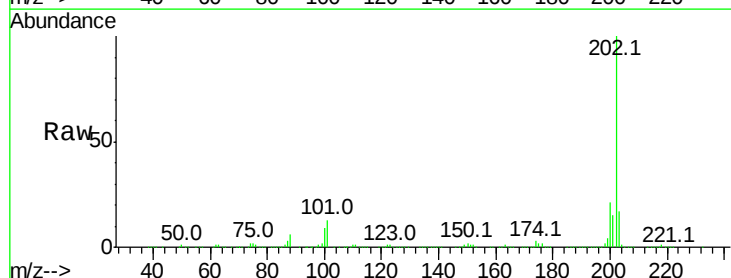
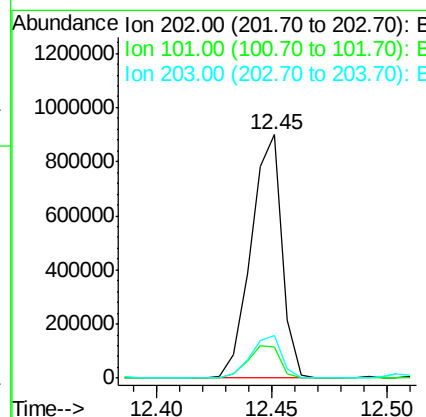
RT: 12.45 min Scan# 1762

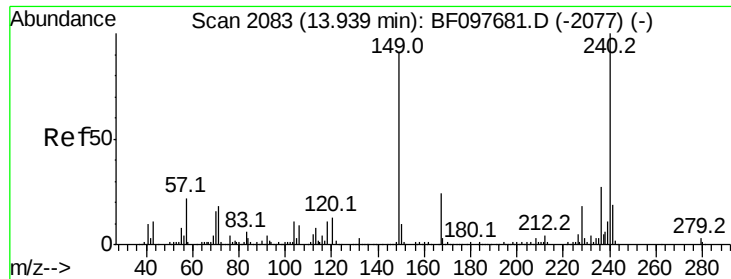
Delta R.T. 0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Tgt Ion:	202	Resp:	843447
Ion Ratio	Lower	Upper	
202	100		
101	12.7	0.0	33.2
203	17.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

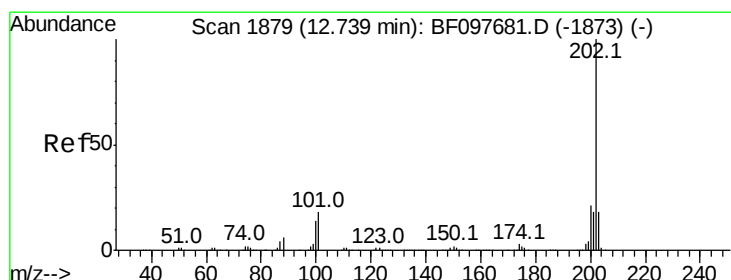
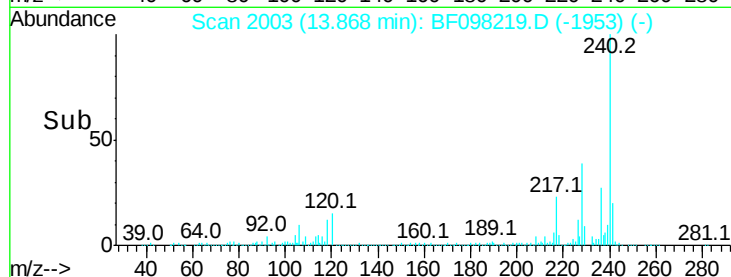
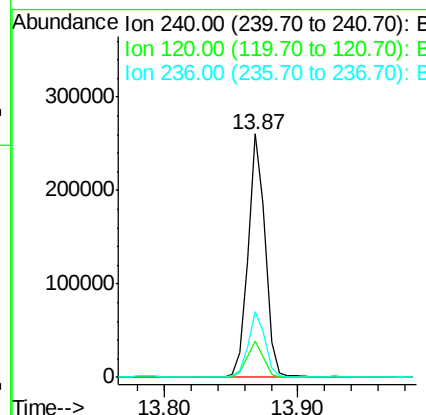
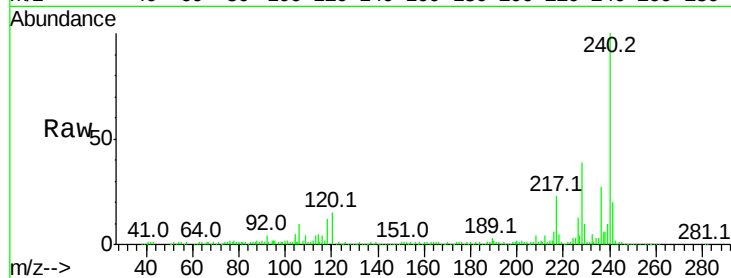
ClientSampled :

