

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
 Data File : BF102009.D
 Acq On : 11 Jan 2018 10:18
 Operator : SJ/JU
 Sample : J1076-11 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Manual Integrations
 APPROVED

Sohil
 1/12/2018 10:36:53 AM

Quant Time: Jan 11 13:27:40 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	219749	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	921312	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	405585	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	657591	20.00	ng	0.00
75) Chrysene-d12	13.87	240	370015	20.00	ng	0.00
86) Perylene-d12	15.29	264	339538	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	17024	1.09	ng	0.00
7) Phenol-d6	6.34	99	19793	1.07	ng	-0.01
23) Nitrobenzene-d5	7.28	82	13293	0.85	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	3811	1.08	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	25237	0.97	ng	-0.01
78) Terphenyl-d14	12.82	244	20223	1.13	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.03	128	1344490	29.205	ng	99
37) 2-Methylnaphthalene	8.72	142	437757	14.444	ng	99
45) 1,1'-Biphenyl	9.18	154	82703	2.307	ng	98
48) Acenaphthylene	9.62	152	277547	6.291	ng	97
51) Acenaphthene	9.79	154	63862	2.385	ng	97
54) Dibenzofuran	9.96	168	146566	3.988	ng	# 97
57) Fluorene	10.30	166	346549	13.641	ng	98
70) Phenanthrene	11.27	178	1532498	39.896	ng	99
71) Anthracene	11.32	178	465613	11.952	ng	99
72) Carbazole	11.47	167	115653	3.020	ng	100
74) Fluoranthene	12.46	202	1148545	30.391	ng	98
77) Pylene	12.68	202	1099961	33.631	ng	100
80) Benzo(a)anthracene	13.86	228	377289	15.981	ng	# 87
82) Chrysene	13.90	228	304326	12.363	ng	96
85) Indeno(1,2,3-cd)pyrene	16.66	276	158517	8.847	ng	98
87) Benzo(b)fluoranthene	14.89	252	313986m	14.182	ng	
88) Benzo(k)fluoranthene	14.91	252	109515m	5.128	ng	
89) Benzo(a)pyrene	15.23	252	266943	13.399	ng	97
90) Dibenzo(a,h)anthracene	16.68	278	44385	2.792	ng	# 92
91) Benzo(a,h,i)perylene	17.07	276	153496	9.585	ng	# 90

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

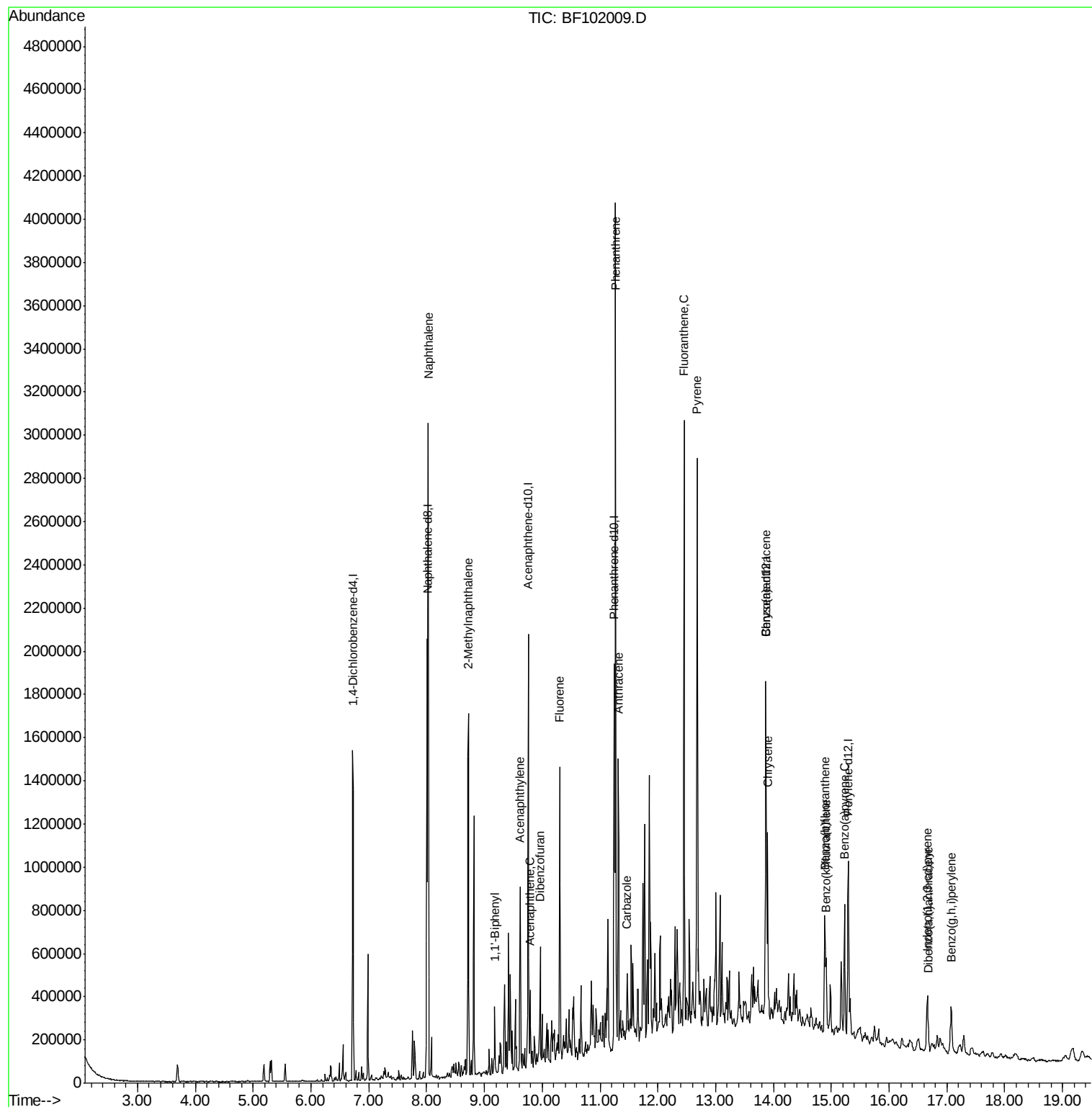
Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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#1

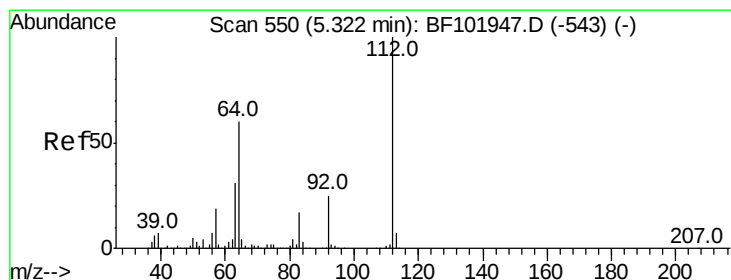
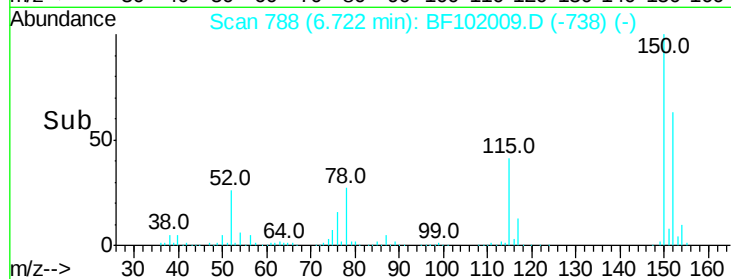
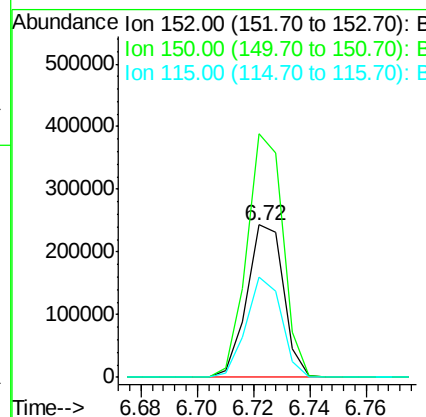
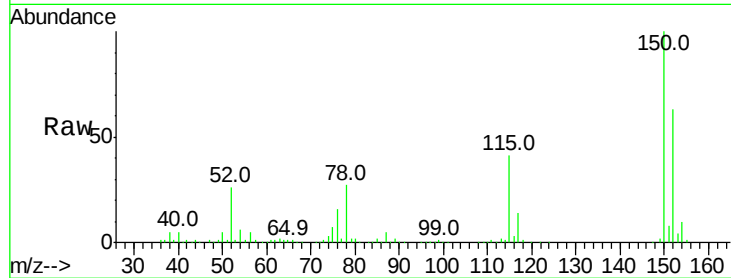
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. -0.01 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	124.6	186.8
115	66.2	50.1	75.1

Manual Integrations
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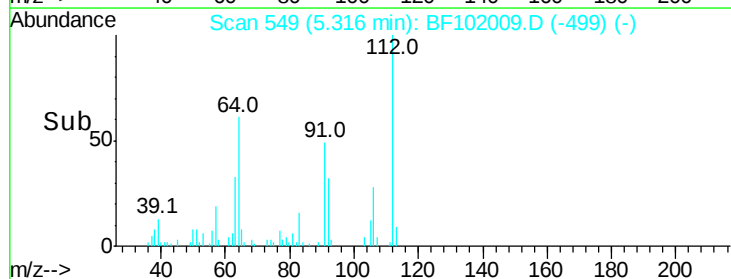
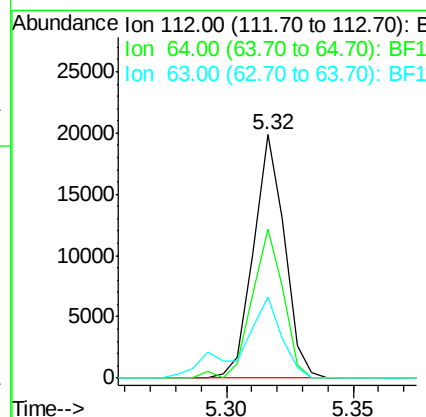
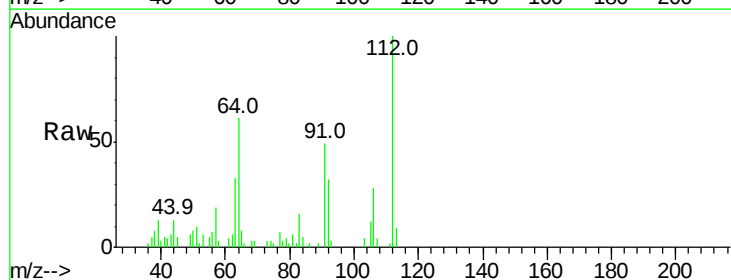
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#5

2-Fluorophenol
 Concen: 1.094 ng
 RT: 5.32 min Scan# 549
 Delta R.T. -0.01 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.4	47.9	71.9
63	33.2	23.7	35.5





#7

Phenol-d6

Concen: 1.066 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Instrument :

