

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
 Data File : BF102010.D
 Acq On : 11 Jan 2018 10:56
 Operator : SJ/JU
 Sample : J1076-17 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-52-01

Manual Integrations
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Sohil
 1/12/2018 10:36:55 AM

Quant Time: Jan 11 13:31:04 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	215350	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	882534	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	366737	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	611045	20.00	ng	0.00
75) Chrysene-d12	13.88	240	342414	20.00	ng	0.00
86) Perylene-d12	15.30	264	310219	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	26998	1.77	ng	0.00
7) Phenol-d6	6.35	99	35122	1.93	ng	0.00
23) Nitrobenzene-d5	7.28	82	21232	1.41	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	6448	2.01	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	39483	1.68	ng	-0.01
78) Terphenyl-d14	12.83	244	31922	1.94	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.03	128	1741527	39.492	ng	99
37) 2-Methylnaphthalene	8.72	142	174124	5.998	ng	96
48) Acenaphthylene	9.62	152	174602	4.377	ng	99
51) Acenaphthene	9.79	154	119646	4.941	ng	98
54) Dibenzofuran	9.96	168	224975	6.770	ng	98
57) Fluorene	10.30	166	277961	12.100	ng	100
70) Phenanthrene	11.27	178	1100100	30.821	ng	99
71) Anthracene	11.32	178	342221	9.454	ng	99
72) Carbazole	11.47	167	89048	2.503	ng	98
74) Fluoranthene	12.46	202	903924	25.740	ng	99
77) Pyrene	12.69	202	838202	27.693	ng	99
80) Benzo(a)anthracene	13.87	228	322229m	14.749	ng	
82) Chrysene	13.90	228	238583	10.473	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	153959	9.286	ng	99
87) Benzo(b)fluoranthene	14.89	252	284356m	14.058	ng	
88) Benzo(k)fluoranthene	14.92	252	95300m	4.884	ng	
89) Benzo(a)pyrene	15.24	252	235065	12.914	ng	# 95
90) Dibenzo(a,h)anthracene	16.68	278	42313	2.913	ng	# 86
91) Benzo(a,h,i)perylene	17.08	276	150071	10.256	ng	# 92

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

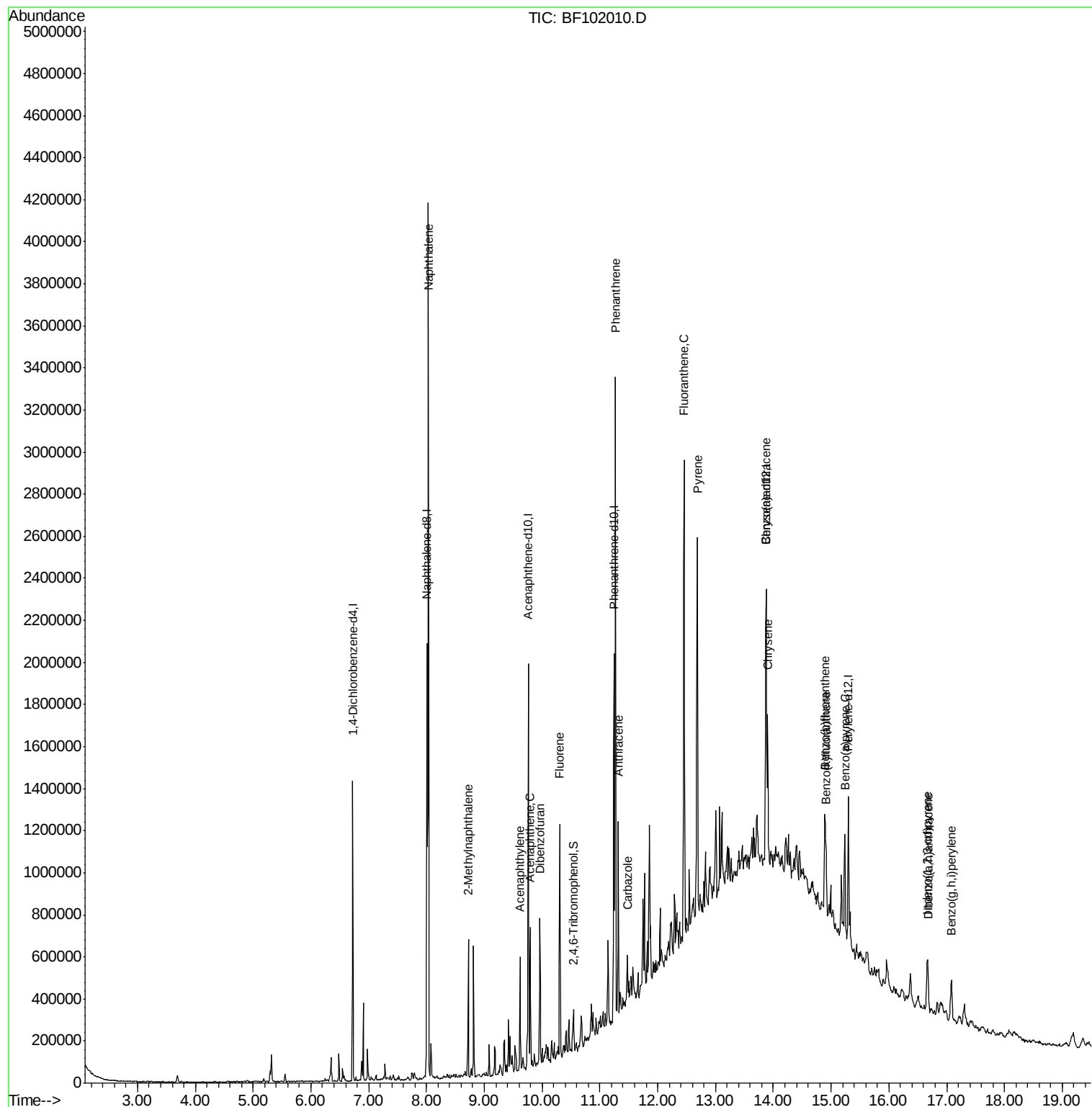
Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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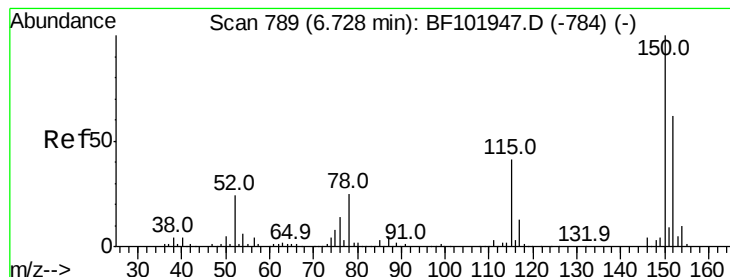
Instrument :
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ClientSampleId :
WC-52-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

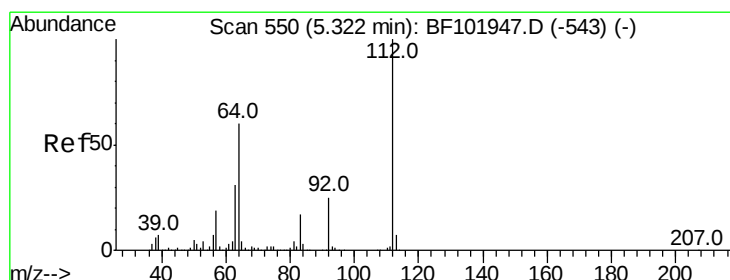
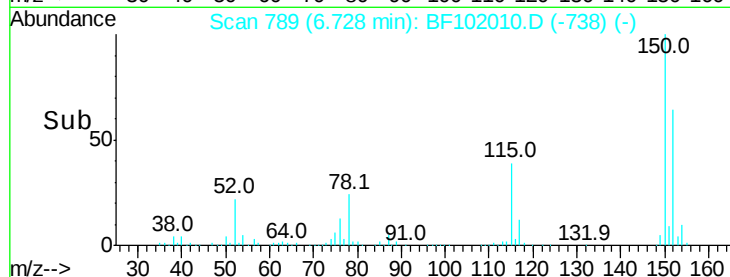
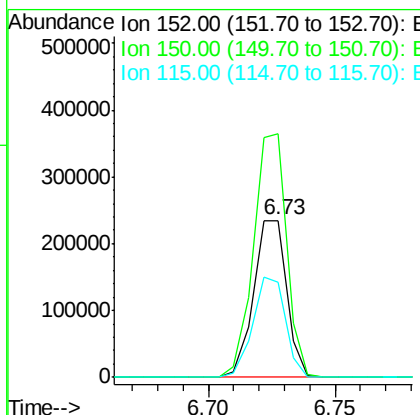
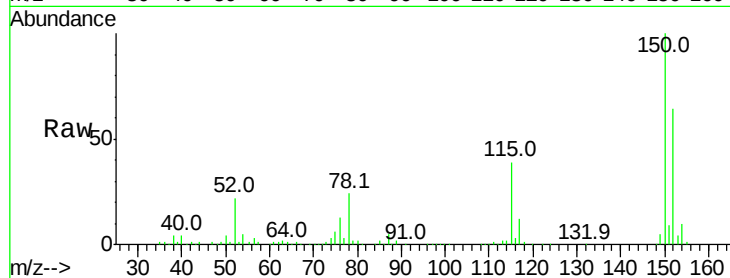
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	61.1	50.1	75.1

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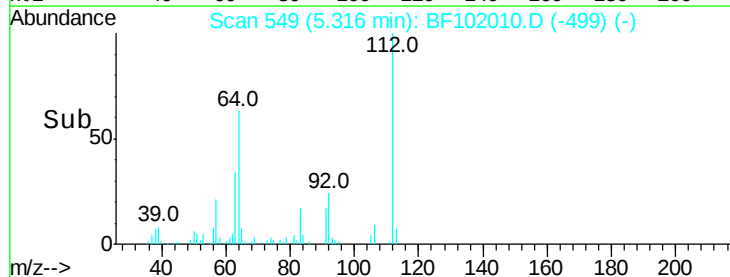
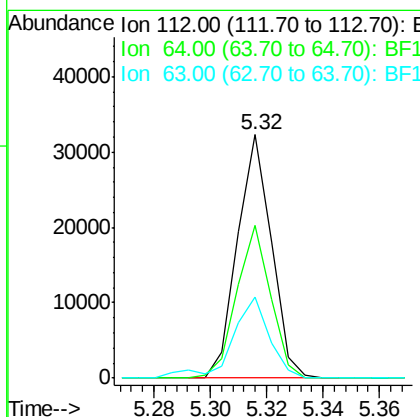
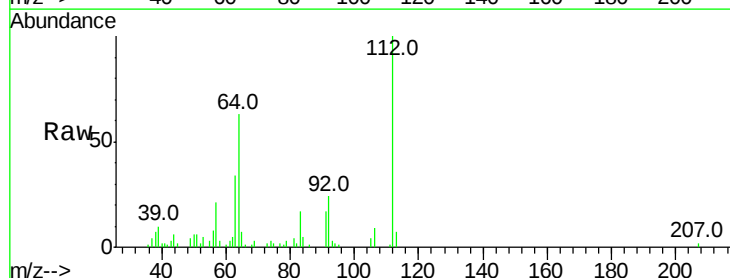
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#5

