

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
 Data File : BF096029.D
 Acq On : 20 Jun 2017 5:46
 Operator : SJ/MA
 Sample : I3688-18
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G11-1.5-3

Manual Integrations
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 6/20/2017 4:29:43 PM

Quant Time: Jun 20 08:25:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 16 17:12:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	67661	20.00	ng	-0.02
21) Naphthalene-d8	9.34	136	255442	20.00	ng	-0.02
38) Acenaphthene-d10	12.16	164	100624	20.00	ng	-0.02
63) Phenanthrene-d10	14.56	188	148987	20.00	ng	-0.01
75) Chrysene-d12	18.29	240	120517	20.00	ng	0.00
86) Perylene-d12	19.96	264	96693	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	463508	109.16	ng	-0.01
7) Phenol-d6	6.89	99	571107	112.35	ng	-0.02
23) Nitrobenzene-d5	8.23	82	316140	76.86	ng	-0.02
41) 2,4,6-Tribromophenol	13.46	330	73767	82.86	ng	-0.02
44) 2-Fluorobiphenyl	11.12	172	538402	74.46	ng	-0.02
78) Terphenyl-d14	16.94	244	344269	70.89	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.37	128	83801	6.54	ng	99
37) 2-Methylnaphthalene	10.50	142	94855	10.95	ng	97
45) 1,1'-Biphenyl	11.27	154	58579	7.06	ng	95
48) Acenaphthylene	11.93	152	78043	7.04	ng	98
49) Dimethylphthalate	11.82	163	77439	10.14	ng	97
51) Acenaphthene	12.21	154	99738	15.59	ng	99
54) Dibenzofuran	12.50	168	235095	26.10	ng	97
57) Fluorene	13.05	166	179818	22.94	ng	# 95
70) Phenanthrene	14.62	178	2236823	260.21	ng	98
71) Anthracene	14.69	178	451804	50.34	ng	98
72) Carbazole	14.99	167	39133	4.47	ng	97
74) Fluoranthene	16.40	202	2016069	236.95	ng	99
77) Pvrene	16.71	202	1567880	174.36	ng	99
80) Benzo(a)anthracene	18.28	228	586009	83.63	ng	98
82) Chrysene	18.33	228	649240	92.72	ng	99
85) Indeno(1,2,3-cd)pyrene	21.12	276	116352	19.42	ng	92
87) Benzo(b)fluoranthene	19.56	252	494761m	81.72	ng	
88) Benzo(k)fluoranthene	19.58	252	141608m	24.47	ng	
89) Benzo(a)pvrene	19.90	252	191308	34.38	ng	98
90) Dibenzo(a,h)anthracene	21.11	278	53898m	11.42	ng	
91) Benzo(q,h,i)perylene	21.45	276	92932	19.31	ng	99

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

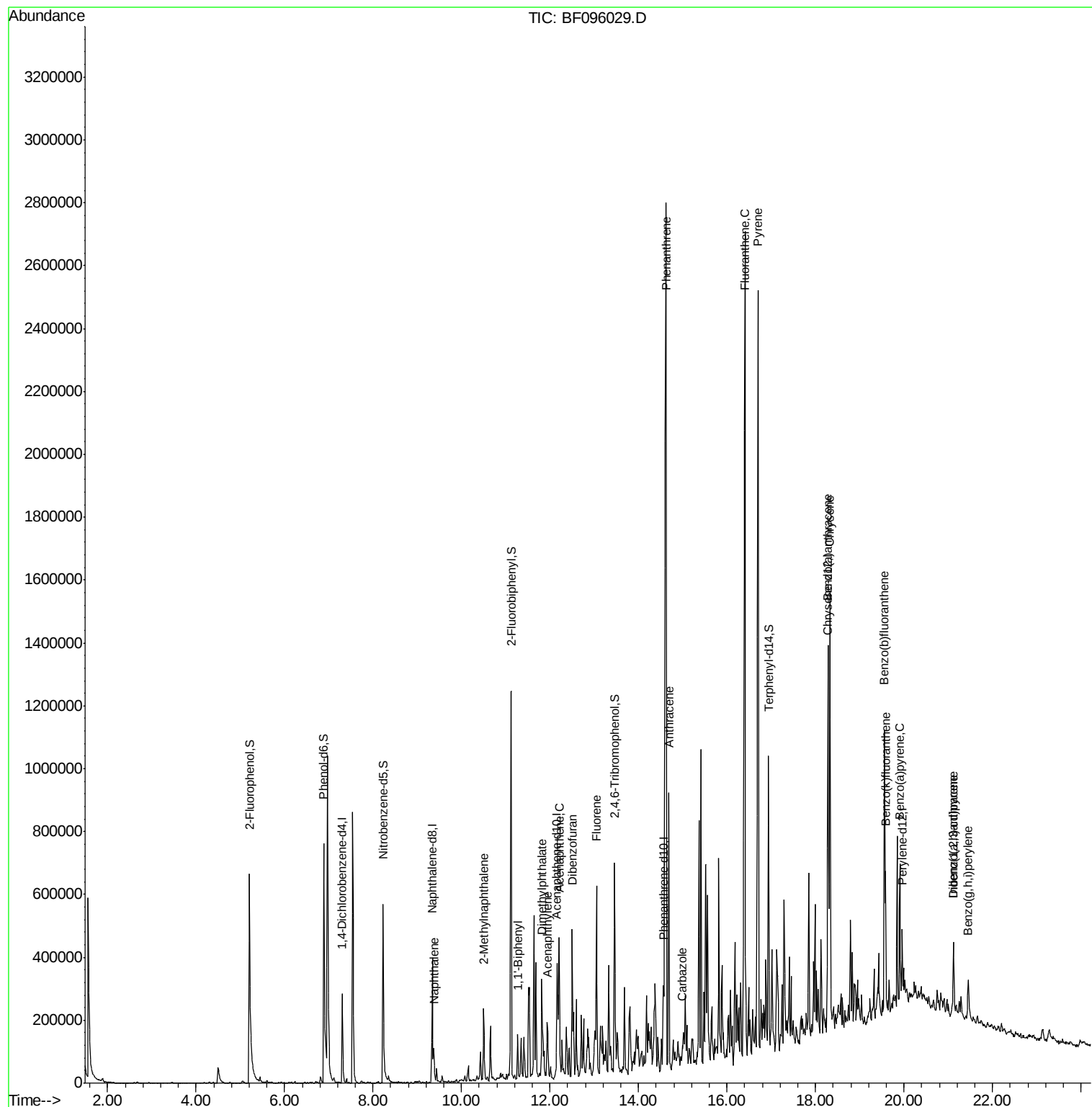
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
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ALS Vial : 30 Sample Multiplier: 1

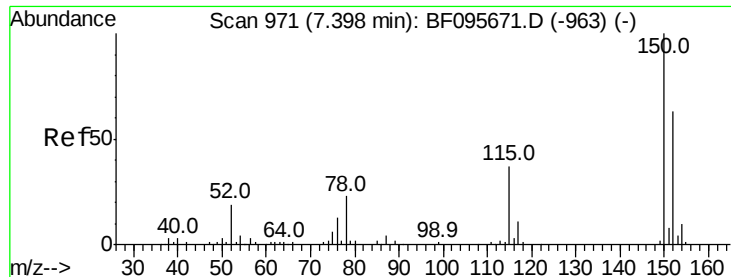
Instrument :
BNA_F
ClientSampleId :
G11-1.5-3

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QLast Update : Fri Jun 16 17:12:03 2017
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.30 min Scan# 989

Delta R.T. -0.02 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Instrument :

BNA_F

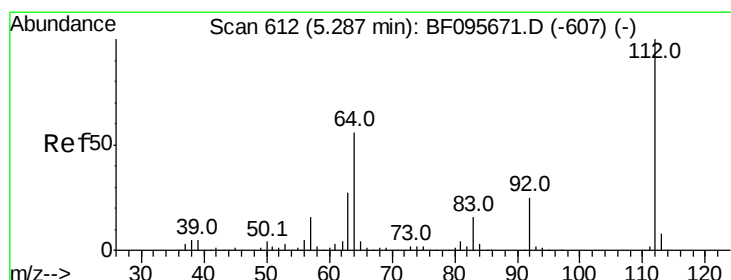
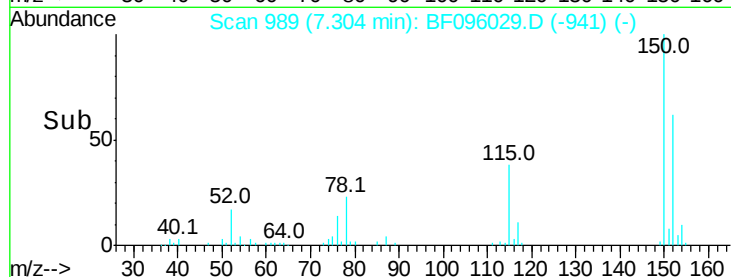
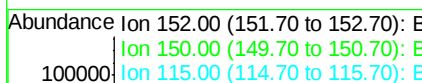
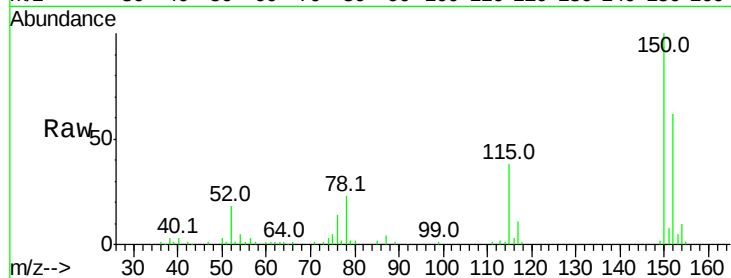
ClientSampleId :

G11-1.5-3

Tot Ion:	152	Resp:	67661
Ion	Ratio	Lower	Upper
152	100		
150	160.2	126.2	189.2
115	60.3	52.2	78.2

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#5

2-Fluorophenol

Concen: 109.16 ng

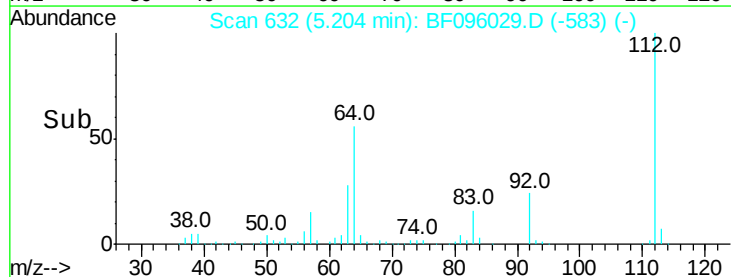
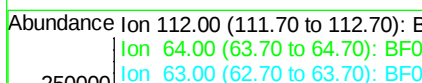
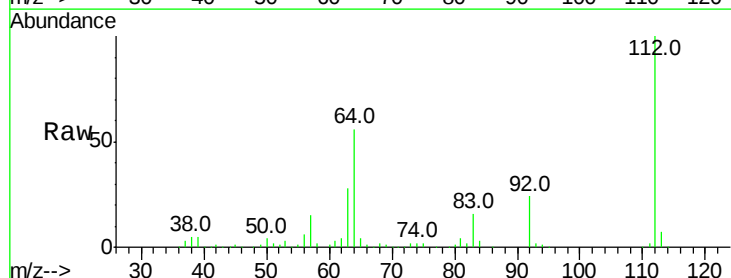
RT: 5.20 min Scan# 632

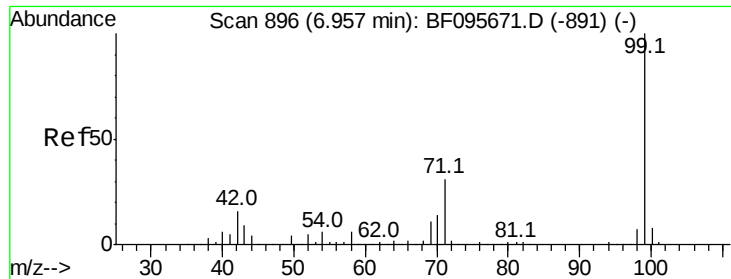
Delta R.T. -0.01 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Tgt Ion:	112	Resp:	463508
Ion	Ratio	Lower	Upper
112	100		
64	55.5	46.0	69.0
63	27.8	23.4	35.0