BNA_F

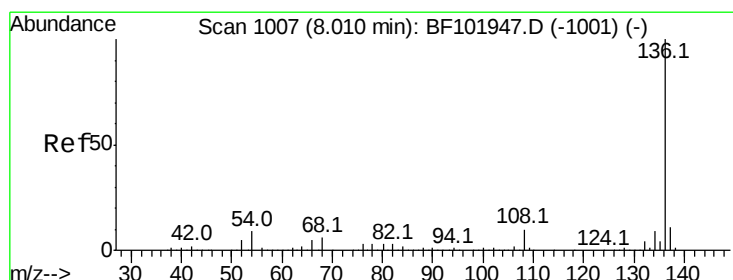
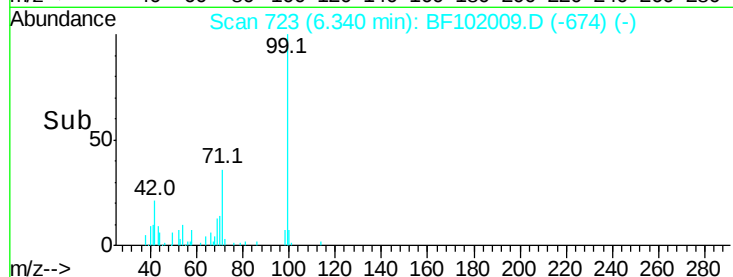
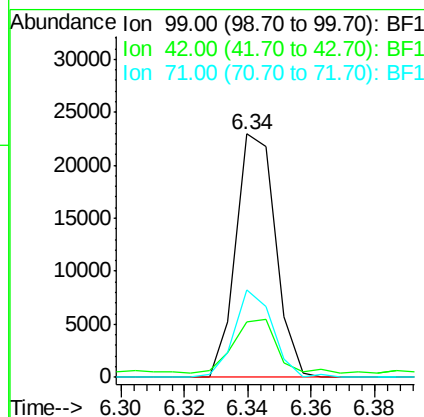
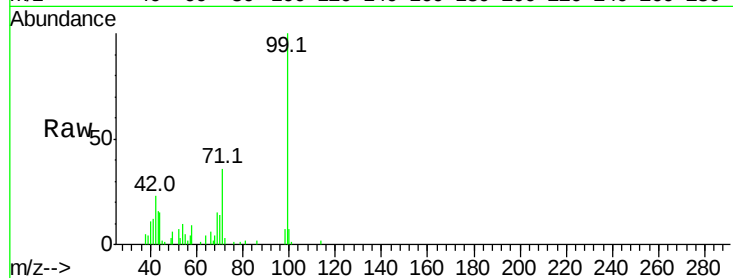
ClientSampleId :

WC-096613-01

Tot Ion:	99	Resp:	19793
Ion Ratio	Lower	Upper	
99	100		
42	22.8	14.5	21.7#
71	36.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

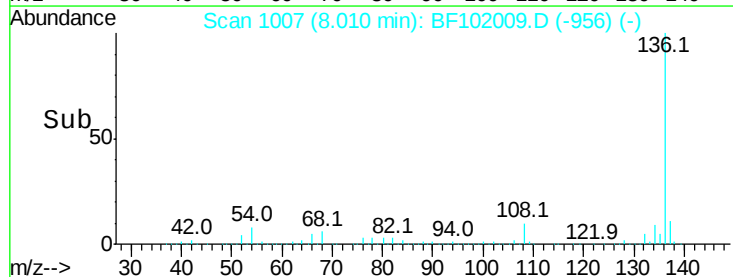
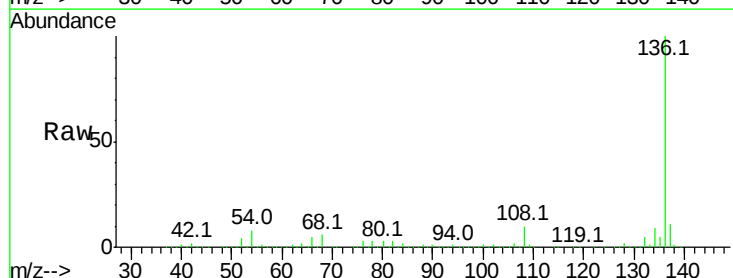
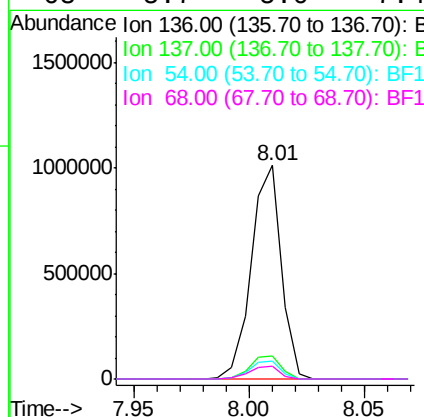
RT: 8.01 min Scan# 1007

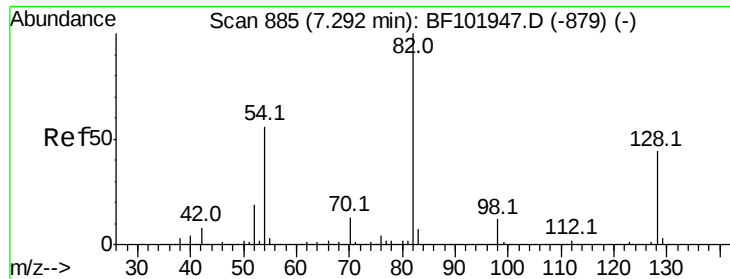
Delta R.T. 0.00 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Tgt Ion:	136	Resp:	921312
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	8.5	6.6	9.8
68	5.7	5.0	7.4





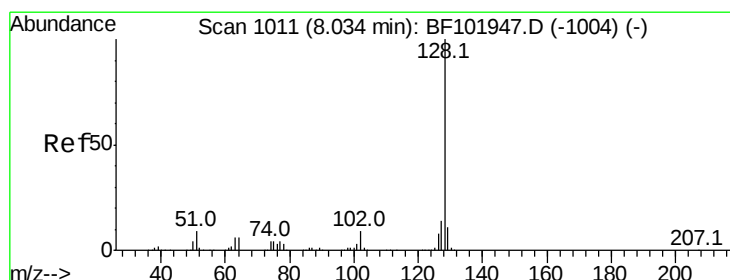
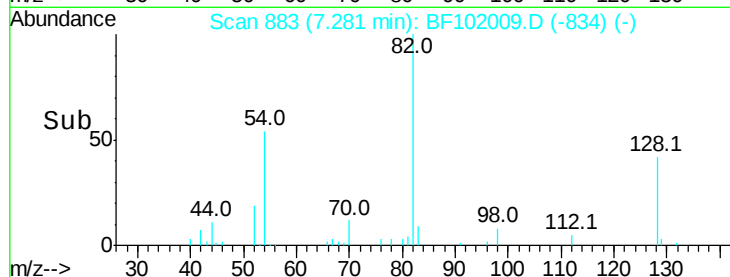
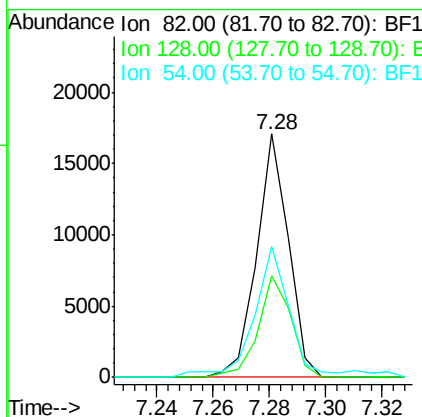
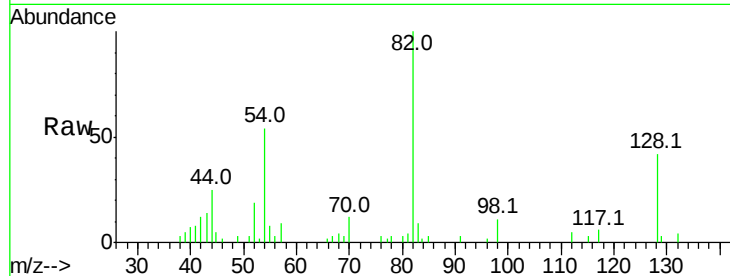
#23
Nitrobenzene-d5
Concen: 0.848 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

Tot Ion	82	Resp	13293
Ion Ratio	100	Lower	Upper
128	41.9	36.1	54.1
54	53.7	41.4	62.2

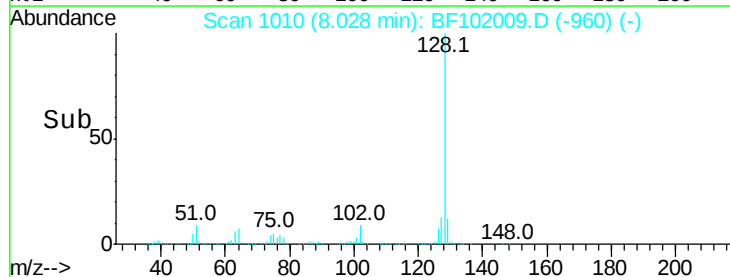
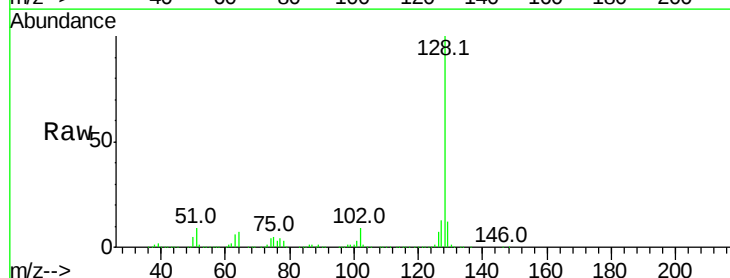
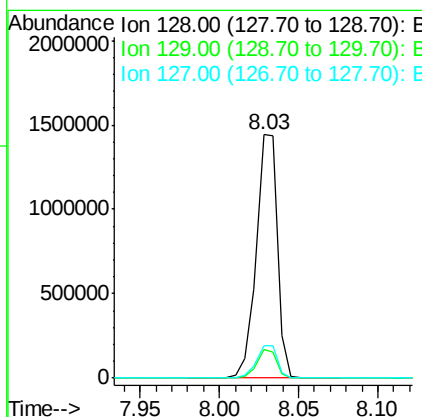
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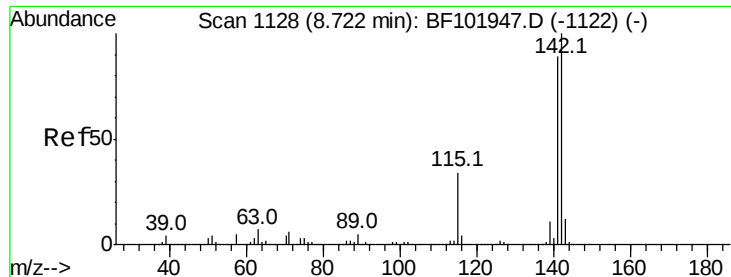
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#31
Naphthalene
Concen: 29.205 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Tgt Ion	128	Resp	1344490
Ion Ratio	100	Lower	Upper
129	11.5	8.8	13.2
127	13.3	10.9	16.3