2-Fluorophenol
Concen: 1.770 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.7	47.9	71.9
63	33.5	23.7	35.5





#7

Phenol-d6

Concen: 1.930 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Instrument :

BNA_F

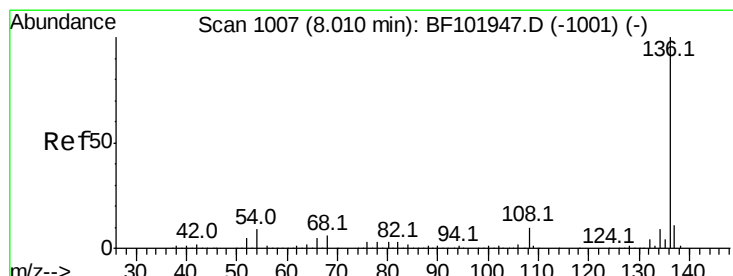
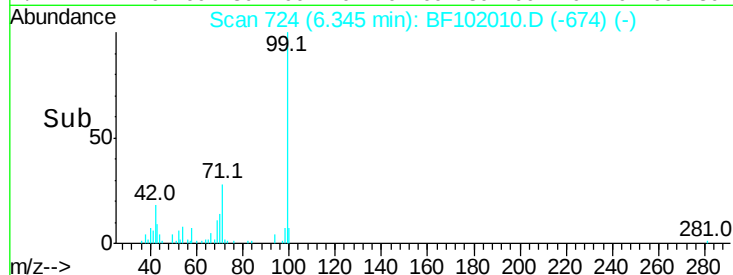
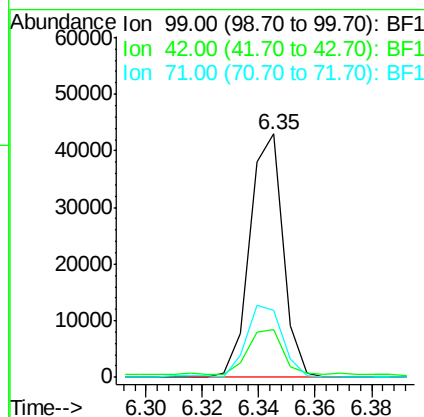
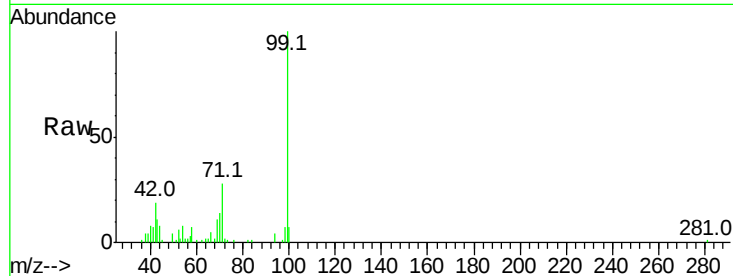
ClientSampleId :

WC-52-01

Tot Ion:	99	Resp:	35122
Ion Ratio	Lower	Upper	
99	100		
42	19.5	14.5	21.7
71	27.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

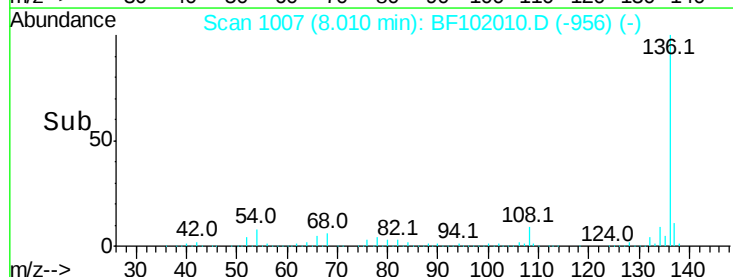
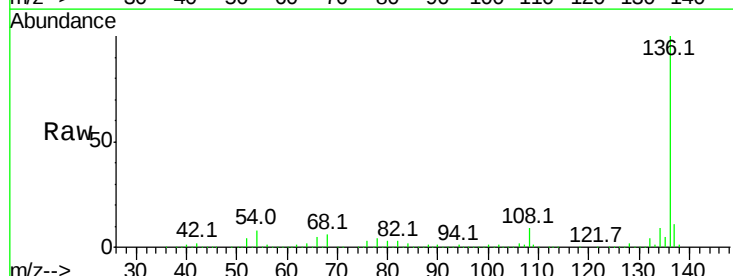
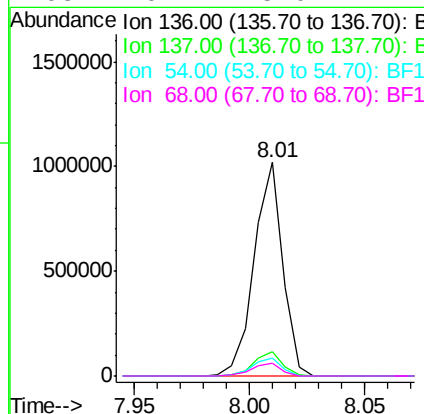
RT: 8.01 min Scan# 1007

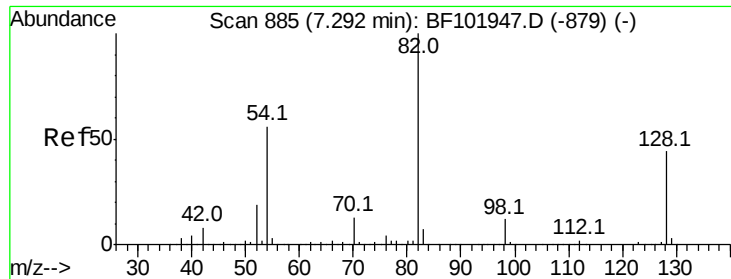
Delta R.T. -0.00 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Tgt Ion:	136	Resp:	882534
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.2	6.6	9.8
68	6.1	5.0	7.4





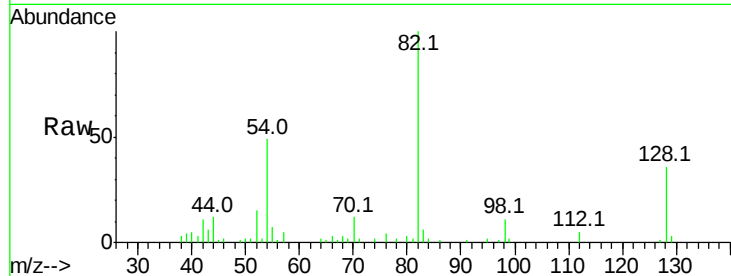
#23
Nitrobenzene-d5
Concen: 1.414 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampled :
WC-52-01

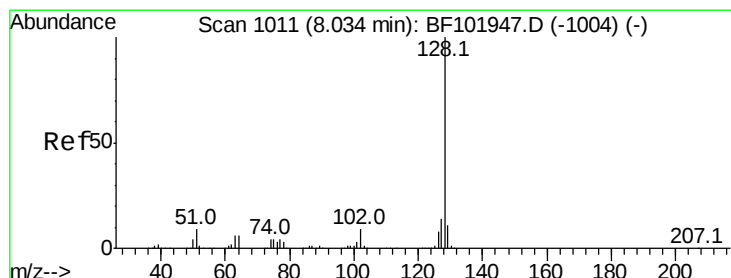
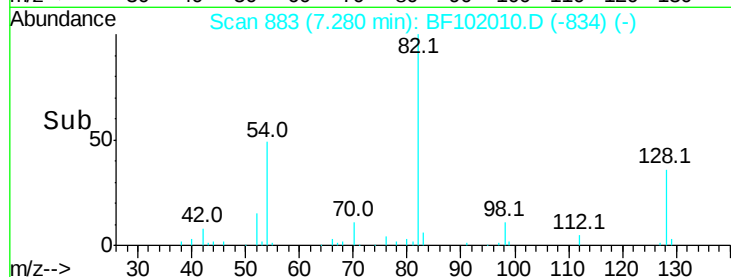
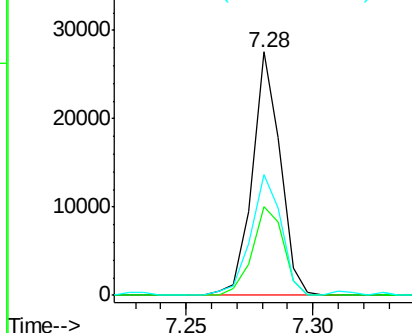
Tot Ion	Ratio	Lower	Upper
82	100		
128	36.3	36.1	54.1
54	49.4	41.4	62.2

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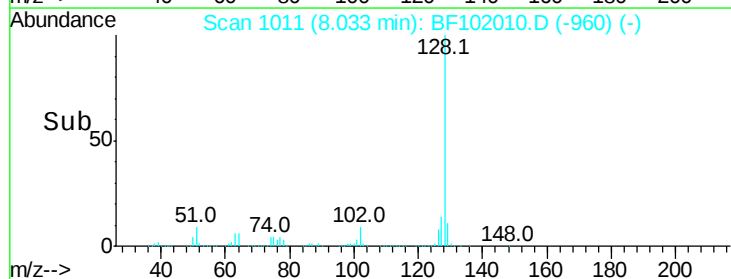
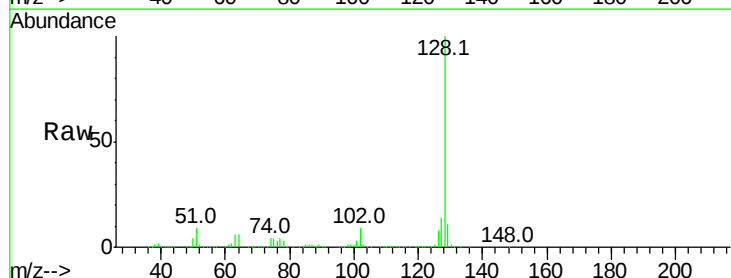
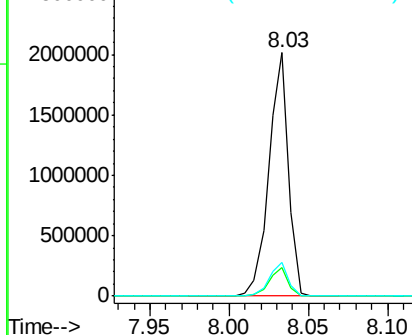
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

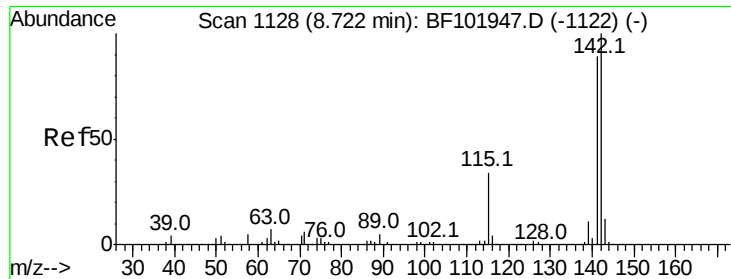


#31
Naphthalene
Concen: 39.492 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.7	10.9	16.3

