

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
 Data File : BF097384.D
 Acq On : 5 Aug 2017 5:01
 Operator : SJ/JU
 Sample : I4588-03
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-N9-BASE

Manual Integrations
 APPROVED

Sohil
 8/7/2017 6:10:16 PM

Quant Time: Aug 06 05:05:54 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.44	152	208843	20.00	ng	-0.06
21) Naphthalene-d8	7.72	136	806603	20.00	ng	-0.06
38) Acenaphthene-d10	9.46	164	294733	20.00	ng	-0.07
63) Phenanthrene-d10	10.93	188	446456	20.00	ng	-0.07
75) Chrysene-d12	13.56	240	359633	20.00	ng	-0.07
86) Perylene-d12	14.89	264	291416	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	494407	35.69	ng	-0.06
7) Phenol-d6	6.11	99	570153	36.05	ng	-0.06
23) Nitrobenzene-d5	7.01	82	374650	27.25	ng	-0.06
41) 2,4,6-Tribromophenol	10.25	330	87318	37.50	ng	-0.07
44) 2-Fluorobiphenyl	8.80	172	494812	28.49	ng	-0.07
78) Terphenyl-d14	12.51	244	307244	17.42	ng	-0.08
Target Compounds						
9) Benzaldehyde	5.99	77	18801	2.008	ng	Qvalue # 73
31) Naphthalene	7.74	128	87378	2.298	ng	98
37) 2-Methylnaphthalene	8.43	142	61732	2.564	ng	97
49) Dimethylphthalate	9.20	163	299347	13.375	ng	98
51) Acenaphthene	9.49	154	40889	2.441	ng	91
70) Phenanthrene	10.96	178	261405	10.928	ng	98
71) Anthracene	11.01	178	85466	3.488	ng	99
74) Fluoranthene	12.14	202	392372	16.743	ng	98
77) Pyrene	12.36	202	391632	13.302	ng	99
80) Benzo(a)anthracene	13.54	228	172107	7.396	ng	97
82) Chrysene	13.58	228	150704	6.632	ng	97
85) Indeno(1,2,3-cd)pyrene	16.09	276	58647	3.010	ng	95
87) Benzo(b)fluoranthene	14.54	252	155498m	8.877	ng	
88) Benzo(k)fluoranthene	14.56	252	58384m	3.498	ng	
89) Benzo(a)pyrene	14.84	252	107625	6.713	ng	97
91) Benzo(g,h,i)perylene	16.45	276	53794m	3.902	ng	

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

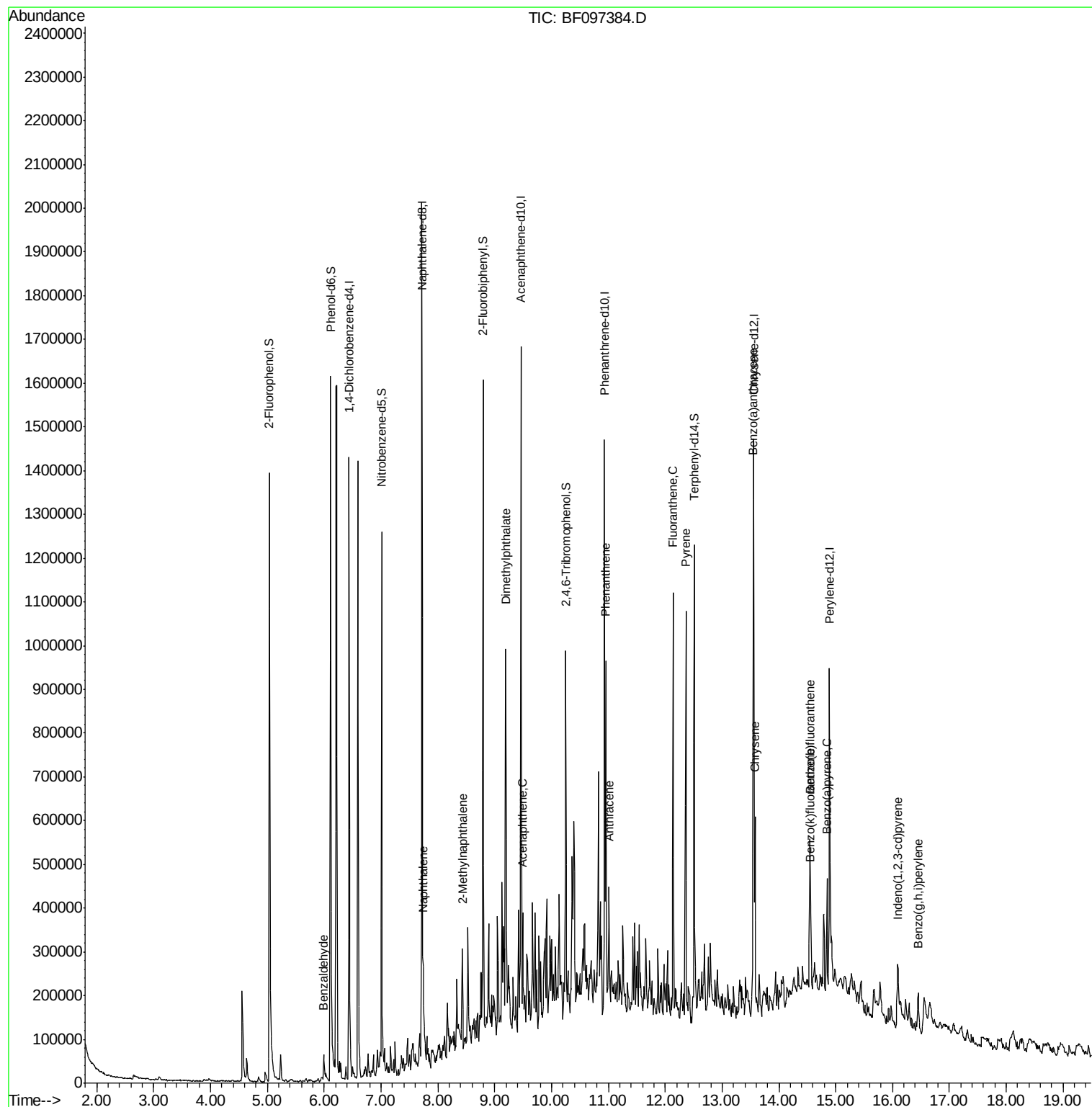
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
Data File : BF097384.D
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Operator : SJ/JU
Sample : I4588-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

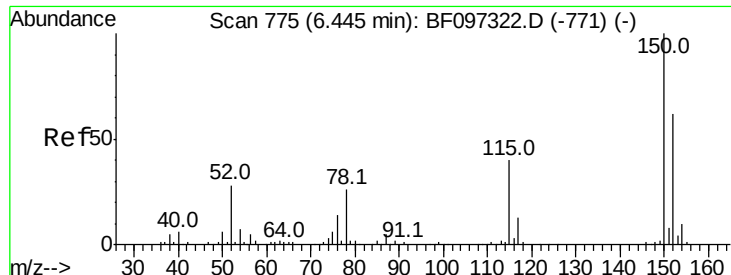
Instrument :
BNA_F
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E2-N9-BASE

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Quant Time: Aug 06 05:05:54 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
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#1

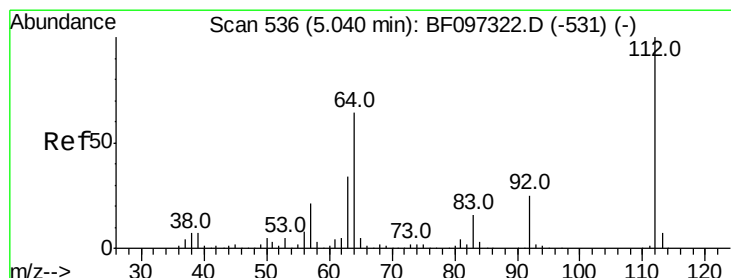
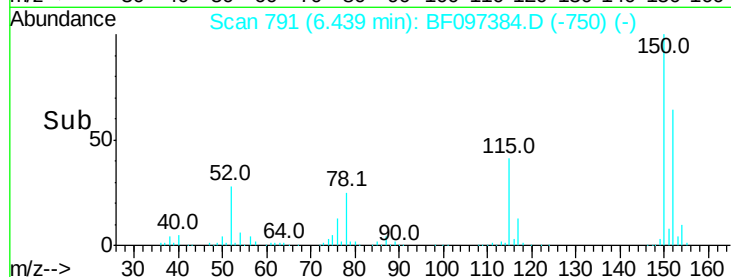
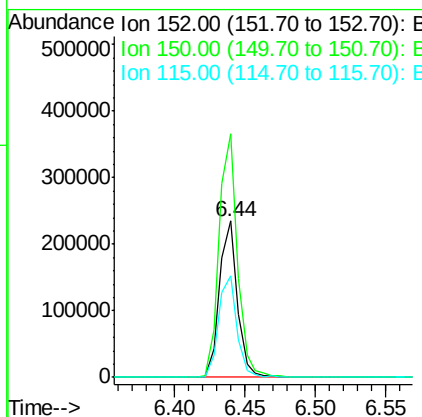
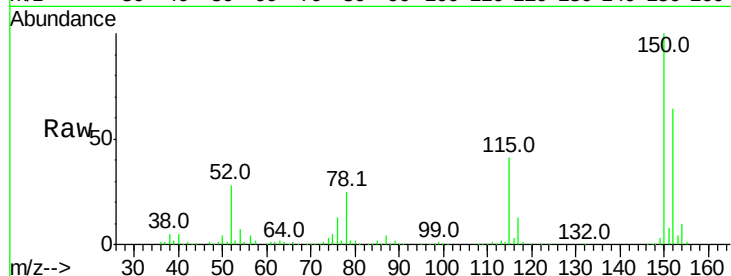
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.44 min Scan# 791
Delta R.T. -0.06 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Instrument :
BNA_F
ClientSampleId :
E2-N9-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.2	189.2
115	64.6	52.2	78.2

