

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072717\
 Data File : BF097122.D
 Acq On : 27 Jul 2017 15:05
 Operator : SJ/JU
 Sample : I4421-01 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-M6-ESW

Manual Integrations
 APPROVED

Sohil
 7/28/2017 4:46:44 PM

Quant Time: Jul 27 16:22:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	93933	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	373247	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	121799	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	190788	20.00	ng	-0.01
75) Chrysene-d12	13.63	240	137895	20.00	ng	0.00
86) Perylene-d12	15.01	264	97397	20.00	ng	0.04

System Monitoring Compounds

5) 2-Fluorophenol	5.08	112	304622	48.89	ng	-0.02
7) Phenol-d6	6.15	99	341056	47.94	ng	-0.02
23) Nitrobenzene-d5	7.05	82	218490	34.34	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	46787	48.62	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	294556	41.04	ng	-0.02
78) Terphenyl-d14	12.58	244	177127	26.19	ng	0.00

Target Compounds

						Qvalue
11) bis(2-Chloroethyl)ether	6.23	93	842461	126.240	ng	88
13) 1,4-Dichlorobenzene	6.50	146	38375	5.393	ng	94
14) 1,2-Dichlorobenzene	6.66	146	96832	15.585	ng	98
31) Naphthalene	7.79	128	57241	3.253	ng	99
37) 2-Methylnaphthalene	8.49	142	67985	6.103	ng	98
49) Dimethylphthalate	9.25	163	28285	3.058	ng	# 83
70) Phenanthrene	11.02	178	53820	5.265	ng	# 95
71) Anthracene	11.06	178	21133	2.018	ng	# 79
74) Fluoranthene	12.20	202	92345	9.221	ng	96
77) Pyrene	12.43	202	100270	8.882	ng	96
80) Benzo(a)anthracene	13.62	228	40990	4.594	ng	# 76
82) Chrysene	13.66	228	40301	4.626	ng	# 84
85) Indeno(1,2,3-cd)pyrene	16.24	276	20753	2.778	ng	96
87) Benzo(b)fluoranthene	14.64	252	34609m	5.911	ng	
88) Benzo(k)fluoranthene	14.65	252	15498m	2.778	ng	
89) Benzo(a)pyrene	14.96	252	23442	4.375	ng	# 1
91) Benzo(a,h,i)perylene	16.61	276	24503	5.317	ng	# 65

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

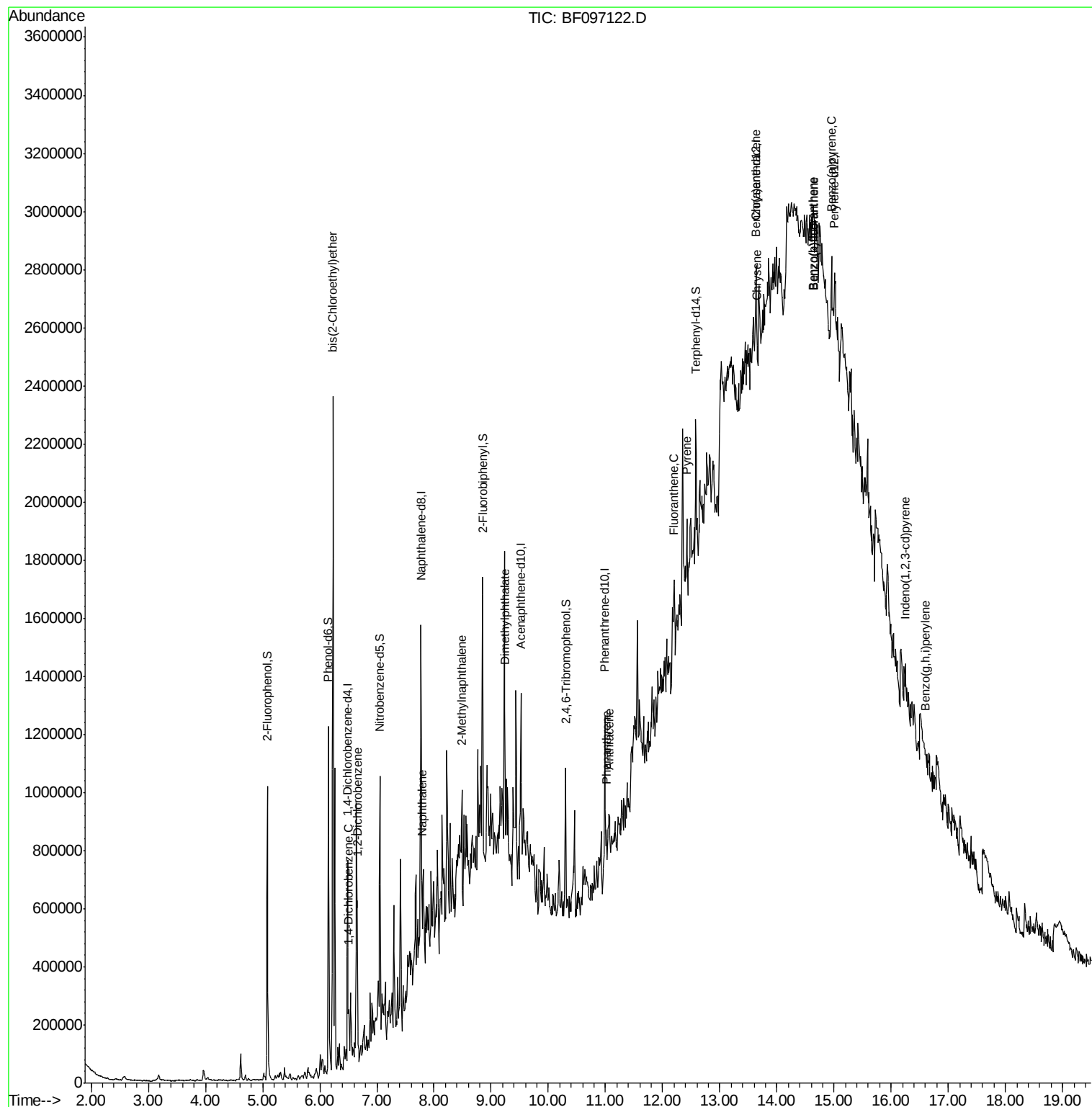
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072717\
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ALS Vial : 6 Sample Multiplier: 1

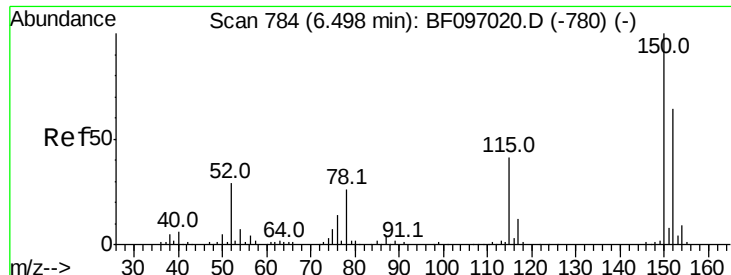
Instrument :
BNA_F
ClientSampled :
E2-M6-ESW

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#1

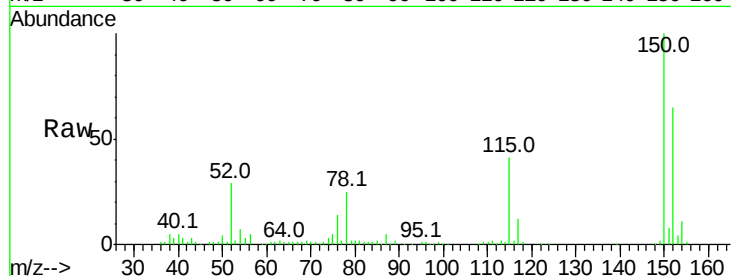
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Instrument :
BNA_F
ClientSampleId :
E2-M6-ESW

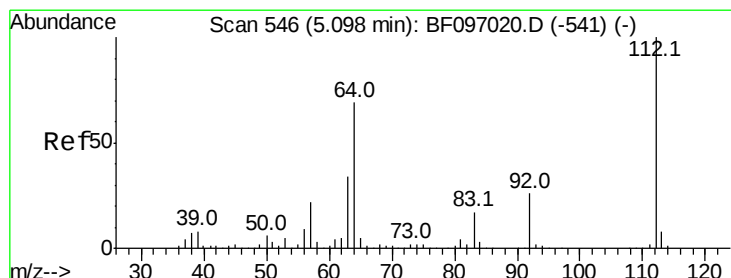
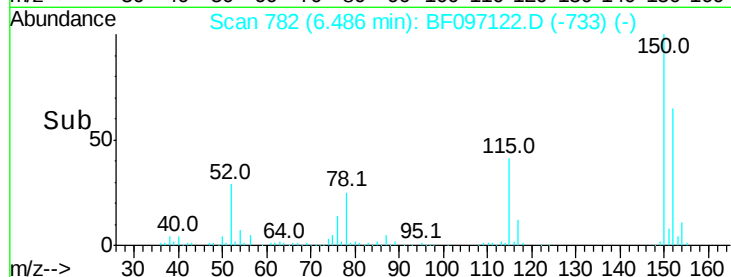
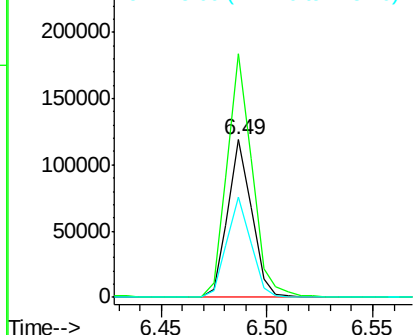
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	126.2	189.2
115	63.2	52.2	78.2

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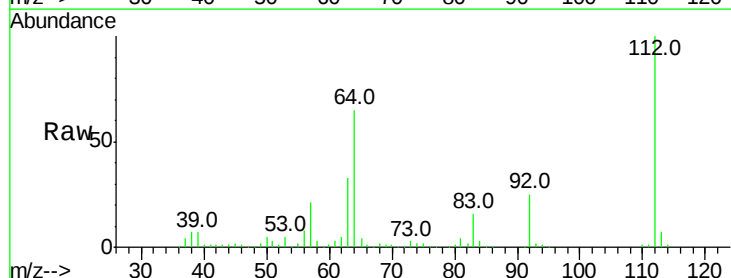
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



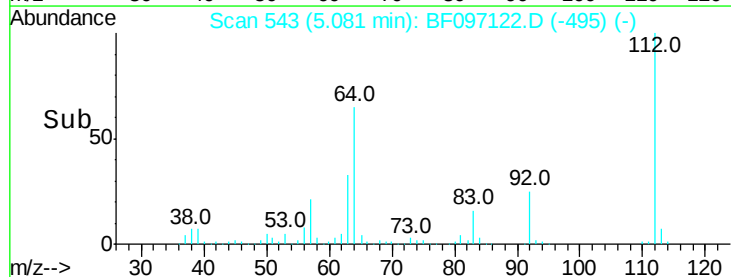
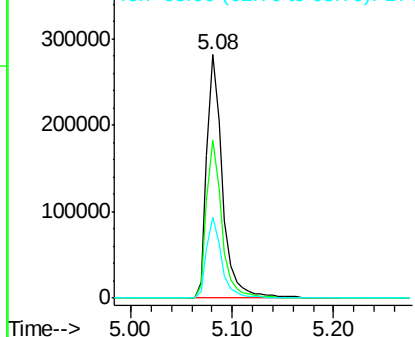
#5

