

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
 Data File : BF106384.D
 Acq On : 13 Jun 2018 10:11
 Operator : JU/SJ
 Sample : J3322-04DL 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB02-3_E_5DL

Manual Integrations
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Quant Time: Jun 13 11:40:35 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 13 10:51:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	112800	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	390633	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	167523	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	347305	20.00	ng	0.00
75) Chrysene-d12	14.15	240	346864	20.00	ng	0.00
86) Perylene-d12	15.69	264	256875	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.64	112	13714	2.06	ng	0.01
7) Phenol-d6	6.65	99	16708	1.98	ng	0.02
23) Nitrobenzene-d5	7.52	82	9297	1.40	ng	-0.01
41) 2,4,6-Tribromophenol	10.81	330	2472	1.53	ng	0.00
44) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng	
78) Terphenyl-d14	13.08	244	26480	1.90	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.28	128	237133	13.429	ng	99
48) Acenaphthylene	9.88	152	221700	13.949	ng	98
51) Acenaphthene	10.05	154	51667	5.034	ng	98
54) Dibenzofuran	10.22	168	43995	3.183	ng	98
57) Fluorene	10.56	166	74315	6.786	ng	100
70) Phenanthrene	11.53	178	423222	24.882	ng	100
71) Anthracene	11.58	178	179673	10.544	ng	100
74) Fluoranthene	12.72	202	756700	41.717	ng	97
77) Pyrene	12.95	202	818902	37.710	ng	99
80) Benzo(a)anthracene	14.15	228	493322m	23.899	ng	
82) Chrysene	14.18	228	438959	23.292	ng	98
85) Indeno(1,2,3-cd)pyrene	17.26	276	220620	14.668	ng	# 89
87) Benzo(b)fluoranthene	15.24	252	560203m	36.077	ng	
88) Benzo(k)fluoranthene	15.27	252	152368m	9.908	ng	
89) Benzo(a)pyrene	15.63	252	401586	28.753	ng	95
90) Dibenzo(a,h)anthracene	17.27	278	56137	4.821	ng	93
91) Benzo(g,h,i)perylene	17.74	276	224431	19.833	ng	94

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

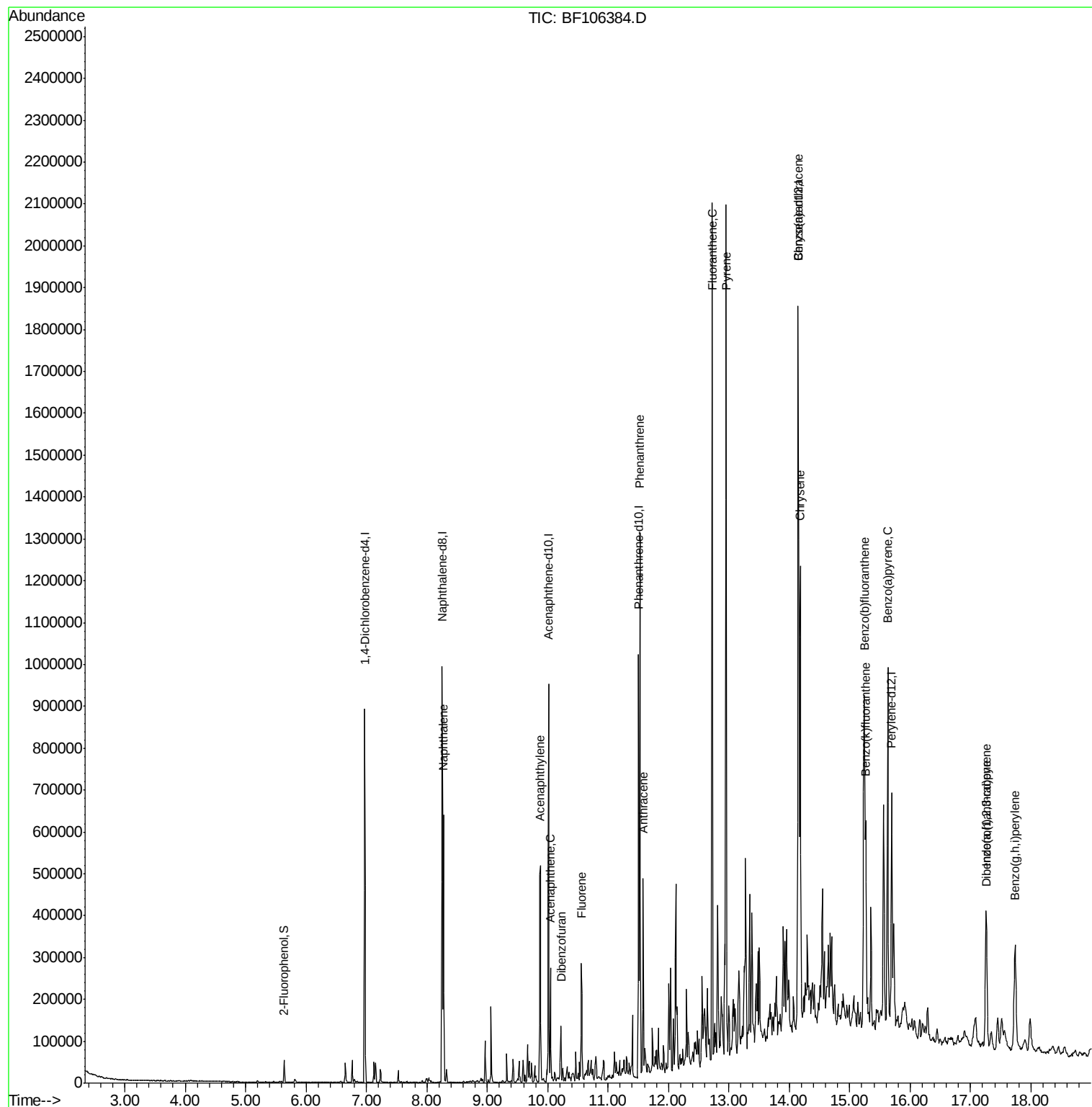
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
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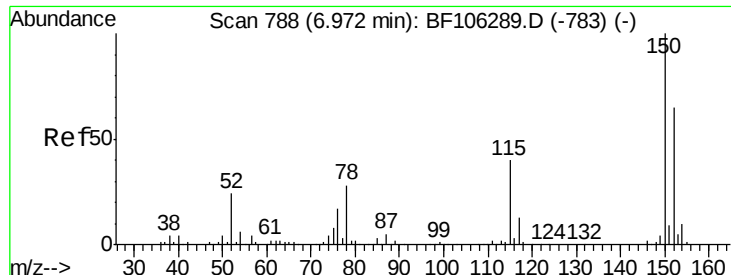
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#1

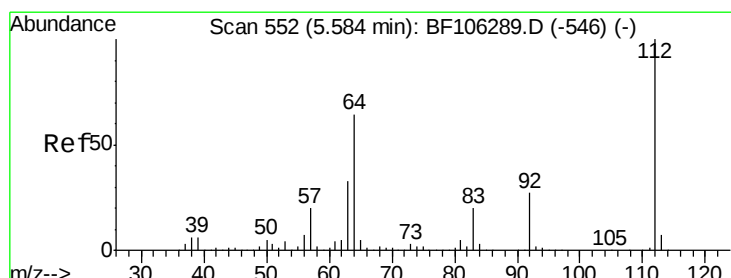
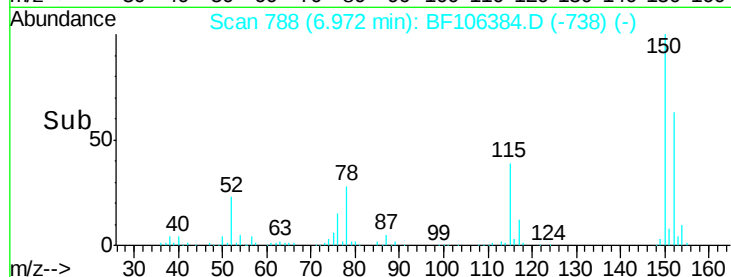
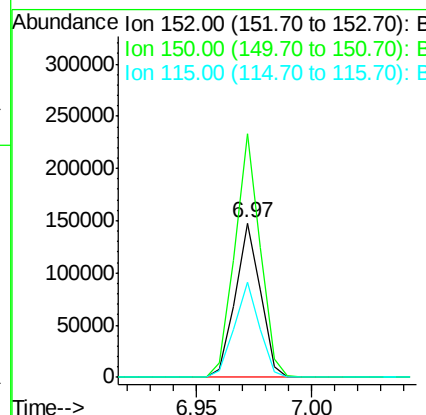
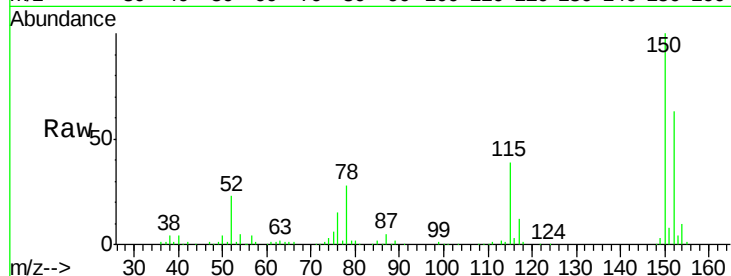
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	61.5	50.1	75.1