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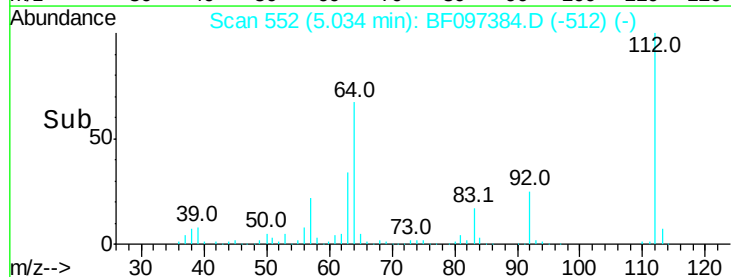
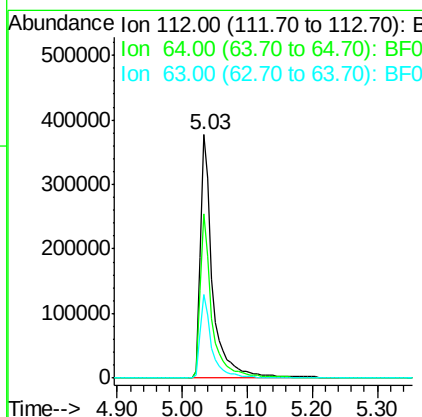
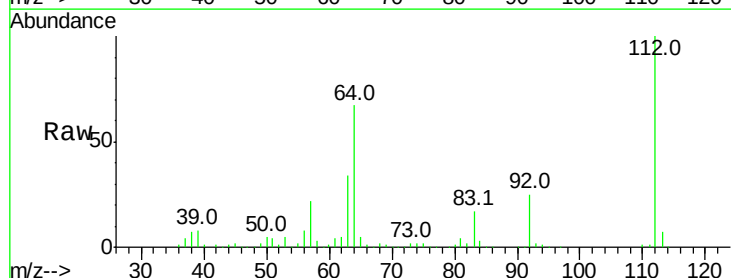
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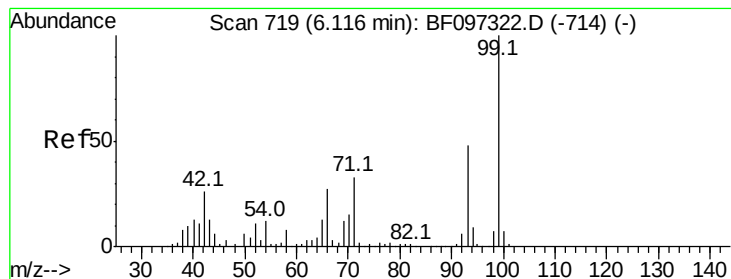


#5

2-Fluorophenol
Concen: 35.688 ng
RT: 5.03 min Scan# 552
Delta R.T. -0.06 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.4	46.0	69.0
63	34.4	23.4	35.0





#7

Phenol-d6

Concen: 36.050 ng

RT: 6.11 min Scan# 735

Delta R.T. -0.06 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Instrument :

BNA_F

ClientSampled :

E2-N9-BASE

Tot Ion: 99 Resp: 570153

Ion Ratio Lower Upper

99 100

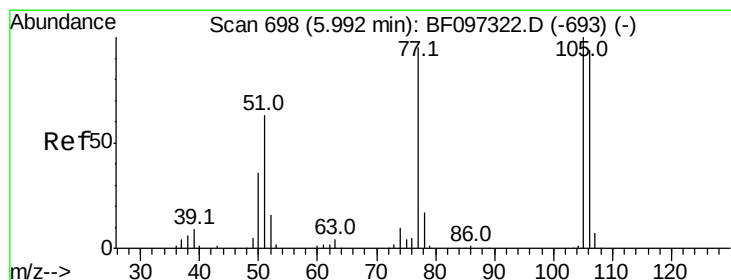
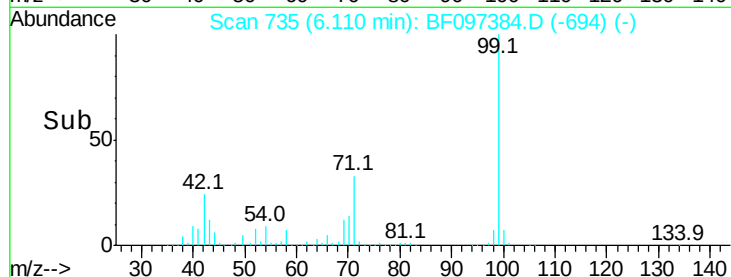
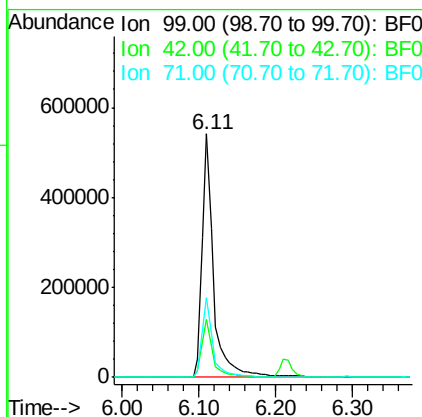
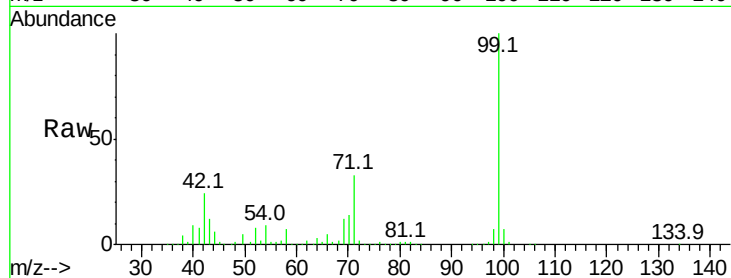
42 23.6 13.5 20.3#

71 32.9 24.5 36.7

Manual Integrations
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#9

Benzaldehyde

Concen: 2.008 ng

RT: 5.99 min Scan# 715

Delta R.T. -0.05 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

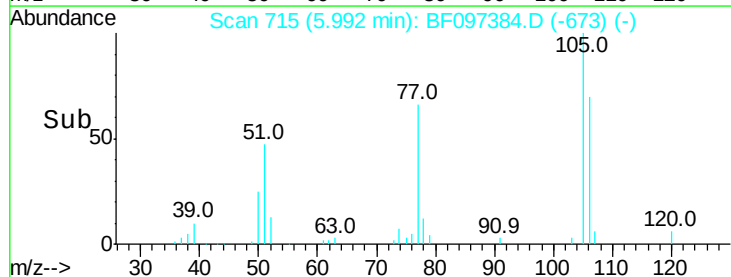
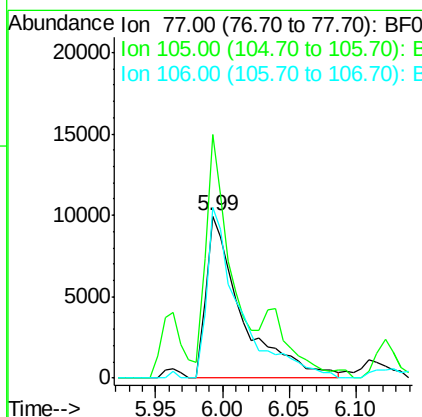
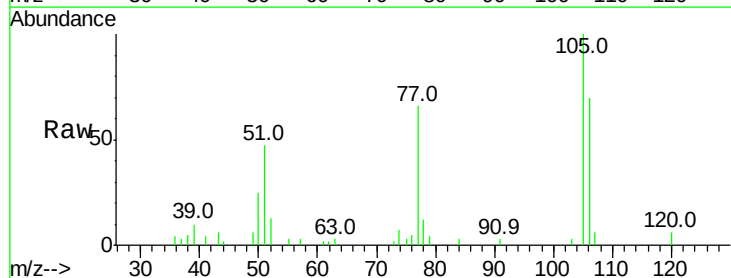
Tgt Ion: 77 Resp: 18801

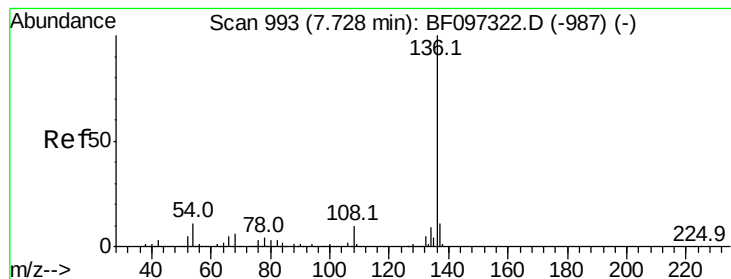
Ion Ratio Lower Upper

77 100

105 150.5 83.8 123.8#

106 105.6 79.1 119.1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.72 min Scan# 1009

Delta R.T. -0.06 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Instrument :

BNA_F

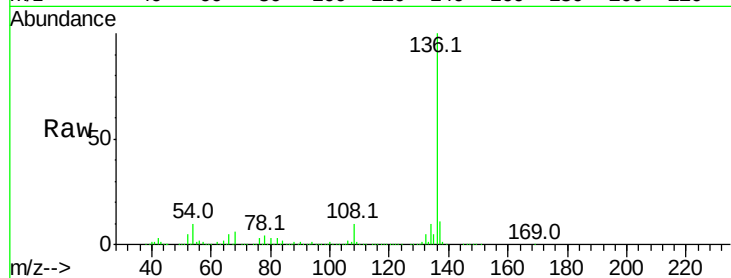
ClientSampled :

E2-N9-BASE

Tot Ion	Ratio	Resp	Lower	Upper
136	100	806603		
137	10.9	8.5	12.7	
54	10.3	4.9	7.3	
68	5.6	4.1	6.1	

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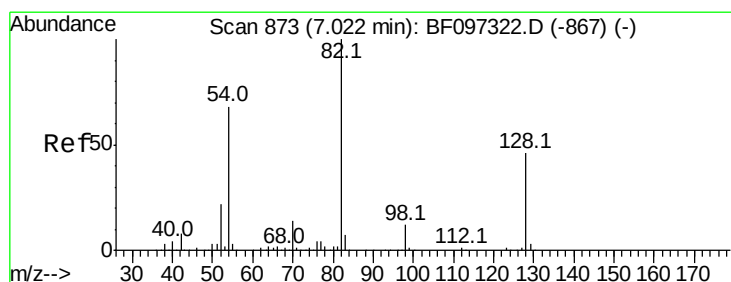
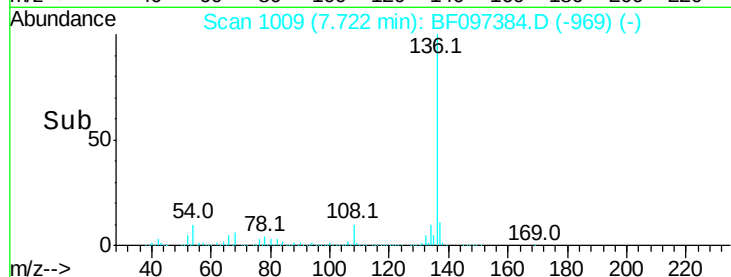
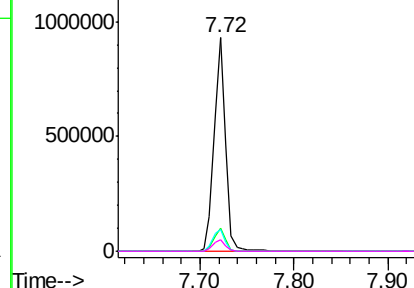