#7

Phenol-d6

Concen: 112.35 ng

RT: 6.89 min Scan# 918

Delta R.T. -0.02 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Instrument :

BNA_F

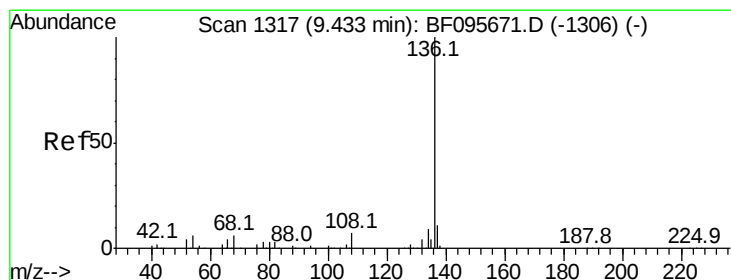
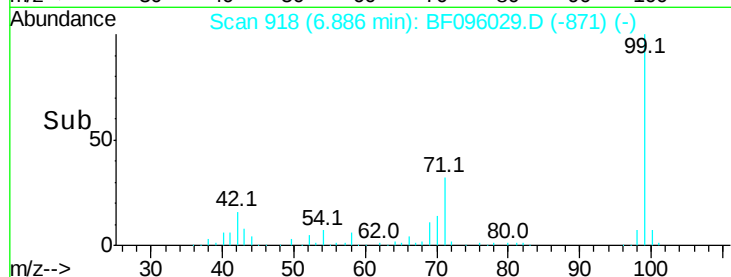
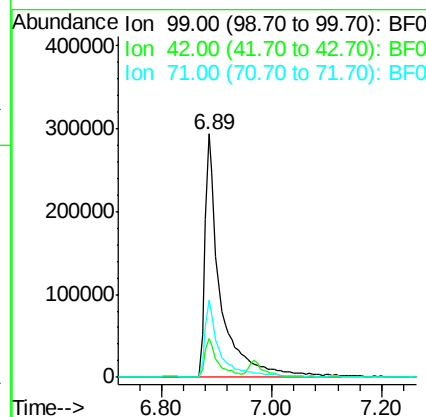
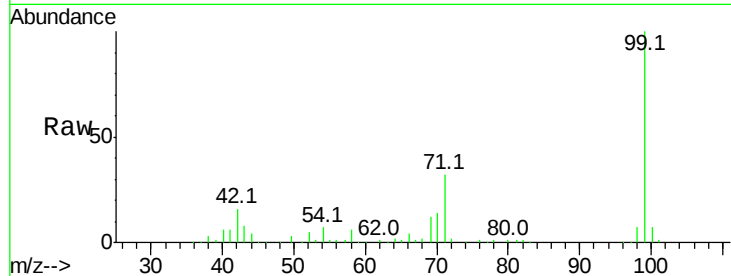
ClientSampleId :

G11-1.5-3

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		571107		
42	16.0	13.5	20.3		
71	31.6	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

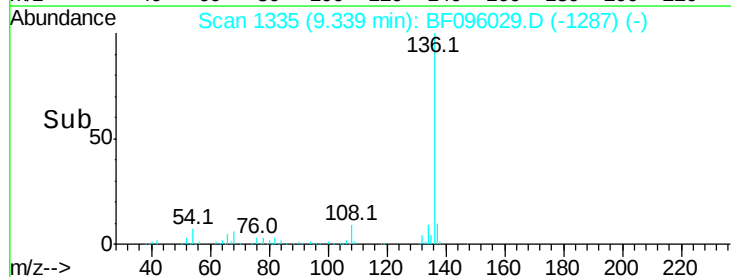
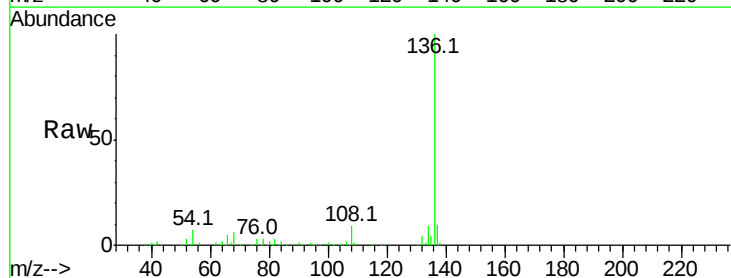
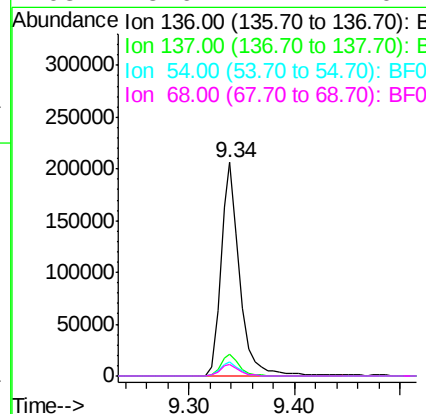
RT: 9.34 min Scan# 1335

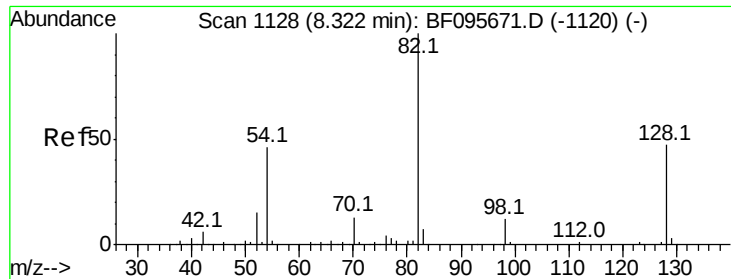
Delta R.T. -0.02 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		255442		
137	10.3	8.5	12.7		
54	6.7	4.9	7.3		
68	5.6	4.1	6.1		





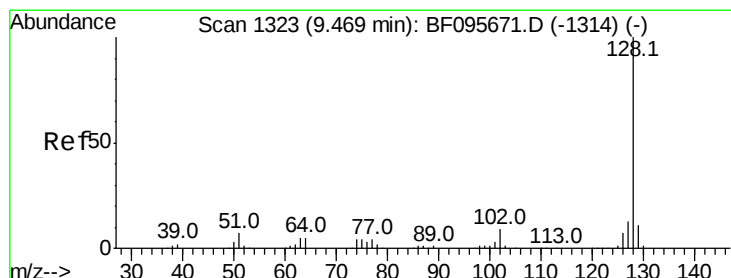
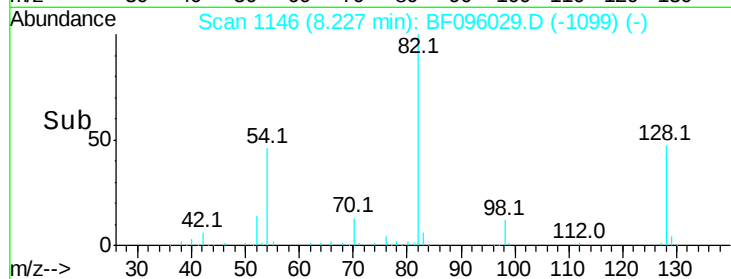
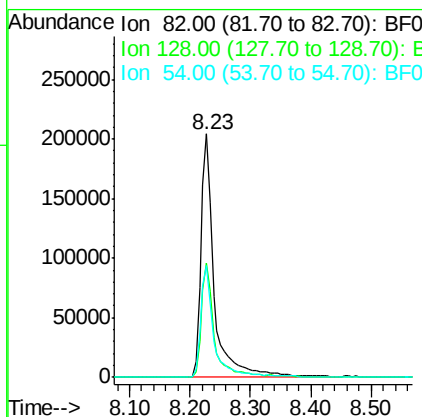
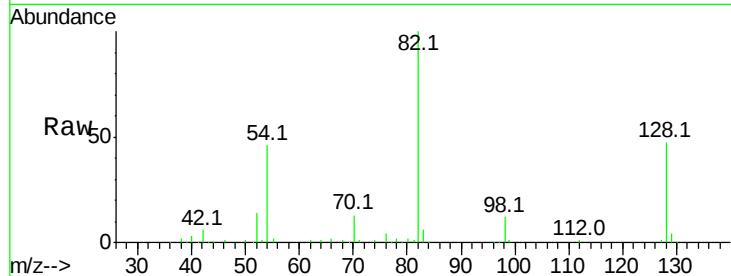
#23
Nitrobenzene-d5
Concen: 76.86 ng
RT: 8.23 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampleId :
G11-1.5-3

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.1	34.0	51.0	
54	45.9	42.2	63.2	

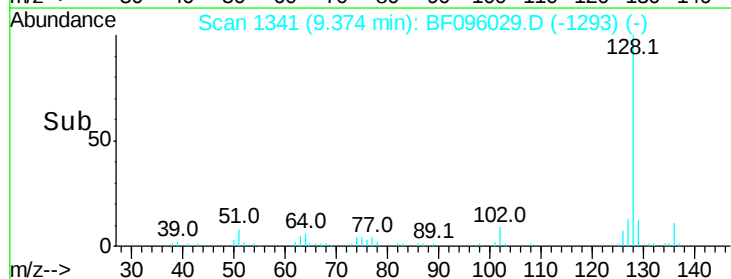
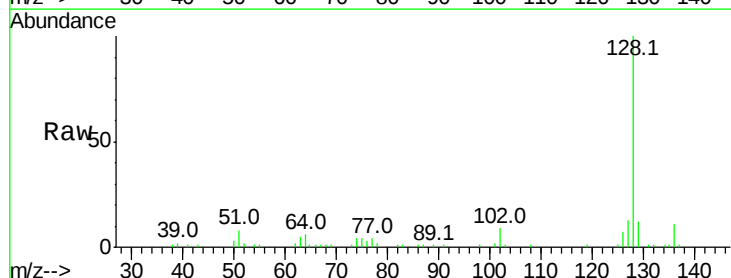
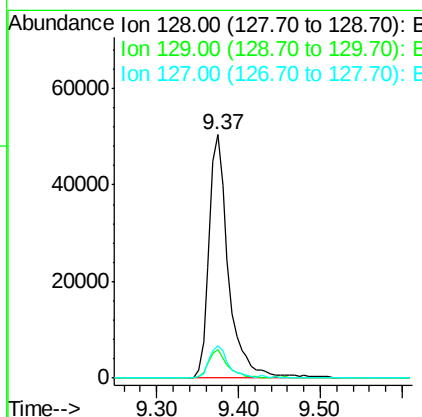
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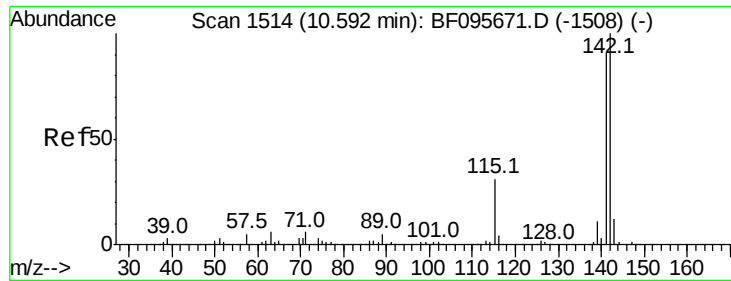
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#31
Naphthalene
Concen: 6.54 ng
RT: 9.37 min Scan# 1341
Delta R.T. -0.02 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.6	9.0	13.6	
127	13.1	10.8	16.2	





