

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
 Data File : BF101637.D
 Acq On : 22 Dec 2017 6:14
 Operator : SJ/JU
 Sample : I6966-01
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DB-WW-3-0-4

Manual Integrations
 APPROVED

Sohil
 12/22/2017 12:42:28 PM

Quant Time: Dec 22 08:15:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 14:25:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	118432	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	503097	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	177314	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	283843	20.00	ng	0.00
75) Chrysene-d12	14.04	240	59090	20.00	ng	0.07
86) Perylene-d12	15.54	264	86896	20.00	ng	0.11
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	906095	113.96	ng	0.00
7) Phenol-d6	6.44	99	1098161	110.98	ng	0.00
23) Nitrobenzene-d5	7.37	82	592500	65.56	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	172726	101.09	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	950720	83.17	ng	0.00
78) Terphenyl-d14	12.93	244	393577	160.57	ng	0.02
Target Compounds						
10) Phenol	6.45	94	56541	5.013	ng	Qvalue # 64
31) Naphthalene	8.10	128	602706	23.796	ng	99
37) 2-Methylnaphthalene	8.79	142	276467	16.754	ng	99
49) Dimethylphthalate	9.55	163	60736	4.258	ng	# 98
51) Acenaphthene	9.87	154	285471	25.002	ng	99
54) Dibenzofuran	10.04	168	282584	19.475	ng	# 89
57) Fluorene	10.39	166	383326	31.229	ng	98
70) Phenanthrene	11.36	178	1879021	119.039	ng	99
71) Anthracene	11.41	178	492023	30.515	ng	98
72) Carbazole	11.57	167	223151	14.782	ng	95
74) Fluoranthene	12.57	202	1583800	95.591	ng	95
77) Pvrene	12.81	202	1201543	270.942	ng	97
80) Benzo(a)anthracene	14.04	228	375947	96.352	ng	# 93
82) Chrysene	14.07	228	196718m	53.398	ng	
83) Bis(2-ethylhexyl)phthalate	13.98	149	40578	15.966	ng	# 71
85) Indeno(1,2,3-cd)pyrene	17.04	276	326923	99.653	ng	# 85
87) Benzo(b)fluoranthene	15.11	252	345855m	65.299	ng	
88) Benzo(k)fluoranthene	15.12	252	129541m	25.155	ng	
89) Benzo(a)pvrene	15.49	252	265946	54.468	ng	# 77
90) Dibenzo(a,h)anthracene	17.03	278	74832	17.850	ng	# 61
91) Benzo(q,h,i)perylene	17.50	276	314760	75.825	ng	# 93

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

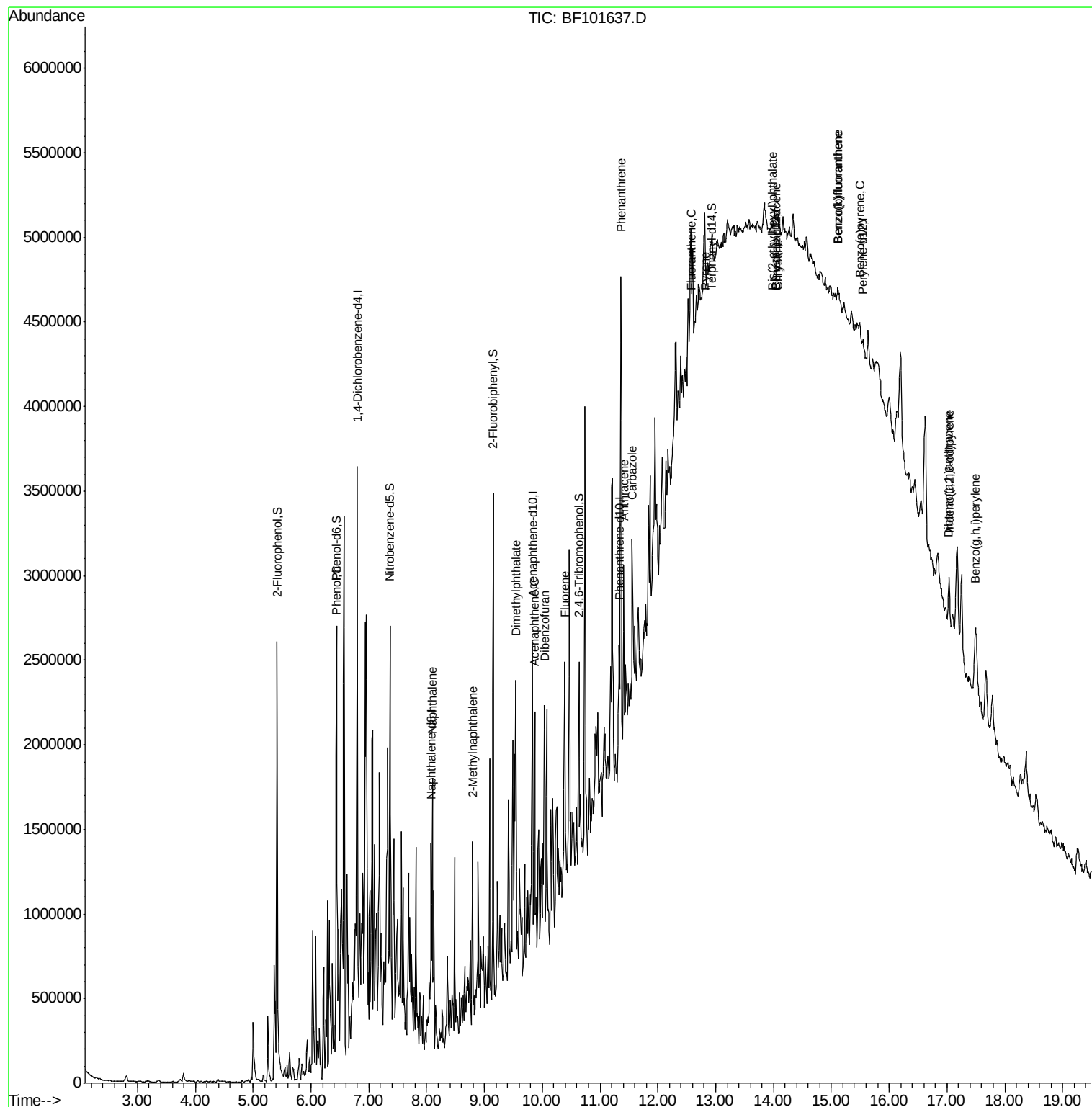
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
Data File : BF101637.D
Acq On : 22 Dec 2017 6:14
Operator : SJ/JU
Sample : I6966-01
Misc :
ALS Vial : 39 Sample Multiplier: 1

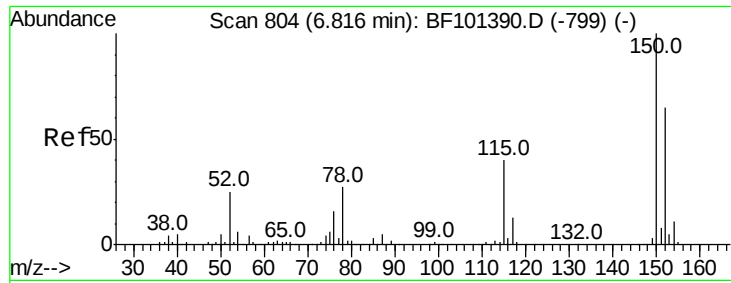
Instrument :
BNA_F
ClientSampled :
DB-WW-3-0-4

Manual Integrations
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12/22/2017 12:42:28 PM

Quant Time: Dec 22 08:15:04 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 20 14:25:04 2017
Response via : Initial Calibration





#1

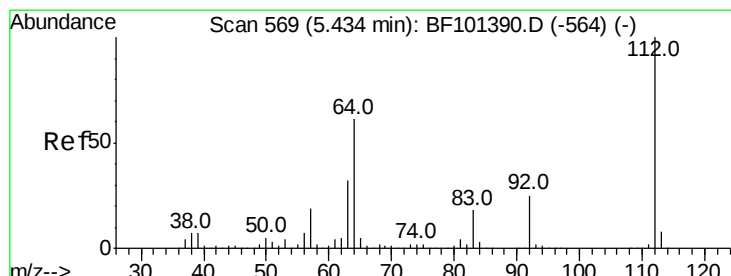
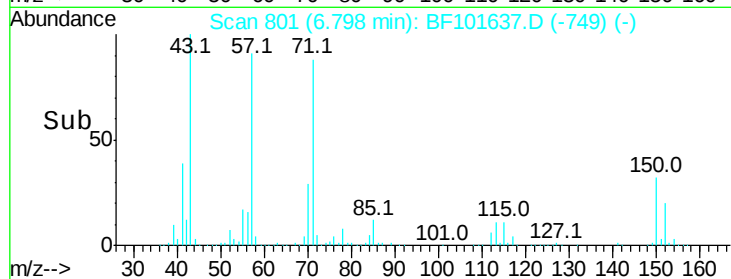
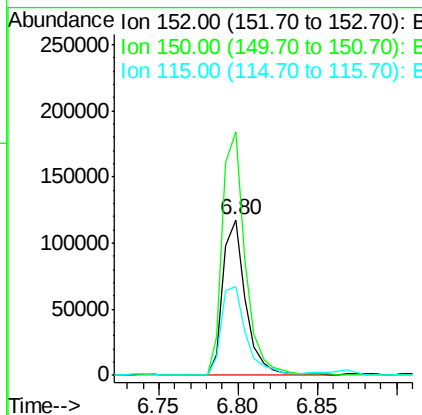
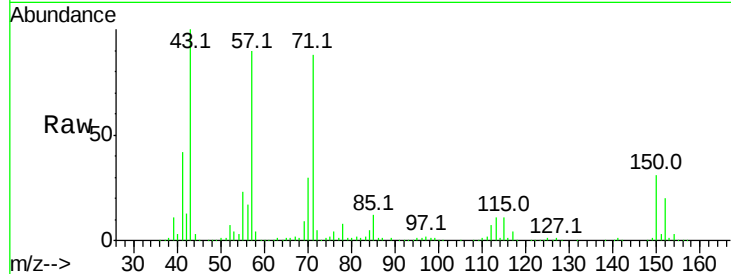
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.01 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Instrument :
BNA_F
ClientSampleId :
DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.6	186.8
115	56.9	50.1	75.1

Manual Integrations
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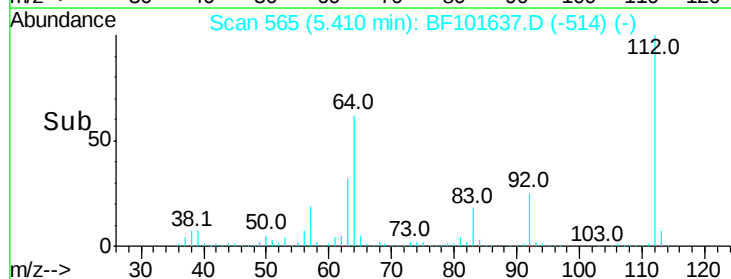
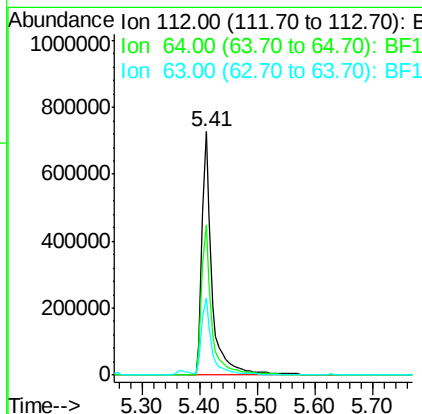
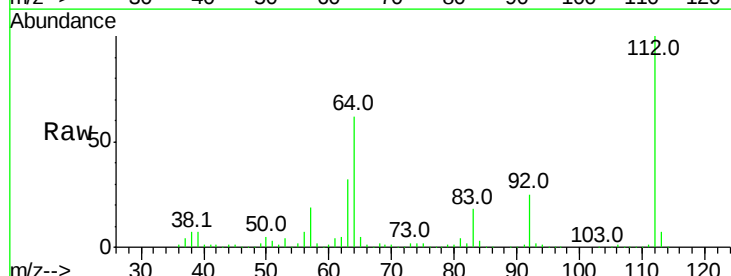
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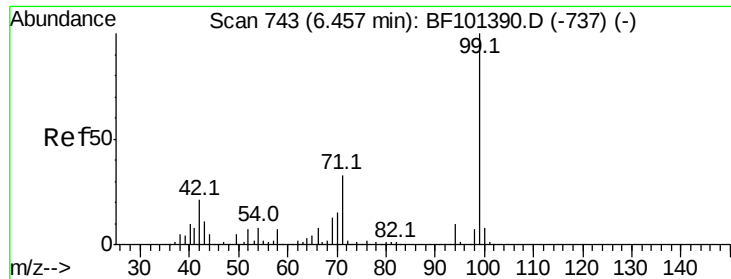


