

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022118\
 Data File : BF103131.D
 Acq On : 21 Feb 2018 12:57
 Operator : SJ/JU
 Sample : J1403-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-022018

Manual Integrations
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Sohil
 2/22/2018 9:04:58 AM

Quant Time: Feb 21 13:43:17 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 16 14:34:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	148055	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	595462	20.00	ng	0.00
38) Acenaphthene-d10	9.91	164	237687	20.00	ng	-0.01
63) Phenanthrene-d10	11.40	188	344350	20.00	ng	0.00
75) Chrysene-d12	14.05	240	275230	20.00	ng	0.00
86) Perylene-d12	15.54	264	278153	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	947628	97.20	ng	0.00
7) Phenol-d6	6.51	99	1114893	94.98	ng	0.00
23) Nitrobenzene-d5	7.44	82	678090	79.00	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	164763	86.12	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	838433	58.53	ng	-0.01
78) Terphenyl-d14	12.99	244	615278	52.93	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.18	128	689063	23.685	ng	99
37) 2-Methylnaphthalene	8.87	142	311897	16.375	ng	98
45) 1,1'-Biphenyl	9.33	154	64568	3.225	ng	93
48) Acenaphthylene	9.77	152	254020	10.377	ng	99
49) Dimethylphthalate	9.62	163	75047	4.049	ng	# 99
51) Acenaphthene	9.95	154	121410	8.293	ng	99
54) Dibenzofuran	10.12	168	256829	12.449	ng	97
57) Fluorene	10.46	166	340067	22.655	ng	99
70) Phenanthrene	11.43	178	1261213	65.763	ng	99
71) Anthracene	11.48	178	418234	21.441	ng	98
72) Carbazole	11.63	167	129653	6.785	ng	99
74) Fluoranthene	12.63	202	1078869	55.913	ng	99
77) Pyrene	12.86	202	959836	44.473	ng	99
80) Benzo(a)anthracene	14.04	228	550540	31.806	ng	98
82) Chrysene	14.07	228	455917	26.129	ng	97
85) Indeno(1,2,3-cd)pyrene	17.06	276	194692	13.453	ng	96
87) Benzo(b)fluoranthene	15.11	252	600275m	33.286	ng	
88) Benzo(k)fluoranthene	15.13	252	179652m	10.426	ng	
89) Benzo(a)pyrene	15.48	252	391467	24.116	ng	# 94
90) Dibenzo(a,h)anthracene	17.07	278	51057	3.875	ng	# 84
91) Benzo(g,h,i)perylene	17.52	276	170900	13.252	ng	95

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

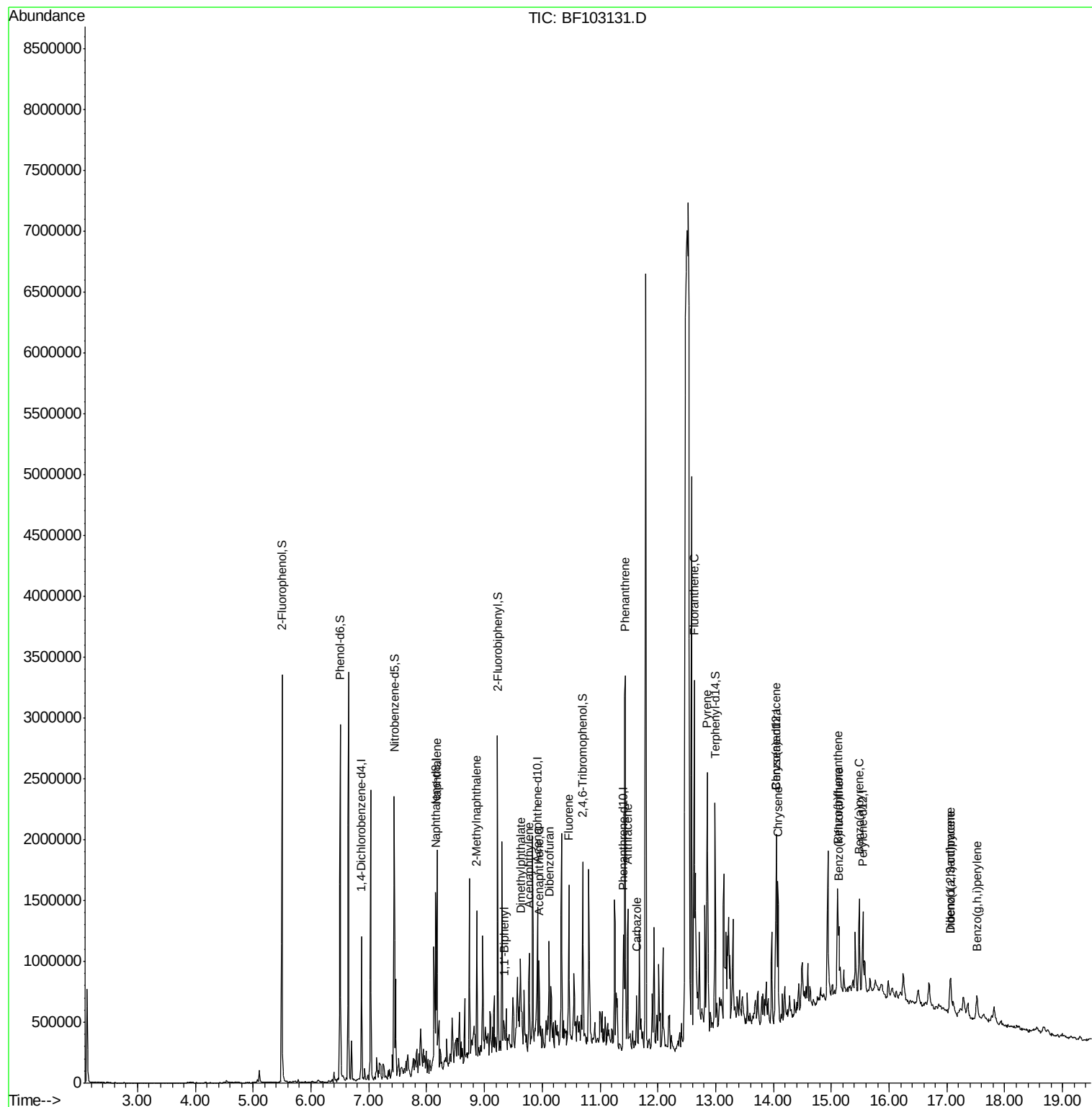
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022118\
Data File : BF103131.D
Acq On : 21 Feb 2018 12:57
Operator : SJ/JU
Sample : J1403-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

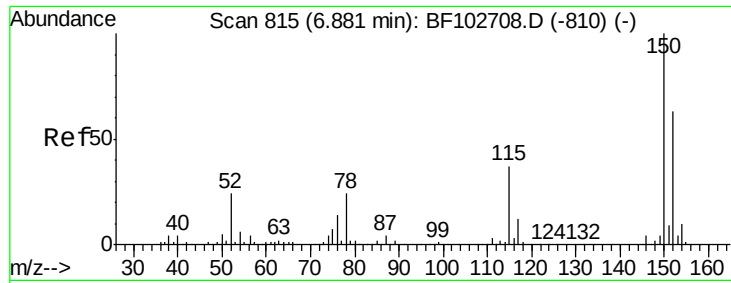
Instrument :
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ClientSampleId :
SU-04-022018

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#1

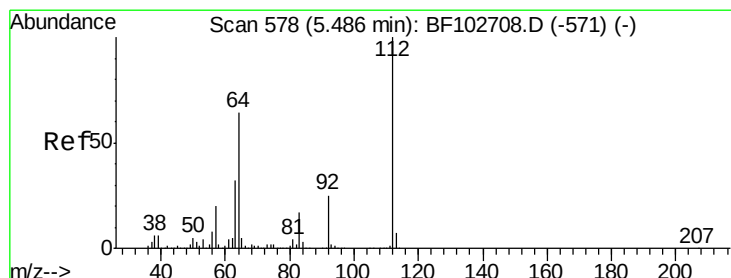
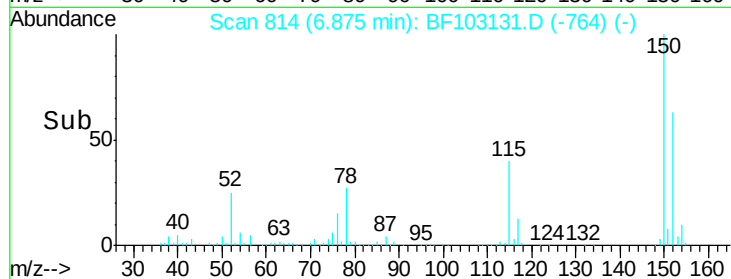
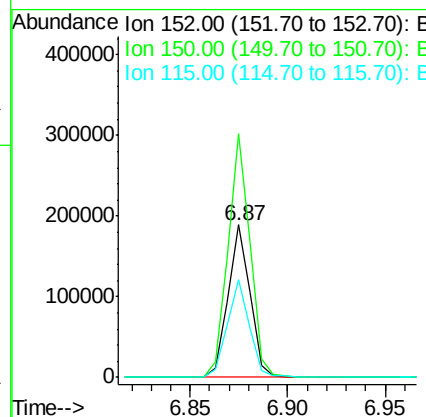
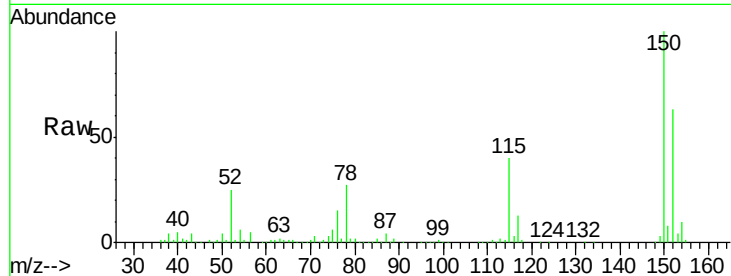
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Instrument :
BNA_F
ClientSampleId :
SU-04-022018

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.5	124.6	186.8
115	64.1	50.1	75.1

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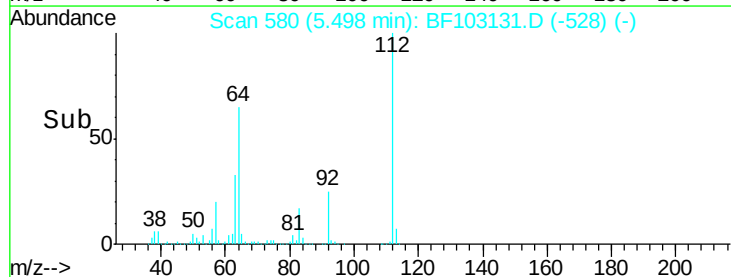
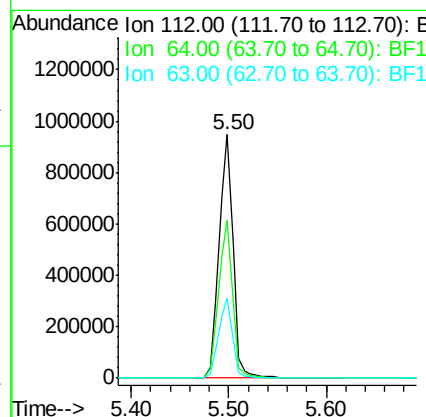
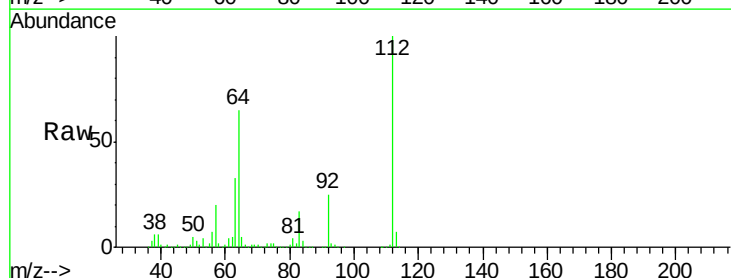
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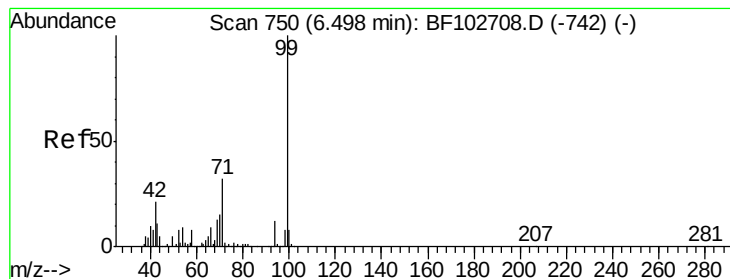


