

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
 Data File : BF107589.D
 Acq On : 23 Jul 2018 15:45
 Operator : JU/SJ
 Sample : J3827-03 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-071918

Manual Integrations
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Quant Time: Jul 23 18:29:01 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	324814	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	1278797	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	518886	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	850668	20.00	ng	0.00
75) Chrysene-d12	14.17	240	668269	20.00	ng	0.00
86) Perylene-d12	15.71	264	654663	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	835398	41.35	ng	0.00
7) Phenol-d6	6.60	99	1100375	45.36	ng	-0.01
23) Nitrobenzene-d5	7.54	82	684294	36.11	ng	-0.01
41) 2,4,6-Tribromophenol	10.81	330	255581	43.31	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	1319039	36.09	ng	0.00
78) Terphenyl-d14	13.10	244	1024869	39.26	ng	0.00
Target Compounds						
48) Acenaphthylene	9.88	152	286183	5.514	ng	99
49) Dimethylphthalate	9.72	163	87617	2.240	ng	# 97
51) Acenaphthene	10.05	154	157963	4.858	ng	95
54) Dibenzofuran	10.22	168	138160	2.886	ng	96
57) Fluorene	10.57	166	210581	6.166	ng	94
70) Phenanthrene	11.54	178	1683182	40.604	ng	98
71) Anthracene	11.59	178	916763	21.965	ng	99
72) Carbazole	11.75	167	94154	2.169	ng	97
74) Fluoranthene	12.74	202	3299207	74.169	ng	95
77) Pyrene	12.97	202	3217688	70.393	ng	# 93
80) Benzo(a)anthracene	14.16	228	1820234	46.480	ng	93
82) Chrysene	14.19	228	1728885m	45.958	ng	
85) Indeno(1,2,3-cd)pyrene	17.29	276	884246m	27.734	ng	
87) Benzo(b)fluoranthene	15.26	252	2183246m	60.935	ng	
88) Benzo(k)fluoranthene	15.28	252	910107m	25.927	ng	
89) Benzo(a)pyrene	15.65	252	1707742	52.107	ng	96
90) Dibenzo(a,h)anthracene	17.31	278	212297m	7.494	ng	
91) Benzo(g,h,i)perylene	17.78	276	960275	34.363	ng	94

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

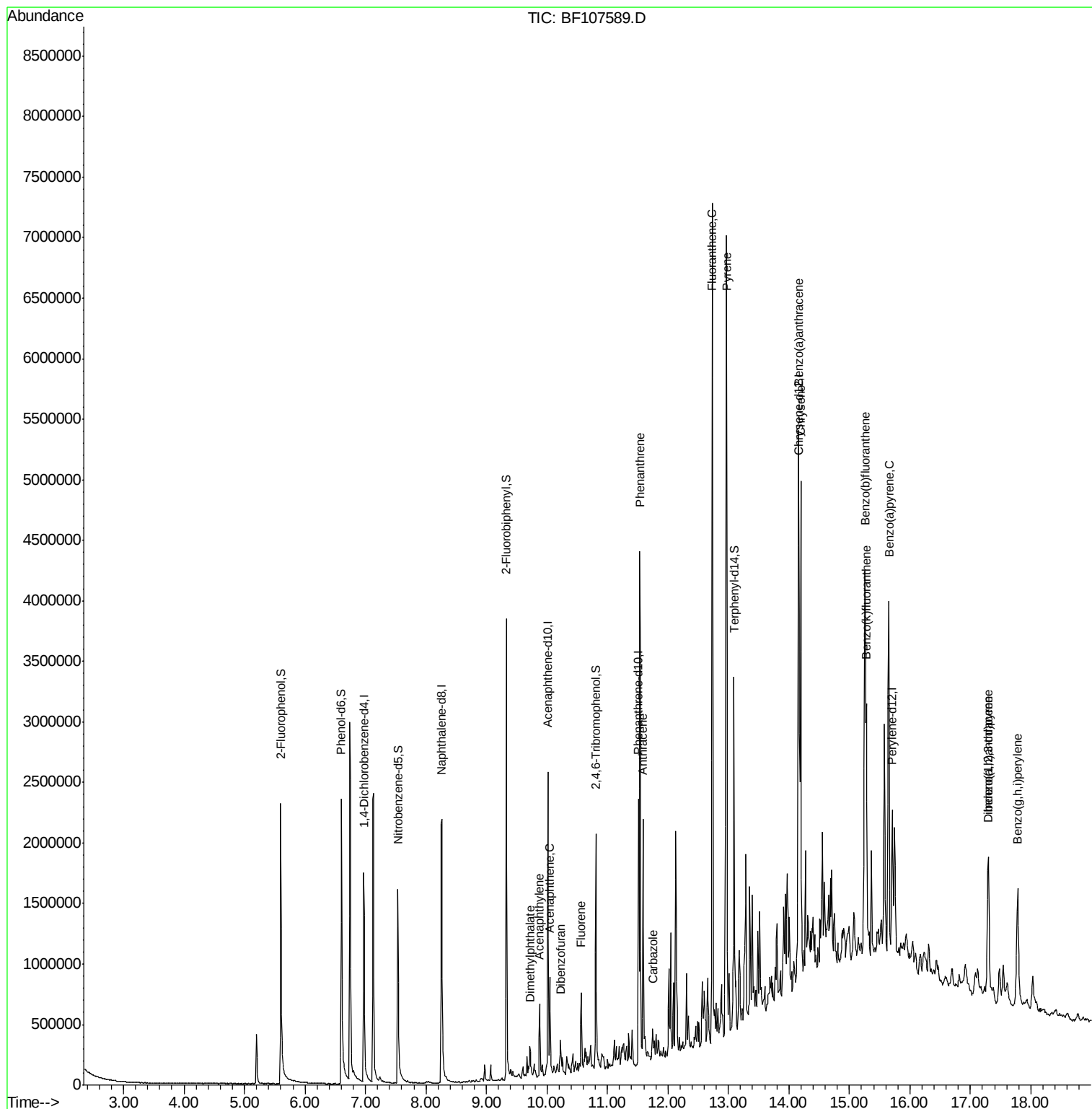
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
Data File : BF107589.D
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Misc :
ALS Vial : 11 Sample Multiplier: 1

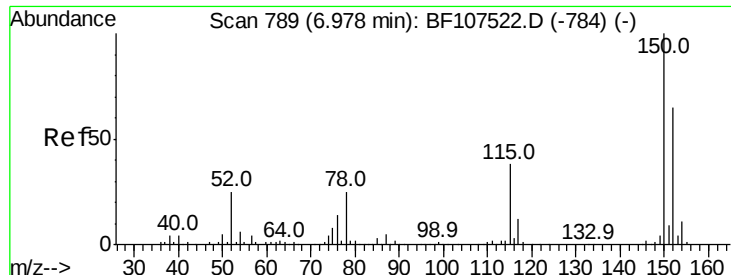
Instrument :
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ClientSampleId :
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Quant Time: Jul 23 18:29:01 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

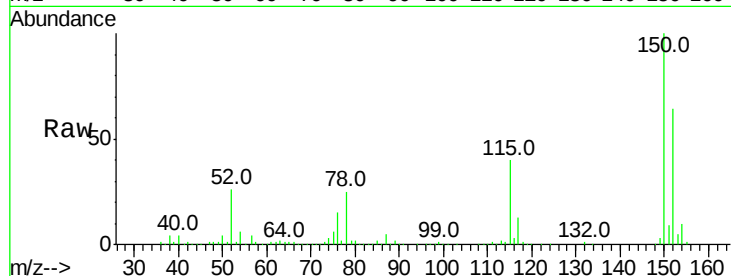
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Instrument :
BNA_F
ClientSampleId :
OR-01-071918