Abundance Ion 136.00 (135.70 to 136.70): E

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: 27.248 ng

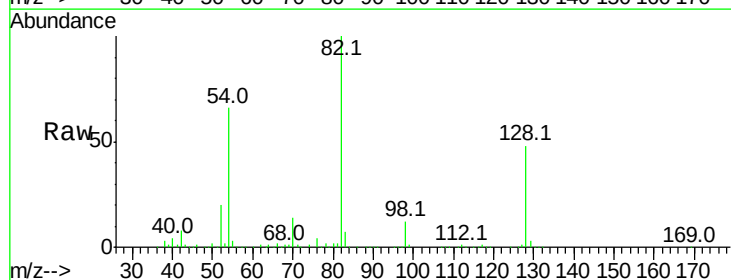
RT: 7.01 min Scan# 888

Delta R.T. -0.06 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

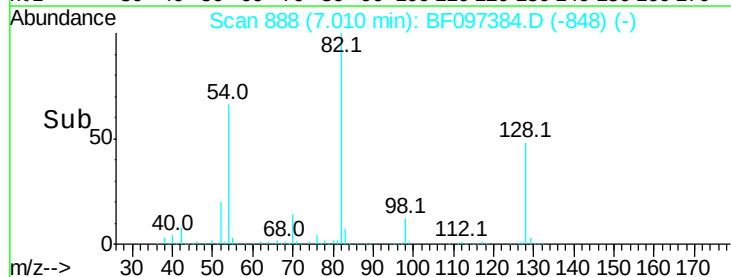
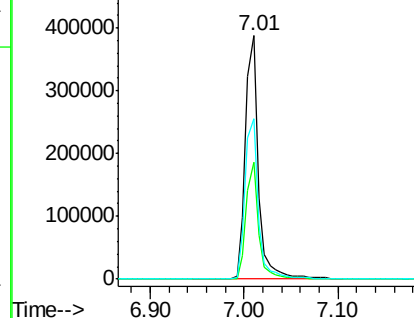
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	374650		
128	48.1	34.0	51.0	
54	65.9	42.2	63.2	

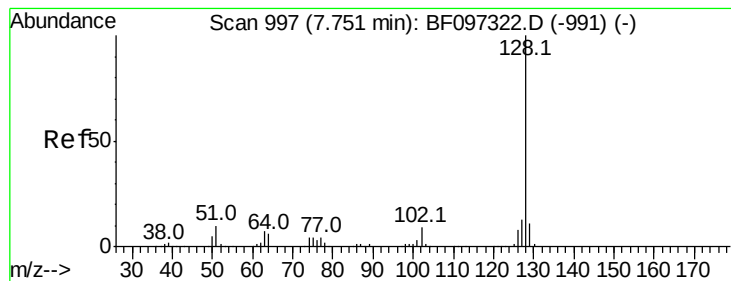


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 2.298 ng

RT: 7.74 min Scan# 1012

Delta R.T. -0.07 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Instrument :

BNA_F

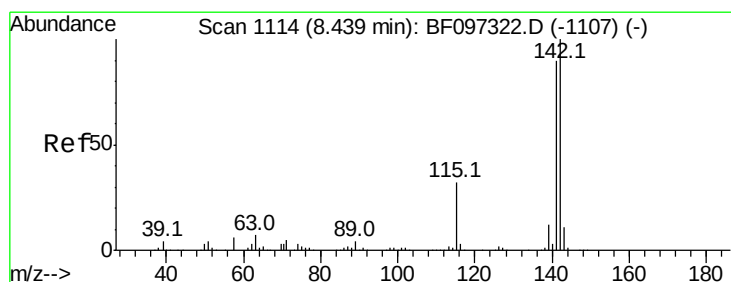
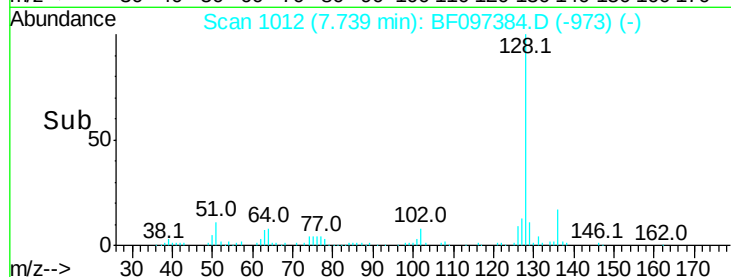
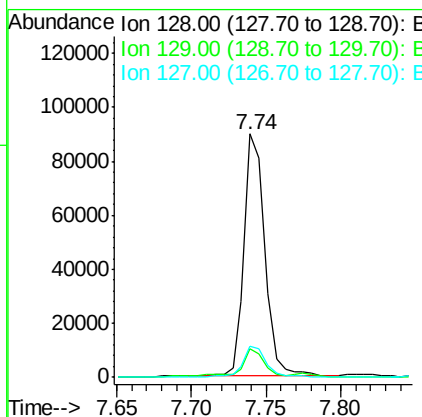
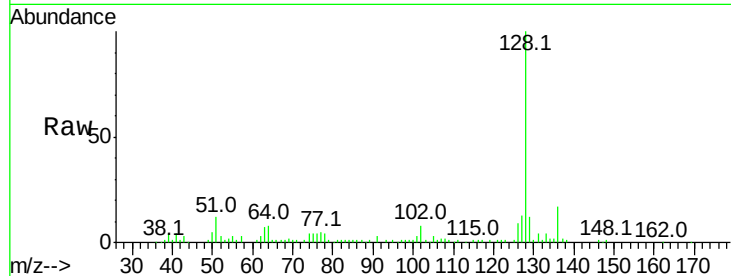
ClientSampleId :

E2-N9-BASE

Tot Ion:	128	Resp:	87378
Ion Ratio	Lower	Upper	
128	100		
129	11.9	9.0	13.6
127	12.6	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 2.564 ng

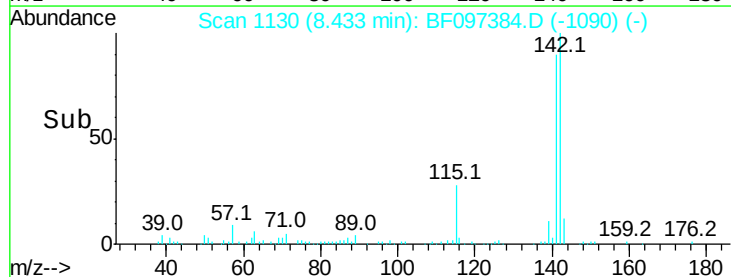
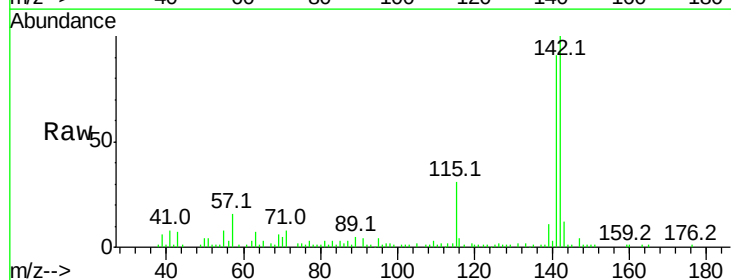
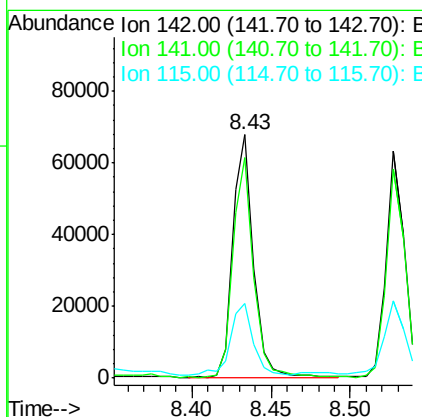
RT: 8.43 min Scan# 1130

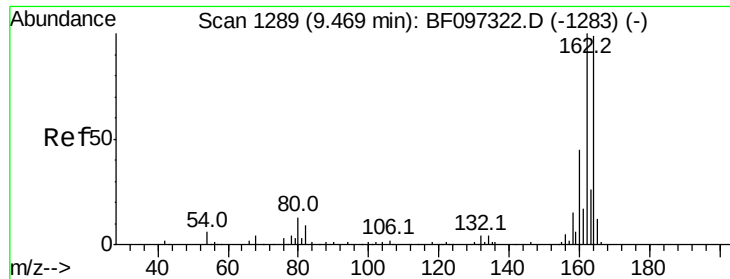
Delta R.T. -0.06 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Tgt Ion:	142	Resp:	61732
Ion Ratio	Lower	Upper	
142	100		
141	90.5	71.3	106.9
115	30.8	27.1	40.7





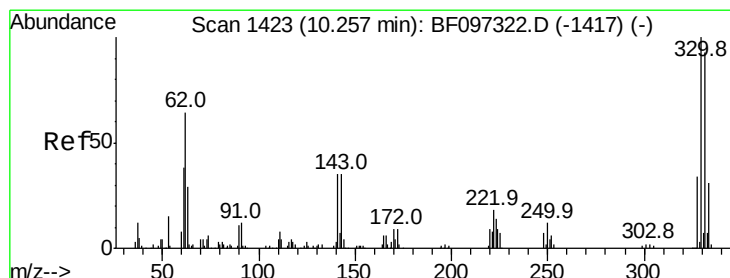
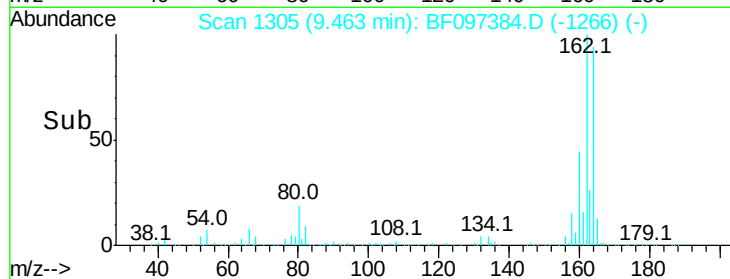
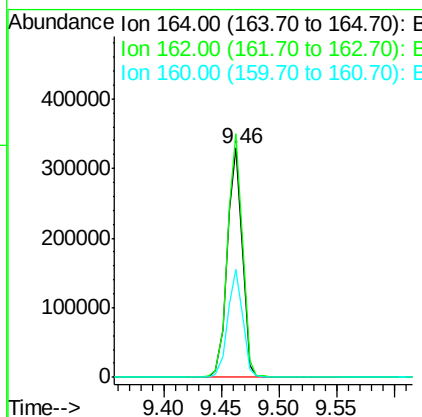
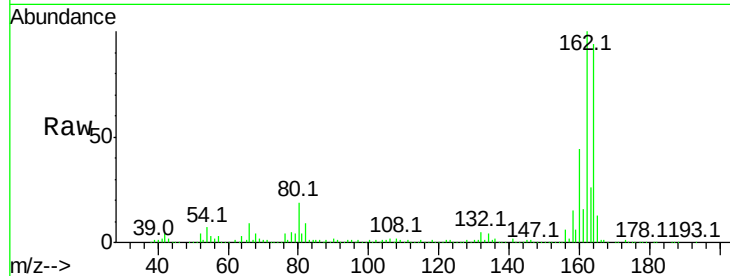
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.46 min Scan# 1305
 Delta R.T. -0.07 min
 Lab File: BF097384.D
 Acq: 5 Aug 2017 5:01