#5

2-Fluorophenol
Concen: 113.964 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.00 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.7	47.9	71.9
63	31.9	23.7	35.5





#7

Phenol-d6

Concen: 110.982 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

ClientSampled :

DB-WW-3-0-4

Tot Ion: 99 Resp: 1098161

Ion Ratio Lower Upper

99 100

42 21.6 14.5 21.7

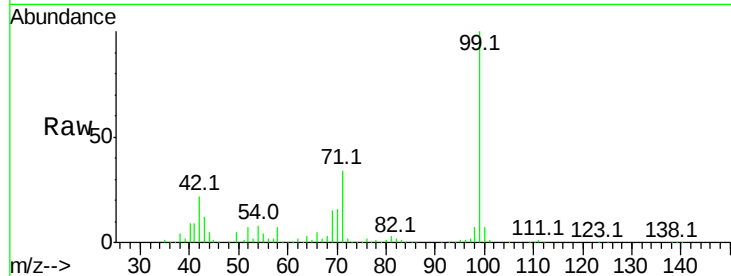
71 33.8 25.4 38.0

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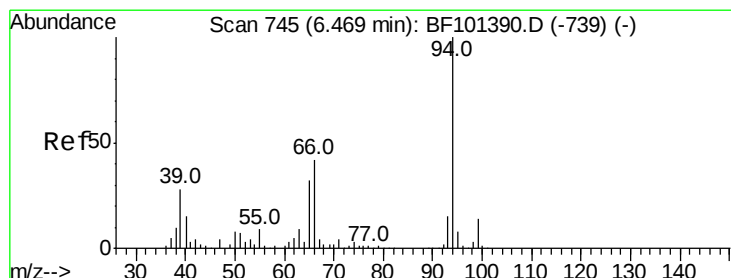
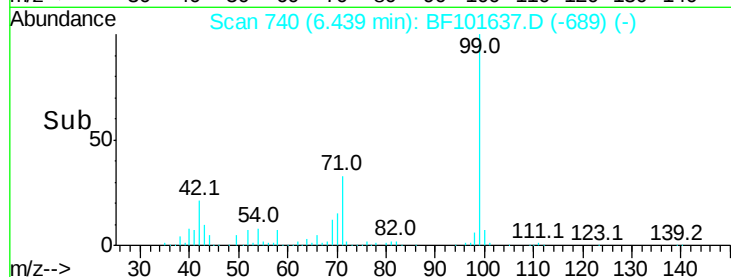
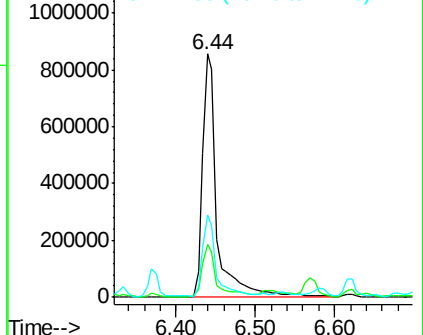
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 5.013 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

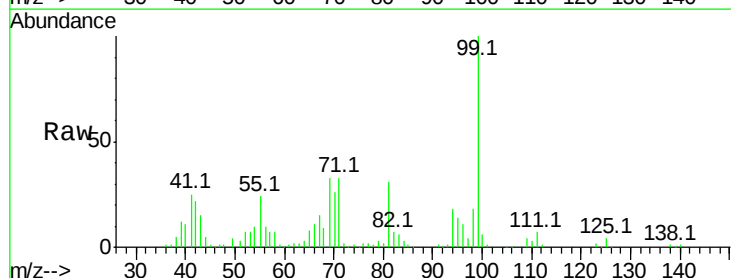
Tgt Ion: 94 Resp: 56541

Ion Ratio Lower Upper

94 100

65 42.2 7.9 47.9

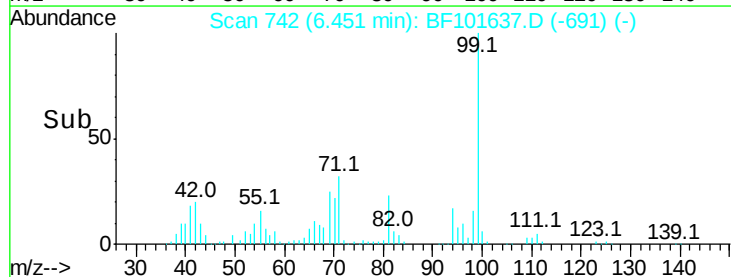
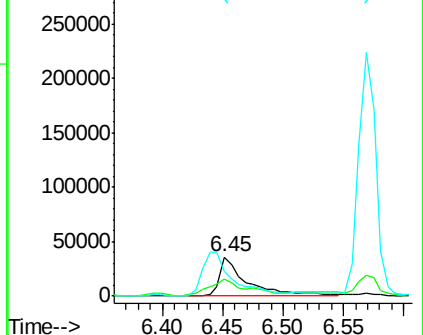
66 61.6 16.2 56.2#

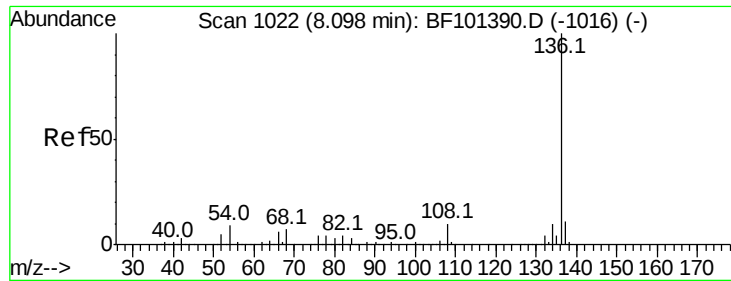


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





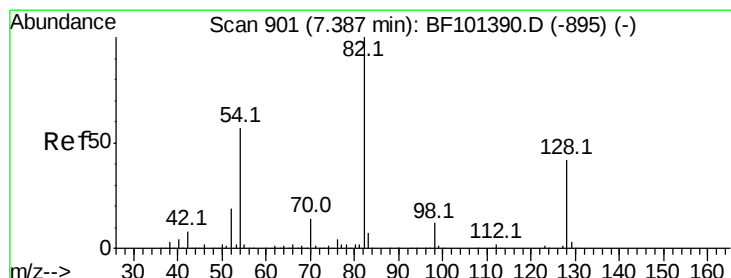
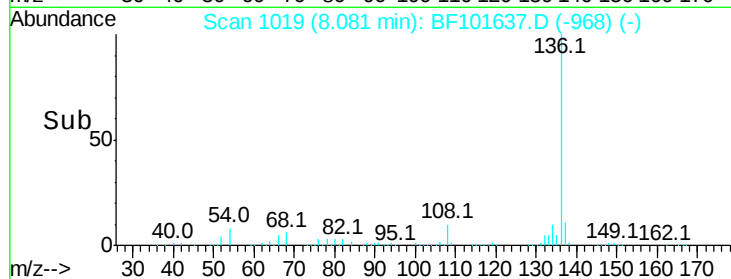
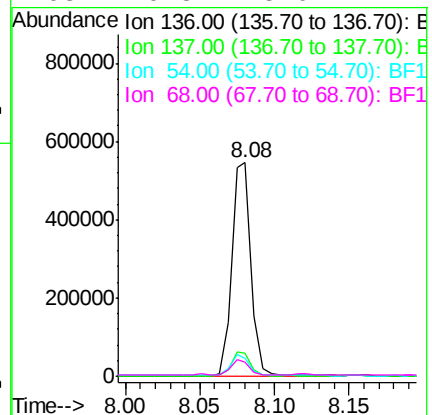
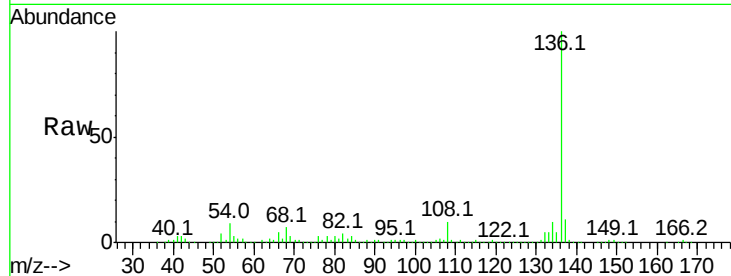
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.00 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Instrument :
BNA_F
ClientSampleId :
DB-WW-3-0-4

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.8	8.9	13.3
54	8.7	6.6	9.8
68	6.8	5.0	7.4

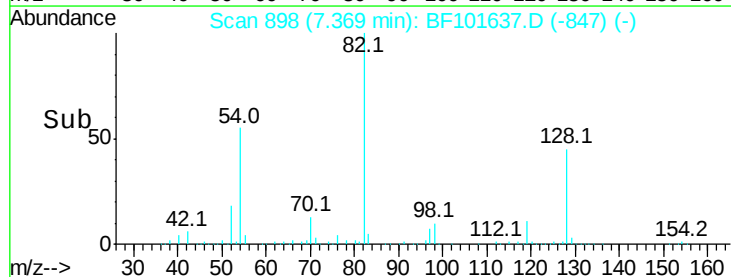
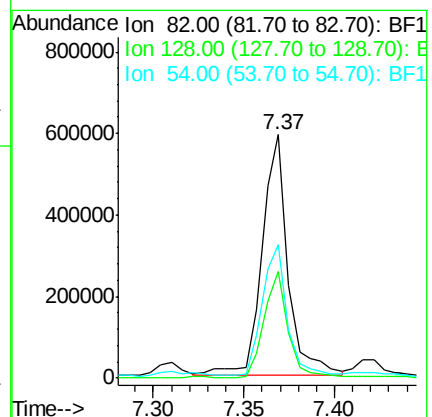
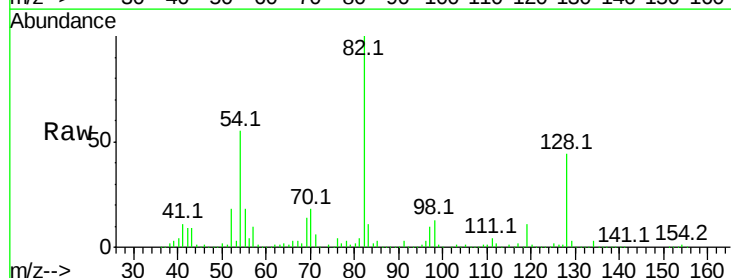
Manual Integrations
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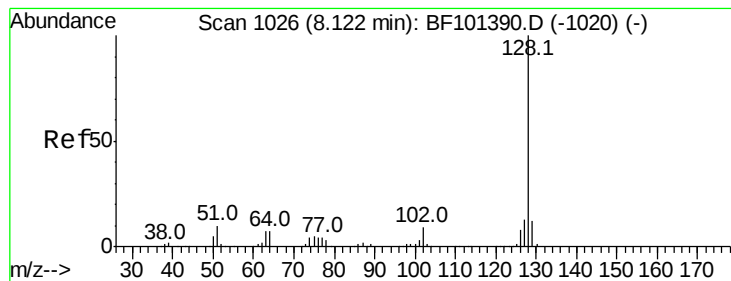
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#23
Nitrobenzene-d5
Concen: 65.558 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.00 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	43.7	36.1	54.1
54	55.1	41.4	62.2