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





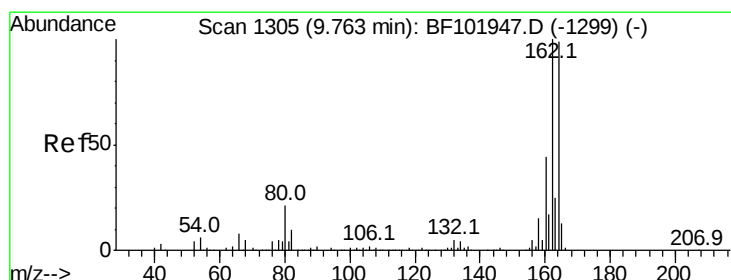
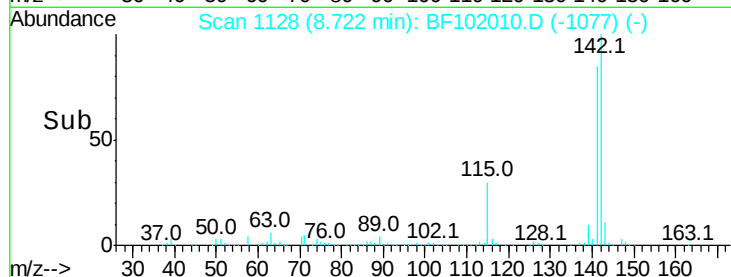
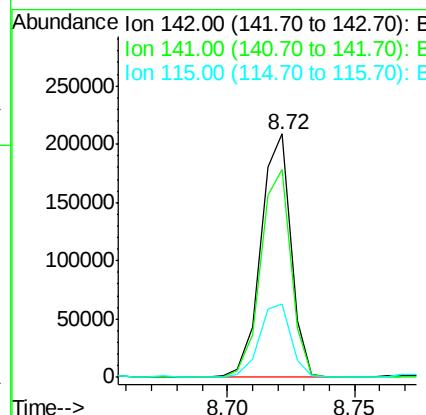
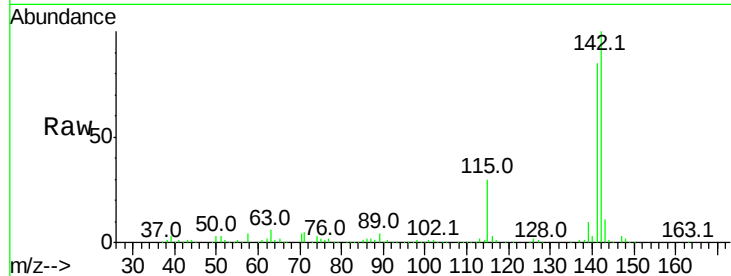
#37
 2-Methylnaphthalene
 Concen: 5.998 ng
 RT: 8.72 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: BF102010.D
 Acq: 11 Jan 2018 10:56

Instrument :
 BNA_F
 ClientSampled :
 WC-52-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.2	70.8	106.2
115	30.2	26.1	39.1

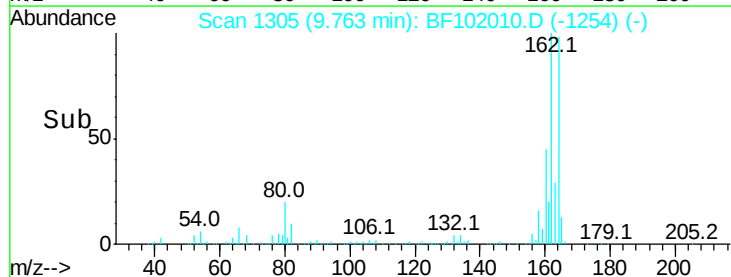
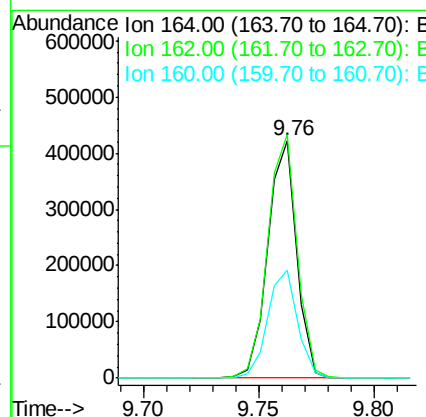
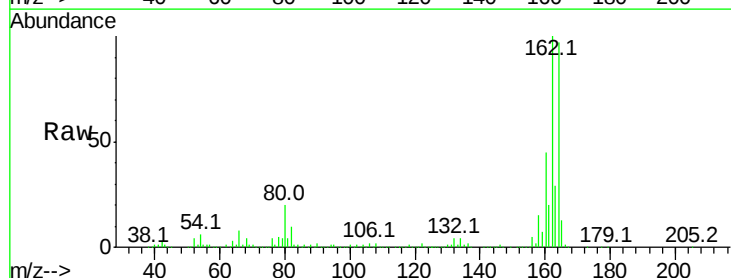
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BF102010.D
 Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	86.1	129.1
160	45.7	38.3	57.5





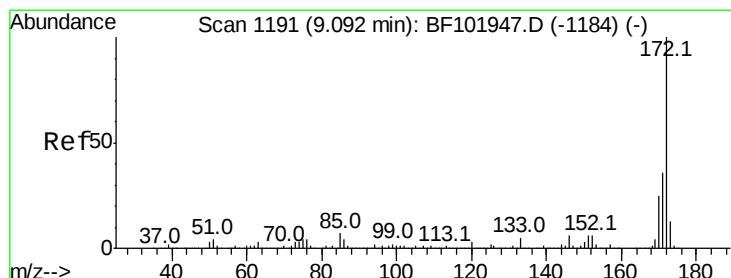
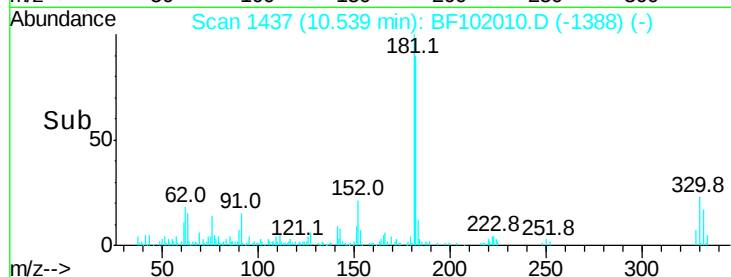
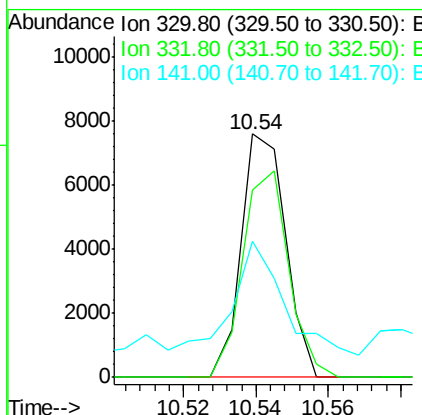
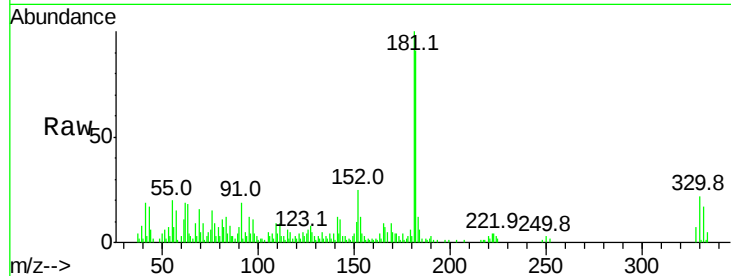
#41
 2,4,6-Tribromophenol
 Concen: 2.015 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102010.D
 Acq: 11 Jan 2018 10:56

Instrument :
 BNA_F
 ClientSampled :
 WC-52-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	87.9	77.0	115.6
141	53.8	29.9	44.9

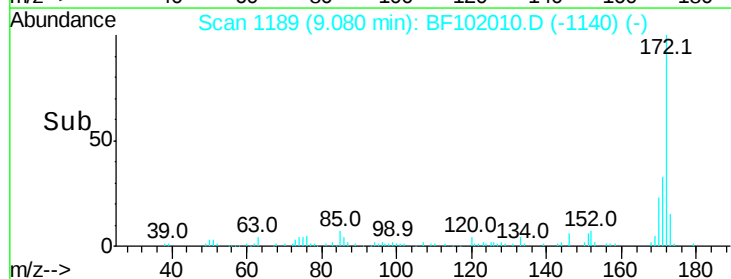
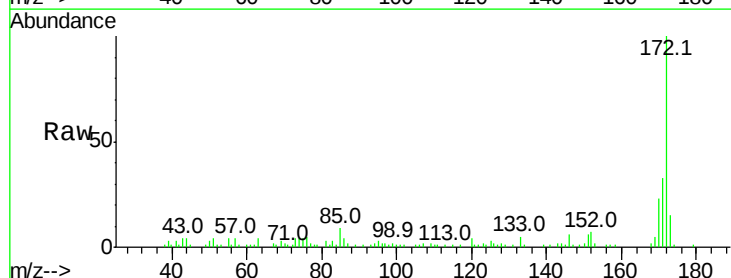
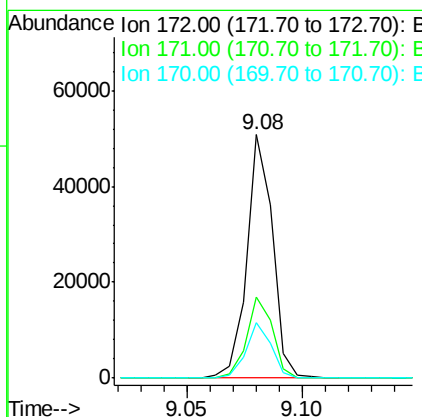
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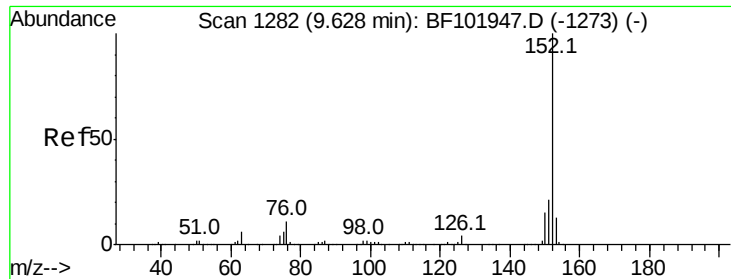
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#44
 2-Fluorobiphenyl
 Concen: 1.682 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF102010.D
 Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.3	29.7	44.5
170	23.0	19.6	29.4