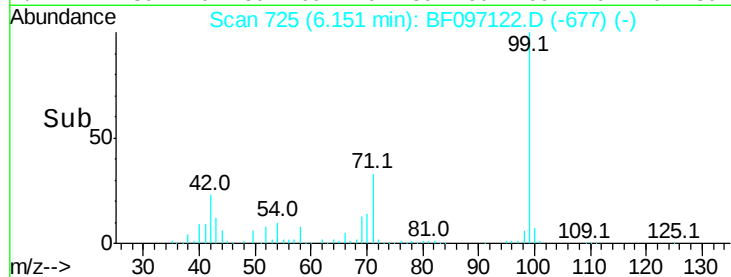
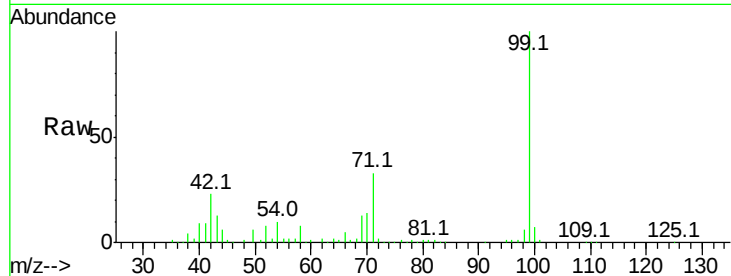
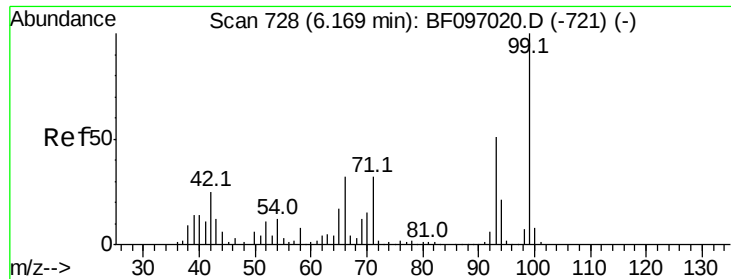
2-Fluorophenol
Concen: 48.887 ng
RT: 5.08 min Scan# 543
Delta R.T. -0.02 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.6	46.0	69.0
63	33.0	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: 47.945 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Tot Ion:	99	Resp:	341056
Ion Ratio	Lower	Upper	
99	100		
42	23.4	13.5	20.3#
71	32.7	24.5	36.7

Instrument :

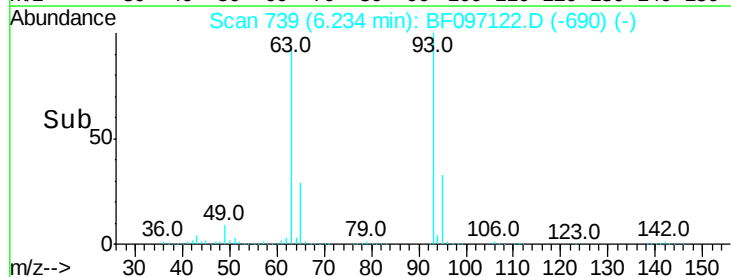
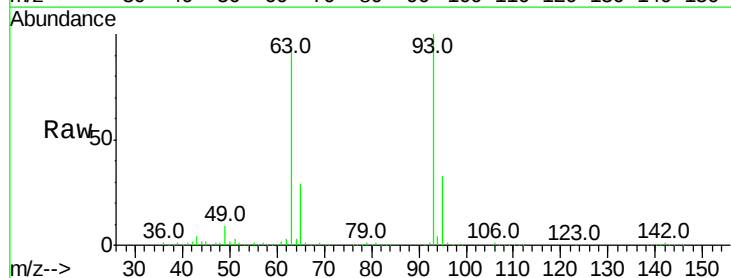
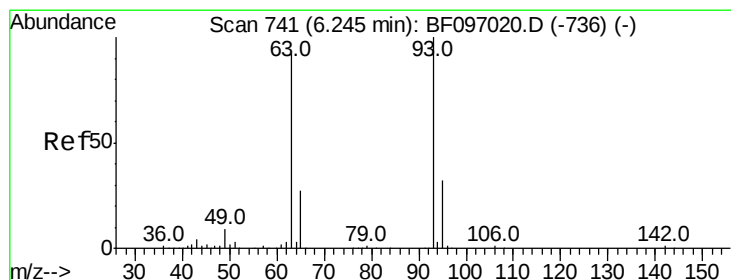
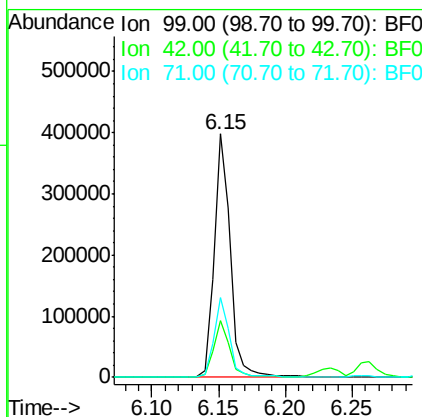
BNA_F

ClientSampled :

E2-M6-ESW

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#11

bis(2-Chloroethyl)ether

Concen: 126.240 ng

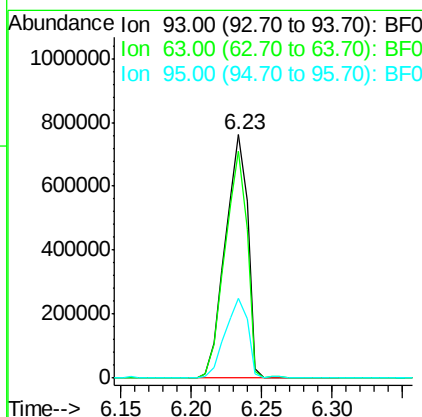
RT: 6.23 min Scan# 739

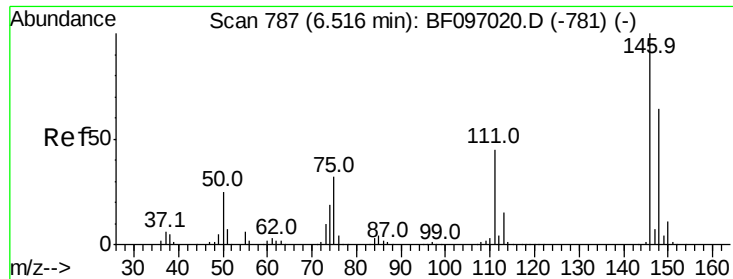
Delta R.T. -0.01 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Tgt Ion:	93	Resp:	842461
Ion Ratio	Lower	Upper	
93	100		
63	93.4	59.2	99.2
95	33.0	12.8	52.8





#13

1,4-Dichlorobenzene

Concen: 5.393 ng

RT: 6.50 min Scan# 785

Delta R.T. -0.01 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Instrument :

BNA_F

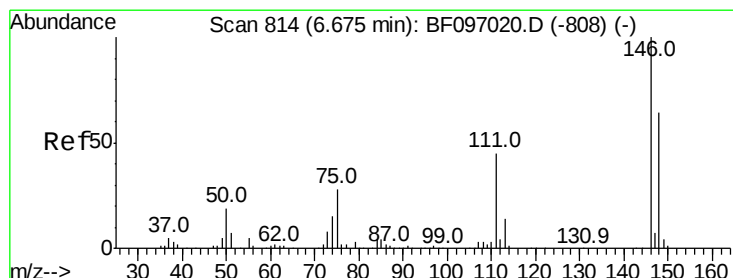
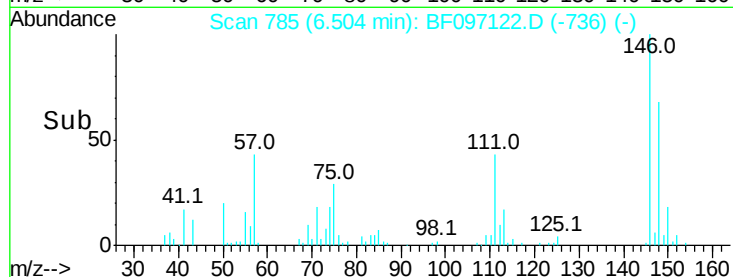
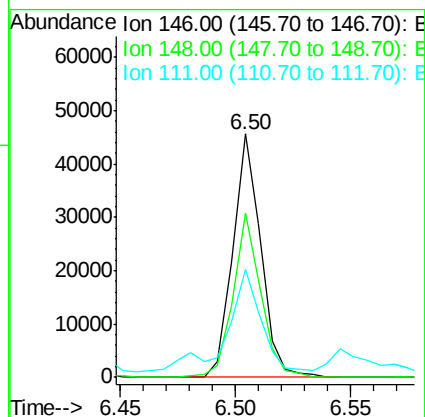
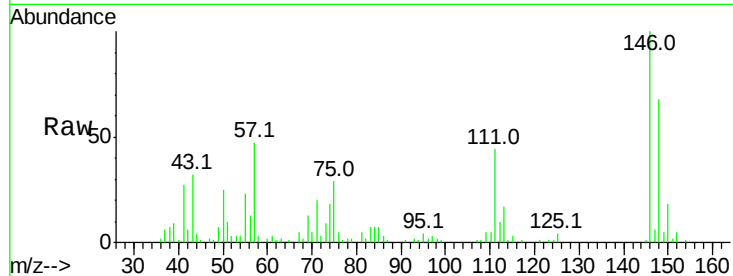
ClientSampleId :

E2-M6-ESW

Tot Ion:	146	Resp:	38375
Ion Ratio	Lower	Upper	
146	100		
148	67.5	52.2	78.2
111	44.3	30.3	45.5