CL-01-082917-D

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.9	5.8	8.8#
236	26.9	20.5	30.7

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#77

Pyrene

Concen: 36.663 ng

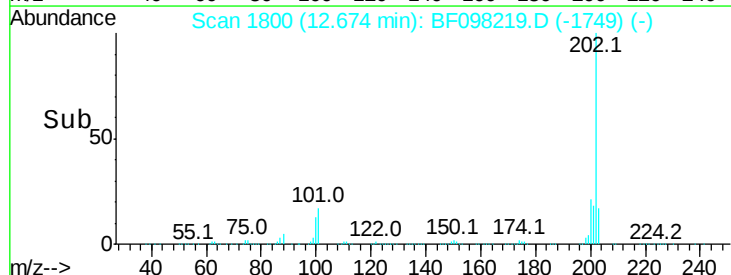
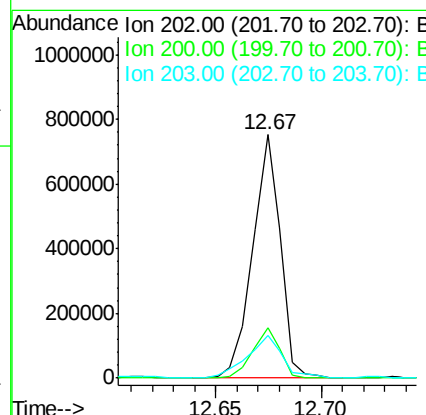
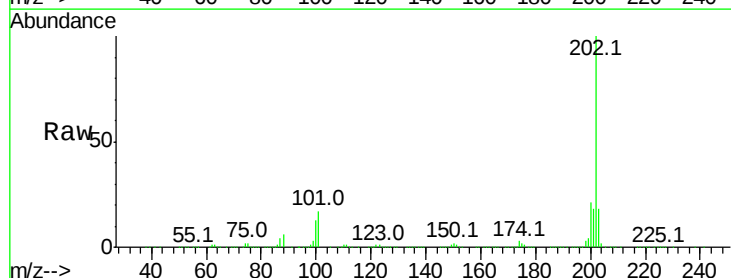
RT: 12.67 min Scan# 1800

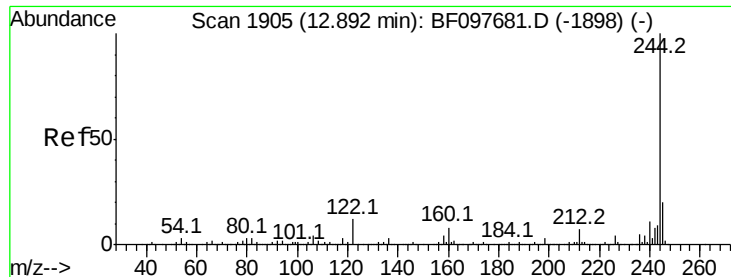
Delta R.T. 0.00 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.6	26.4
203	17.6	14.4	21.6