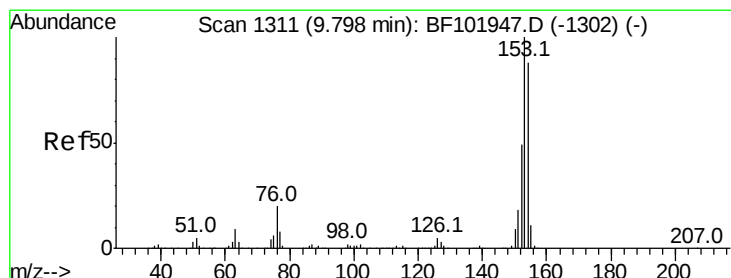
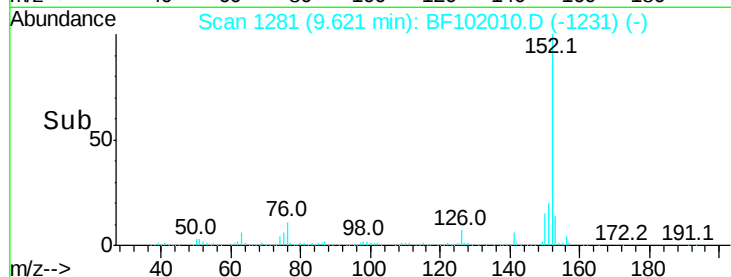
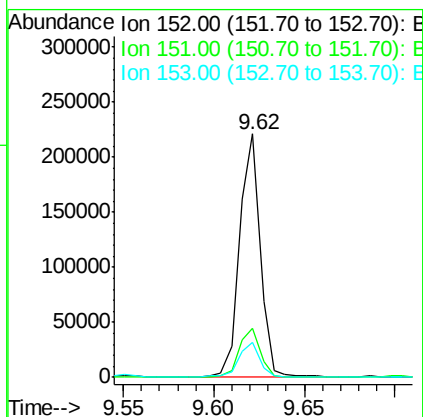
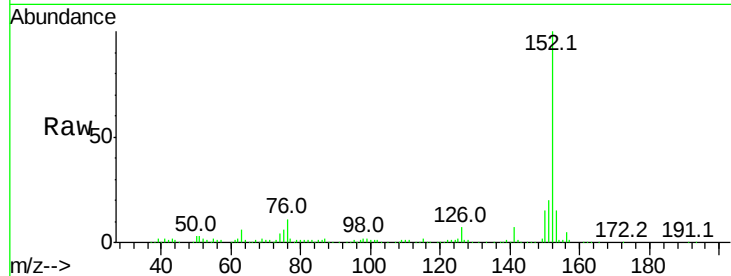
#48
Acenaphthylene
Concen: 4.377 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	14.5	10.7	16.1

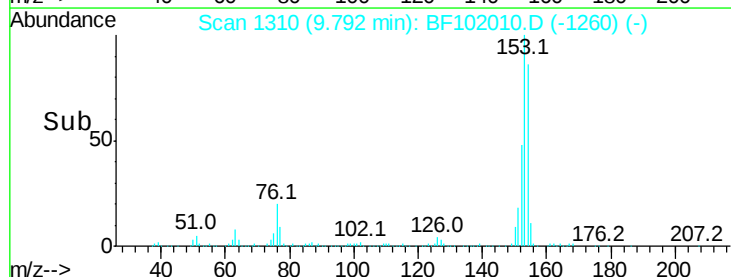
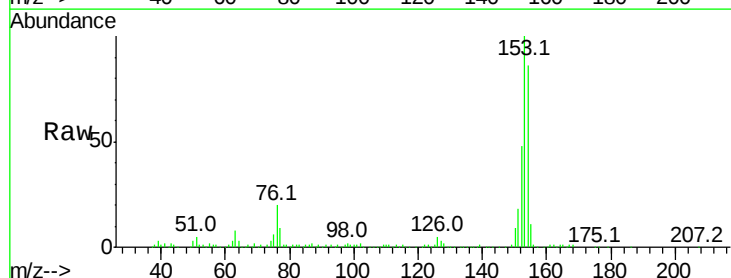
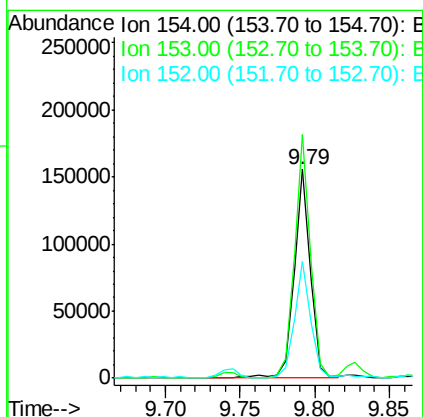
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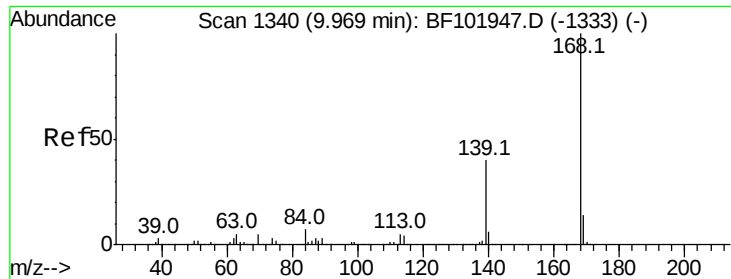
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#51
Acenaphthene
Concen: 4.941 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.6	91.2	136.8
152	55.8	43.8	65.8





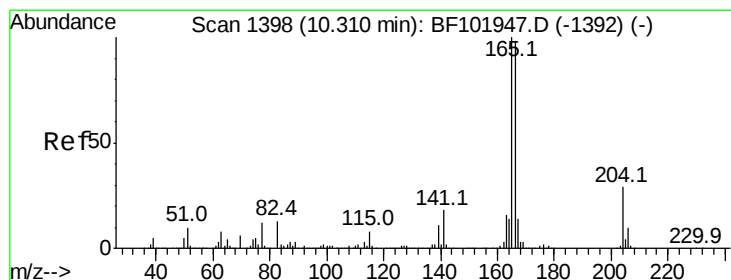
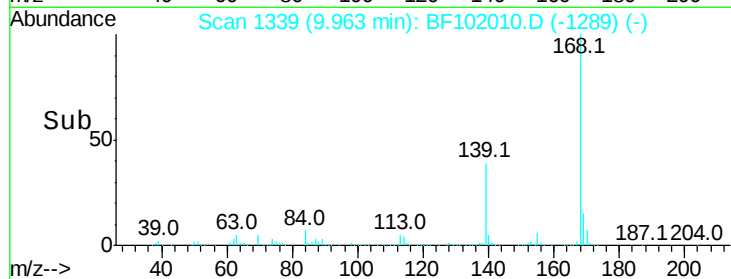
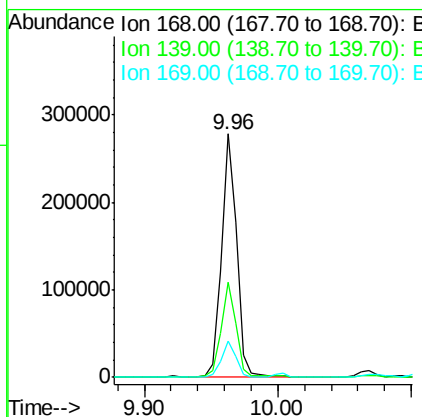
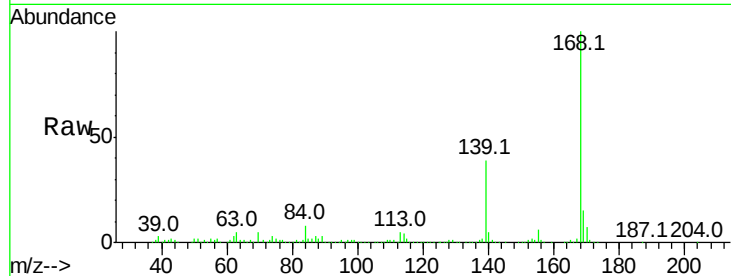
#54
Dibenzofuran
Concen: 6.770 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	38.9	30.1	45.1	
169	14.7	10.9	16.3	

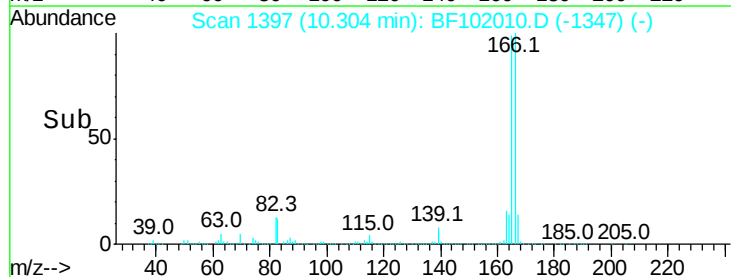
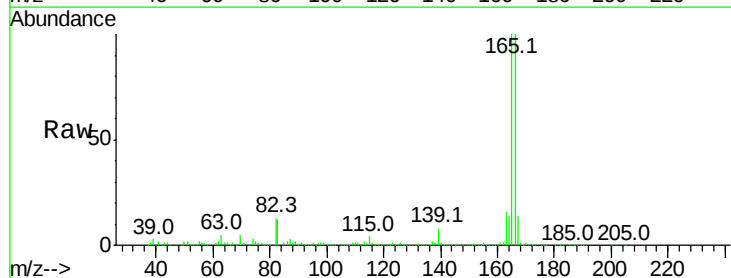
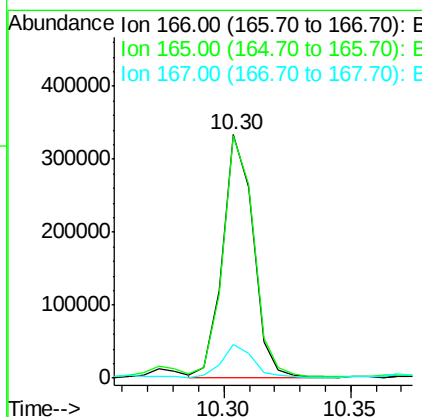
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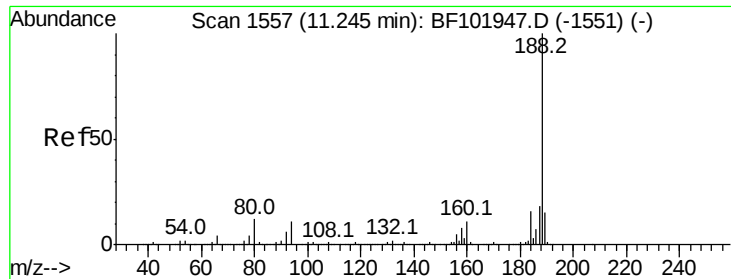
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#57
Fluorene
Concen: 12.100 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	99.6	79.8	119.8	
167	14.0	10.6	16.0	