#5

2-Fluorophenol
Concen: 97.202 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.9	47.9	71.9
63	32.9	23.7	35.5





#7

Phenol-d6

Concen: 94.978 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

ClientSampled :

SU-04-022018

Tot Ion: 99 Resp: 1114893

Ion Ratio Lower Upper

99 100

42 18.4 14.5 21.7

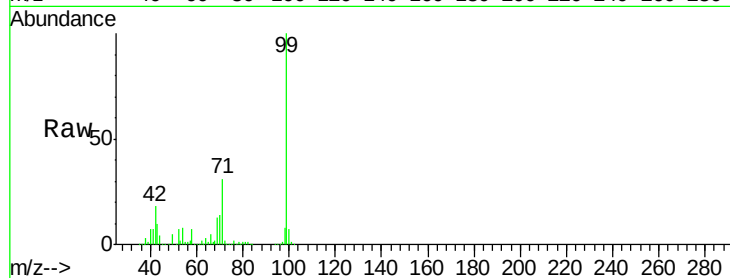
71 31.5 25.4 38.0

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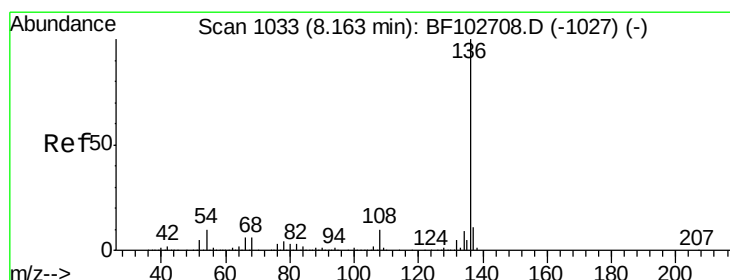
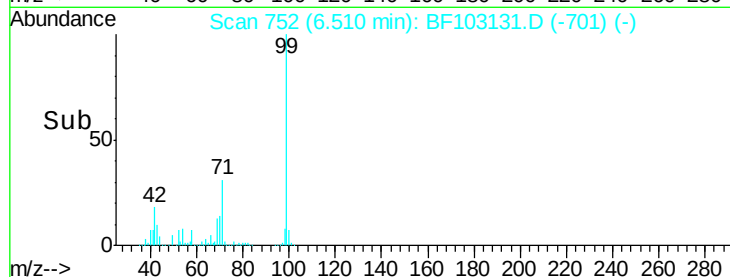
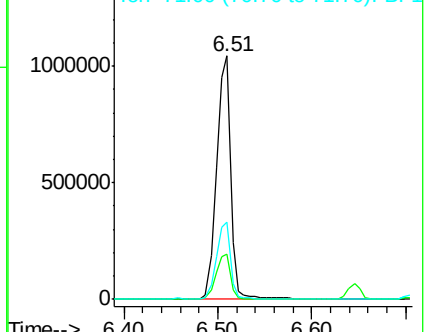
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Tgt Ion: 136 Resp: 595462

Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 10.0 6.6 9.8#

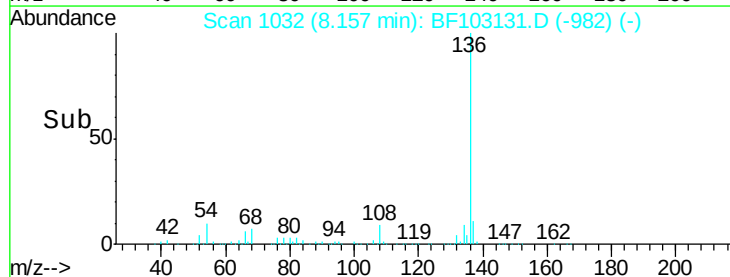
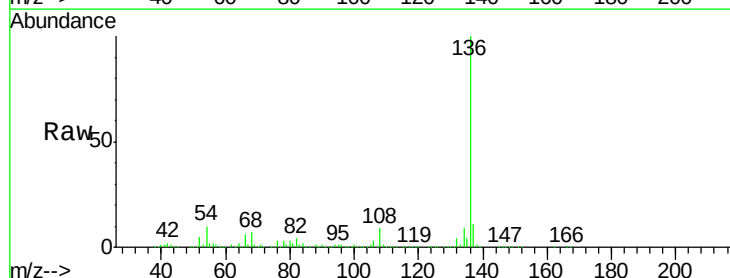
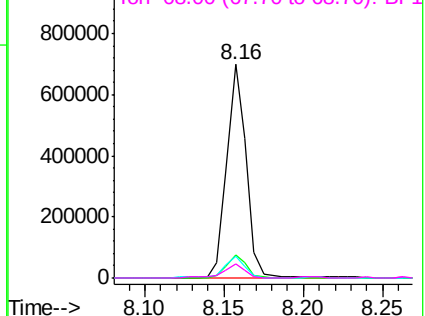
68 6.9 5.0 7.4

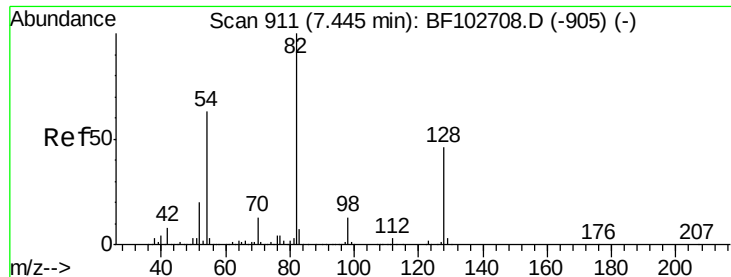
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





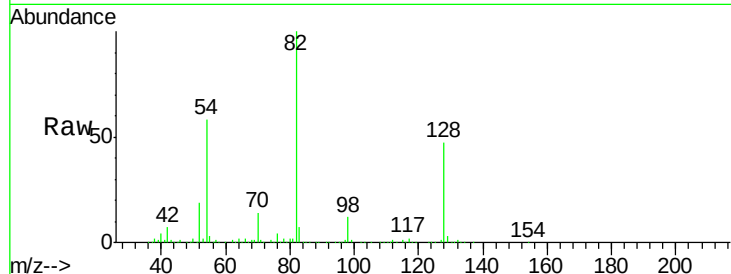
#23
 Nitrobenzene-d5
 Concen: 78.997 ng
 RT: 7.44 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: BF103131.D
 Acq: 21 Feb 2018 12:57

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-022018

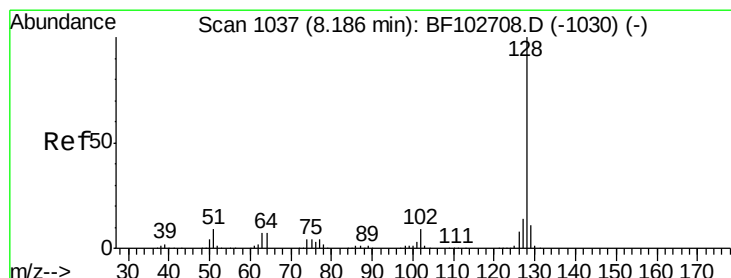
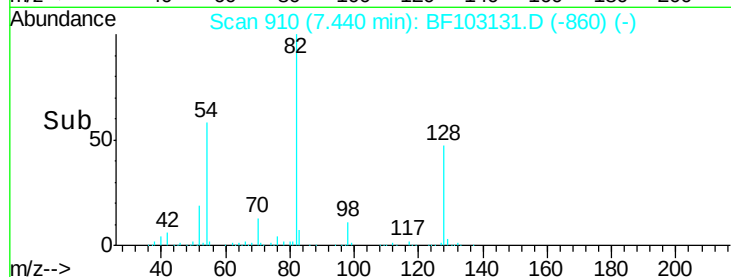
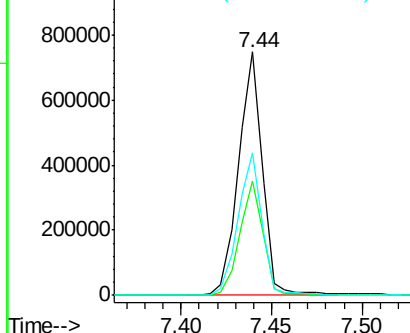
Tot Ion	Ratio	Lower	Upper
82	100		
128	46.8	36.1	54.1
54	58.5	41.4	62.2

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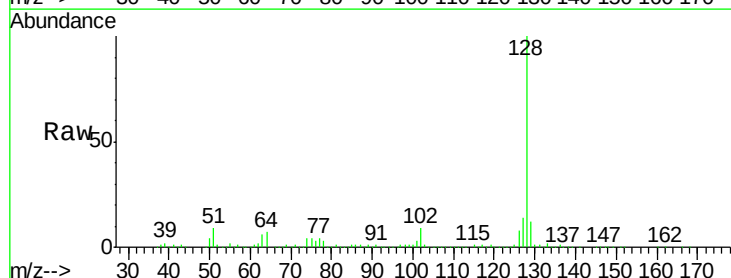


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

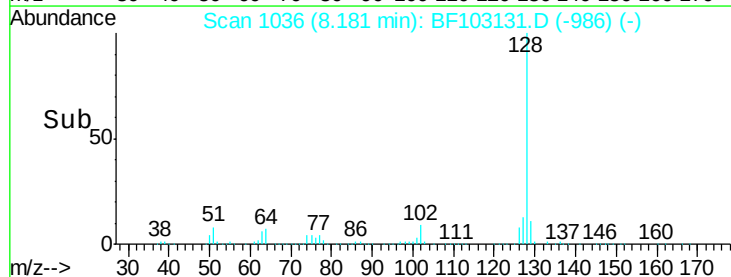
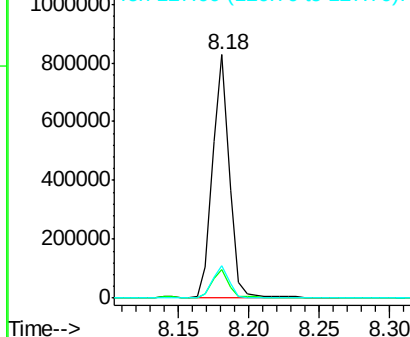


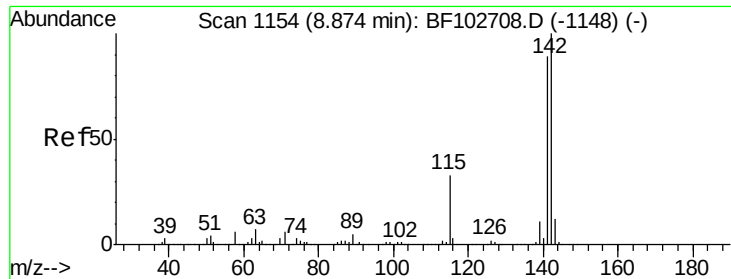
#31
 Naphthalene
 Concen: 23.685 ng
 RT: 8.18 min Scan# 1036
 Delta R.T. -0.01 min
 Lab File: BF103131.D
 Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	13.5	10.9	16.3



Abundance Ion 128.00 (127.70 to 128.70): BF1
 Ion 129.00 (128.70 to 129.70): BF1
 Ion 127.00 (126.70 to 127.70): BF1