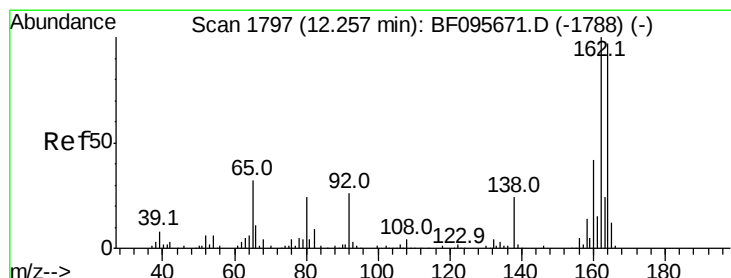
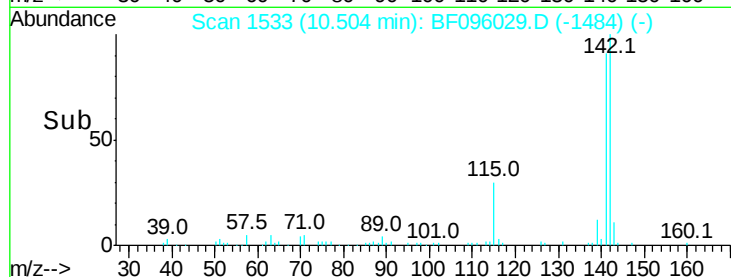
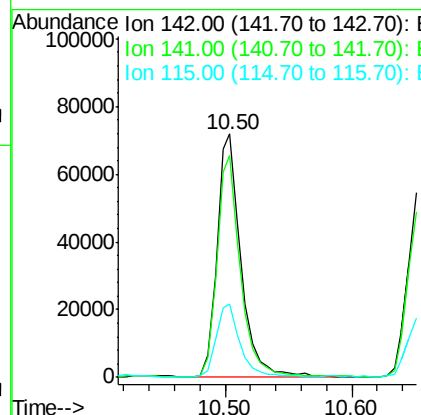
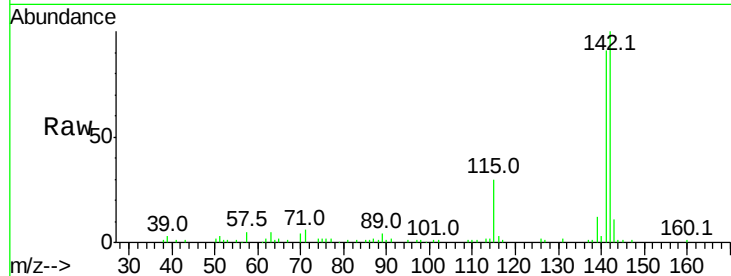
#37
2-Methylnaphthalene
Concen: 10.95 ng
RT: 10.50 min Scan# 1533
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampled :
G11-1.5-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.3	106.9
115	30.3	27.1	40.7

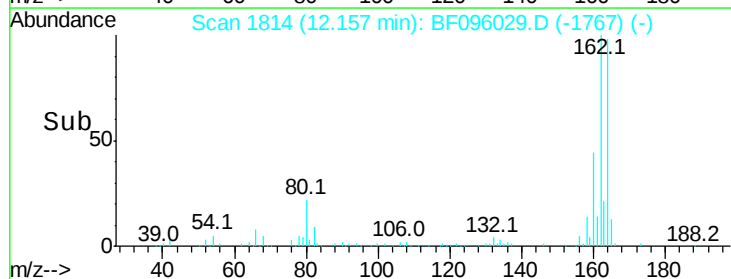
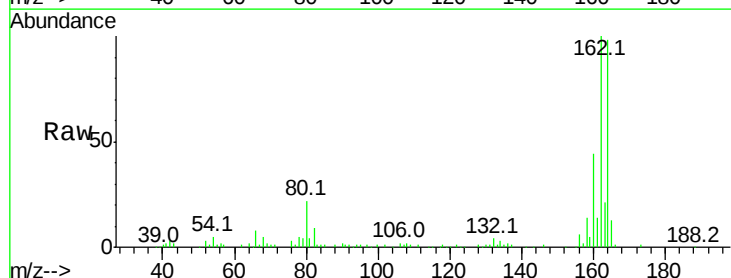
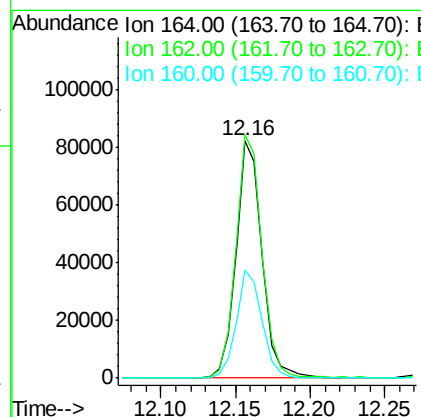
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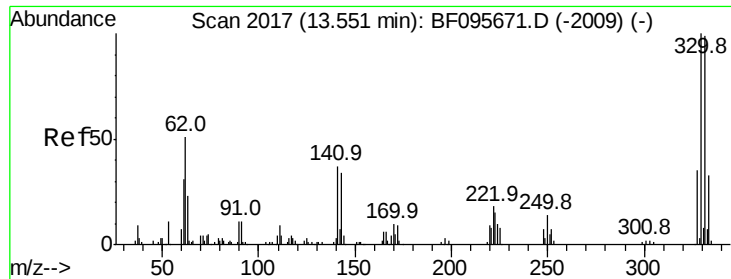
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.16 min Scan# 1814
Delta R.T. -0.02 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.6	123.8
160	45.4	36.2	54.2





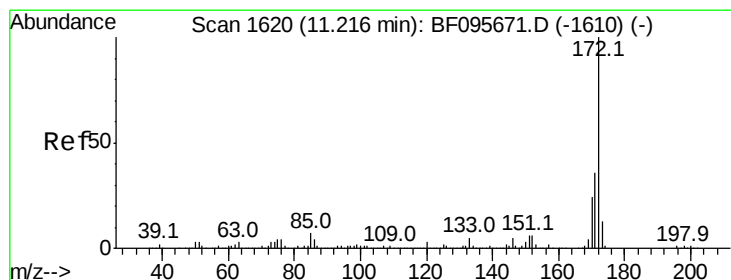
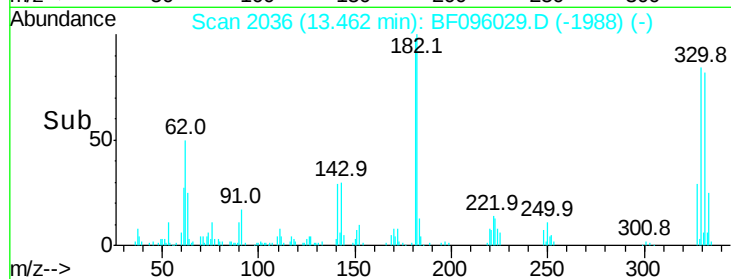
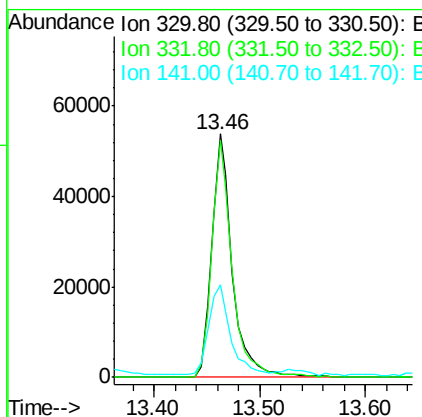
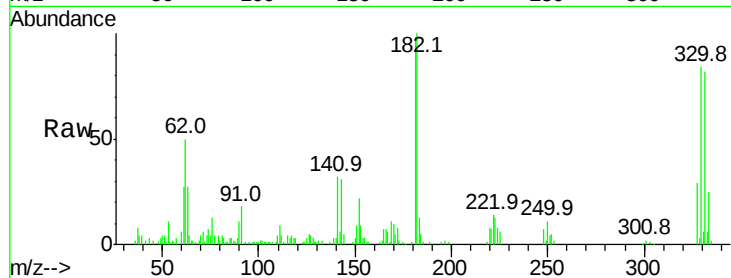
#41
 2,4,6-Tribromophenol
 Concen: 82.86 ng
 RT: 13.46 min Scan# 2036
 Delta R.T. -0.02 min
 Lab File: BF096029.D
 Acq: 20 Jun 2017 5:46

Instrument :
 BNA_F
 ClientSampleId :
 G11-1.5-3

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.6	115.0
141	39.8	31.4	47.2

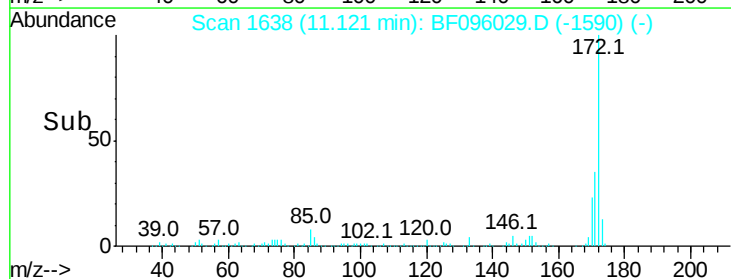
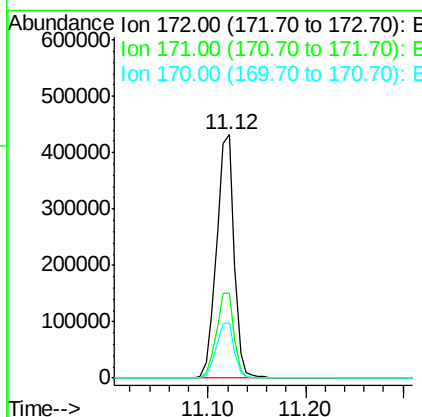
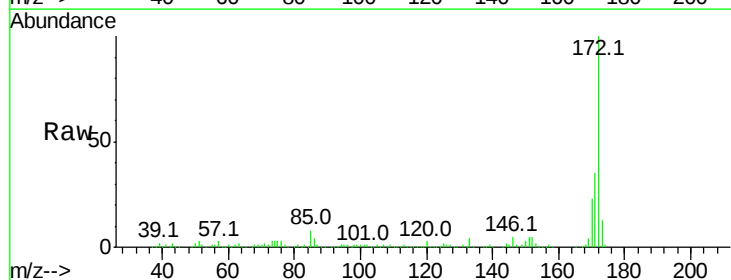
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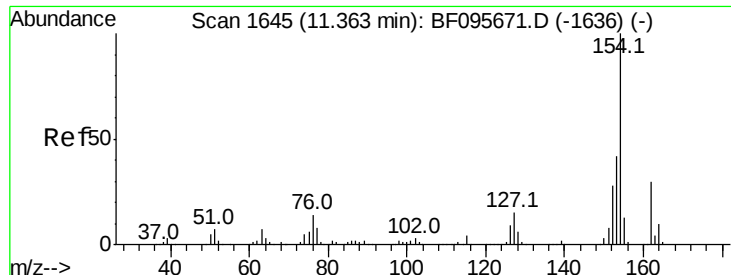
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#44
 2-Fluorobiphenyl
 Concen: 74.46 ng
 RT: 11.12 min Scan# 1638
 Delta R.T. -0.02 min
 Lab File: BF096029.D
 Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.6	44.4
170	22.8	19.8	29.8





#45

1,1'-Biphenyl

Concen: 7.06 ng

RT: 11.27 min Scan# 1663

Delta R.T. -0.02 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Instrument :

BNA_F

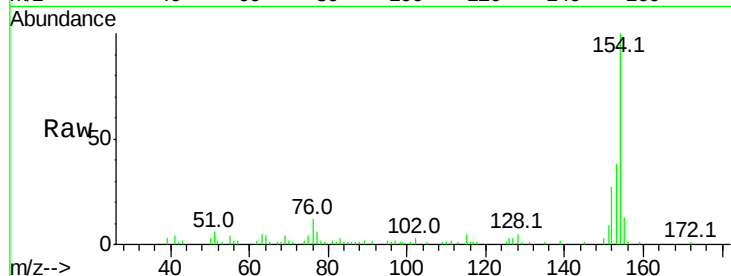
ClientSampleId :

G11-1.5-3

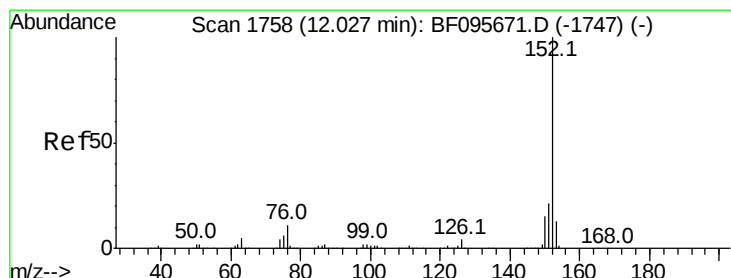
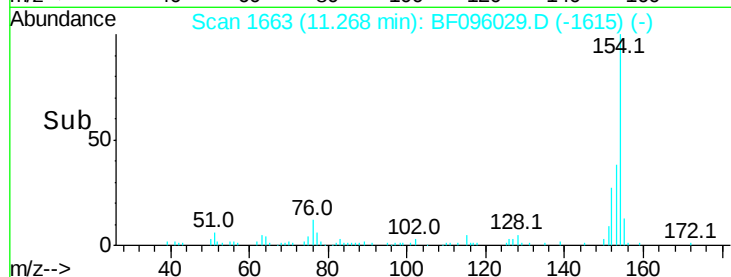
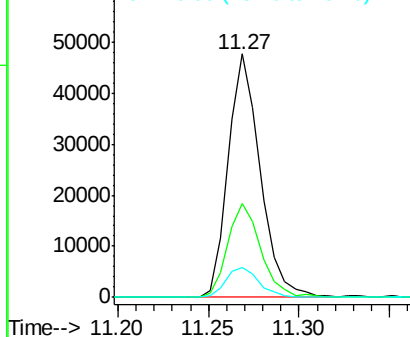
Tot Ion:	154	Resp:	58579
Ion Ratio	Lower	Upper	
154	100		
153	38.4	21.2	61.2
76	12.3	0.0	29.9