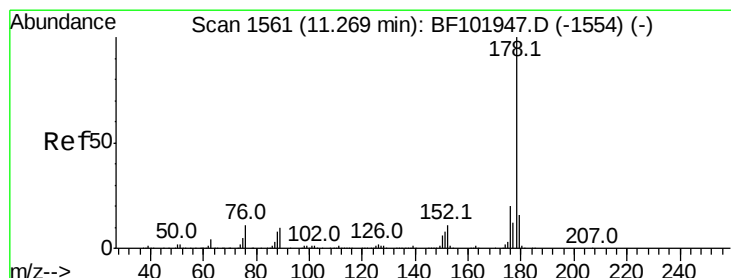
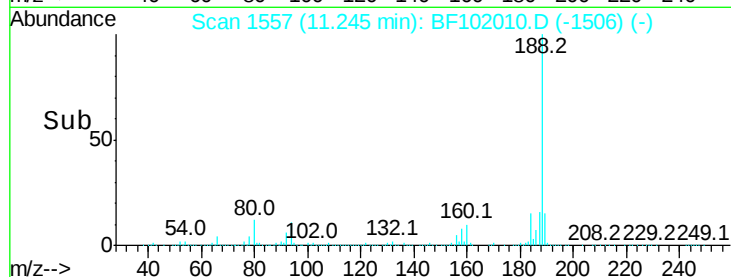
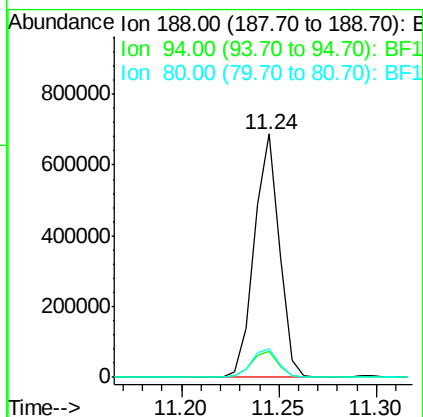
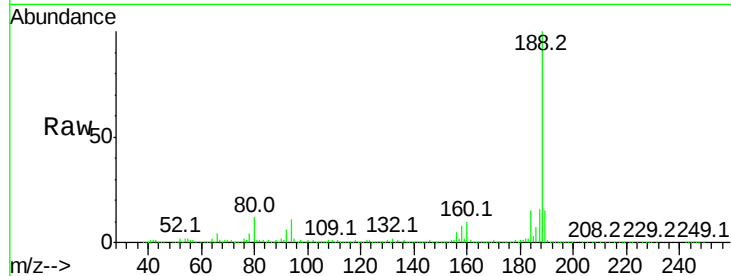
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1557
Delta R.T. -0.00 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion	Ratio	Resp	Lower	Upper
188	100	611045		
94	10.9		8.5	12.7
80	11.7		9.2	13.8

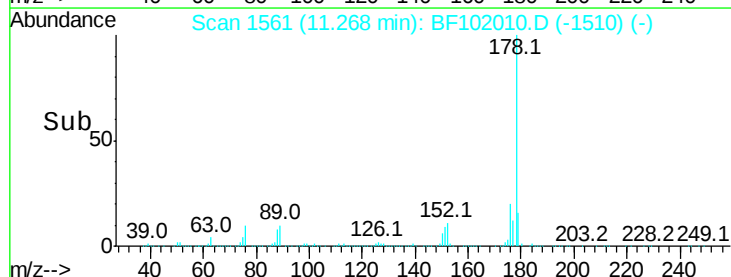
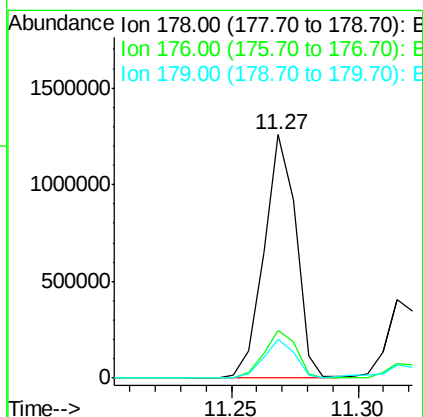
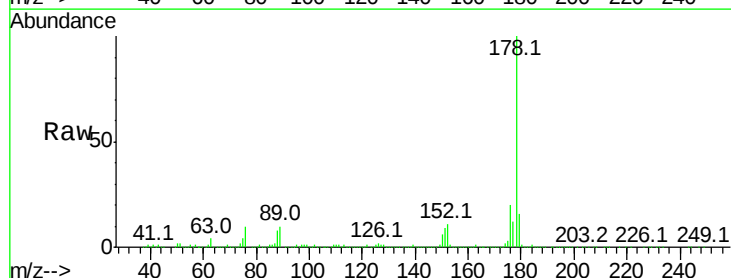
Manual Integrations
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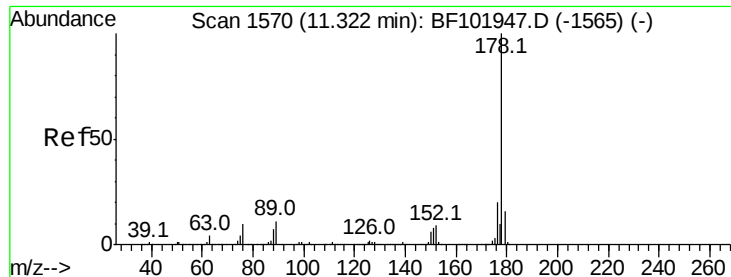
Sohil
1/12/2018 10:36:55 AM



#70
Phenanthrene
Concen: 30.821 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.00 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1100100		
176	19.6		15.8	23.8
179	15.9		13.0	19.6





#71

Anthracene

Concen: 9.454 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Instrument :

BNA_F

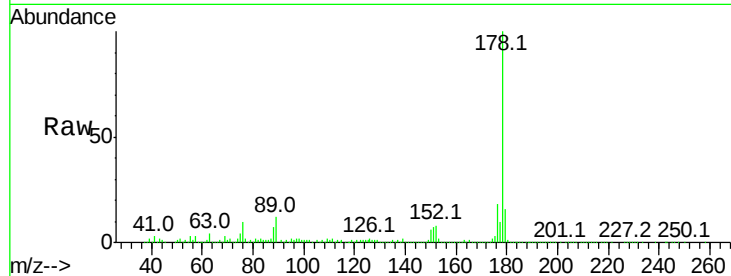
ClientSampleId :

WC-52-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	16.2	12.6	19.0

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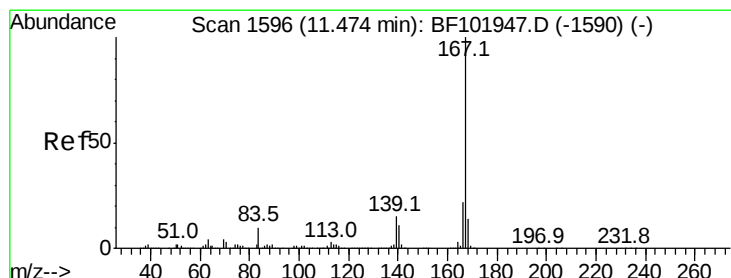
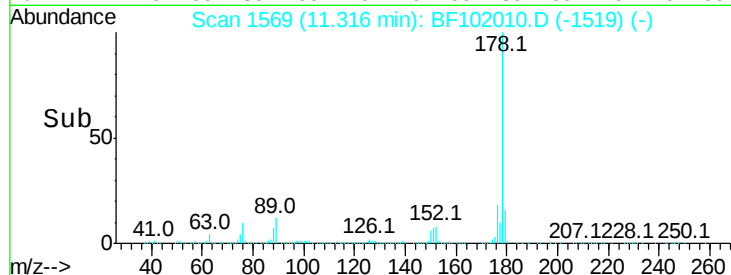
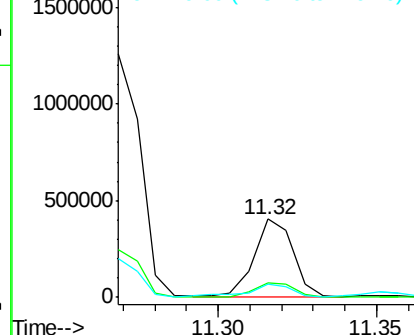
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.503 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF102010.D

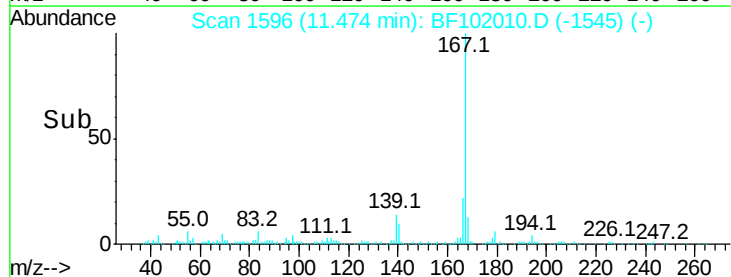
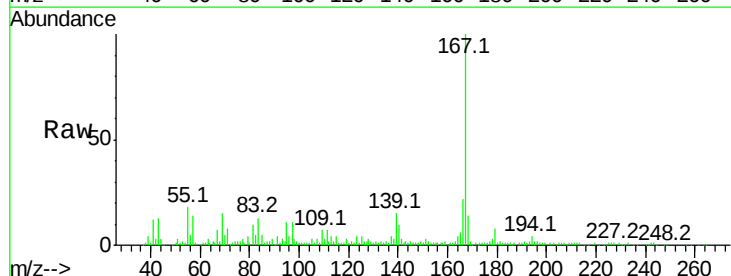
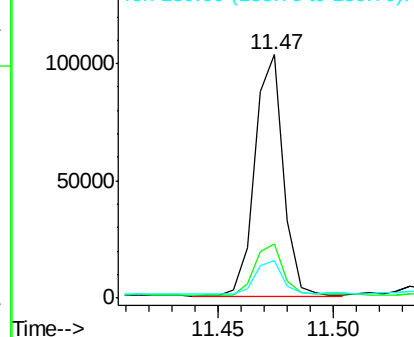
Acq: 11 Jan 2018 10:56

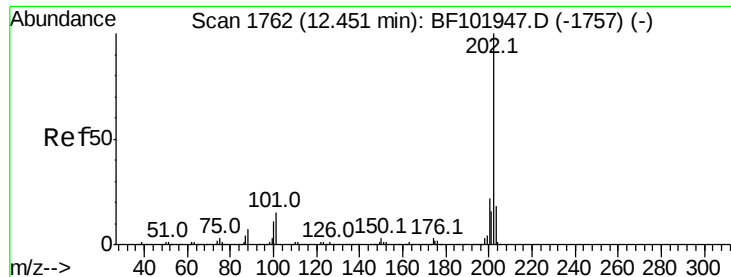
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.6	26.4
139	15.3	10.9	16.3

Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 25.740 ng

RT: 12.46 min Scan# 1763

Delta R.T. 0.01 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Instrument :