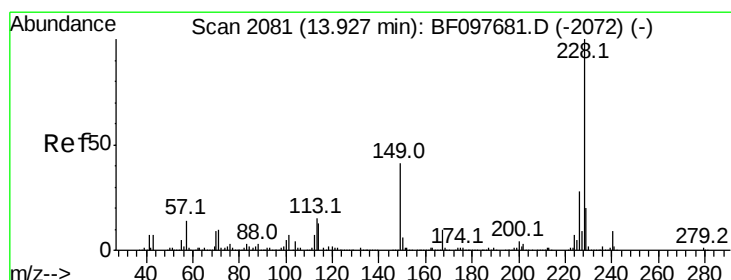
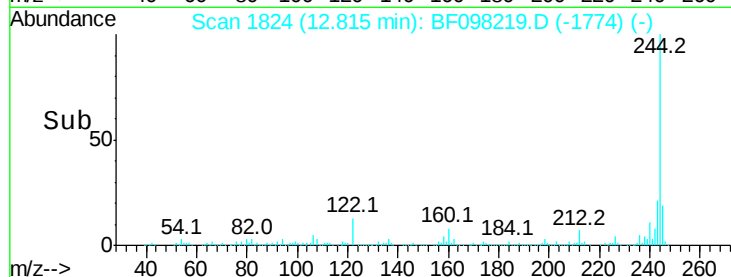
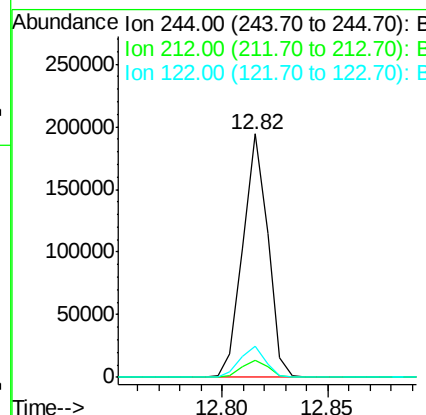
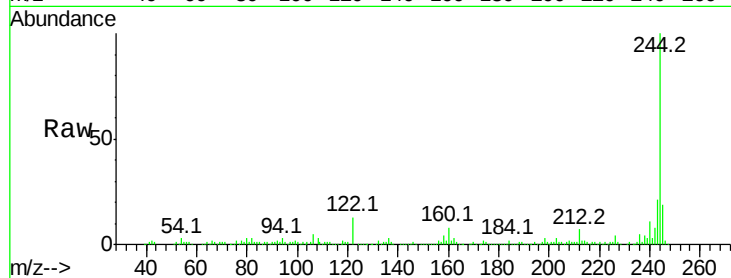
#78
 Terphenyl-d14
 Concen: 14.475 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.01 min
 Lab File: BF098219.D
 Acq: 1 Sep 2017 11:51

Instrument :
 BNA_F
 ClientSampleID :
 CL-01-082917-D

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	12.8	10.3	15.5

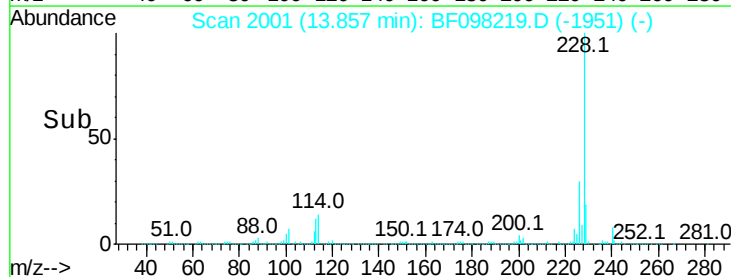
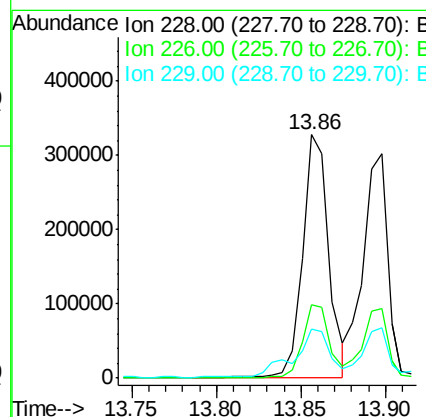
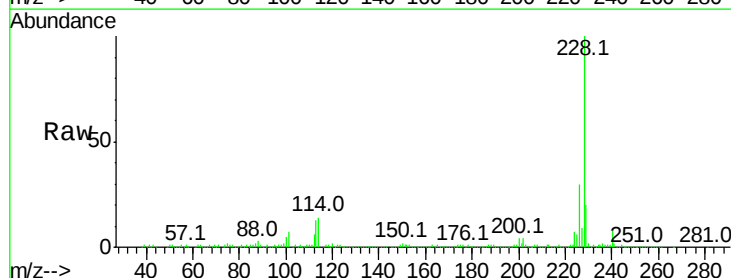
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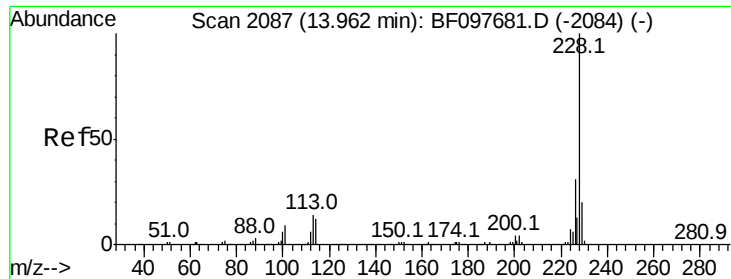
mohammad
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#80
 Benzo(a)anthracene
 Concen: 25.516 ng
 RT: 13.86 min Scan# 2001
 Delta R.T. -0.01 min
 Lab File: BF098219.D
 Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.6	33.8
229	20.1	16.3	24.5