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	62.4	50.1	75.1

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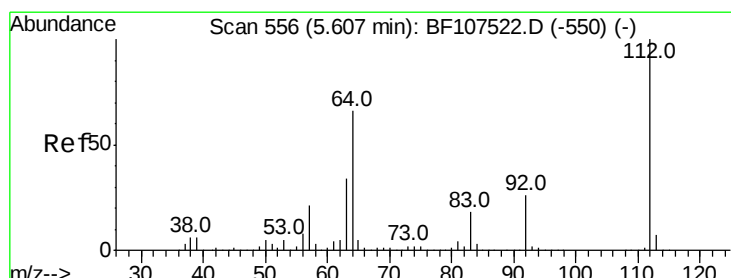
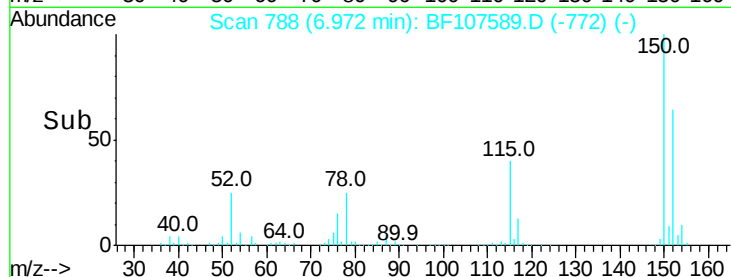
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

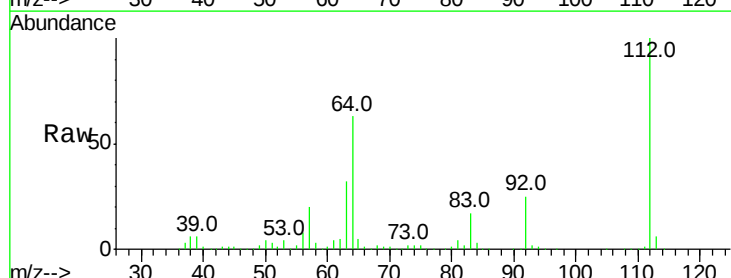
Time-->



#5

2-Fluorophenol
Concen: 41.352 ng
RT: 5.60 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.6	47.9	71.9
63	32.3	23.7	35.5



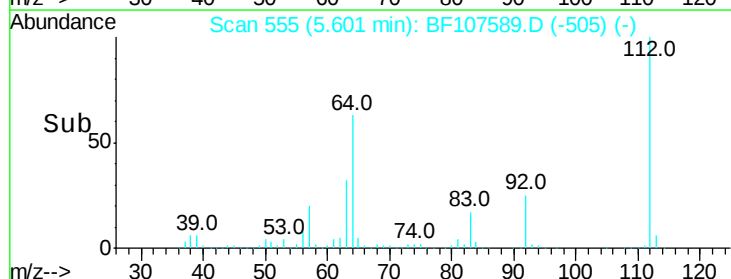
Abundance

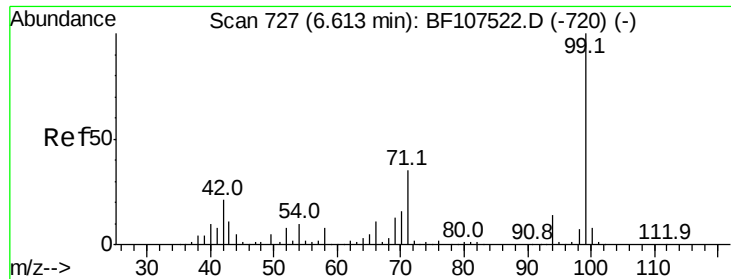
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 45.362 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

ClientSampled :

OR-01-071918

Tot Ion: 99 Resp: 1100375

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

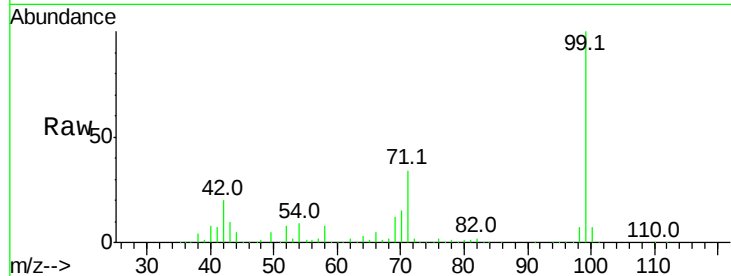
71 34.4 25.4 38.0

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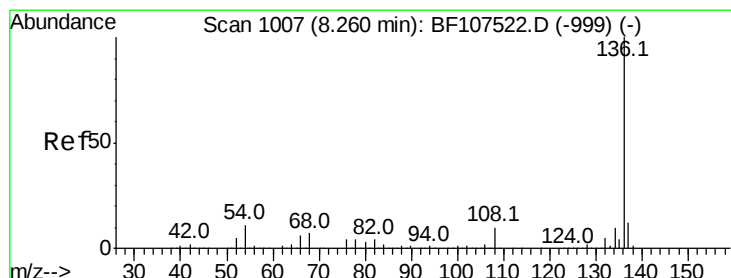
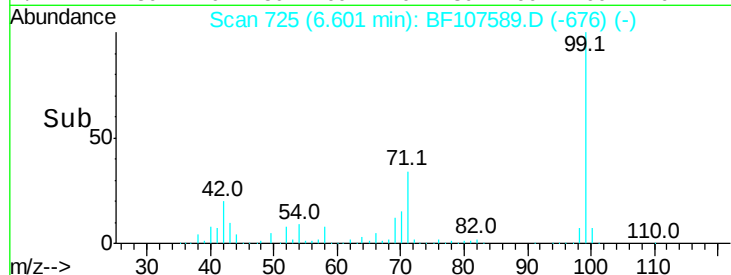
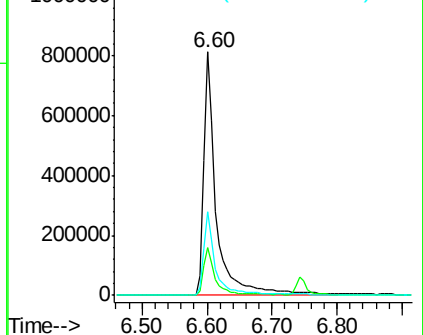
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.26 min Scan# 1007

Delta R.T. 0.00 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Tgt Ion:136 Resp: 1278797

Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.5 6.6 9.8

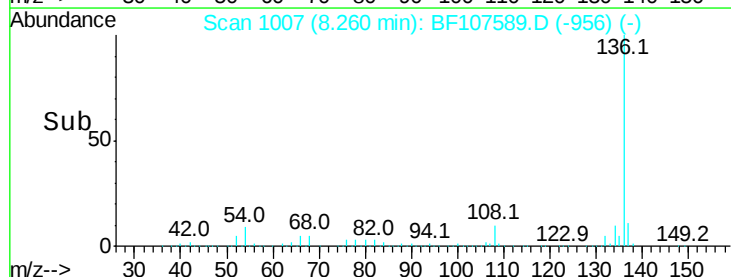
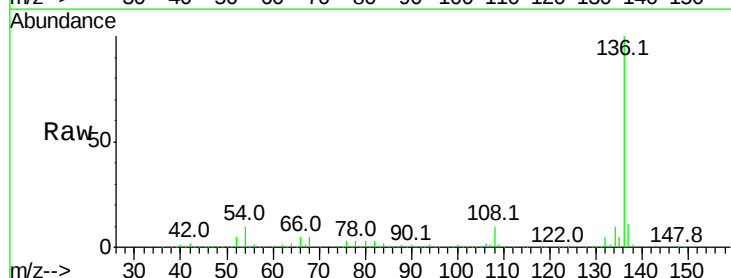
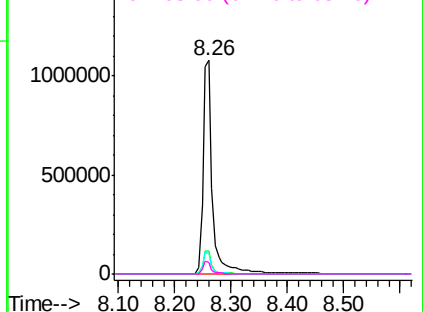
68 5.4 5.0 7.4