Instrument :
 BNA_F
 ClientSampleId :
 E2-N9-BASE

Tot Ion	Ratio	Resp	Lower	Upper
164	100	294733		
162	106.2	82.6	123.8	
160	47.1	36.2	54.2	

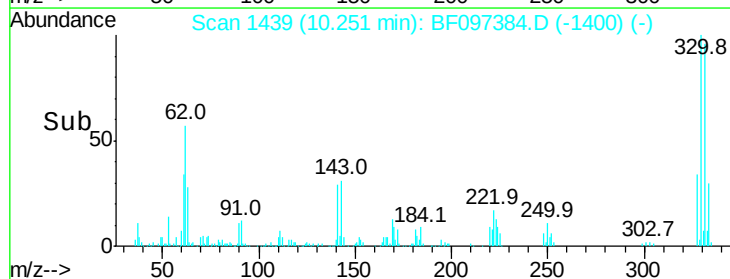
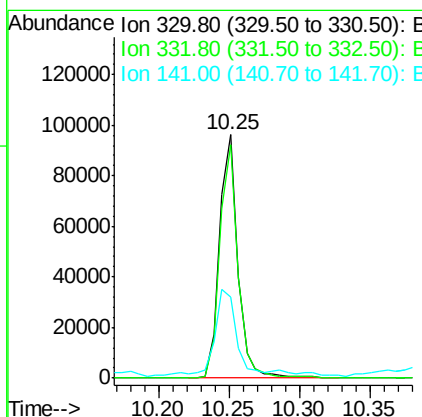
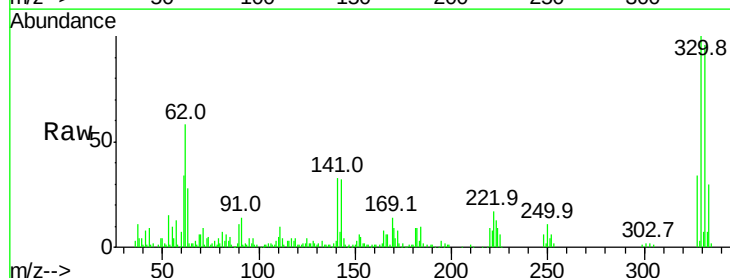
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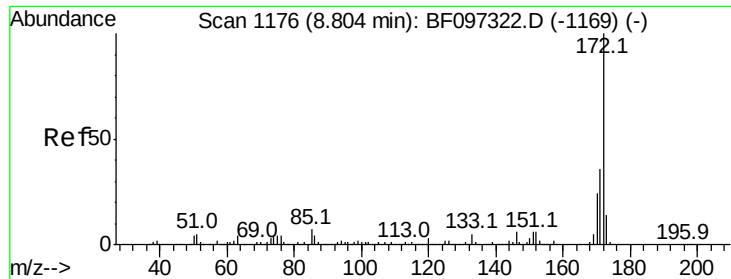
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#41
 2,4,6-Tribromophenol
 Concen: 37.497 ng
 RT: 10.25 min Scan# 1439
 Delta R.T. -0.07 min
 Lab File: BF097384.D
 Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	87318		
332	95.5	76.6	115.0	
141	42.5	31.4	47.2	





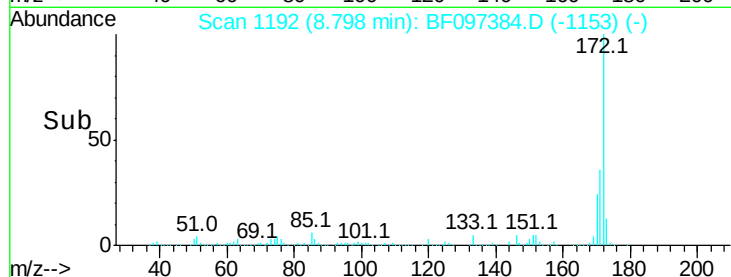
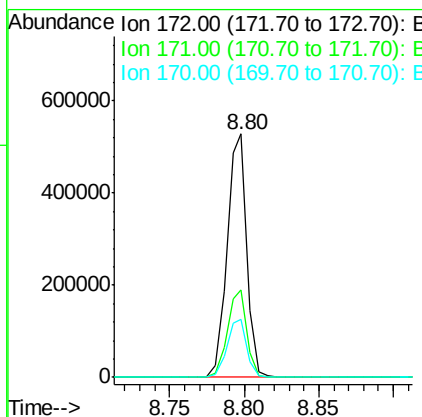
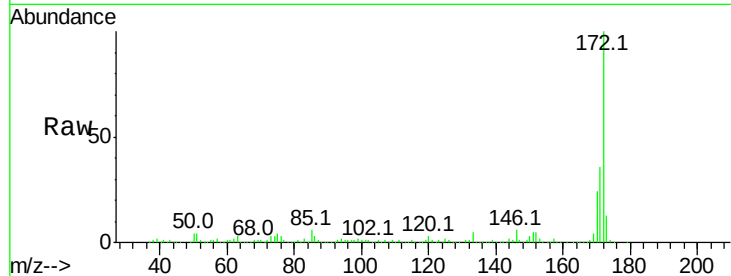
#44
2-Fluorobiphenyl
Concen: 28.492 ng
RT: 8.80 min Scan# 1192
Delta R.T. -0.07 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Instrument :
BNA_F
ClientSampleId :
E2-N9-BASE

Tot Ion	Ratio	Resp	Lower	Upper
172	100	494812		
171	35.7		29.6	44.4
170	24.1		19.8	29.8

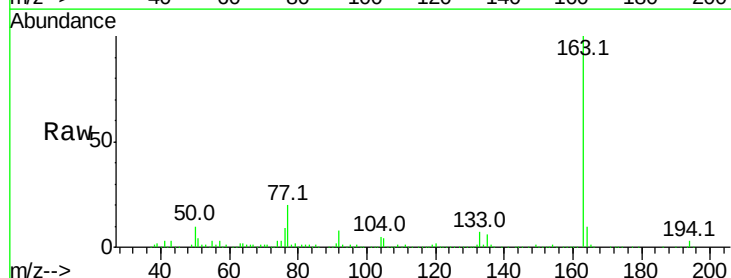
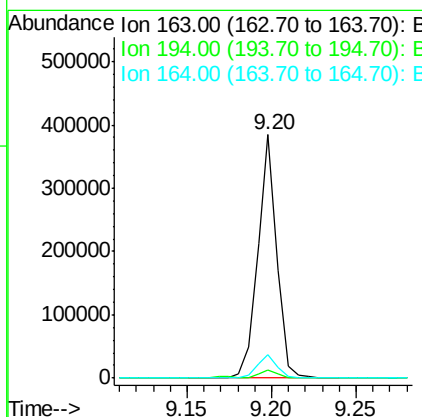
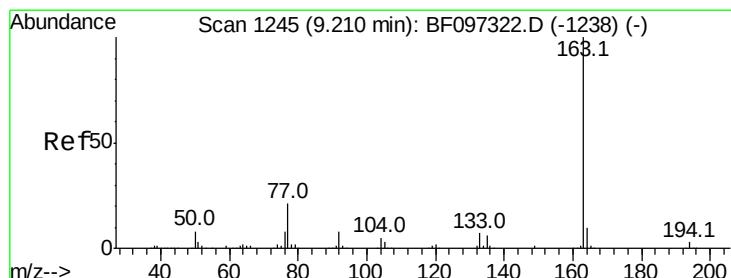
Manual Integrations
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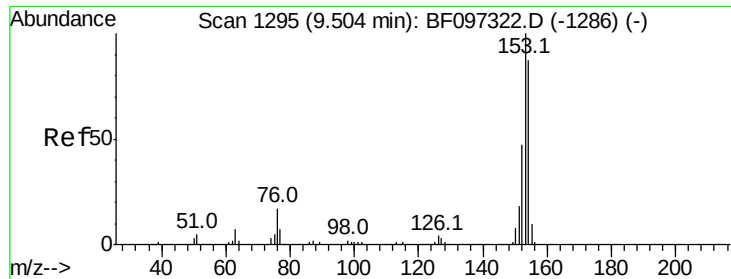
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#49
Dimethylphthalate
Concen: 13.375 ng
RT: 9.20 min Scan# 1260
Delta R.T. -0.08 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	299347		
194	3.1		2.6	4.0
164	9.7		8.4	12.6





#51

Acenaphthene

Concen: 2.441 ng

RT: 9.49 min Scan# 1310

Delta R.T. -0.08 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Instrument :

BNA_F

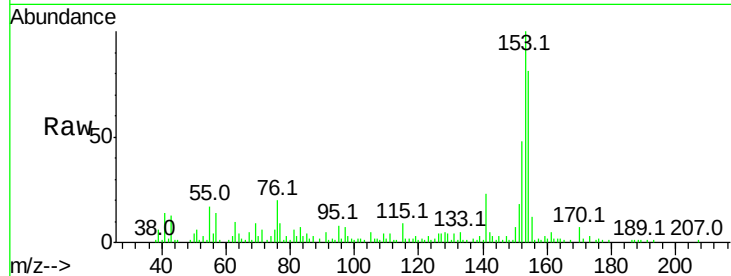
ClientSampleId :