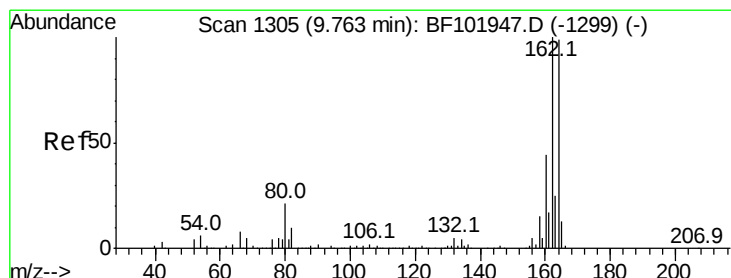
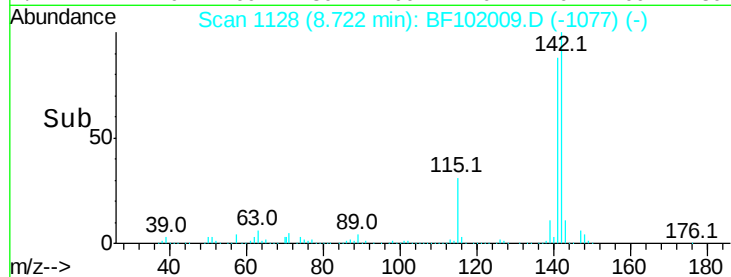
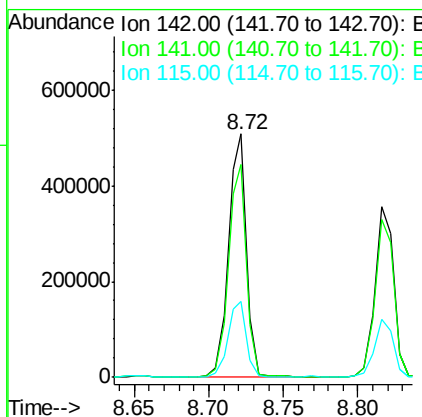
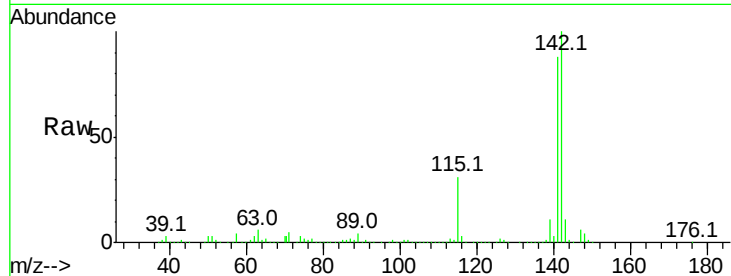
#37
 2-Methylnaphthalene
 Concen: 14.444 ng
 RT: 8.72 min Scan# 1128
 Delta R.T. 0.00 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Tot Ion	Ratio	Resp	Lower	Upper
142	100	437757		
141	87.6		70.8	106.2
115	31.3		26.1	39.1

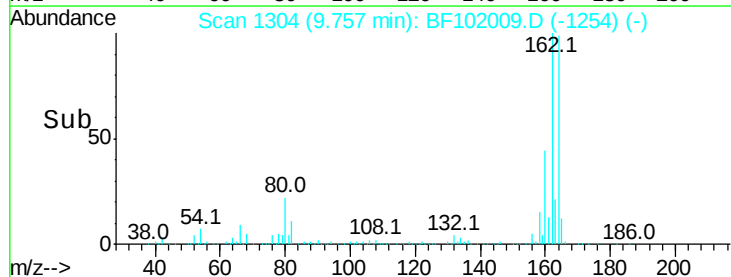
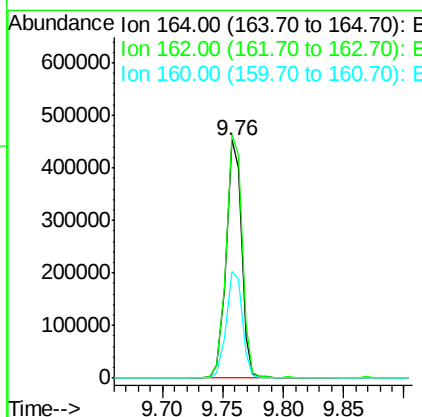
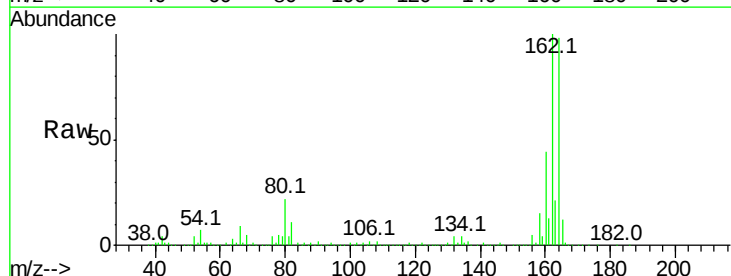
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	405585		
162	102.1		86.1	129.1
160	44.7		38.3	57.5





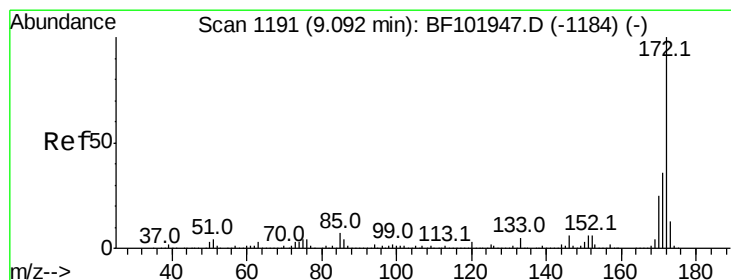
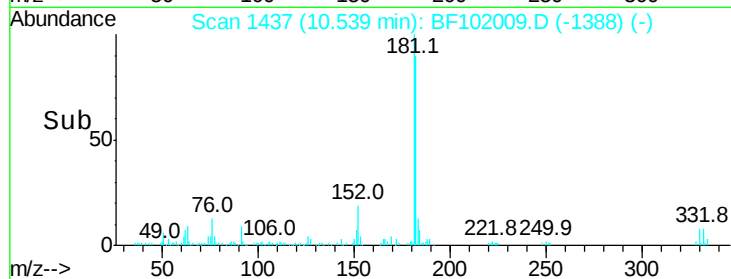
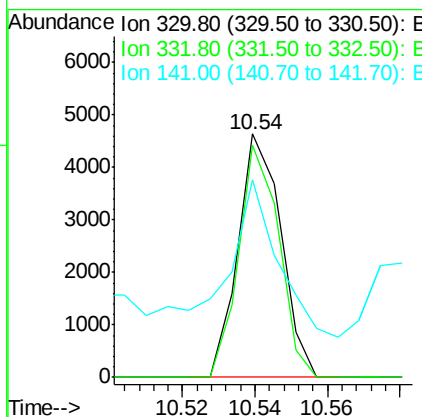
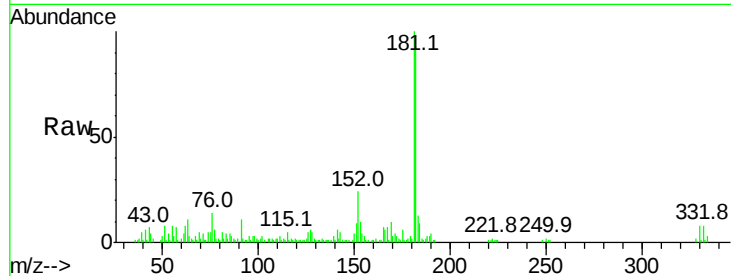
#41
 2,4,6-Tribromophenol
 Concen: 1.077 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	89.2	77.0	115.6
141	69.9	29.9	44.9

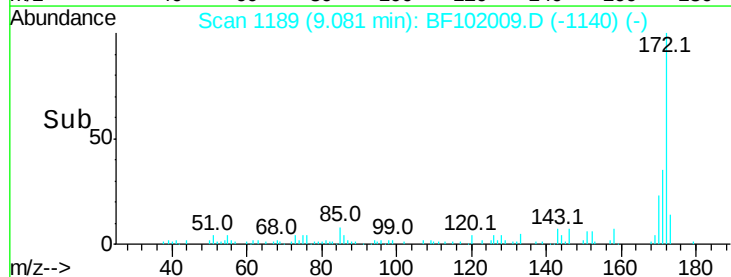
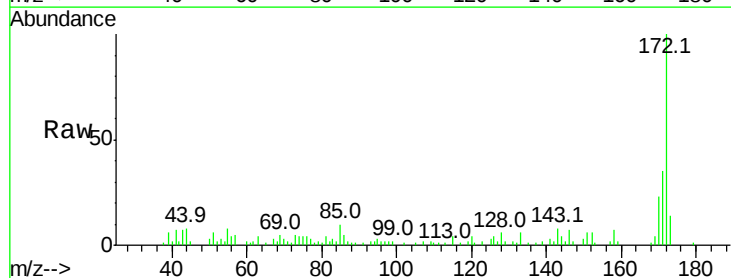
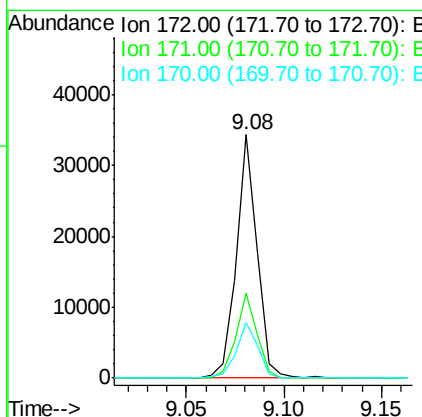
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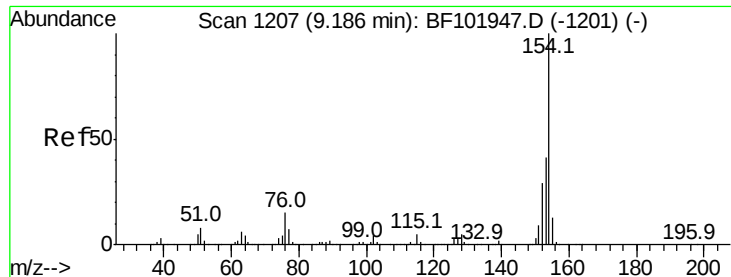
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#44
 2-Fluorobiphenyl
 Concen: 0.972 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.7	44.5
170	22.7	19.6	29.4





#45

1,1'-Biphenyl

Concen: 2.307 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Instrument :

BNA_F

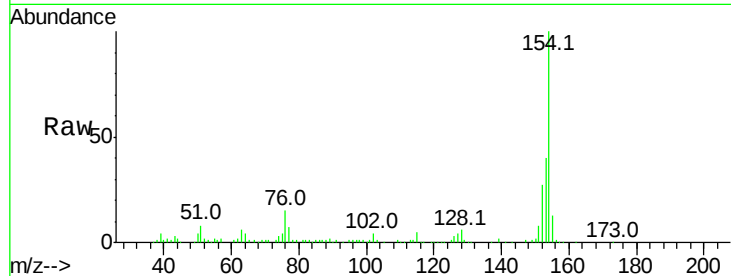
ClientSampleId :