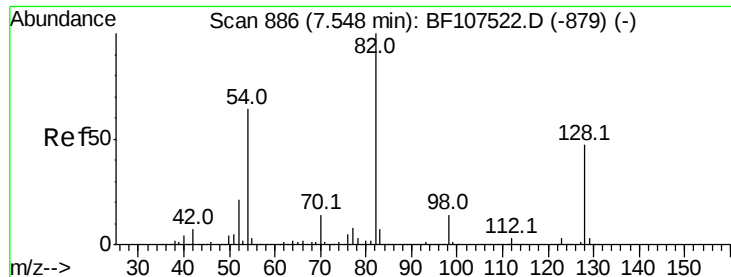
Abundance Ion 136.00 (135.70 to 136.70): E

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





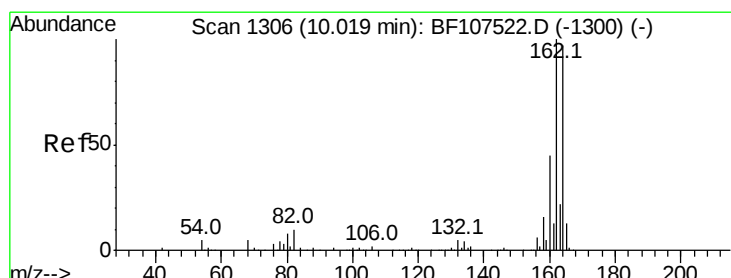
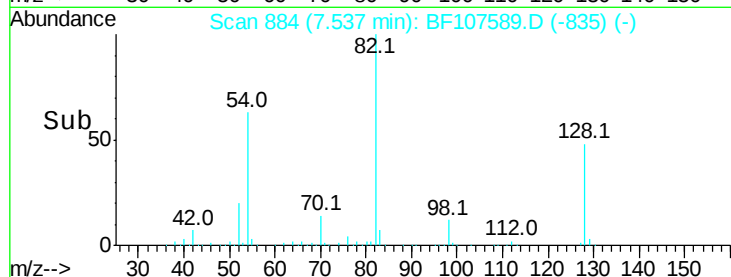
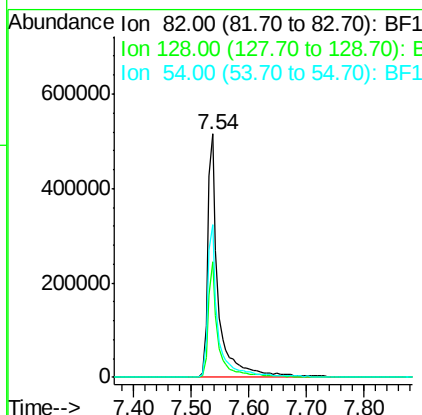
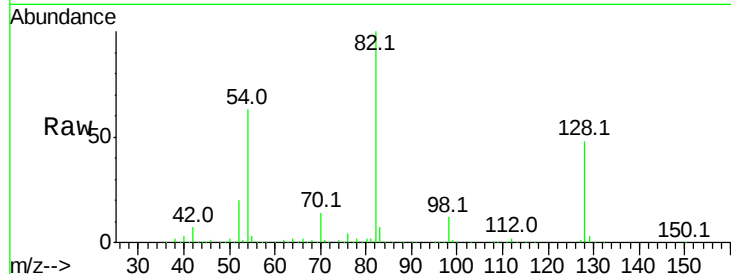
#23
 Nitrobenzene-d5
 Concen: 36.113 ng
 RT: 7.54 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BF107589.D
 Acq: 23 Jul 2018 15:45

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-071918

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.6	36.1	54.1
54	62.8	41.4	62.2#

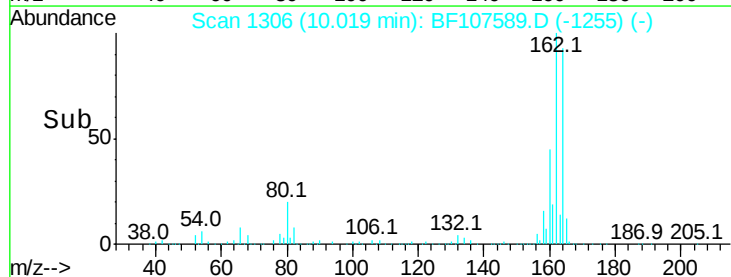
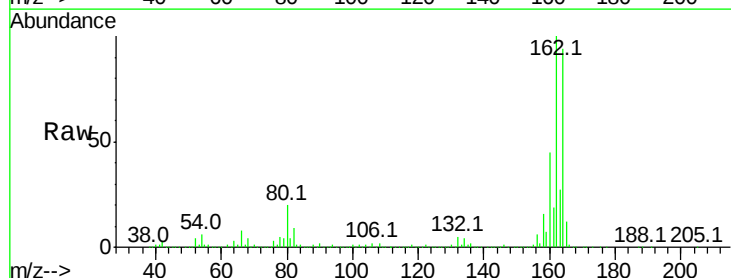
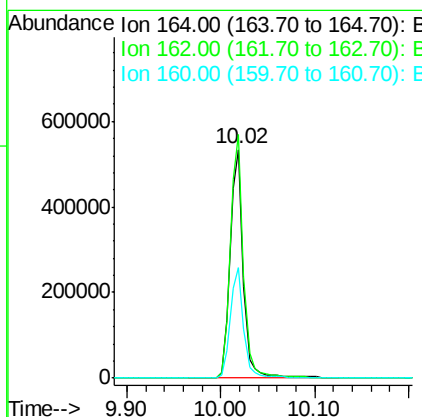
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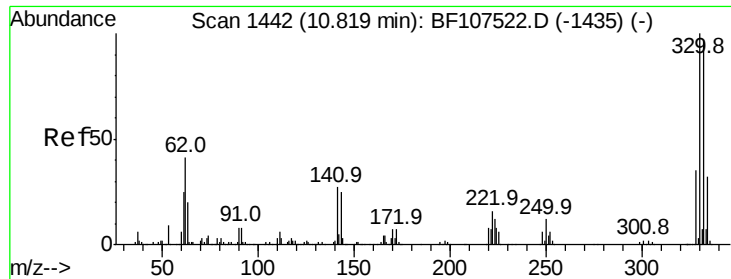
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.02 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: BF107589.D
 Acq: 23 Jul 2018 15:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.5	86.1	129.1
160	48.2	38.3	57.5





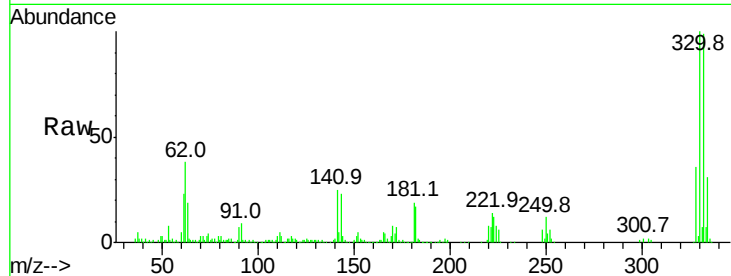
#41
 2,4,6-Tribromophenol
 Concen: 43.315 ng
 RT: 10.81 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF107589.D
 Acq: 23 Jul 2018 15:45

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-071918

Tot Ion	Ratio	Resp	Lower	Upper
330	100	255581		
332	99.1	77.0	115.6	
141	29.4	29.9	44.9#	

