

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101995.D
 Acq On : 10 Jan 2018 22:36
 Operator : SJ/JU
 Sample : J1076-12 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-02

Manual Integrations
 APPROVED

Sohil
 1/11/2018 10:53:08 AM

Quant Time: Jan 11 04:16:33 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	6.73	152	216354	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	890939	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	374249	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	583648	20.00	ng	0.00
75) Chrysene-d12	13.87	240	335034	20.00	ng	0.00
86) Perylene-d12	15.30	264	385483	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6657	0.43	ng	0.00
7) Phenol-d6	6.35	99	7859	0.43	ng	0.00
23) Nitrobenzene-d5	7.28	82	4374	0.29	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1204	0.37	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	8970	0.37	ng	-0.01
78) Terphenyl-d14	12.82	244	6654	0.41	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.03	128	2396115	53.823	ng	99
37) 2-Methylnaphthalene	8.72	142	785027	26.785	ng	98
45) 1,1'-Biphenyl	9.19	154	161410	4.879	ng	96
48) Acenaphthylene	9.62	152	358516	8.807	ng	98
51) Acenaphthene	9.79	154	72029	2.915	ng	95
54) Dibenzofuran	9.96	168	197657	5.829	ng	# 95
57) Fluorene	10.31	166	458963	19.578	ng	100
70) Phenanthrene	11.27	178	1673777	49.095	ng	99
71) Anthracene	11.32	178	424148	12.267	ng	99
72) Carbazole	11.47	167	111126	3.270	ng	97
74) Fluoranthene	12.46	202	852561	25.417	ng	98
77) Pyrene	12.69	202	973510	32.872	ng	99
80) Benzo(a)anthracene	13.87	228	338916m	15.855	ng	
82) Chrysene	13.90	228	313321	14.057	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	176490	10.879	ng	99
87) Benzo(b)fluoranthene	14.89	252	314886m	12.528	ng	
88) Benzo(k)fluoranthene	14.91	252	123821m	5.107	ng	
89) Benzo(a)pyrene	15.23	252	325131m	14.375	ng	
90) Dibenzo(a,h)anthracene	16.68	278	47713	2.643	ng	# 86
91) Benzo(a,h,i)perylene	17.08	276	184857	10.167	ng	96

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

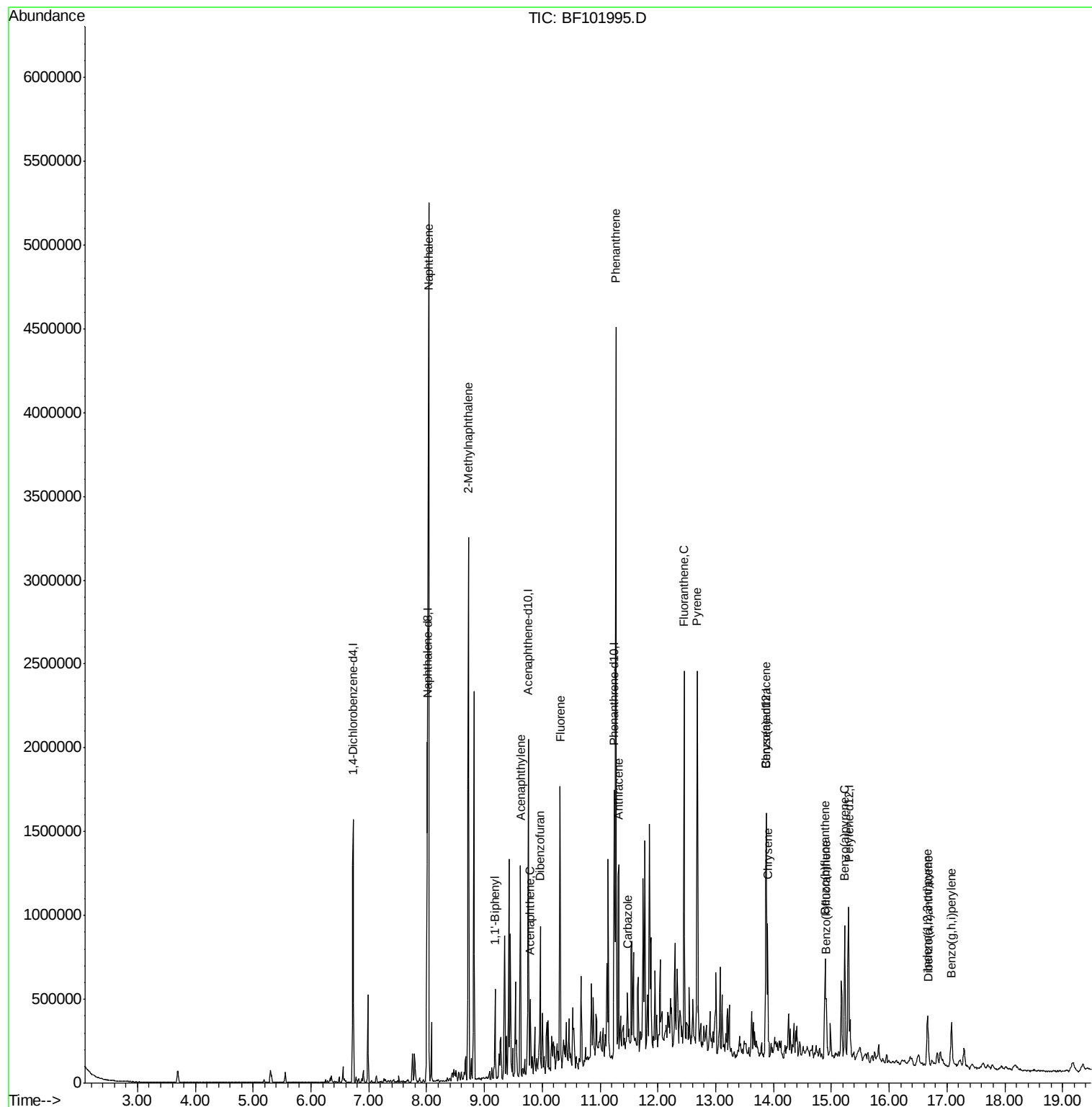
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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#1

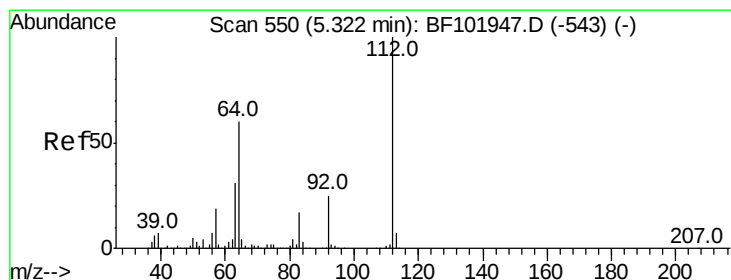
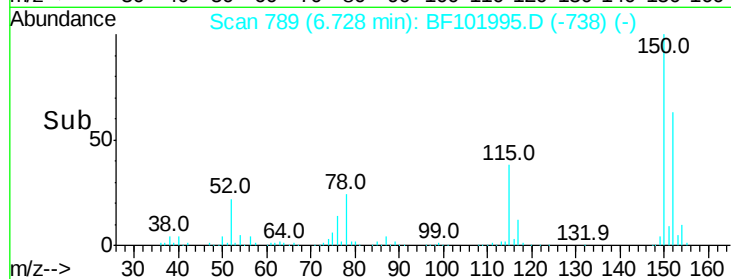
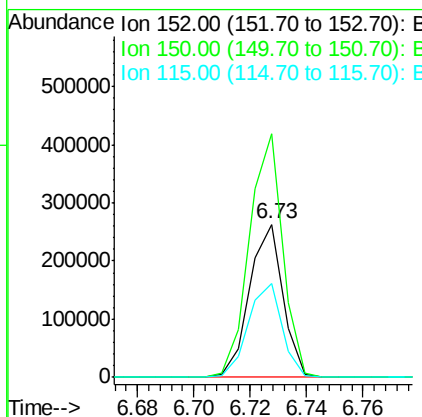
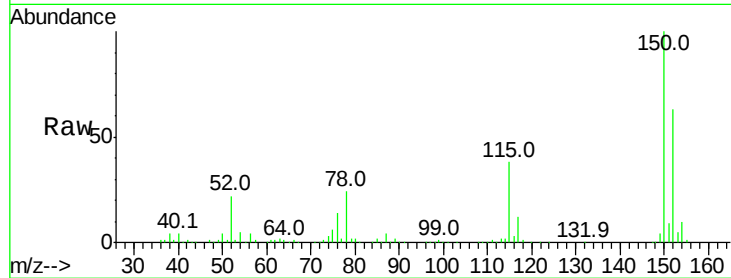
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Instrument :
BNA_F
ClientSampled :
WC-096613-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	124.6	186.8
115	61.1	50.1	75.1

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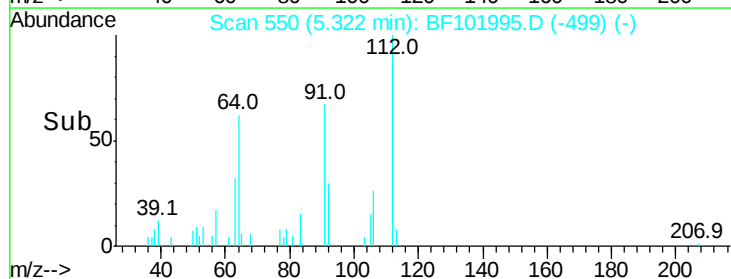
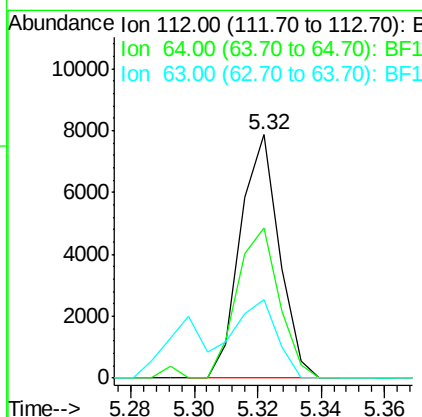
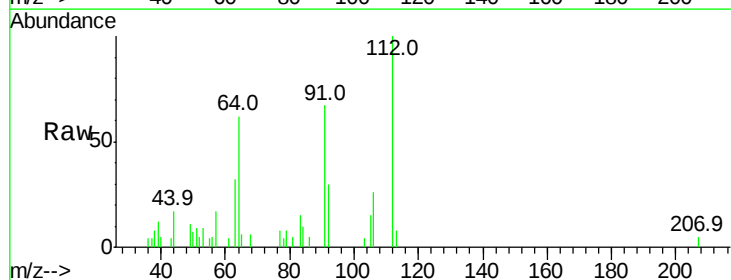
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#5

2-Fluorophenol
Concen: 0.434 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.00 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.9	47.9	71.9
63	32.5	23.7	35.5