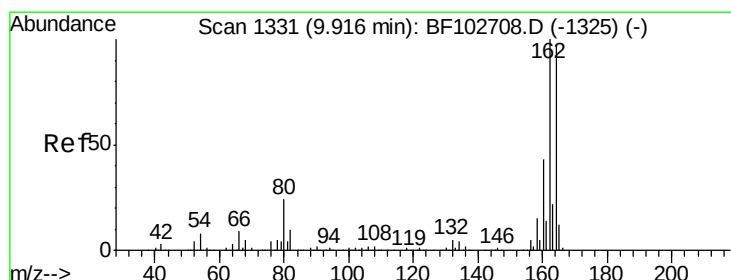
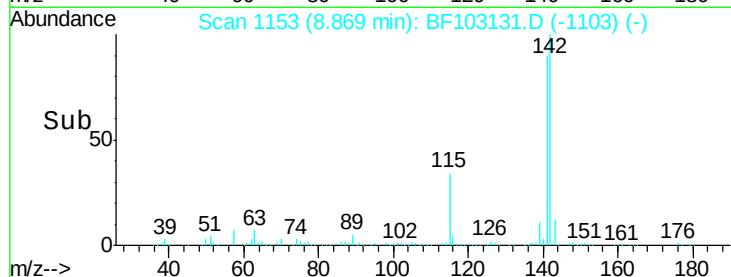
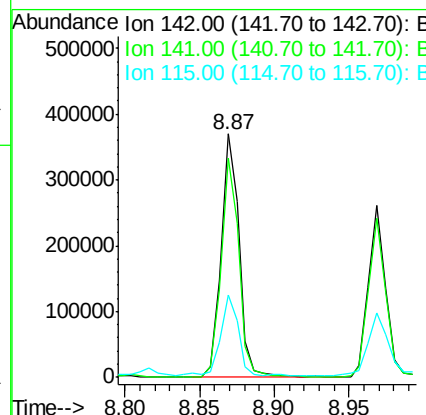
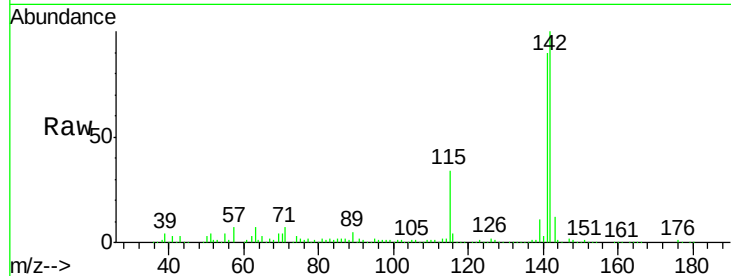
#37
 2-Methylnaphthalene
 Concen: 16.375 ng
 RT: 8.87 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: BF103131.D
 Acq: 21 Feb 2018 12:57

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-022018

Tot Ion	Ratio	Resp	Lower	Upper
142	100	311897		
141	90.0	70.8	106.2	
115	33.9	26.1	39.1	

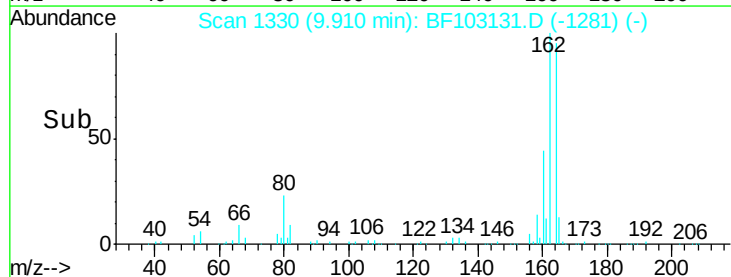
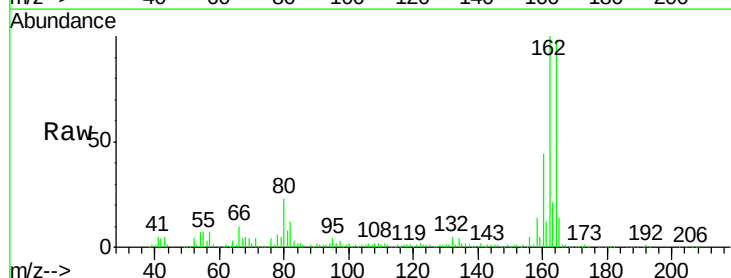
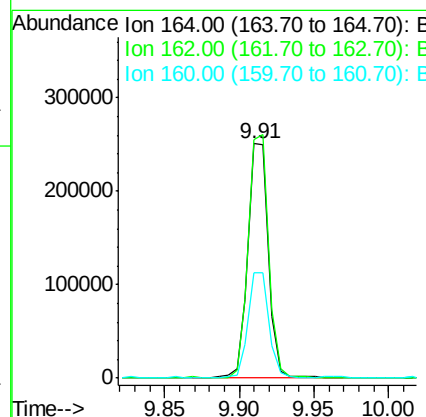
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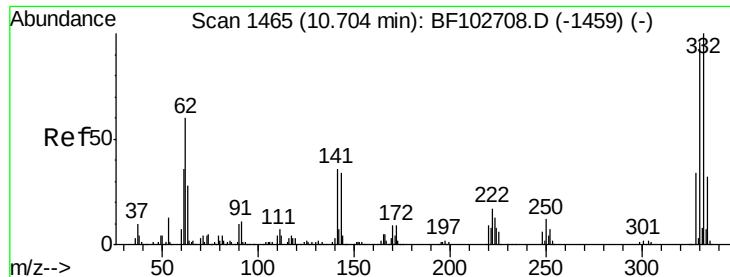
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.91 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: BF103131.D
 Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	237687		
162	102.0	86.1	129.1	
160	45.0	38.3	57.5	





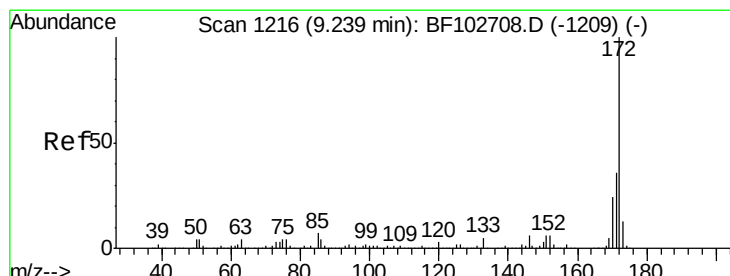
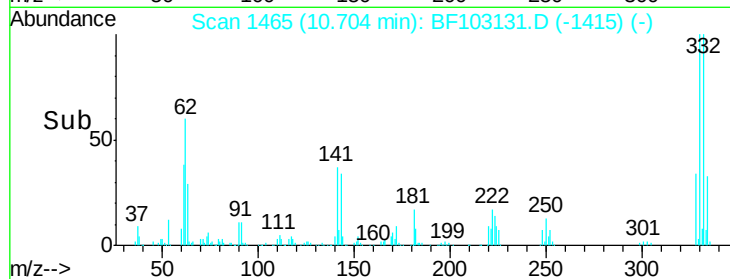
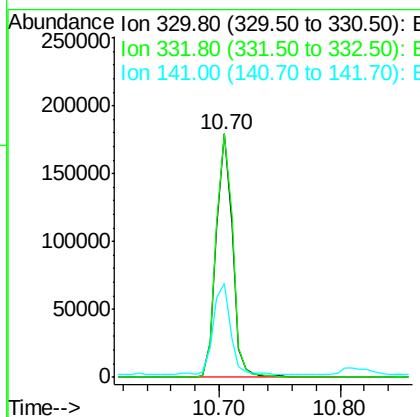
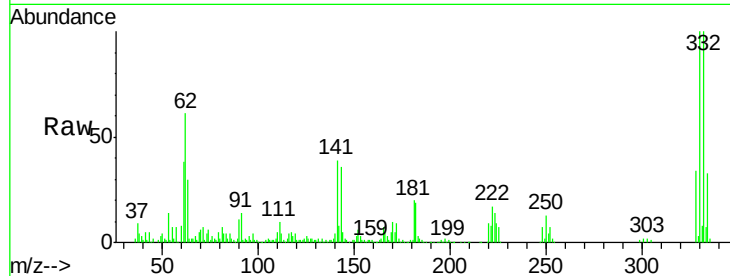
#41
 2,4,6-Tribromophenol
 Concen: 86.123 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF103131.D
 Acq: 21 Feb 2018 12:57

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-022018

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	102.5	77.0	115.6	
141	40.6	29.9	44.9	

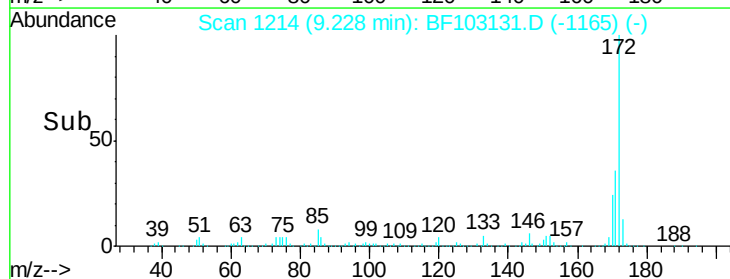
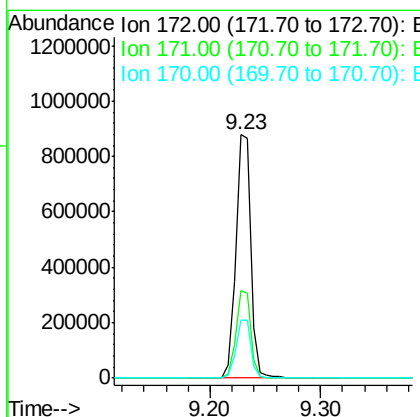
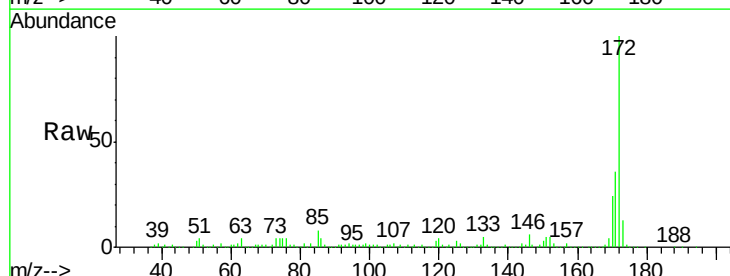
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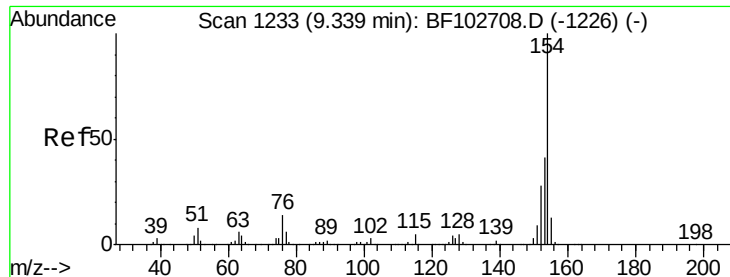
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#44
 2-Fluorobiphenyl
 Concen: 58.533 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.01 min
 Lab File: BF103131.D
 Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.1	29.7	44.5	
170	23.7	19.6	29.4	





#45

1,1'-Biphenyl

Concen: 3.225 ng

RT: 9.33 min Scan# 1232

Delta R.T. -0.01 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

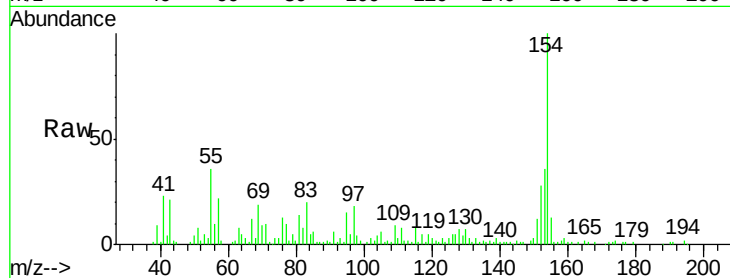
ClientSampleId :