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 7.04 ng

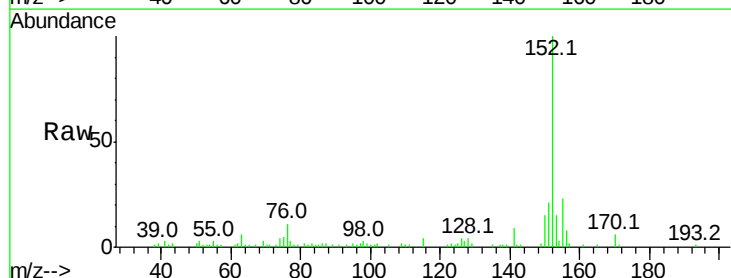
RT: 11.93 min Scan# 1776

Delta R.T. -0.02 min

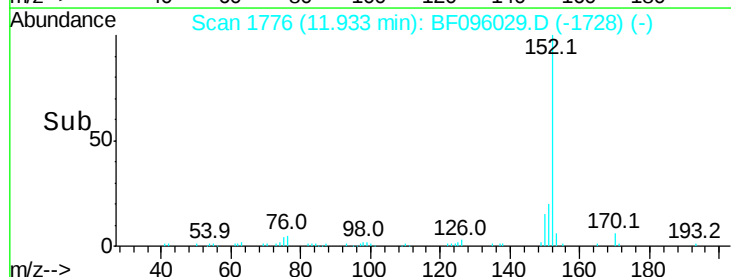
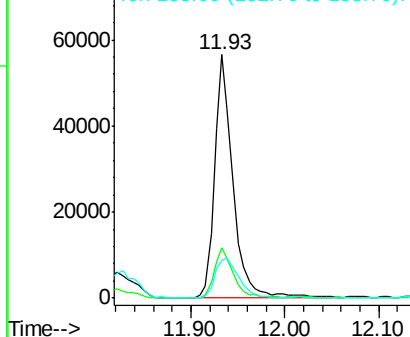
Lab File: BF096029.D

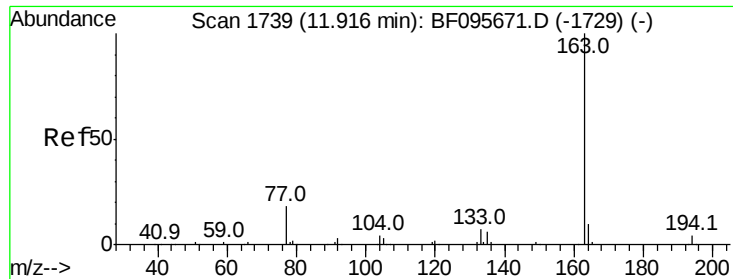
Acq: 20 Jun 2017 5:46

Tgt Ion:	152	Resp:	78043
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.8	25.2
153	15.4	10.8	16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





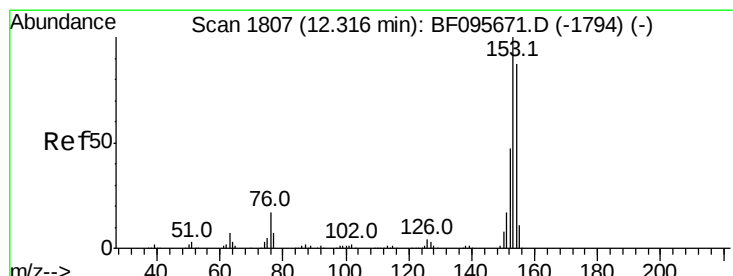
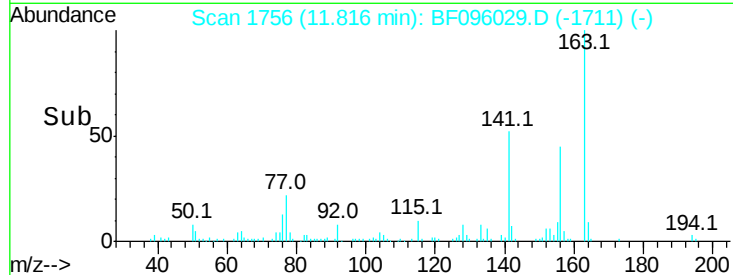
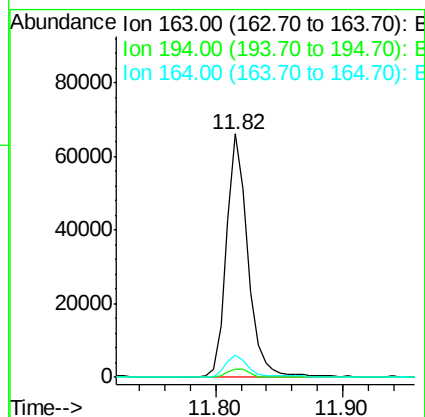
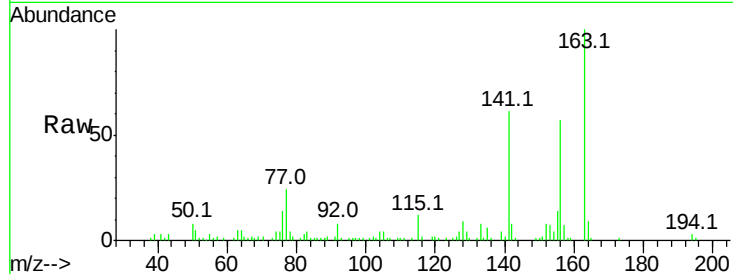
#49
Dimethylphthalate
Concen: 10.14 ng
RT: 11.82 min Scan# 1756
Delta R.T. -0.04 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampled :
G11-1.5-3

Tot Ion	Ratio	Resp	Lower	Upper
163	100	77439		
194	3.2		2.6	4.0
164	9.2		8.4	12.6

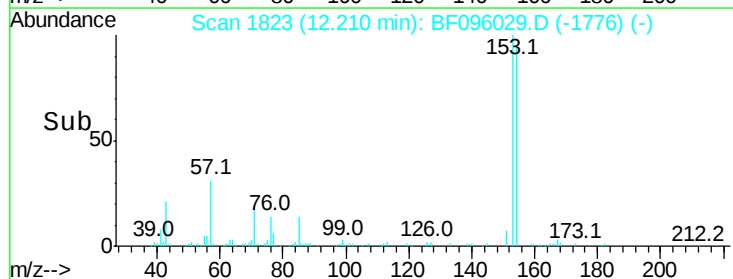
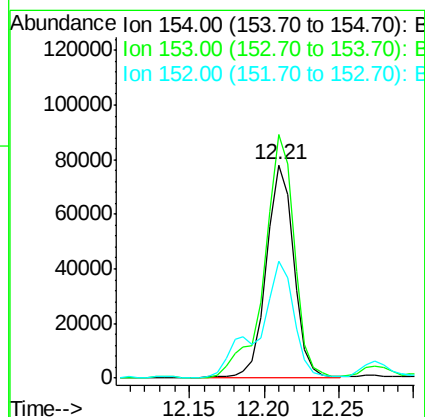
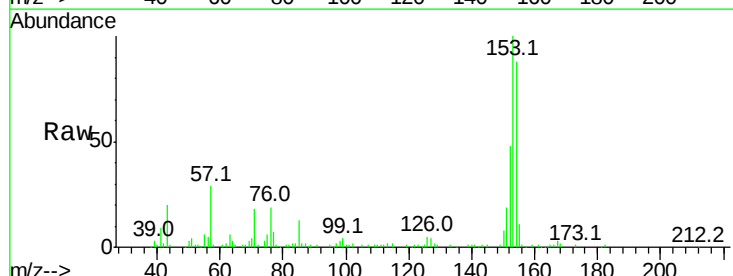
Manual Integrations
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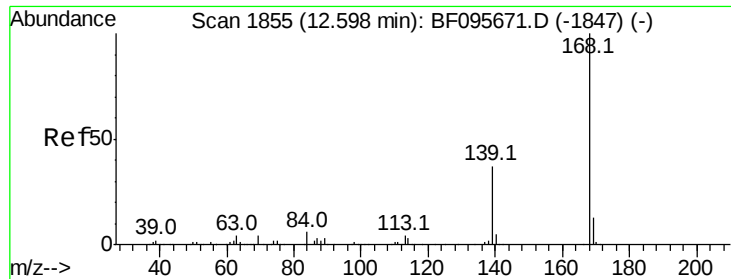
mohammad
6/20/2017 4:29:43 PM



#51
Acenaphthene
Concen: 15.59 ng
RT: 12.21 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	99738		
153	114.2		90.5	135.7
152	54.8		43.6	65.4





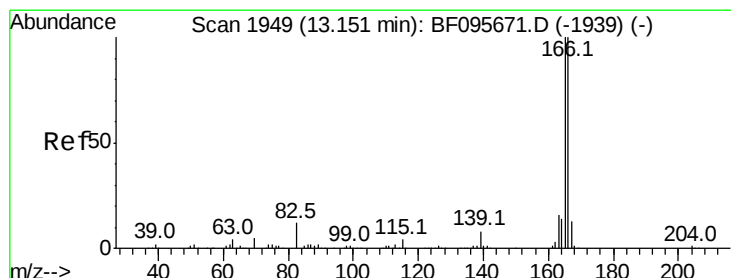
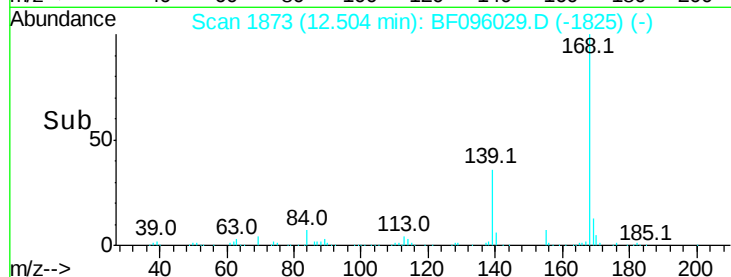
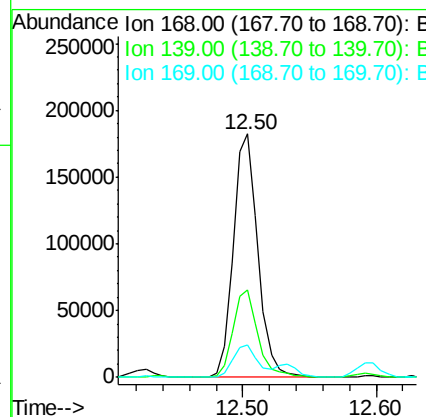
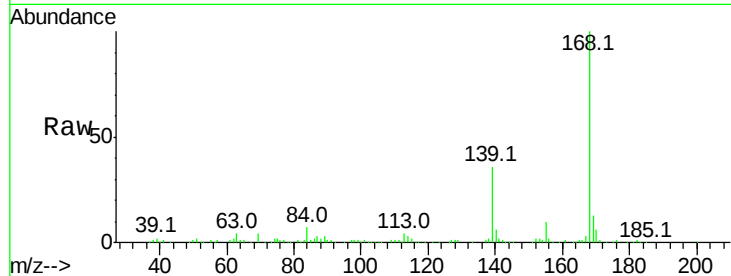
#54
Dibenzenofuran
Concen: 26.10 ng
RT: 12.50 min Scan# 1873
Delta R.T. -0.02 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampled :
G11-1.5-3