#7

Phenol-d6

Concen: 0.430 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

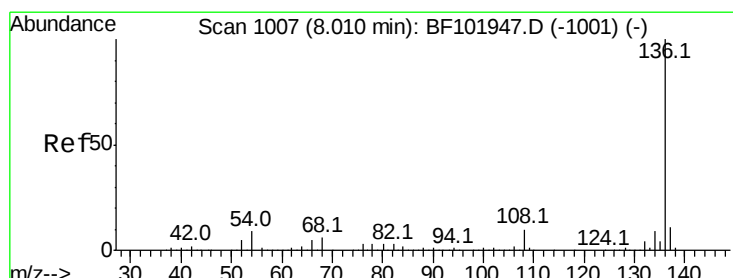
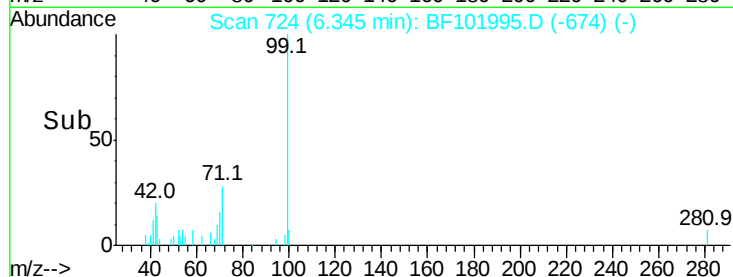
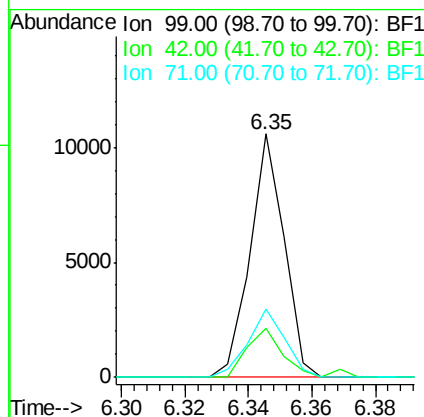
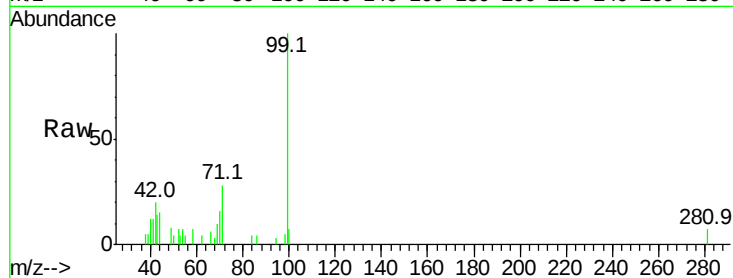
ClientSampleId :

WC-096613-02

Tot Ion:	99	Resp:	7859
Ion Ratio	Lower	Upper	
99	100		
42	20.2	14.5	21.7
71	28.2	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

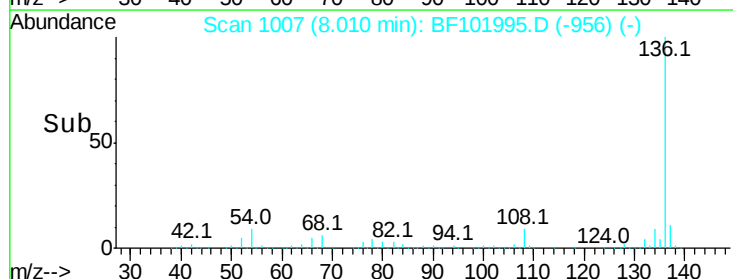
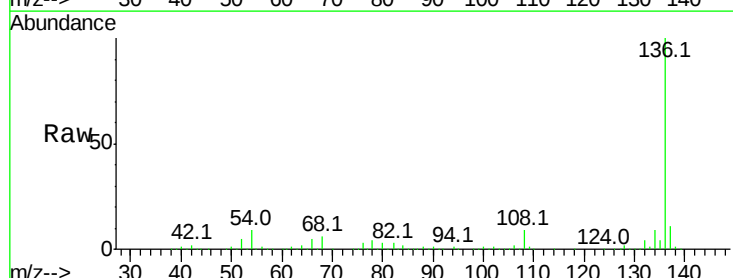
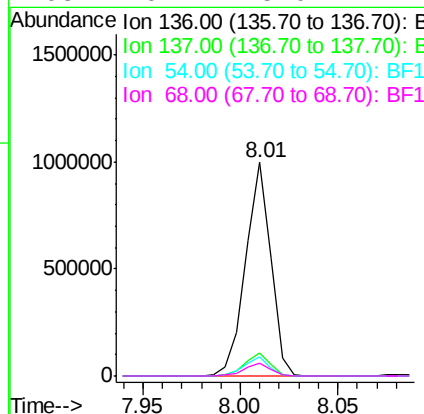
RT: 8.01 min Scan# 1007

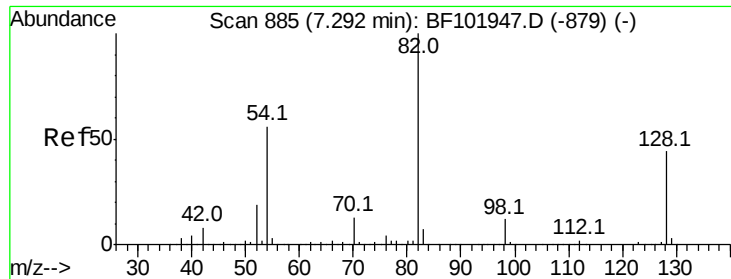
Delta R.T. -0.00 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion:	136	Resp:	890939
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	8.8	6.6	9.8
68	6.1	5.0	7.4





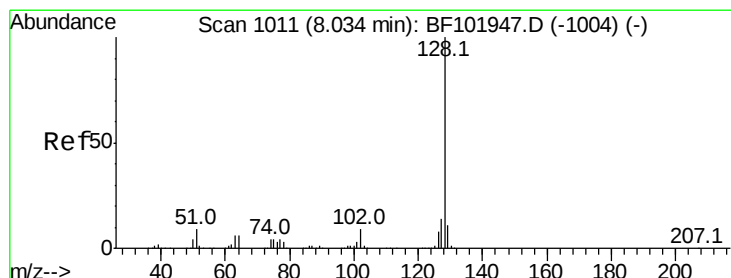
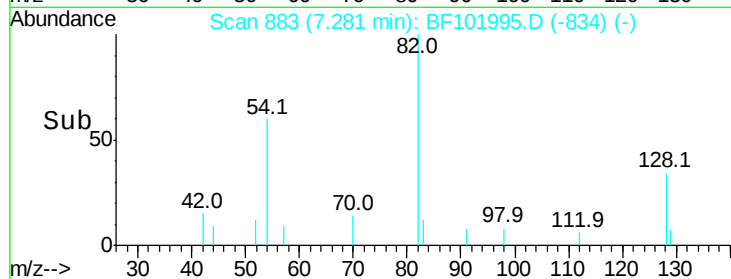
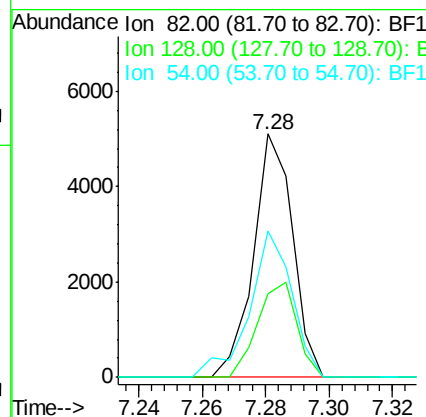
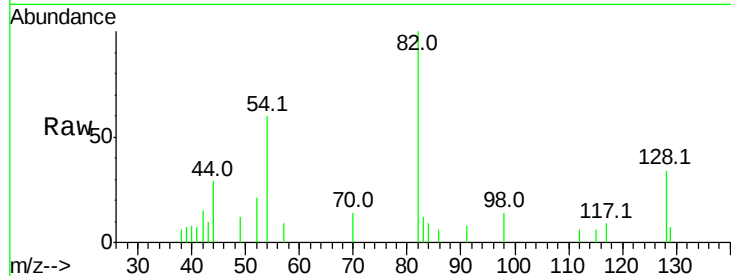
#23
Nitrobenzene-d5
Concen: 0.288 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

Tot Ion: 82 Resp: 4374
Ion Ratio Lower Upper
82 100
128 34.3 36.1 54.1#
54 60.1 41.4 62.2

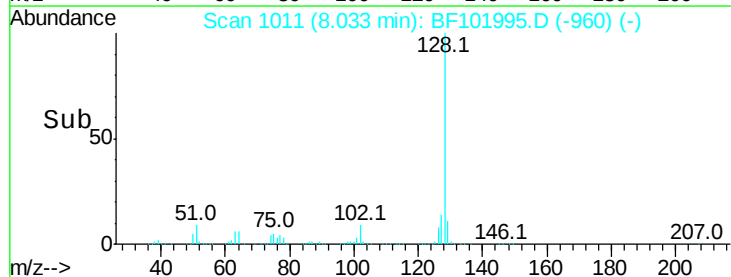
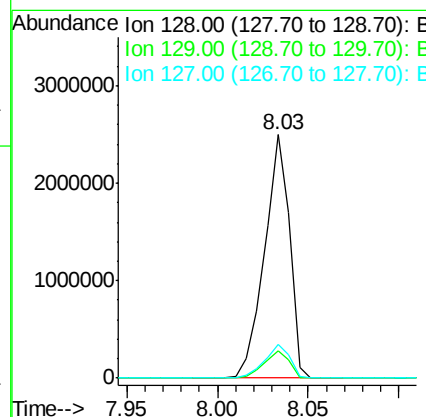
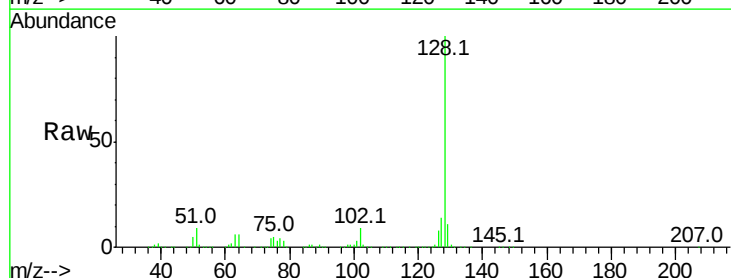
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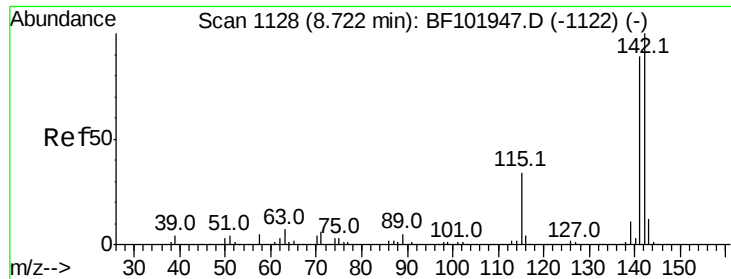
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#31
Naphthalene
Concen: 53.823 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Tgt Ion: 128 Resp: 2396115
Ion Ratio Lower Upper
128 100
129 11.4 8.8 13.2
127 14.1 10.9 16.3