SU-04-022018

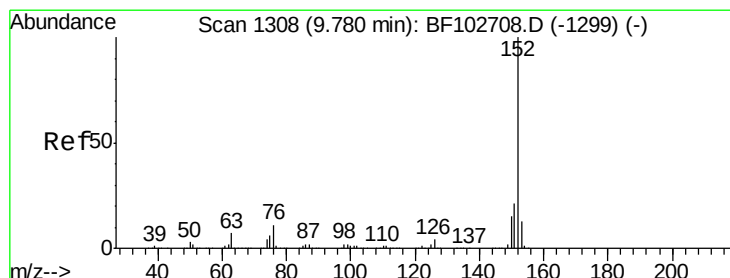
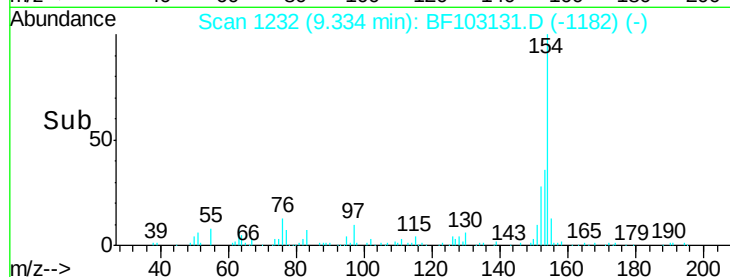
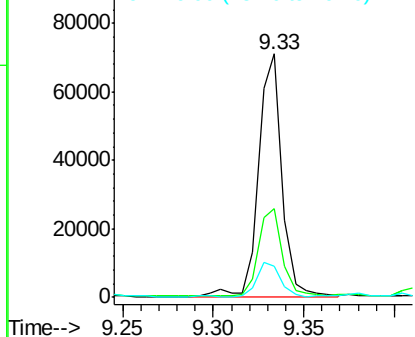
Tot Ion:	154	Resp:	64568
Ion Ratio	Lower	Upper	
154	100		
153	36.2	21.3	61.3
76	12.9	0.0	34.0

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



#48

Acenaphthylene

Concen: 10.377 ng

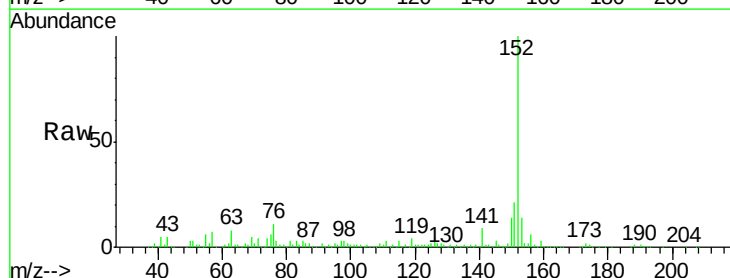
RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

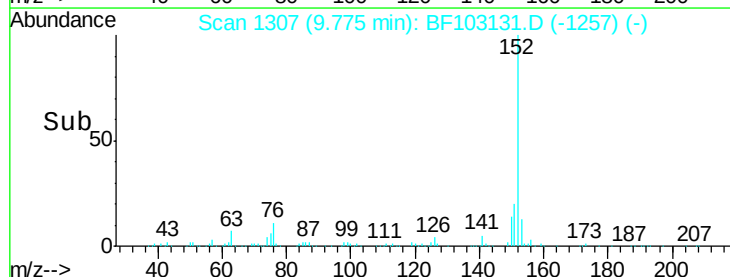
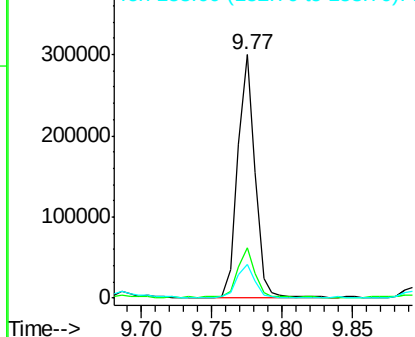
Lab File: BF103131.D

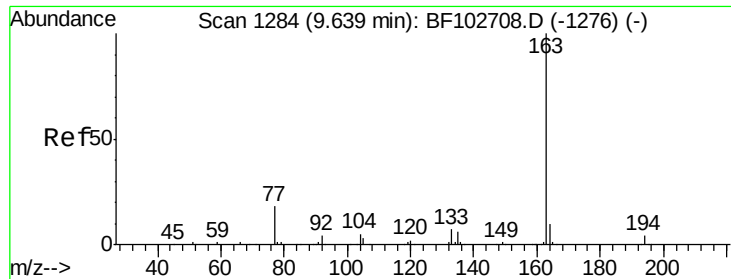
Acq: 21 Feb 2018 12:57

Tgt Ion:	152	Resp:	254020
Ion Ratio	Lower	Upper	
152	100		
151	20.8	16.3	24.5
153	13.8	10.7	16.1



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





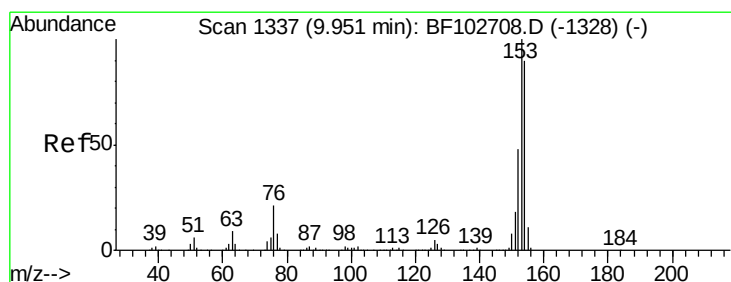
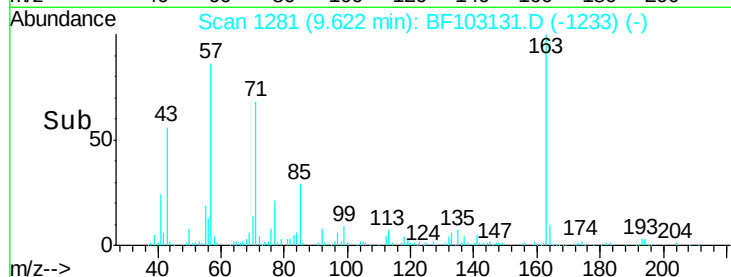
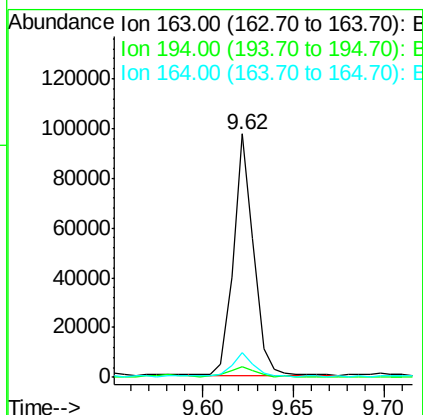
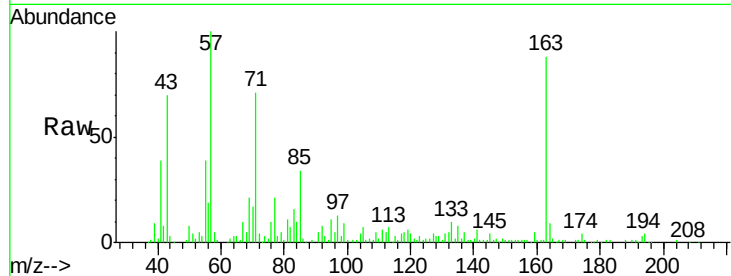
#49
Dimethylphthalate
Concen: 4.049 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.02 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Instrument :
BNA_F
ClientSampleId :
SU-04-022018

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.2	2.7	4.1#
164	10.4	8.2	12.2

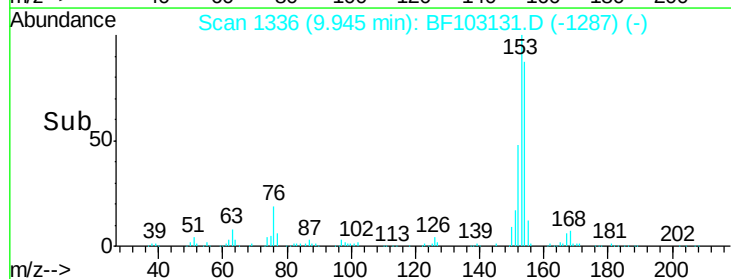
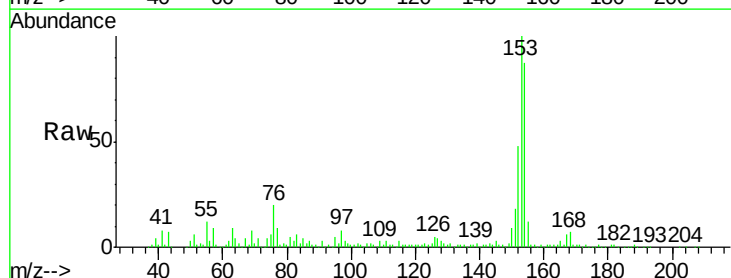
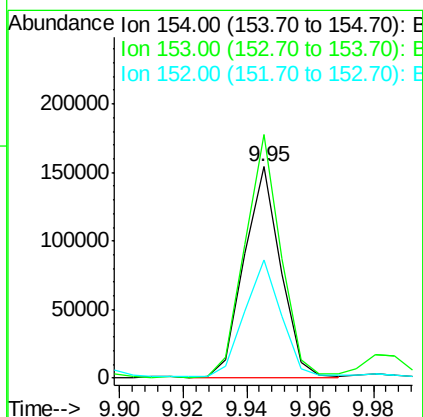
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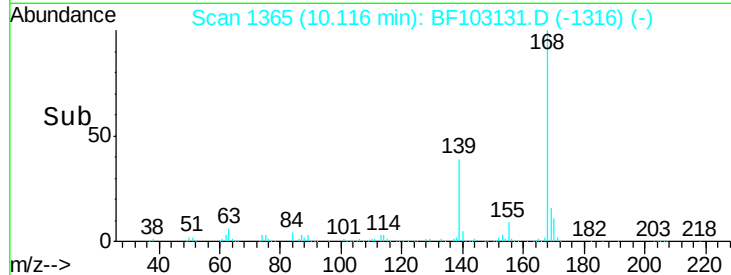
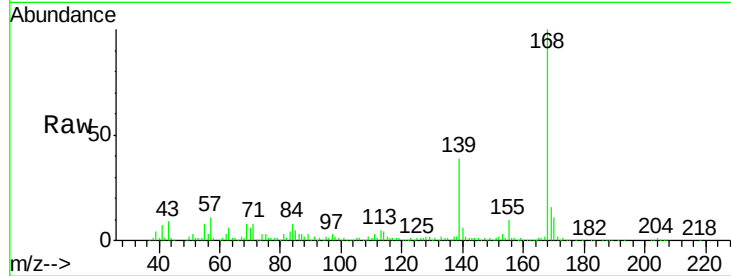
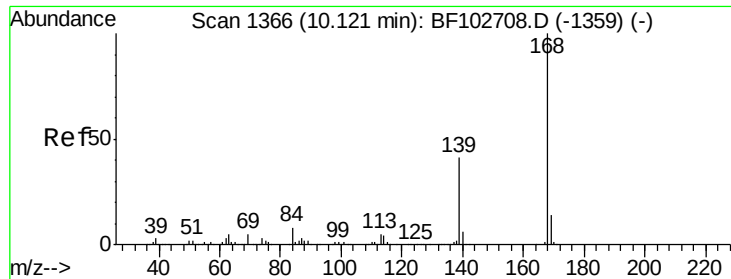
Sohil
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#51
Acenaphthene
Concen: 8.293 ng
RT: 9.95 min Scan# 1336
Delta R.T. -0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.3	91.2	136.8
152	55.8	43.8	65.8