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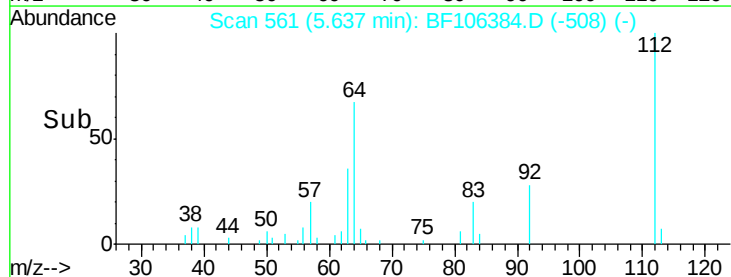
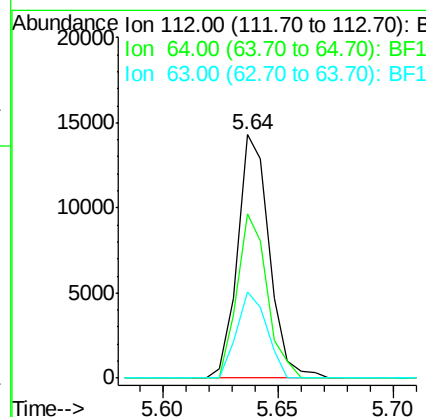
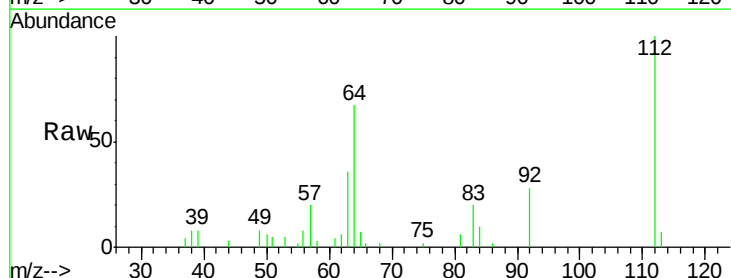
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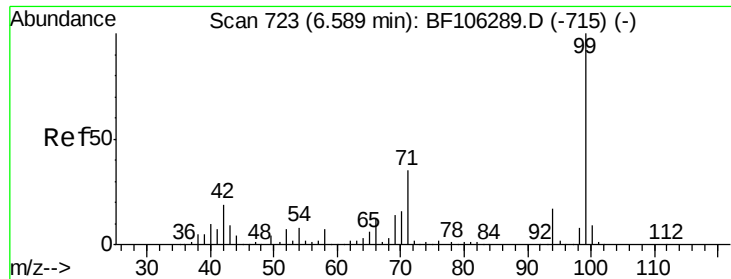


#5

2-Fluorophenol
Concen: 2.058 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.2	47.9	71.9
63	35.6	23.7	35.5





#7

Phenol-d6

Concen: 1.984 ng

RT: 6.65 min Scan# 733

Delta R.T. 0.02 min

Lab File: BF106384.D

Acq: 13 Jun 2018 10:11

Instrument :

BNA_F

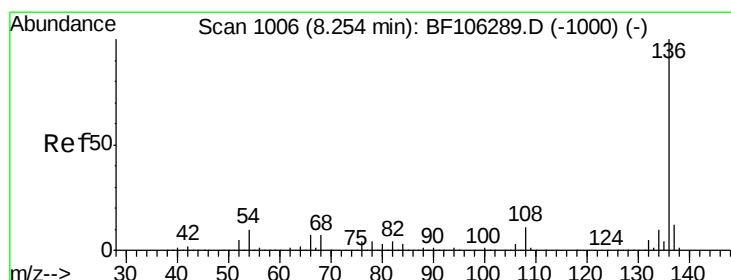
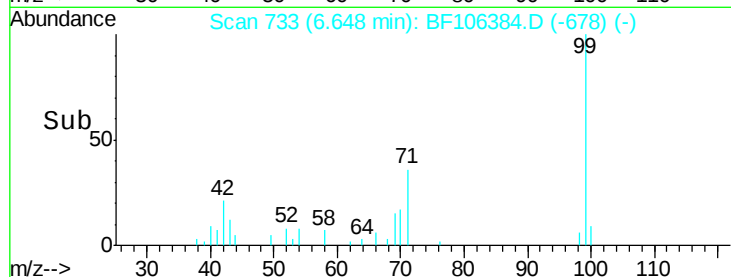
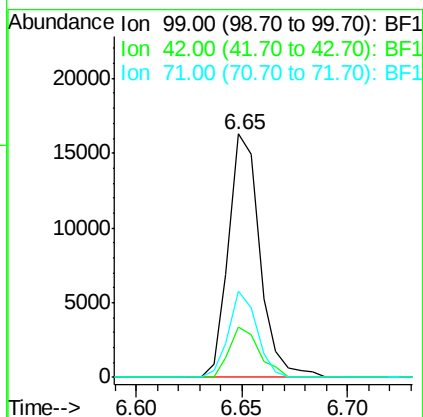
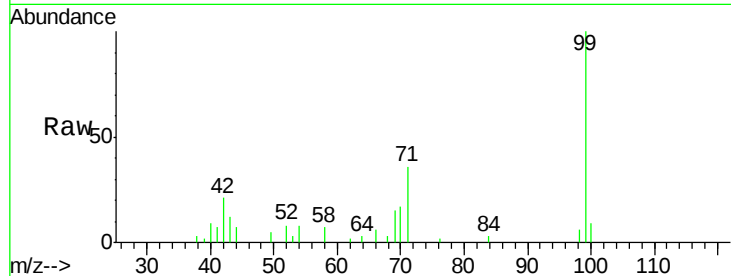
ClientSampleId :

SB02-3_E_5DL

Tot Ion:	99	Resp:	16708
Ion Ratio	Lower	Upper	
99	100		
42	20.8	14.5	21.7
71	35.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

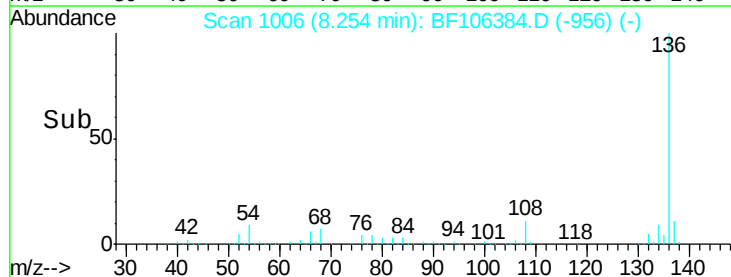
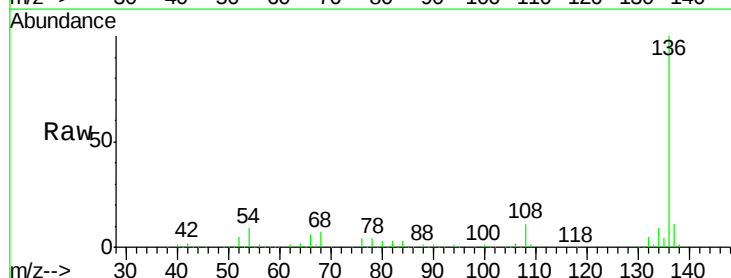
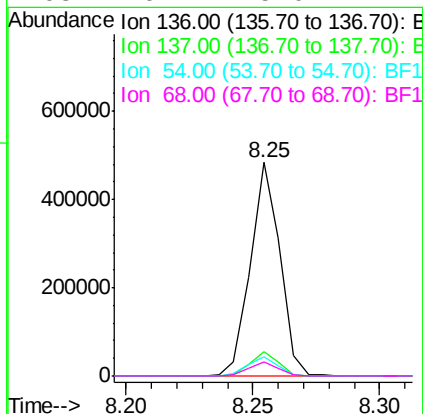
RT: 8.25 min Scan# 1006

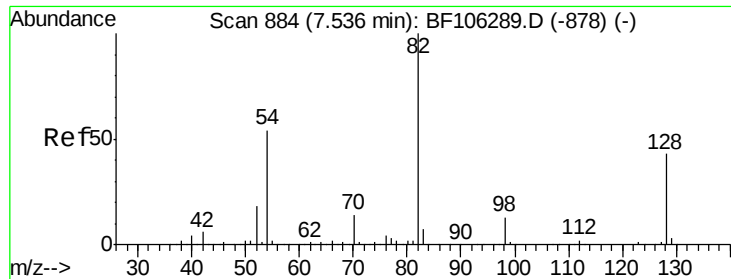
Delta R.T. -0.01 min

Lab File: BF106384.D

Acq: 13 Jun 2018 10:11

Tgt Ion:	136	Resp:	390633
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.9	6.6	9.8
68	6.7	5.0	7.4





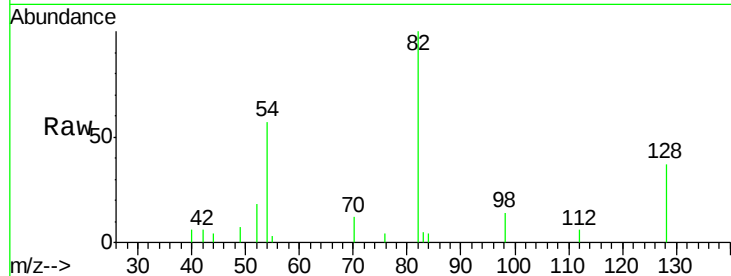
#23
Nitrobenzene-d5
Concen: 1.400 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

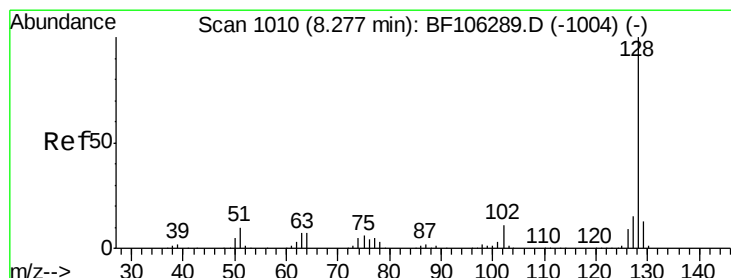
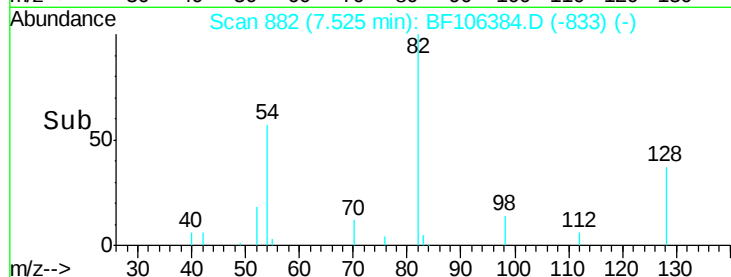
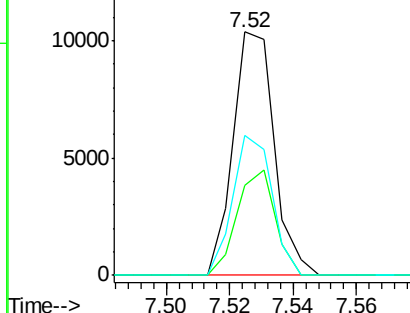
Tot Ion	Ratio	Lower	Upper
82	100		
128	36.8	36.1	54.1
54	57.3	41.4	62.2