WC-096613-01

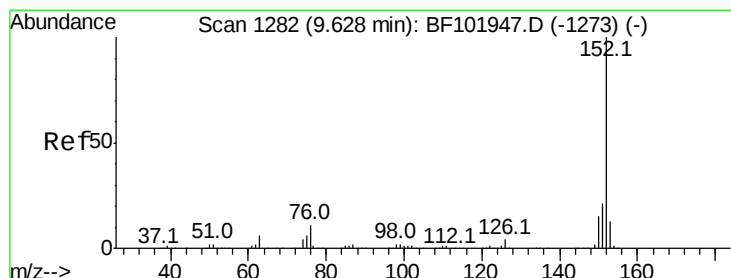
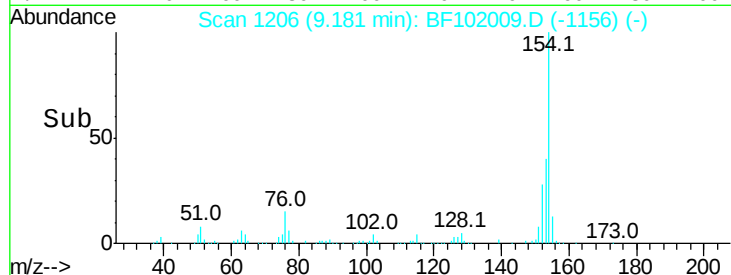
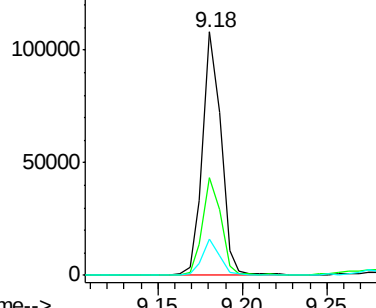
Tot Ion:	154	Resp:	82703
Ion Ratio	Lower	Upper	
154	100		
153	40.0	21.3	61.3
76	15.0	0.0	34.0

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 6.291 ng

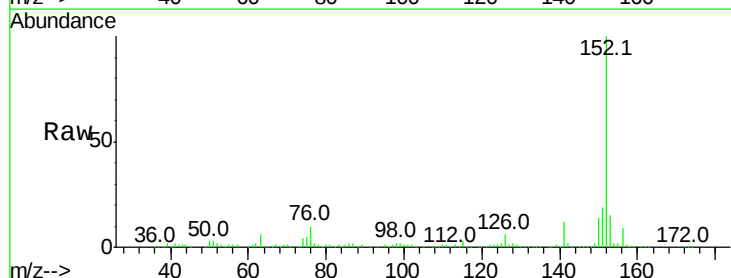
RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

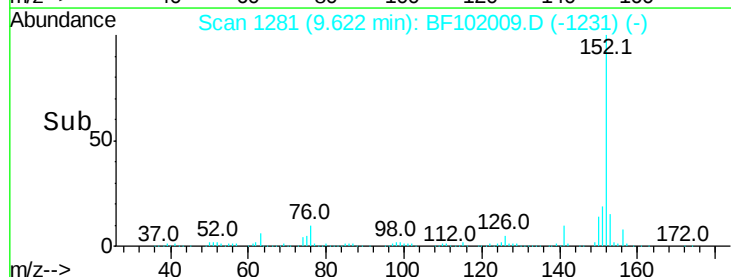
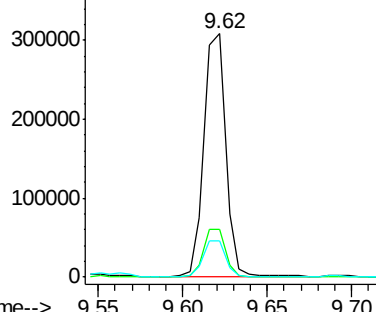
Lab File: BF102009.D

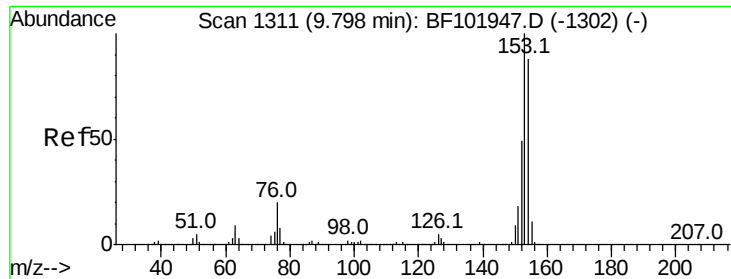
Acq: 11 Jan 2018 10:18

Tgt Ion:	152	Resp:	277547
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.3	24.5
153	14.7	10.7	16.1



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





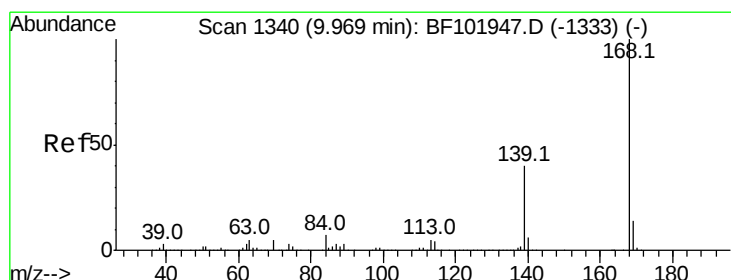
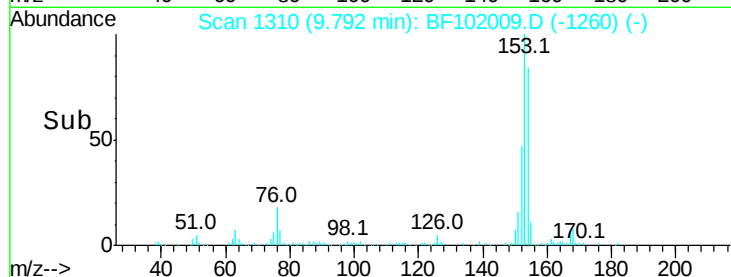
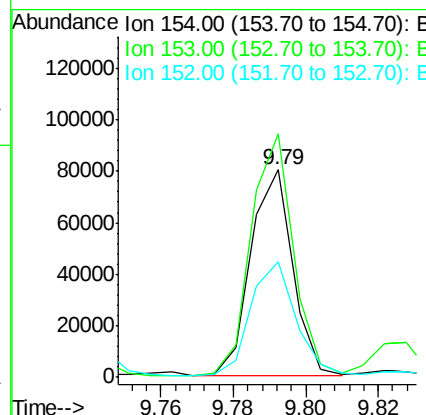
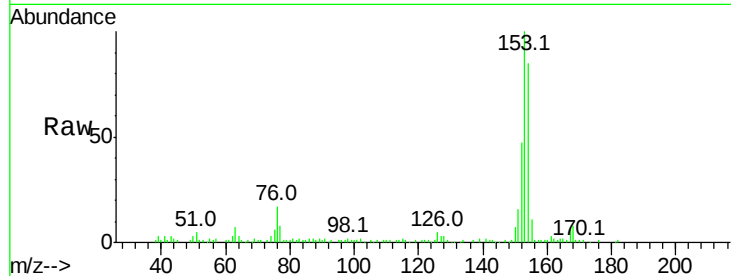
#51
Acenaphthene
Concen: 2.385 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.5	91.2	136.8
152	55.7	43.8	65.8

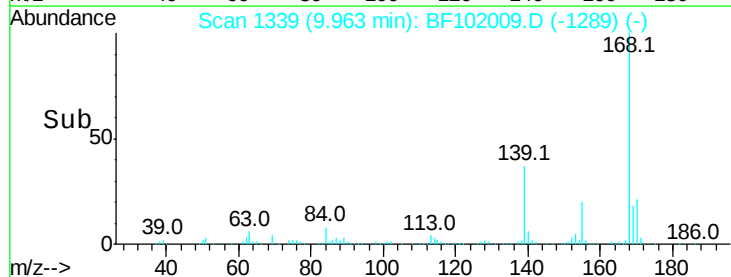
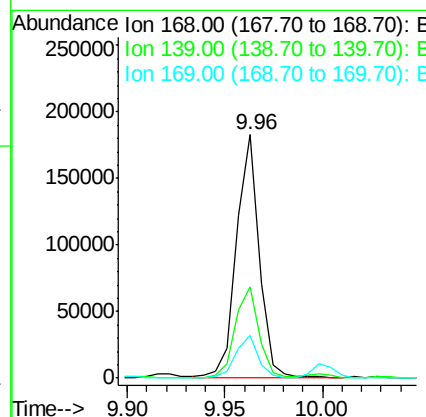
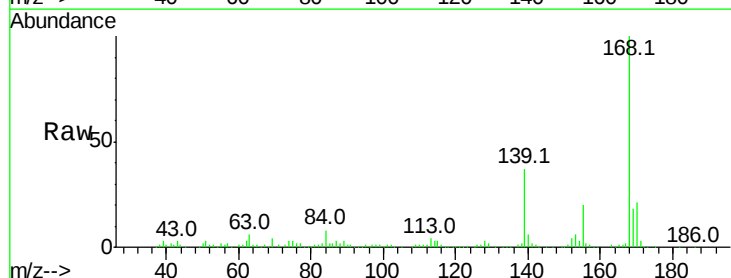
Manual Integrations
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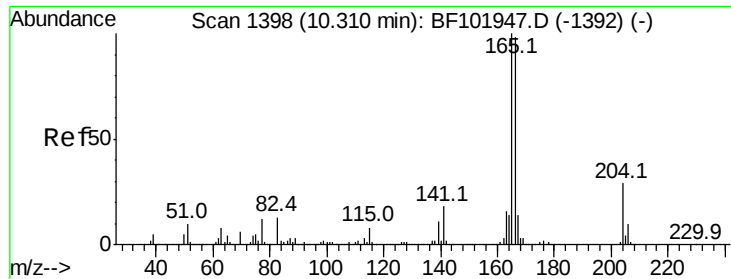
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#54
Dibenzofuran
Concen: 3.988 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.3	30.1	45.1
169	17.5	10.9	16.3#





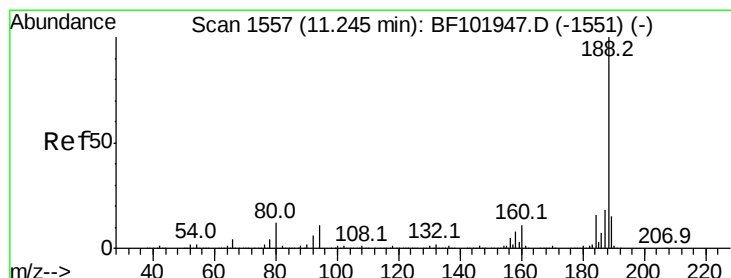
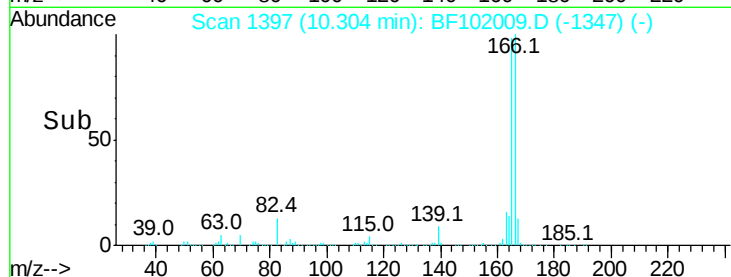
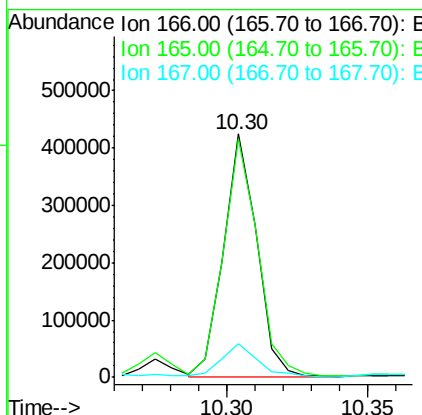
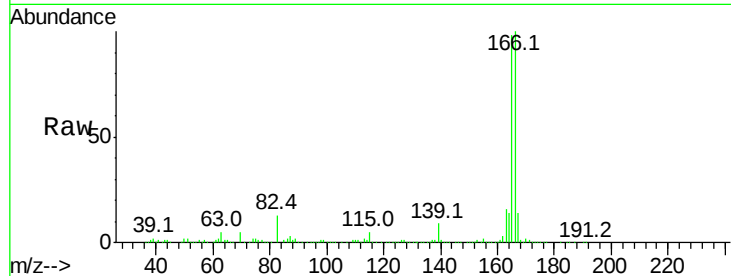
#57
Fluorene
 Concen: 13.641 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.00 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Tot Ion	Ratio	Resp	Lower	Upper
166	100	346549		
165	97.8	79.8	119.8	
167	13.8	10.6	16.0	