#31

Naphthalene

Concen: 23.796 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

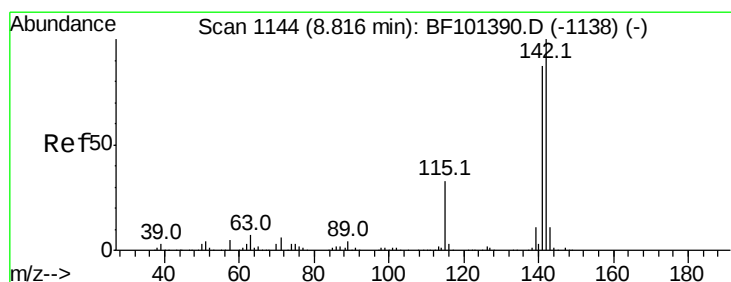
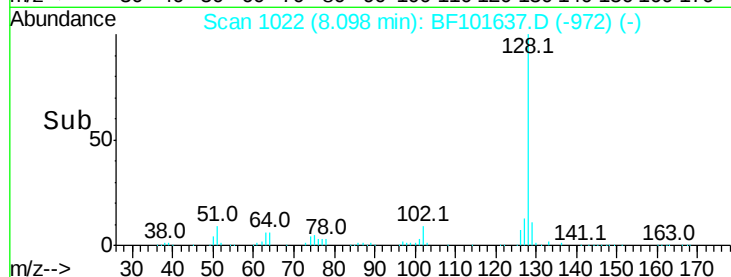
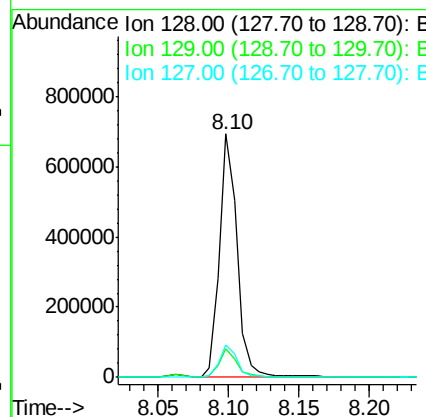
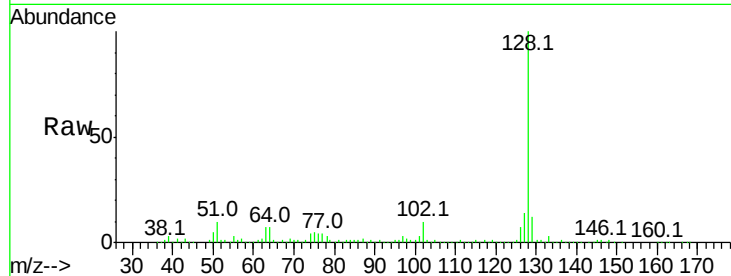
ClientSampleId :

DB-WW-3-0-4

Tot Ion:	128	Resp:	602706
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.8	13.2
127	13.5	10.9	16.3

Manual Integrations
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#37

2-Methylnaphthalene

Concen: 16.754 ng

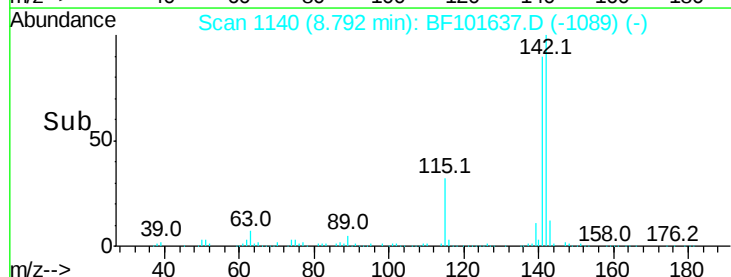
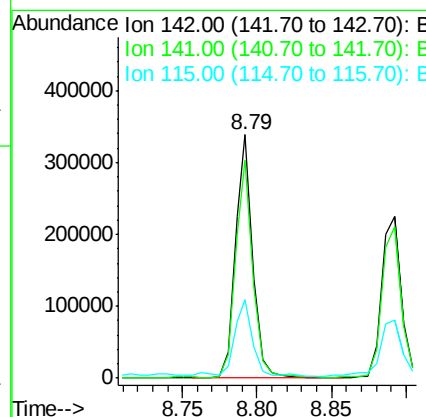
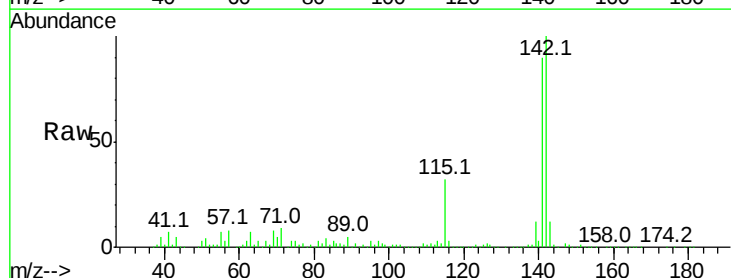
RT: 8.79 min Scan# 1140

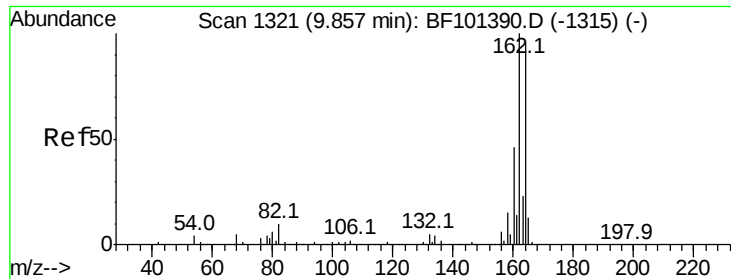
Delta R.T. -0.00 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Tgt Ion:	142	Resp:	276467
Ion Ratio	Lower	Upper	
142	100		
141	89.7	70.8	106.2
115	32.3	26.1	39.1





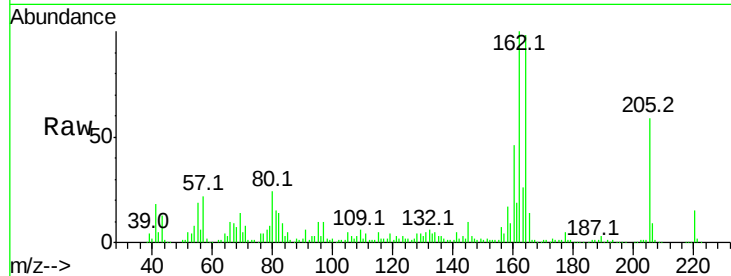
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.00 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Instrument :
BNA_F
ClientSampleId :
DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.4	86.1	129.1
160	46.7	38.3	57.5

Manual Integrations
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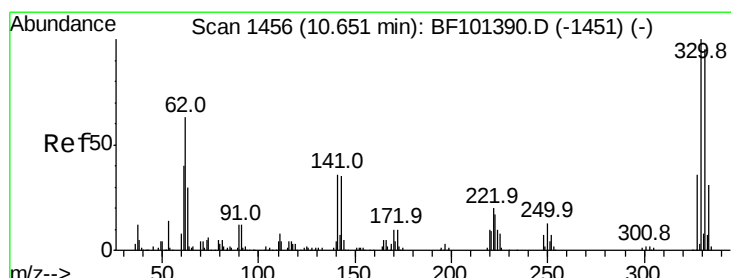
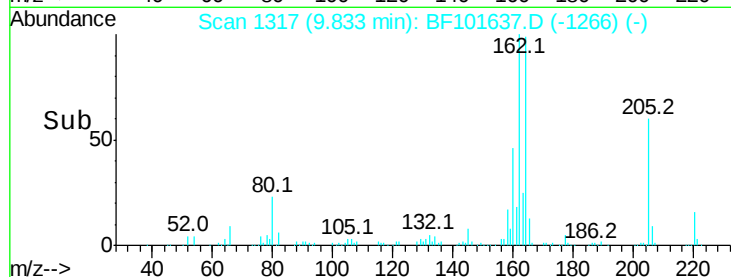
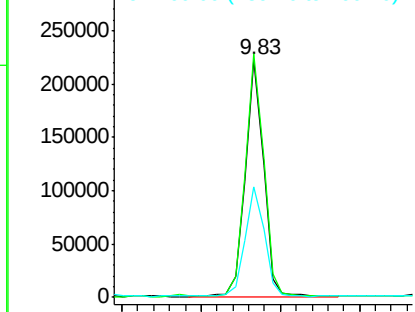


Abundance

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: 101.095 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.00 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

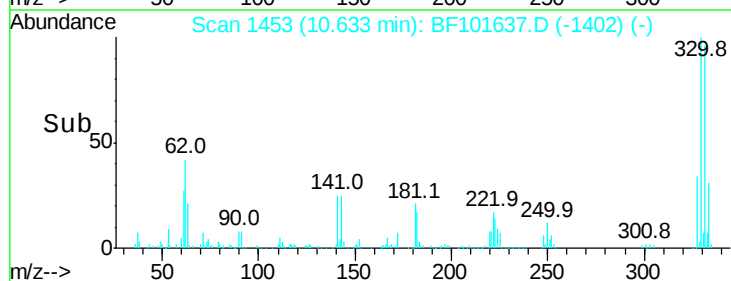
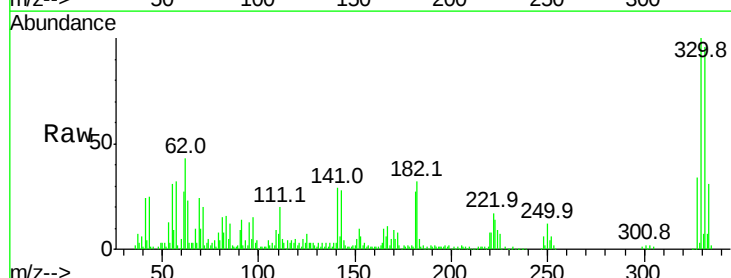
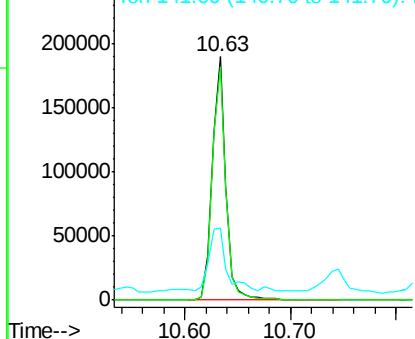
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.0	115.6
141	36.3	29.9	44.9