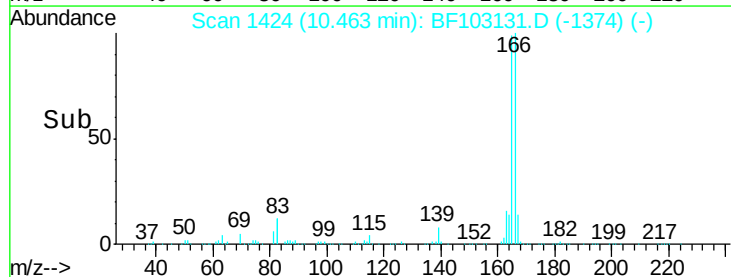
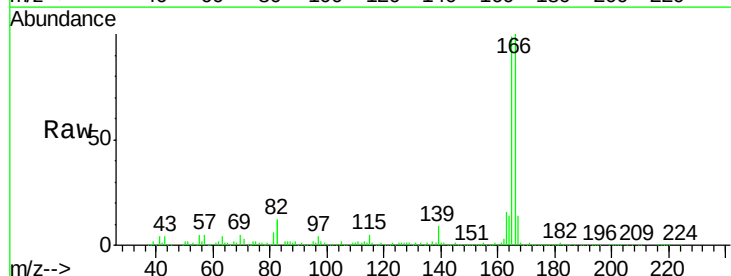
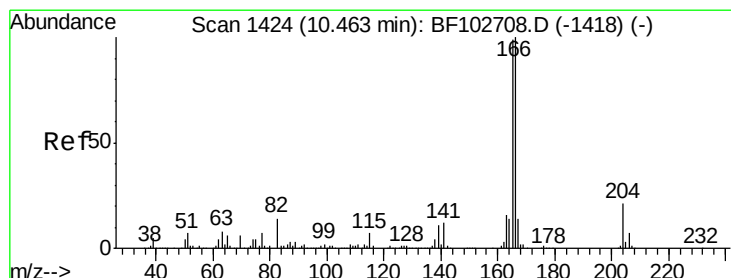
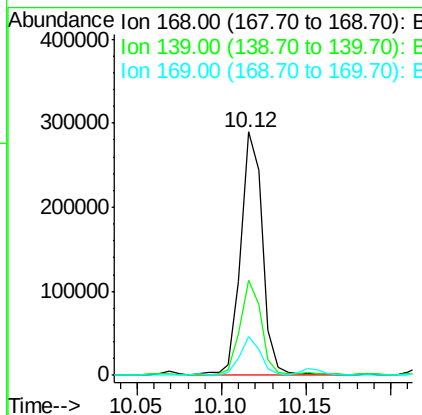
#54
Dibenzofuran
Concen: 12.449 ng
RT: 10.12 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Instrument :
BNA_F
ClientSampleId :
SU-04-022018

Tot Ion	Ratio	Resp	Lower	Upper
168	100	256829		
139	38.9		30.1	45.1
169	15.9		10.9	16.3

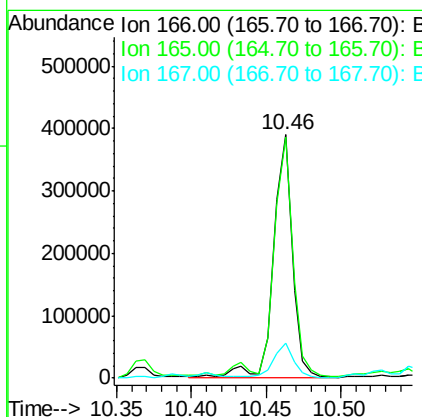
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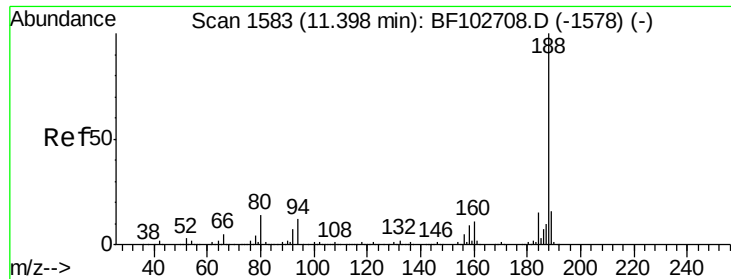
Sohil
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#57
Fluorene
Concen: 22.655 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	340067		
165	99.2		79.8	119.8
167	14.1		10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

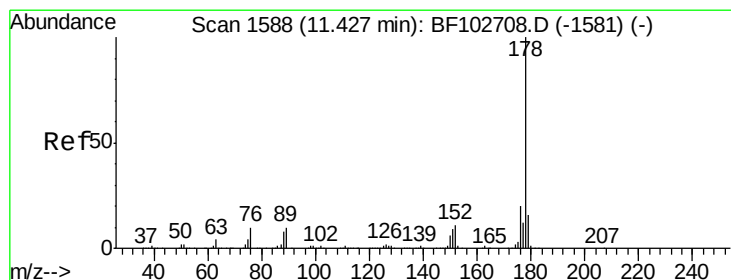
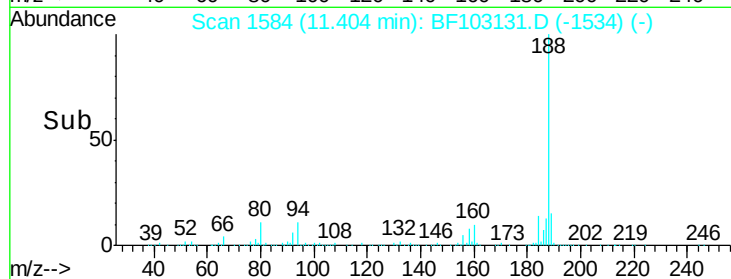
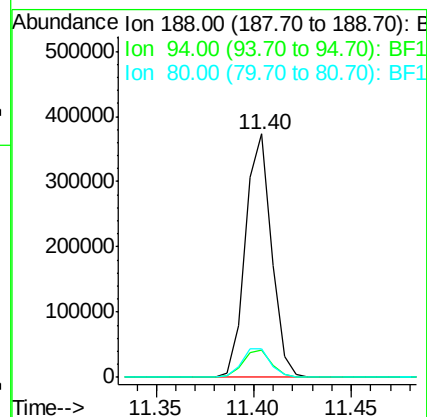
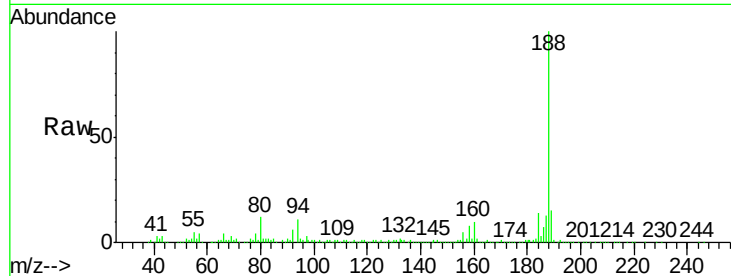
ClientSampleId :

SU-04-022018

Tot Ion:	188	Resp:	344350
Ion Ratio	Lower	Upper	
188	100		
94	11.4	8.5	12.7
80	11.7	9.2	13.8

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#70

Phenanthrene

Concen: 65.763 ng

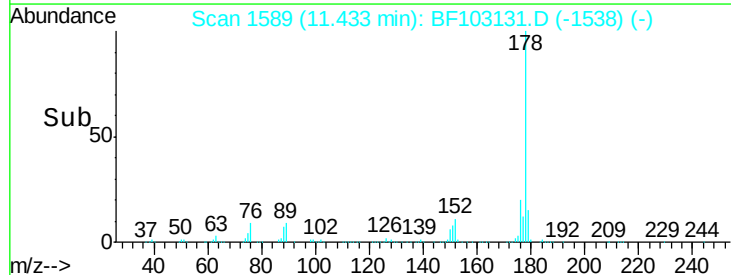
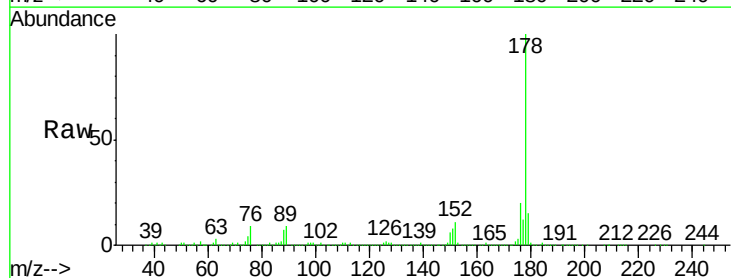
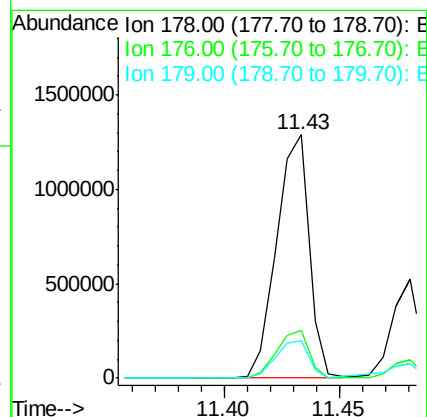
RT: 11.43 min Scan# 1589

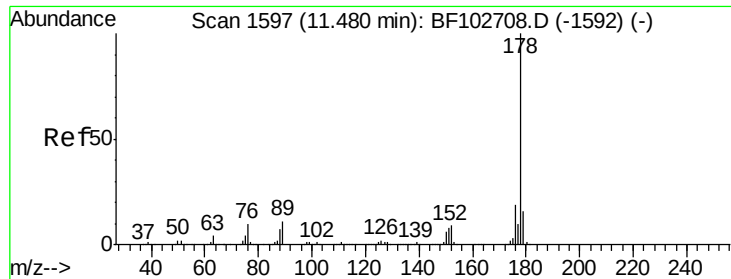
Delta R.T. 0.00 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Tgt Ion:	178	Resp:	1261213
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.8	23.8
179	15.4	13.0	19.6





#71

Anthracene

Concen: 21.441 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

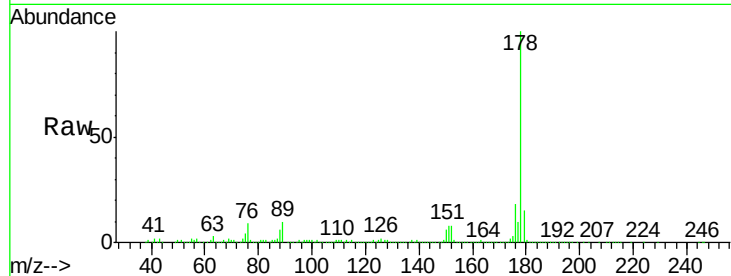
ClientSampleId :

SU-04-022018

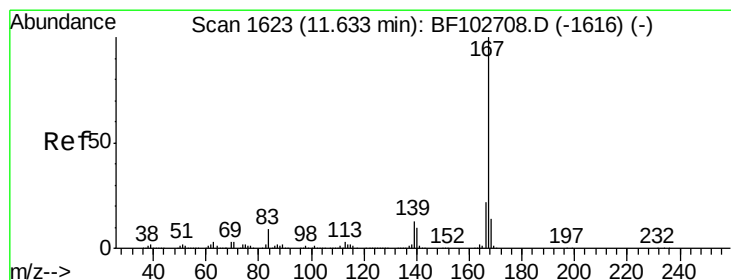
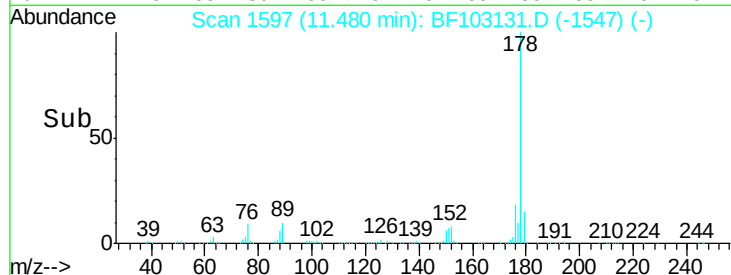
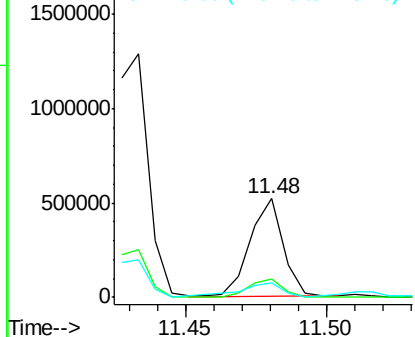
Tot Ion:	178	Resp:	418234
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.4	23.2
179	14.9	12.6	19.0

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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: 6.785 ng