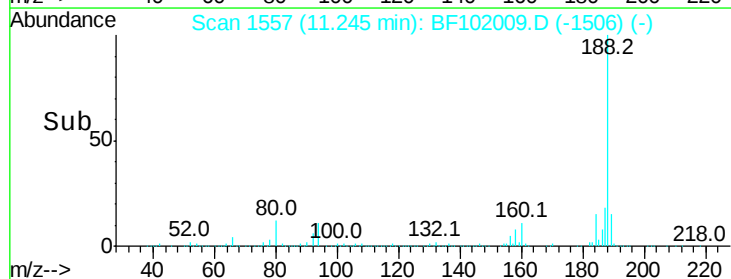
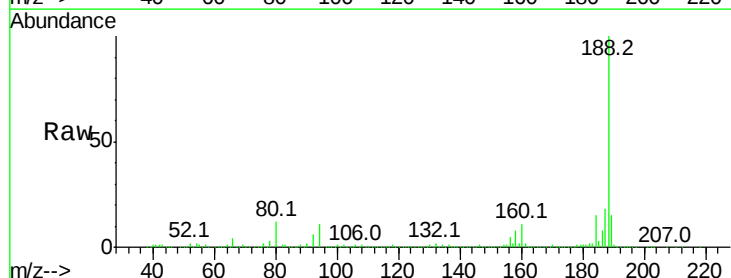
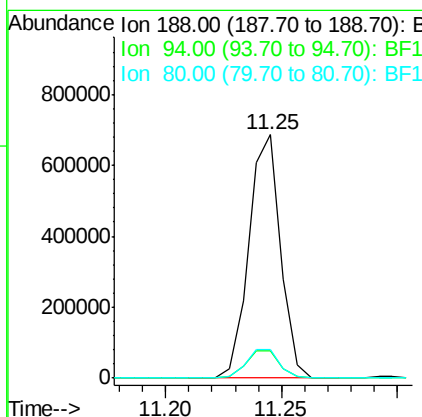
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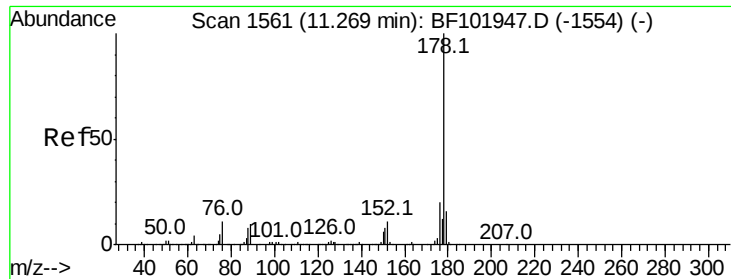
Sohil
 1/12/2018 10:36:53 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF102009.D
 Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	657591		
94	11.1	8.5	12.7	
80	11.9	9.2	13.8	





#70

Phenanthrene

Concen: 39.896 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Instrument :

BNA_F

ClientSampleId :

WC-096613-01

Tot Ion:178 Resp: 1532498

Ion Ratio Lower Upper

178 100

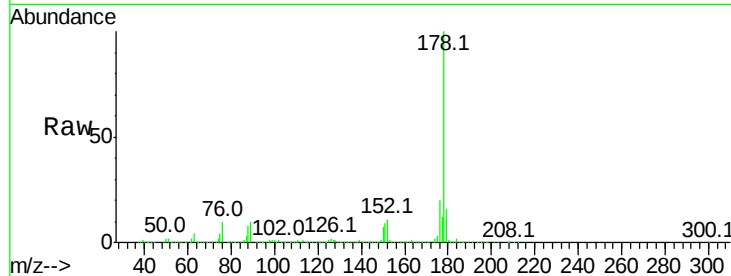
176 20.4 15.8 23.8

179 15.9 13.0 19.6

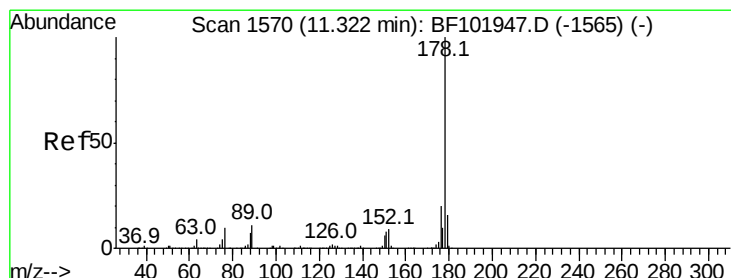
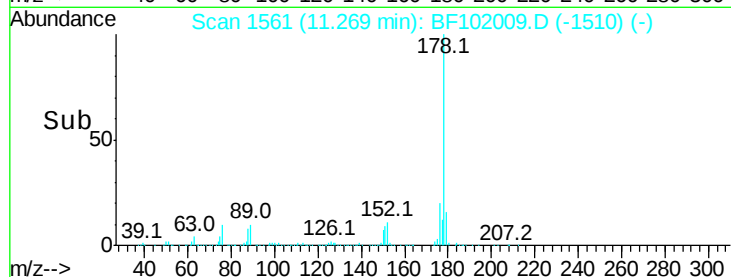
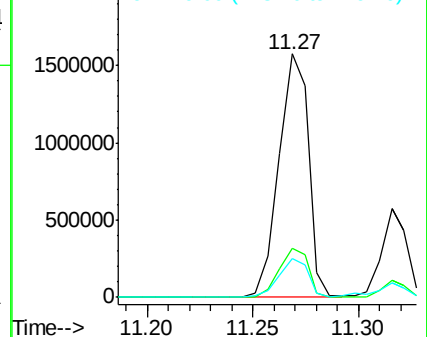
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 11.952 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

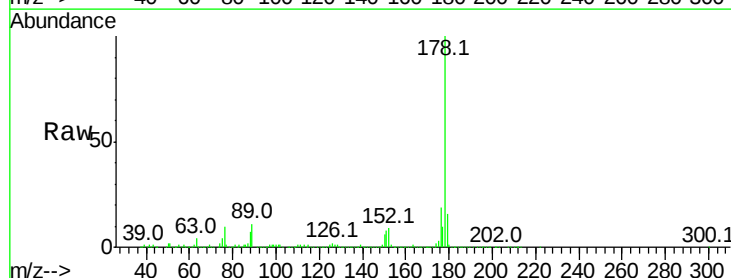
Tgt Ion:178 Resp: 465613

Ion Ratio Lower Upper

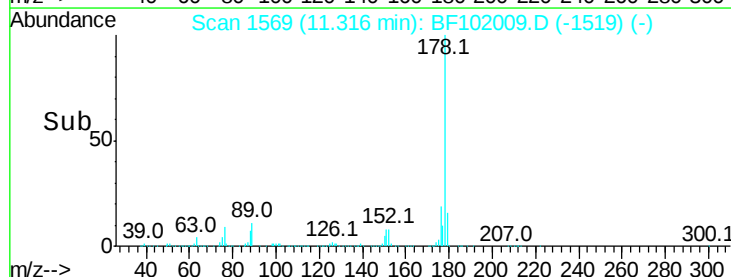
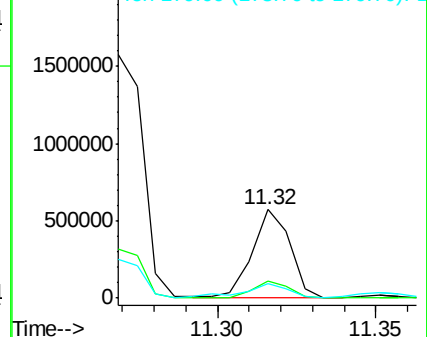
178 100

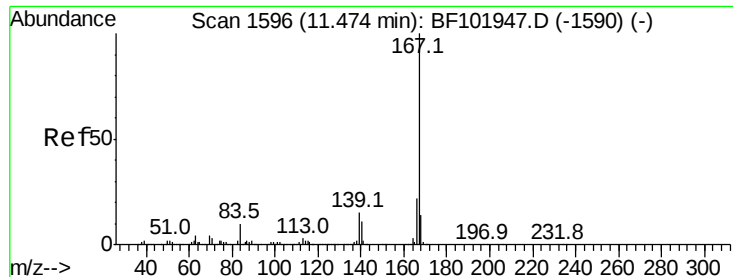
176 18.8 15.4 23.2

179 16.1 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





#72

Carbazole

Concen: 3.020 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Instrument :

BNA_F

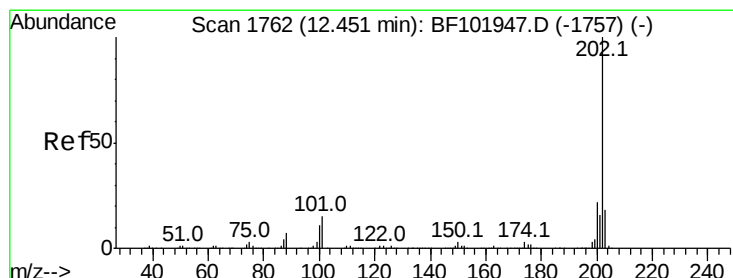
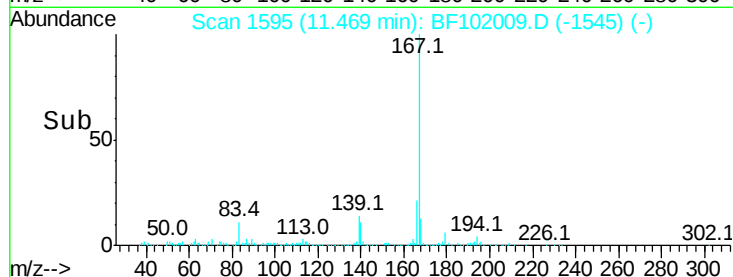
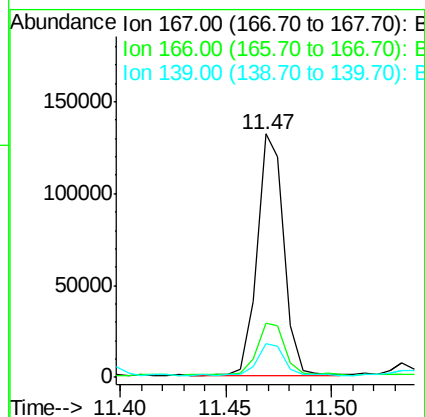
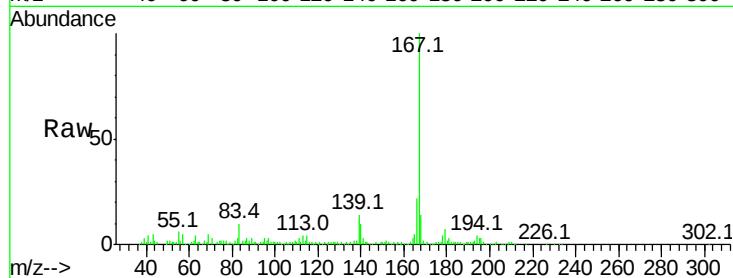
ClientSampleId :