#82

Chrysene

Concen: 22.481 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.00 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

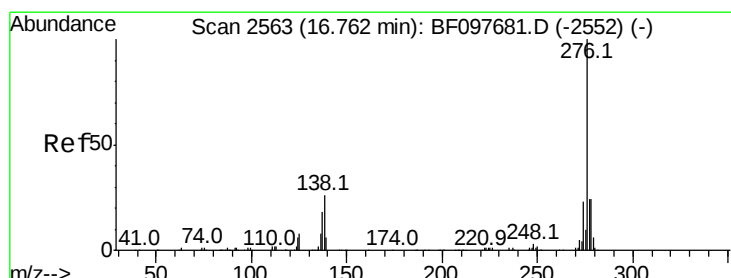
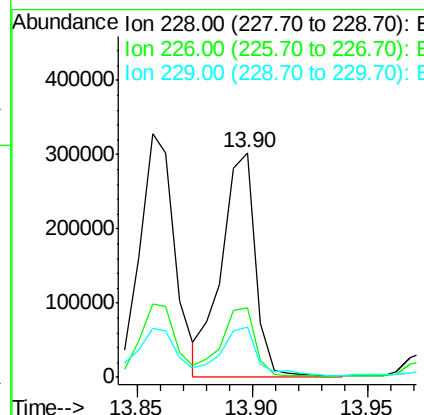
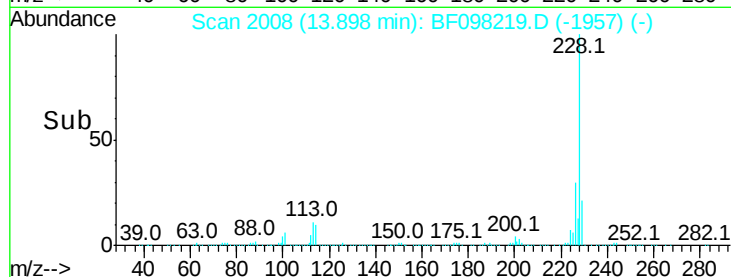
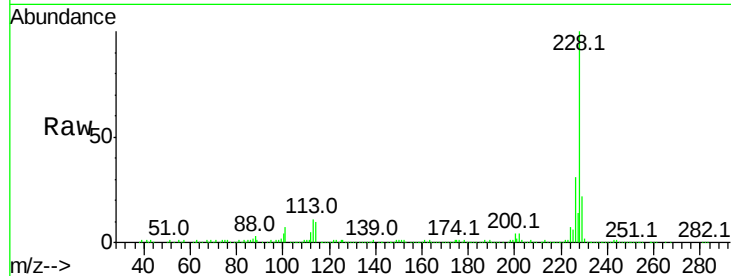
ClientSampleId :

CL-01-082917-D

Tot Ion:	228	Resp:	306806
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.9	37.3
229	22.1	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 13.410 ng m