RT: 11.63 min Scan# 1623

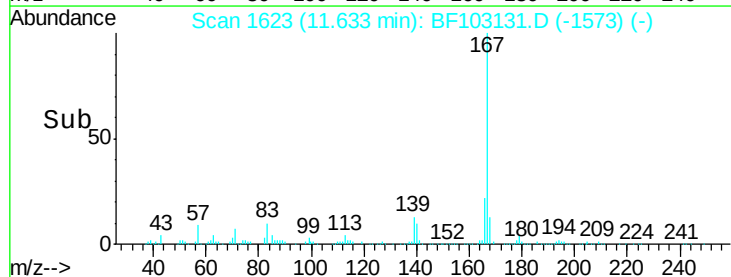
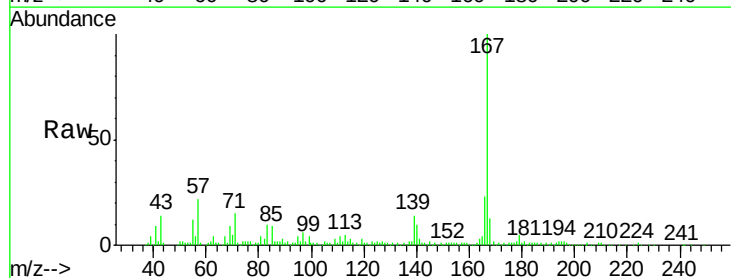
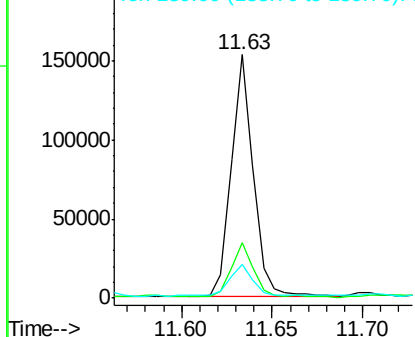
Delta R.T. -0.01 min

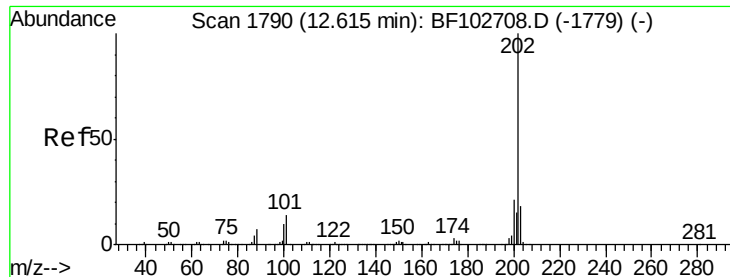
Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Tgt Ion:	167	Resp:	129653
Ion Ratio	Lower	Upper	
167	100		
166	22.7	17.6	26.4
139	13.9	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: 55.913 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.00 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

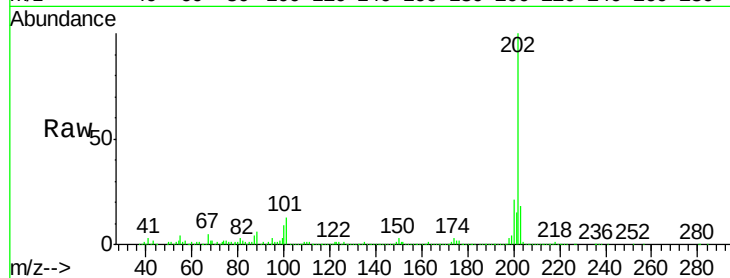
ClientSampleId :

SU-04-022018

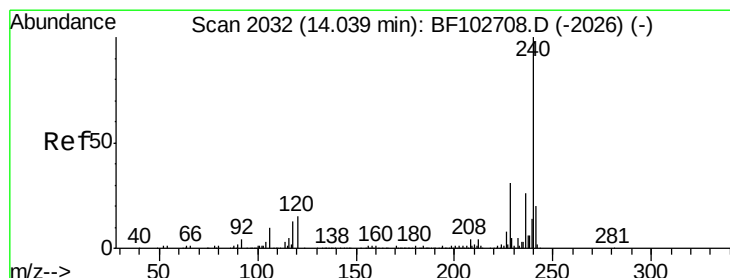
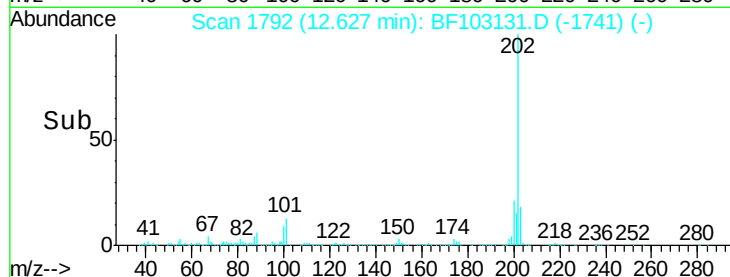
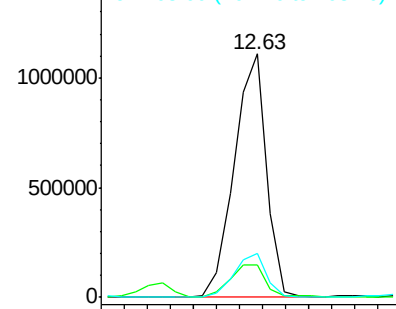
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	34.1
203	17.8	0.0	38.1

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

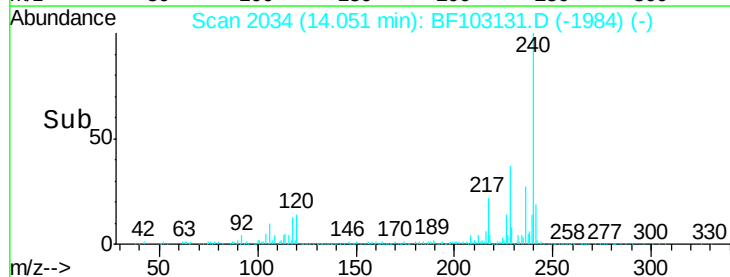
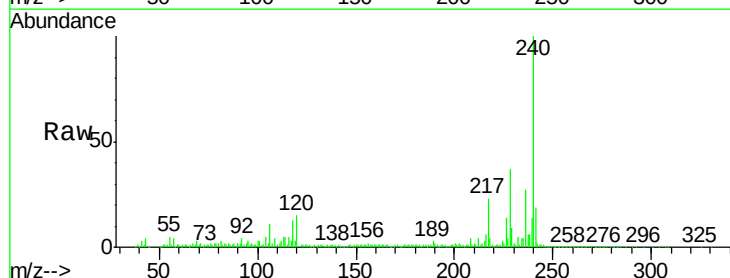
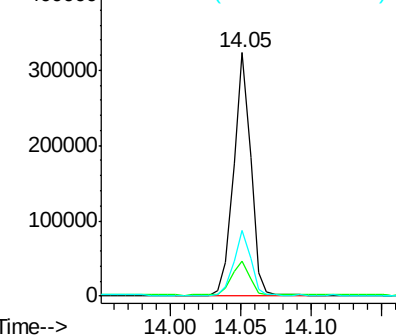
Delta R.T. -0.01 min

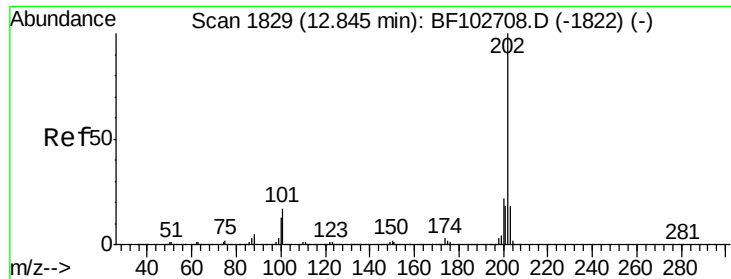
Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.5	9.5	14.3#
236	26.9	20.7	31.1

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

Pvrene

Concen: 44.473 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.00 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

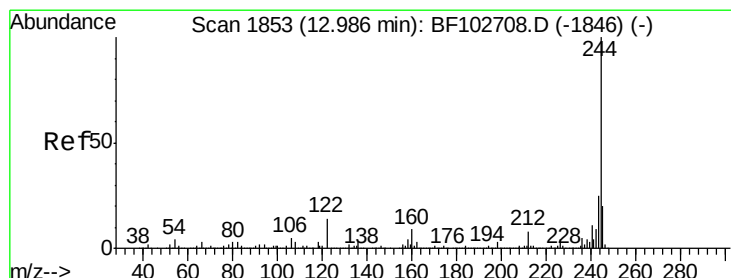
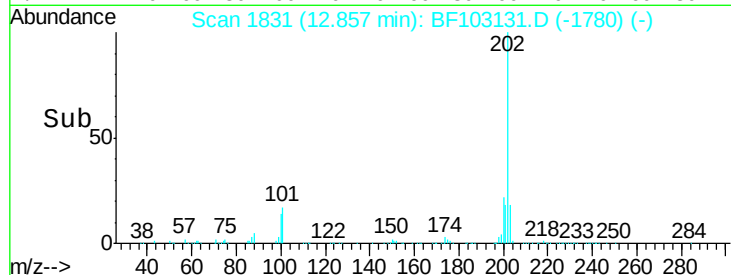
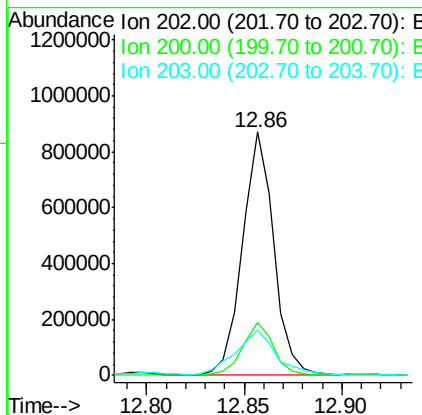
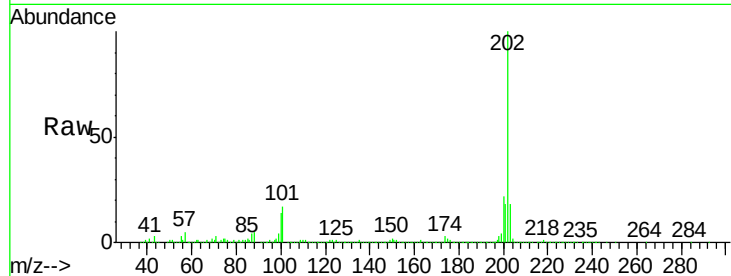
ClientSampleId :

SU-04-022018

Tot Ion:	202	Resp:	959836
Ion Ratio		Lower	Upper
202	100		
200	21.9	17.4	26.2
203	18.4	14.3	21.5

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#78

Terphenyl-d14

Concen: 52.932 ng

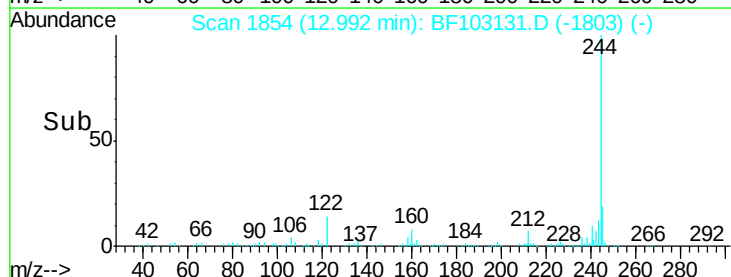
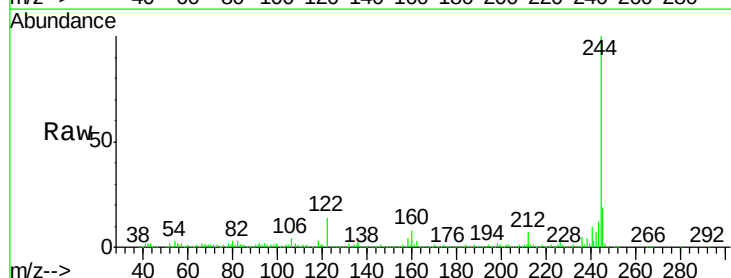
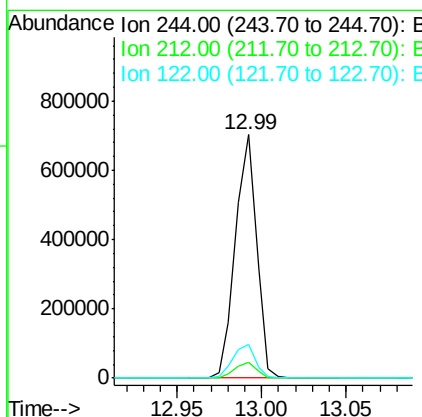
RT: 12.99 min Scan# 1854