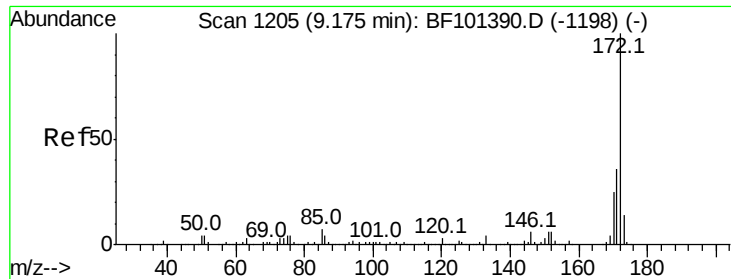
Abundance

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





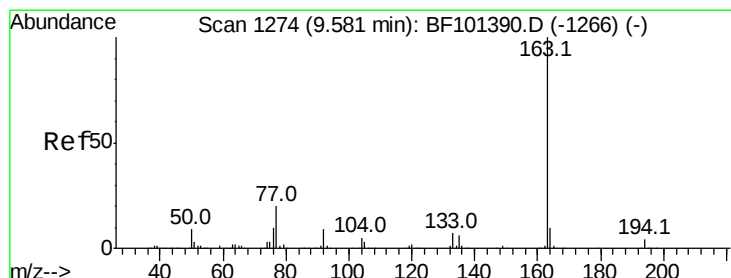
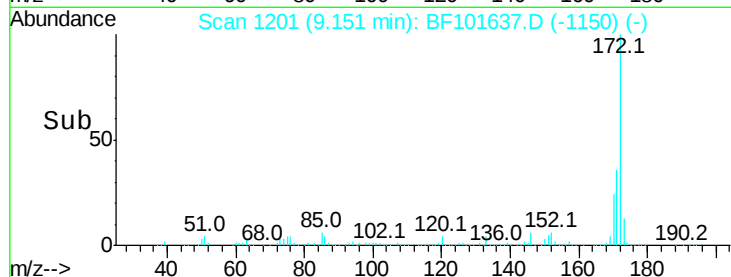
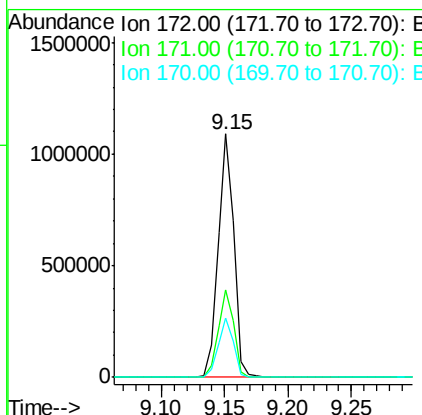
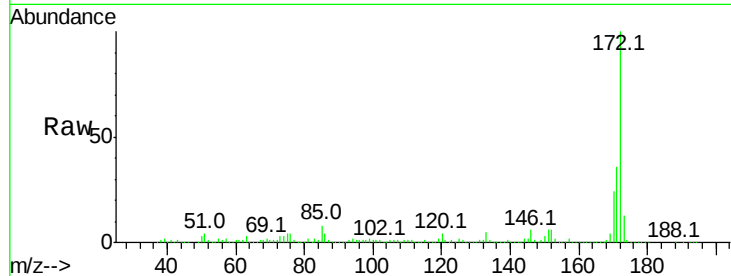
#44
2-Fluorobiphenyl
Concen: 83.174 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.00 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Instrument :
BNA_F
ClientSampled :
DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.7	44.5
170	24.5	19.6	29.4

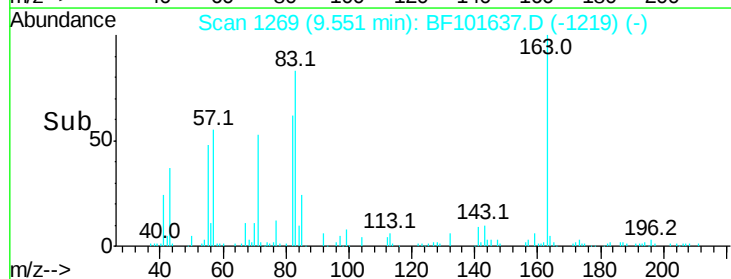
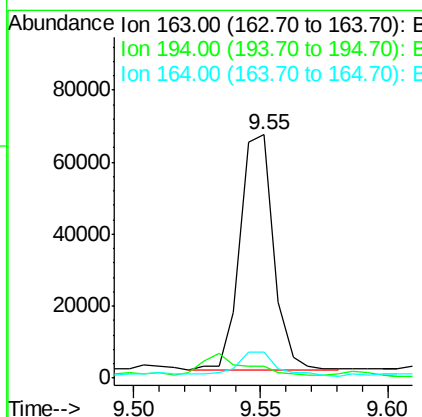
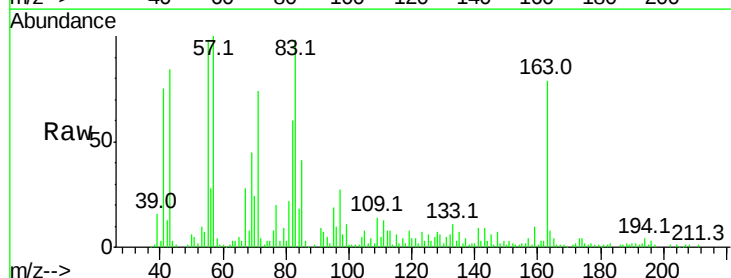
Manual Integrations
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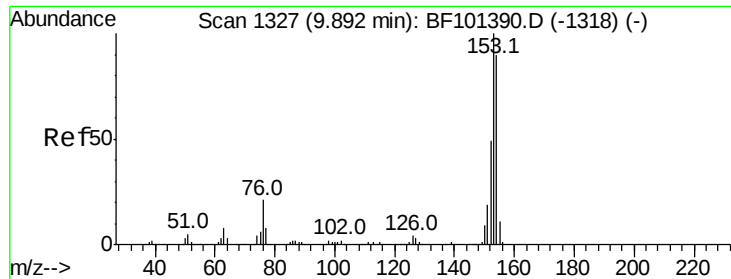
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#49
Dimethylphthalate
Concen: 4.258 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.01 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.7	2.7	4.1#
164	10.7	8.2	12.2





#51

Acenaphthene

Concen: 25.002 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

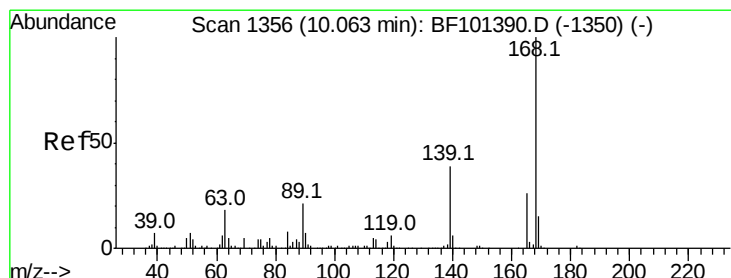
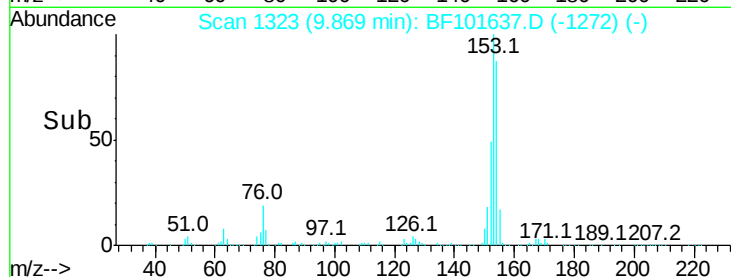
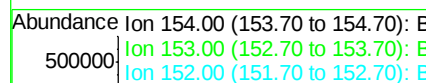
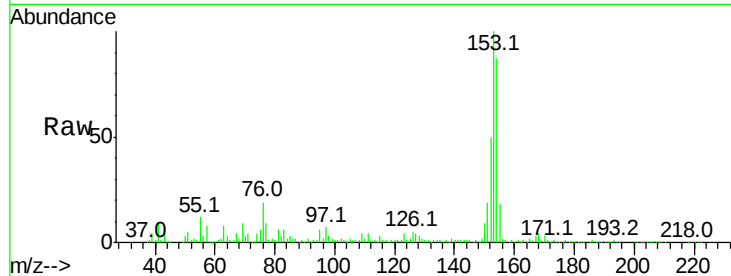
ClientSampled :

DB-WW-3-0-4

Tot Ion:	154	Resp:	285471
Ion Ratio	Lower	Upper	
154	100		
153	114.4	91.2	136.8
152	56.6	43.8	65.8

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#54

Dibenzofuran

Concen: 19.475 ng

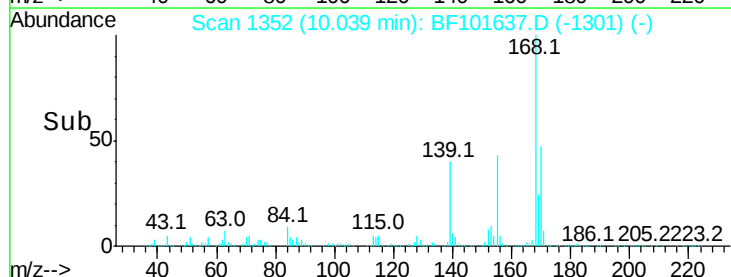
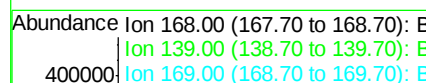
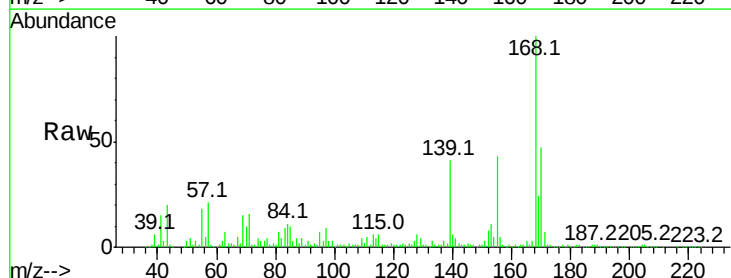
RT: 10.04 min Scan# 1352

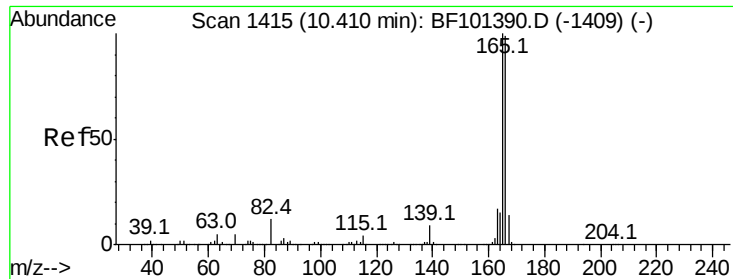
Delta R.T. -0.00 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Tgt Ion:	168	Resp:	282584
Ion Ratio	Lower	Upper	
168	100		
139	40.8	30.1	45.1
169	23.9	10.9	16.3#





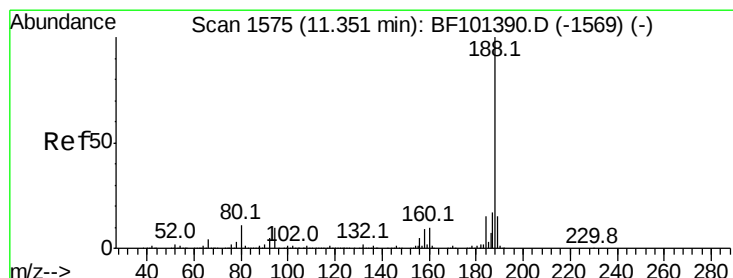
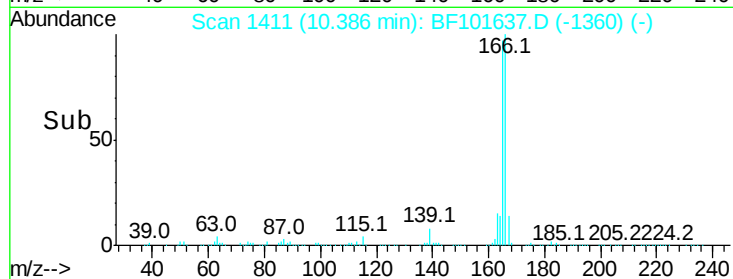
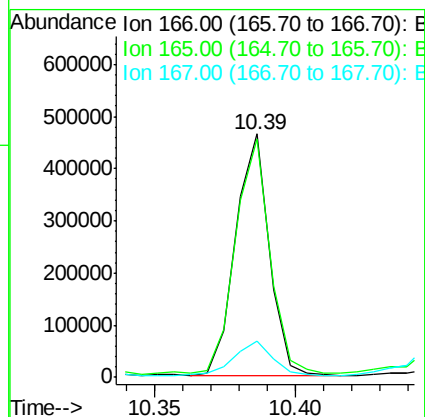
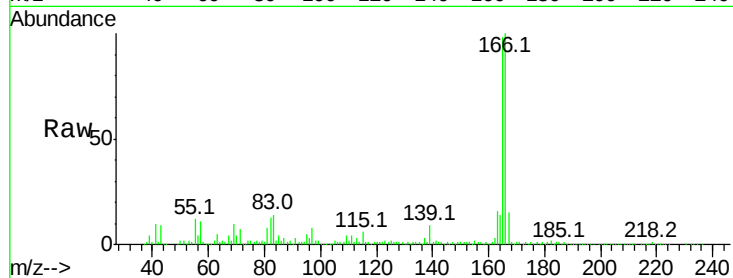
#57
Fluorene
 Concen: 31.229 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.00 min
 Lab File: BF101637.D
 Acq: 22 Dec 2017 6:14