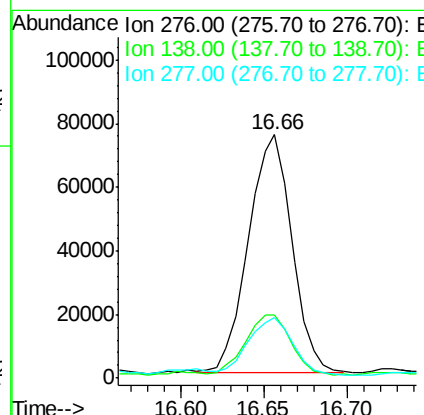
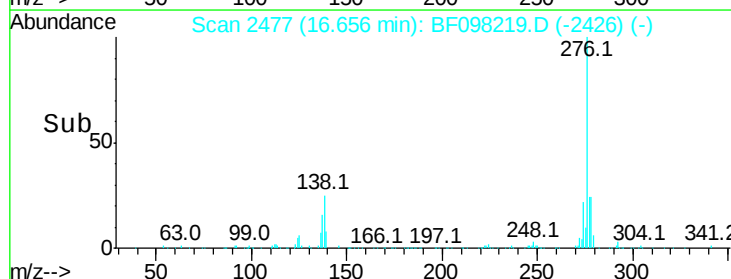
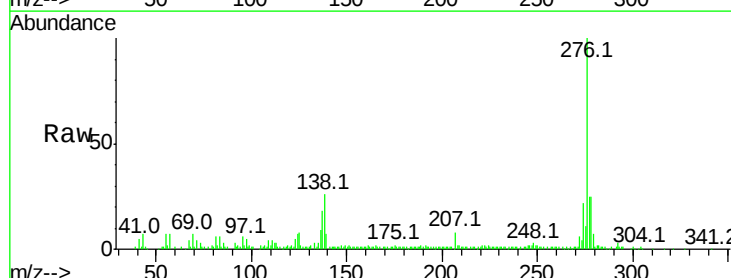
RT: 16.66 min Scan# 2477

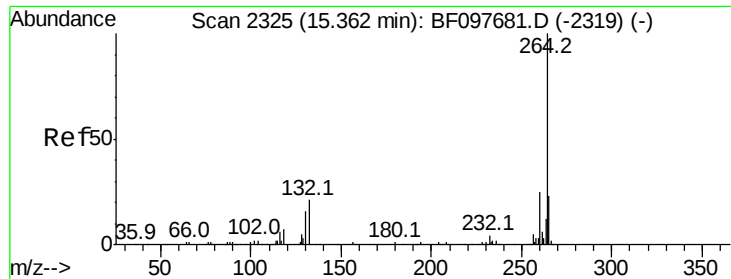
Delta R.T. 0.00 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Tgt Ion:	276	Resp:	134624
Ion Ratio	Lower	Upper	
276	100		
138	6.1	27.8	41.6#
277	4.9	20.2	30.4#





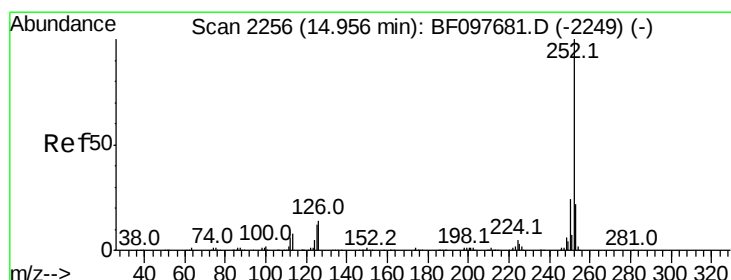
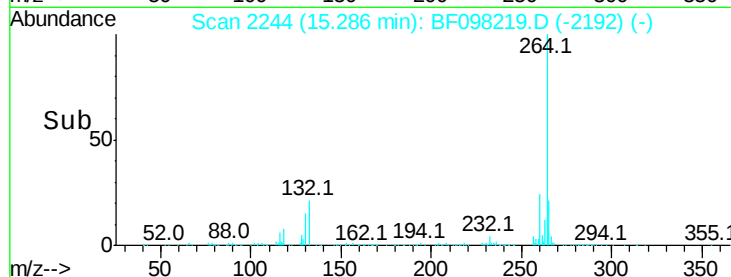
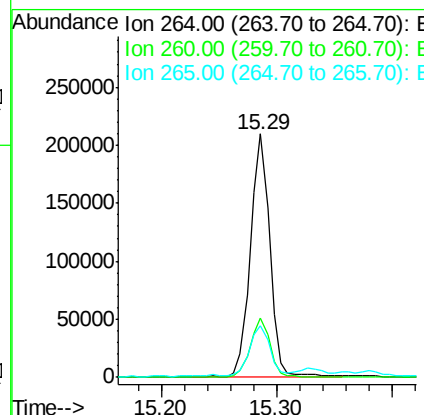
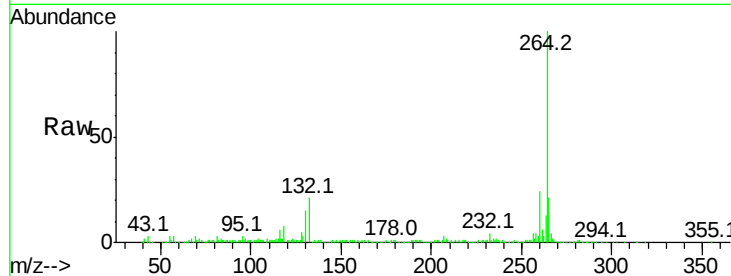
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-D