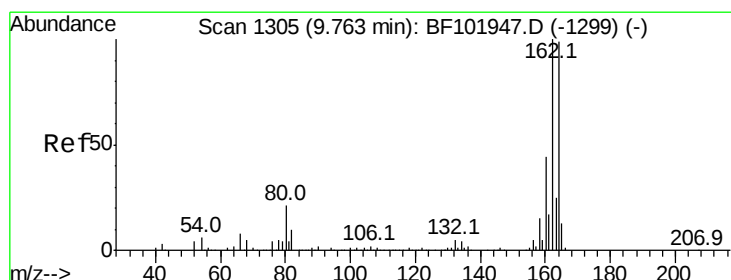
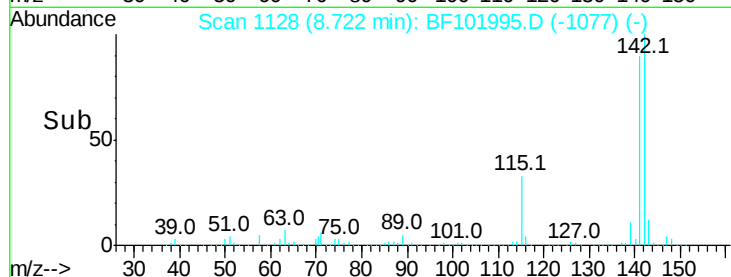
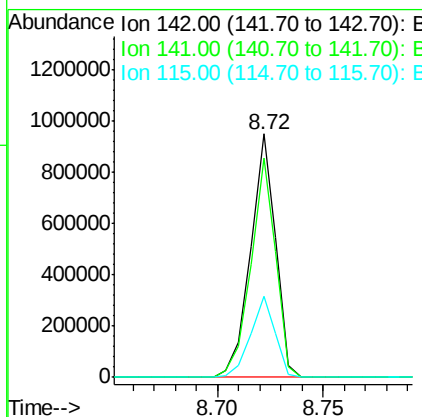
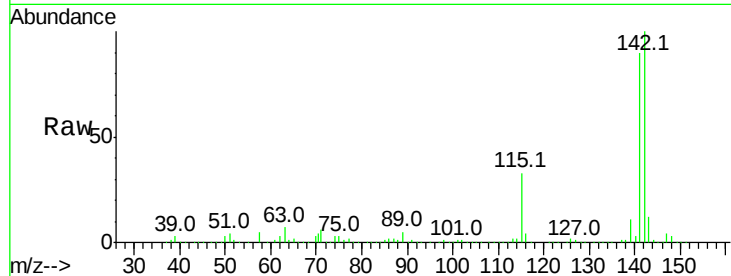
#37
2-Methylnaphthalene
Concen: 26.785 ng
RT: 8.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.8	106.2
115	33.3	26.1	39.1

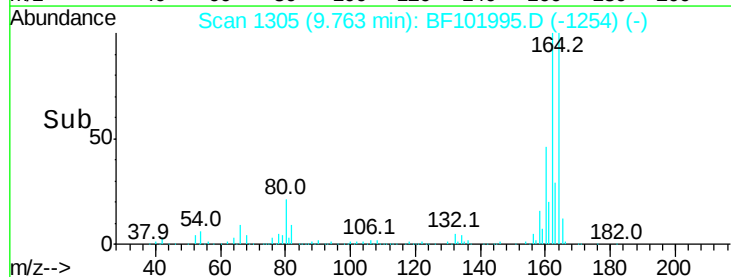
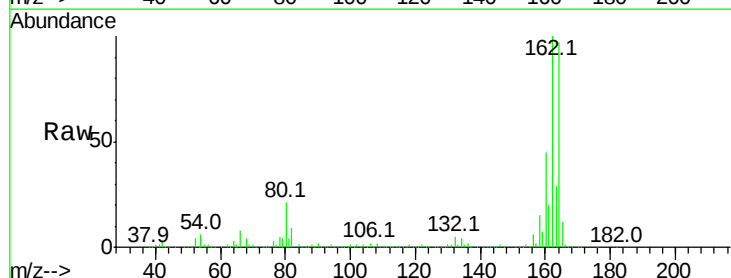
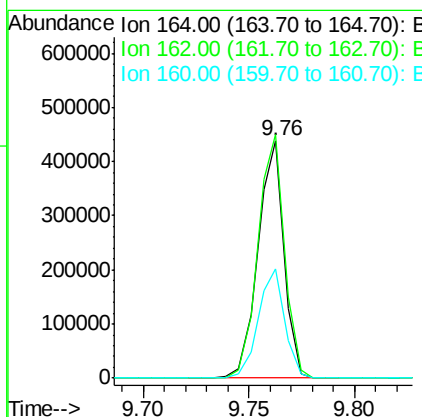
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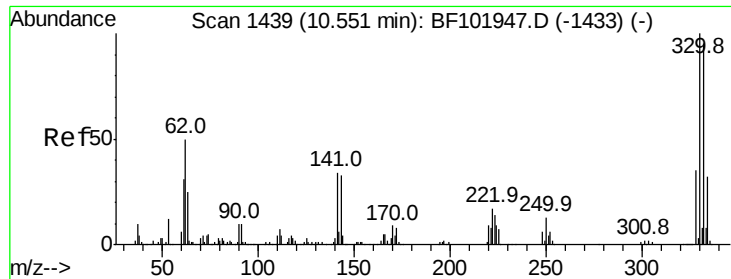
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	86.1	129.1
160	46.0	38.3	57.5





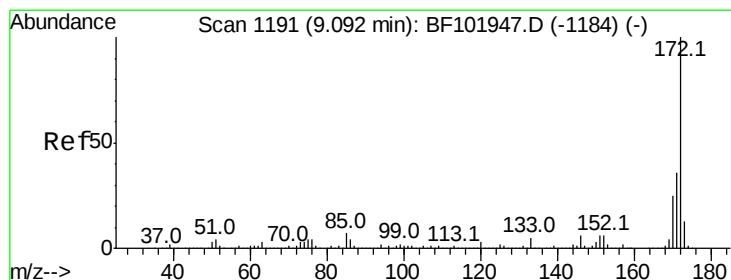
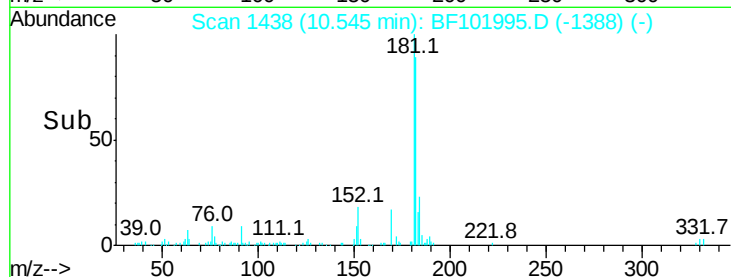
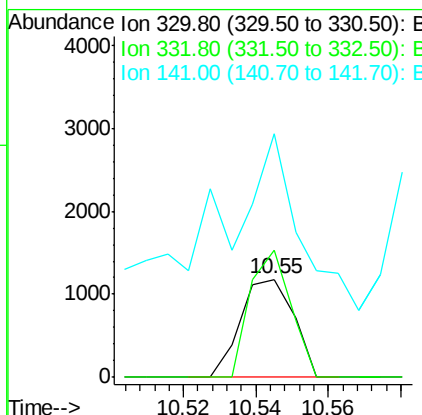
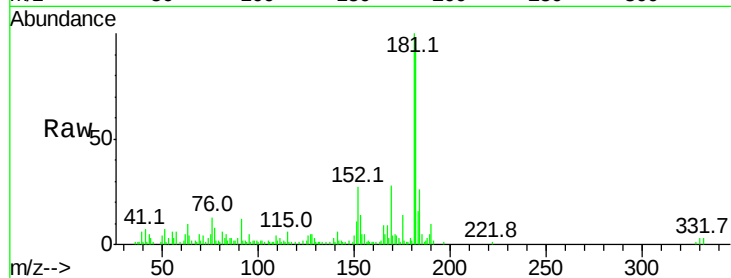
#41
 2,4,6-Tribromophenol
 Concen: 0.369 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF101995.D
 Acq: 10 Jan 2018 22:36

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-02

Tot Ion	Ratio	Lower	Upper
330	100		
332	99.4	77.0	115.6
141	298.6	29.9	44.9#

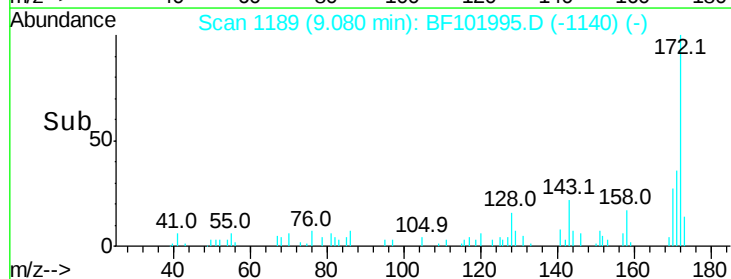
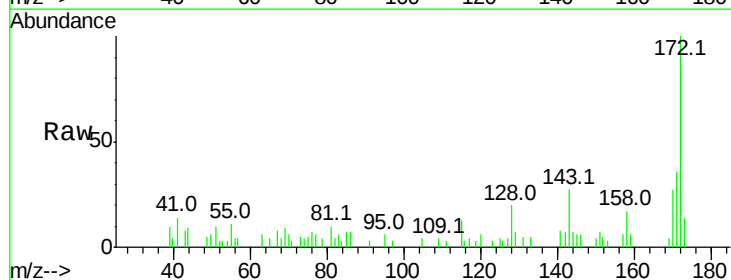
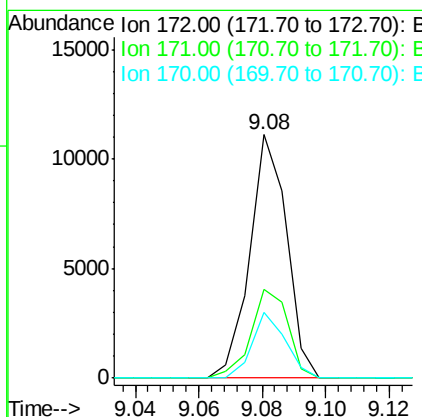
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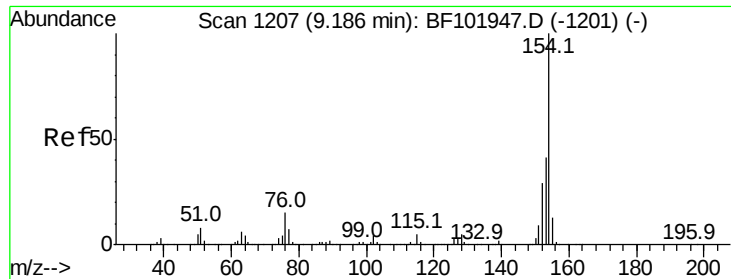
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#44
 2-Fluorobiphenyl
 Concen: 0.374 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF101995.D
 Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.7	44.5
170	26.9	19.6	29.4





#45

1,1'-Biphenyl

Concen: 4.879 ng

RT: 9.19 min Scan# 1207

Delta R.T. -0.00 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

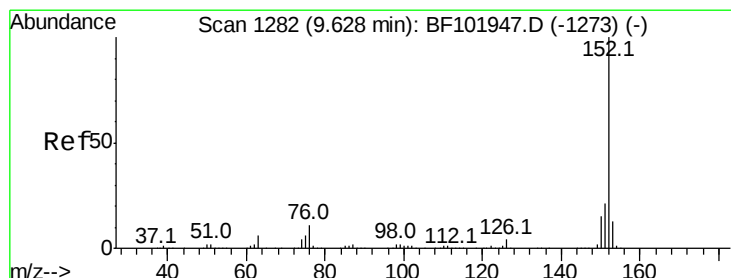
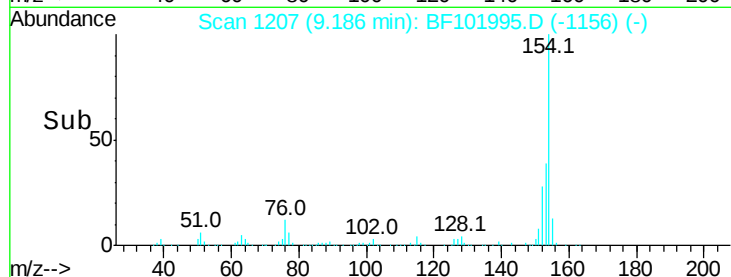
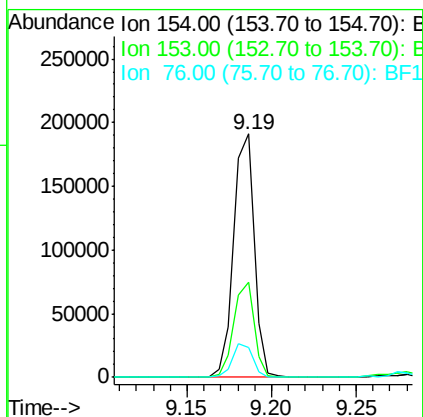
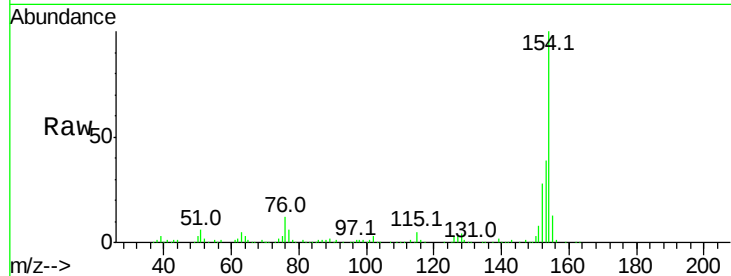
ClientSampled :