Tot Ion	Ratio	Resp Lower	Upper
168	100		
139	36.1	30.6	45.8
169	13.2	10.8	16.2

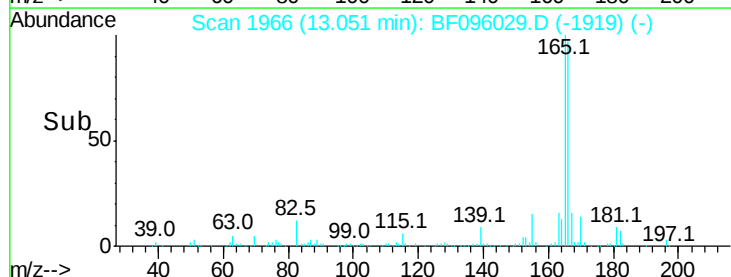
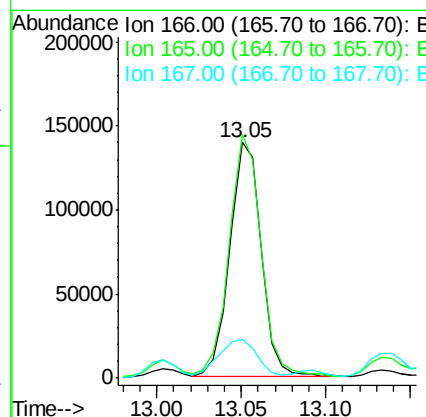
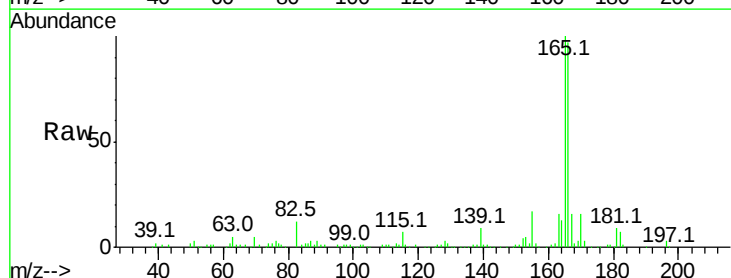
Manual Integrations
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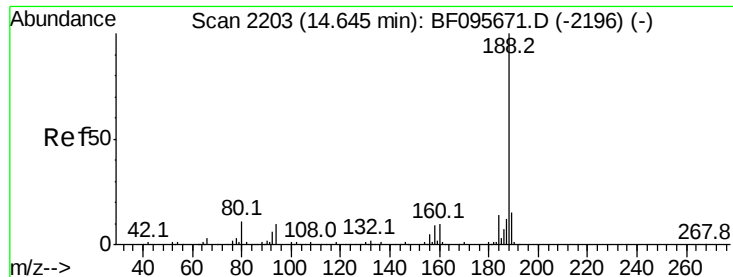
mohammad
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#57
Fluorene
Concen: 22.94 ng
RT: 13.05 min Scan# 1966
Delta R.T. -0.02 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Resp Lower	Upper
166	100		
165	103.3	78.8	118.2
167	16.3	10.6	16.0#





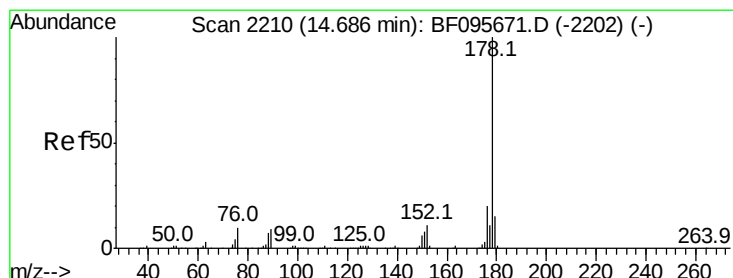
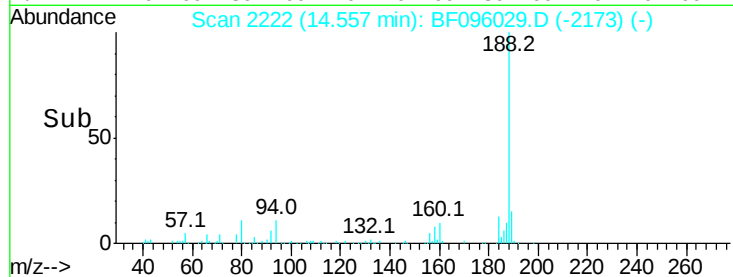
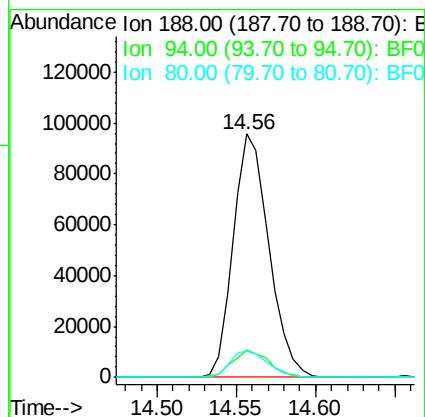
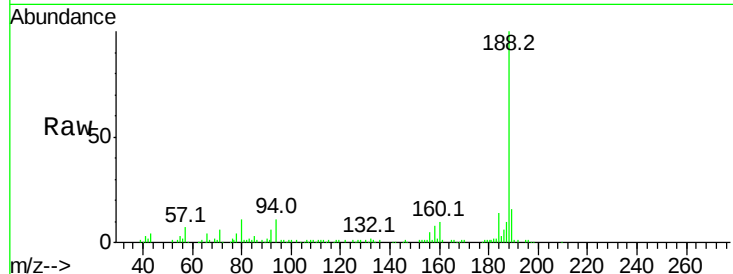
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.56 min Scan# 2222
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampleId :
G11-1.5-3

Tot Ion	Ratio	Resp	Lower	Upper
188	100	148987		
94	11.2		9.4	14.2
80	10.7		10.2	15.2

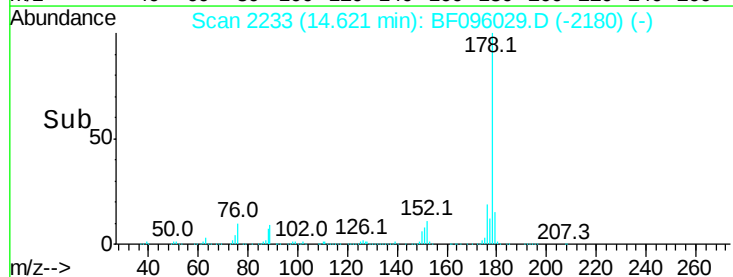
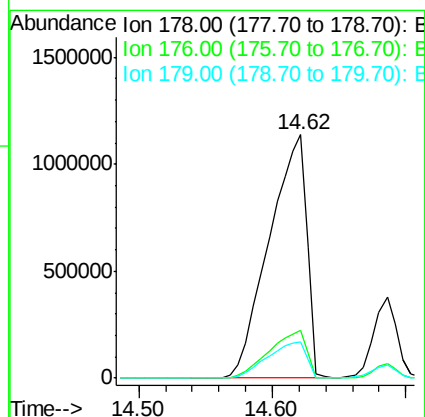
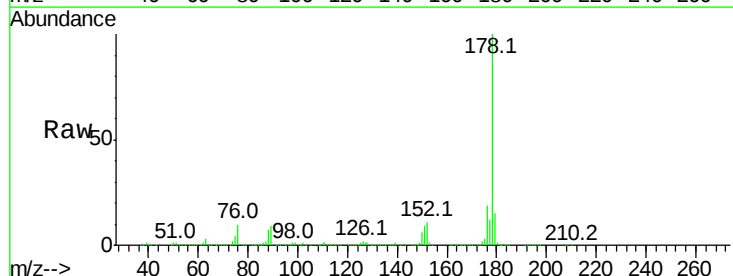
Manual Integrations
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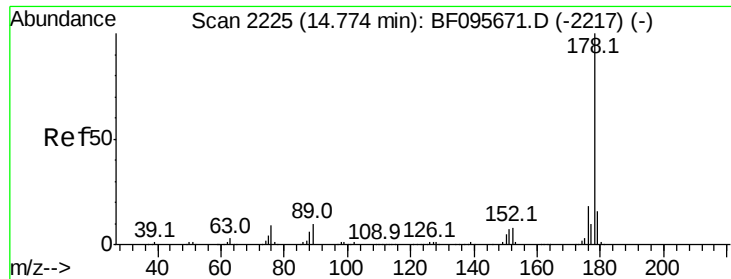
mohammad
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#70
Phenanthrene
Concen: 260.21 ng
RT: 14.62 min Scan# 2233
Delta R.T. 0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2236823		
176	19.5		16.2	24.4
179	15.0		12.6	19.0





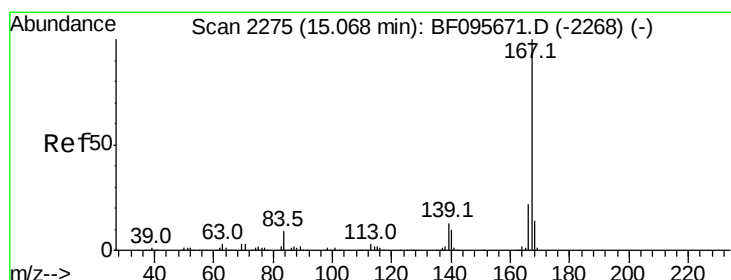
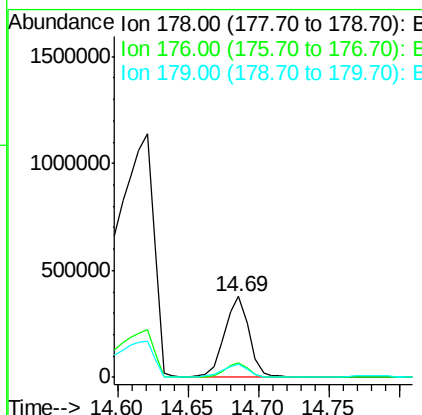
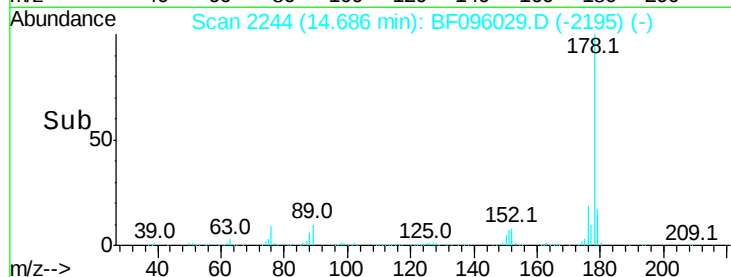
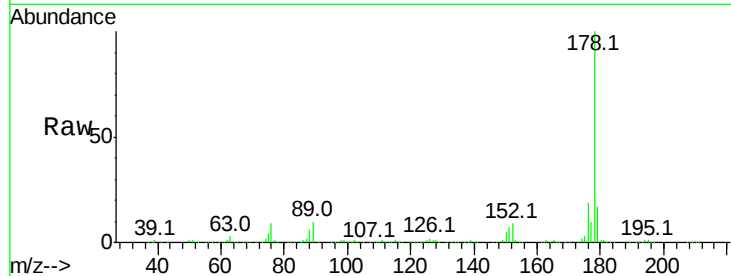
#71
 Anthracene
 Concen: 50.34 ng
 RT: 14.69 min Scan# 2244
 Delta R.T. -0.01 min
 Lab File: BF096029.D
 Acq: 20 Jun 2017 5:46