Instrument :
 BNA_F
 ClientSampleId :
 DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.8	79.8	119.8
167	14.8	10.6	16.0

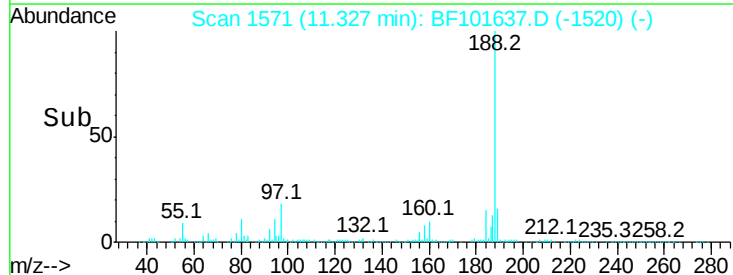
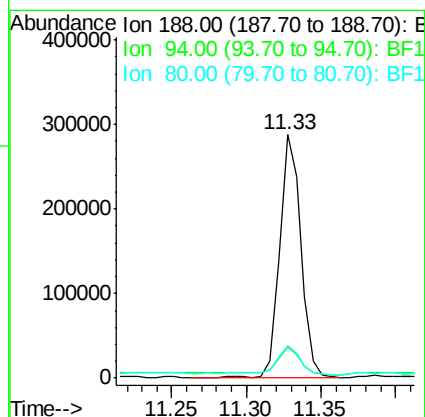
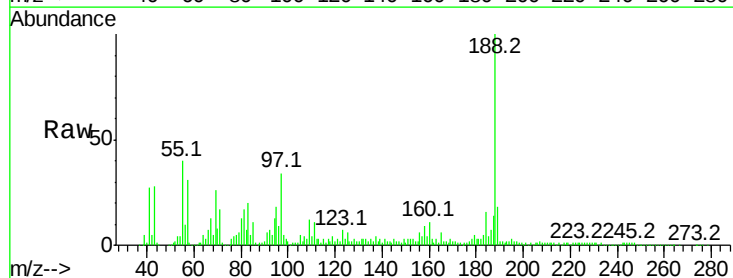
Manual Integrations
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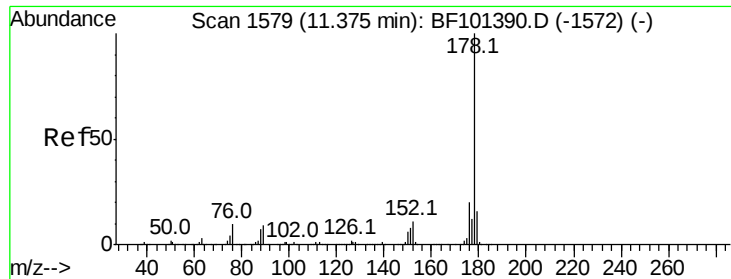
Sohil
 12/22/2017 12:42:28 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: BF101637.D
 Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.6	8.5	12.7
80	13.2	9.2	13.8





#70

Phenanthrene

Concen: 119.039 ng

RT: 11.36 min Scan# 1577

Delta R.T. 0.01 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

ClientSampleId :

DB-WW-3-0-4

Tot Ion:178 Resp: 1879021

Ion Ratio Lower Upper

178 100

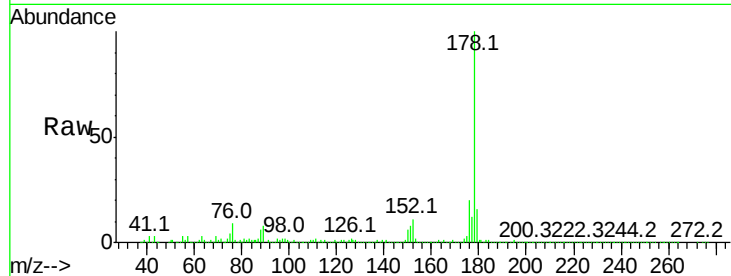
176 20.0 15.8 23.8

179 16.0 13.0 19.6

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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

11.36

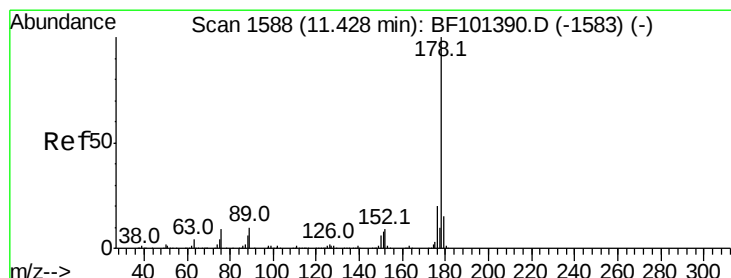
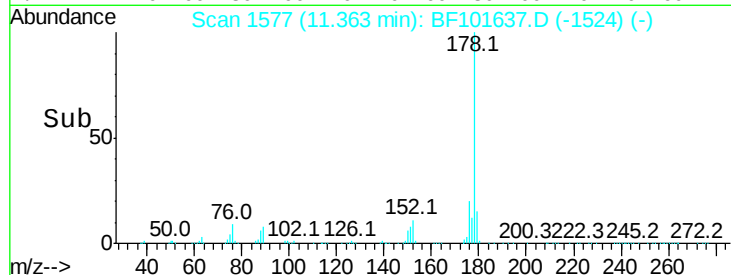
1500000

1000000

500000

0

Time-->



#71

Anthracene

Concen: 30.515 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

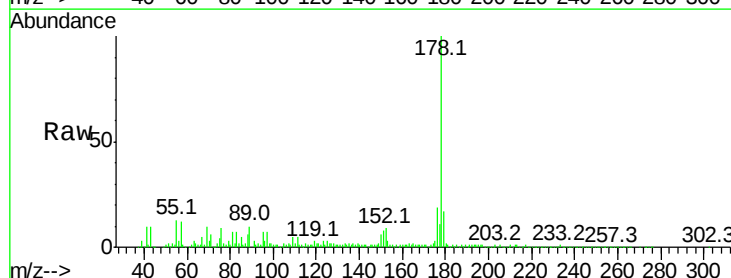
Tgt Ion:178 Resp: 492023

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 17.3 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

11.41

2000000

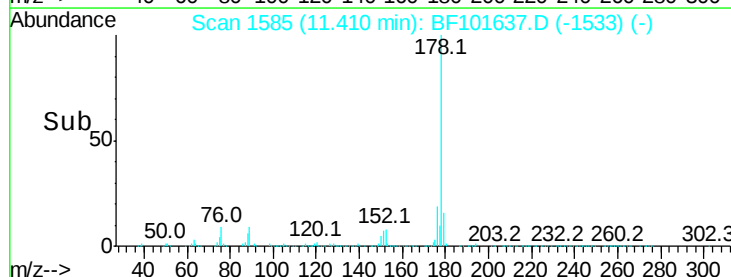
1500000

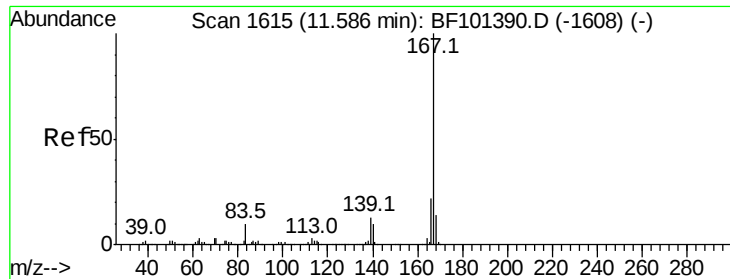
1000000

500000

0

Time-->





#72

Carbazole

Concen: 14.782 ng

RT: 11.57 min Scan# 1612

Delta R.T. 0.01 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

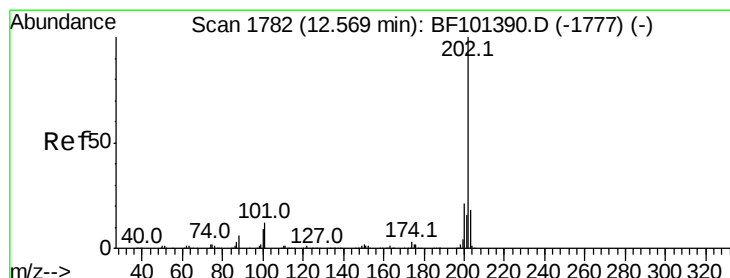
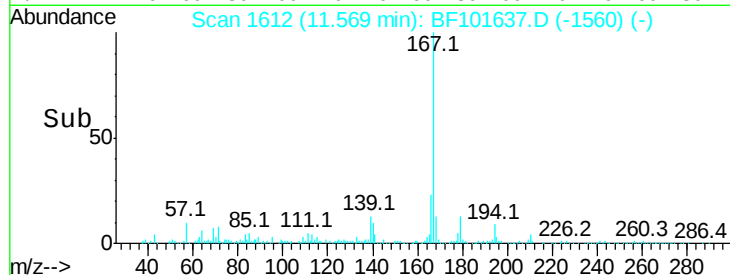
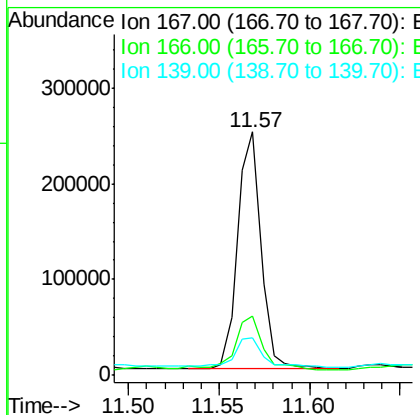
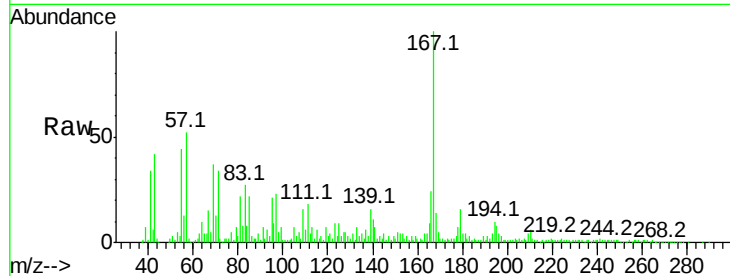
ClientSampleId :

DB-WW-3-0-4

Tot Ion:	167	Resp:	223151
Ion Ratio	Lower	Upper	
167	100		
166	24.2	17.6	26.4
139	15.7	10.9	16.3

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#74

Fluoranthene

Concen: 95.591 ng

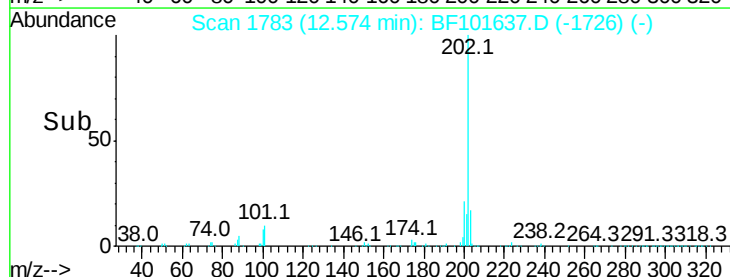
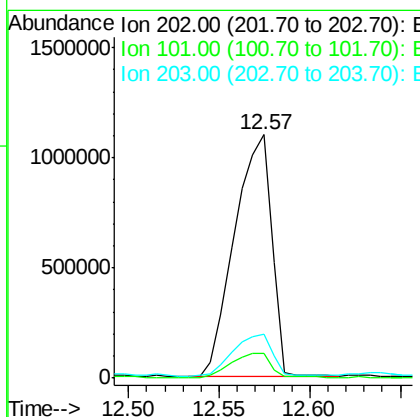
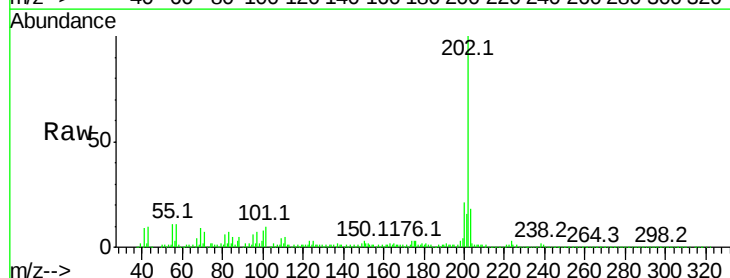
RT: 12.57 min Scan# 1783