WC-096613-02

Tot Ion:	154	Resp:	161410
Ion Ratio	Lower	Upper	
154	100		
153	38.9	21.3	61.3
76	12.2	0.0	34.0

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#48

Acenaphthylene

Concen: 8.807 ng

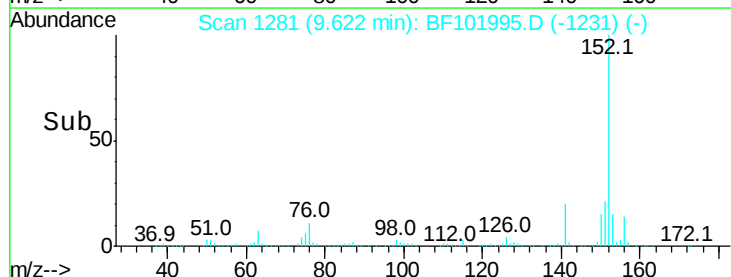
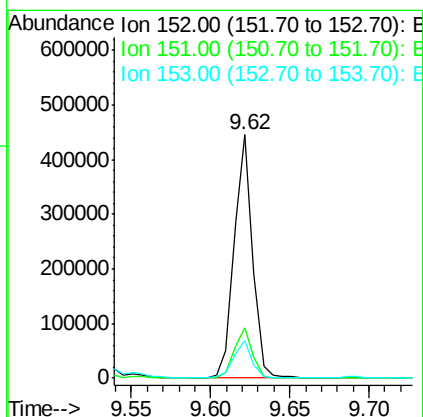
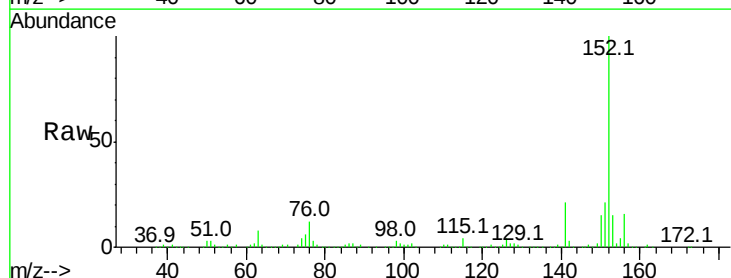
RT: 9.62 min Scan# 1281

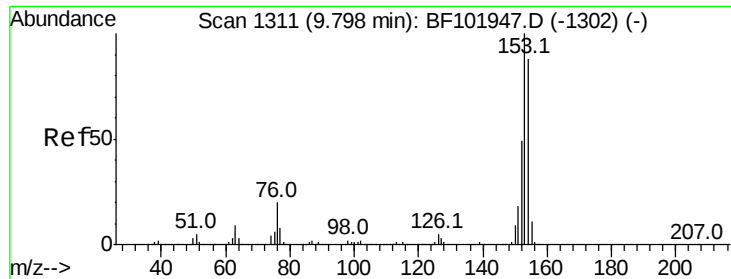
Delta R.T. -0.01 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion:	152	Resp:	358516
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.3	24.5
153	15.2	10.7	16.1





#51

Acenaphthene

Concen: 2.915 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

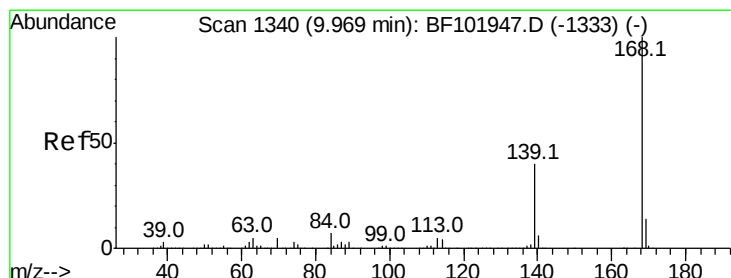
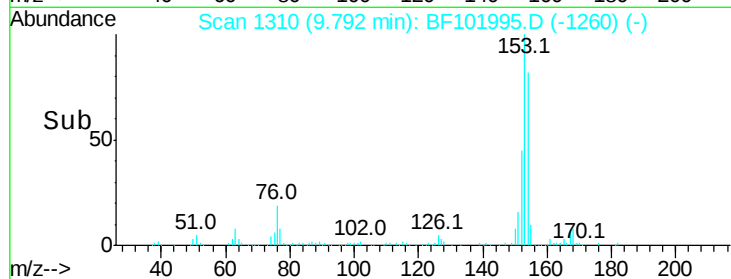
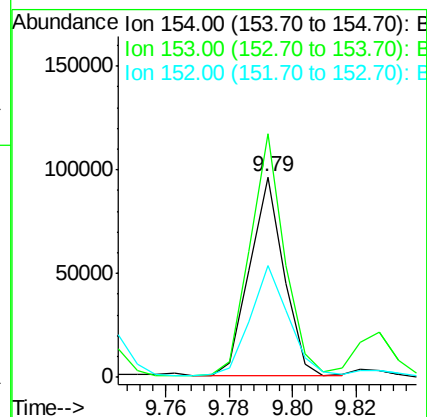
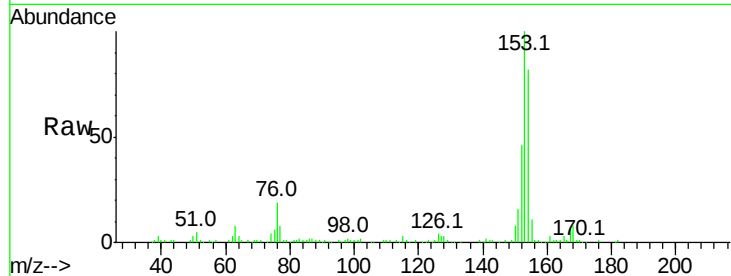
ClientSampleId :

WC-096613-02

Tot Ion:	154	Resp:	72029
Ion Ratio	Lower	Upper	
154	100		
153	121.3	91.2	136.8
152	55.6	43.8	65.8

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#54

Dibenzofuran

Concen: 5.829 ng

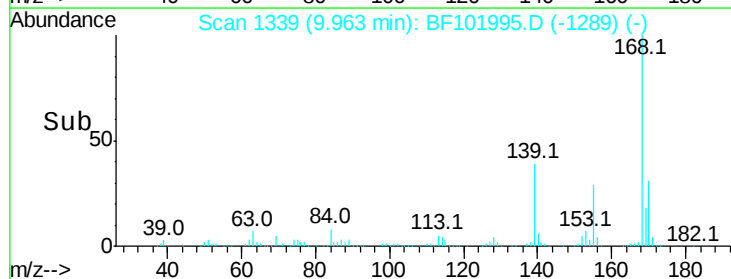
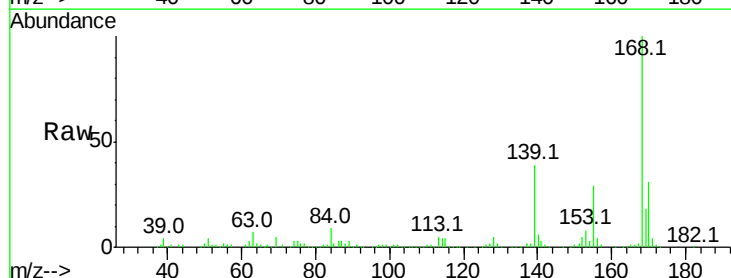
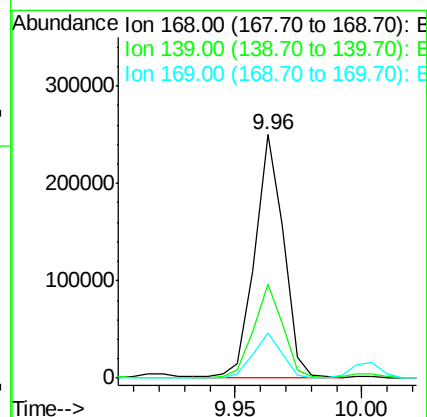
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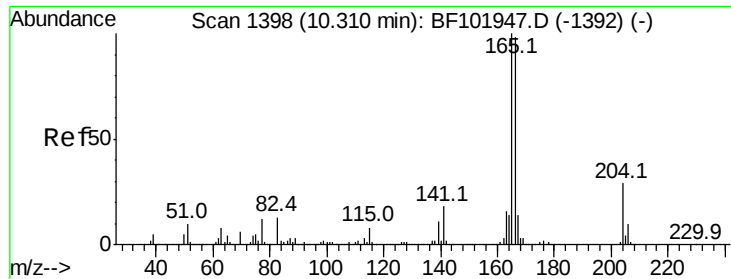
Delta R.T. -0.01 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion:	168	Resp:	197657
Ion Ratio	Lower	Upper	
168	100		
139	38.8	30.1	45.1
169	18.4	10.9	16.3#





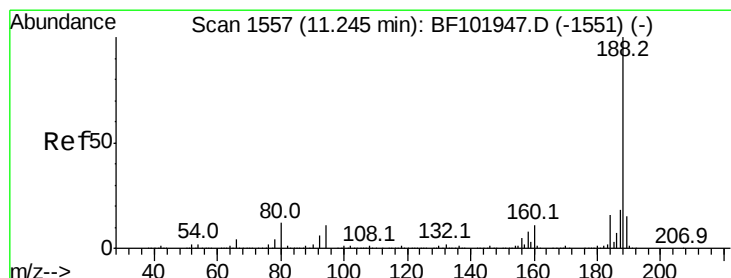
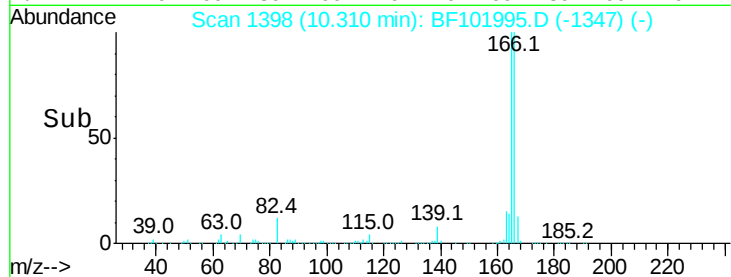
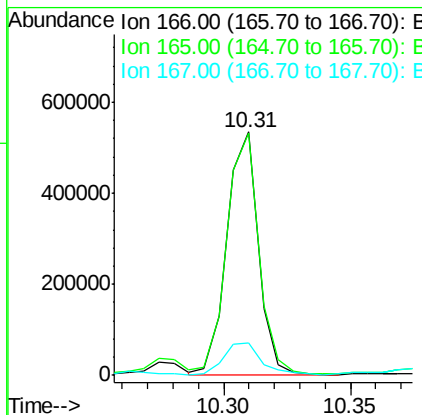
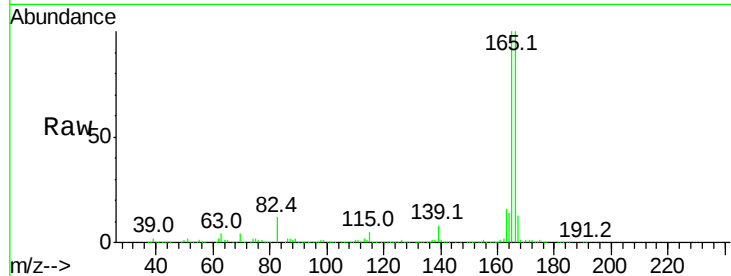
#57
Fluorene
 Concen: 19.578 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. 0.00 min
 Lab File: BF101995.D
 Acq: 10 Jan 2018 22:36