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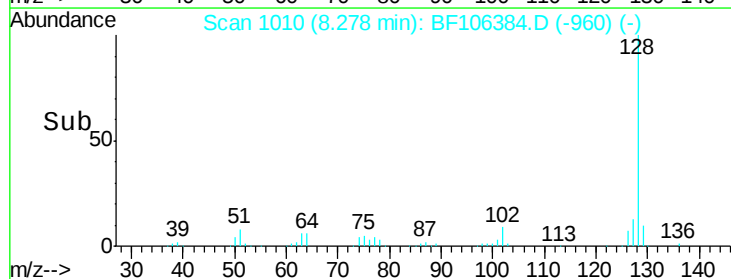
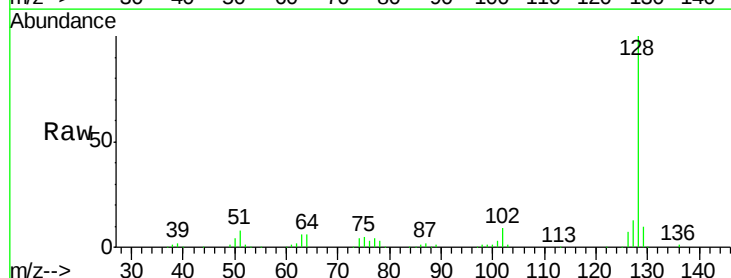
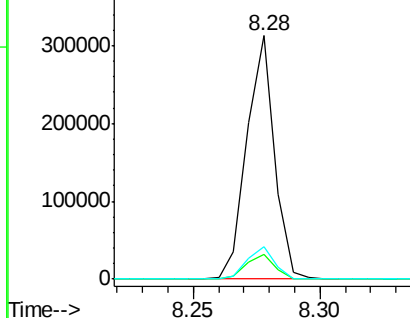
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Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

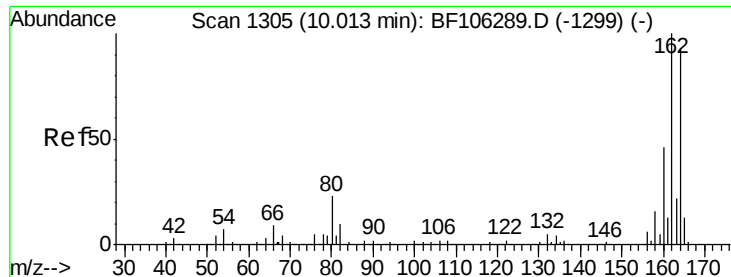


#31
Naphthalene
Concen: 13.429 ng
RT: 8.28 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.8	13.2
127	13.2	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





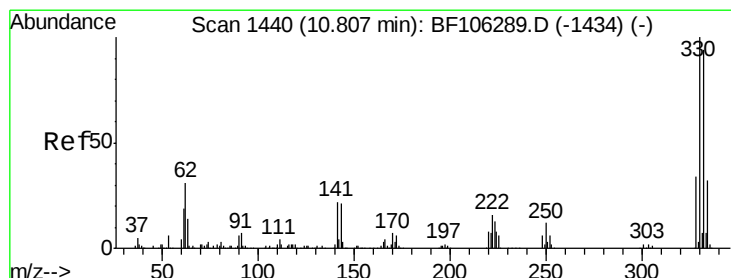
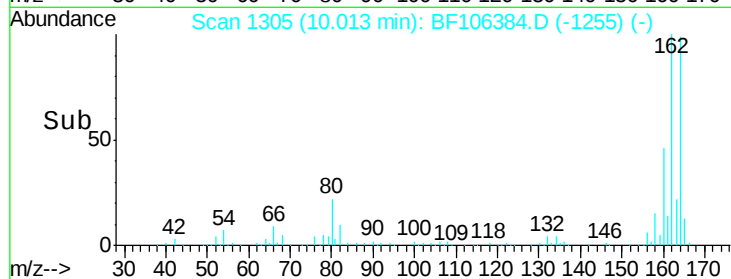
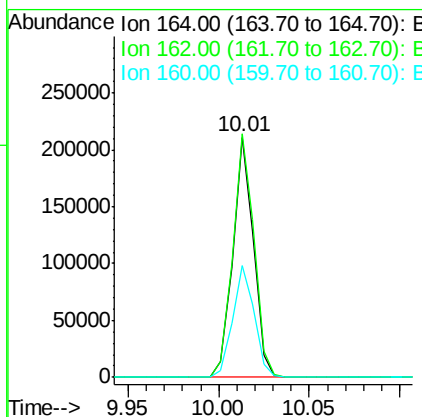
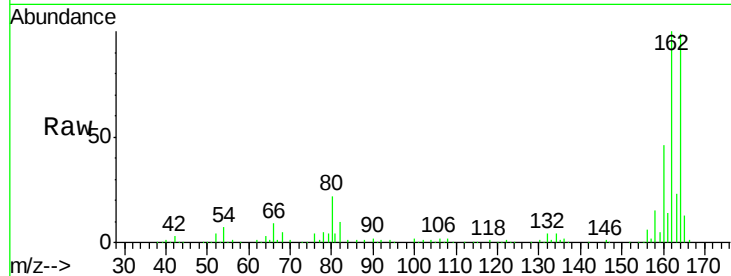
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.3	86.1	129.1
160	46.7	38.3	57.5

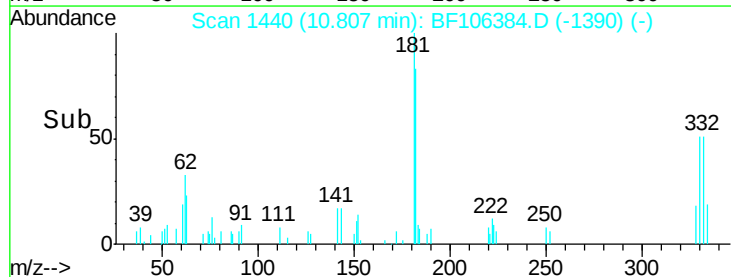
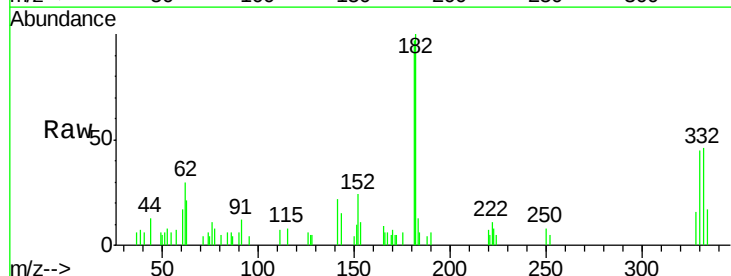
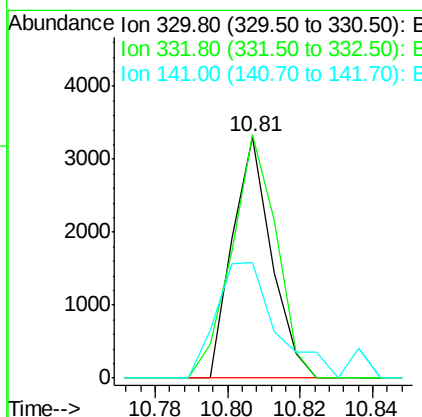
Manual Integrations
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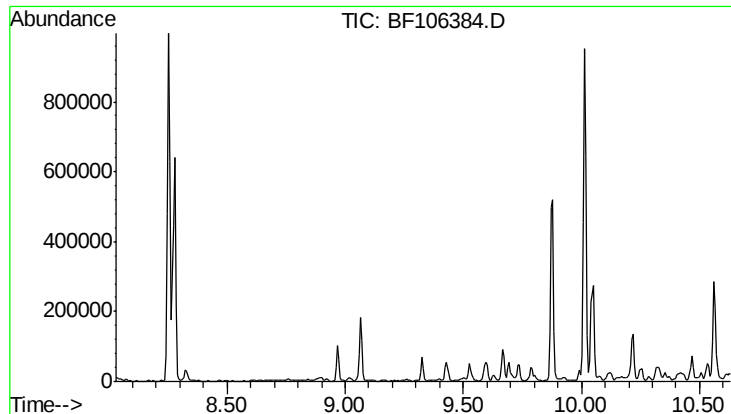
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#41
2,4,6-Tribromophenol
Concen: 1.534 ng
RT: 10.81 min Scan# 1440
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
330	100		
332	114.9	77.0	115.6
141	73.9	29.9	44.9#





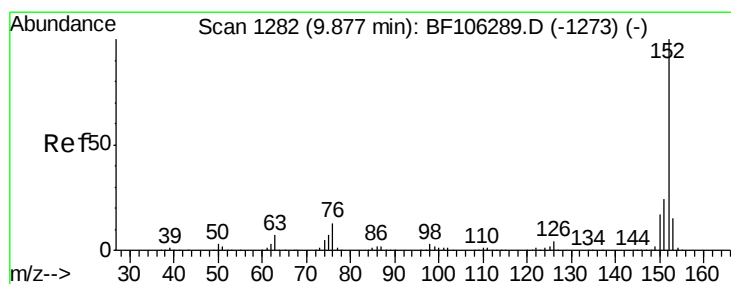
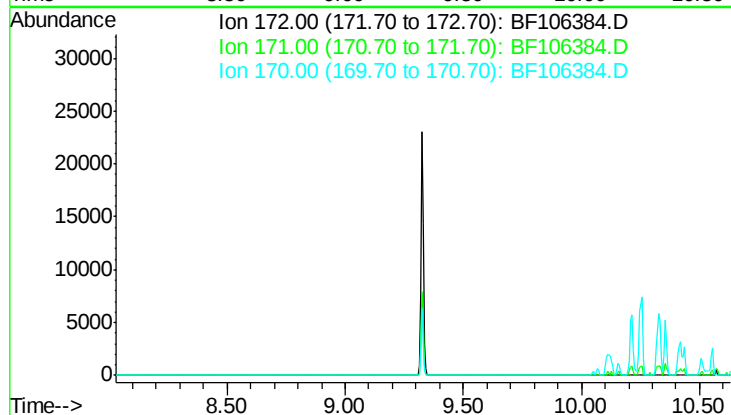
#44
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.33 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Manual Integrations
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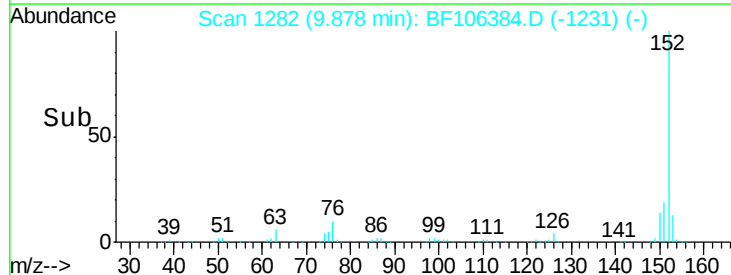
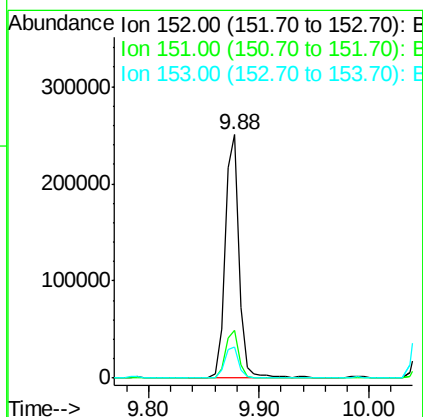
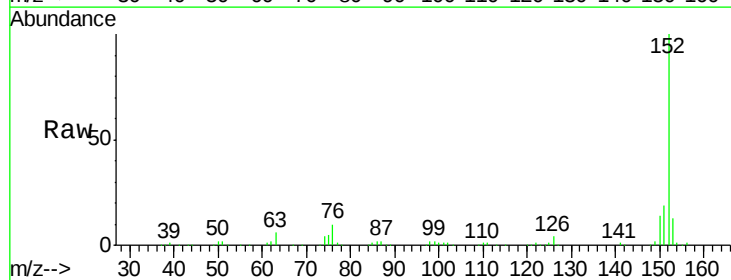
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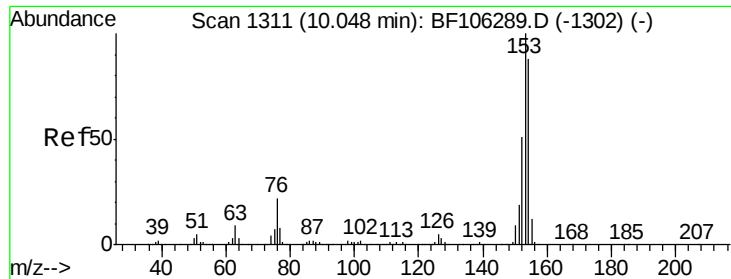
Tot Ion: 172
Sig Exp Ratio
172 100
171 37.1
170 24.5