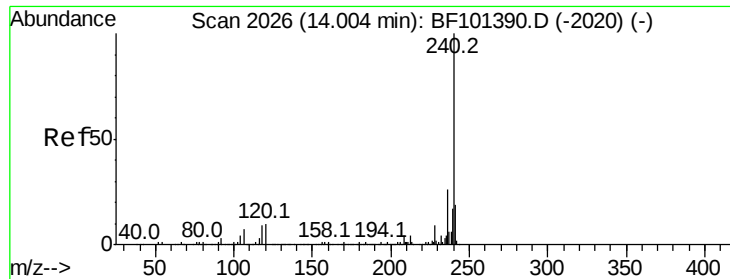
Delta R.T. 0.04 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Tgt Ion:	202	Resp:	1583800
Ion Ratio	Lower	Upper	
202	100		
101	10.2	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.07 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

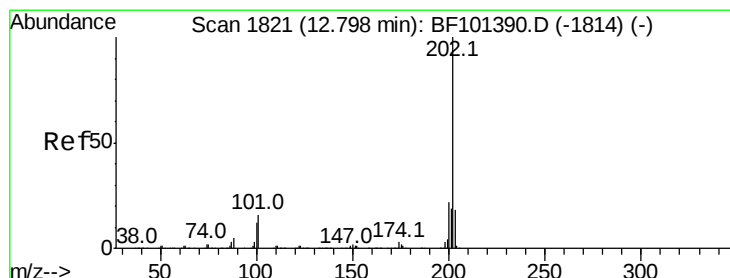
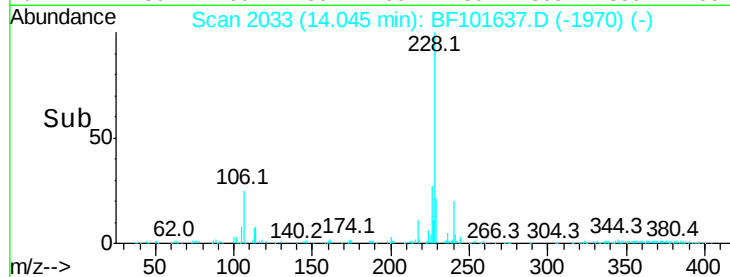
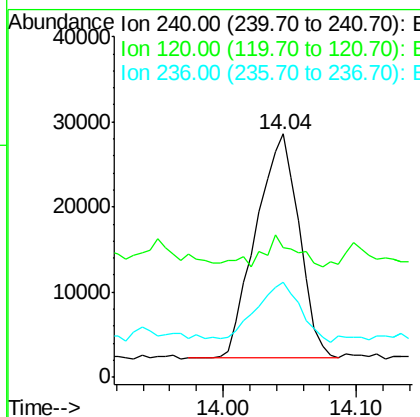
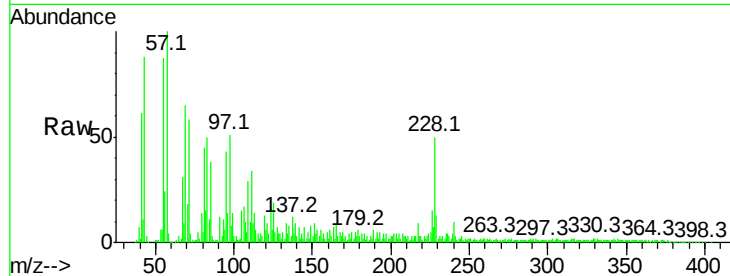
ClientSampleId :

DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
240	100		
120	53.5	9.5	14.3#
236	39.0	20.7	31.1#

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#77

Pyrene

Concen: 270.942 ng

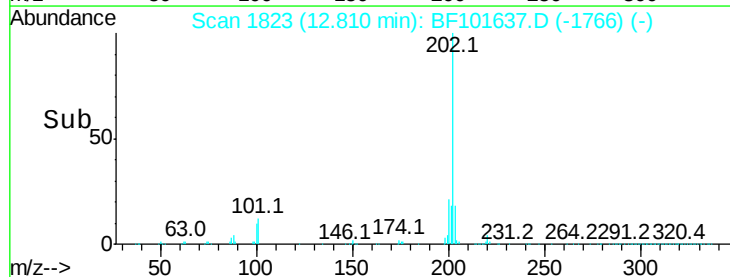
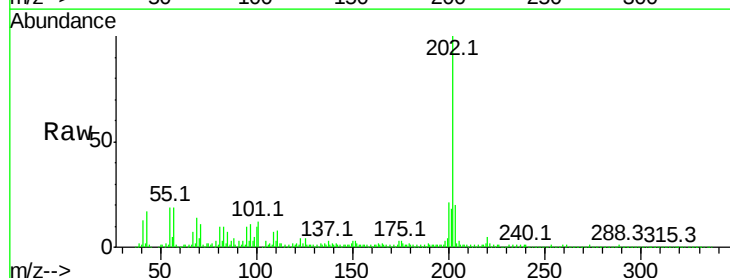
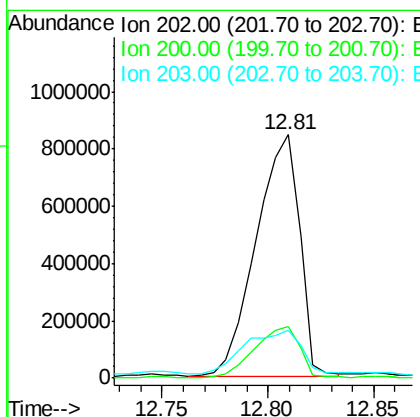
RT: 12.81 min Scan# 1823

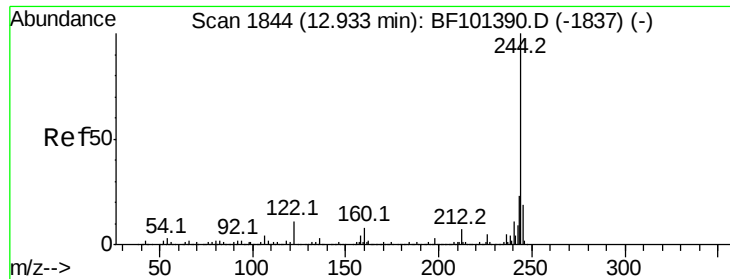
Delta R.T. 0.04 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2
203	19.8	14.3	21.5





#78

Terphenyl-d14

Concen: 160.573 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.02 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

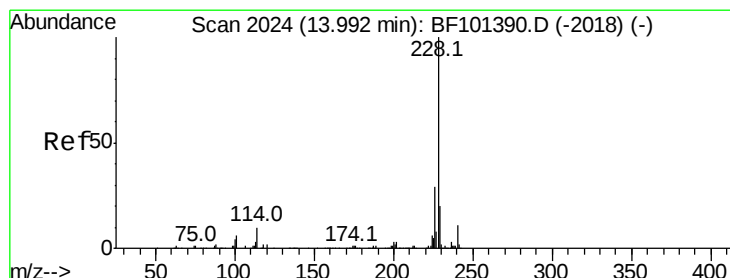
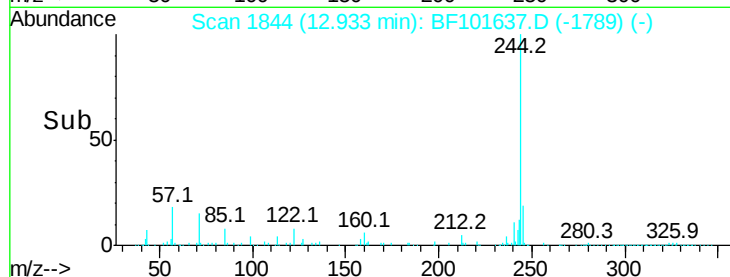
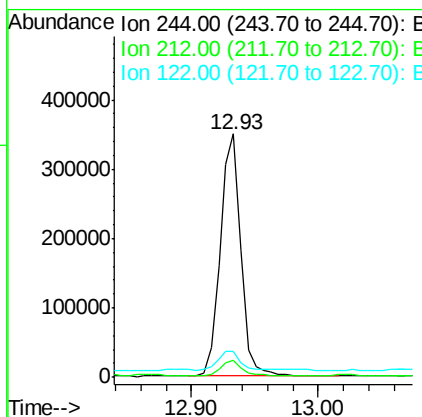
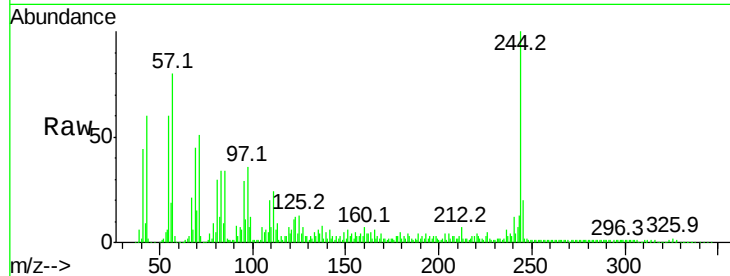
ClientSampleId :

DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	10.7	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 96.352 ng

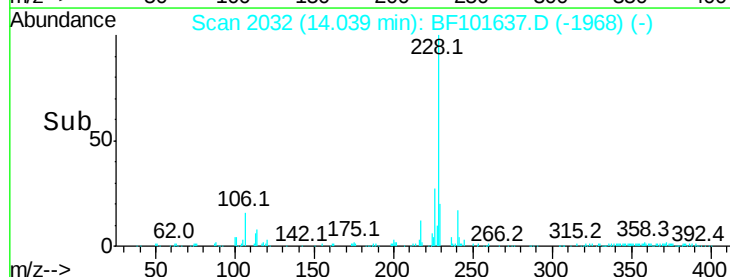
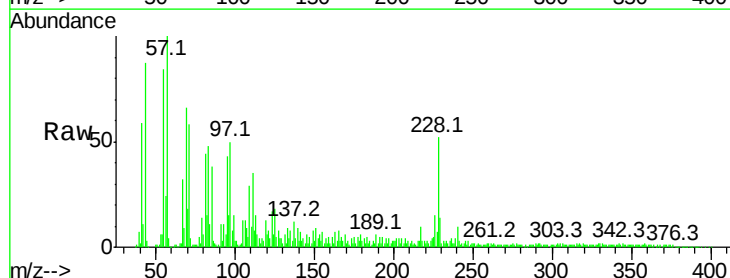
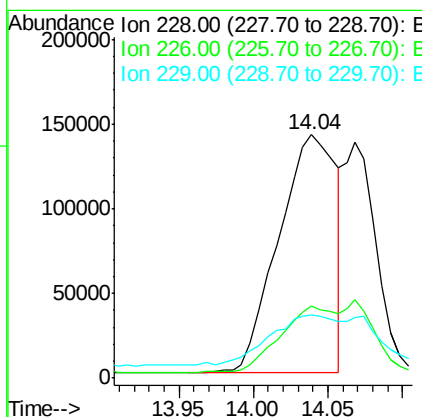
RT: 14.04 min Scan# 2032