WC-096613-01

Tot Ion:	167	Resp:	115653
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.6	26.4
139	14.0	10.9	16.3

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#74

Fluoranthene

Concen: 30.391 ng

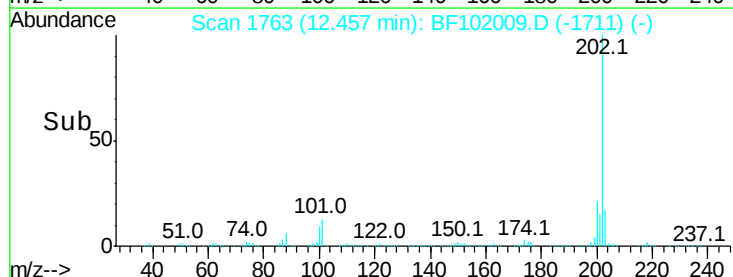
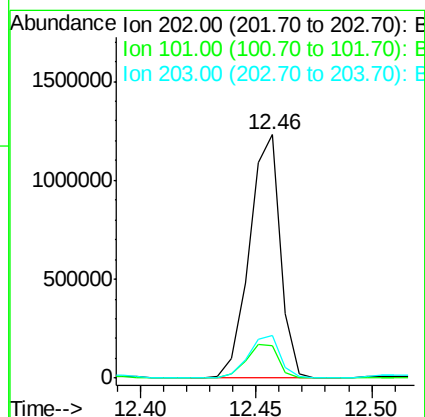
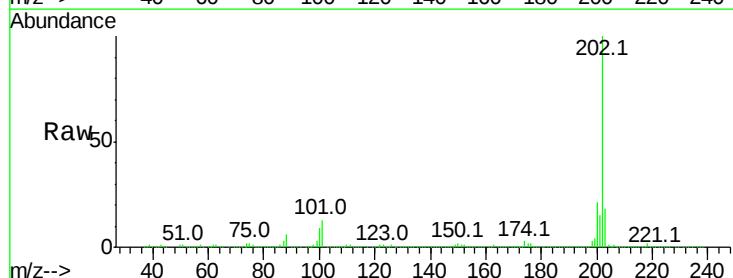
RT: 12.46 min Scan# 1763

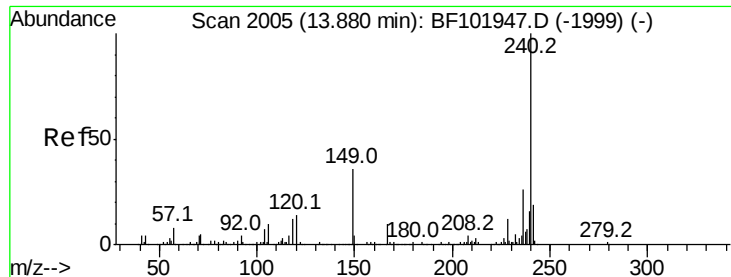
Delta R.T. 0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Tgt Ion:	202	Resp:	1148545
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Instrument :

BNA_F

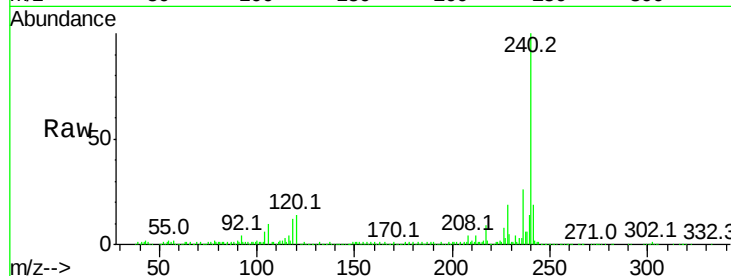
ClientSampleId :

WC-096613-01

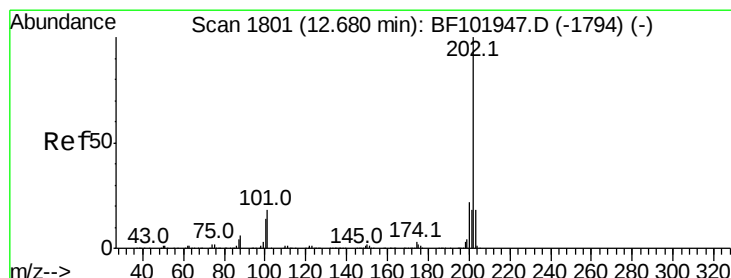
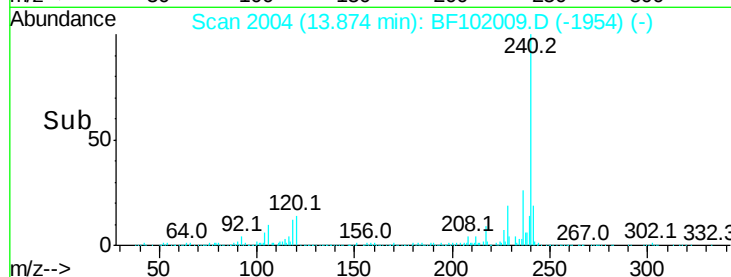
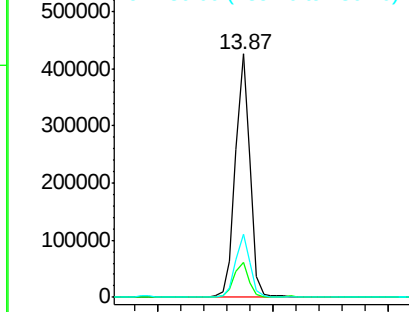
Tot Ion	Ratio	Lower	Upper
240	100		
120	14.5	9.5	14.3#
236	25.9	20.7	31.1

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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: 33.631 ng

RT: 12.68 min Scan# 1801

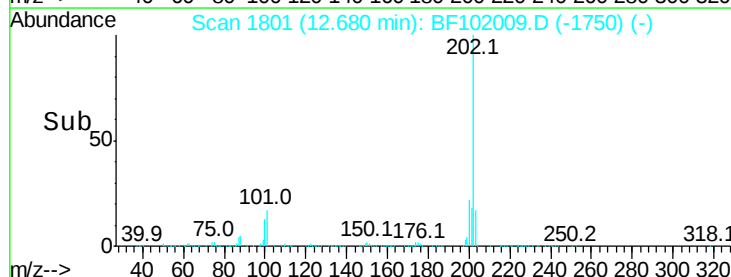
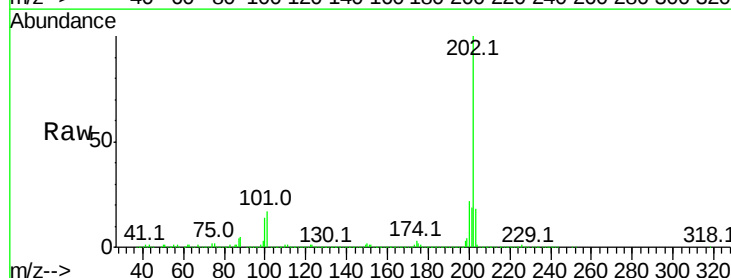
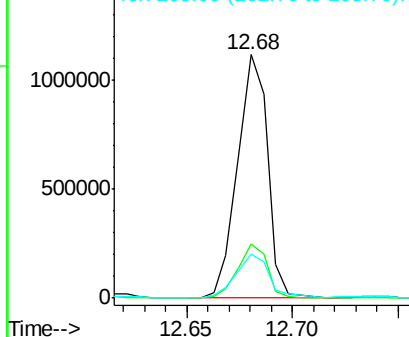
Delta R.T. 0.00 min

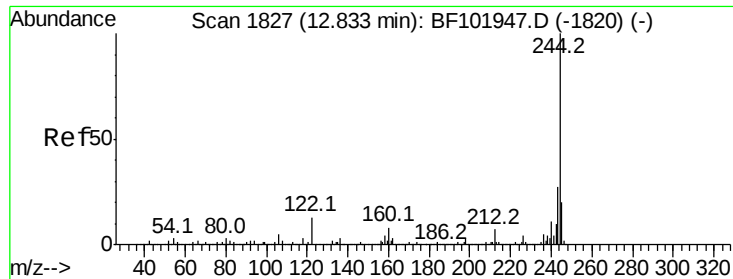
Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2
203	17.9	14.3	21.5

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: 1.135 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Instrument :

BNA_F

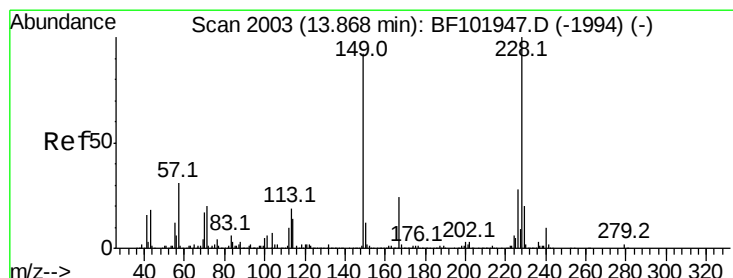
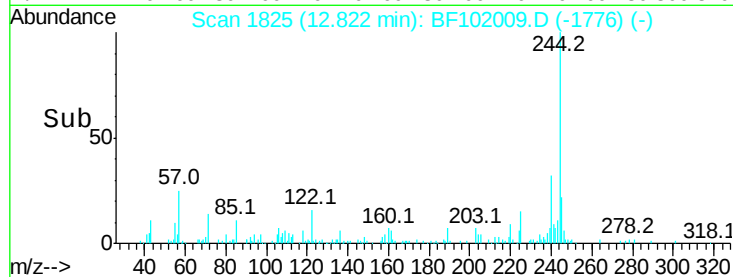
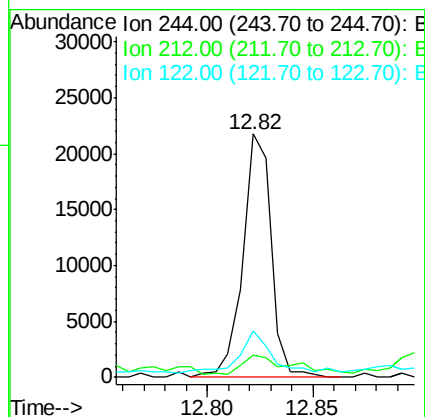
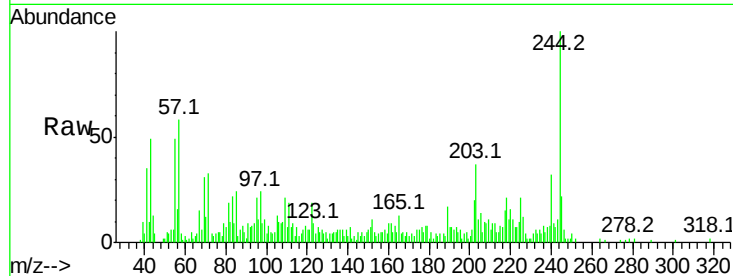
ClientSampleId :