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-02

Tot Ion	Ratio	Resp	Lower	Upper
166	100	458963		
165	99.8	79.8	119.8	
167	13.4	10.6	16.0	

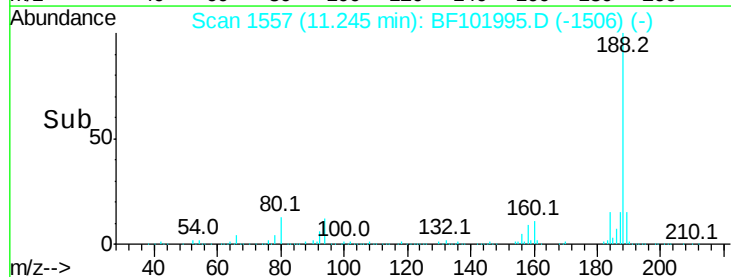
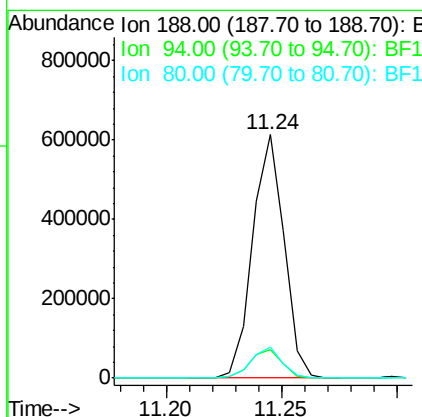
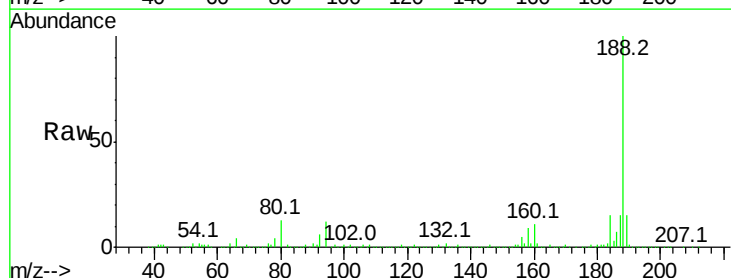
Manual Integrations
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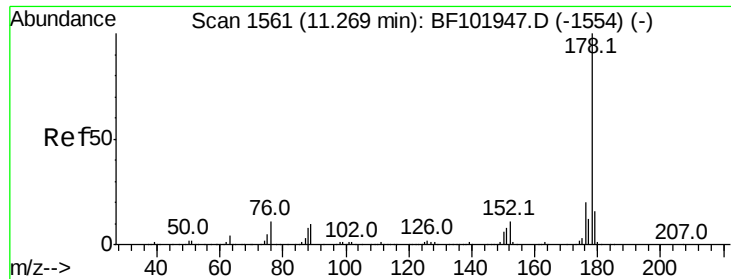
Sohil
 1/11/2018 10:53:08 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. -0.00 min
 Lab File: BF101995.D
 Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	583648		
94	11.6	8.5	12.7	
80	12.7	9.2	13.8	





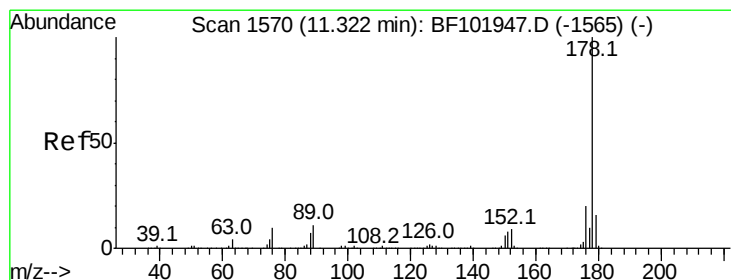
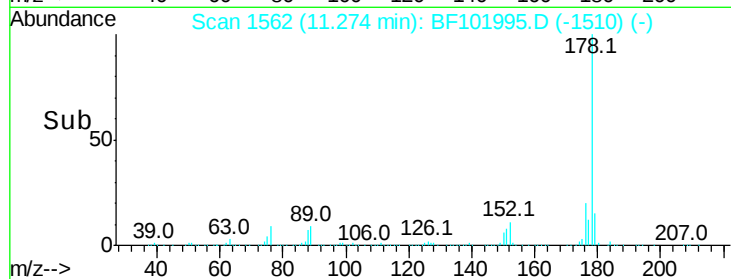
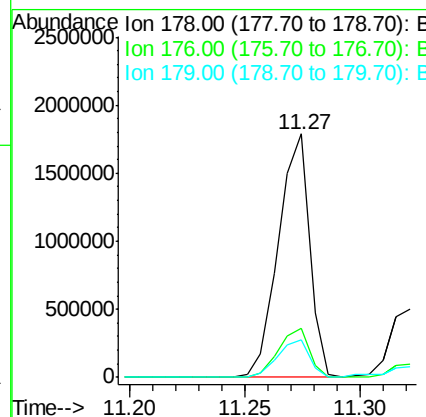
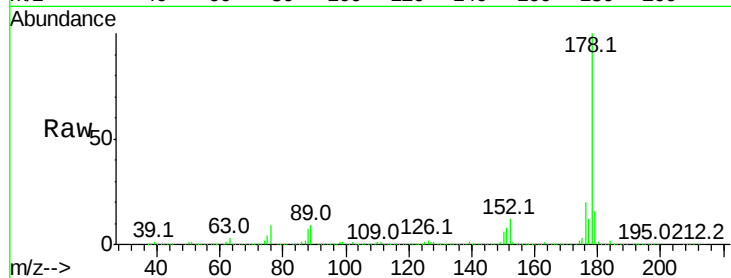
#70
Phenanthrene
Concen: 49.095 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.01 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

Tot Ion:178 Resp: 1673777
Ion Ratio Lower Upper
178 100
176 20.3 15.8 23.8
179 15.5 13.0 19.6

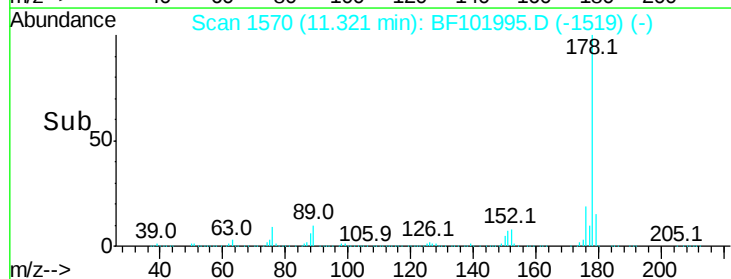
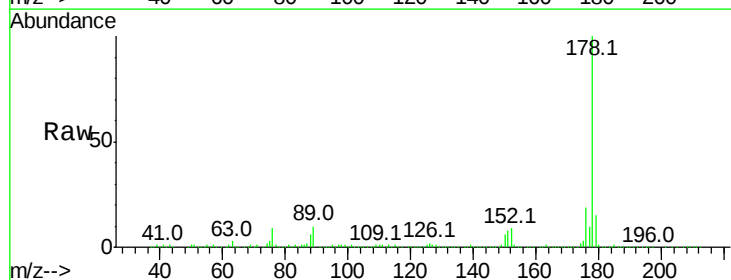
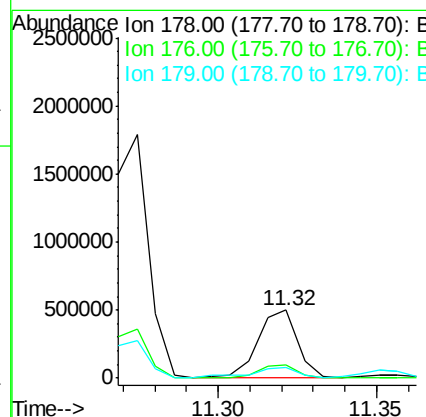
Manual Integrations
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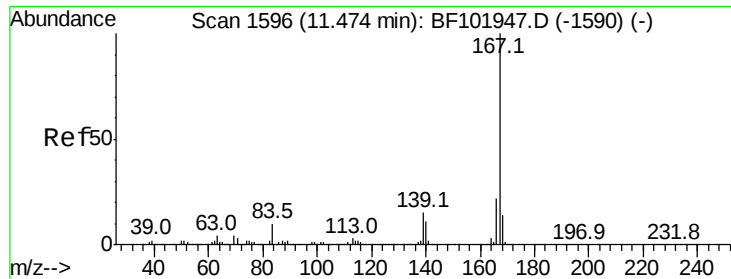
Sohil
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#71
Anthracene
Concen: 12.267 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.00 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Tgt Ion:178 Resp: 424148
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.4 12.6 19.0





#72

Carbazole

Concen: 3.270 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

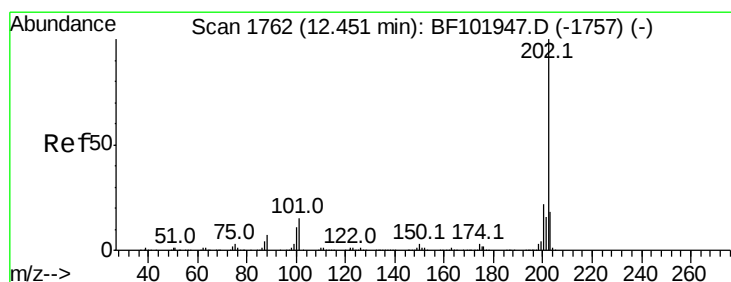
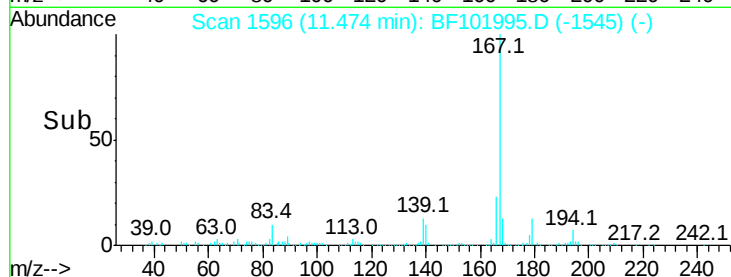
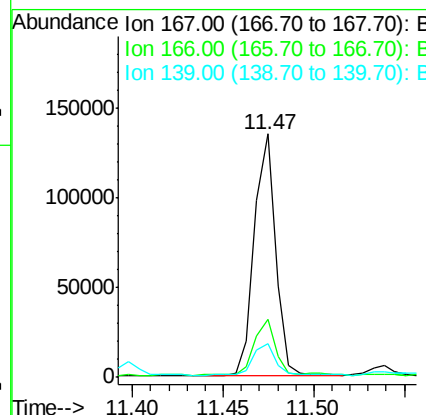
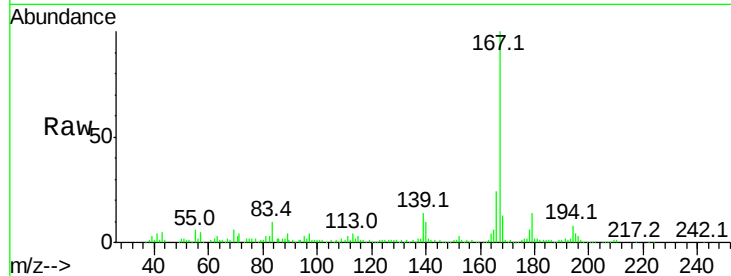
ClientSampleId :