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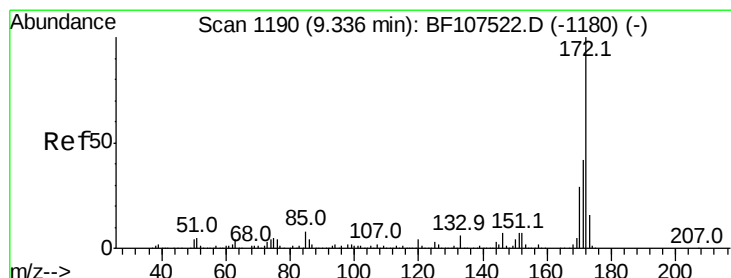
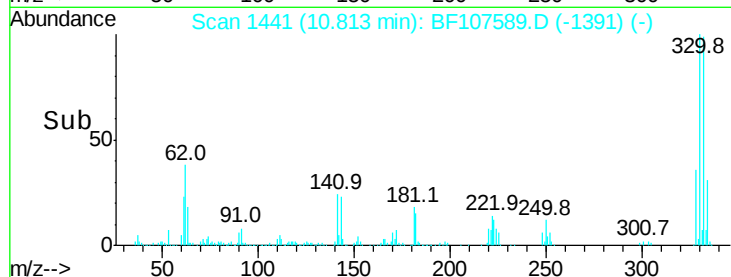
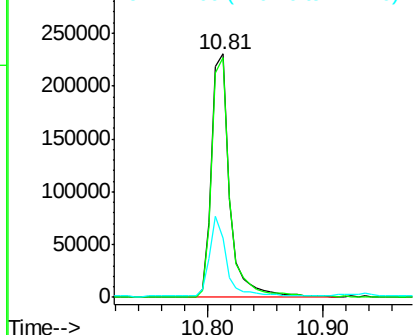


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 36.092 ng
 RT: 9.33 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF107589.D
 Acq: 23 Jul 2018 15:45

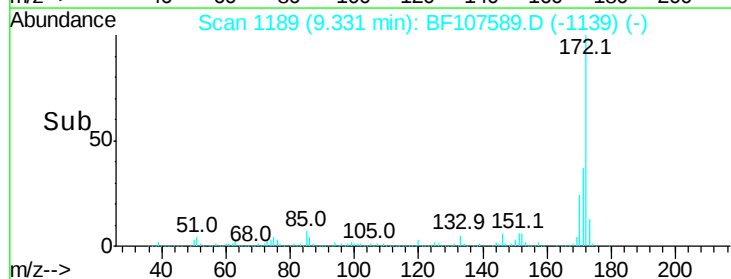
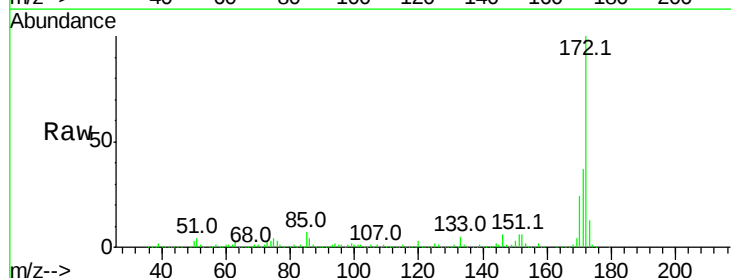
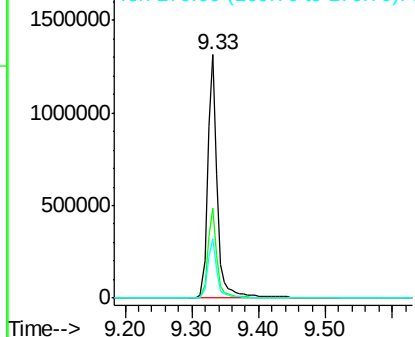
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1319039		
171	36.8	29.7	44.5	
170	24.2	19.6	29.4	

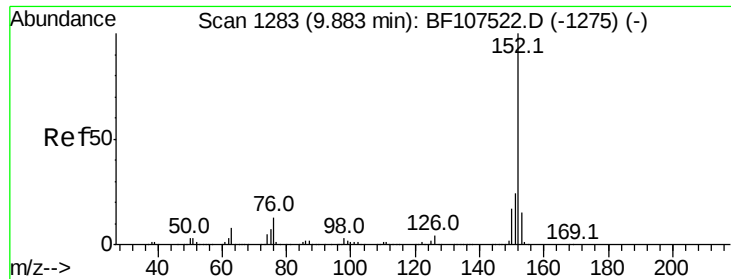
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 5.514 ng

RT: 9.88 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

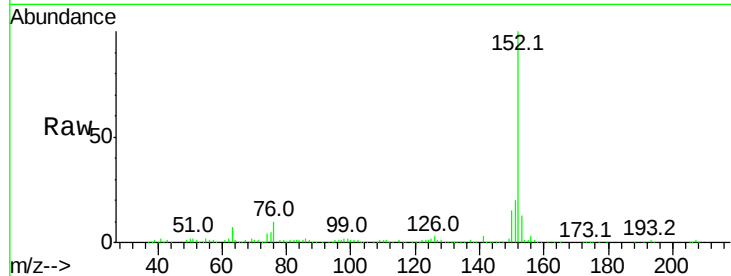
OR-01-071918

Tot Ion:	152	Resp:	286183
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.3	24.5
153	13.1	10.7	16.1

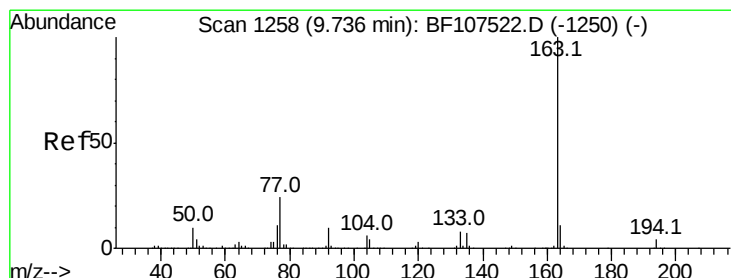
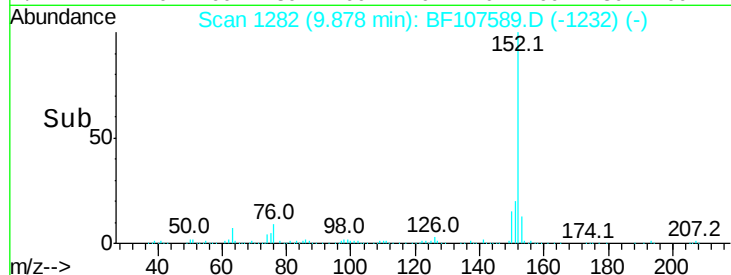
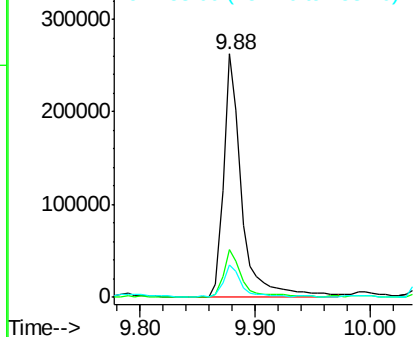
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.240 ng

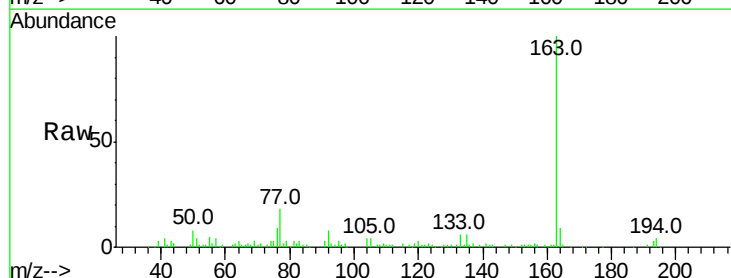
RT: 9.72 min Scan# 1256

Delta R.T. -0.01 min

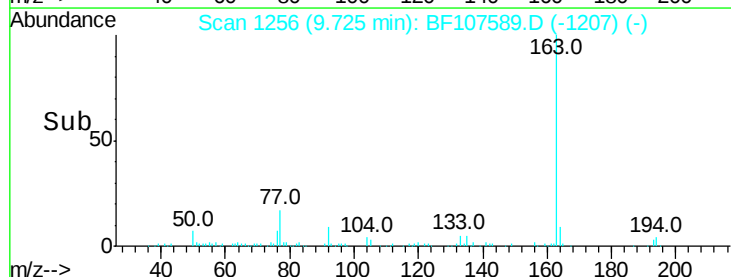
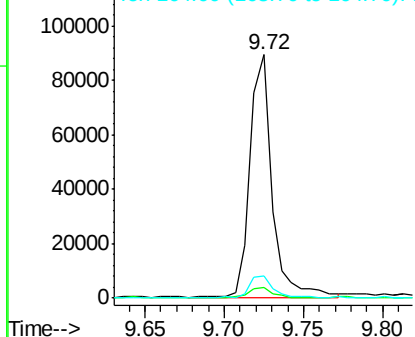
Lab File: BF107589.D