BNA_F

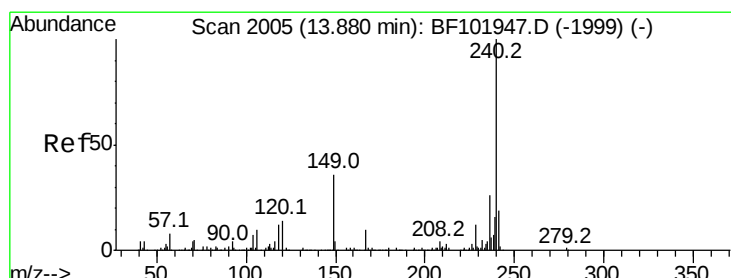
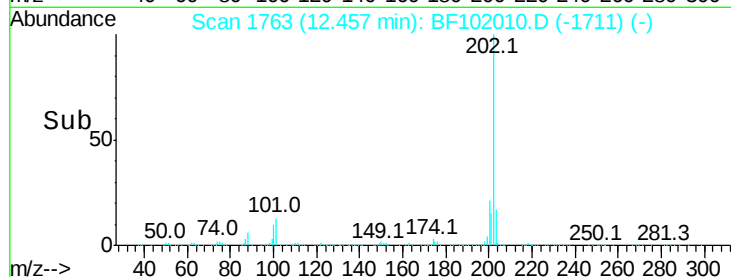
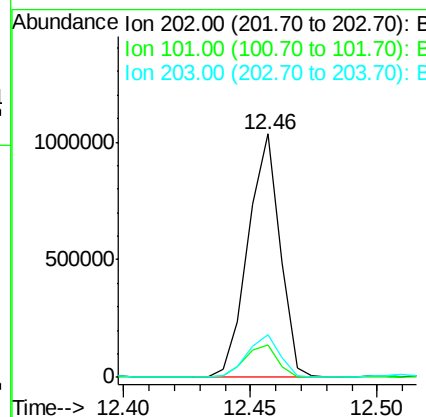
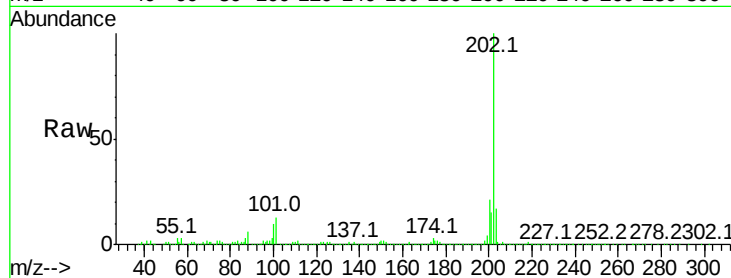
ClientSampled :

WC-52-01

Tot Ion:	202	Resp:	903924
Ion Ratio		Lower	Upper
202	100		
101	13.5	0.0	34.1
203	17.5	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

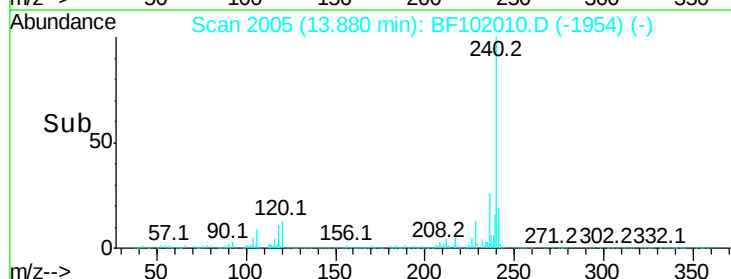
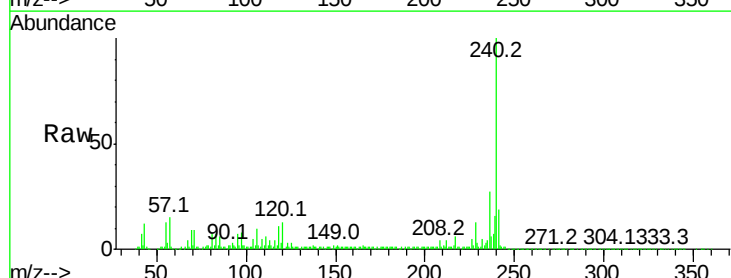
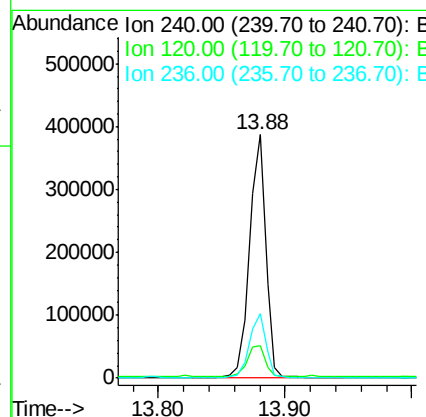
RT: 13.88 min Scan# 2005

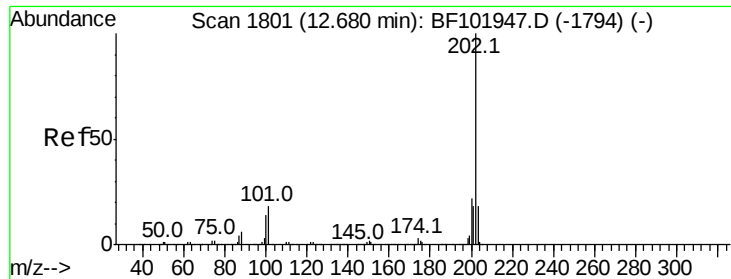
Delta R.T. -0.00 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Tgt Ion:	240	Resp:	342414
Ion Ratio		Lower	Upper
240	100		
120	13.5	9.5	14.3
236	26.7	20.7	31.1





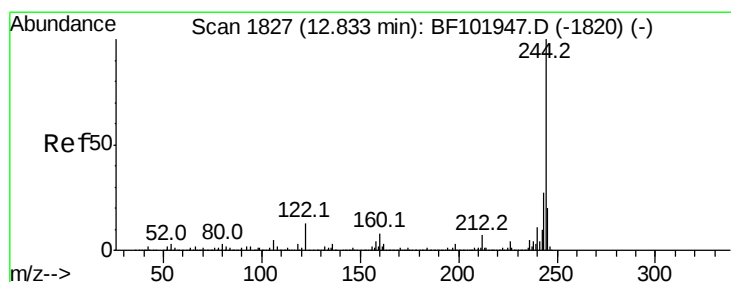
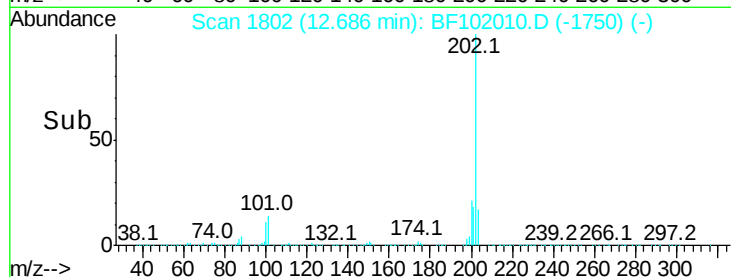
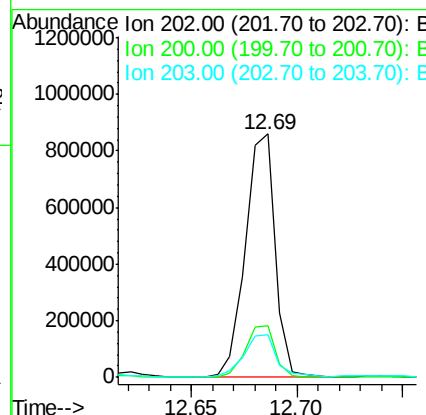
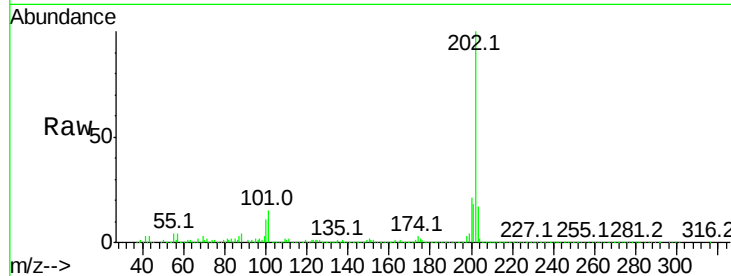
#77
Pvrene
Concen: 27.693 ng
RT: 12.69 min Scan# 1802
Delta R.T. 0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampled :
WC-52-01

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	17.4	14.3	21.5

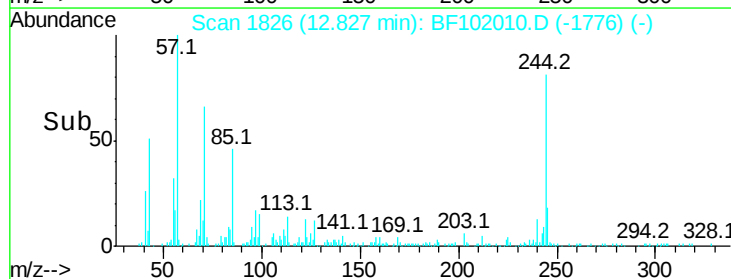
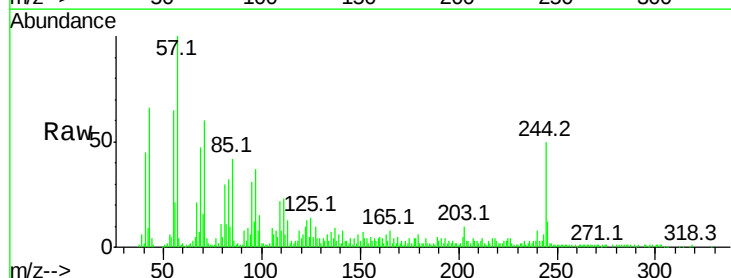
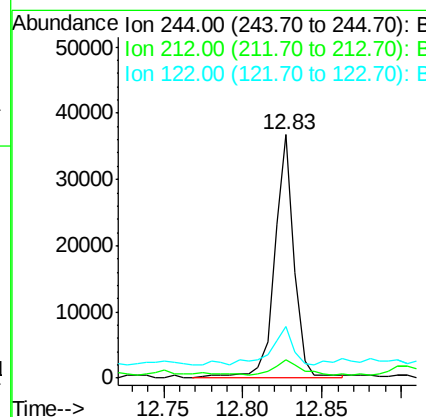
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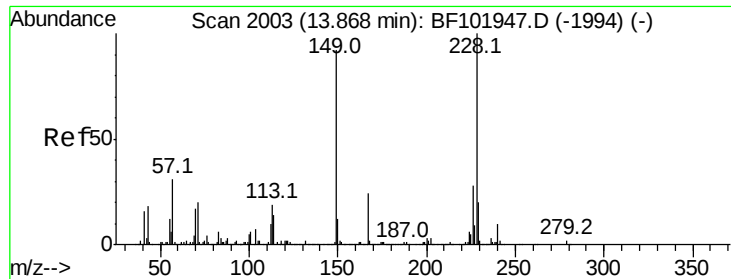
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#78
Terphenyl-d14
Concen: 1.936 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.8	5.4	8.0
122	21.1	11.0	16.4