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#14

1,2-Dichlorobenzene

Concen: 15.585 ng

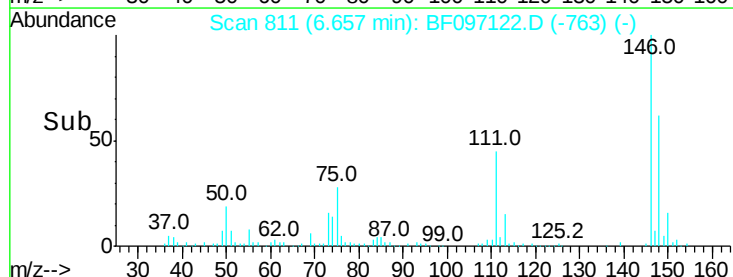
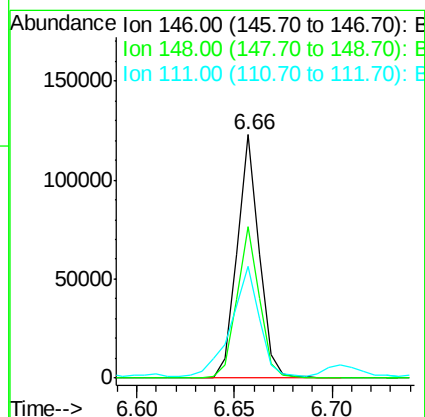
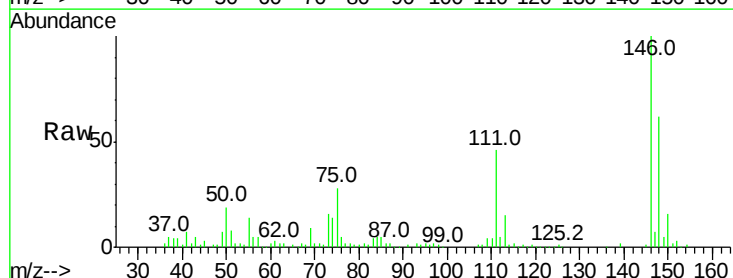
RT: 6.66 min Scan# 811

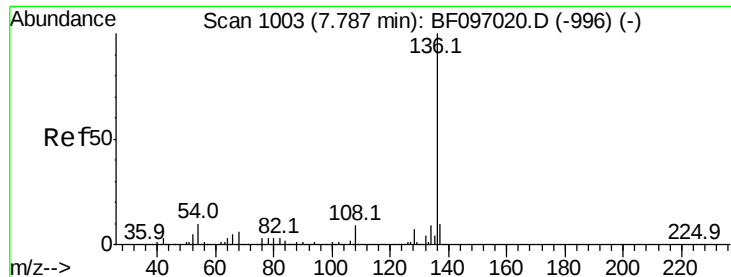
Delta R.T. -0.02 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Tgt Ion:	146	Resp:	96832
Ion Ratio	Lower	Upper	
146	100		
148	62.0	50.4	75.6
111	46.1	38.2	57.4





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Instrument :

BNA_F

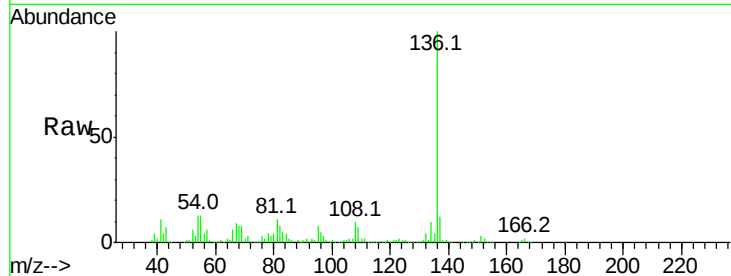
ClientSampleId :

E2-M6-ESW

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	12.2	8.5	12.7	
54	13.0	4.9	7.3	
68	8.3	4.1	6.1	

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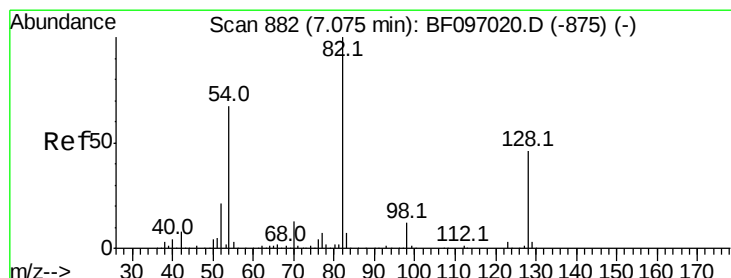
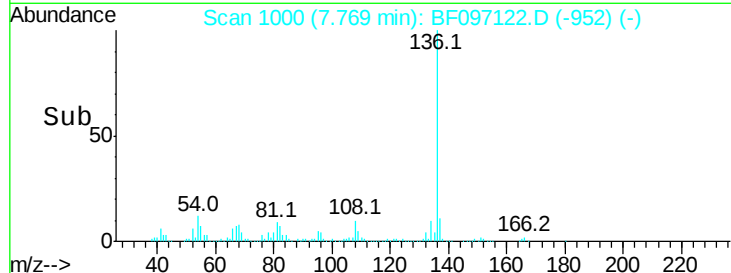
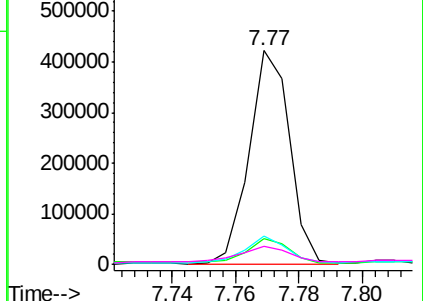


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 34.341 ng

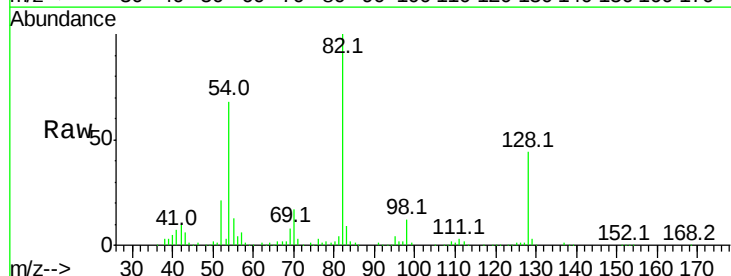
RT: 7.05 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

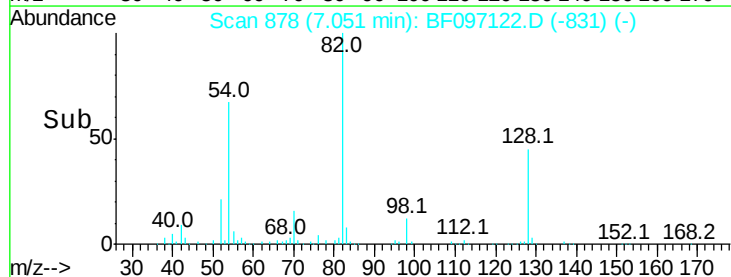
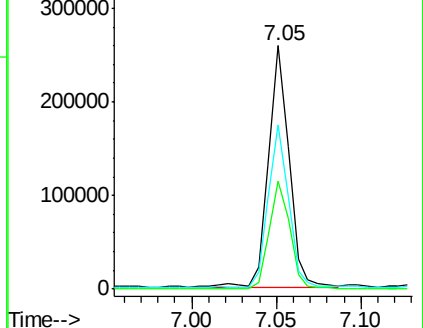
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	44.4	34.0	51.0	
54	67.6	42.2	63.2	

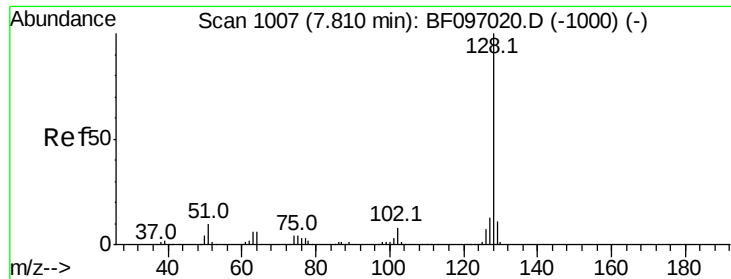


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





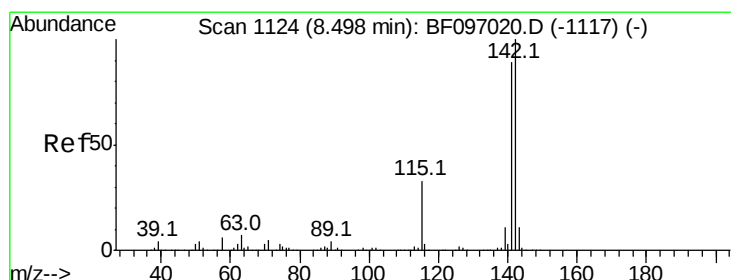
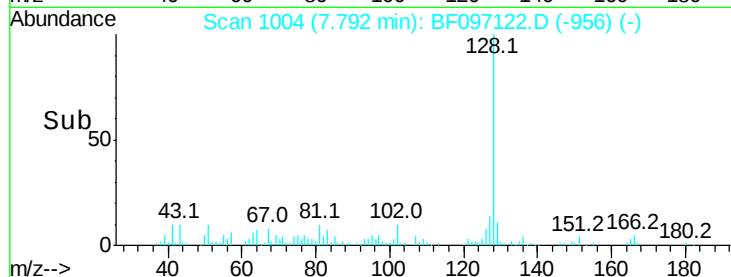
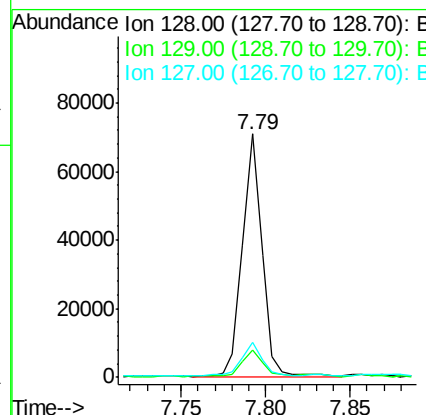
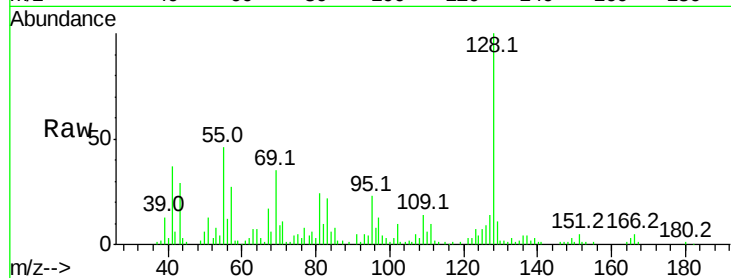
#31
Naphthalene
Concen: 3.253 ng
RT: 7.79 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Instrument :
BNA_F
ClientSampleId :
E2-M6-ESW