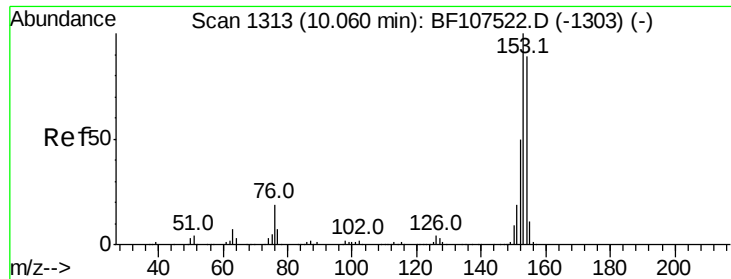
Acq: 23 Jul 2018 15:45

Tgt Ion:	163	Resp:	87617
Ion Ratio	Lower	Upper	
163	100		
194	4.5	2.7	4.1#
164	9.2	8.2	12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





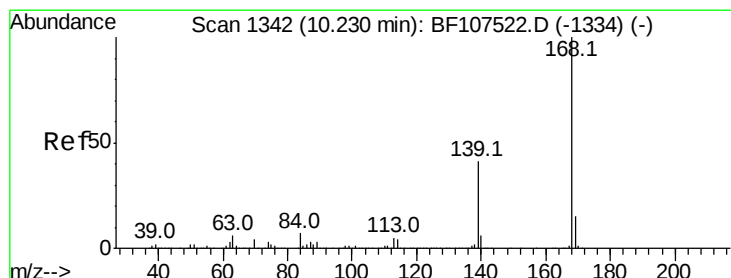
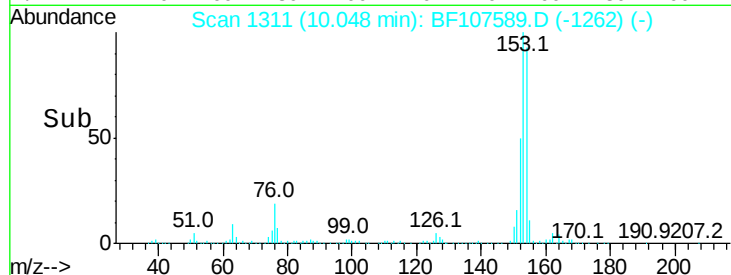
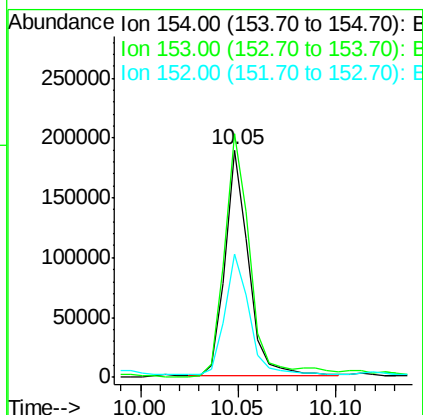
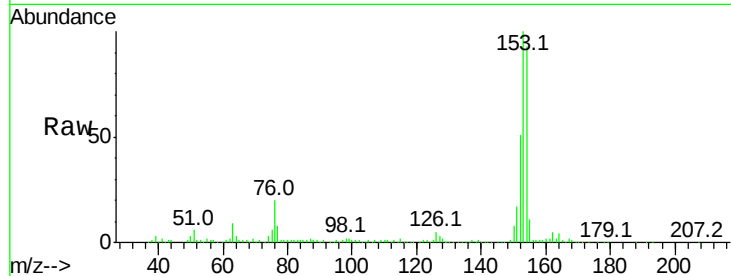
#51
Acenaphthene
Concen: 4.858 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Instrument :
BNA_F
ClientSampleId :
OR-01-071918

Tot Ion	Ratio	Lower	Upper
154	100		
153	107.1	91.2	136.8
152	54.2	43.8	65.8

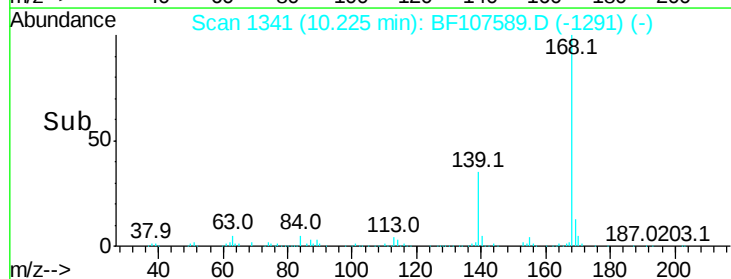
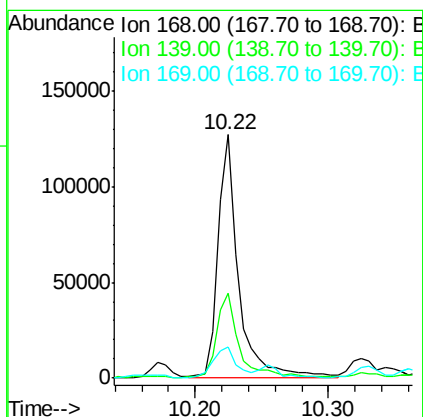
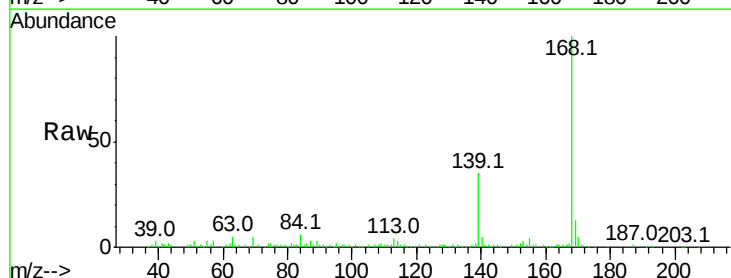
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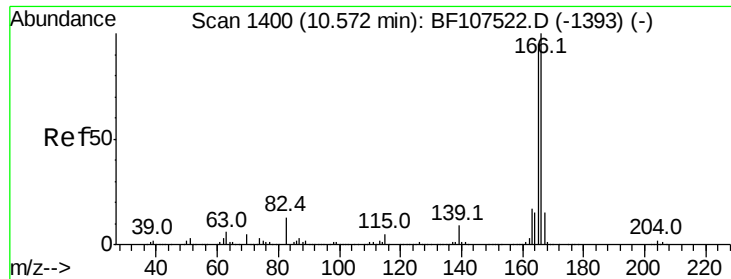
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#54
Dibenzofuran
Concen: 2.886 ng
RT: 10.22 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.6	30.1	45.1
169	12.9	10.9	16.3