E2-N9-BASE

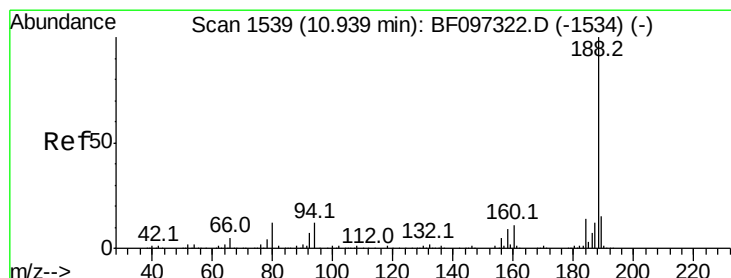
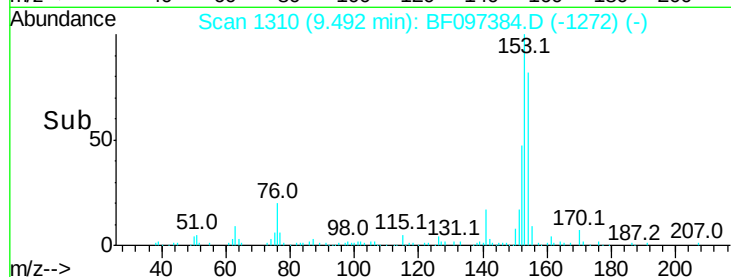
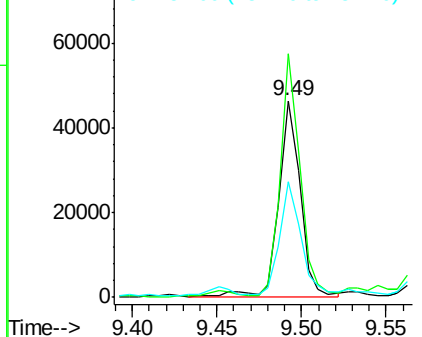
Tot Ion:	154	Resp:	40889
Ion	Ratio	Lower	Upper
154	100		
153	123.7	90.5	135.7
152	59.0	43.6	65.4

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 152.00 (151.70 to 152.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.93 min Scan# 1555

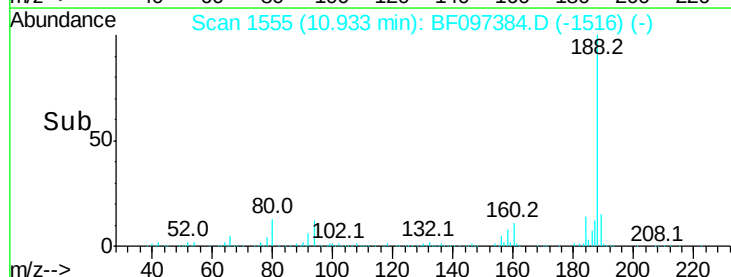
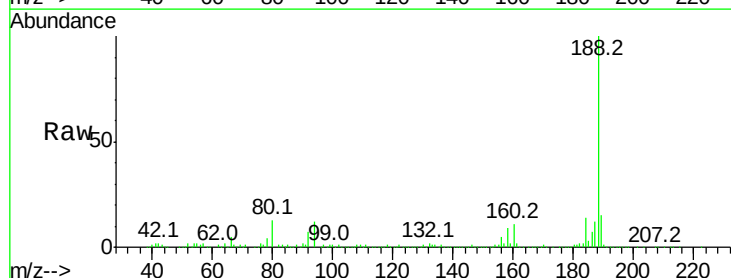
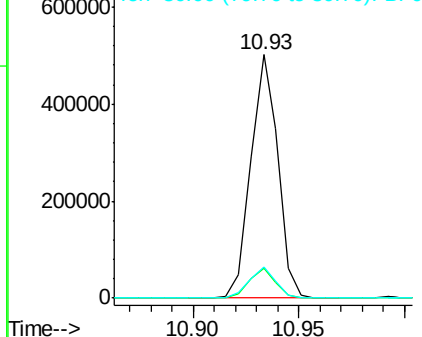
Delta R.T. -0.07 min

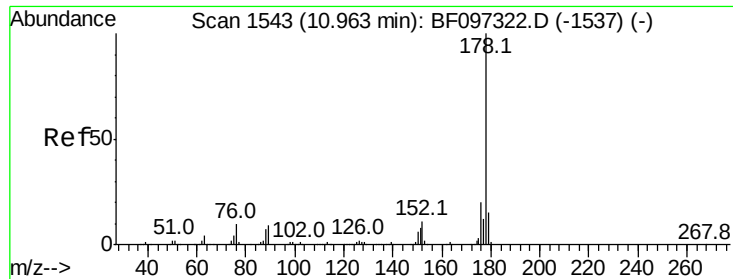
Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Tgt Ion:	188	Resp:	446456
Ion	Ratio	Lower	Upper
188	100		
94	12.1	9.4	14.2
80	12.6	10.2	15.2

Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 10.928 ng

RT: 10.96 min Scan# 1559

Delta R.T. -0.07 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Instrument :

BNA_F

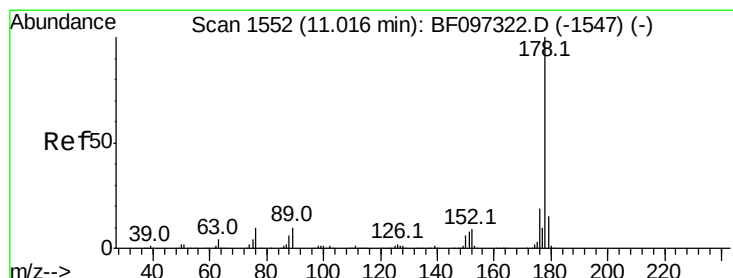
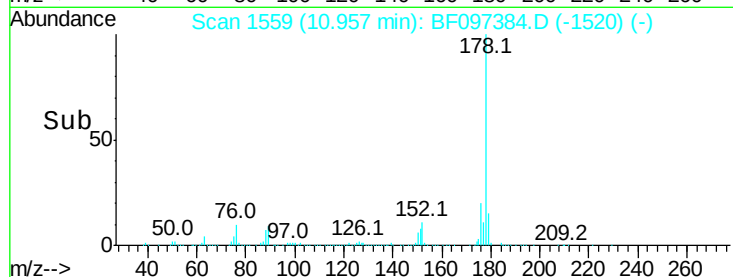
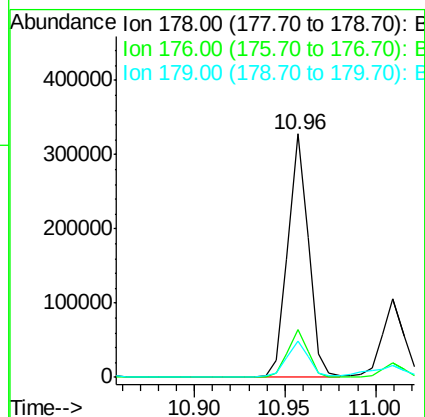
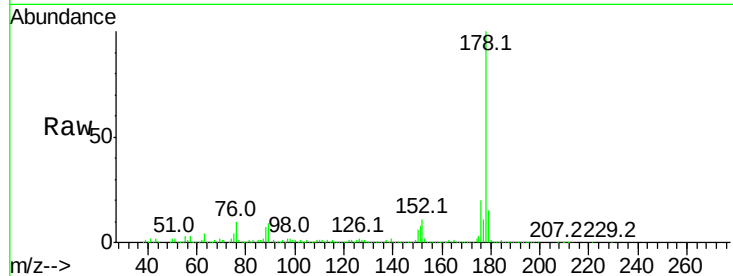
ClientSampled :

E2-N9-BASE

Tot Ion:178	Resp:	261405
Ion Ratio	Lower	Upper
178 100		
176 19.6	16.2	24.4
179 15.0	12.6	19.0

Manual Integrations
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#71

Anthracene

Concen: 3.488 ng

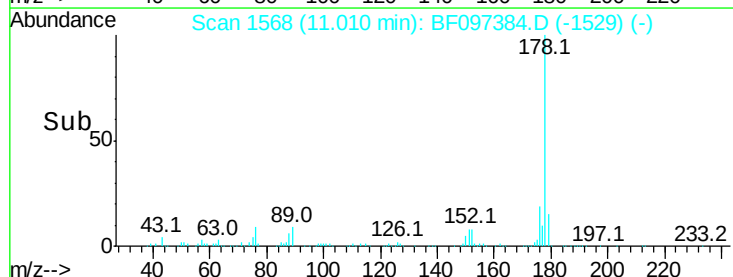
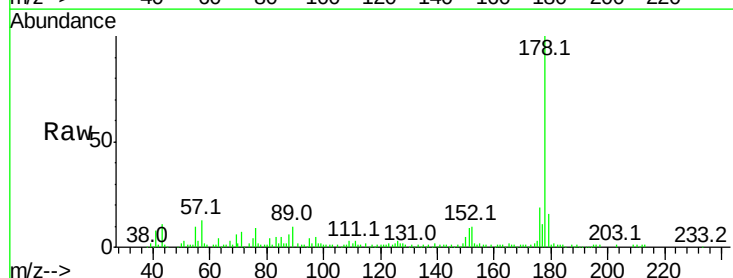
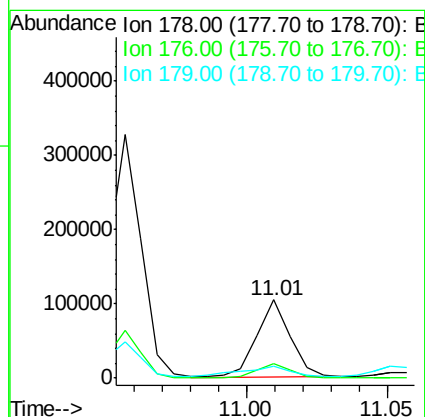
RT: 11.01 min Scan# 1568

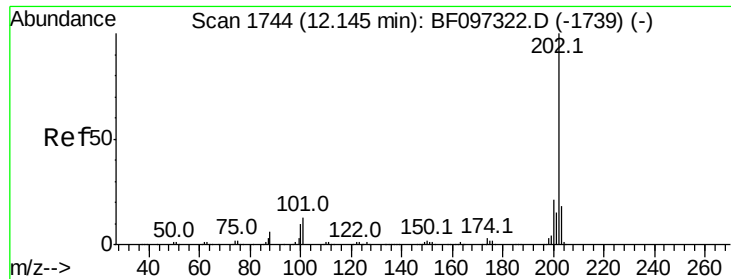
Delta R.T. -0.07 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Tgt Ion:178	Resp:	85466
Ion Ratio	Lower	Upper
178 100		
176 19.0	15.8	23.8
179 15.8	12.7	19.1