WC-096613-02

Tot Ion:	167	Resp:	111126
Ion Ratio	Lower	Upper	
167	100		
166	23.7	17.6	26.4
139	14.1	10.9	16.3

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#74

Fluoranthene

Concen: 25.417 ng

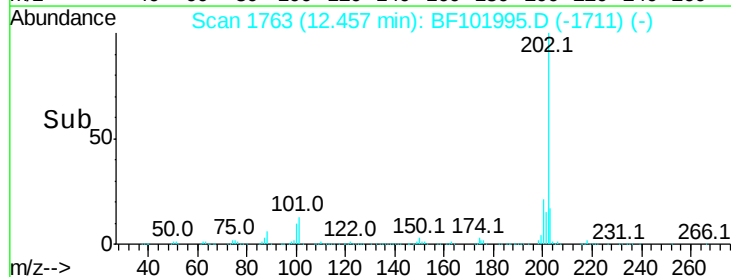
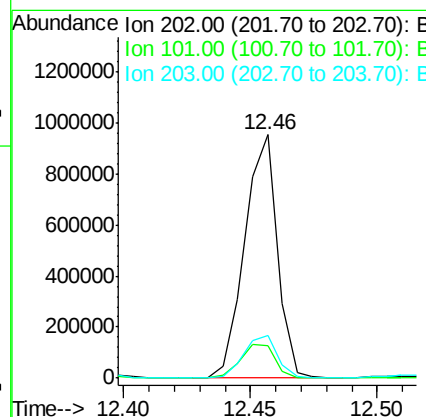
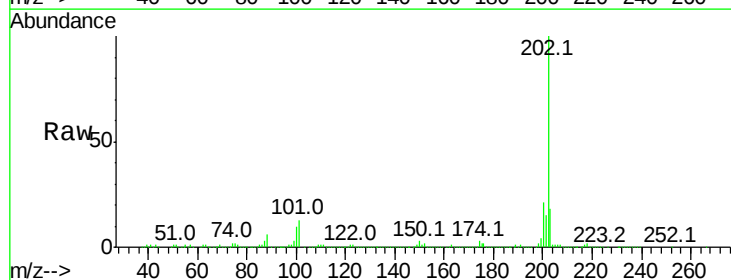
RT: 12.46 min Scan# 1763

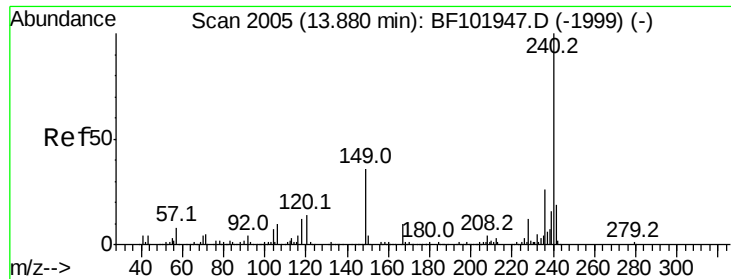
Delta R.T. 0.01 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion:	202	Resp:	852561
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	34.1
203	17.6	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: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

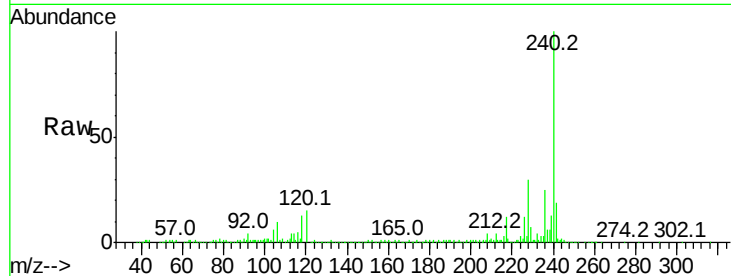
ClientSampleId :

WC-096613-02

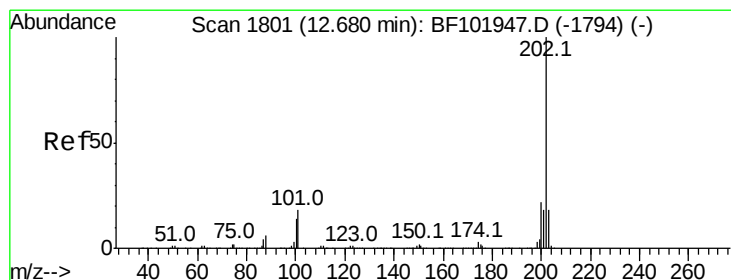
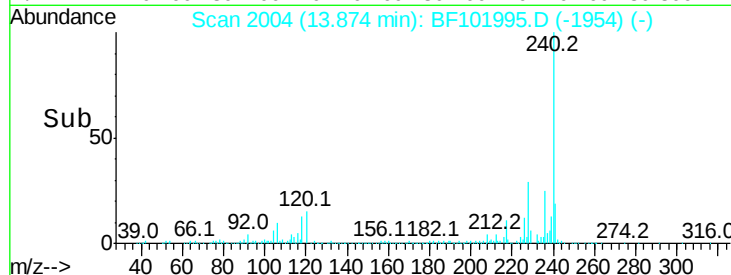
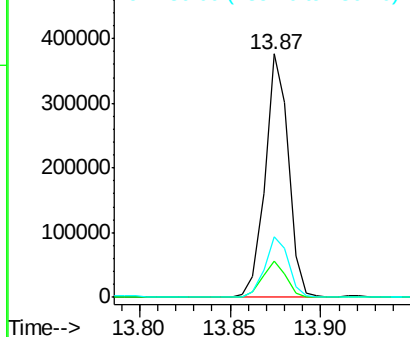
Tot Ion	Ratio	Lower	Upper
240	100		
120	14.9	9.5	14.3#
236	24.9	20.7	31.1

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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: 32.872 ng

RT: 12.69 min Scan# 1802

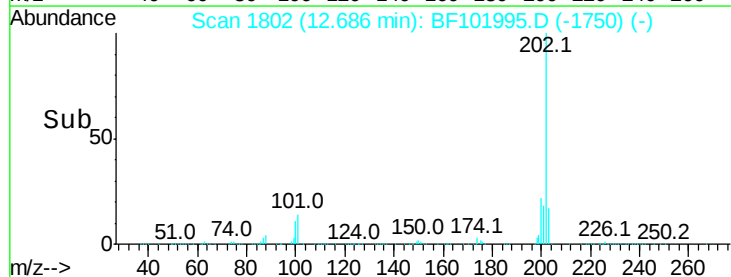
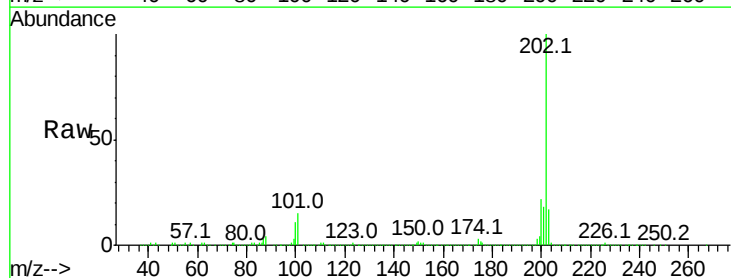
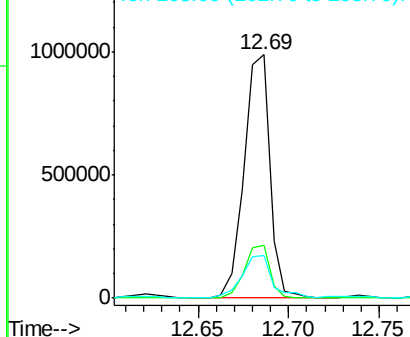
Delta R.T. 0.01 min

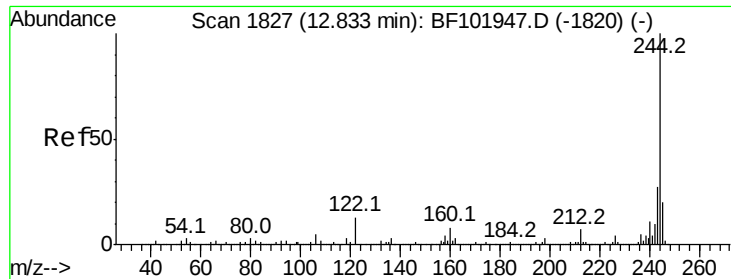
Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	17.4	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: 0.412 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

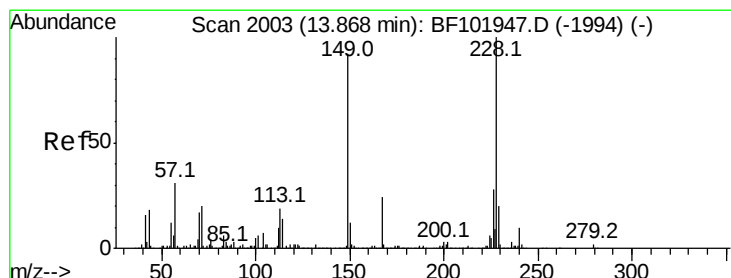
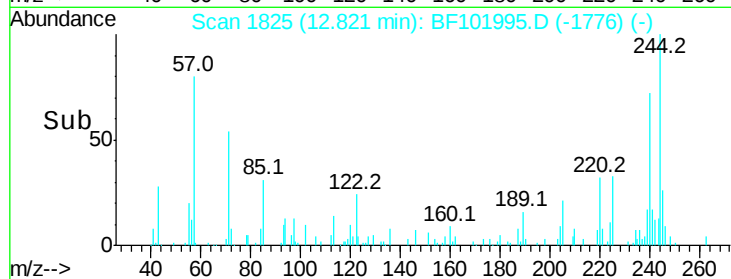
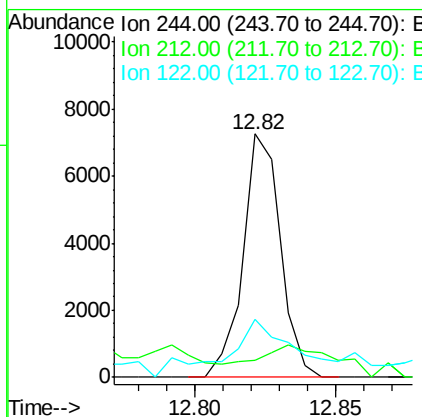
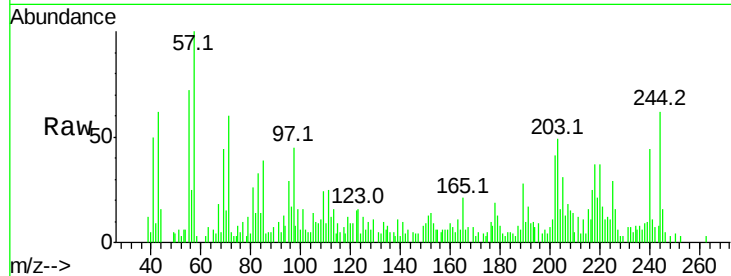
ClientSampleId :