#48
Acenaphthylene
Concen: 13.949 ng
RT: 9.88 min Scan# 1282
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion: 152 Resp: 221700
Ion Ratio Lower Upper
152 100
151 19.4 16.3 24.5
153 12.8 10.7 16.1





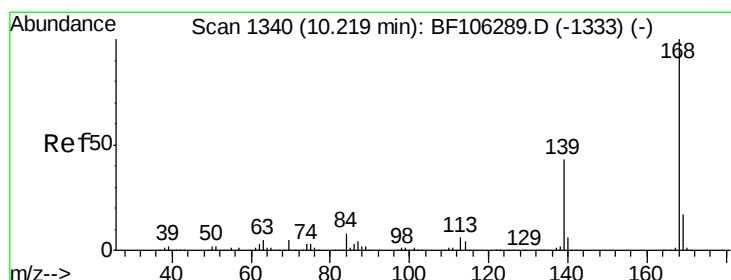
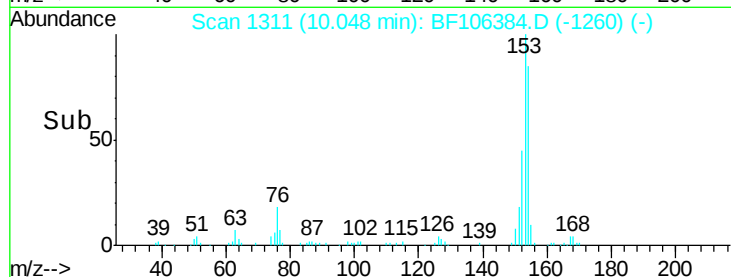
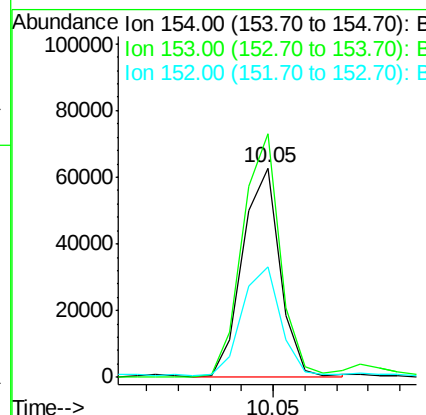
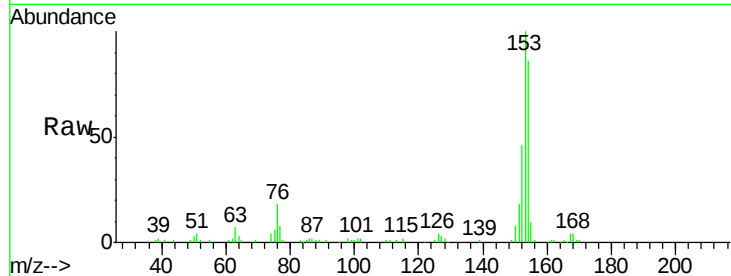
#51
Acenaphthene
Concen: 5.034 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
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Tot Ion	Ratio	Lower	Upper
154	100		
153	116.3	91.2	136.8
152	53.0	43.8	65.8

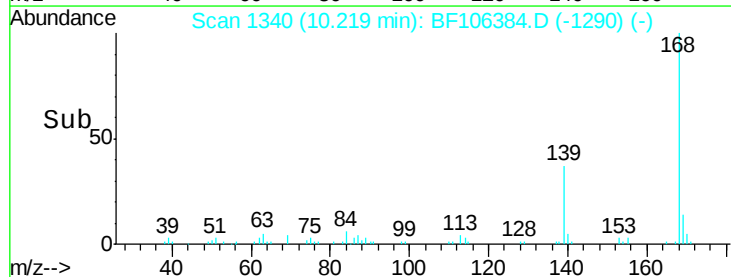
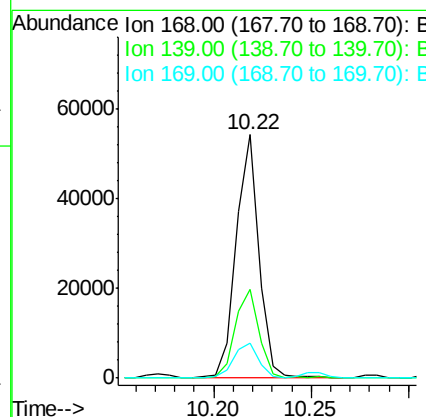
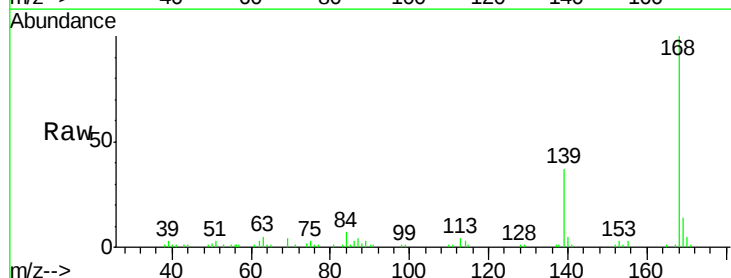
Manual Integrations
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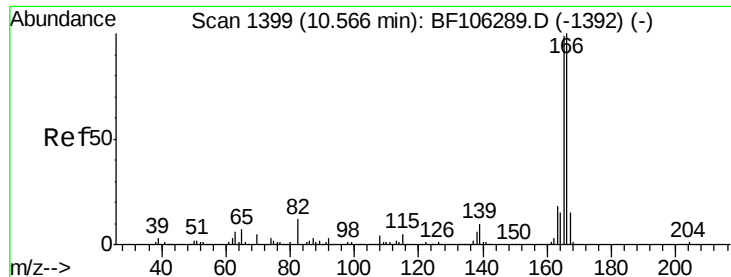
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#54
Dibenzofuran
Concen: 3.183 ng
RT: 10.22 min Scan# 1340
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.6	30.1	45.1
169	14.4	10.9	16.3





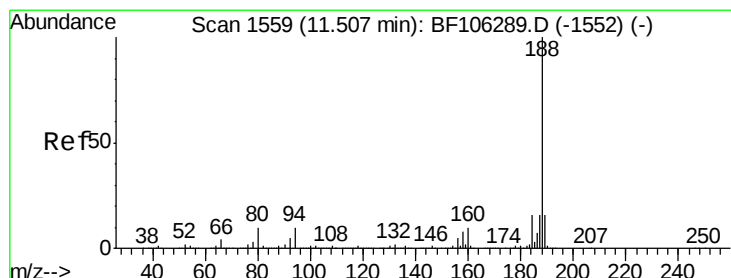
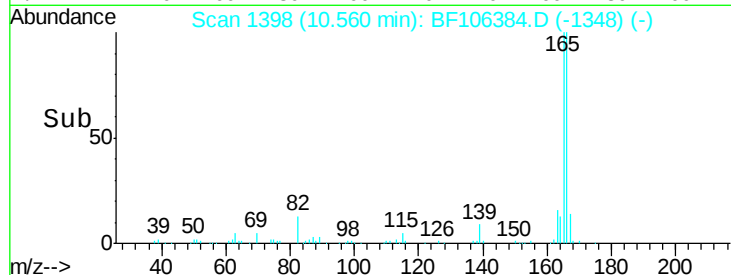
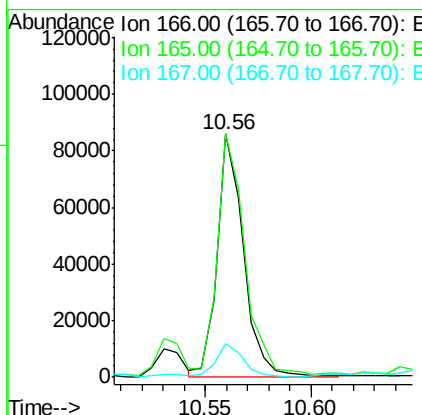
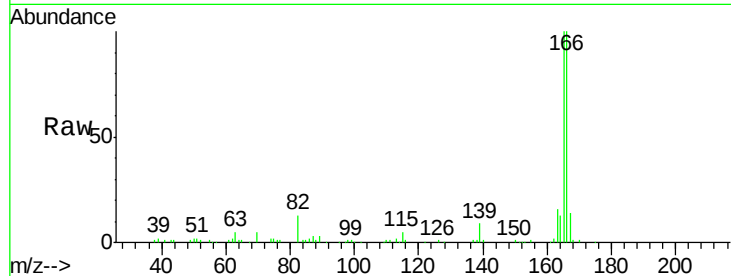
#57
Fluorene
 Concen: 6.786 ng
 RT: 10.56 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF106384.D
 Acq: 13 Jun 2018 10:11