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	14.3	10.8	16.2

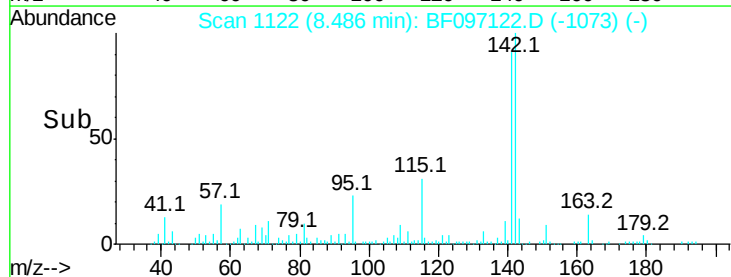
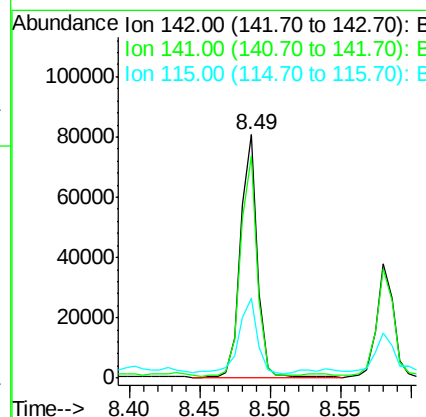
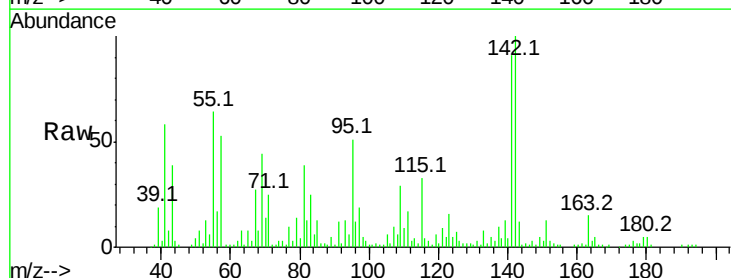
Manual Integrations
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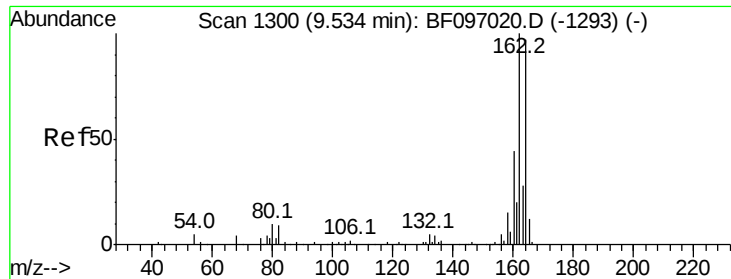
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#37
2-Methylnaphthalene
Concen: 6.103 ng
RT: 8.49 min Scan# 1122
Delta R.T. -0.01 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.3	71.3	106.9
115	33.0	27.1	40.7





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Instrument :

BNA_F

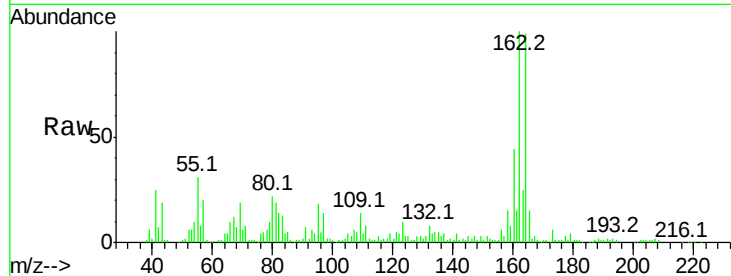
ClientSampleId :

E2-M6-ESW

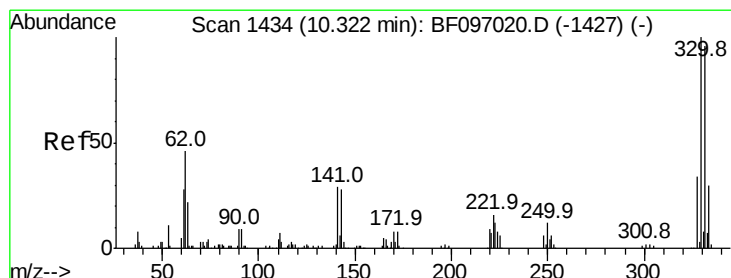
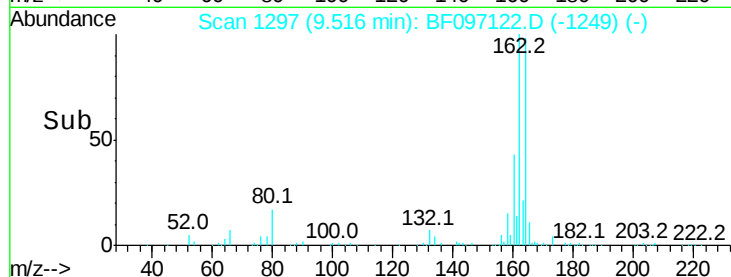
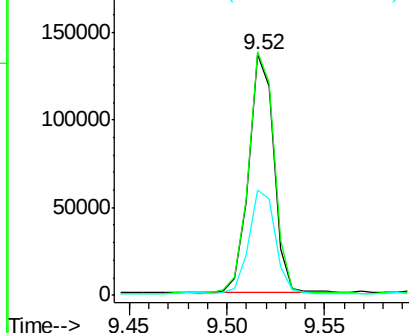
Tot Ion:	164	Resp:	121799
Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.6	123.8
160	44.0	36.2	54.2

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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: 48.618 ng

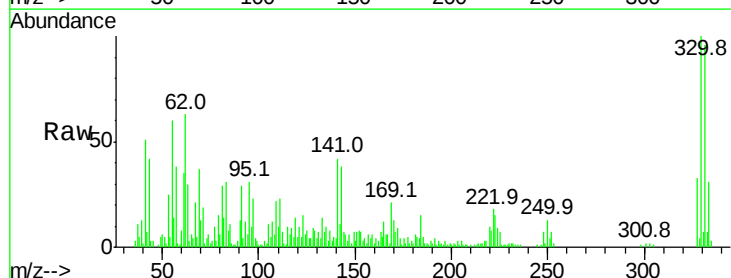
RT: 10.30 min Scan# 1431

Delta R.T. -0.02 min

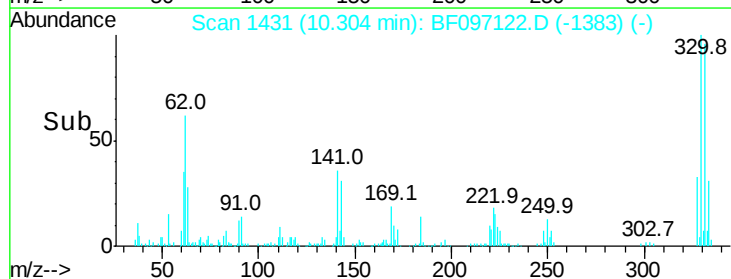
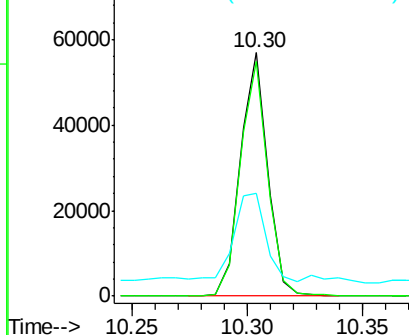
Lab File: BF097122.D

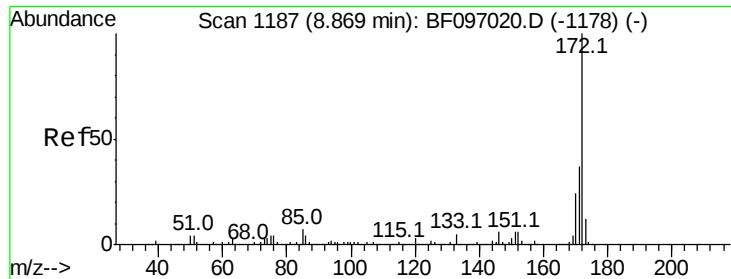
Acq: 27 Jul 2017 15:05

Tgt Ion:	330	Resp:	46787
Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.6	115.0
141	43.5	31.4	47.2



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: 41.042 ng

RT: 8.85 min Scan# 1184

Delta R.T. -0.02 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Instrument :

BNA_F

ClientSampleId :

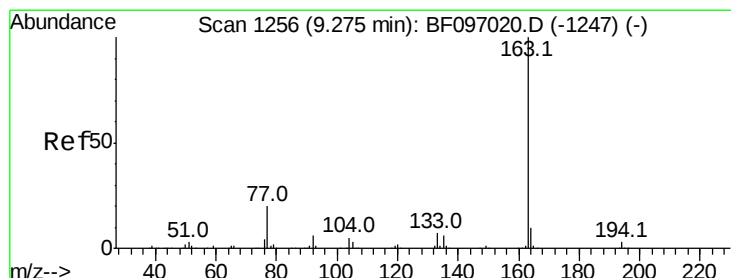
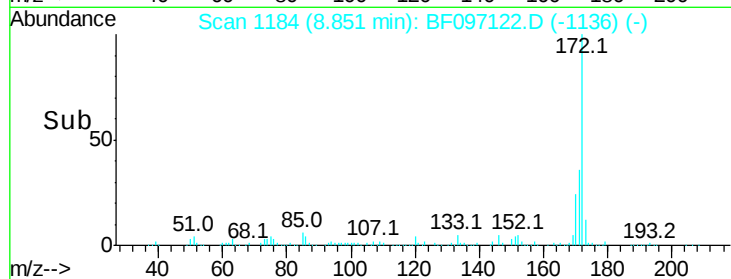
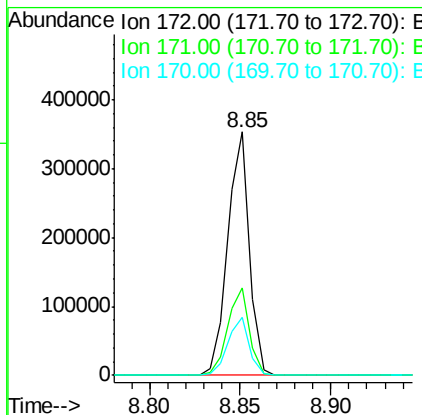
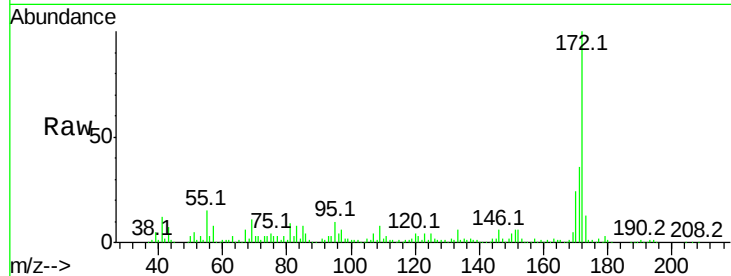
E2-M6-ESW

Tot Ion:	172	Resp:	294556
Ion Ratio	Lower	Upper	
172	100		
171	35.7	29.6	44.4
170	23.9	19.8	29.8