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	21.2	17.2	25.8

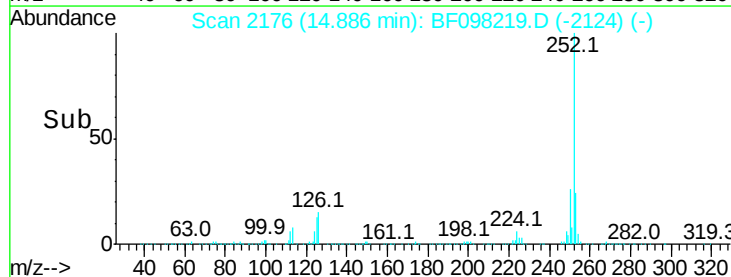
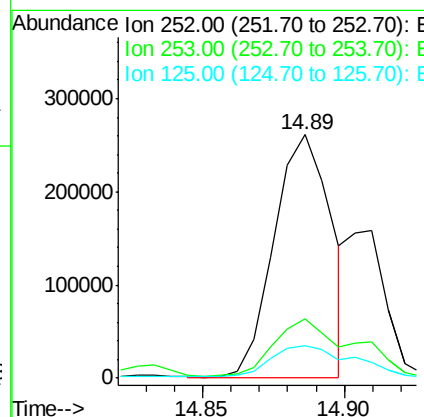
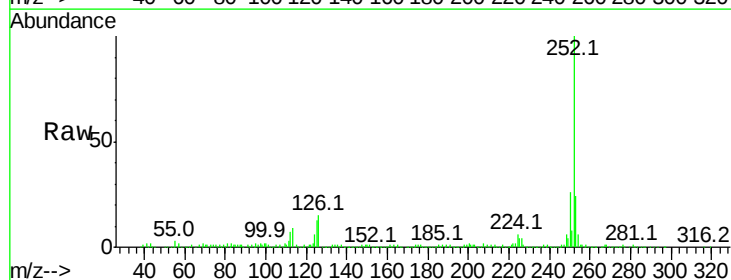
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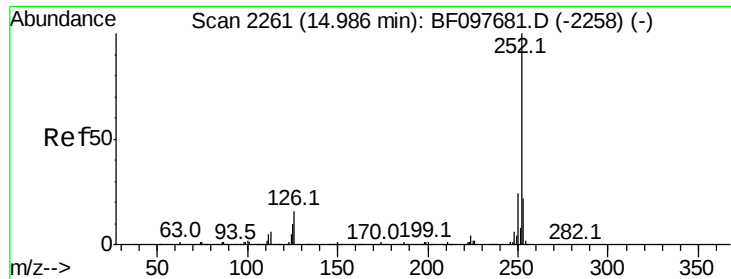
mohammad
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#87
Benzo(b)fluoranthene
Concen: 23.536 ng m
RT: 14.89 min Scan# 2176
Delta R.T. 0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.1	27.1
125	13.4	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 10.245 ng

RT: 14.91 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Instrument :

BNA_F

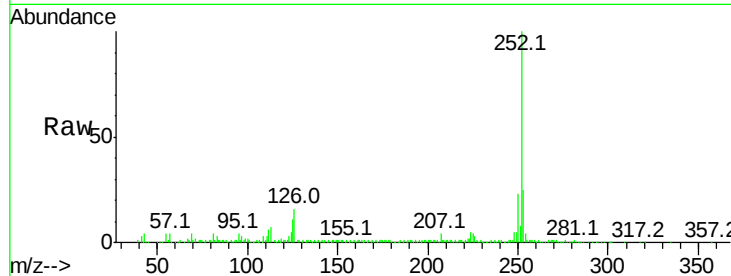
ClientSampleId :