Instrument :
 BNA_F
 ClientSampleId :
 SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.8	119.8
167	13.9	10.6	16.0

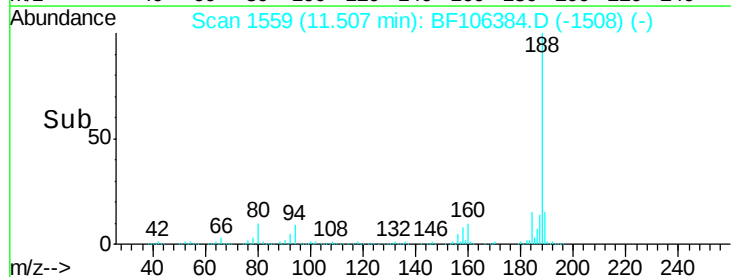
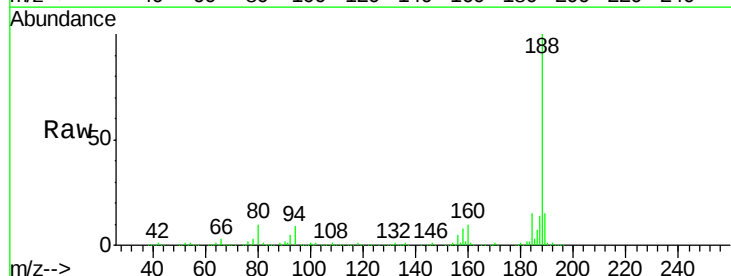
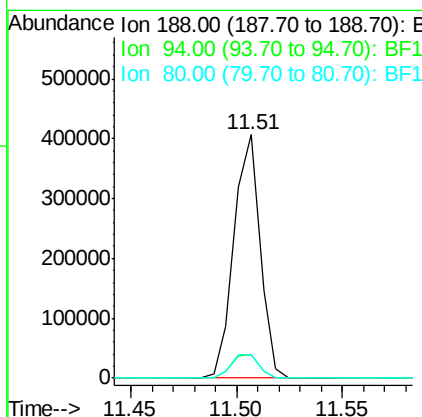
Manual Integrations
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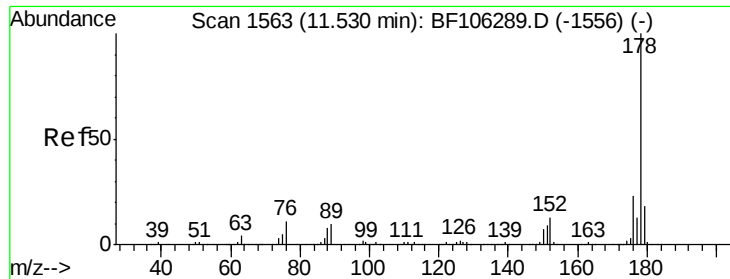
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: BF106384.D
 Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.5	12.7
80	9.9	9.2	13.8





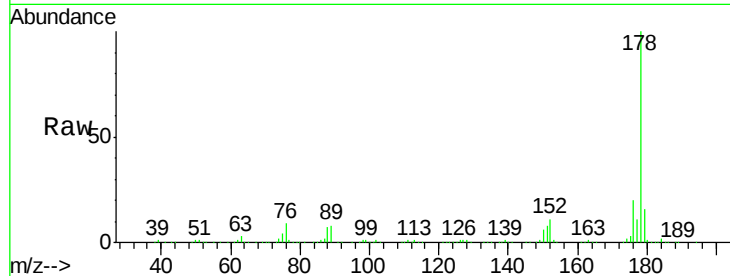
#70
Phenanthrene
Concen: 24.882 ng
RT: 11.53 min Scan# 1563
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

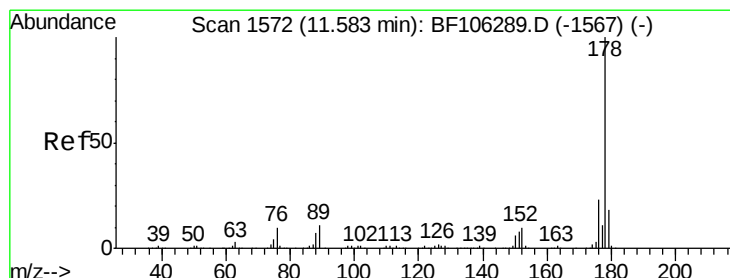
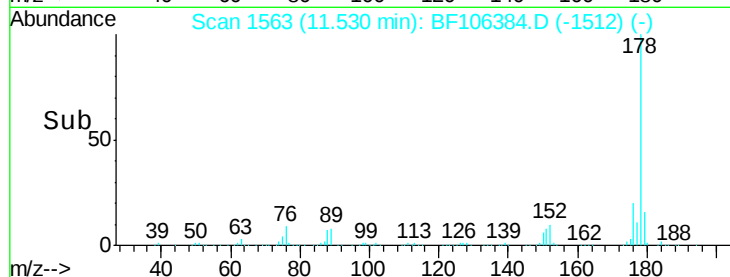
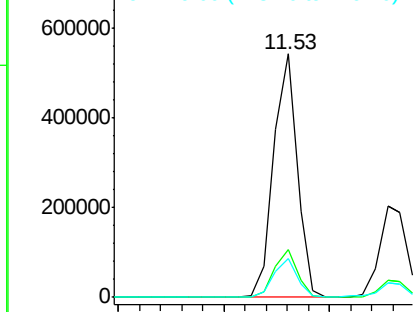
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	16.0	13.0	19.6

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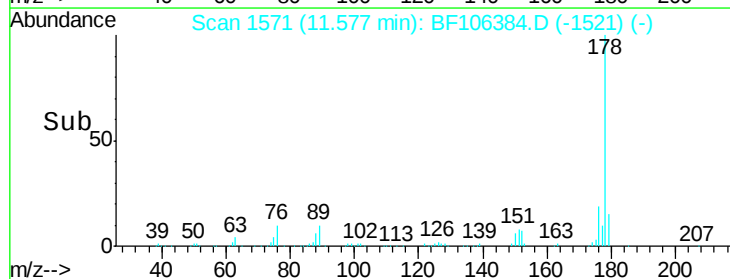
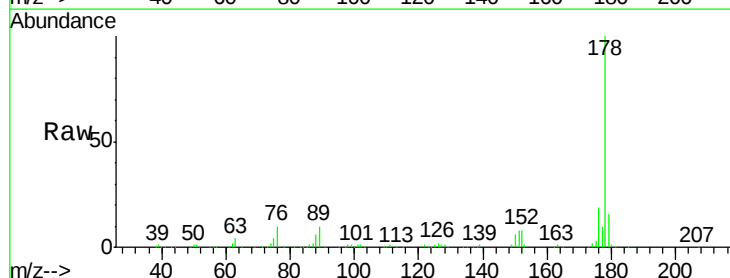
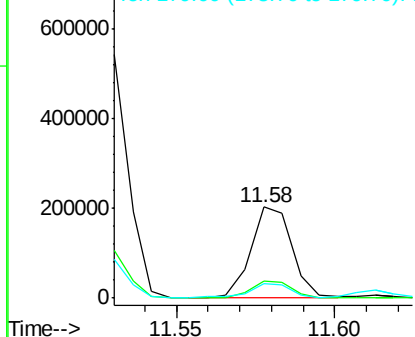
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

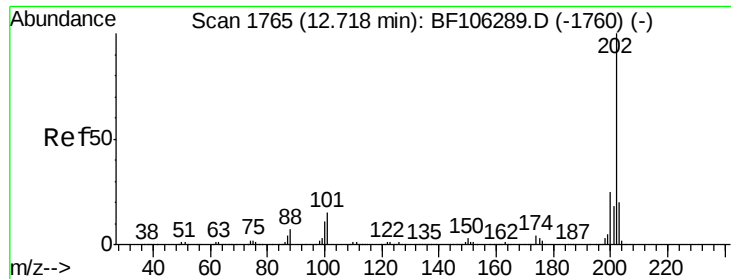


#71
Anthracene
Concen: 10.544 ng
RT: 11.58 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.8	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





#74

Fluoranthene

Concen: 41.717 ng

RT: 12.72 min Scan# 1766

Delta R.T. -0.00 min

Lab File: BF106384.D

Acq: 13 Jun 2018 10:11

Instrument :

BNA_F

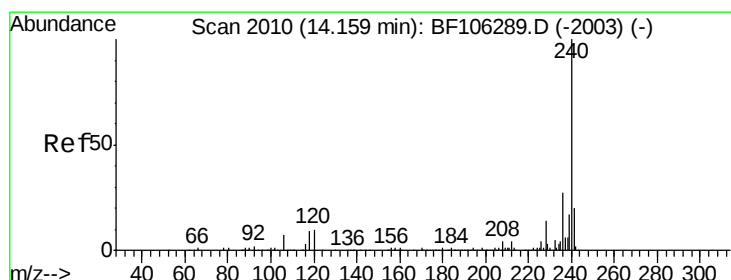
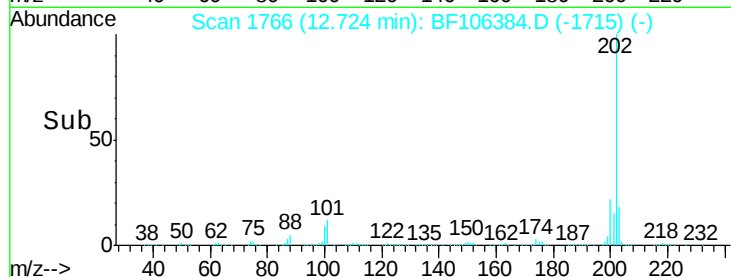
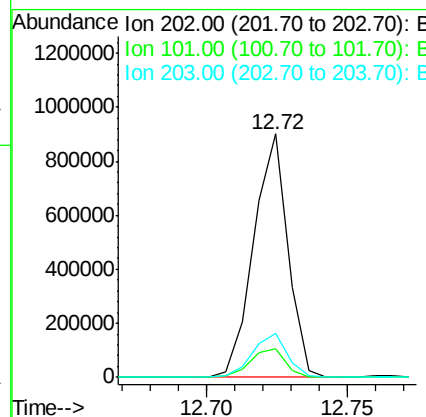
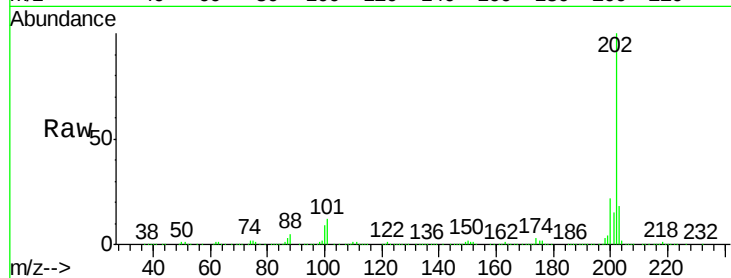
ClientSampleId :