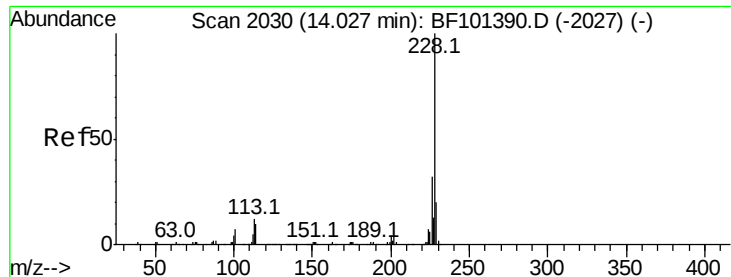
Delta R.T. 0.08 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.6	33.8
229	26.0	15.8	23.6





#82

Chrvsene

Concen: 53.398 ng/ml

RT: 14.07 min Scan# 2037

Delta R.T. 0.06 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

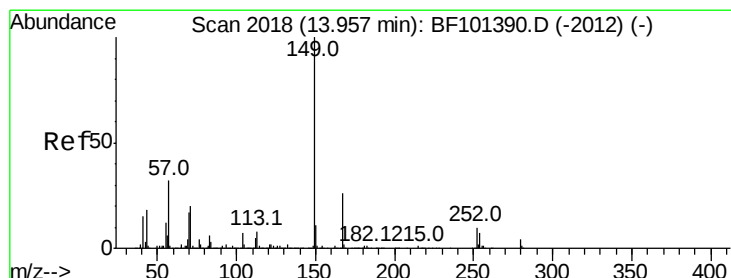
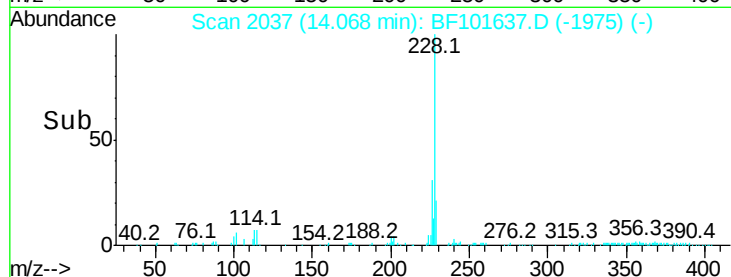
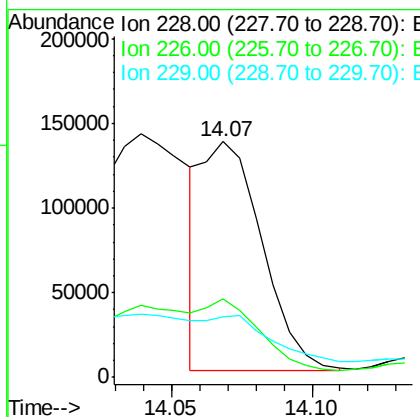
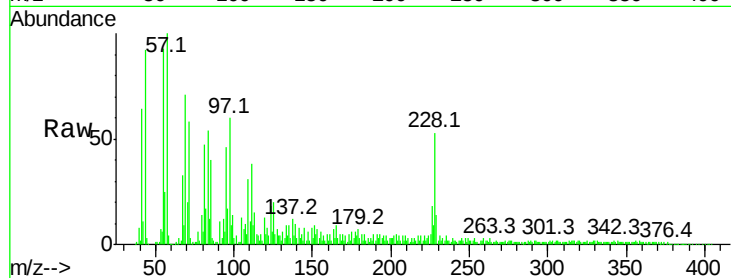
ClientSampleId :

DB-WW-3-0-4

Tot Ion:	228	Resp:	196718
Ion Ratio	Lower	Upper	
228	100		
226	33.2	25.0	37.6
229	25.8	16.2	24.4#

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#83

Bis(2-ethylhexyl)phthalate

Concen: 15.966 ng

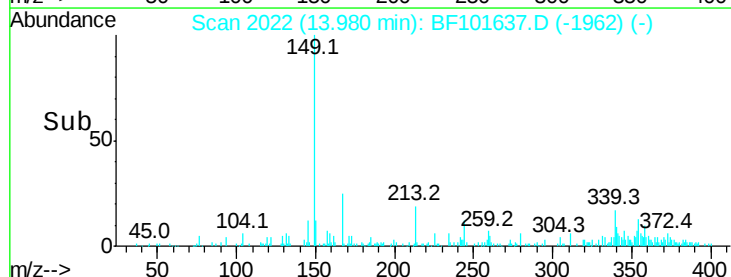
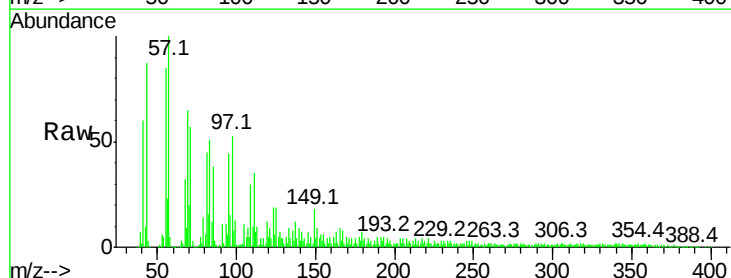
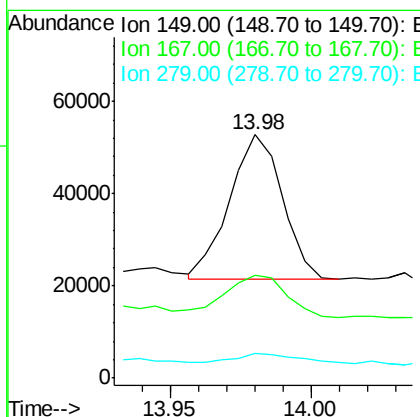
RT: 13.98 min Scan# 2022

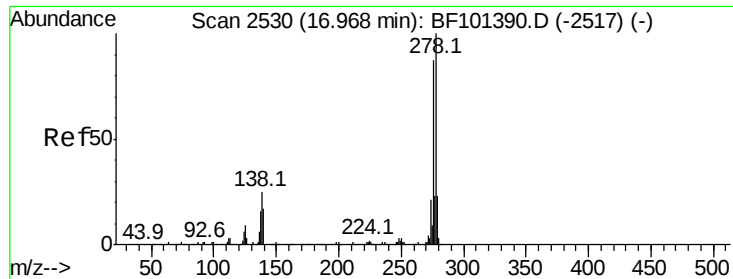
Delta R.T. 0.05 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Tgt Ion:	149	Resp:	40578
Ion Ratio	Lower	Upper	
149	100		
167	42.0	21.3	31.9#
279	10.1	3.0	4.4#





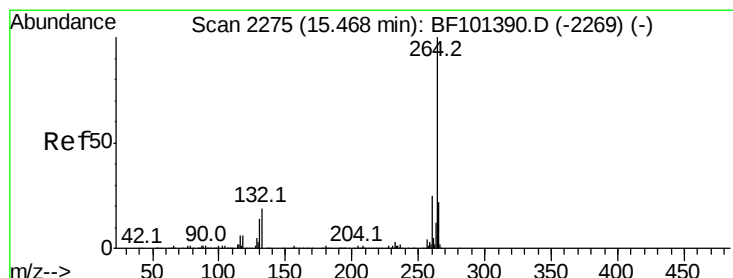
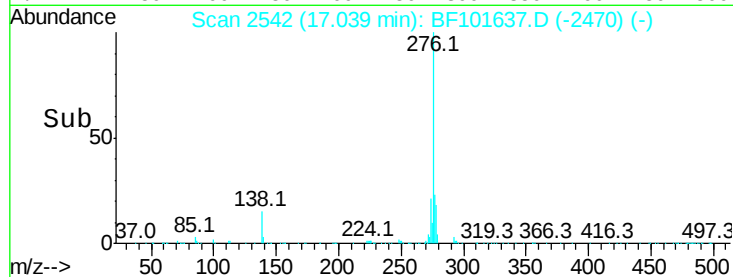
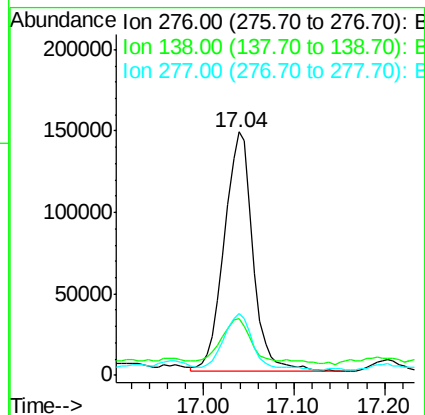
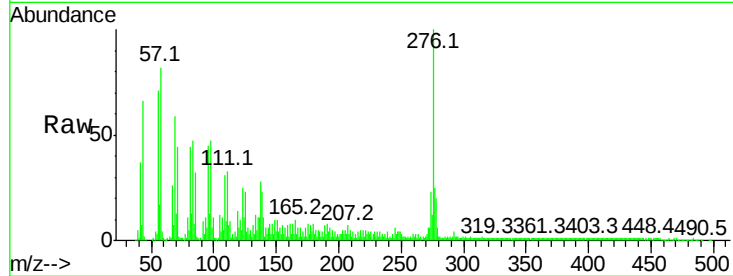
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 99.653 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. 0.12 min
 Lab File: BF101637.D
 Acq: 22 Dec 2017 6:14

Instrument :
 BNA_F
 ClientSampleId :
 DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.1	25.0	37.6#
277	24.0	20.1	30.1

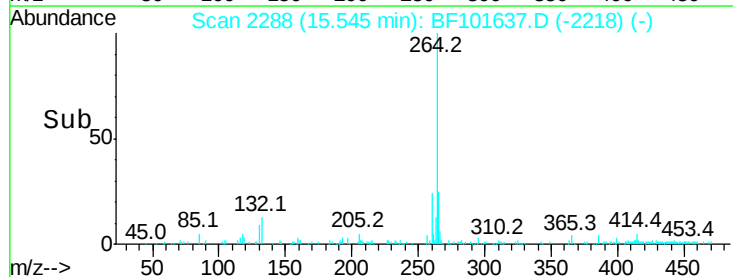
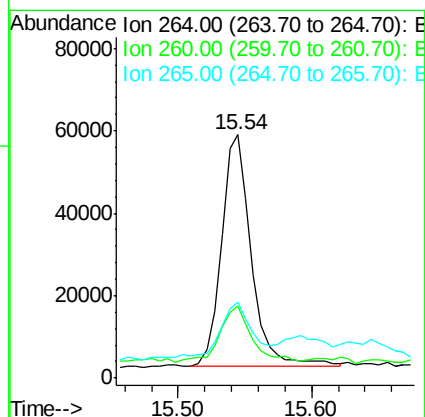
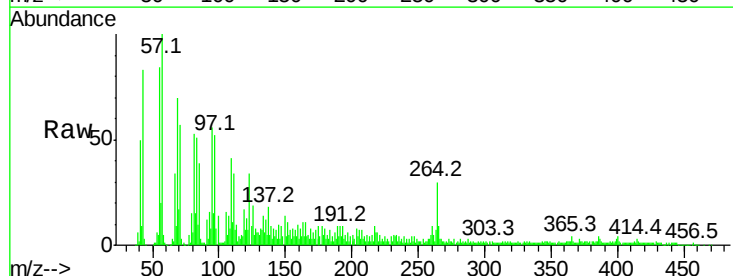
Manual Integrations
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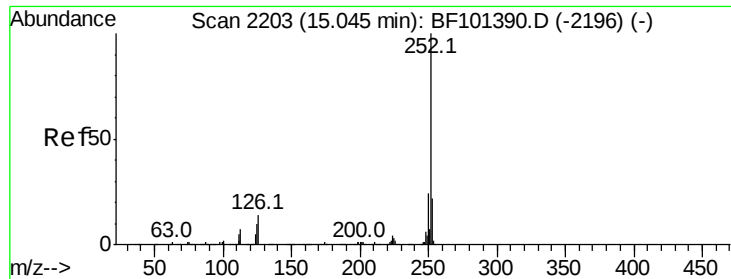
Sohil
 12/22/2017 12:42:28 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.54 min Scan# 2288
 Delta R.T. 0.11 min
 Lab File: BF101637.D
 Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	29.6	19.2	28.8#
265	31.3	17.5	26.3#