Instrument :
 BNA_F
 ClientSampled :
 G11-1.5-3

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	16.9	12.7	19.1

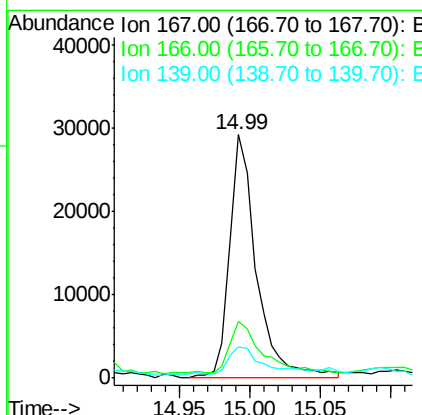
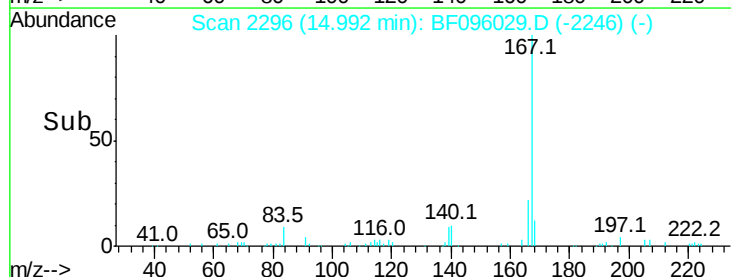
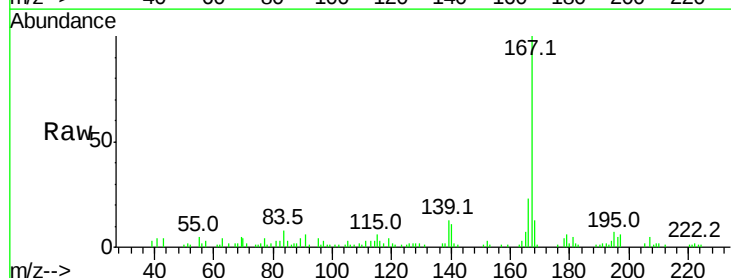
Manual Integrations
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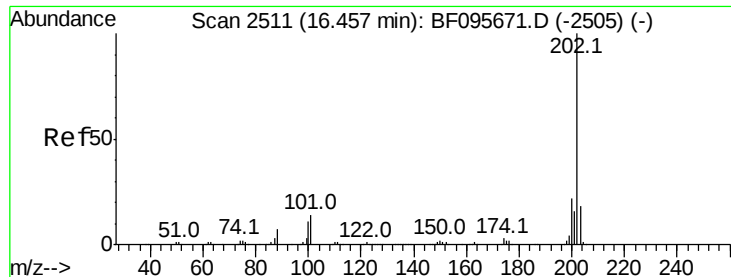
mohammad
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#72
 Carbazole
 Concen: 4.47 ng
 RT: 14.99 min Scan# 2296
 Delta R.T. -0.01 min
 Lab File: BF096029.D
 Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.4	18.1	27.1
139	13.0	11.7	17.5





#74

Fluoranthene

Concen: 236.95 ng

RT: 16.40 min Scan# 2536

Delta R.T. 0.01 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Instrument :

BNA_F

ClientSampled :

G11-1.5-3

Tot Ion:202 Resp: 2016069

Ion Ratio Lower Upper

202 100

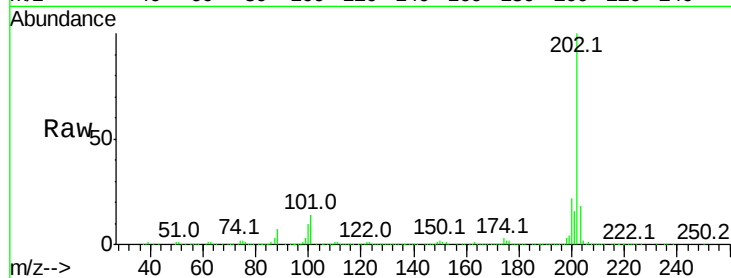
101 14.2 0.0 33.2

203 17.9 0.0 38.1

Manual Integrations
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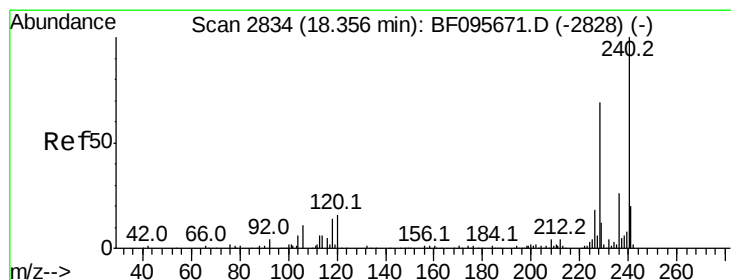
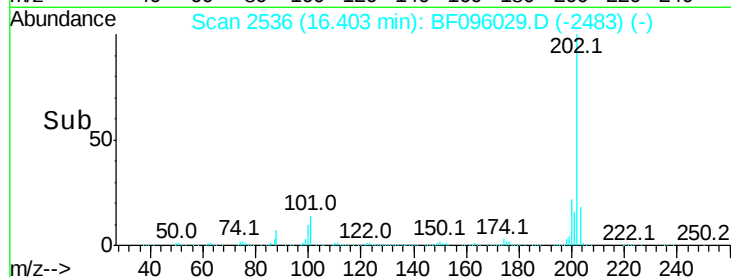
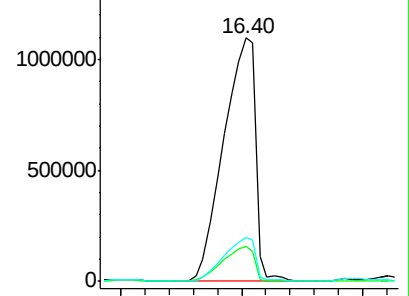
6/20/2017 4:29:43 PM



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.29 min Scan# 2857

Delta R.T. -0.01 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

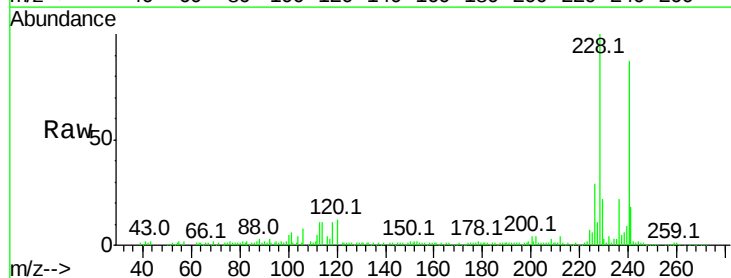
Tgt Ion:240 Resp: 120517

Ion Ratio Lower Upper

240 100

120 14.1 5.8 8.8#

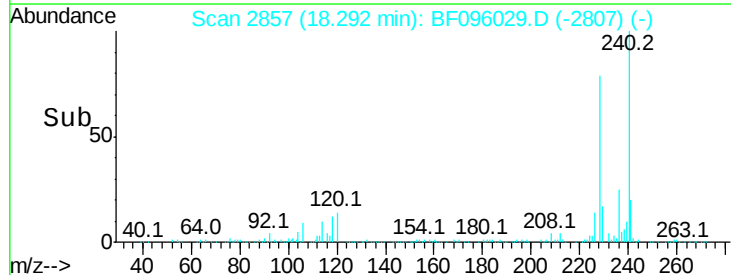
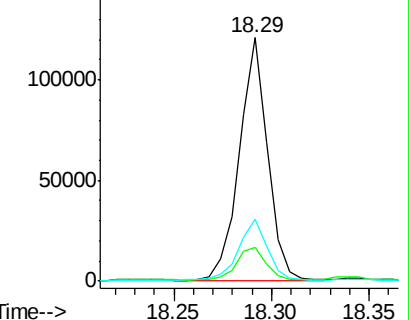
236 25.2 20.5 30.7

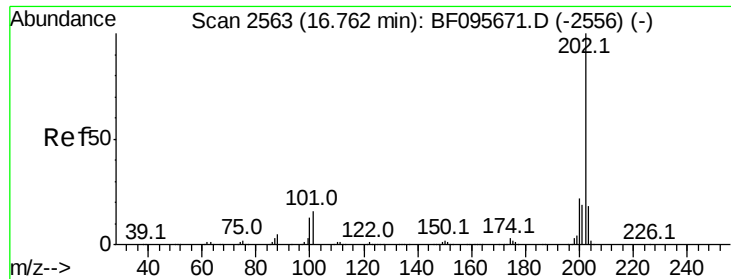


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





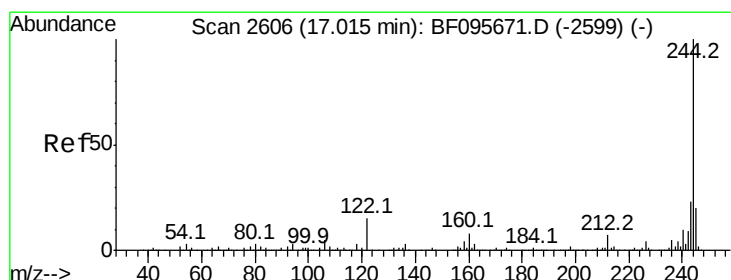
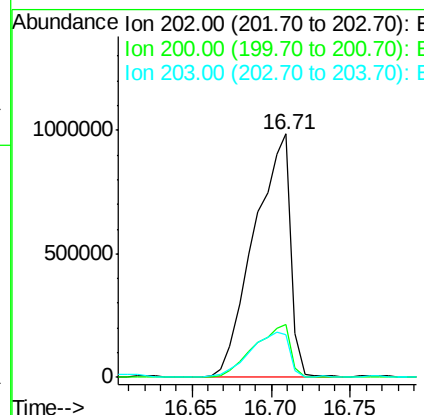
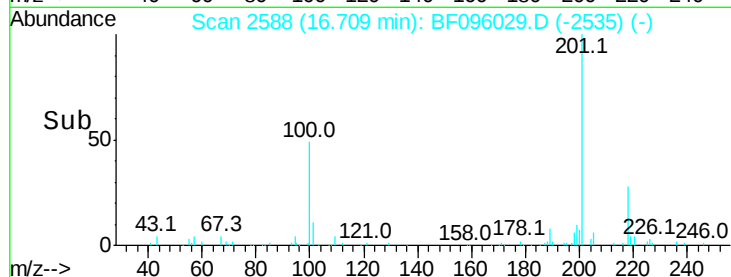
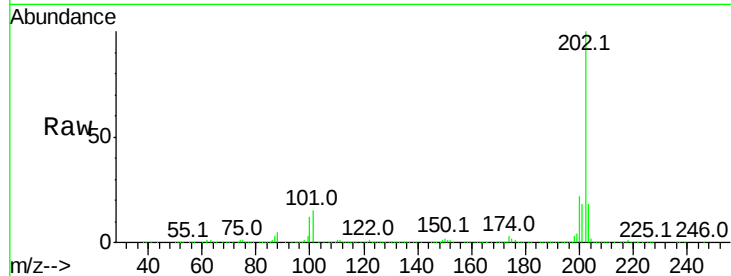
#77
Pvrene
Concen: 174.36 ng
RT: 16.71 min Scan# 2588
Delta R.T. 0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampled :
G11-1.5-3

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	17.7	14.4	21.6

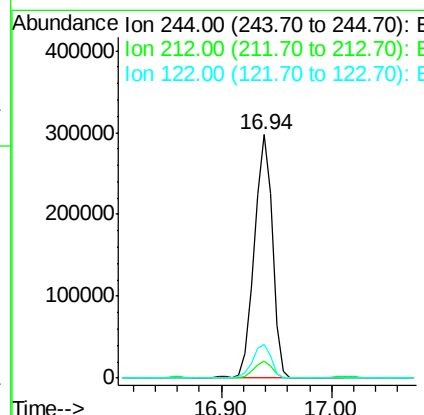
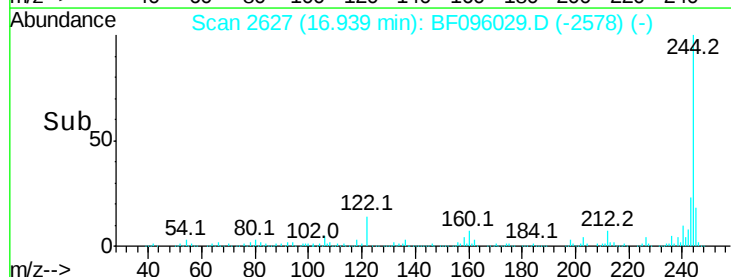
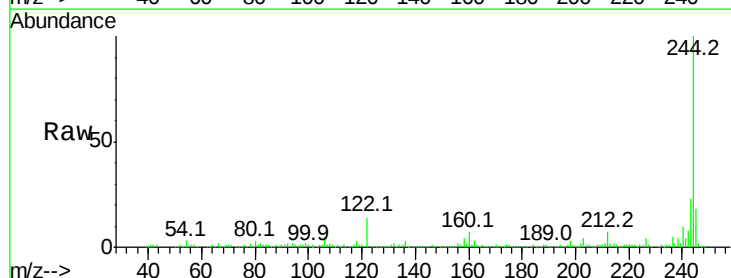
Manual Integrations
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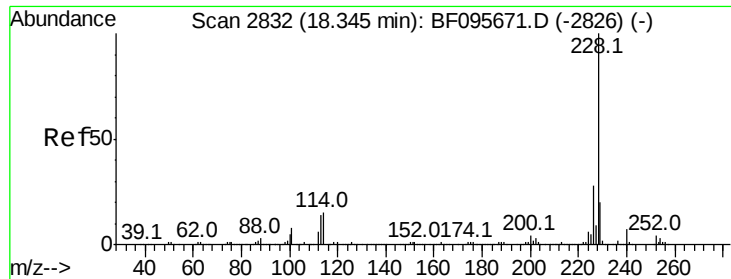
mohammad
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#78
Terphenyl-d14
Concen: 70.89 ng
RT: 16.94 min Scan# 2627
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	14.1	10.3	15.5