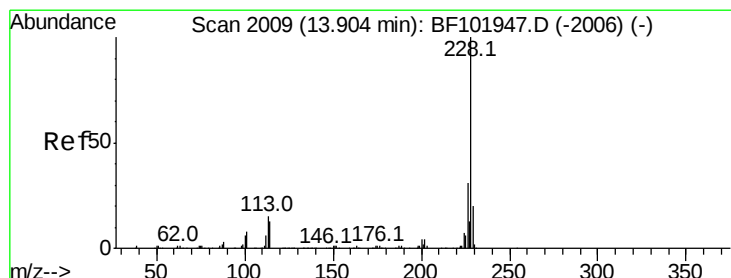
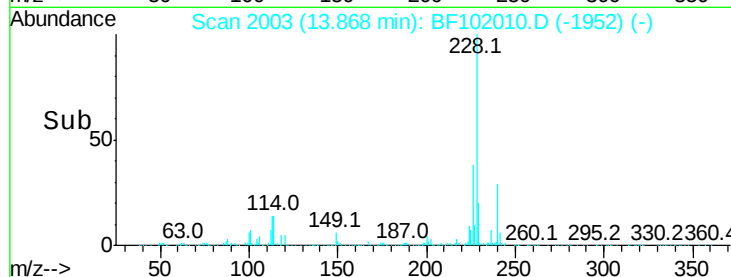
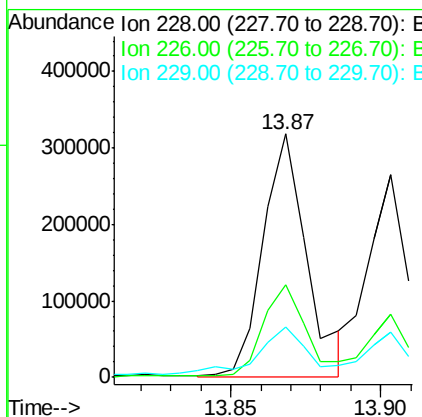
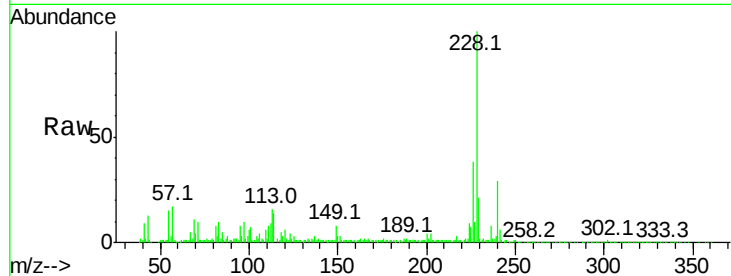
#80
Benzo(a)anthracene
Concen: 14.749 ng m
RT: 13.87 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	38.1	22.6	33.8#
229	20.9	15.8	23.6

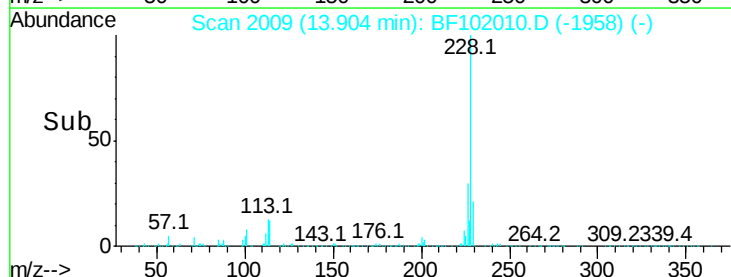
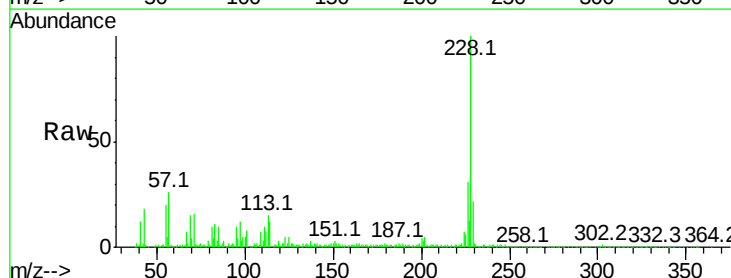
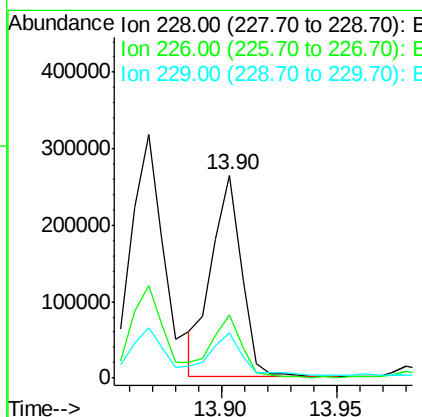
Manual Integrations
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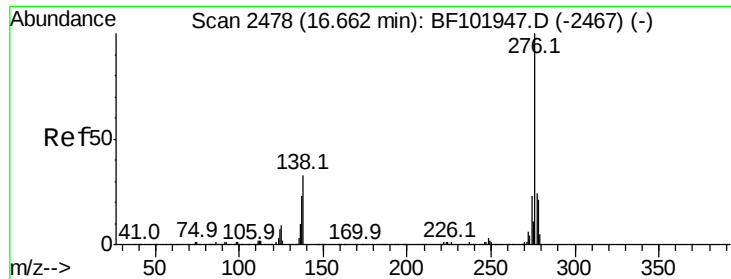
Sohil
1/12/2018 10:36:55 AM



#82
Chrysene
Concen: 10.473 ng
RT: 13.90 min Scan# 2009
Delta R.T. -0.00 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.6
229	22.1	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 9.286 ng

RT: 16.67 min Scan# 2479

Delta R.T. 0.01 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Instrument :

BNA_F

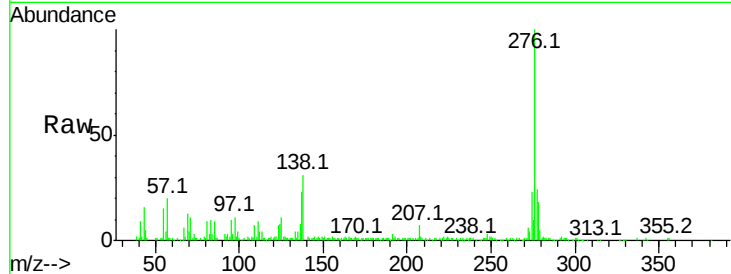
ClientSampled :

WC-52-01

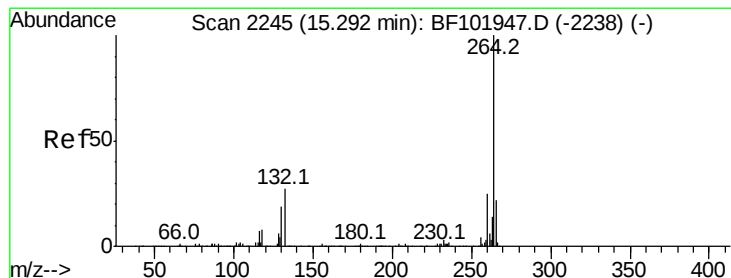
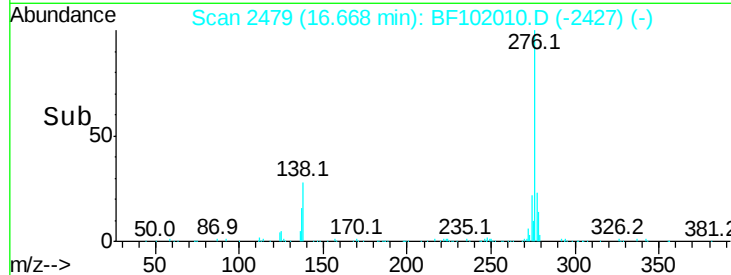
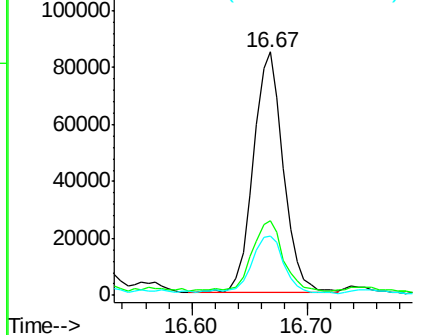
Tot Ion:	276	Resp:	153959
Ion Ratio	Lower	Upper	
276	100		
138	30.2	25.0	37.6
277	25.0	20.1	30.1

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



#86

Perylene-d12

Concen: 20.000 ng

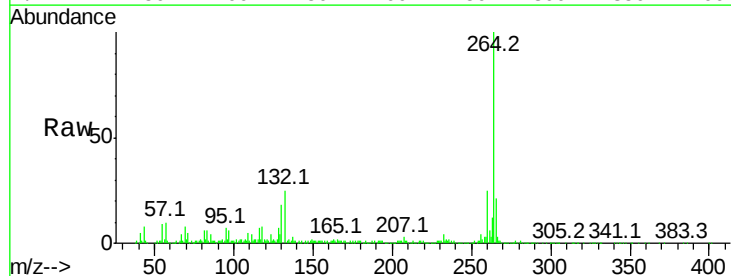
RT: 15.30 min Scan# 2246

Delta R.T. 0.01 min

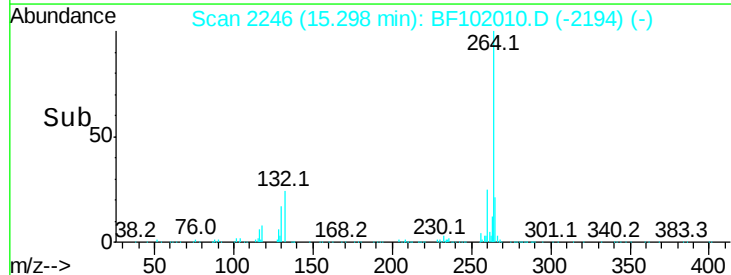
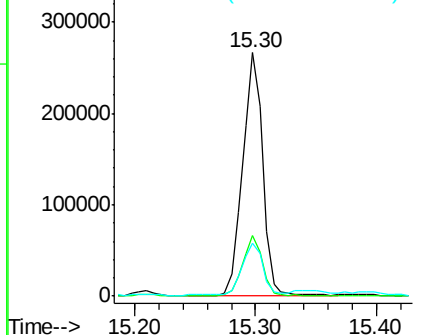
Lab File: BF102010.D

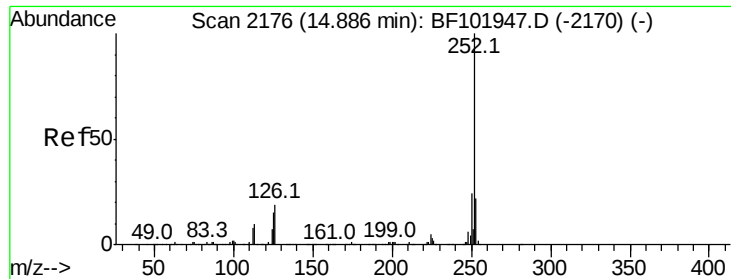
Acq: 11 Jan 2018 10:56

Tgt Ion:	264	Resp:	310219
Ion Ratio	Lower	Upper	
264	100		
260	25.1	19.2	28.8
265	21.5	17.5	26.3



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: 14.058 ng m

RT: 14.89 min Scan# 2177

Delta R.T. 0.01 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Instrument :