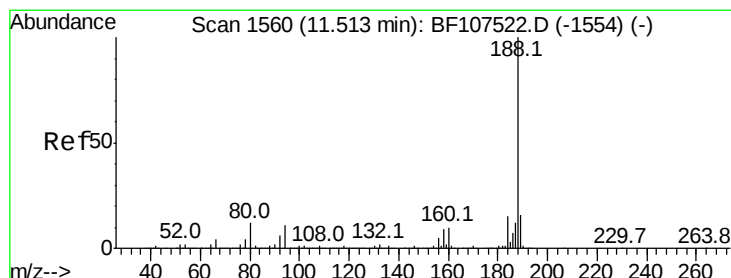
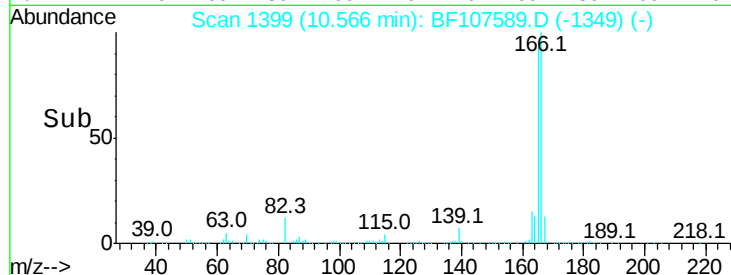
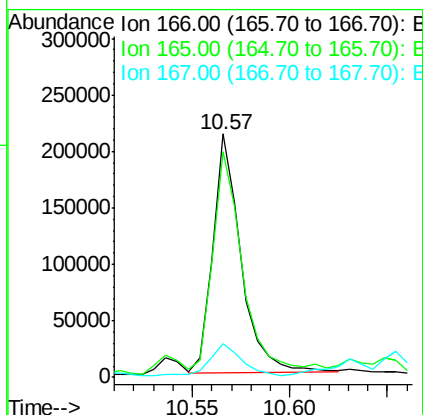
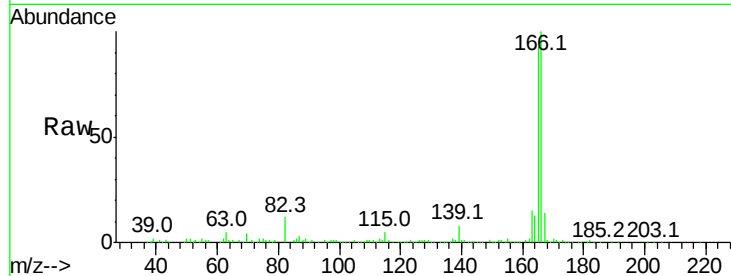
#57
 Fluorene
 Concen: 6.166 ng
 RT: 10.57 min Scan# 1399
 Delta R.T. -0.01 min
 Lab File: BF107589.D
 Acq: 23 Jul 2018 15:45

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-071918

Tot Ion	Ratio	Lower	Upper
166	100		
165	92.9	79.8	119.8
167	14.0	10.6	16.0

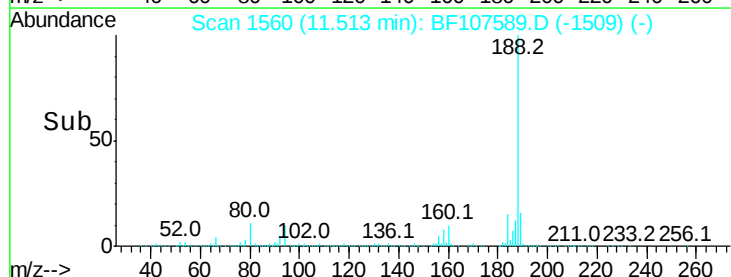
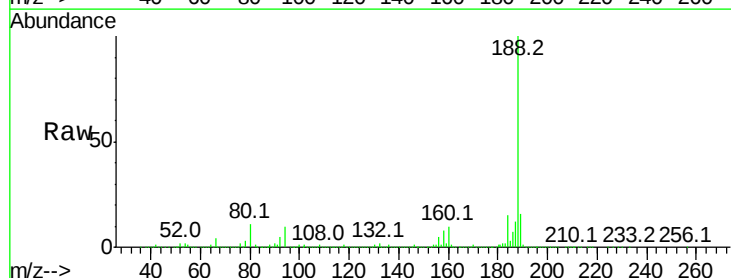
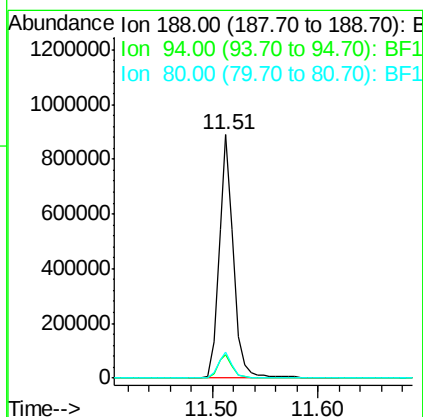
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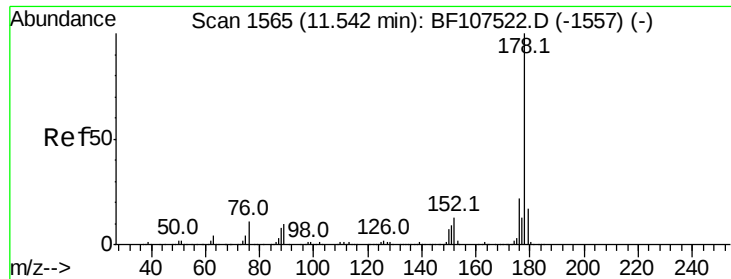
Sohil
 7/24/2018 5:26:05 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: BF107589.D
 Acq: 23 Jul 2018 15:45

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.5	12.7
80	10.8	9.2	13.8





#70

Phenanthrene

Concen: 40.604 ng

RT: 11.54 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

OR-01-071918

Tot Ion:178 Resp: 1683182

Ion Ratio Lower Upper

178 100

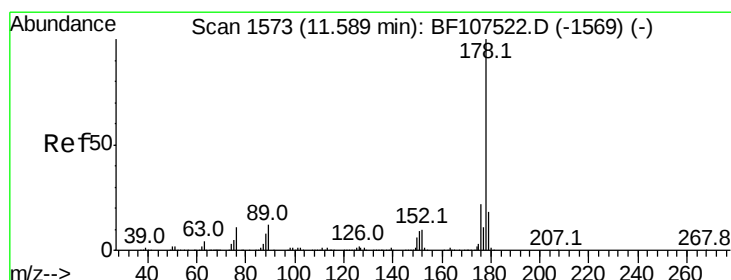
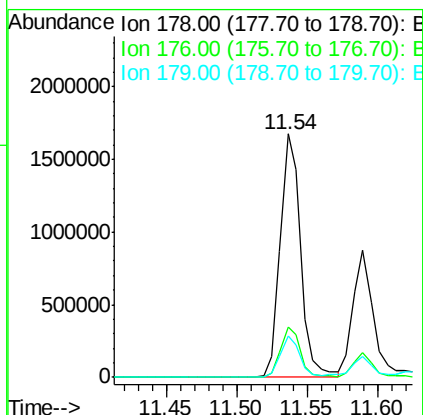
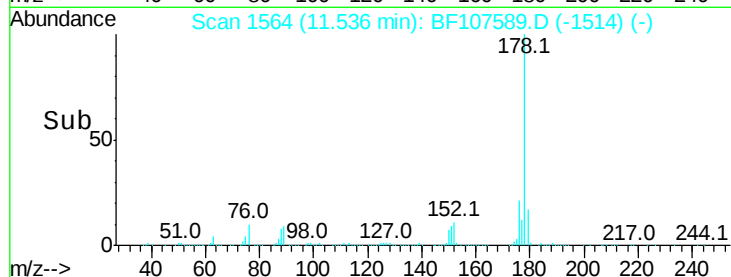
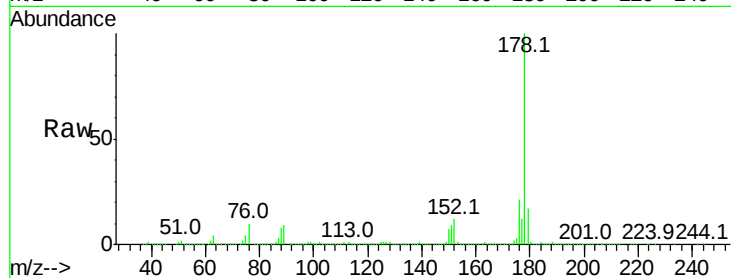
176 20.8 15.8 23.8