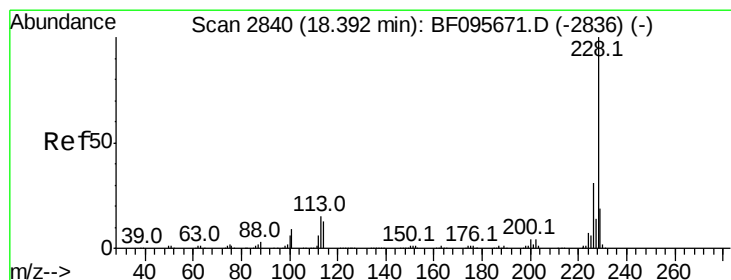
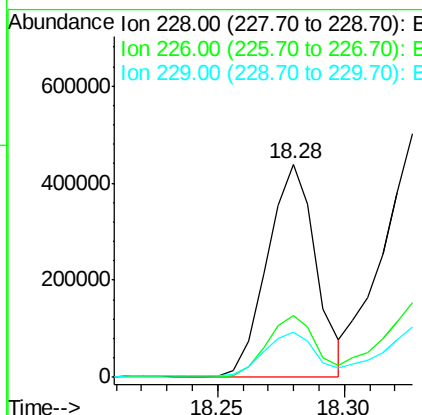
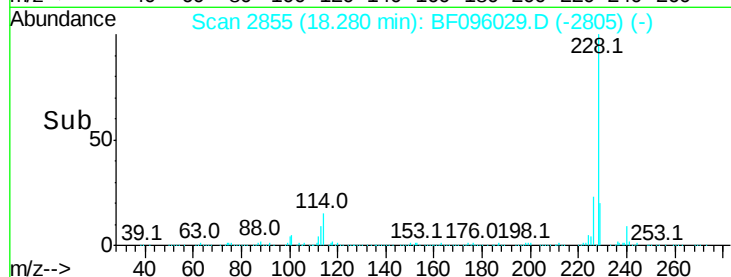
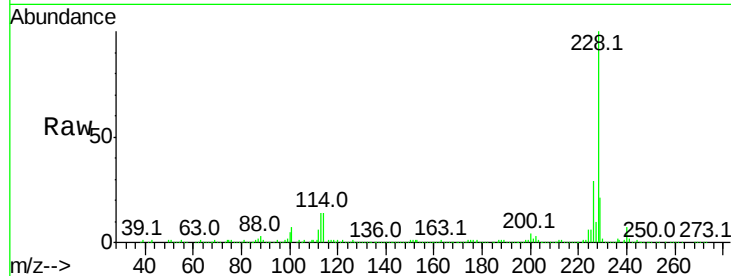
#80
Benzo(a)anthracene
Concen: 83.63 ng
RT: 18.28 min Scan# 2855
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampleId :
G11-1.5-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	21.2	16.3	24.5

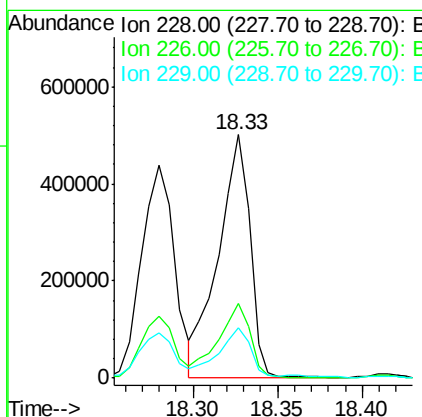
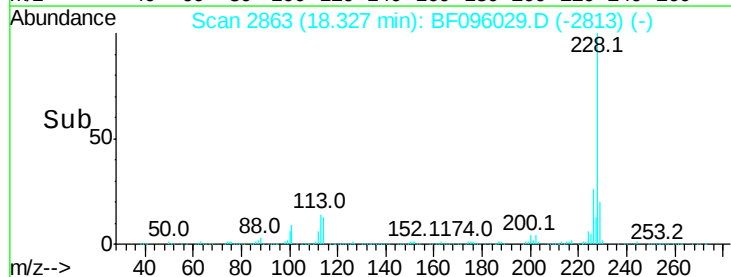
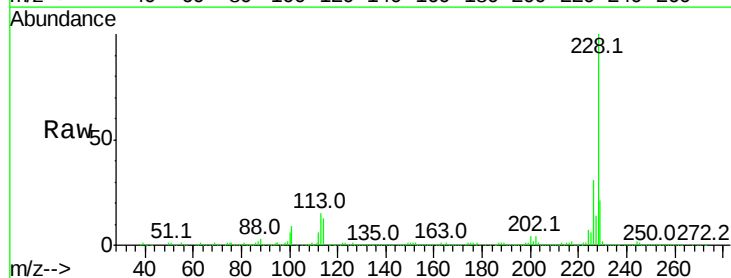
Manual Integrations
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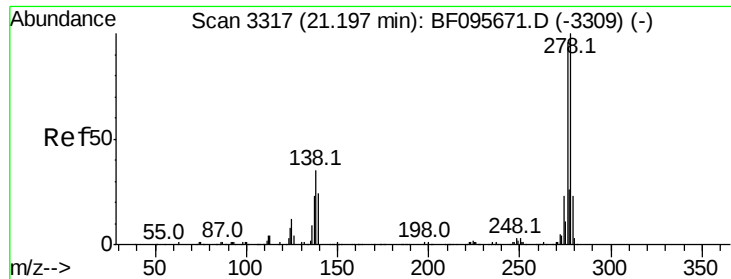
mohammad
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#82
Chrysene
Concen: 92.72 ng
RT: 18.33 min Scan# 2863
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.9	37.3
229	20.7	15.8	23.6





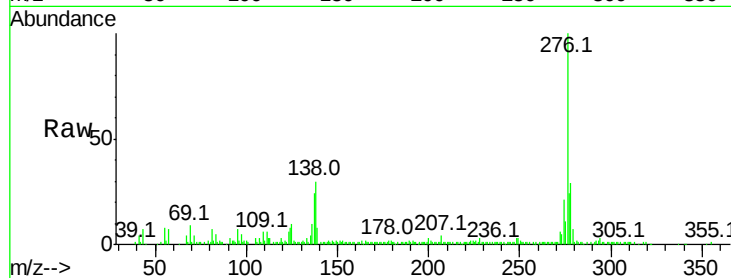
#85
Indeno(1,2,3-cd)pyrene
Concen: 19.42 ng
RT: 21.12 min Scan# 3338
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
ClientSampleId :
G11-1.5-3

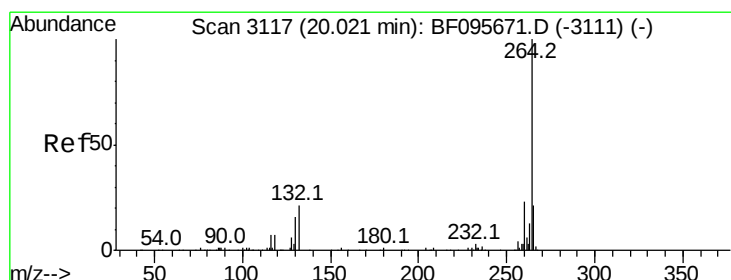
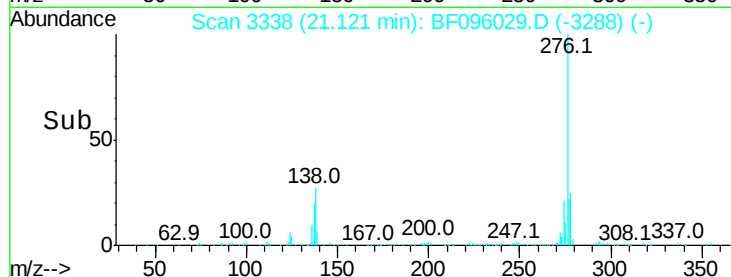
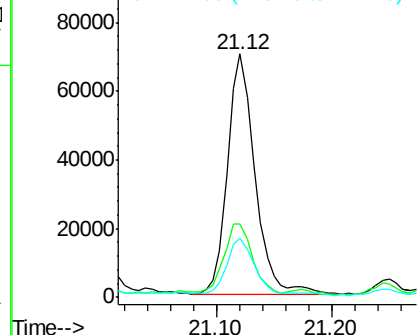
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.8	27.8	41.6
277	22.0	20.2	30.4

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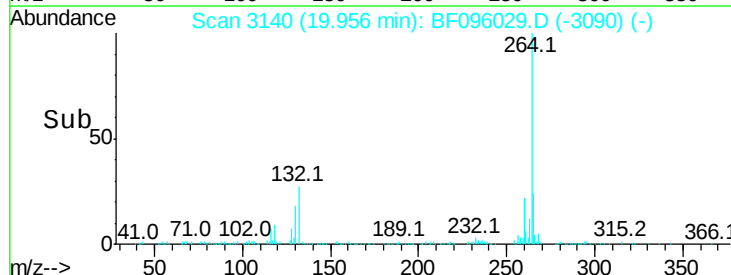
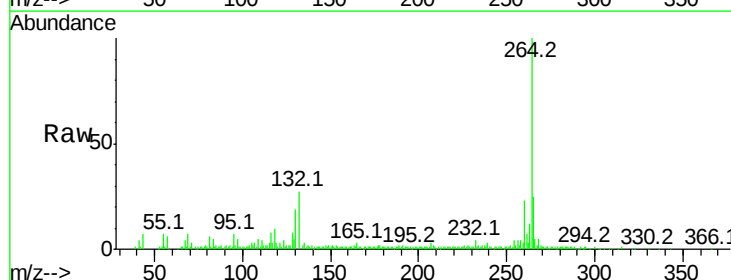
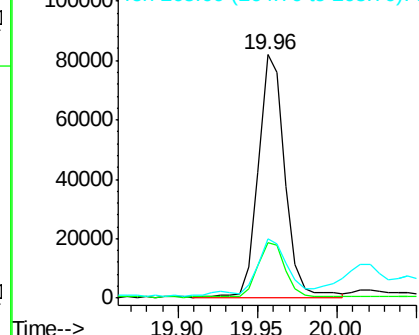
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

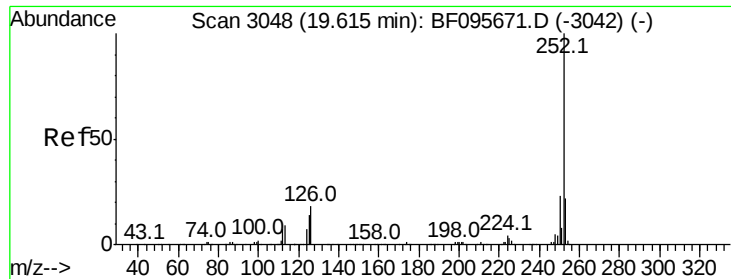


#86
Perylene-d12
Concen: 20.00 ng
RT: 19.96 min Scan# 3140
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.5	29.3
265	24.6	17.2	25.8

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 81.72 ng m

RT: 19.56 min Scan# 3072

Delta R.T. 0.00 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Instrument :