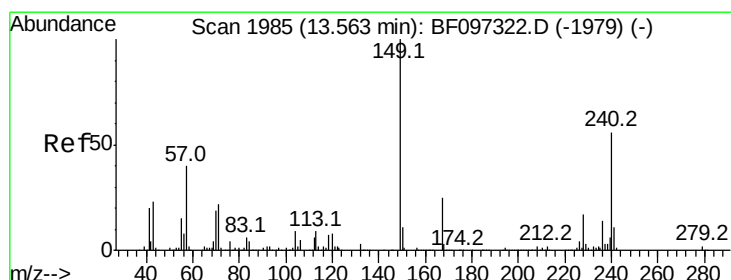
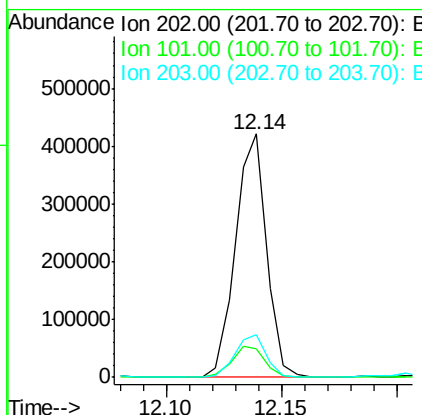
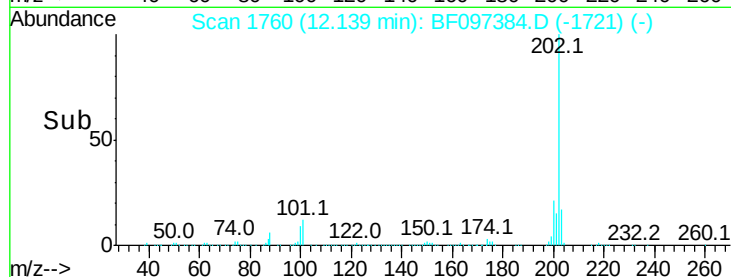
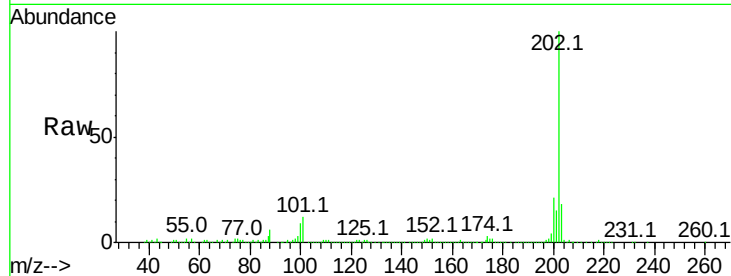
#74
Fluoranthene
Concen: 16.743 ng
RT: 12.14 min Scan# 1760
Delta R.T. -0.07 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Instrument :
BNA_F
ClientSampleId :
E2-N9-BASE

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.9	0.0	33.2
203	17.7	0.0	38.1

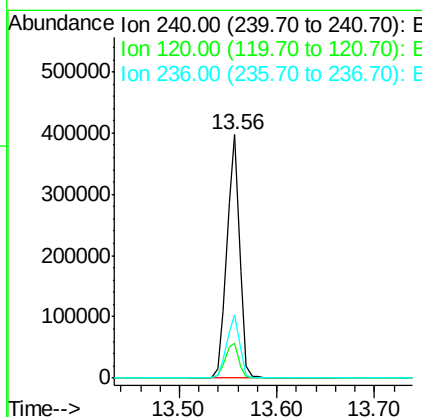
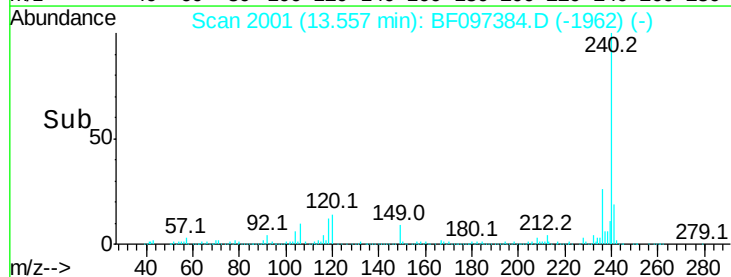
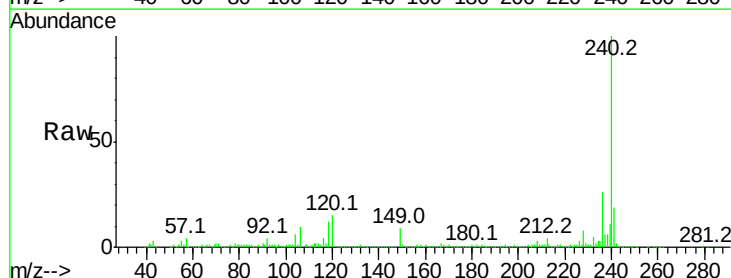
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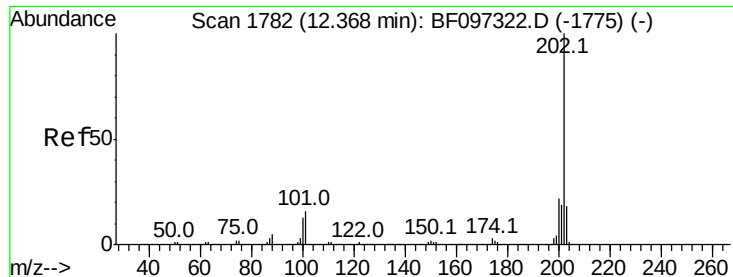
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#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.56 min Scan# 2001
Delta R.T. -0.07 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.6	5.8	8.8#
236	26.0	20.5	30.7





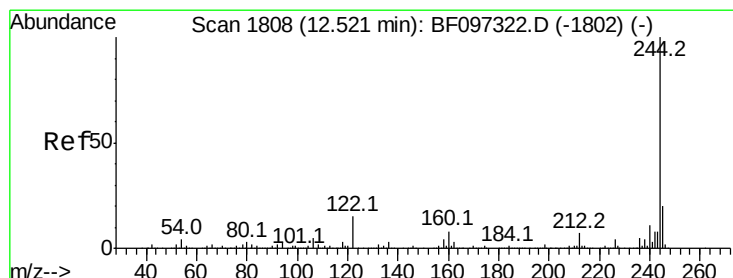
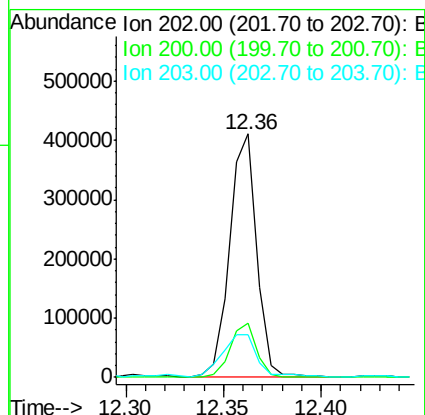
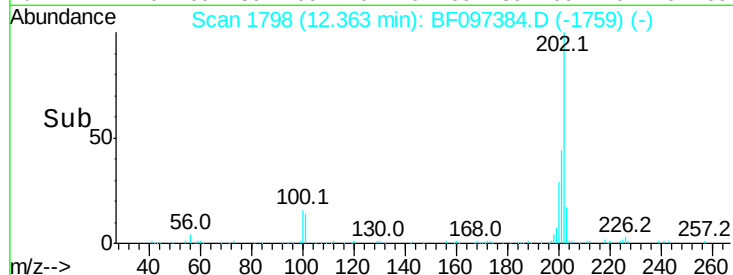
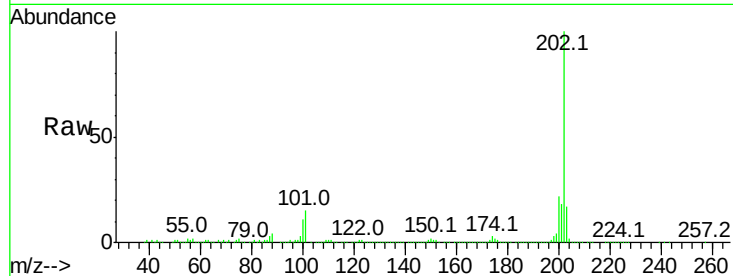
#77
Pvrene
Concen: 13.302 ng
RT: 12.36 min Scan# 1798
Delta R.T. -0.07 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Instrument :
BNA_F
ClientSampled :
E2-N9-BASE

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.2	17.6	26.4
203	17.5	14.4	21.6

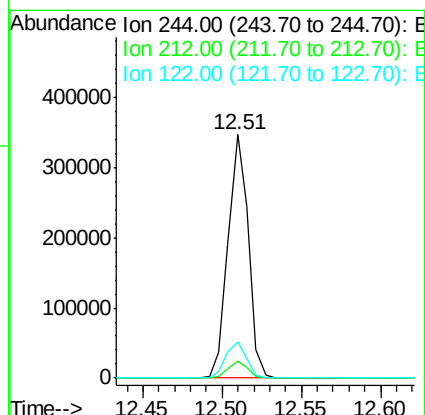
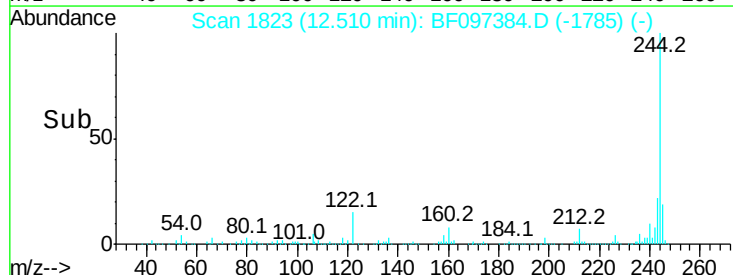
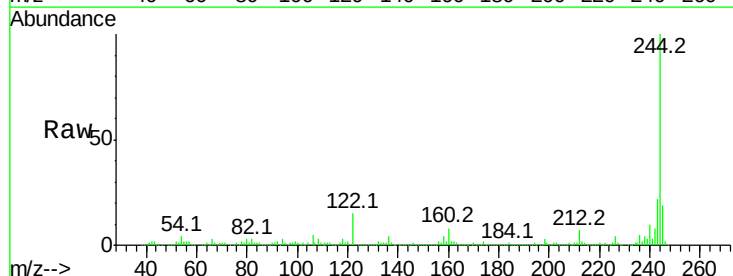
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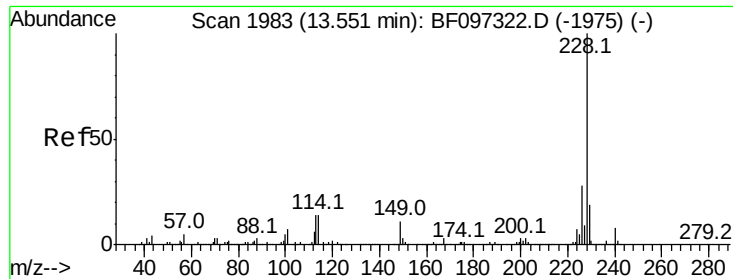
Sohil
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#78
Terphenyl-d14
Concen: 17.418 ng
RT: 12.51 min Scan# 1823
Delta R.T. -0.08 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.8	6.0	9.0
122	15.1	10.3	15.5