Manual Integrations
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#49

Dimethylphthalate

Concen: 3.058 ng

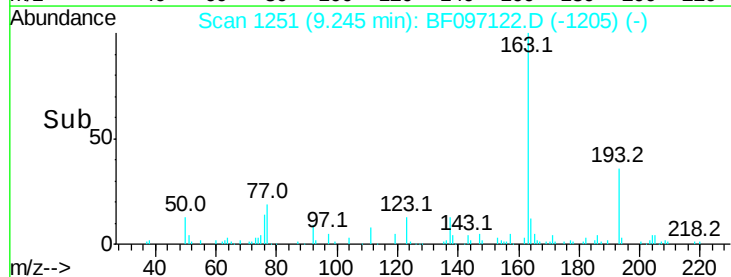
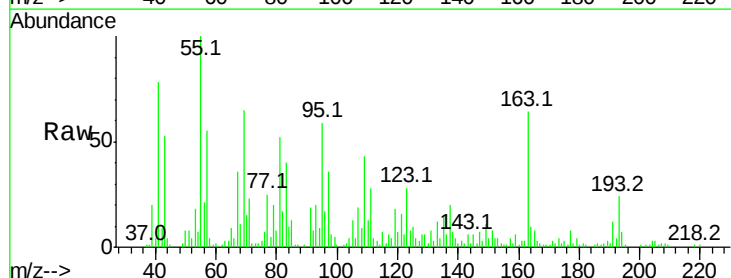
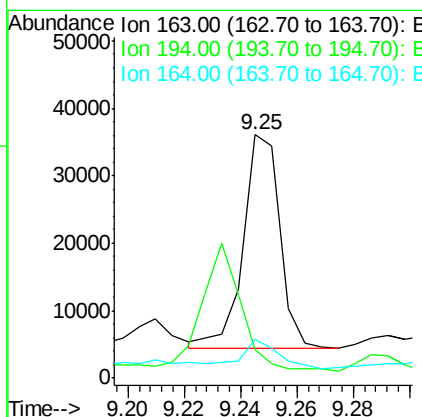
RT: 9.25 min Scan# 1251

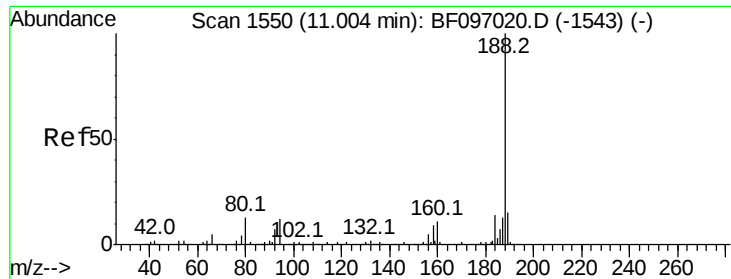
Delta R.T. -0.03 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Tgt Ion:	163	Resp:	28285
Ion Ratio	Lower	Upper	
163	100		
194	11.6	2.6	4.0#
164	15.9	8.4	12.6#





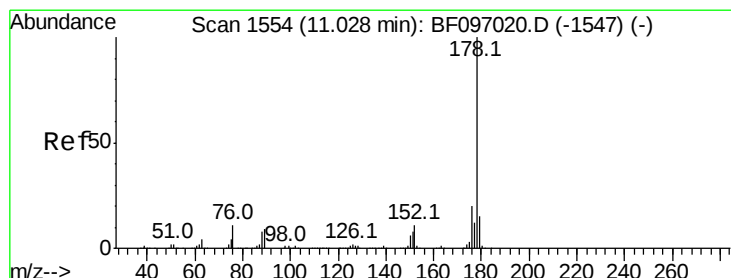
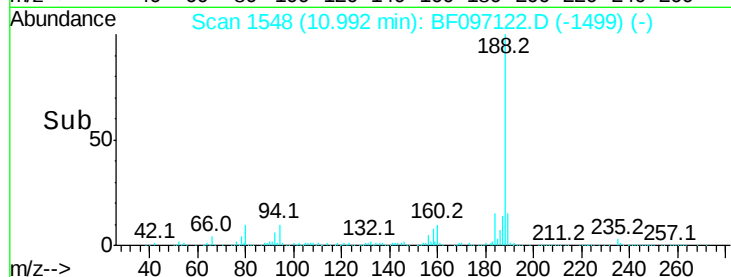
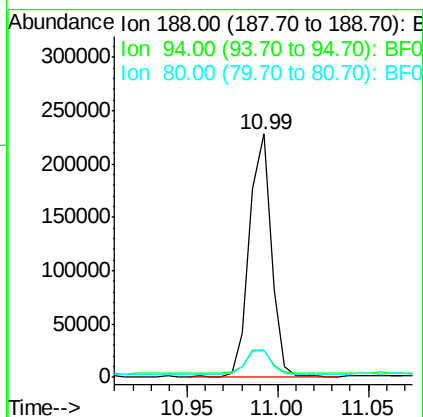
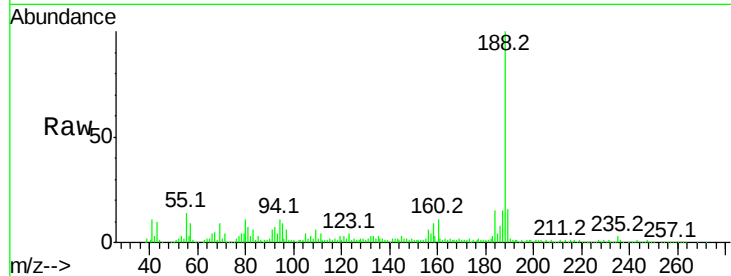
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.99 min Scan# 1548
Delta R.T. -0.01 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Instrument :
BNA_F
ClientSampleId :
E2-M6-ESW

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.1		9.4	14.2
80	11.3		10.2	15.2

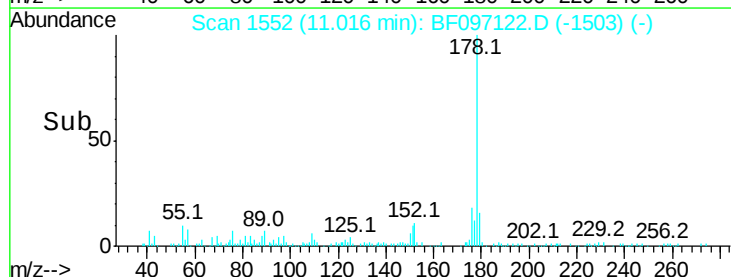
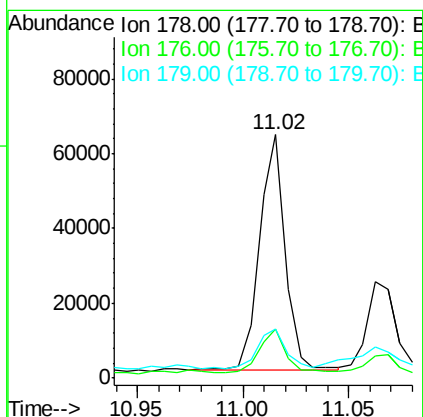
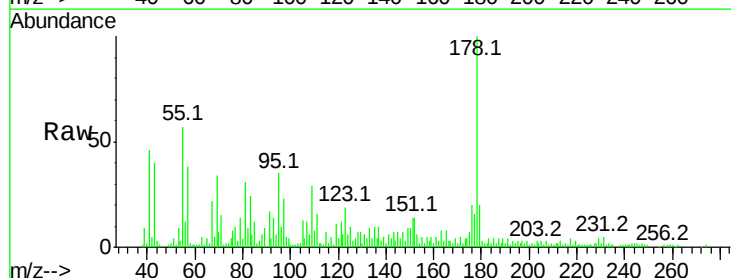
Manual Integrations
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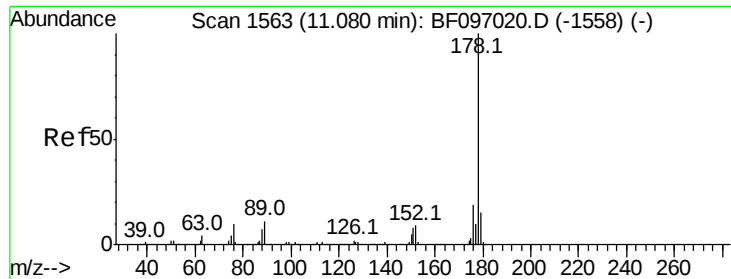
Sohil
7/28/2017 4:46:44 PM



#70
Phenanthrene
Concen: 5.265 ng
RT: 11.02 min Scan# 1552
Delta R.T. -0.01 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	20.1		16.2	24.4
179	20.0		12.6	19.0#





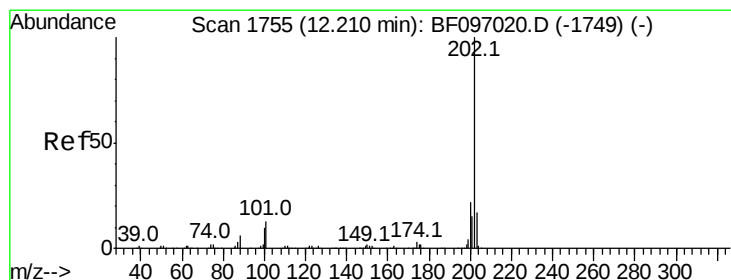
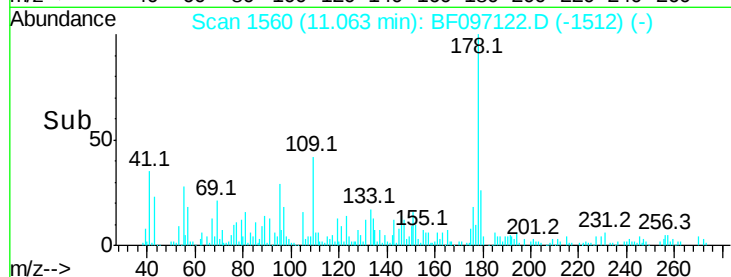
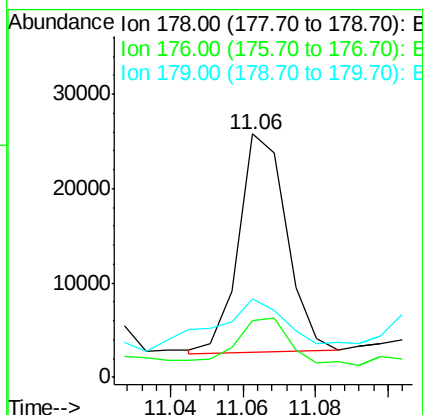
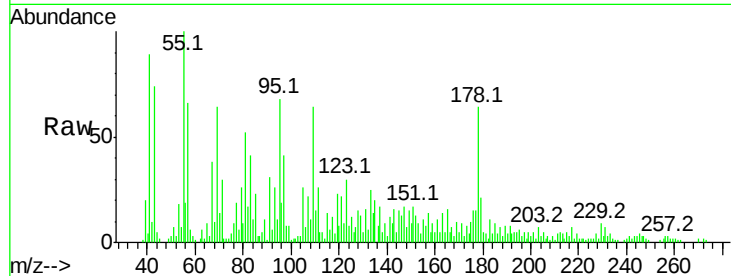
#71
 Anthracene
 Concen: 2.018 ng
 RT: 11.06 min Scan# 1560
 Delta R.T. -0.02 min
 Lab File: BF097122.D
 Acq: 27 Jul 2017 15:05