WC-096613-01

Tot Ion:	244	Resp:	20223
Ion Ratio		Lower	Upper
244	100		
212	9.4	5.4	8.0#
122	19.3	11.0	16.4#

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#80

Benzo(a)anthracene

Concen: 15.981 ng

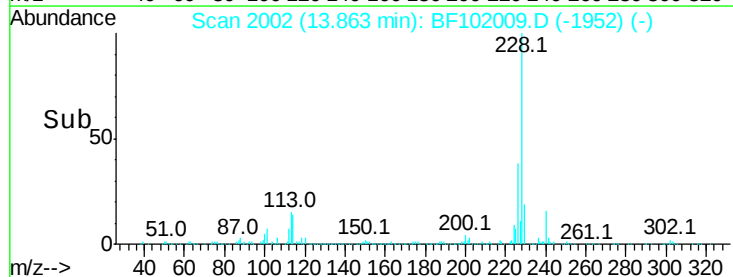
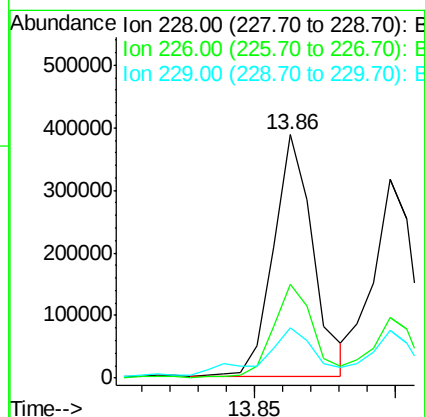
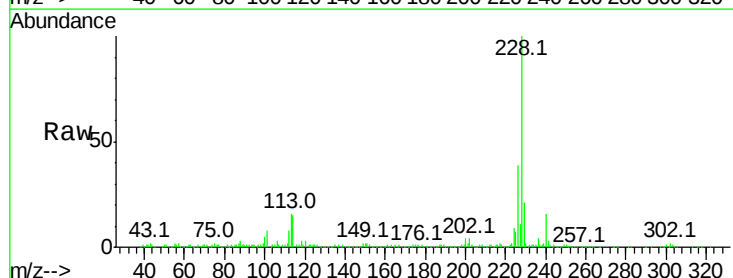
RT: 13.86 min Scan# 2002

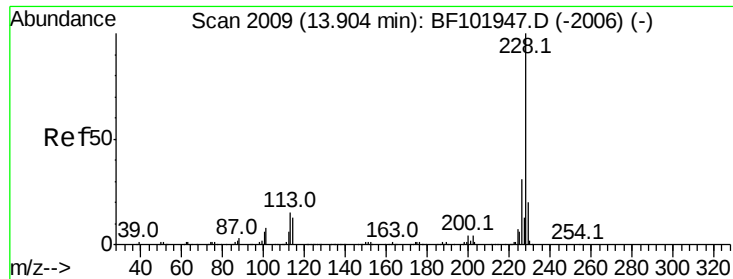
Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Tgt Ion:	228	Resp:	377289
Ion Ratio		Lower	Upper
228	100		
226	38.7	22.6	33.8#
229	20.7	15.8	23.6





#82

Chrysene

Concen: 12.363 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Instrument :

BNA_F

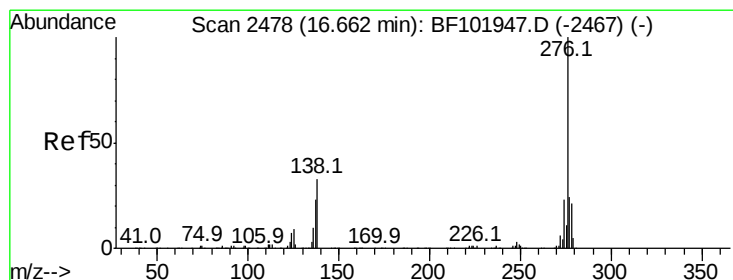
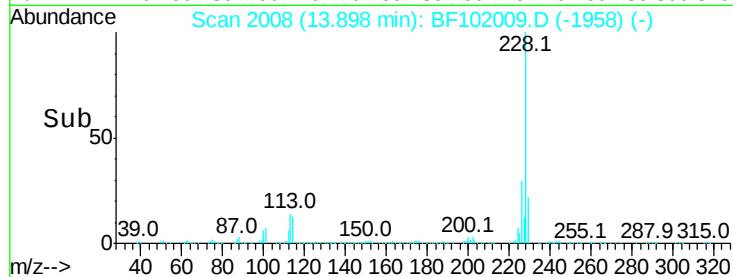
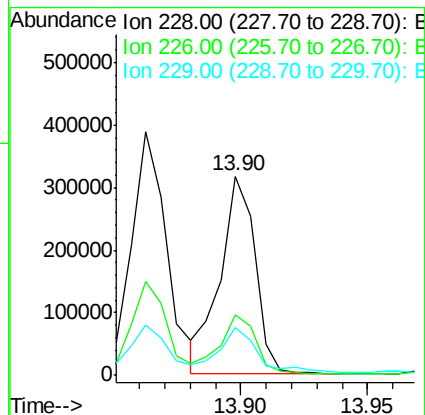
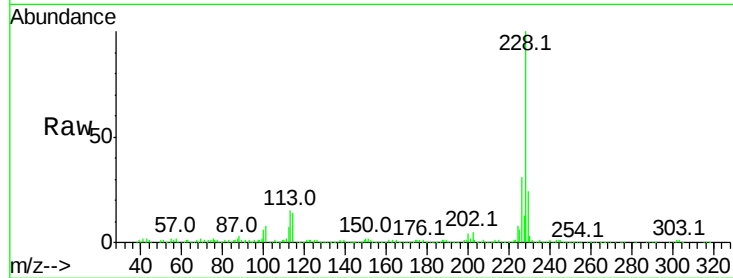
ClientSampleId :

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Tot Ion:	228	Resp:	304326
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.0	37.6
229	23.9	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.847 ng

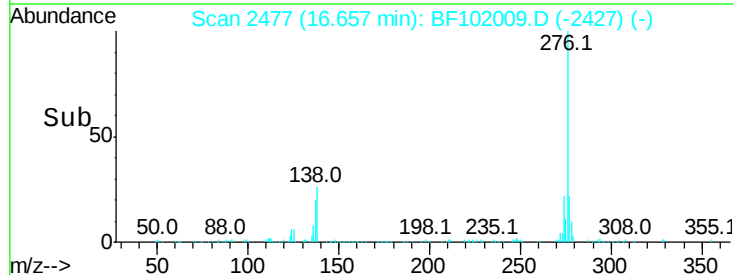
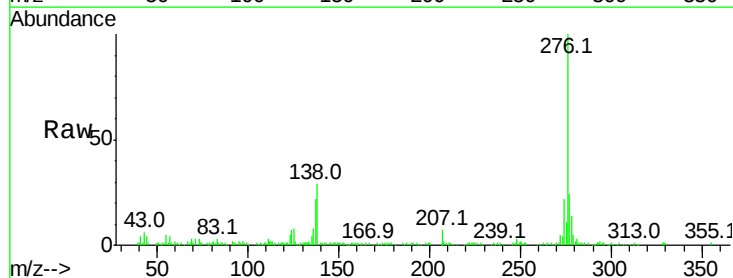
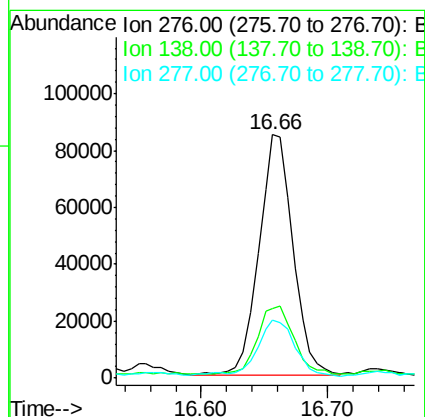
RT: 16.66 min Scan# 2477

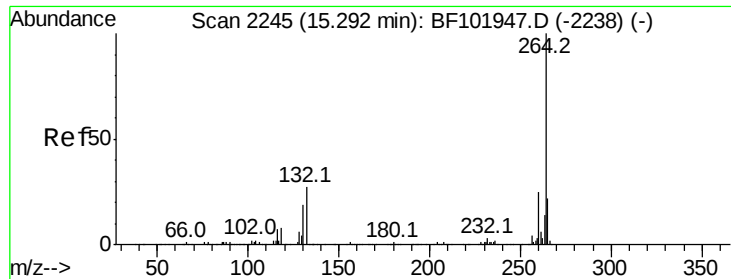
Delta R.T. -0.01 min

Lab File: BF102009.D

Acq: 11 Jan 2018 10:18

Tgt Ion:	276	Resp:	158517
Ion Ratio	Lower	Upper	
276	100		
138	30.2	25.0	37.6
277	25.9	20.1	30.1





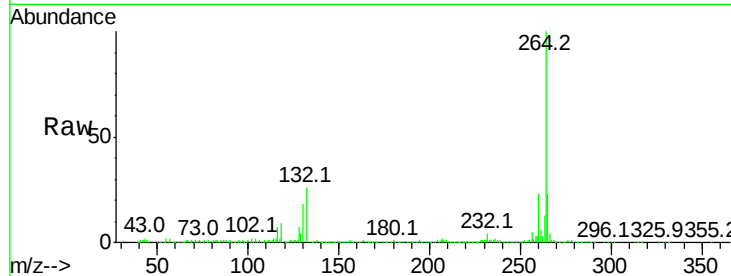
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.00 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

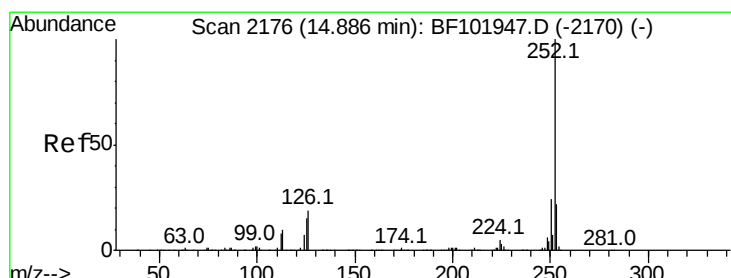
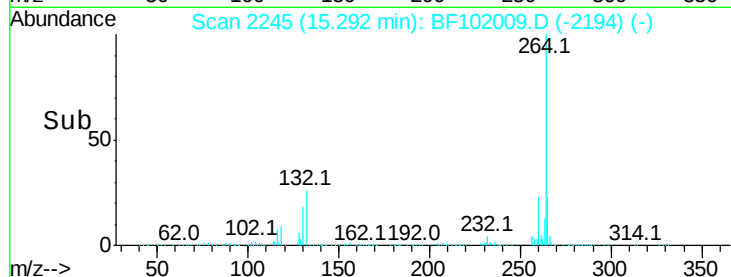
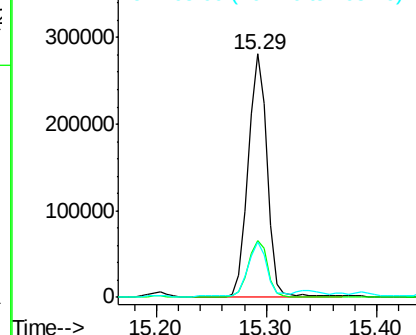
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	23.0	17.5	26.3