SB02-3_E_5DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.7	0.0	34.1
203	17.8	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

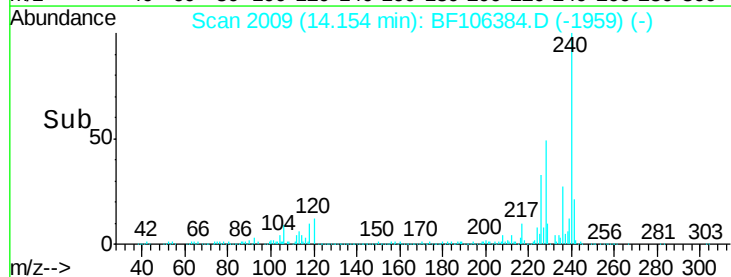
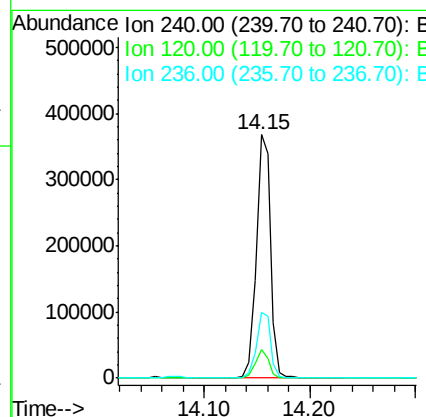
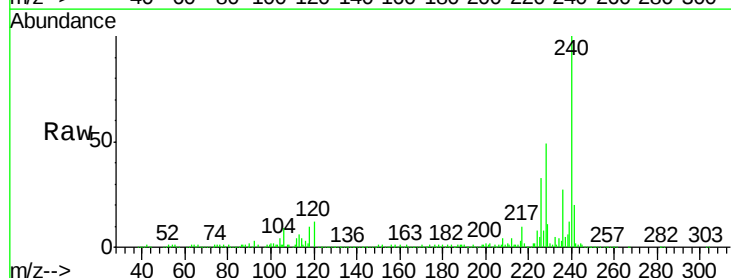
RT: 14.15 min Scan# 2009

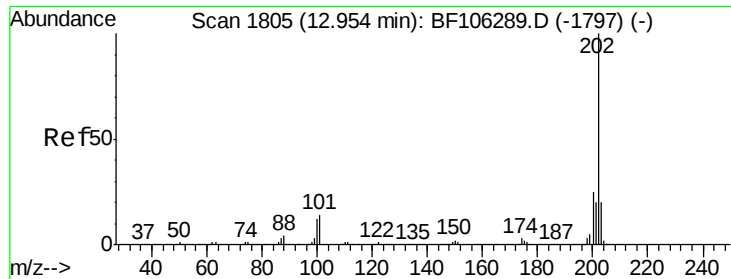
Delta R.T. -0.01 min

Lab File: BF106384.D

Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	11.9	9.5	14.3
236	26.8	20.7	31.1





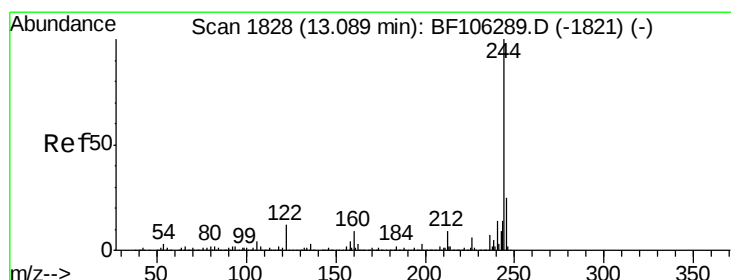
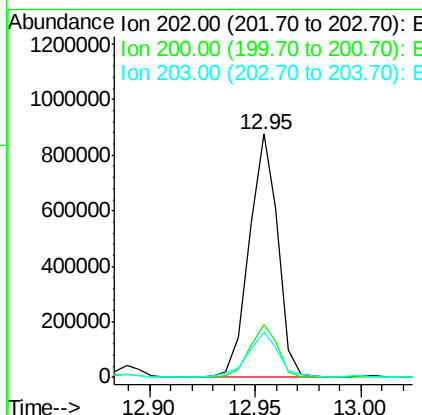
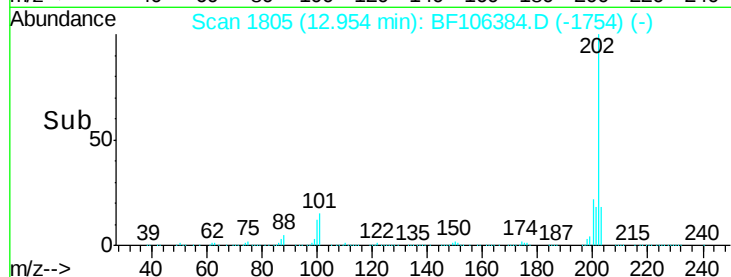
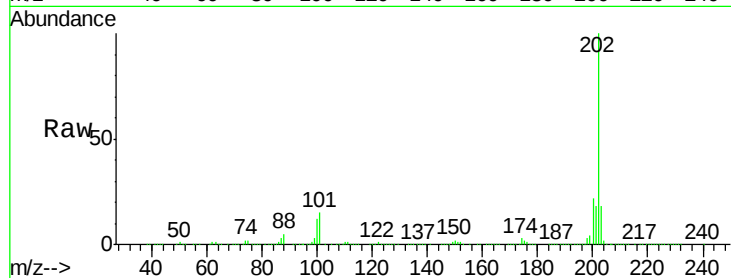
#77
Pvrene
Concen: 37.710 ng
RT: 12.95 min Scan# 1805
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.2
203	18.4	14.3	21.5

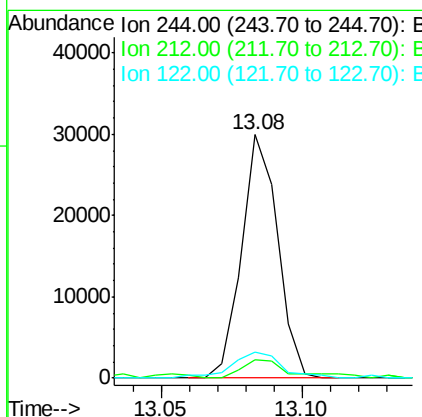
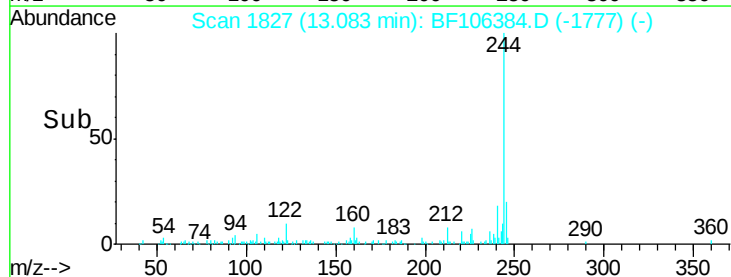
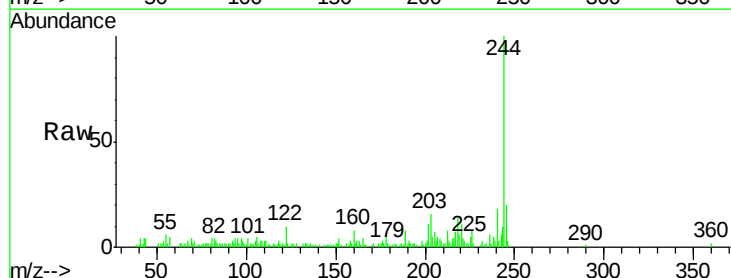
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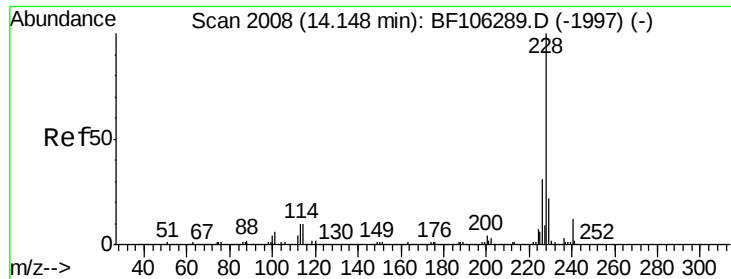
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#78
Terphenyl-d14
Concen: 1.896 ng
RT: 13.08 min Scan# 1827
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.8	5.4	8.0
122	10.5	11.0	16.4#





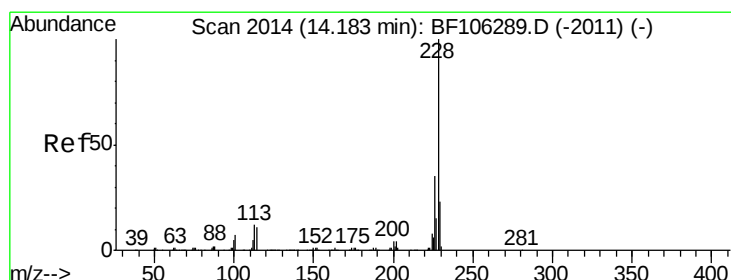
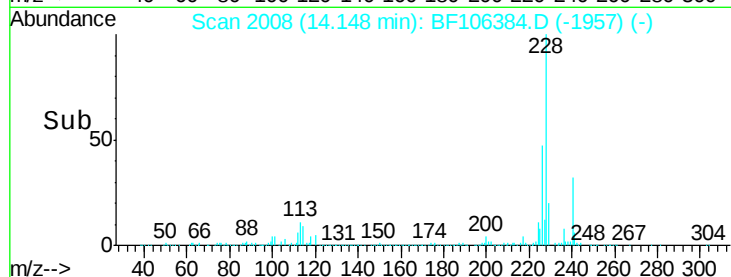
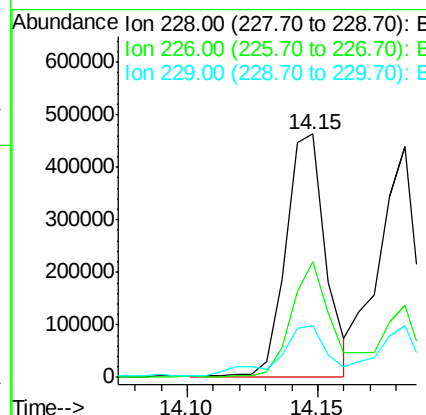
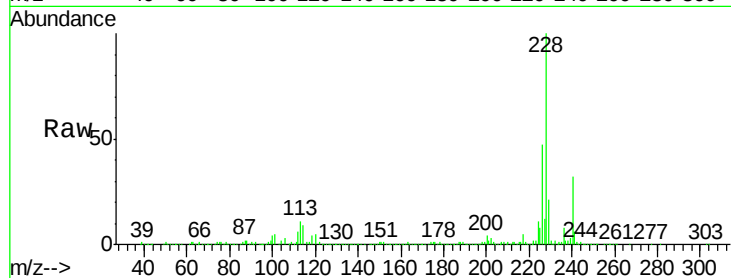
#80
Benzo(a)anthracene
Concen: 23.899 ng m
RT: 14.15 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	47.4	22.6	33.8#
229	21.2	15.8	23.6