Instrument :
 BNA_F
 ClientSampleId :
 E2-M6-ESW

Tot Ion	Ratio	Lower	Upper
178	100		
176	23.3	15.8	23.8
179	32.2	12.7	19.1

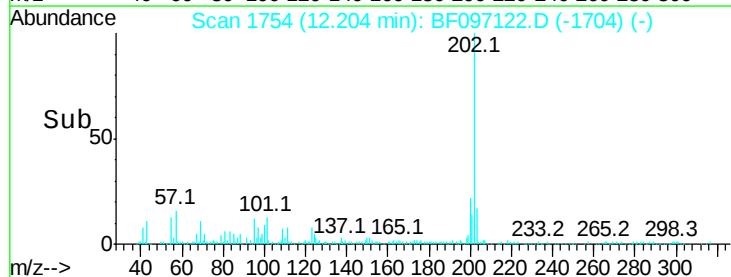
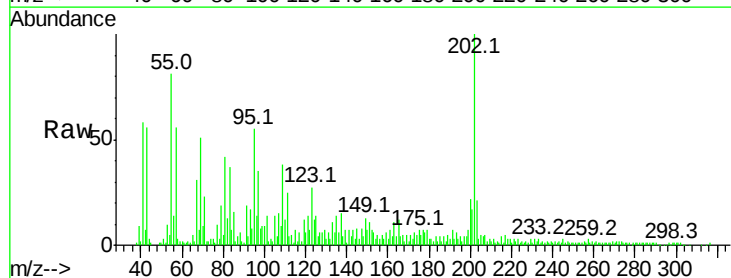
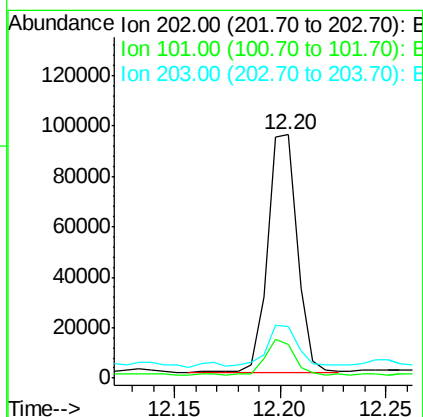
Manual Integrations
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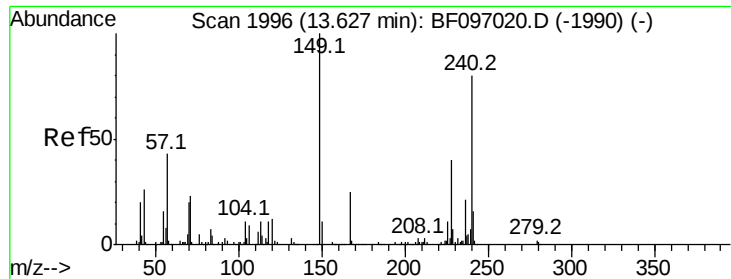
Sohil
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#74
 Fluoranthene
 Concen: 9.221 ng
 RT: 12.20 min Scan# 1754
 Delta R.T. -0.01 min
 Lab File: BF097122.D
 Acq: 27 Jul 2017 15:05

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	33.2
203	21.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.63 min Scan# 1997

Delta R.T. 0.01 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Instrument :

BNA_F

ClientSampleId :

E2-M6-ESW

Tot Ion:240 Resp: 137895

Ion Ratio Lower Upper

240 100

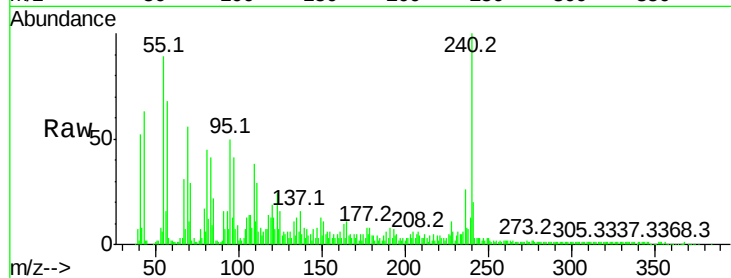
120 19.1 5.8 8.8#

236 26.1 20.5 30.7

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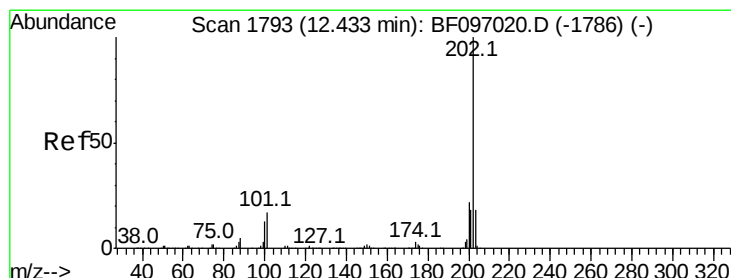
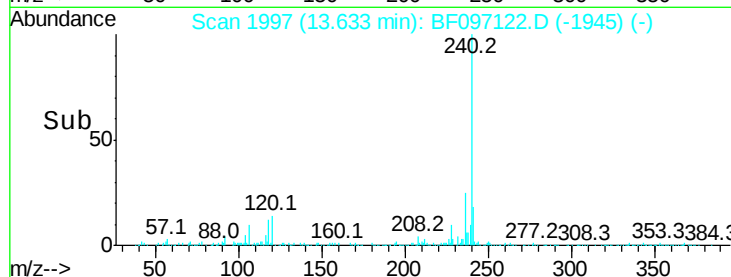
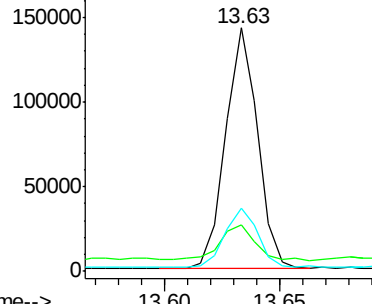
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 8.882 ng

RT: 12.43 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

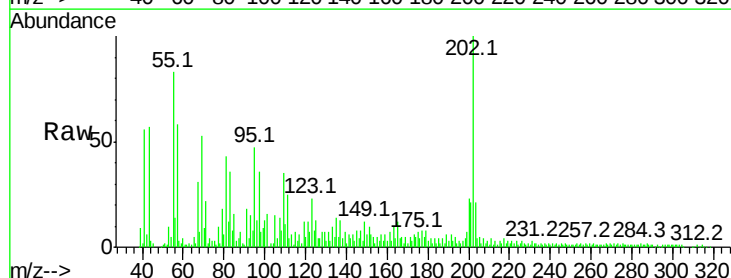
Tgt Ion:202 Resp: 100270

Ion Ratio Lower Upper

202 100

200 22.5 17.6 26.4

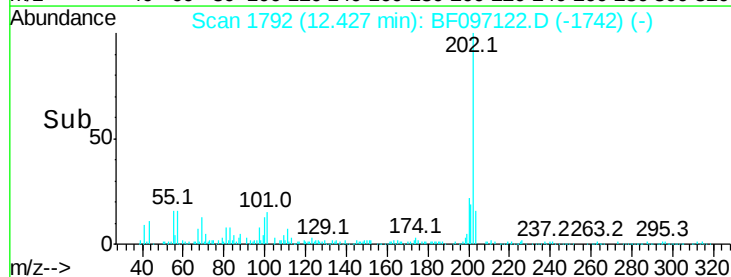
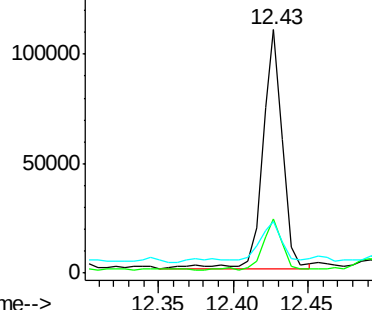
203 21.1 14.4 21.6

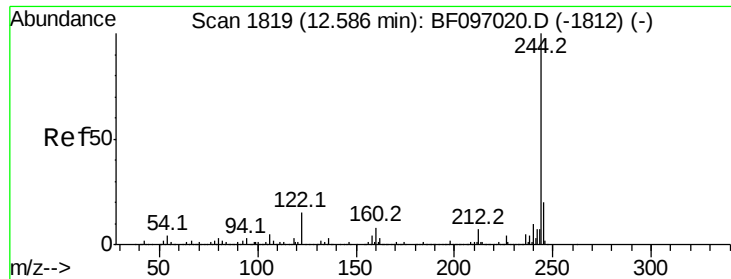


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





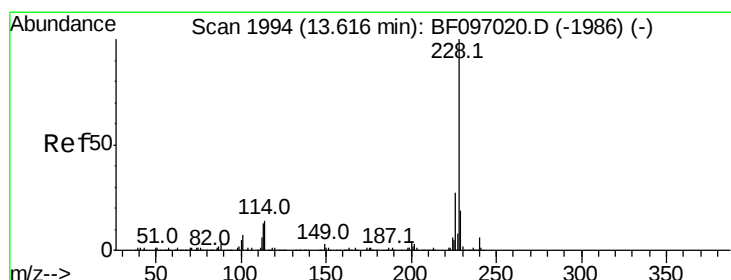
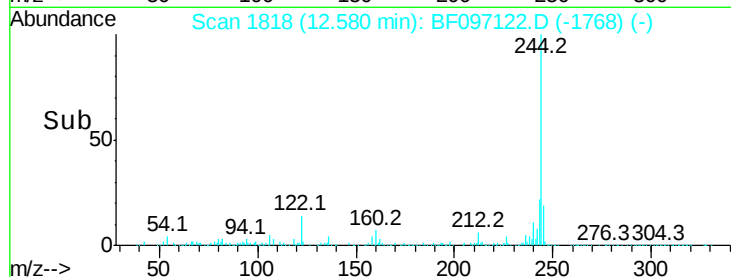
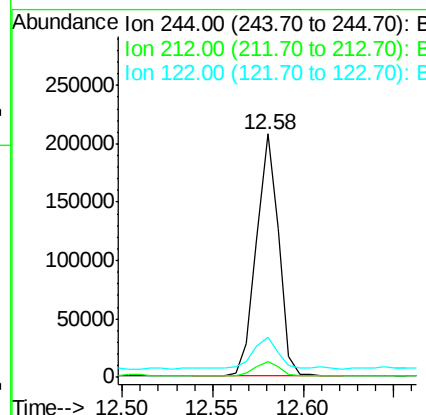
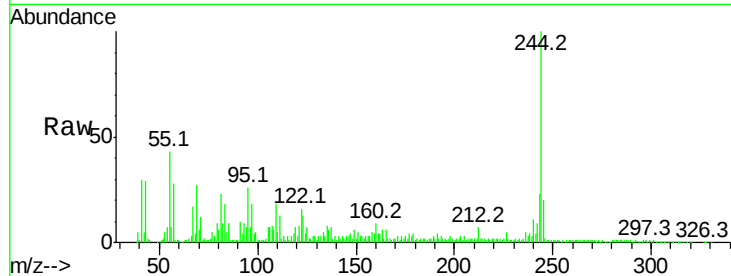
#78
 Terphenyl-d14
 Concen: 26.189 ng
 RT: 12.58 min Scan# 1818
 Delta R.T. -0.01 min
 Lab File: BF097122.D
 Acq: 27 Jul 2017 15:05

Instrument :
 BNA_F
 ClientSampled :
 E2-M6-ESW

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	6.5	6.0	9.0
122	16.4	10.3	15.5