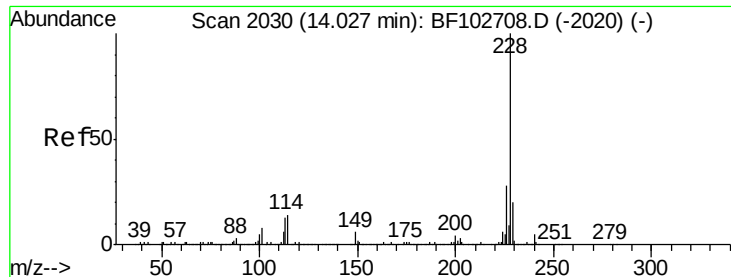
Delta R.T. 0.00 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Tgt Ion:	244	Resp:	615278
Ion Ratio		Lower	Upper
244	100		
212	6.7	5.4	8.0
122	14.0	11.0	16.4





#80

Benzo(a)anthracene

Concen: 31.806 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

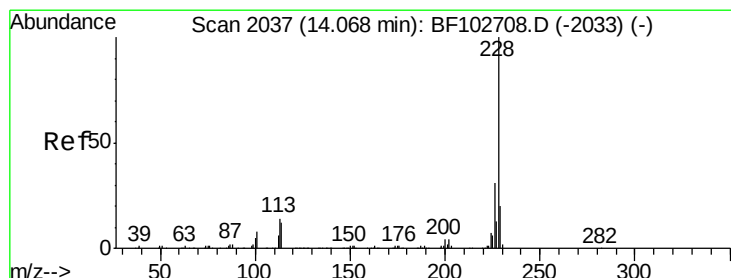
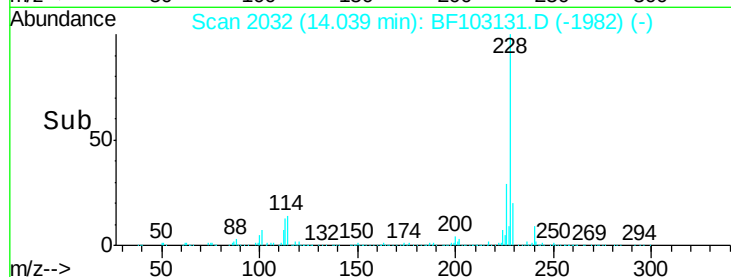
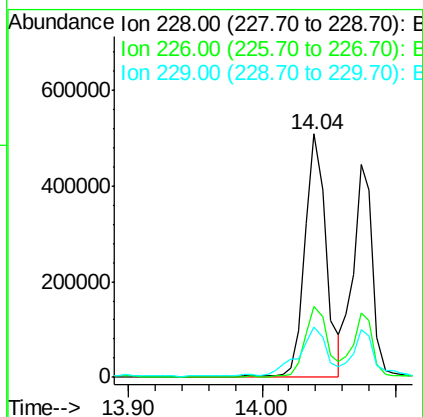
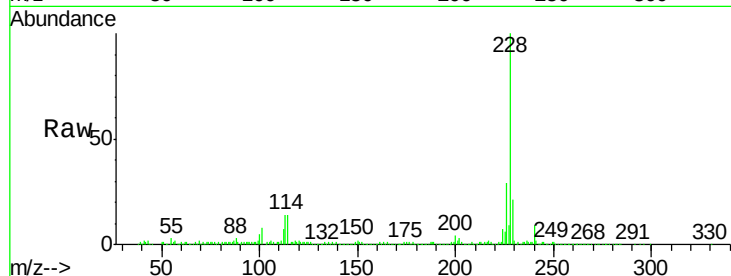
ClientSampleId :

SU-04-022018

Tot Ion:	228	Resp:	550540
Ion Ratio	Lower	Upper	
228	100		
226	29.3	22.6	33.8
229	20.8	15.8	23.6

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#82

Chrysene

Concen: 26.129 ng

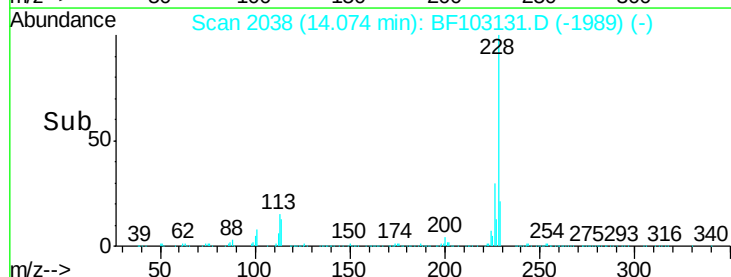
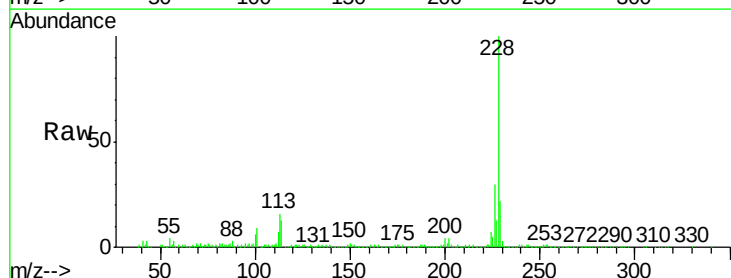
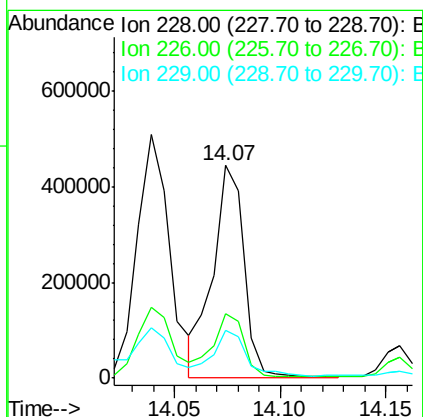
RT: 14.07 min Scan# 2038

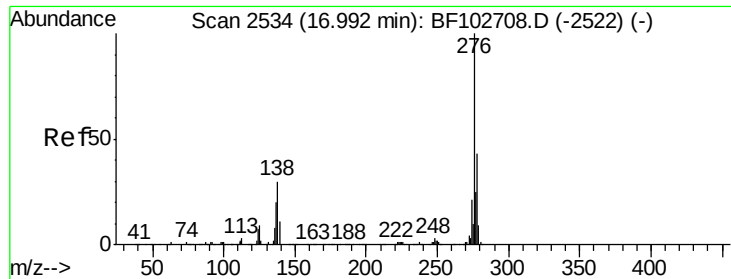
Delta R.T. -0.01 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Tgt Ion:	228	Resp:	455917
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.0	37.6
229	22.2	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 13.453 ng

RT: 17.06 min Scan# 2546

Delta R.T. 0.01 min

Lab File: BF103131.D

Acq: 21 Feb 2018 12:57

Instrument :

BNA_F

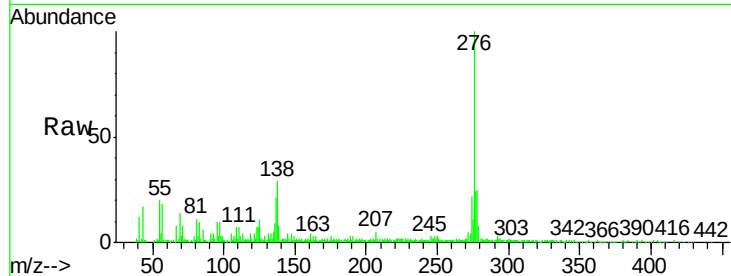
ClientSampled :

SU-04-022018

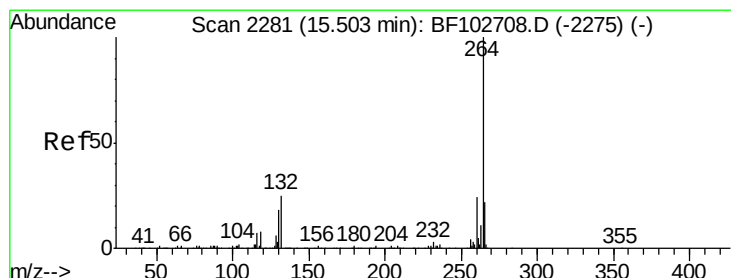
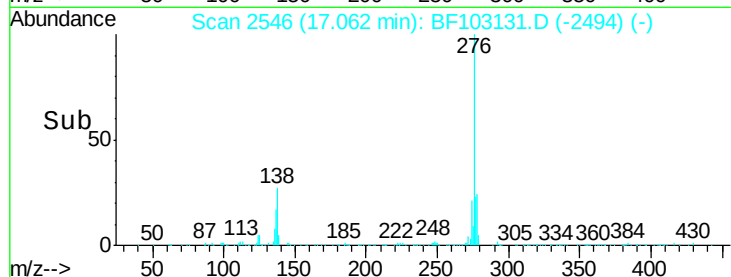
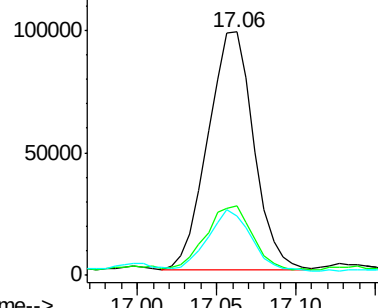
Tot Ion:	276	Resp:	194692
Ion Ratio	Lower	Upper	
276	100		
138	27.4	25.0	37.6
277	24.6	20.1	30.1

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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

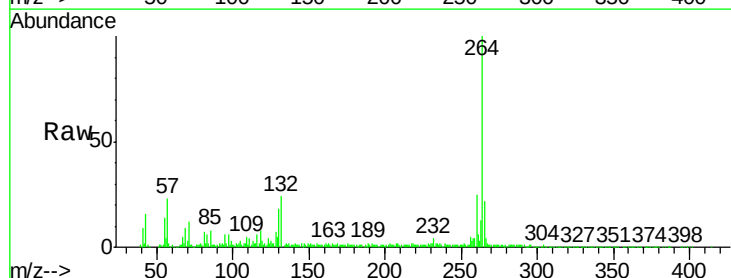
RT: 15.54 min Scan# 2288

Delta R.T. 0.00 min

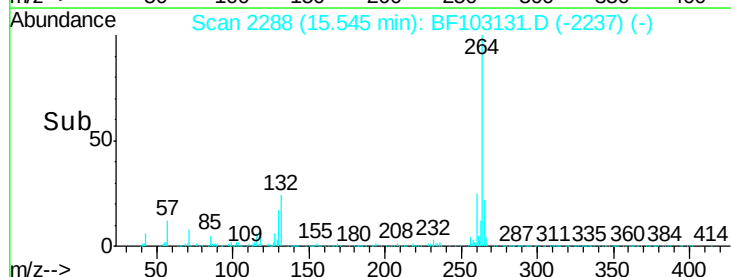
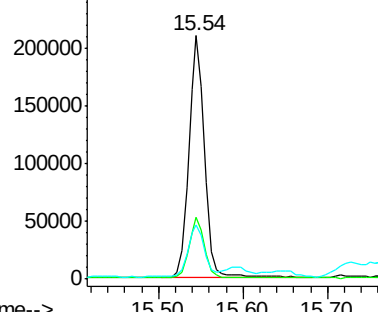
Lab File: BF103131.D