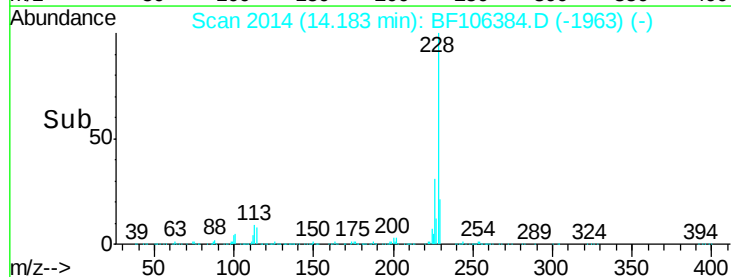
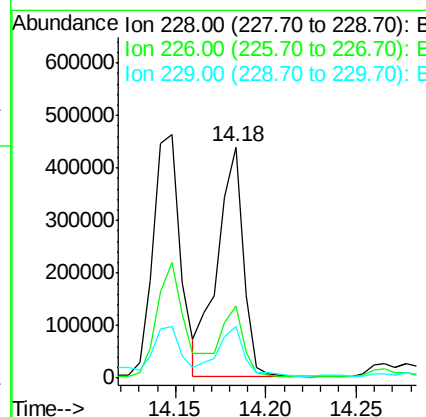
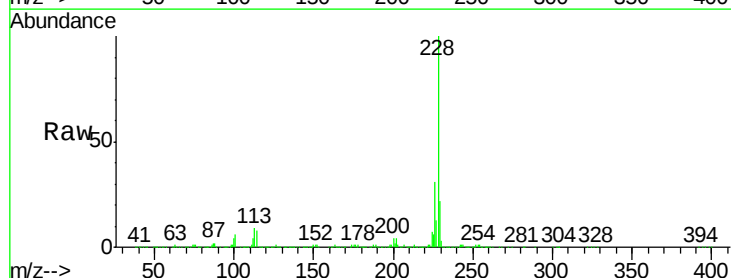
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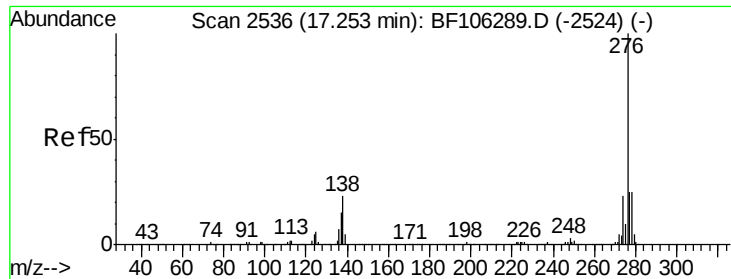
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#82
Chrysene
Concen: 23.292 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	22.1	16.2	24.4





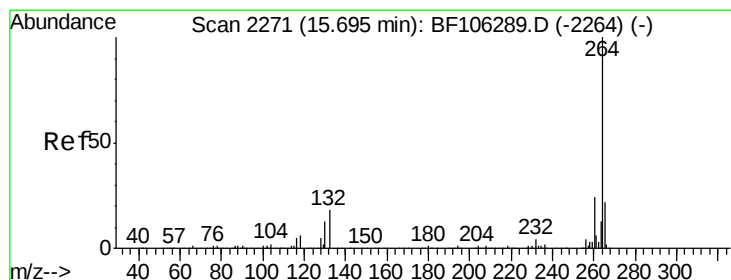
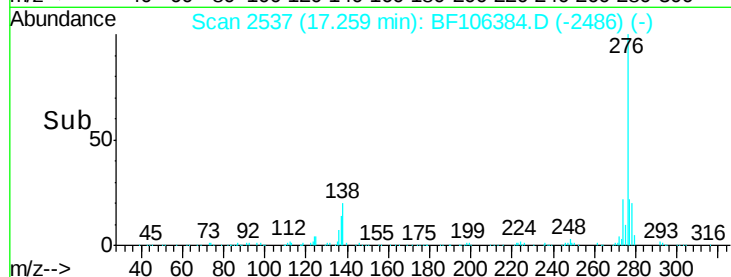
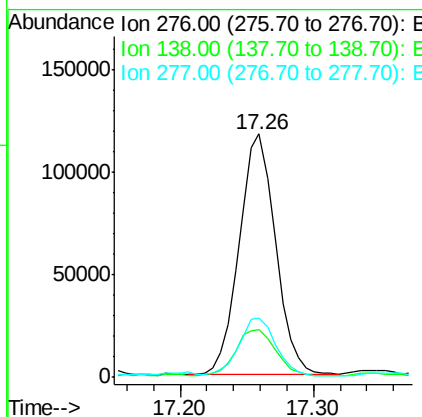
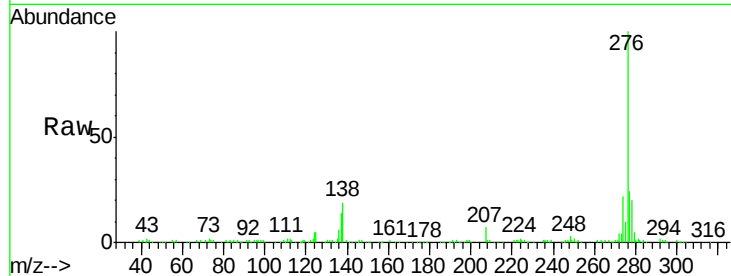
#85
Indeno(1,2,3-cd)pyrene
Concen: 14.668 ng
RT: 17.26 min Scan# 2537
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.1	25.0	37.6#
277	24.4	20.1	30.1

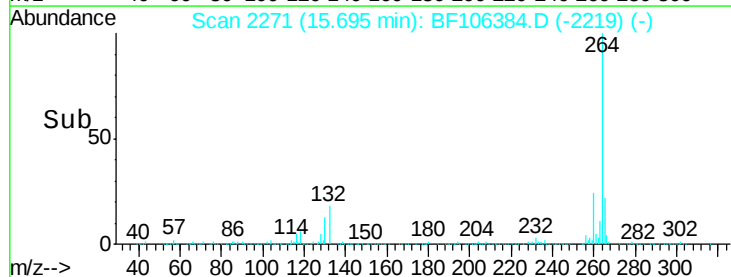
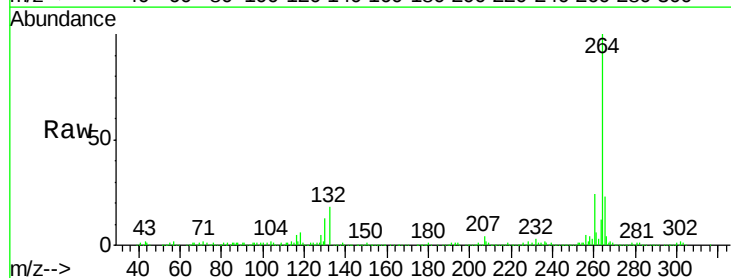
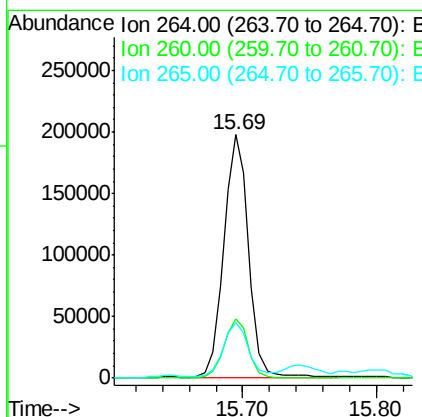
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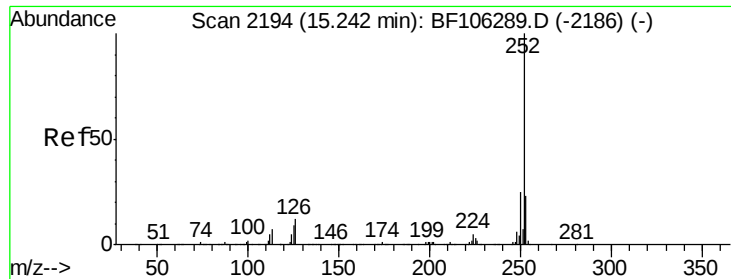
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.7	17.5	26.3