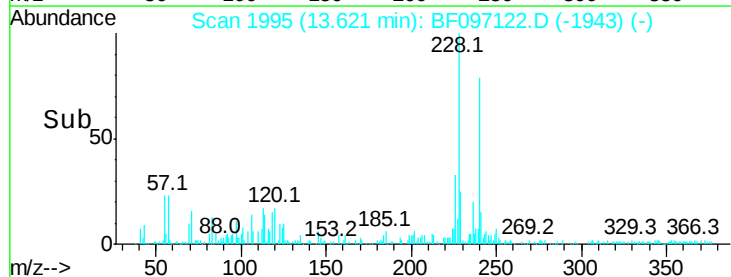
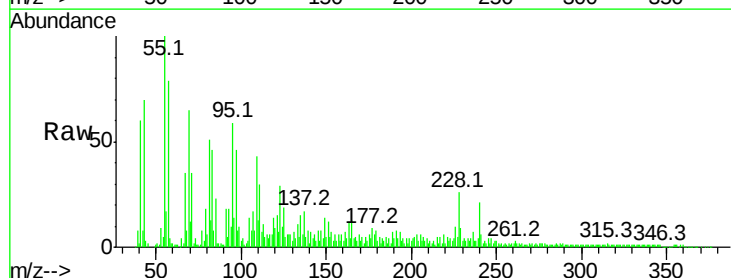
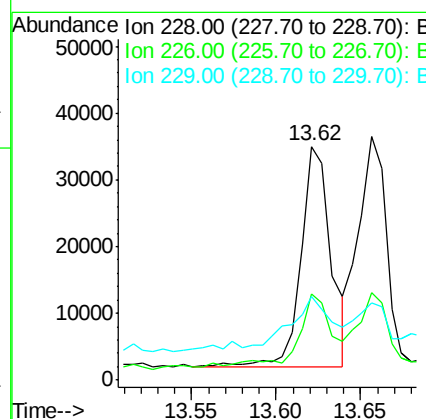
Manual Integrations
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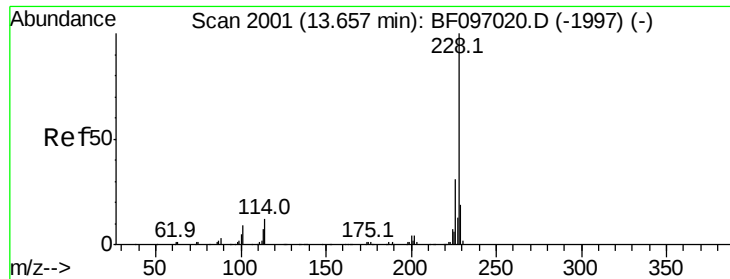
Sohil
 7/28/2017 4:46:44 PM



#80
 Benzo(a)anthracene
 Concen: 4.594 ng
 RT: 13.62 min Scan# 1995
 Delta R.T. 0.01 min
 Lab File: BF097122.D
 Acq: 27 Jul 2017 15:05

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	37.0	22.6	33.8
229	35.9	16.3	24.5





#82

Chrysene

Concen: 4.626 ng

RT: 13.66 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Instrument :

BNA_F

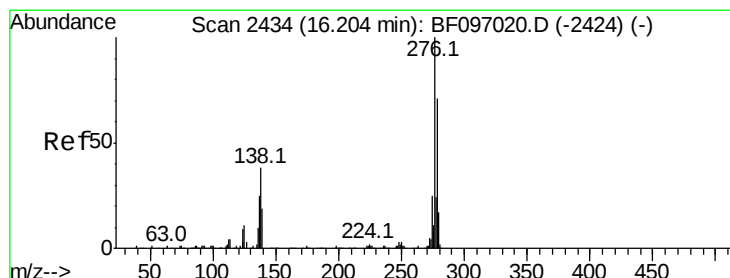
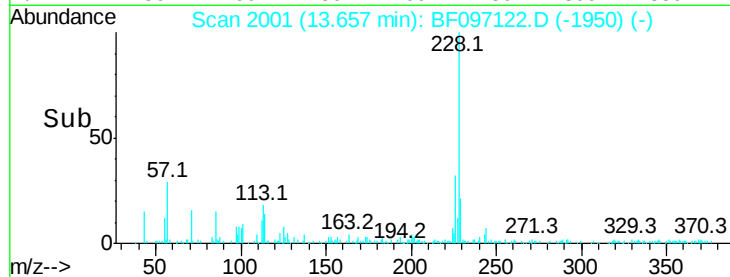
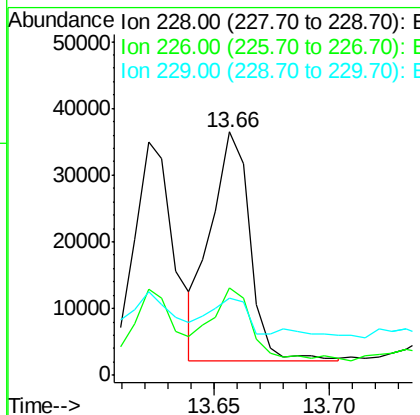
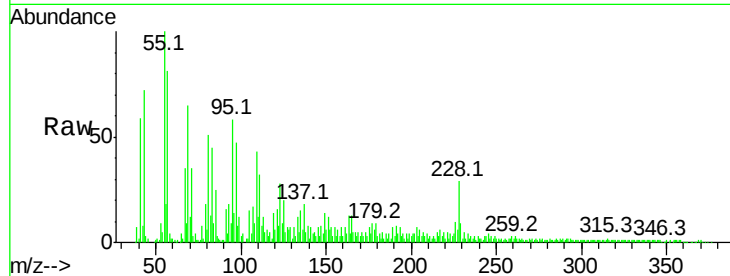
ClientSampled :

E2-M6-ESW

Tot Ion:	228	Resp:	40301
Ion Ratio	Lower	Upper	
228	100		
226	35.8	24.9	37.3
229	31.9	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.778 ng

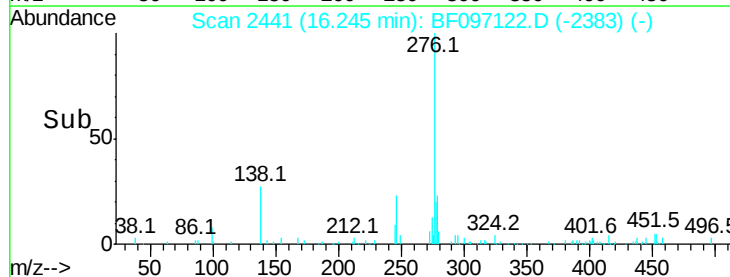
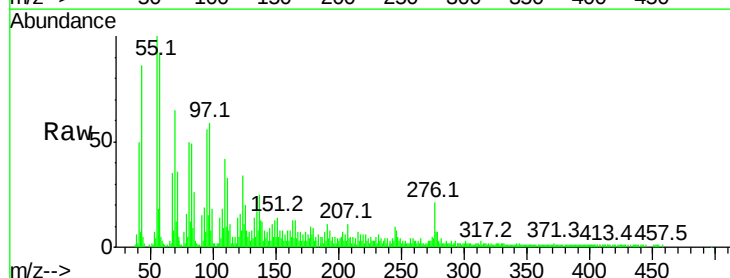
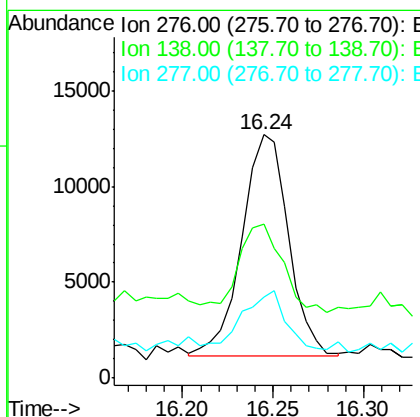
RT: 16.24 min Scan# 2441

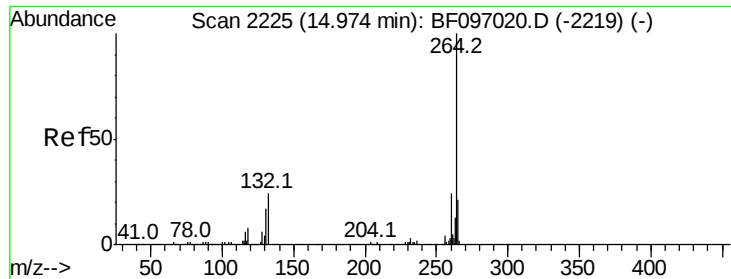
Delta R.T. 0.04 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Tgt Ion:	276	Resp:	20753
Ion Ratio	Lower	Upper	
276	100		
138	37.4	27.8	41.6
277	23.6	20.2	30.4





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.01 min Scan# 2231

Delta R.T. 0.04 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Instrument :

BNA_F

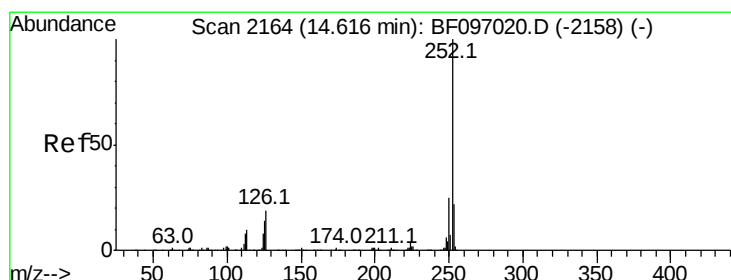
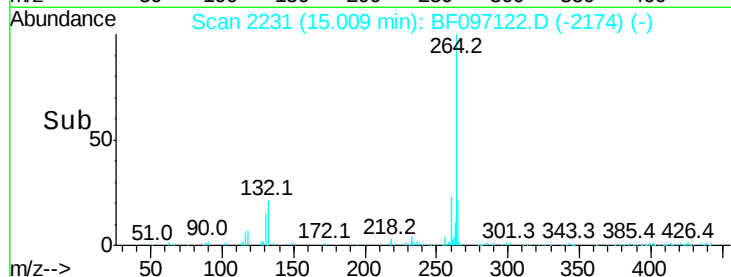
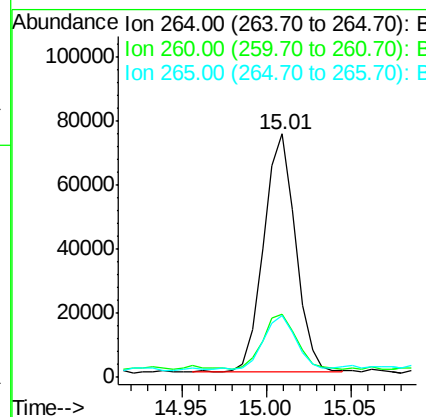
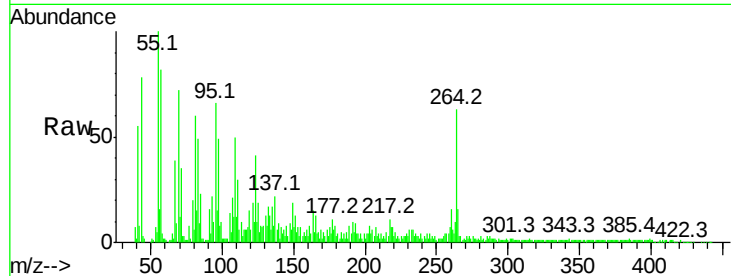
ClientSampled :