179 17.0 13.0 19.6

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#71

Anthracene

Concen: 21.965 ng

RT: 11.59 min Scan# 1573

Delta R.T. 0.00 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

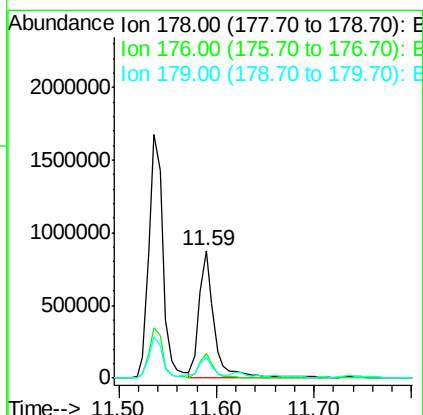
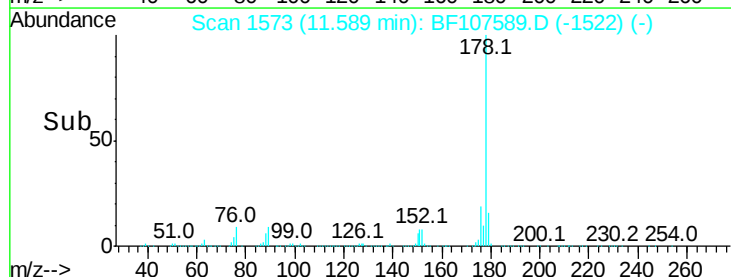
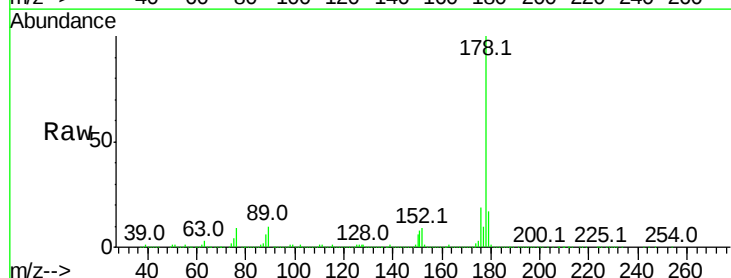
Tgt Ion:178 Resp: 916763

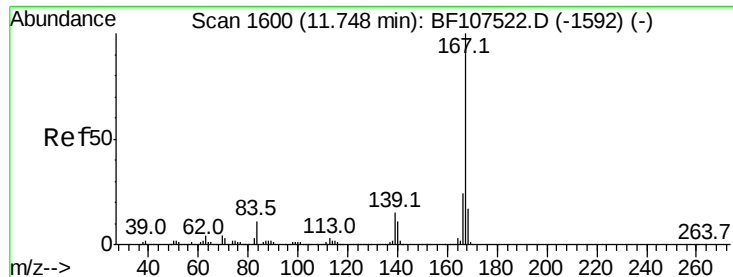
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 16.8 12.6 19.0





#72

Carbazole

Concen: 2.169 ng

RT: 11.75 min Scan# 1600

Delta R.T. 0.00 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

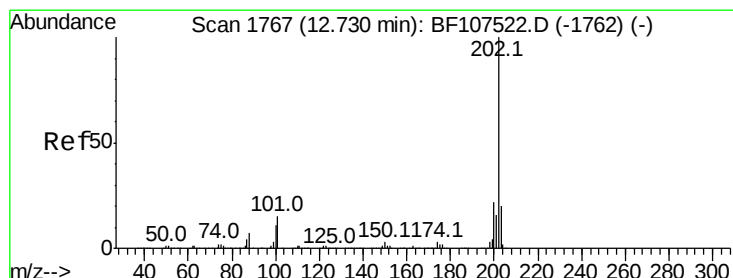
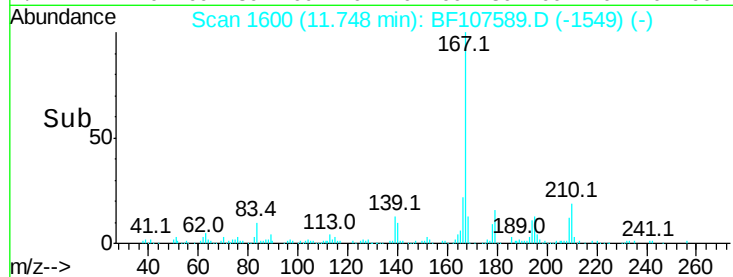
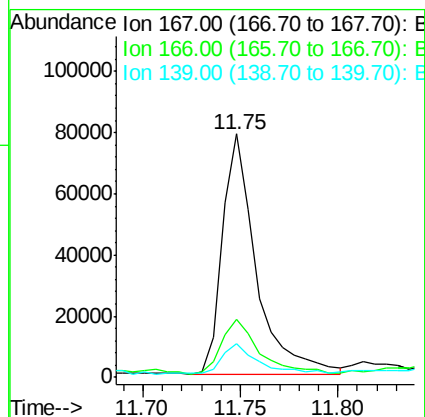
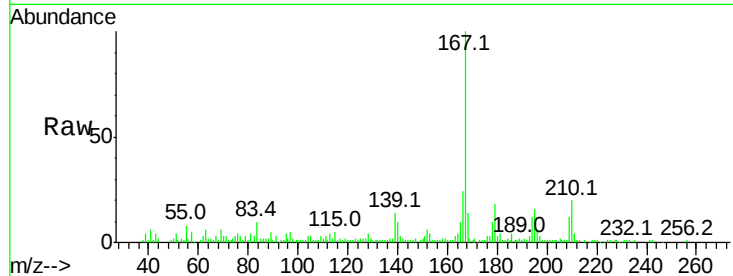
OR-01-071918

Tot Ion:	167	Resp:	94154
Ion Ratio	Lower	Upper	
167	100		
166	23.8	17.6	26.4
139	14.1	10.9	16.3

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#74

Fluoranthene

Concen: 74.169 ng

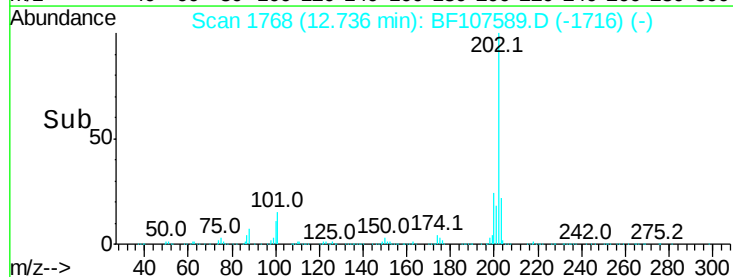
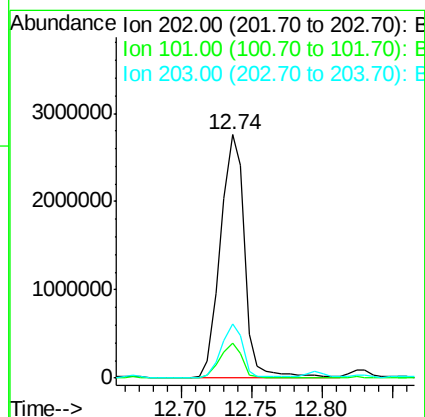
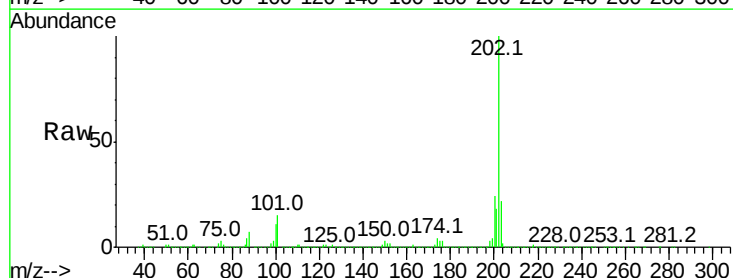
RT: 12.74 min Scan# 1768