BNA_F

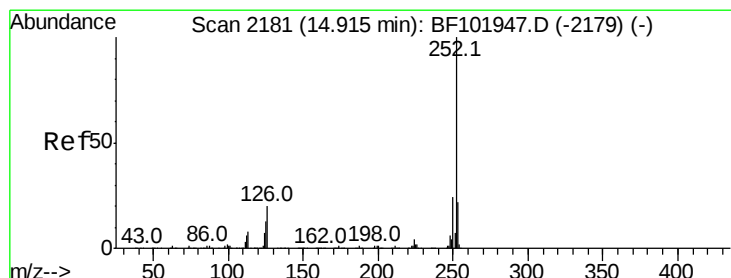
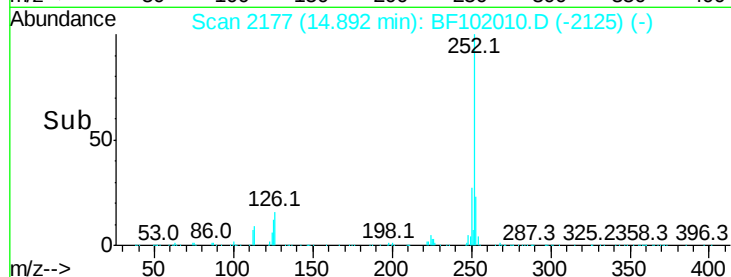
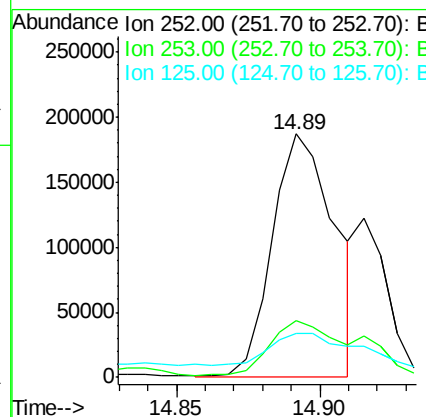
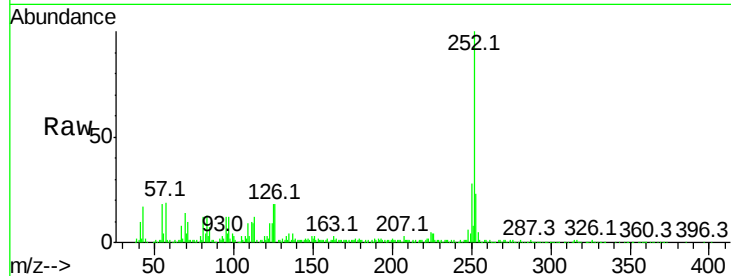
ClientSampled :

WC-52-01

Tot Ion:	252	Resp:	284356
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.0	25.6
125	18.2	9.0	13.6#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 4.884 ng m

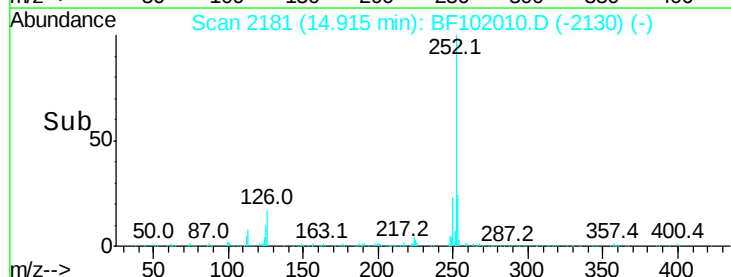
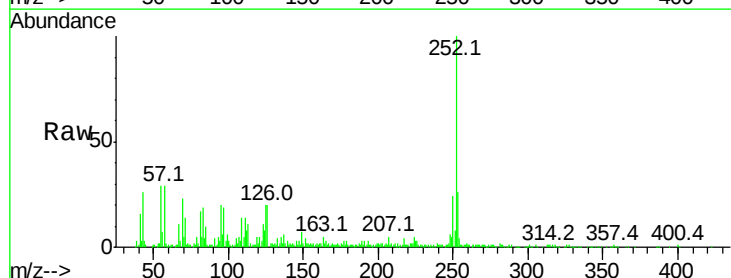
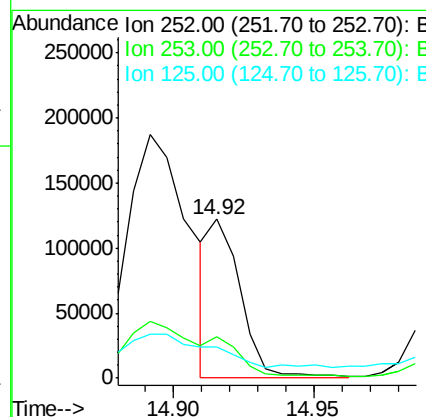
RT: 14.92 min Scan# 2181

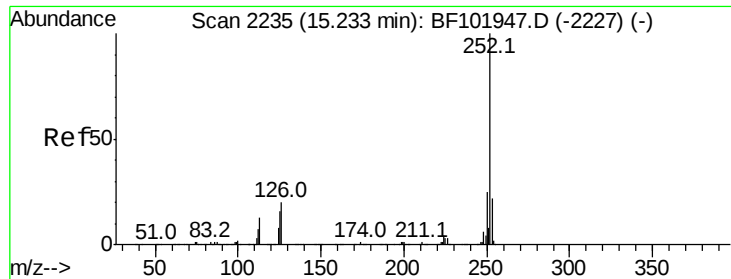
Delta R.T. -0.00 min

Lab File: BF102010.D

Acq: 11 Jan 2018 10:56

Tgt Ion:	252	Resp:	95300
Ion Ratio	Lower	Upper	
252	100		
253	25.8	17.9	26.9
125	19.9	10.2	15.2#





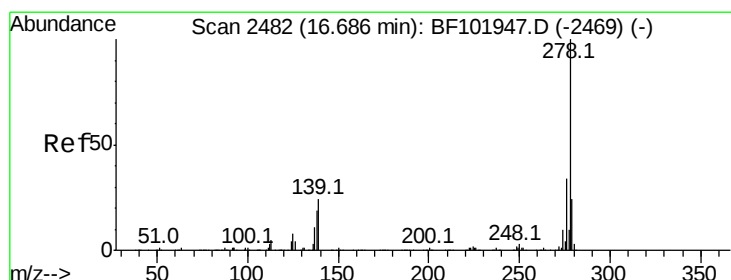
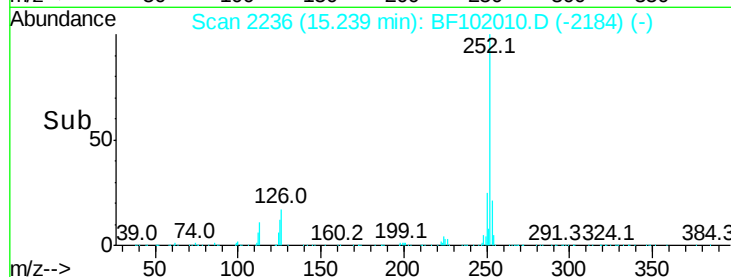
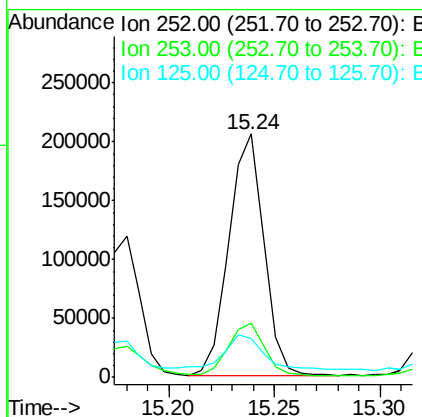
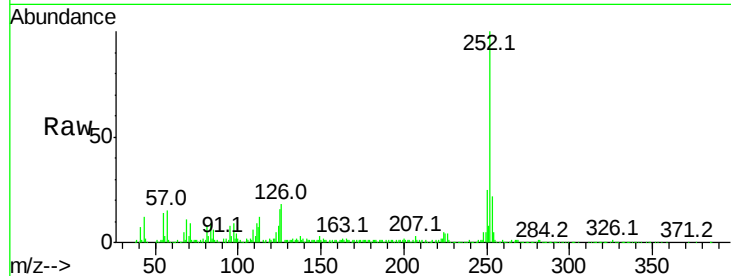
#89
Benzo(a)pyrene
Concen: 12.914 ng
RT: 15.24 min Scan# 2236
Delta R.T. 0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.4	17.1	25.7
125	15.9	9.8	14.6

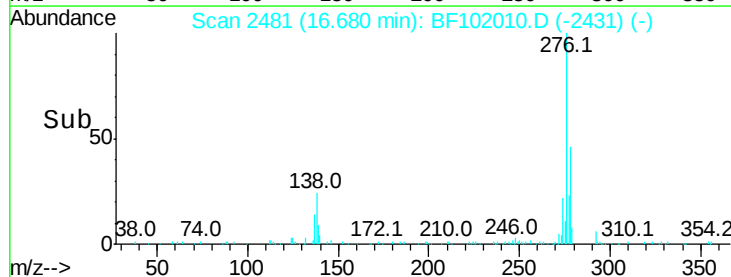
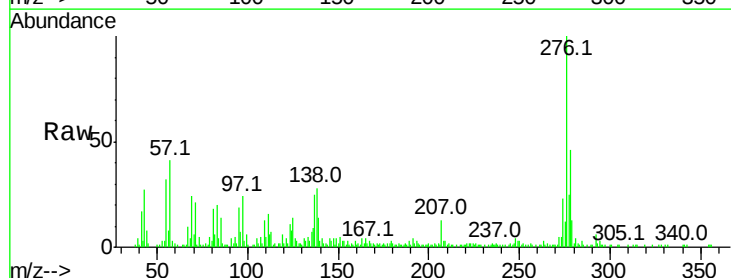
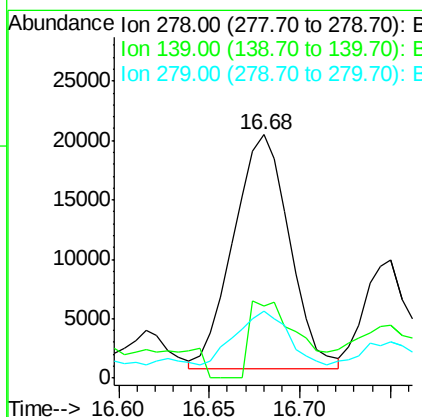
Manual Integrations
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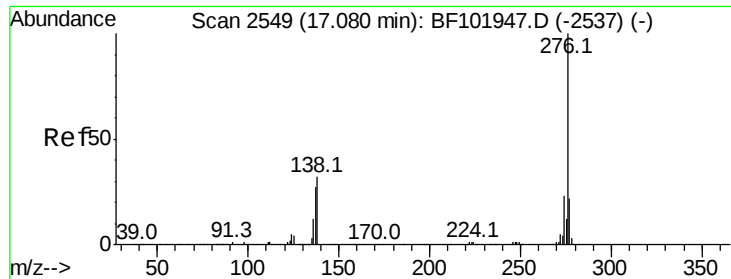
Sohil
1/12/2018 10:36:55 AM



#90
Dibenzo(a,h)anthracene
Concen: 2.913 ng
RT: 16.68 min Scan# 2481
Delta R.T. -0.01 min
Lab File: BF102010.D
Acq: 11 Jan 2018 10:56

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	29.6	15.9	23.9
279	27.3	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 10.256 ng
 RT: 17.08 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: BF102010.D
 Acq: 11 Jan 2018 10:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-52-01

Tot Ion:	276	Resp:	150071
Ion Ratio		Lower	Upper
276	100		
277	23.9	17.9	26.9
138	33.1	21.8	32.8#

Manual Integrations
 APPROVED

Sohil
 1/12/2018 10:36:55 AM