E2-M6-ESW

Tot Ion:	264	Resp:	97397
Ion Ratio	Lower	Upper	
264	100		
260	26.1	19.5	29.3
265	25.3	17.2	25.8

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#87

Benzo(b)fluoranthene

Concen: 5.911 ng m

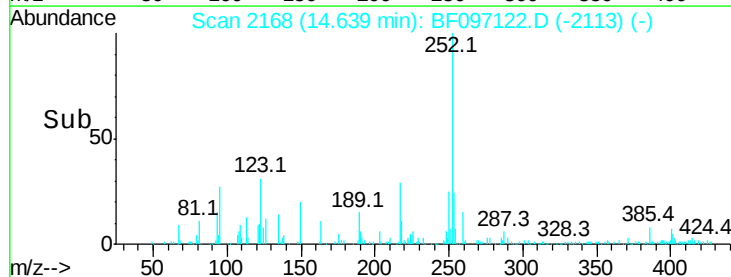
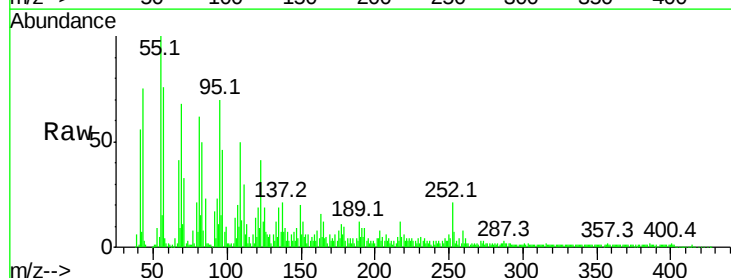
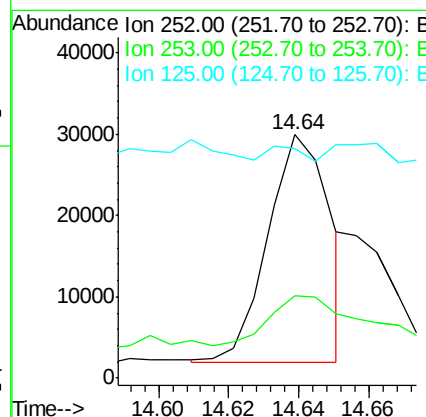
RT: 14.64 min Scan# 2168

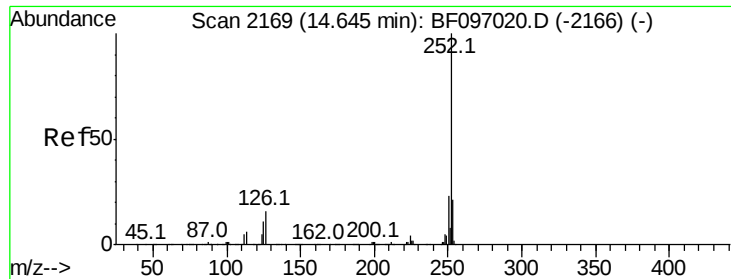
Delta R.T. 0.02 min

Lab File: BF097122.D

Acq: 27 Jul 2017 15:05

Tgt Ion:	252	Resp:	34609
Ion Ratio	Lower	Upper	
252	100		
253	33.6	18.1	27.1#
125	94.2	9.8	14.8#





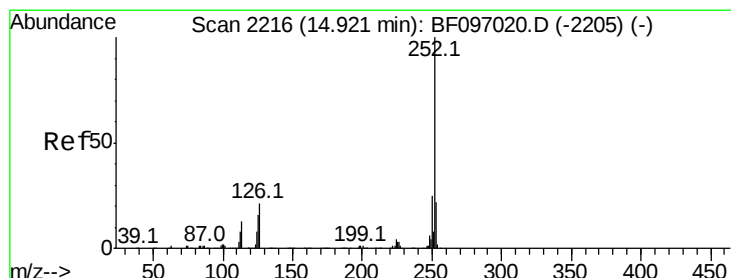
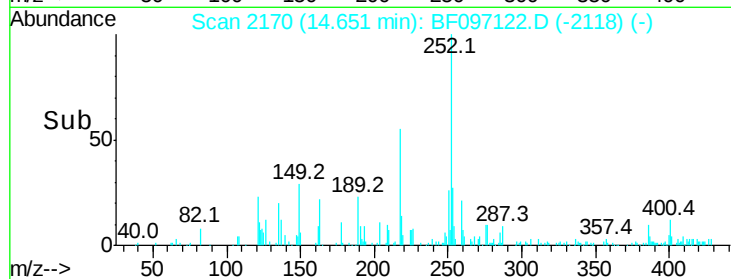
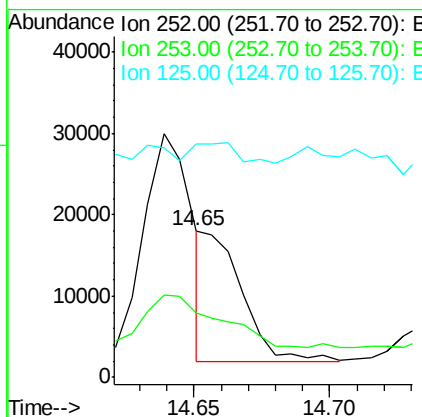
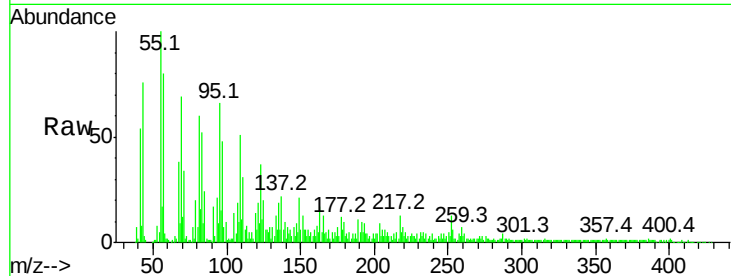
#88
Benzo(k)fluoranthene
Concen: 2.778 ng/mL
RT: 14.65 min Scan# 2170
Delta R.T. 0.01 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Instrument :
BNA_F
ClientSampleId :
E2-M6-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	44.0	18.4	27.6#
125	159.0	13.1	19.7#

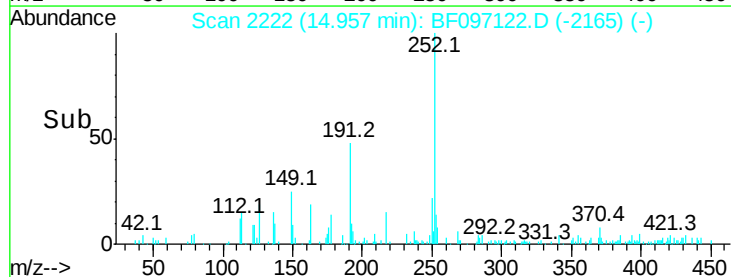
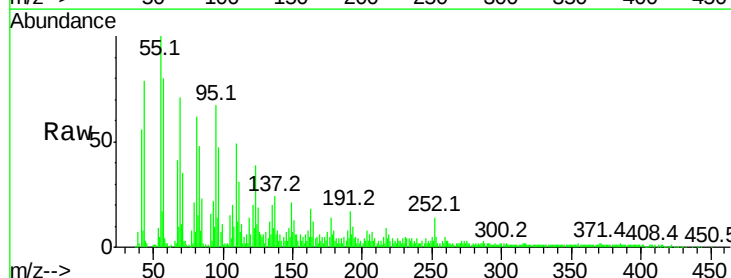
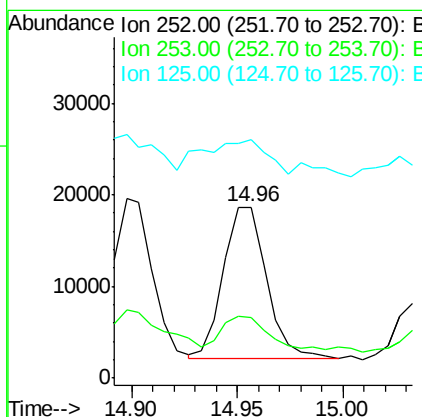
Manual Integrations
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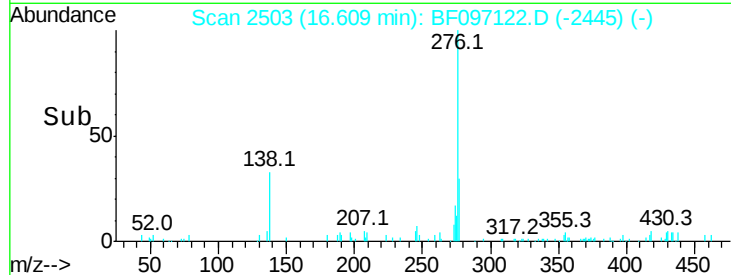
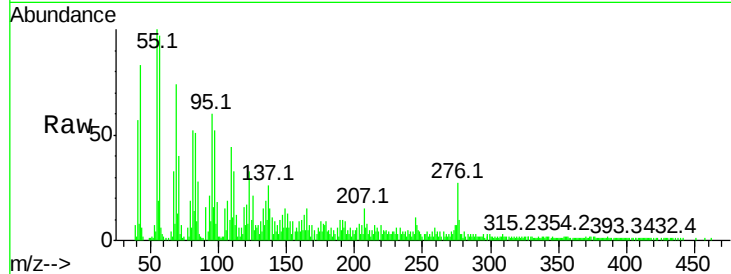
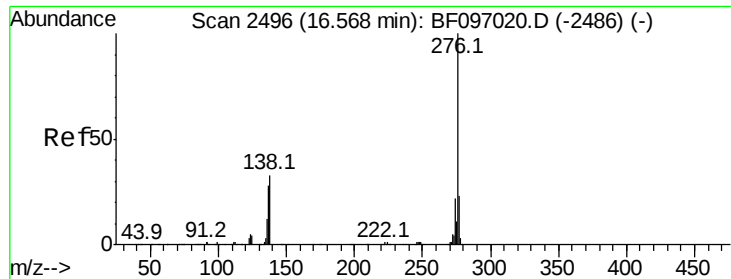
Sohil
7/28/2017 4:46:44 PM



#89
Benzo(a)pyrene
Concen: 4.375 ng/mL
RT: 14.96 min Scan# 2222
Delta R.T. 0.04 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	35.8	17.5	26.3#
125	139.9	11.0	16.4#





#91
Benzo(a,h,i)perylene
Concen: 5.317 ng
RT: 16.61 min Scan# 2503
Delta R.T. 0.04 min
Lab File: BF097122.D
Acq: 27 Jul 2017 15:05

Instrument :
BNA_F
ClientSampleId :
E2-M6-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
277	36.5	18.6	28.0#
138	54.9	25.4	38.0#

Manual Integrations
APPROVED

Sohil
7/28/2017 4:46:44 PM