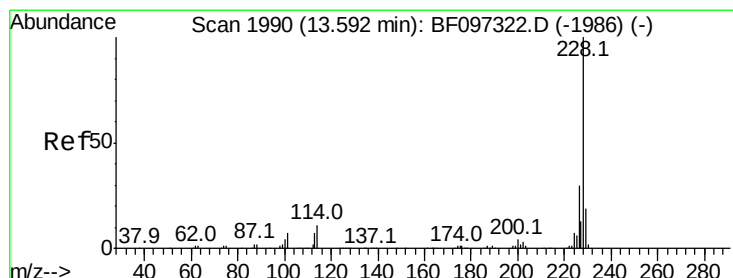
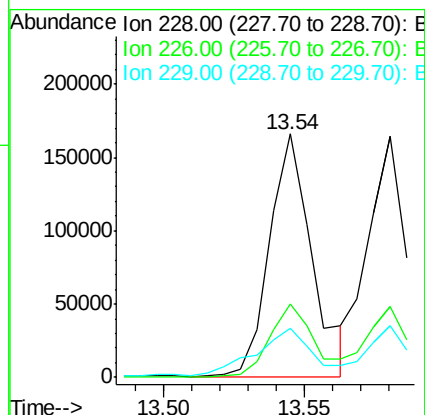
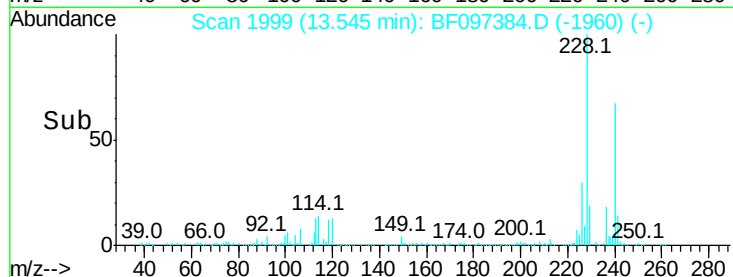
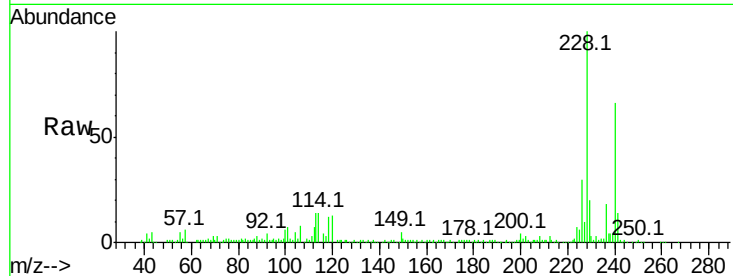
#80
Benzo(a)anthracene
Concen: 7.396 ng
RT: 13.54 min Scan# 1999
Delta R.T. -0.07 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Instrument :
BNA_F
ClientSampled :
E2-N9-BASE

Tot Ion	Ratio	Resp	Lower	Upper
228	100	172107		
226	30.4	22.6	33.8	
229	20.1	16.3	24.5	

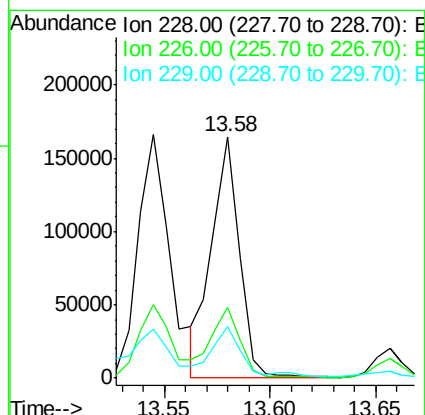
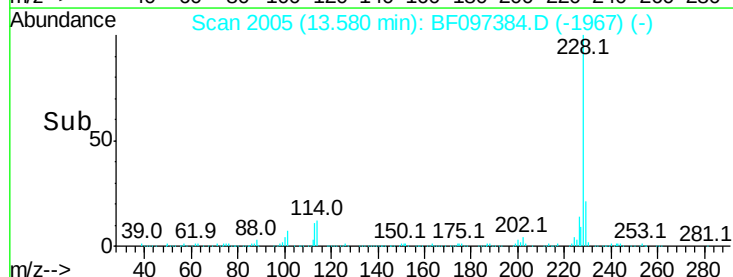
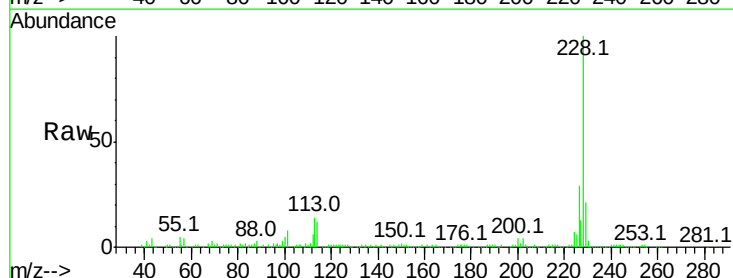
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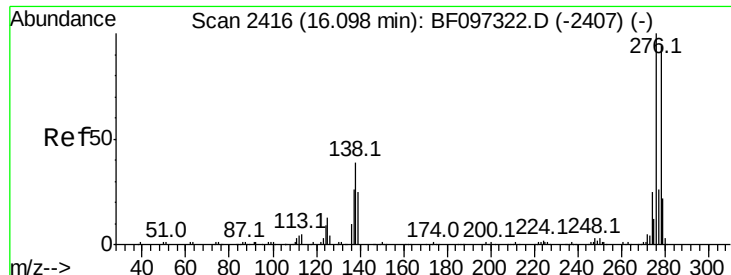
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#82
Chrysene
Concen: 6.632 ng
RT: 13.58 min Scan# 2005
Delta R.T. -0.08 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	150704		
226	29.3	24.9	37.3	
229	21.2	15.8	23.6	





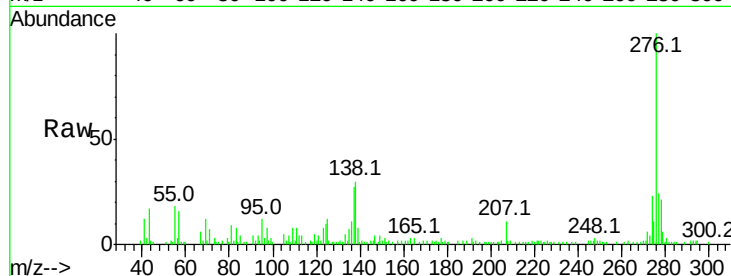
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.010 ng
RT: 16.09 min Scan# 2432
Delta R.T. -0.11 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Instrument :
BNA_F
ClientSampleId :
E2-N9-BASE

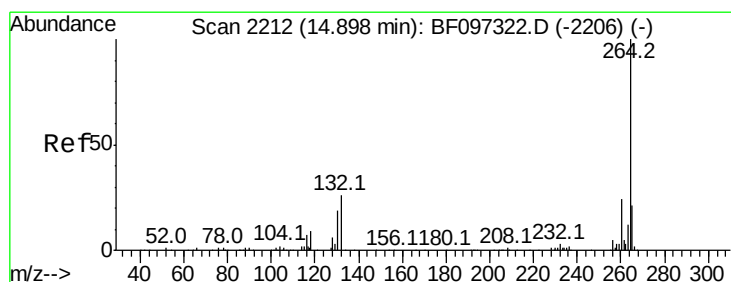
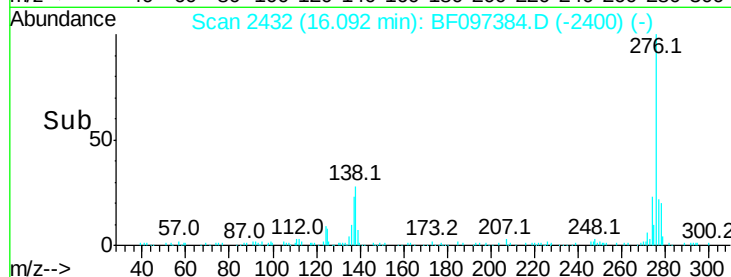
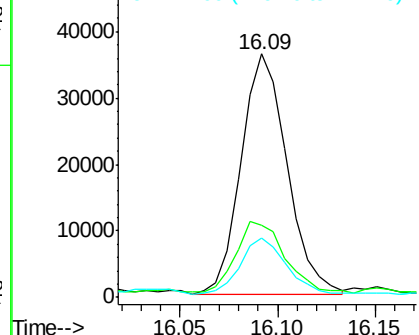
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.9	27.8	41.6
277	23.0	20.2	30.4

Manual Integrations
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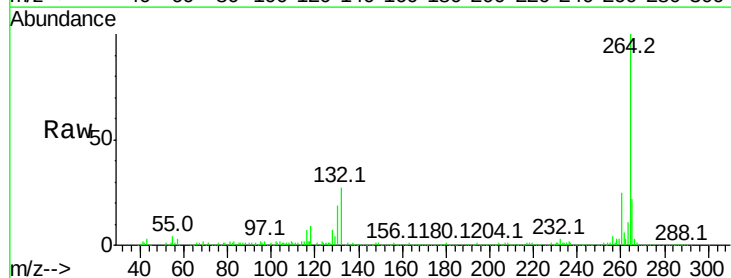