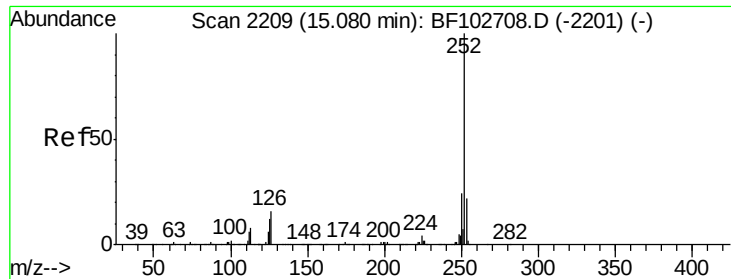
Acq: 21 Feb 2018 12:57

Tgt Ion:	264	Resp:	278153
Ion Ratio	Lower	Upper	
264	100		
260	25.2	19.2	28.8
265	22.4	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





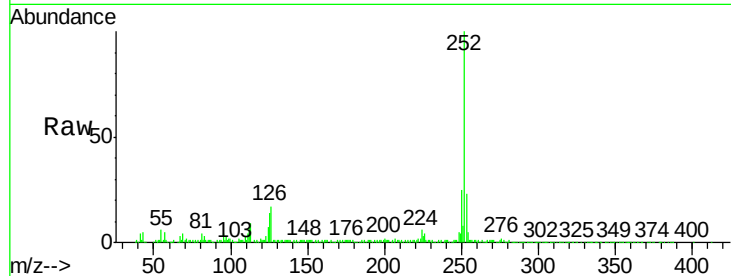
#87
Benzo(b)fluoranthene
Concen: 33.286 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.00 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Instrument :
BNA_F
ClientSampleId :
SU-04-022018

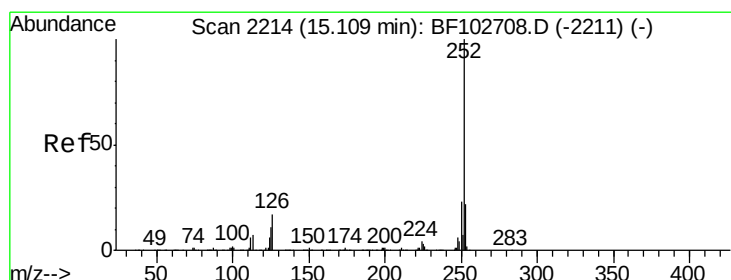
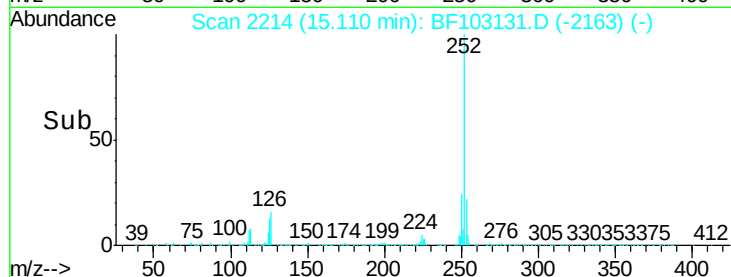
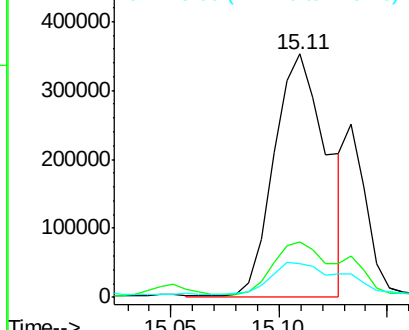
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	14.1	9.0	13.6

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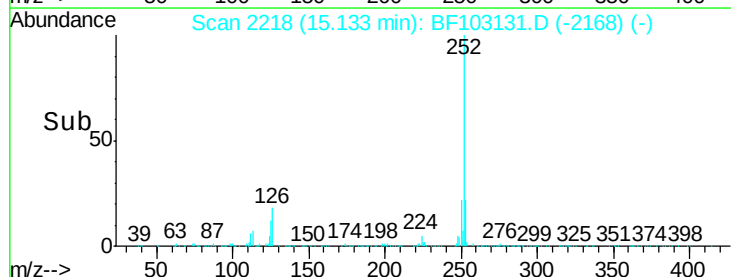
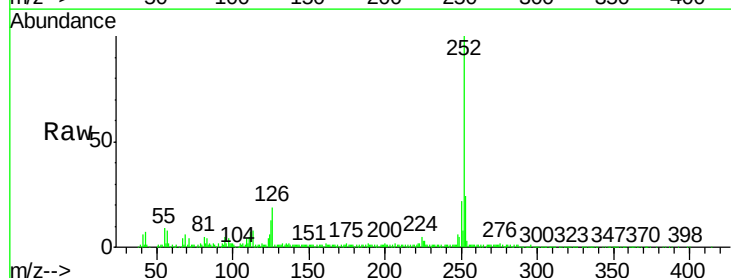
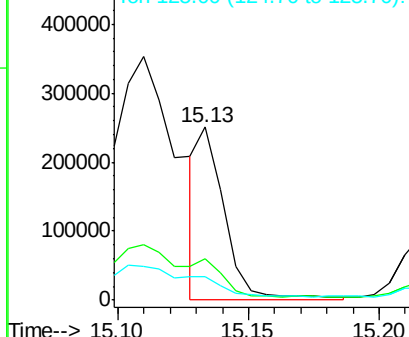
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

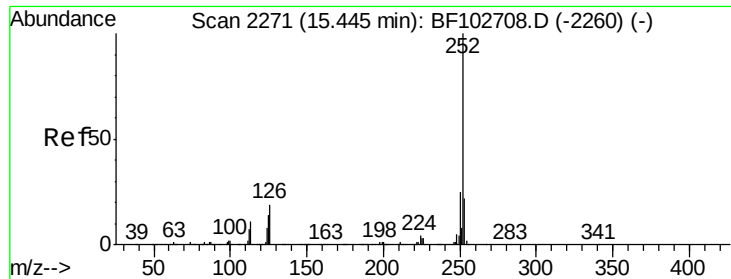


#88
Benzo(k)fluoranthene
Concen: 10.426 ng m
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	13.4	10.2	15.2

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





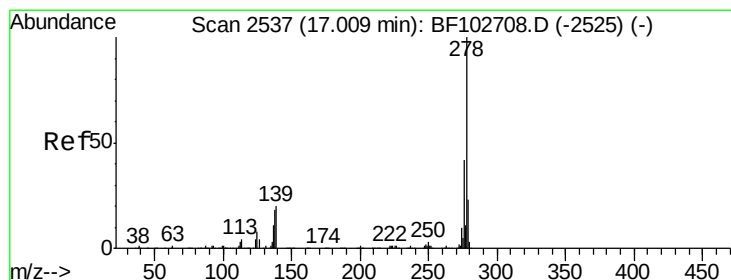
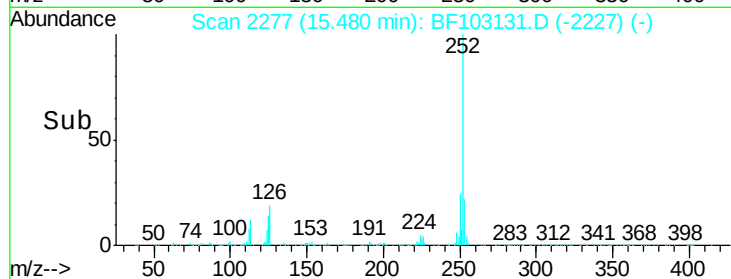
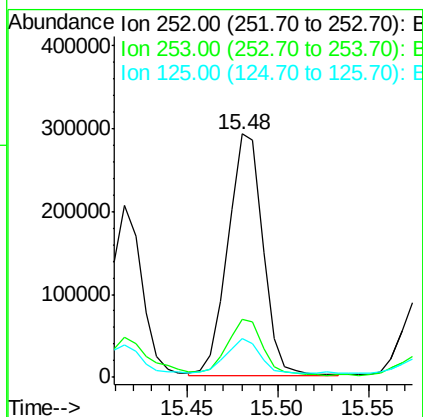
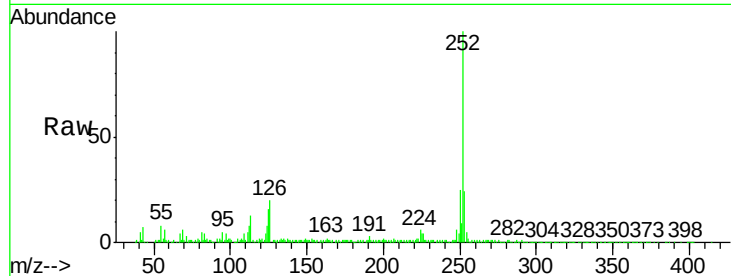
#89
Benzo(a)pyrene
Concen: 24.116 ng
RT: 15.48 min Scan# 2277
Delta R.T. -0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Instrument :
BNA_F
ClientSampleId :
SU-04-022018

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	15.8	9.8	14.6

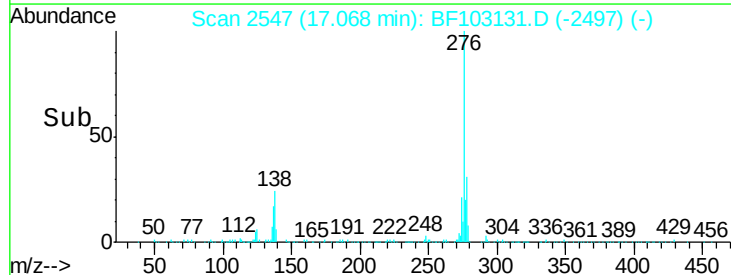
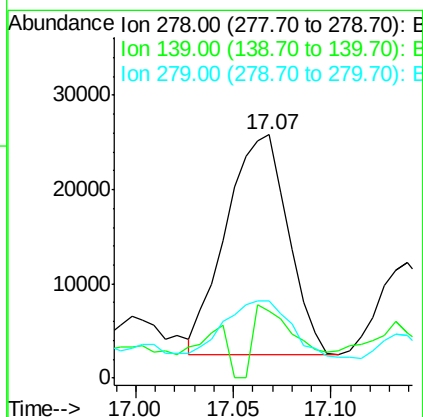
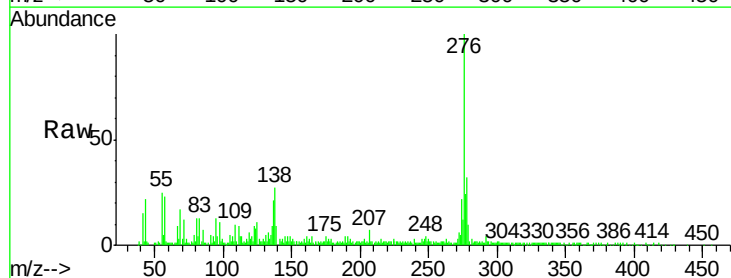
Manual Integrations
APPROVED

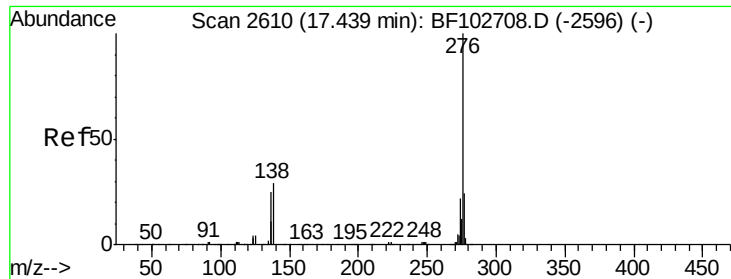
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2/22/2018 9:04:58 AM



#90
Dibenzo(a,h)anthracene
Concen: 3.875 ng
RT: 17.07 min Scan# 2547
Delta R.T. -0.01 min
Lab File: BF103131.D
Acq: 21 Feb 2018 12:57

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.6	15.9	23.9
279	31.5	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 13.252 ng
 RT: 17.52 min Scan# 2624
 Delta R.T. 0.00 min
 Lab File: BF103131.D
 Acq: 21 Feb 2018 12:57

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-022018

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.0	17.9	26.9
138	28.8	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 2/22/2018 9:04:58 AM