WC-096613-02

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	23.7	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 15.855 ng m

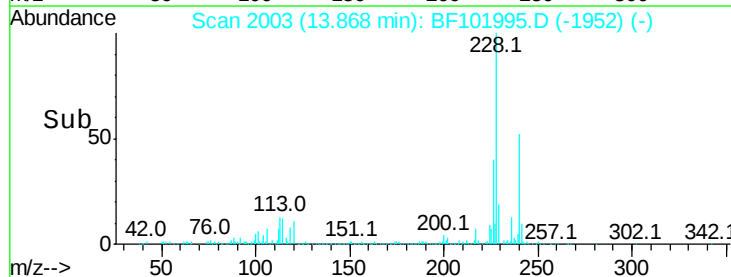
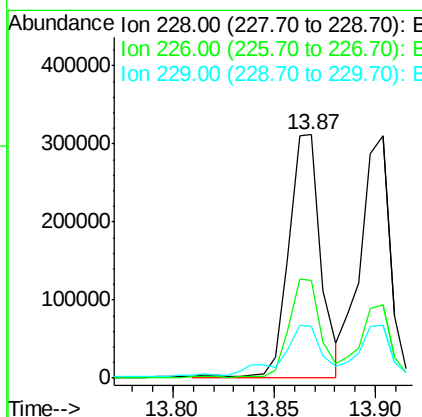
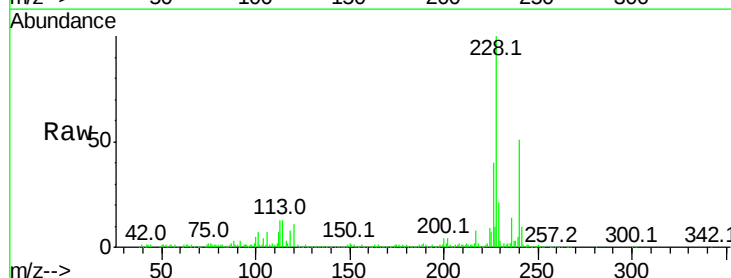
RT: 13.87 min Scan# 2003

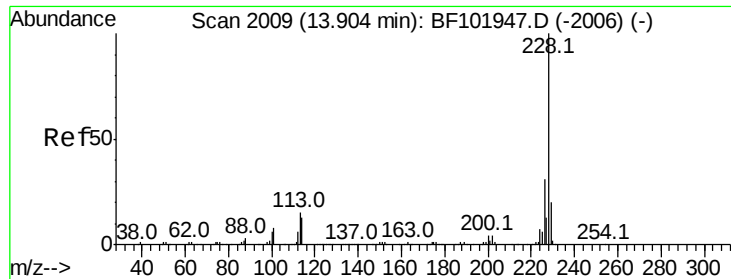
Delta R.T. -0.00 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	40.4	22.6	33.8
229	21.0	15.8	23.6





#82

Chrysene

Concen: 14.057 ng

RT: 13.90 min Scan# 2009

Delta R.T. -0.00 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

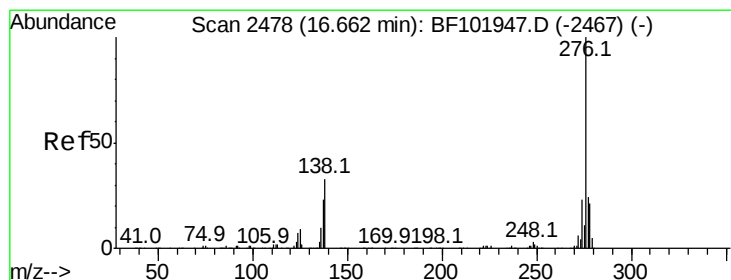
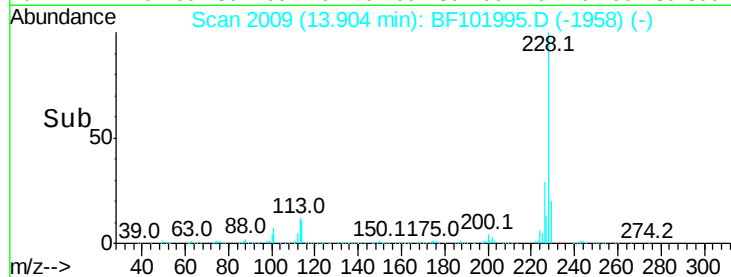
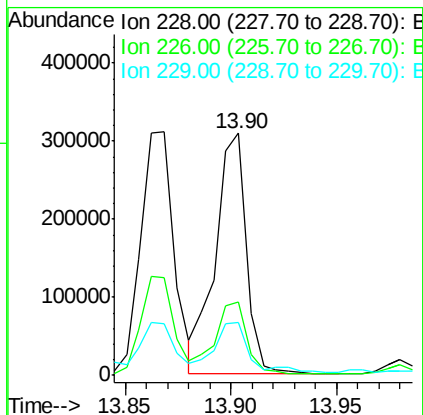
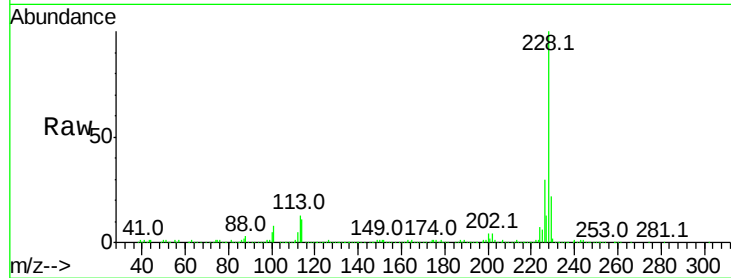
ClientSampleId :

WC-096613-02

Tot Ion:	228	Resp:	313321
Ion Ratio	Lower	Upper	
228	100		
226	30.1	25.0	37.6
229	21.8	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 10.879 ng

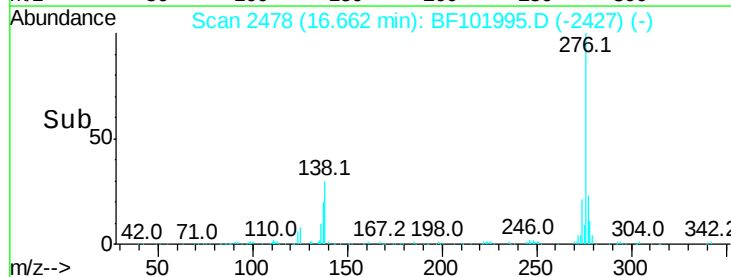
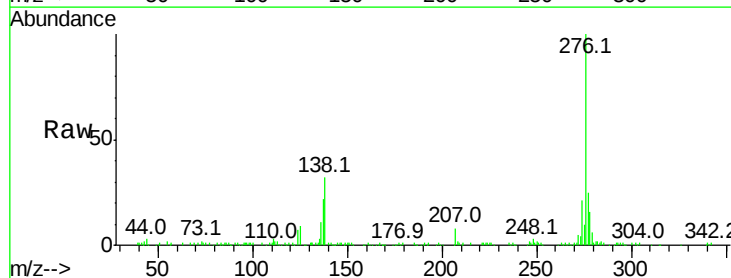
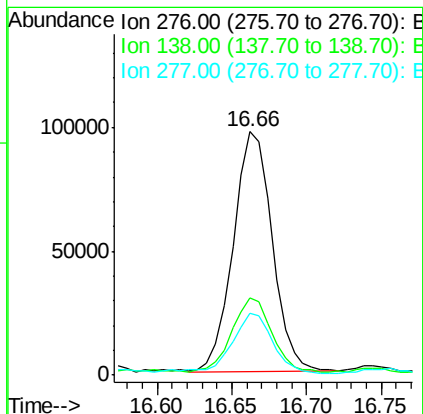
RT: 16.66 min Scan# 2478

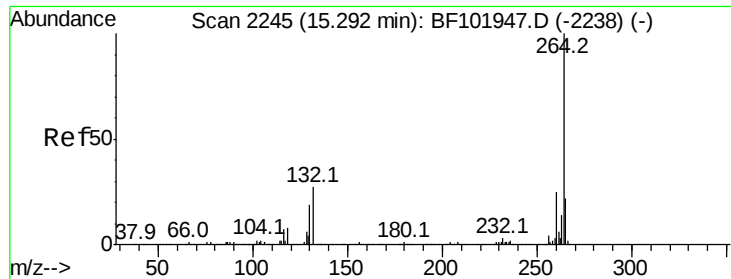
Delta R.T. -0.00 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion:	276	Resp:	176490
Ion Ratio	Lower	Upper	
276	100		
138	31.4	25.0	37.6
277	25.6	20.1	30.1





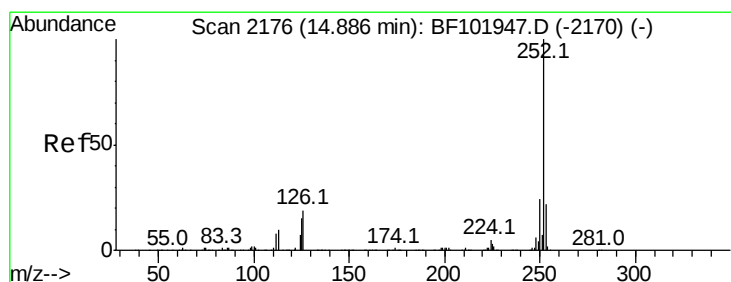
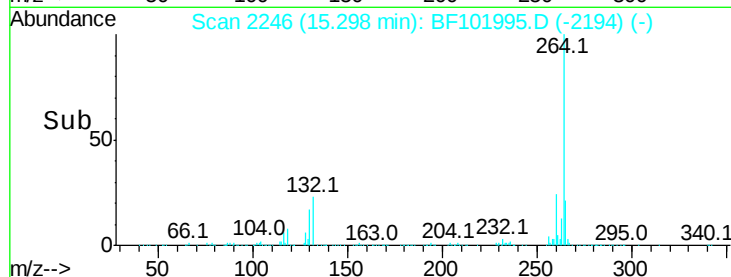
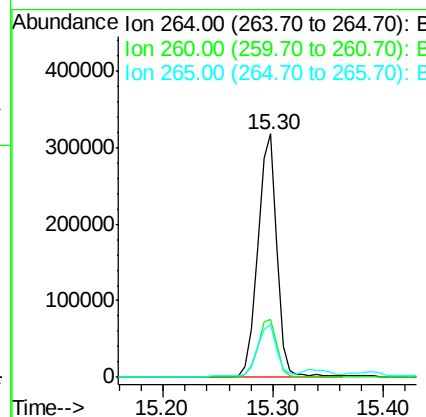
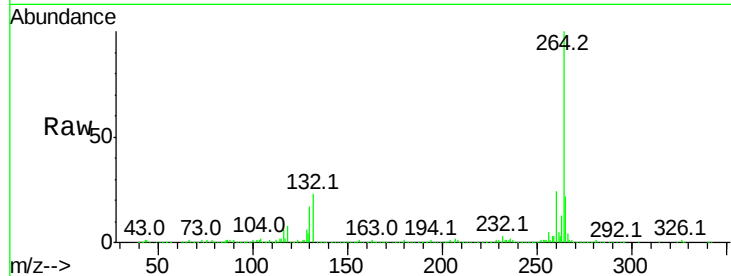
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. 0.01 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	21.5	17.5	26.3