CL-01-082917-D

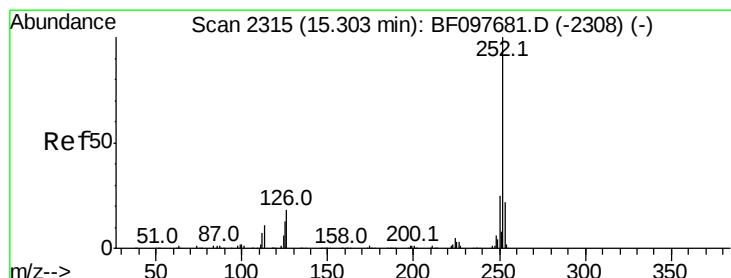
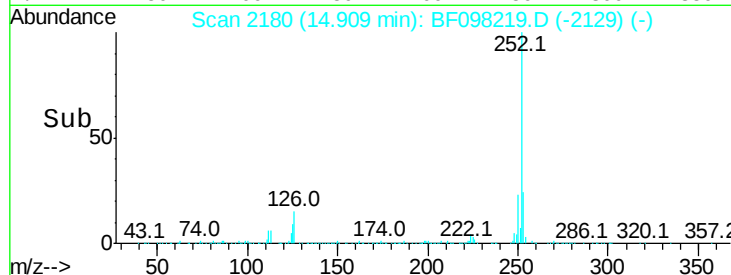
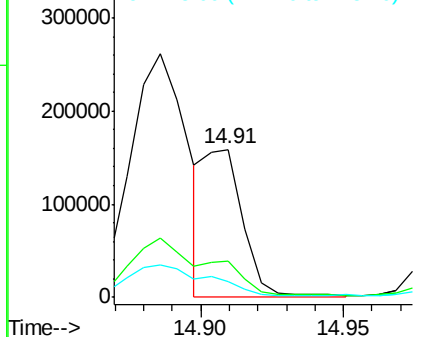
Tot Ion:	252	Resp:	148044
Ion Ratio	Lower	Upper	
252	100		
253	24.6	18.4	27.6
125	10.6	13.1	19.7

Manual Integrations
APPROVED

mohammad
9/5/2017 5:21:50 PM



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: 20.942 ng

RT: 15.23 min Scan# 2234

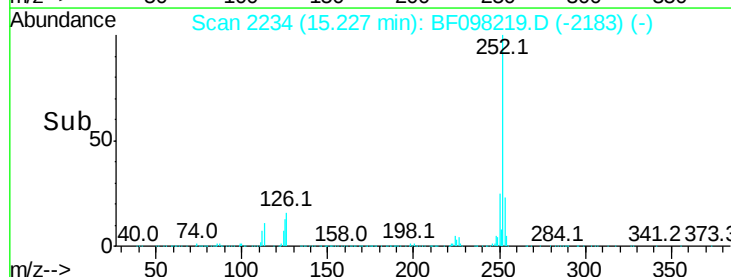
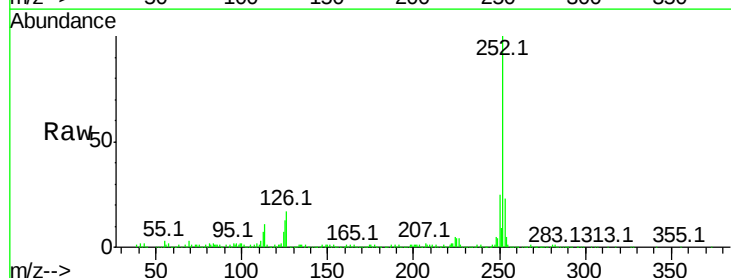
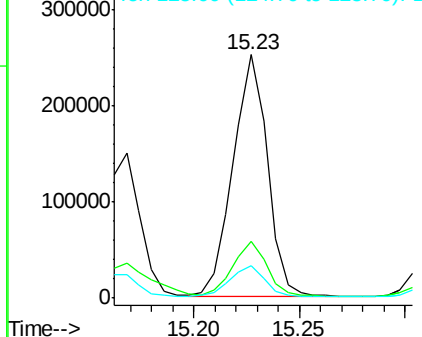
Delta R.T. 0.00 min