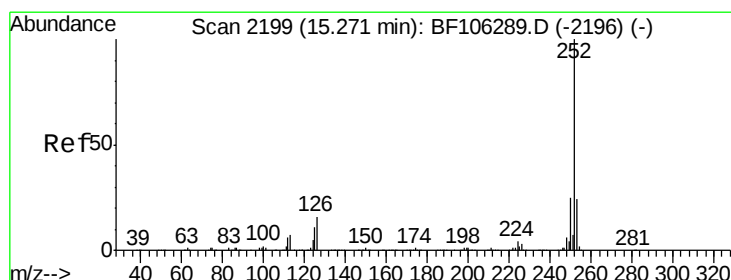
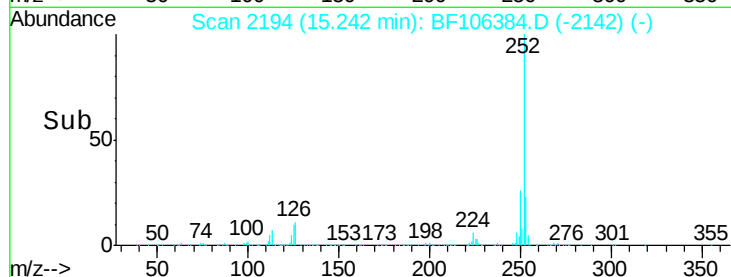
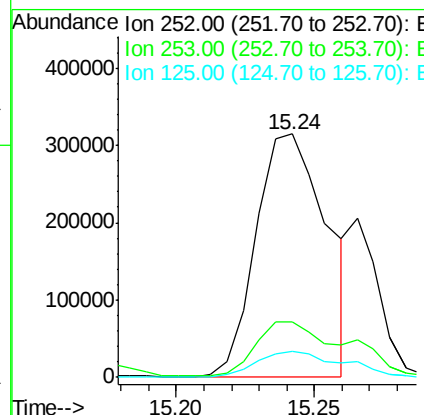
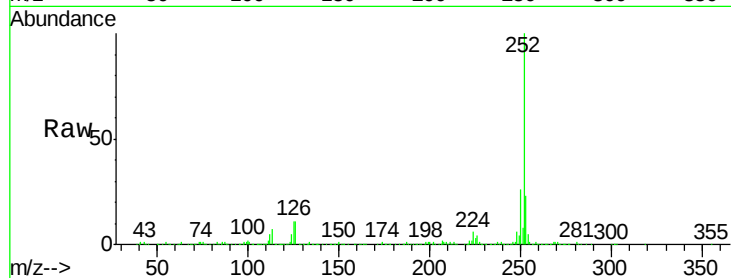
#87
Benzo(b)fluoranthene
Concen: 36.077 ng m
RT: 15.24 min Scan# 2194
Delta R.T. 0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	10.8	9.0	13.6

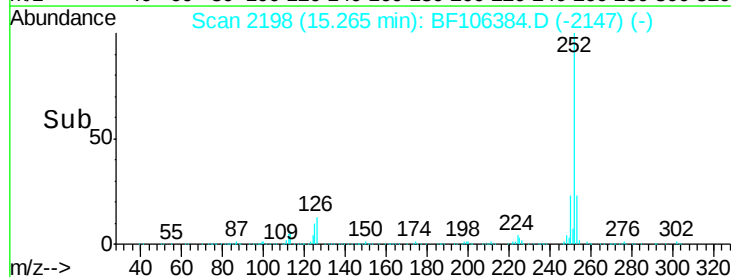
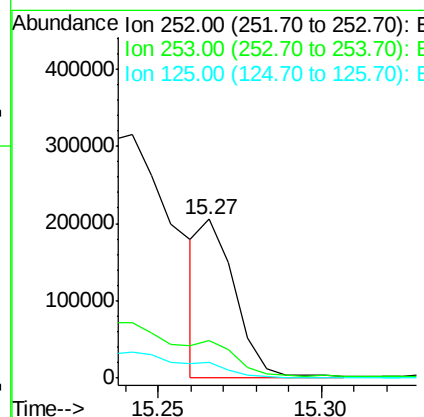
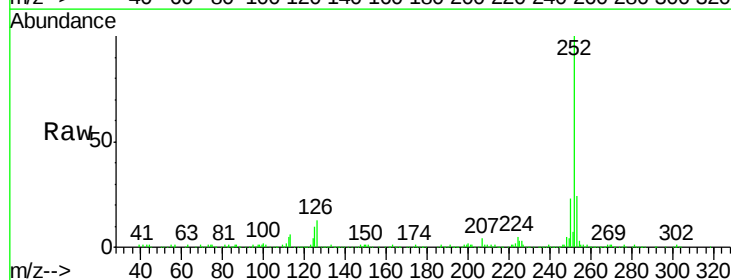
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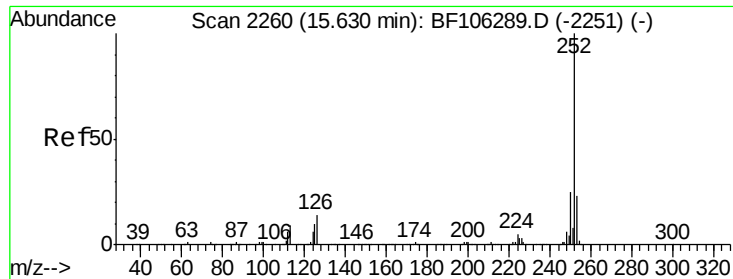
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#88
Benzo(k)fluoranthene
Concen: 9.908 ng m
RT: 15.27 min Scan# 2198
Delta R.T. -0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	9.7	10.2	15.2#





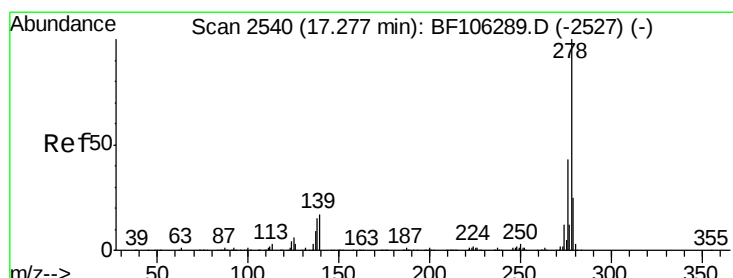
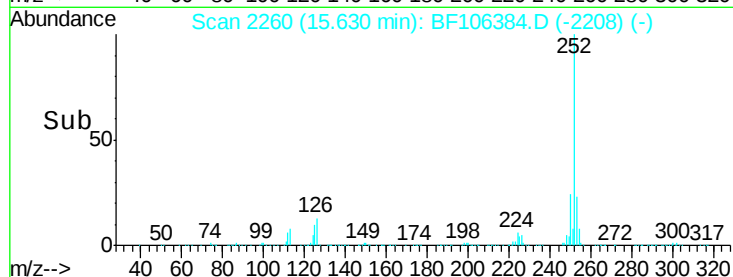
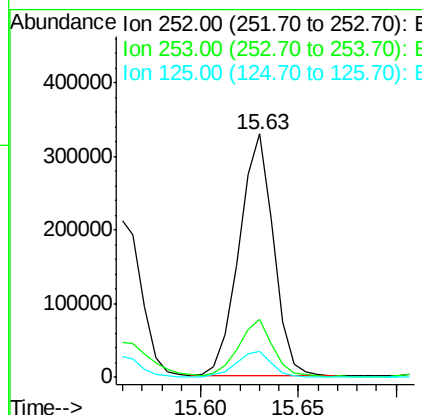
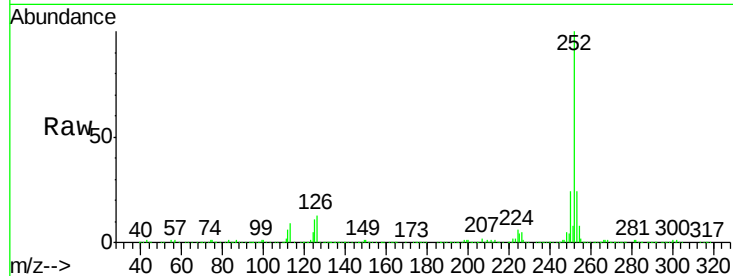
#89
Benzo(a)pyrene
Concen: 28.753 ng
RT: 15.63 min Scan# 2260
Delta R.T. 0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	10.5	9.8	14.6

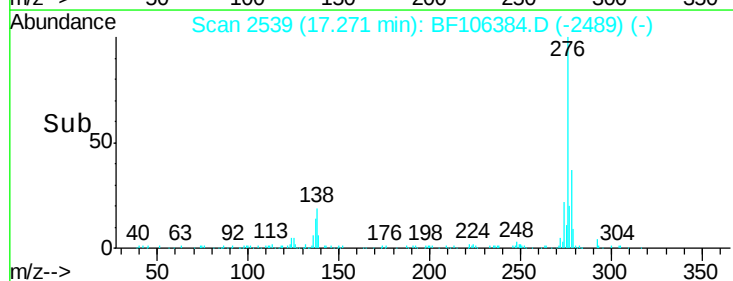
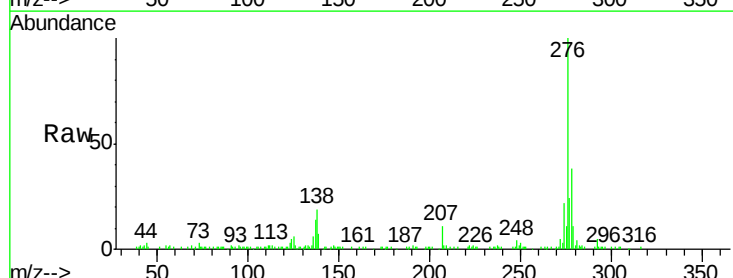
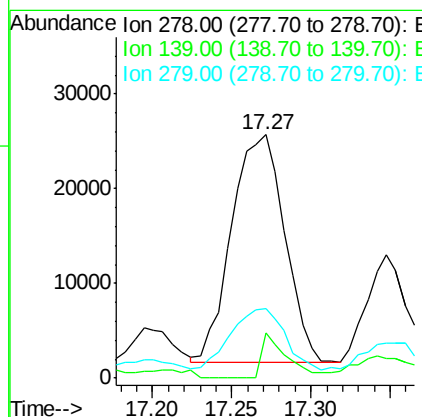
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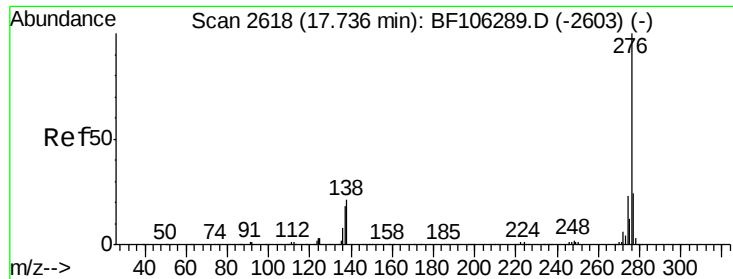
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#90
Dibenzo(a,h)anthracene
Concen: 4.821 ng
RT: 17.27 min Scan# 2539
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.4	15.9	23.9
279	28.4	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 19.833 ng
 RT: 17.74 min Scan# 2619
 Delta R.T. 0.01 min
 Lab File: BF106384.D
 Acq: 13 Jun 2018 10:11

Instrument :
 BNA_F
 ClientSampleId :
 SB02-3_E_5DL

Tot Ion:	276	Resp:	224431
Ion Ratio	Lower	Upper	
276	100		
277	23.1	17.9	26.9
138	22.6	21.8	32.8

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