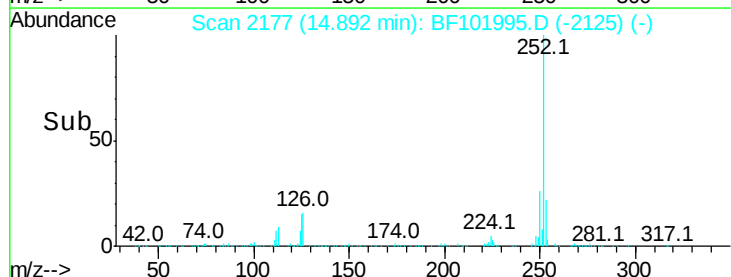
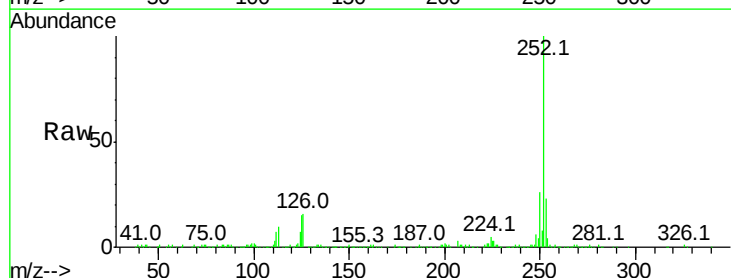
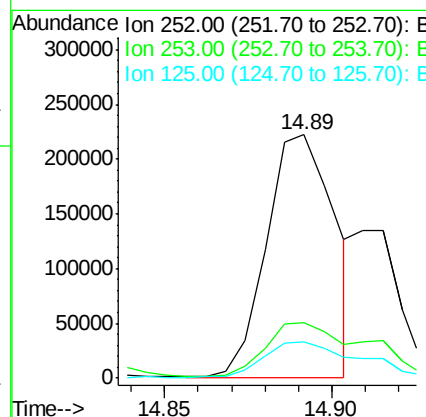
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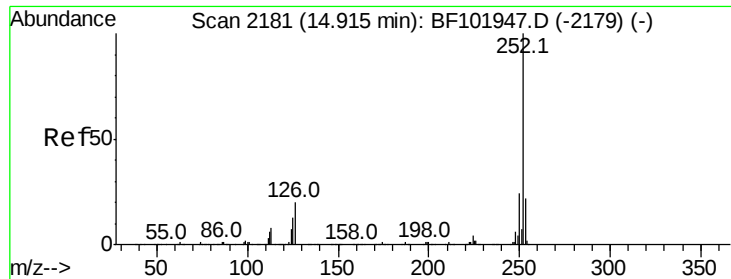
Sohil
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#87
Benzo(b)fluoranthene
Concen: 12.528 ng m
RT: 14.89 min Scan# 2177
Delta R.T. 0.01 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	14.8	9.0	13.6#





#88

Benzo(k)fluoranthene

Concen: 5.107 ng m

RT: 14.91 min Scan# 2180

Delta R.T. -0.01 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Instrument :

BNA_F

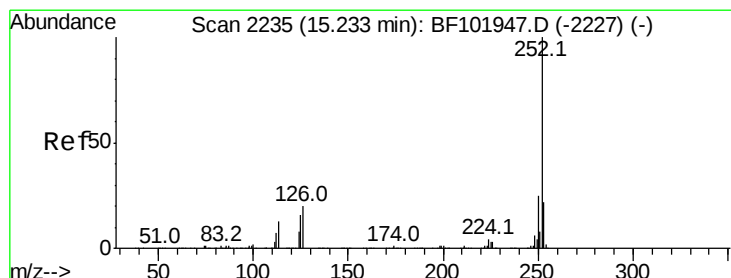
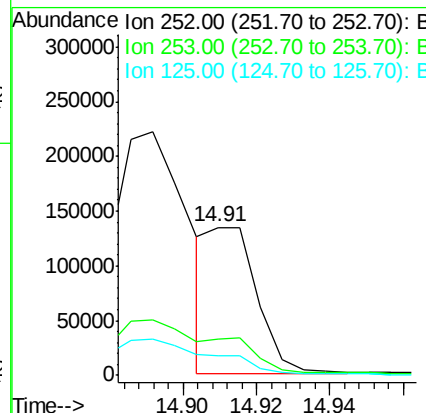
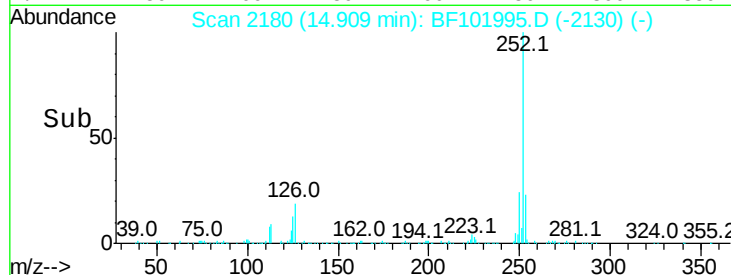
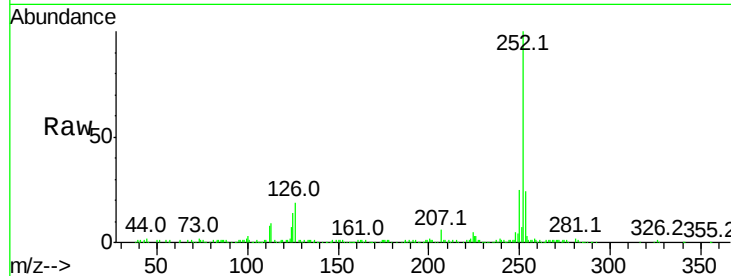
ClientSampleId :

WC-096613-02

Tot Ion:	252	Resp:	123821
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.9	26.9
125	13.6	10.2	15.2

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 14.375 ng m

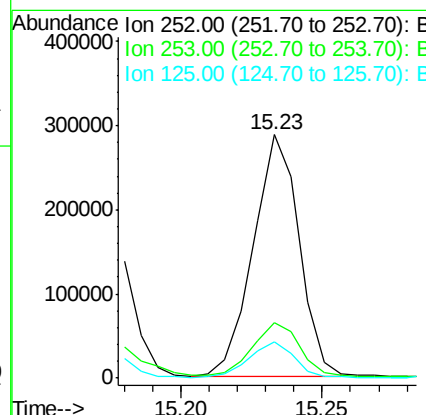
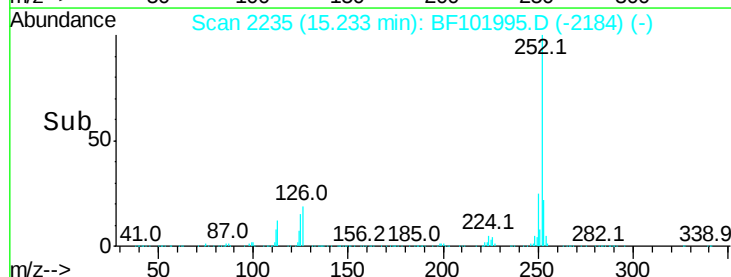
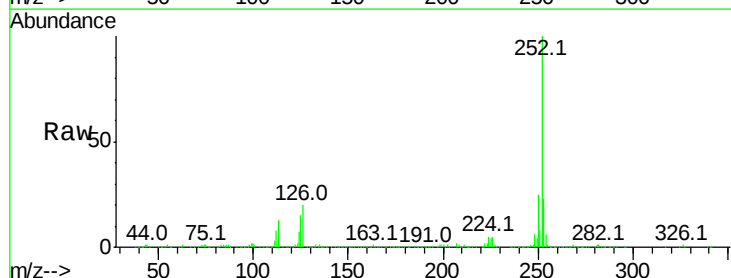
RT: 15.23 min Scan# 2235

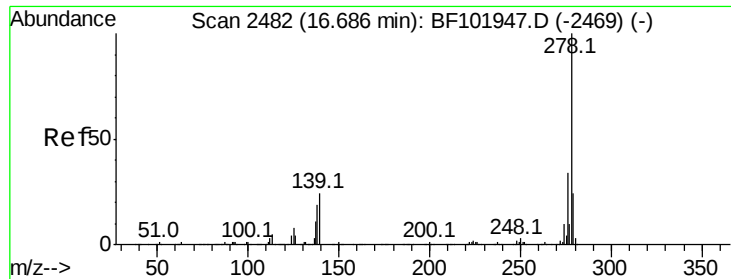
Delta R.T. -0.00 min

Lab File: BF101995.D

Acq: 10 Jan 2018 22:36

Tgt Ion:	252	Resp:	325131
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.1	25.7
125	15.1	9.8	14.6#





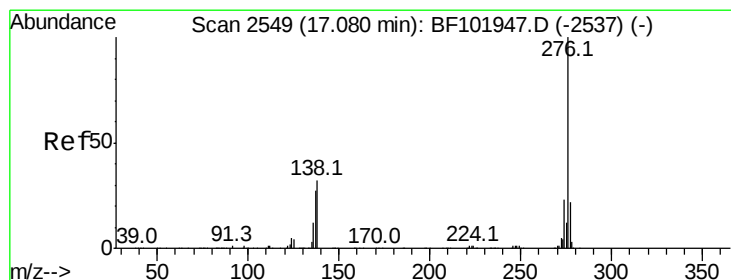
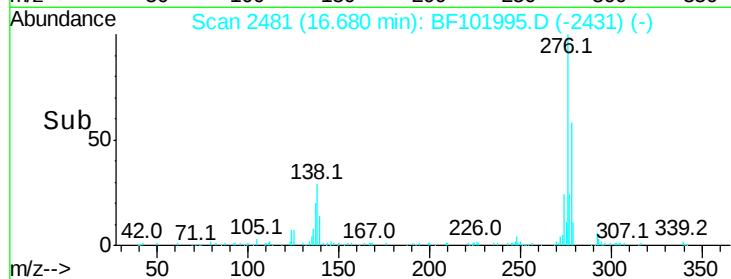
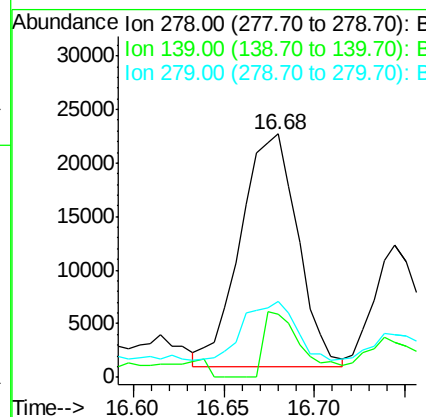
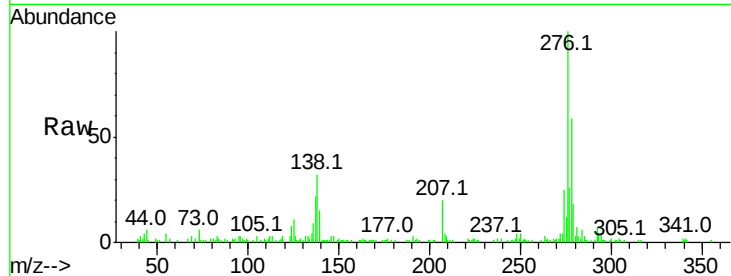
#90
Dibenzo(a,h)anthracene
Concen: 2.643 ng
RT: 16.68 min Scan# 2481
Delta R.T. -0.01 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.8	15.9	23.9#
279	31.4	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:08 AM



#91
Benzo(g,h,i)perylene
Concen: 10.167 ng
RT: 17.08 min Scan# 2549
Delta R.T. -0.00 min
Lab File: BF101995.D
Acq: 10 Jan 2018 22:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	30.5	21.8	32.8