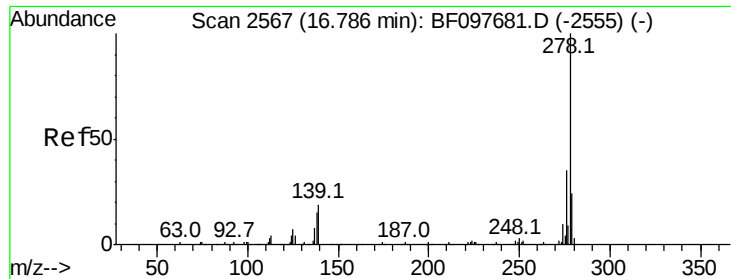
Lab File: BF098219.D

Acq: 1 Sep 2017 11:51

Tgt Ion:	252	Resp:	285157
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.5	26.3
125	13.3	11.0	16.4

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





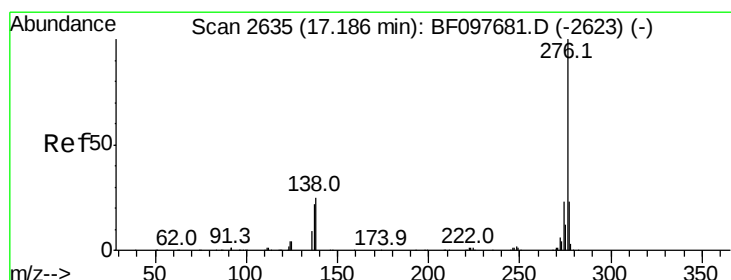
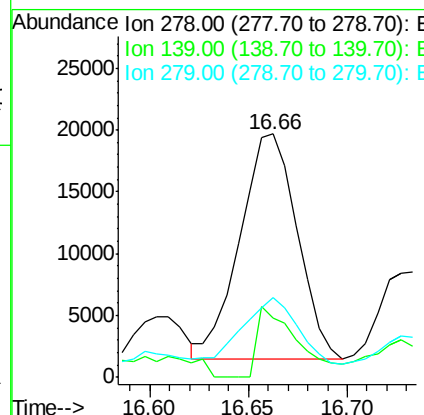
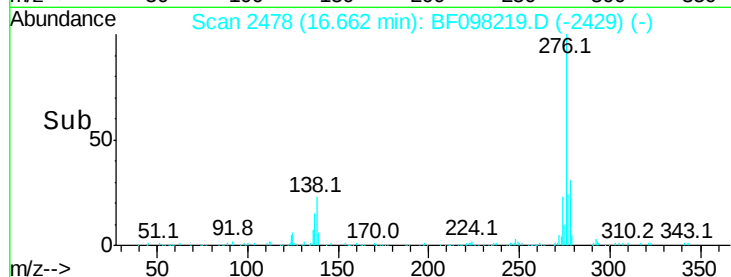
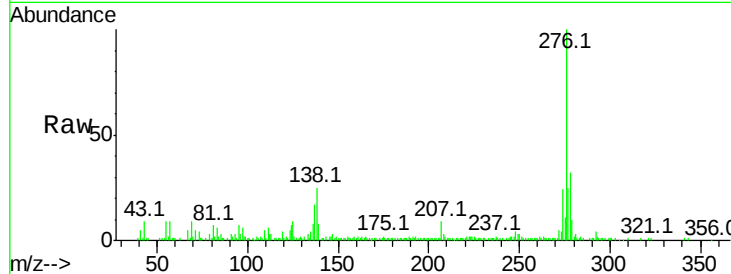
#90
Dibenzo(a,h)anthracene
Concen: 3.328 ng
RT: 16.66 min Scan# 2478
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Instrument :
BNA_F
ClientSampled :
CL-01-082917-D

Tot Ion:	278	Resp:	36891
Ion Ratio	Lower	Upper	
278	100		
139	24.5	16.6	24.8
279	32.5	19.3	28.9#

Manual Integrations
APPROVED

mohammad
9/5/2017 5:21:50 PM



#91
Benzo(g,h,i)perylene
Concen: 10.108 ng
RT: 17.07 min Scan# 2547
Delta R.T. -0.01 min
Lab File: BF098219.D
Acq: 1 Sep 2017 11:51

Tgt Ion:	276	Resp:	116916
Ion Ratio	Lower	Upper	
276	100		
277	25.5	18.6	28.0
138	24.5	25.4	38.0#