BNA_F

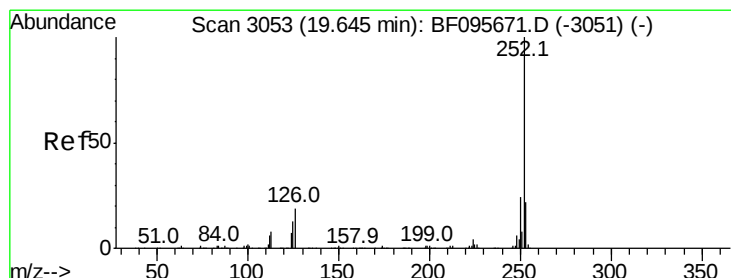
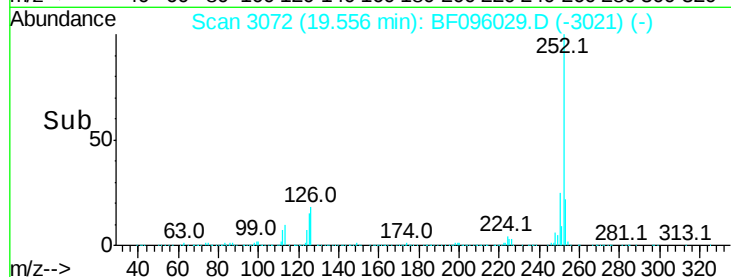
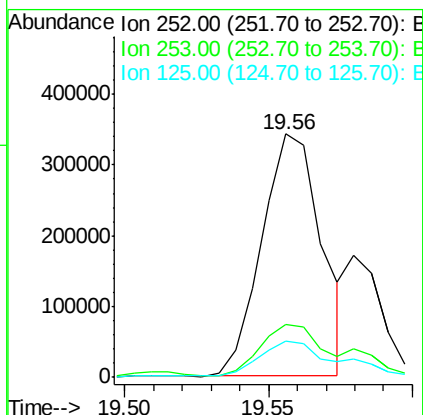
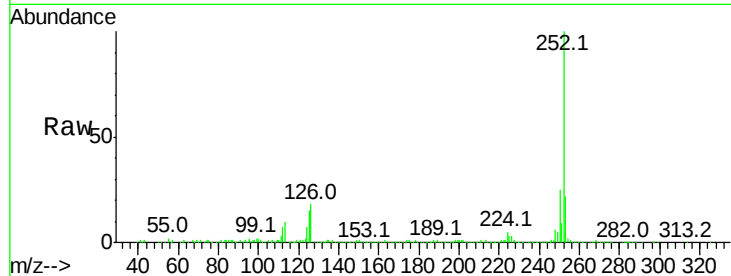
ClientSampleId :

G11-1.5-3

Tot Ion:	252	Resp:	494761
Ion Ratio	Lower	Upper	
252	100		
253	21.9	18.1	27.1
125	15.0	9.8	14.8

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 24.47 ng m

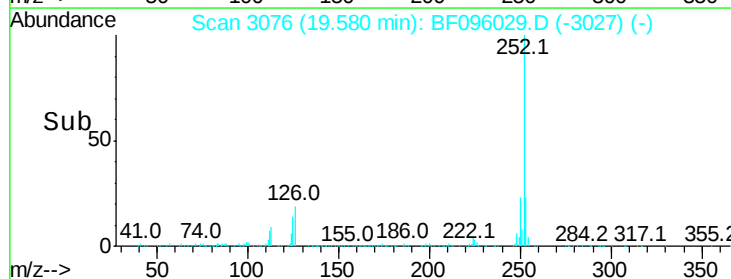
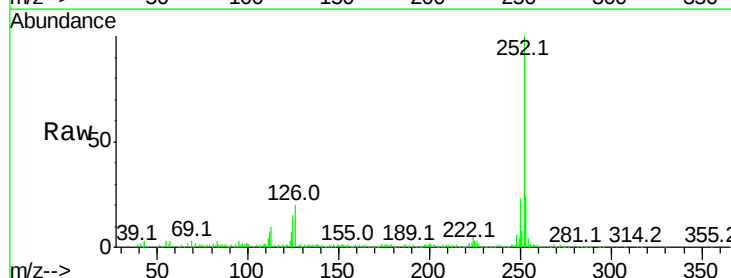
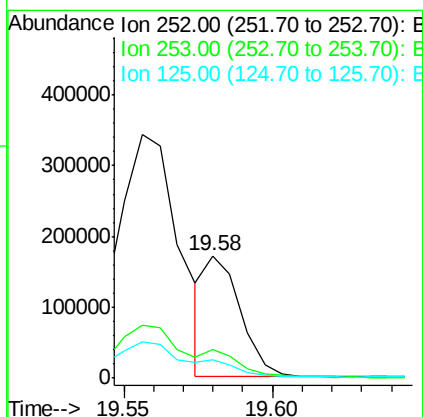
RT: 19.58 min Scan# 3076

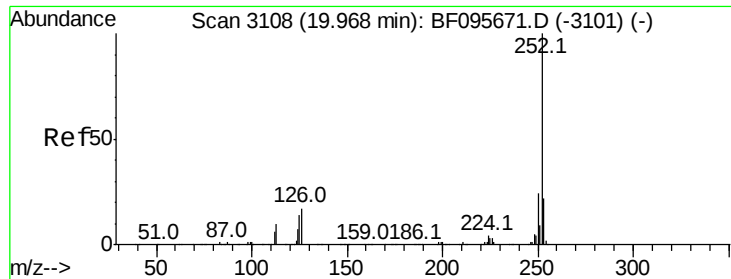
Delta R.T. -0.01 min

Lab File: BF096029.D

Acq: 20 Jun 2017 5:46

Tgt Ion:	252	Resp:	141608
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.4	27.6
125	14.8	13.1	19.7





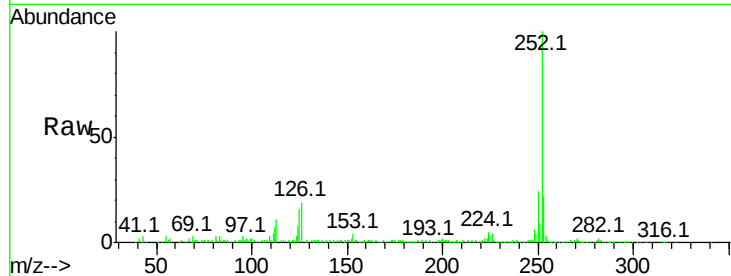
#89
Benzo(a)pyrene
Concen: 34.38 ng
RT: 19.90 min Scan# 3131
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Instrument :
BNA_F
Client Sampled :
G11-1.5-3

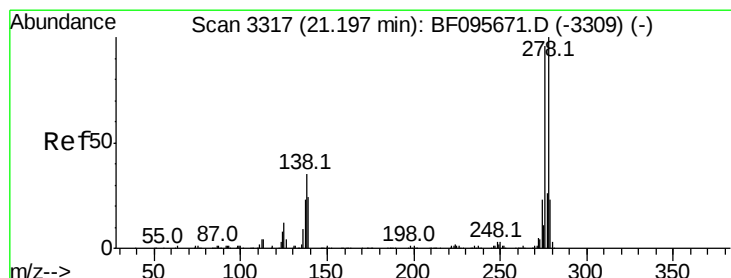
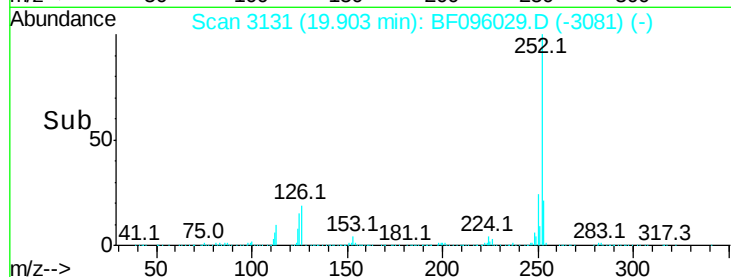
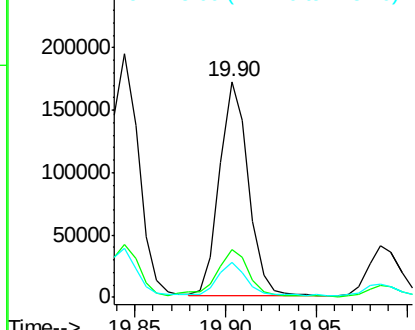
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	16.0	11.0	16.4

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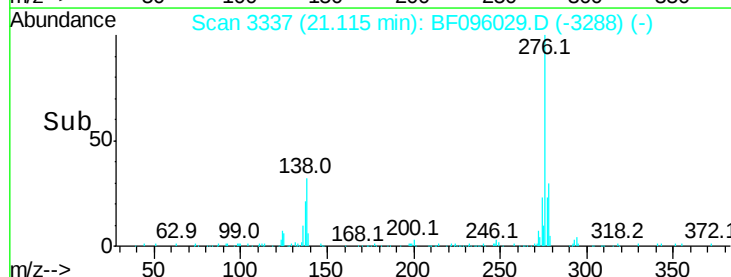
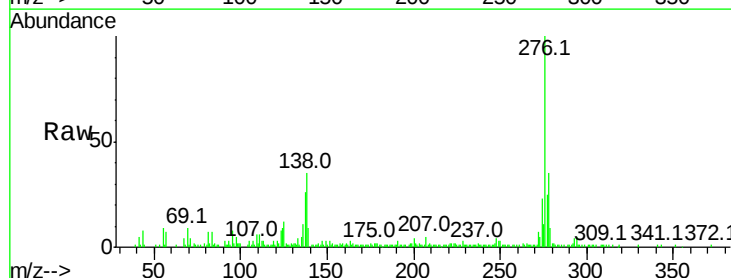
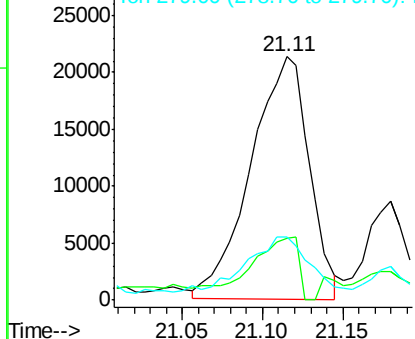
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

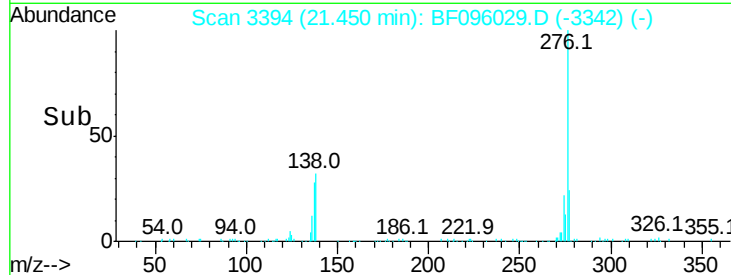
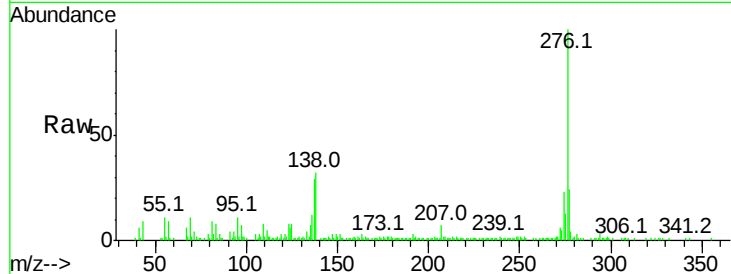
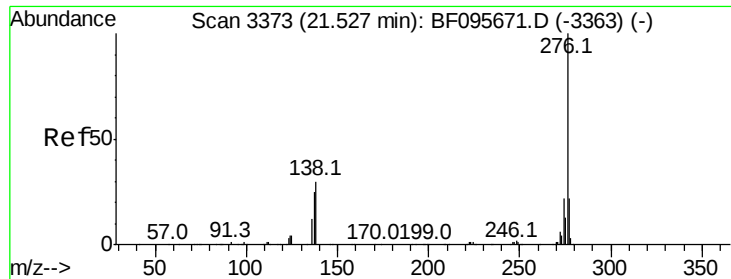


#90
Dibenzo(a,h)anthracene
Concen: 11.42 ng m
RT: 21.11 min Scan# 3337
Delta R.T. -0.01 min
Lab File: BF096029.D
Acq: 20 Jun 2017 5:46

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.5	16.6	24.8#
279	25.9	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(a,h,i)perylene
 Concen: 19.31 ng
 RT: 21.45 min Scan# 3394
 Delta R.T. 0.01 min
 Lab File: BF096029.D
 Acq: 20 Jun 2017 5:46

Instrument :
 BNA_F
 ClientSampleId :
 G11-1.5-3

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	32.0	25.4	38.0

Manual Integrations
 APPROVED

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