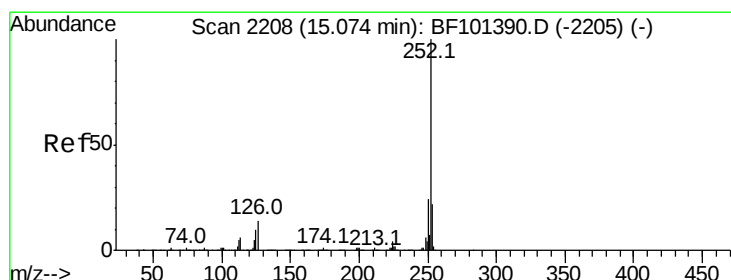
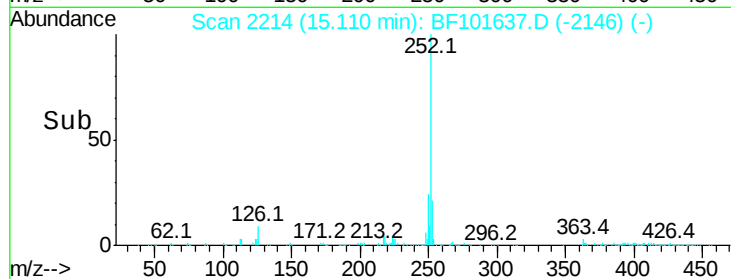
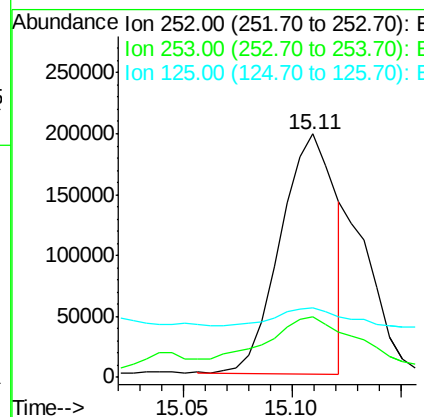
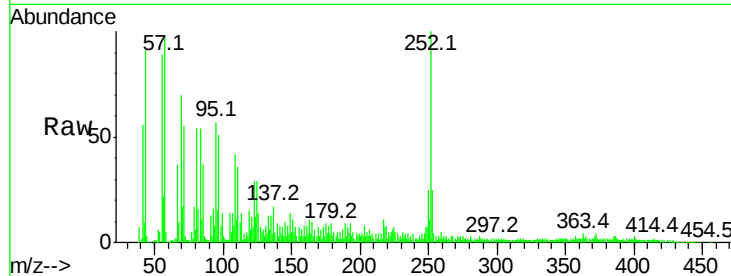
#87
Benzo(b)fluoranthene
Concen: 65.299 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.10 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Instrument :
BNA_F
ClientSampleId :
DB-WW-3-0-4

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.8	17.0	25.6
125	28.5	9.0	13.6#

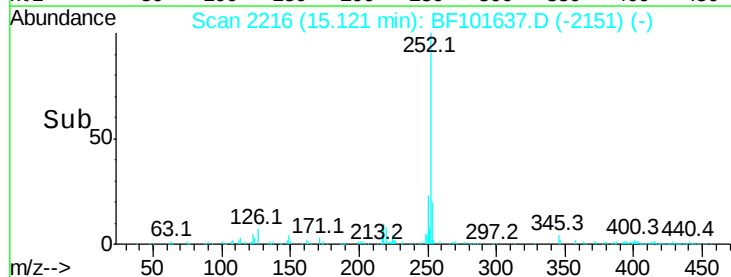
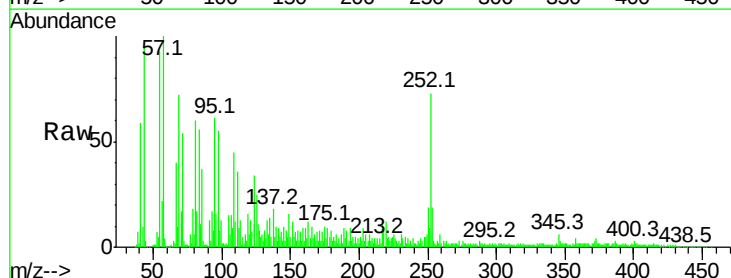
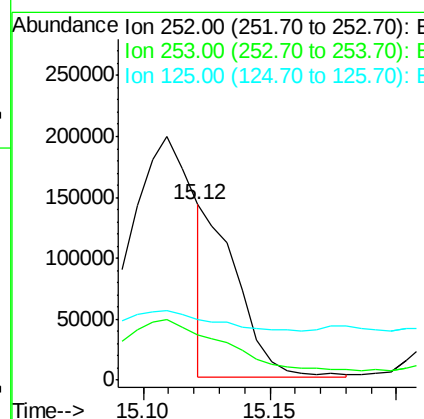
Manual Integrations
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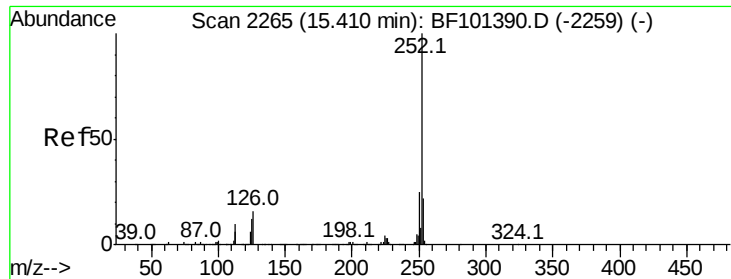
Sohil
12/22/2017 12:42:28 PM



#88
Benzo(k)fluoranthene
Concen: 25.155 ng m
RT: 15.12 min Scan# 2216
Delta R.T. 0.08 min
Lab File: BF101637.D
Acq: 22 Dec 2017 6:14

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	25.5	17.9	26.9
125	34.4	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 54.468 ng

RT: 15.49 min Scan# 2278

Delta R.T. 0.11 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Instrument :

BNA_F

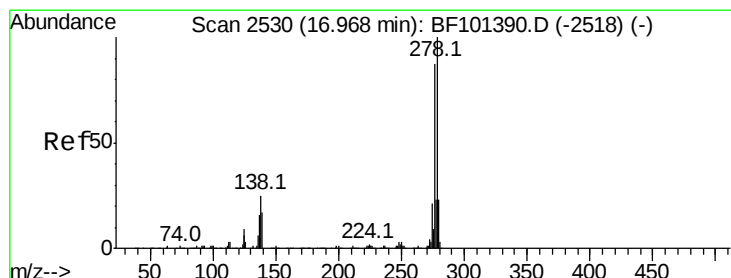
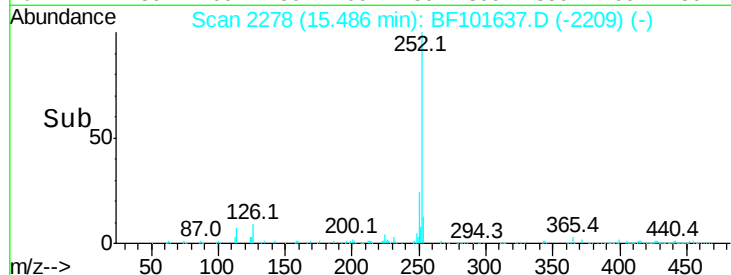
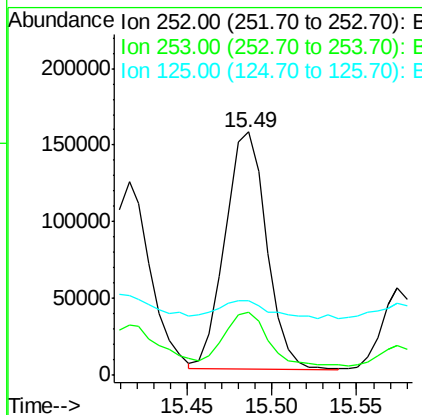
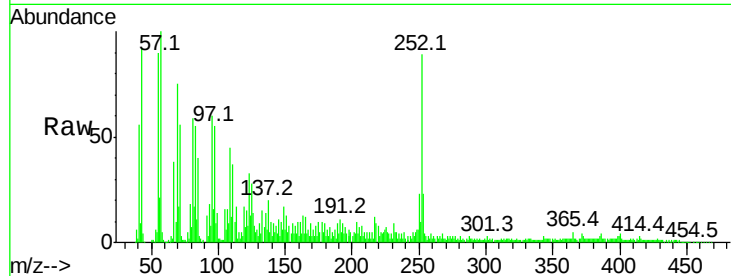
ClientSampleId :

DB-WW-3-0-4

Tot Ion:	252	Resp:	265946
Ion Ratio	Lower	Upper	
252	100		
253	25.9	17.1	25.7#
125	30.9	9.8	14.6#

Manual Integrations
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12/22/2017 12:42:28 PM



#90

Dibenzo(a,h)anthracene

Concen: 17.850 ng

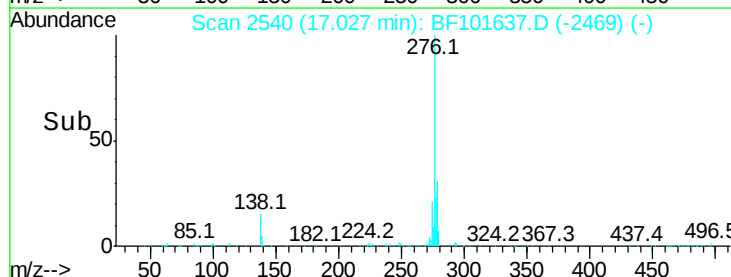
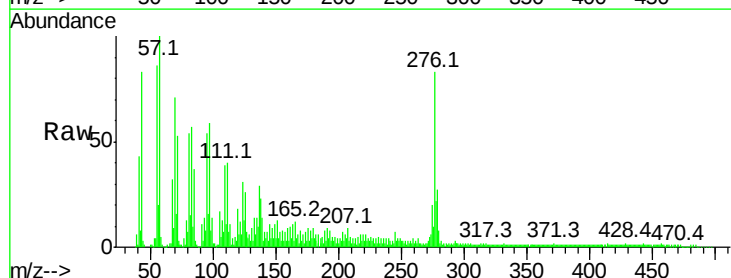
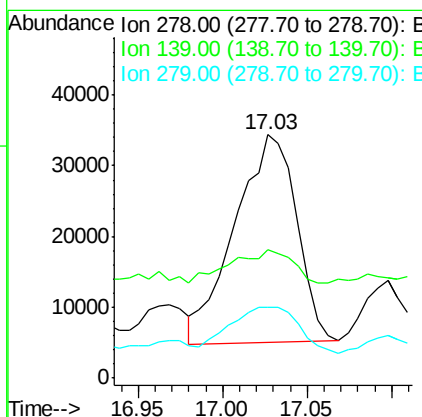
RT: 17.03 min Scan# 2540

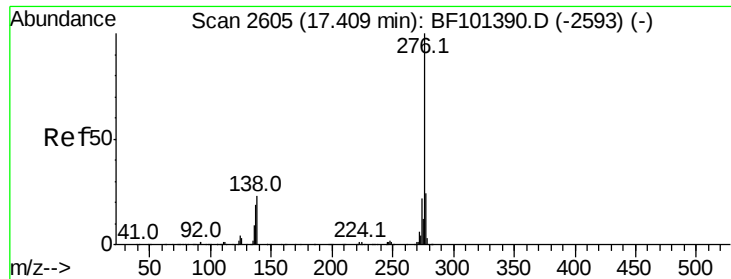
Delta R.T. 0.12 min

Lab File: BF101637.D

Acq: 22 Dec 2017 6:14

Tgt Ion:	278	Resp:	74832
Ion Ratio	Lower	Upper	
278	100		
139	52.8	15.9	23.9#
279	29.0	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 75.825 ng
 RT: 17.50 min Scan# 2620
 Delta R.T. 0.15 min
 Lab File: BF101637.D
 Acq: 22 Dec 2017 6:14

Instrument :
 BNA_F
 ClientSampleId :
 DB-WW-3-0-4

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.9	17.9	26.9#
138	25.8	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/22/2017 12:42:28 PM