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

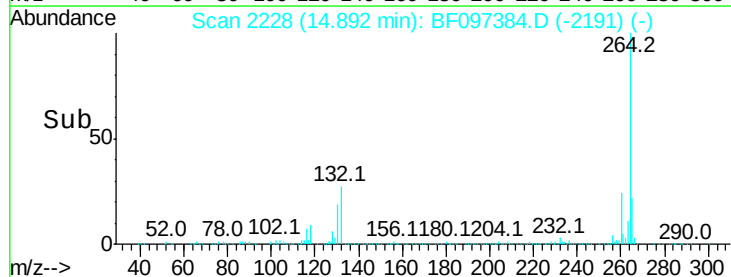
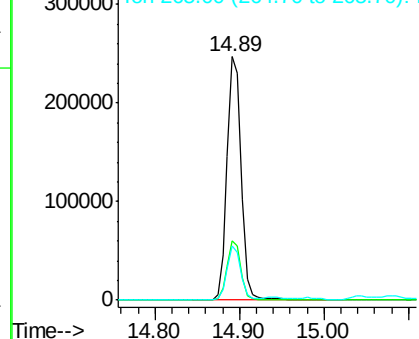


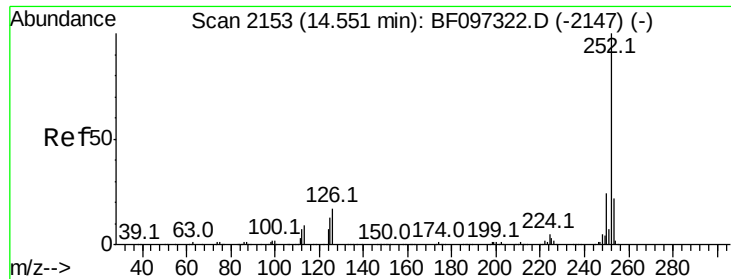
#86
Perylene-d12
Concen: 20.000 ng
RT: 14.89 min Scan# 2228
Delta R.T. -0.08 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.2	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: 8.877 ng m

RT: 14.54 min Scan# 2169

Delta R.T. -0.07 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Instrument :

BNA_F

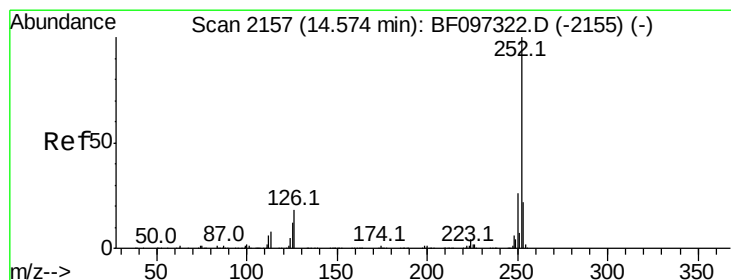
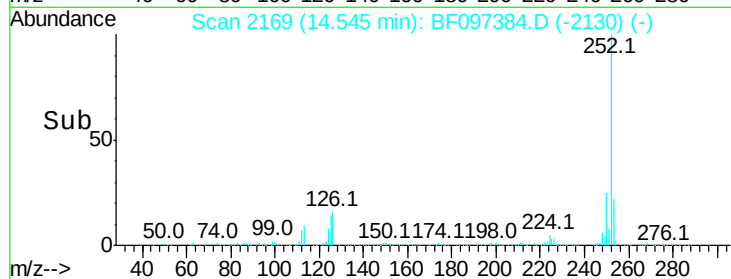
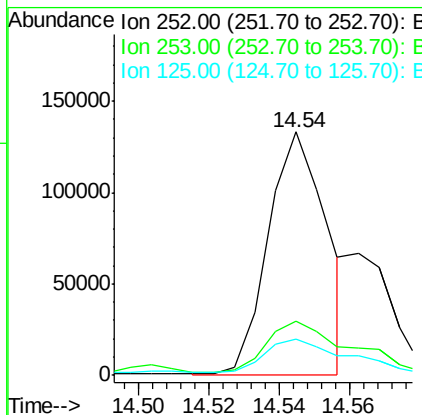
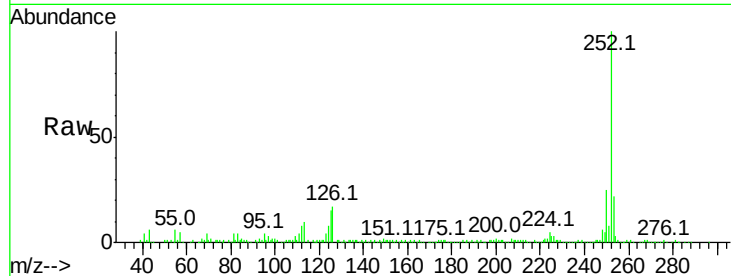
ClientSampleId :

E2-N9-BASE

Tot Ion:	252	Resp:	155498
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.1	27.1
125	14.9	9.8	14.8#

Manual Integrations
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8/7/2017 6:10:16 PM



#88

Benzo(k)fluoranthene

Concen: 3.498 ng m

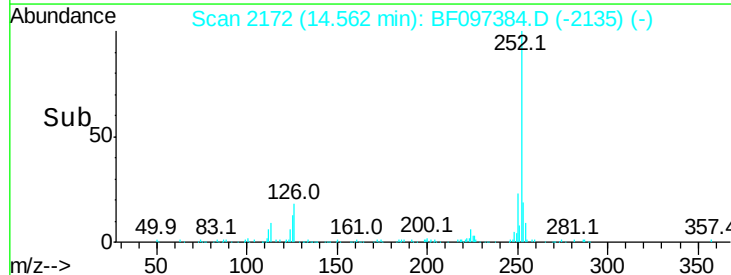
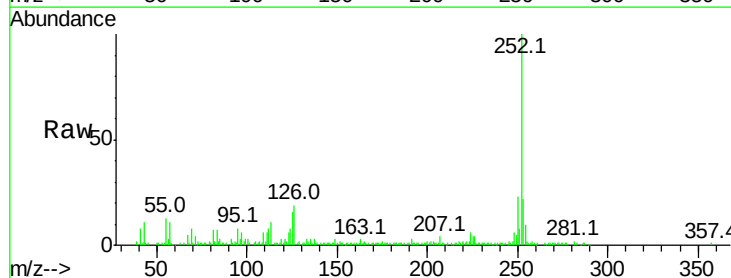
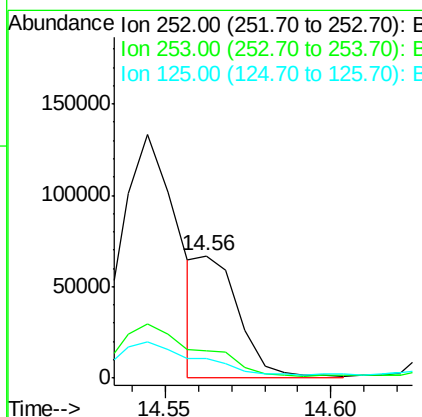
RT: 14.56 min Scan# 2172

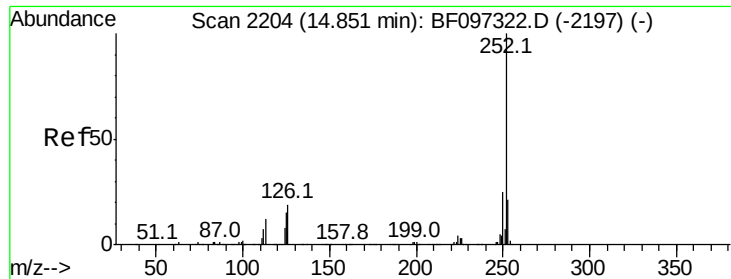
Delta R.T. -0.08 min

Lab File: BF097384.D

Acq: 5 Aug 2017 5:01

Tgt Ion:	252	Resp:	58384
Ion Ratio	Lower	Upper	
252	100		
253	22.1	18.4	27.6
125	16.1	13.1	19.7





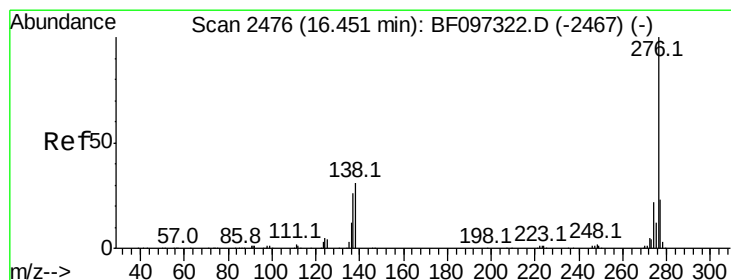
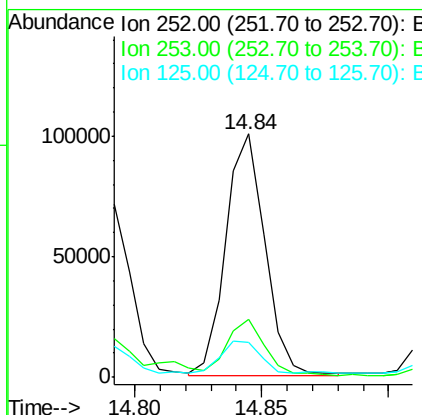
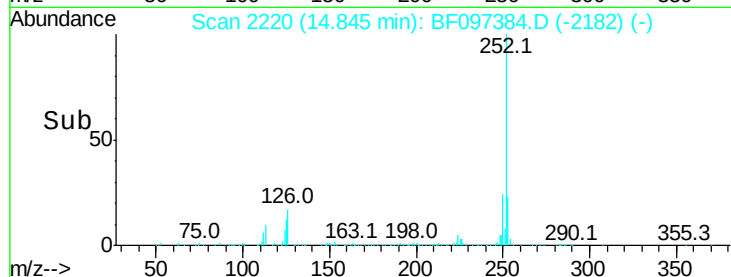
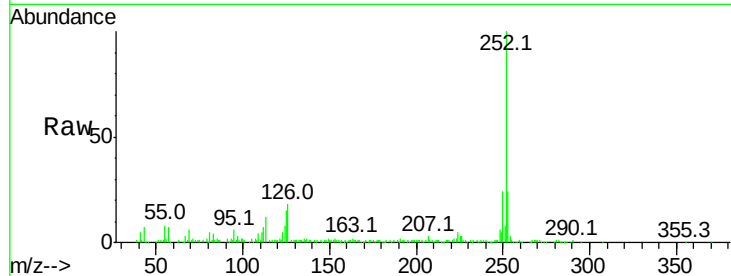
#89
Benzo(a)pyrene
Concen: 6.713 ng
RT: 14.84 min Scan# 2220
Delta R.T. -0.08 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Instrument :
BNA_F
ClientSampled :
E2-N9-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	14.6	11.0	16.4

Manual Integrations
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8/7/2017 6:10:16 PM



#91
Benzo(g,h,i)perylene
Concen: 3.902 ng m
RT: 16.45 min Scan# 2493
Delta R.T. -0.12 min
Lab File: BF097384.D
Acq: 5 Aug 2017 5:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.6	18.6	28.0#
138	31.4	25.4	38.0