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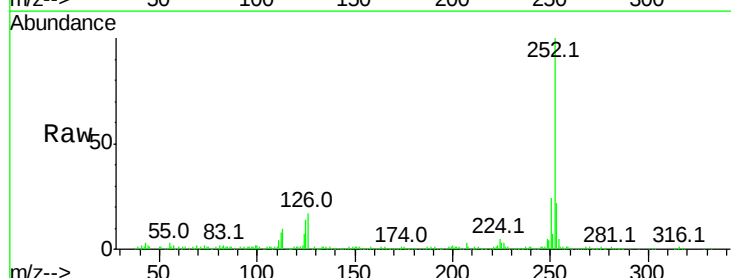


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

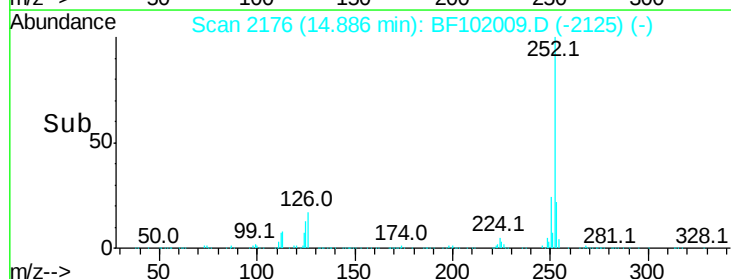
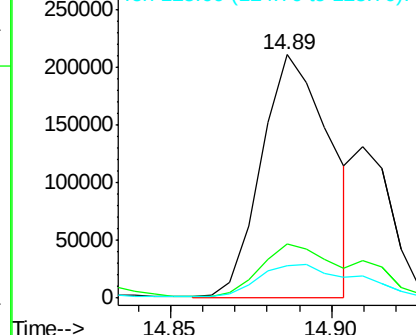


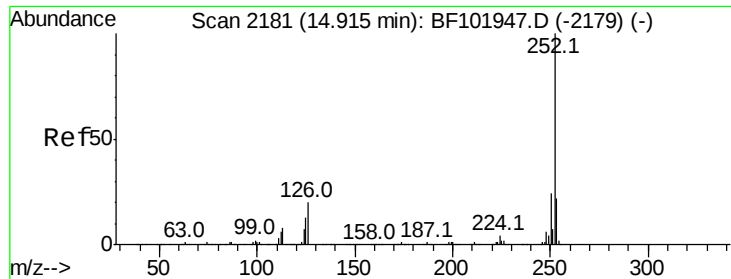
#87
Benzo(b)fluoranthene
Concen: 14.182 ng m
RT: 14.89 min Scan# 2176
Delta R.T. 0.00 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.6
125	13.6	9.0	13.6#



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





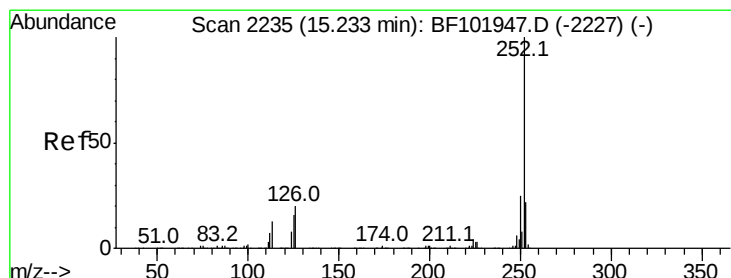
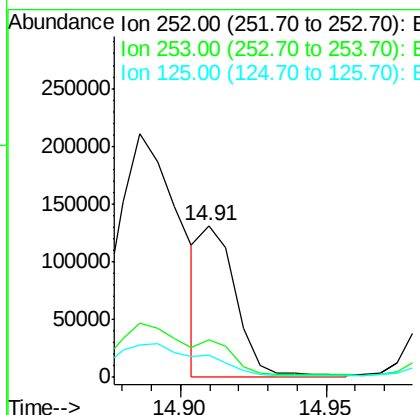
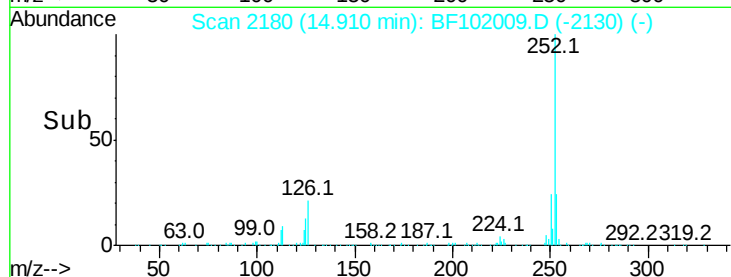
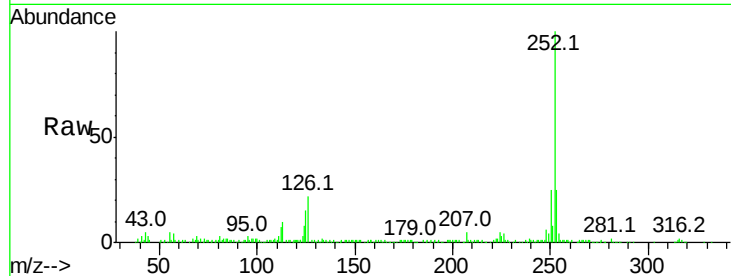
#88
Benzo(k)fluoranthene
Concen: 5.128 ng m
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	14.5	10.2	15.2

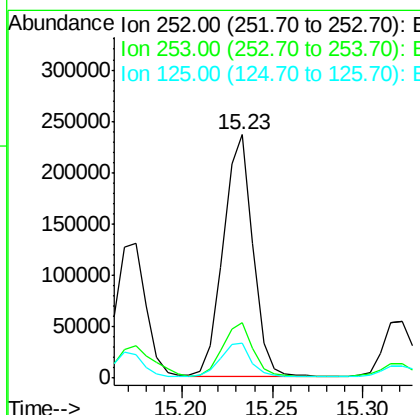
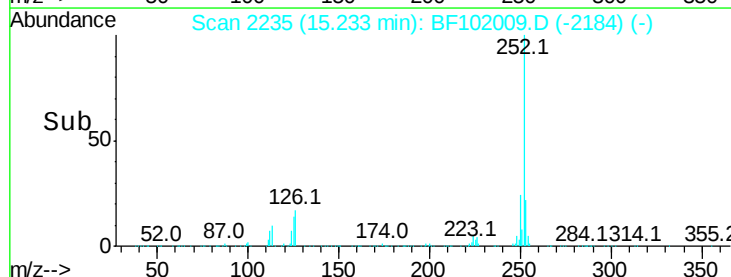
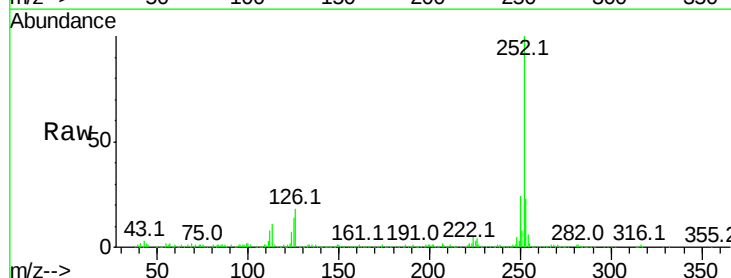
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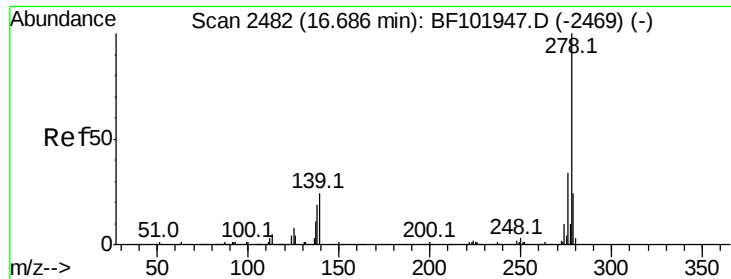
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#89
Benzo(a)pyrene
Concen: 13.399 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.00 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.1	25.7
125	14.3	9.8	14.6





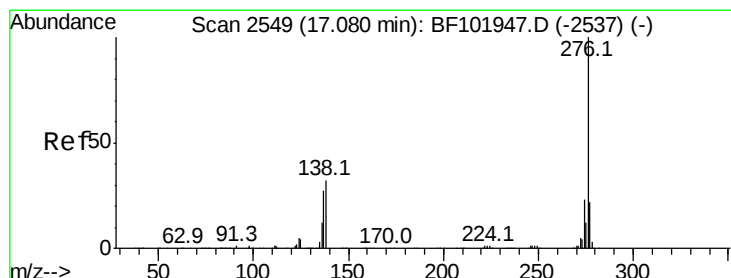
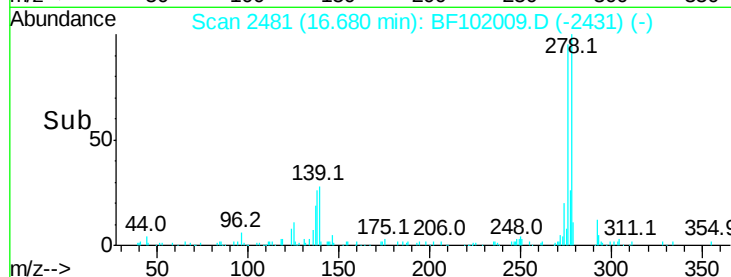
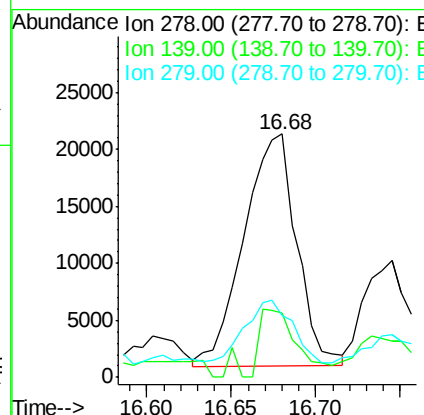
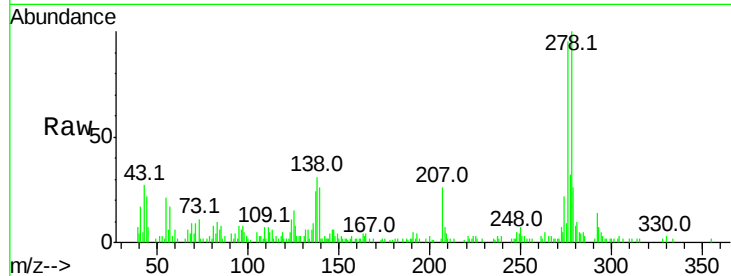
#90
Dibenzo(a,h)anthracene
Concen: 2.792 ng
RT: 16.68 min Scan# 2481
Delta R.T. -0.01 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.3	15.9	23.9#
279	25.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
1/12/2018 10:36:53 AM



#91
Benzo(g,h,i)perylene
Concen: 9.585 ng
RT: 17.07 min Scan# 2548
Delta R.T. -0.01 min
Lab File: BF102009.D
Acq: 11 Jan 2018 10:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	17.9	26.9
138	34.4	21.8	32.8#