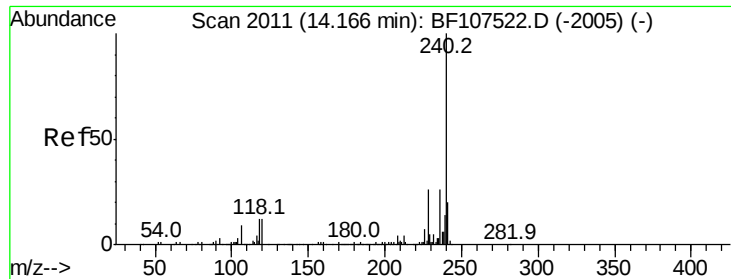
Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Tgt Ion:	202	Resp:	3299207
Ion Ratio	Lower	Upper	
202	100		
101	14.6	0.0	34.1
203	22.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

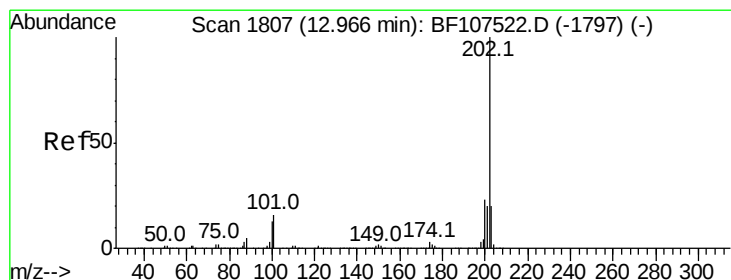
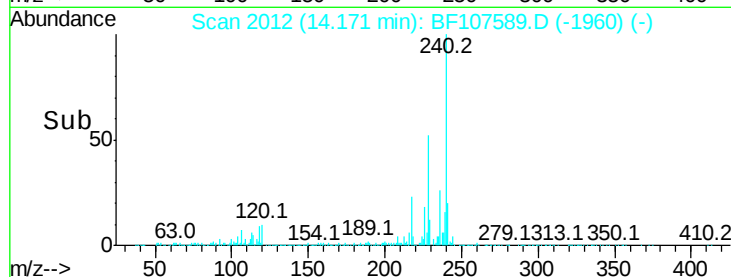
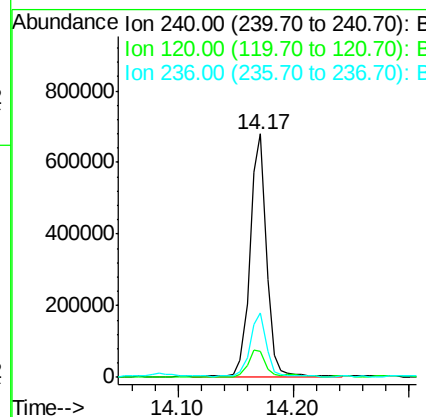
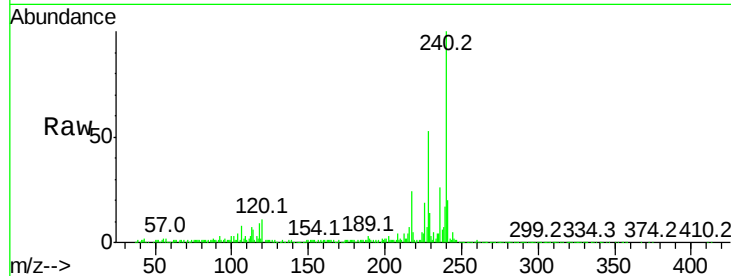
OR-01-071918

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.5	14.3
236	26.4	20.7	31.1

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#77

Pyrene

Concen: 70.393 ng

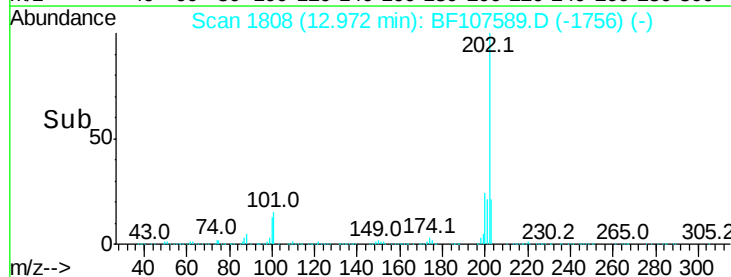
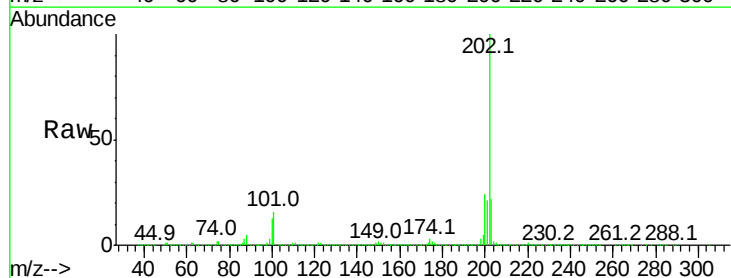
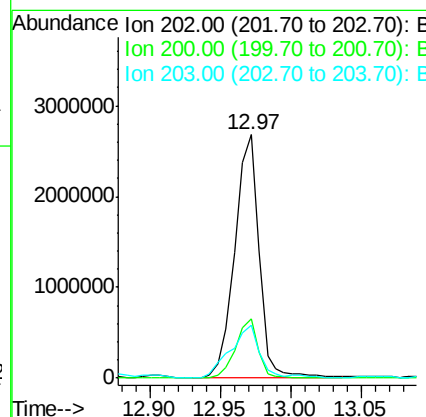
RT: 12.97 min Scan# 1808

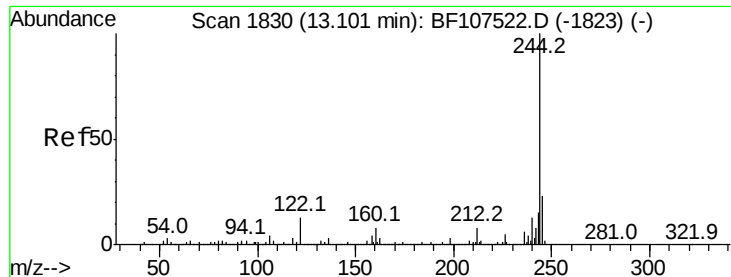
Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Tgt Ion	Ratio	Lower	Upper
202	100		
200	24.3	17.4	26.2
203	22.0	14.3	21.5





#78

Terphenyl-d14

Concen: 39.262 ng

RT: 13.10 min Scan# 1829

Delta R.T. -0.00 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

OR-01-071918

Tot Ion:244 Resp: 1024869

Ion Ratio Lower Upper

244 100

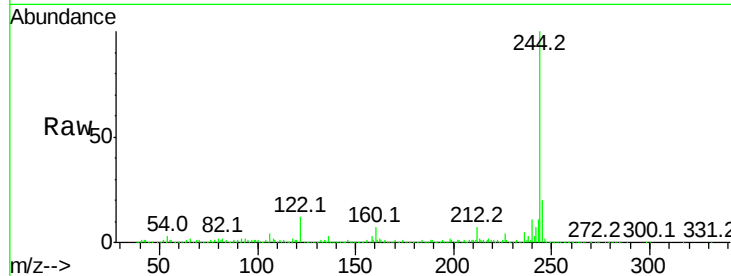
212 6.8 5.4 8.0

122 12.0 11.0 16.4

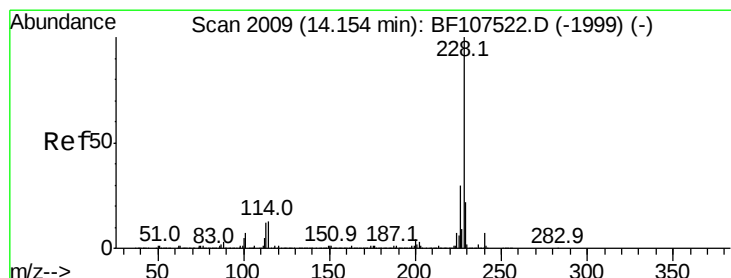
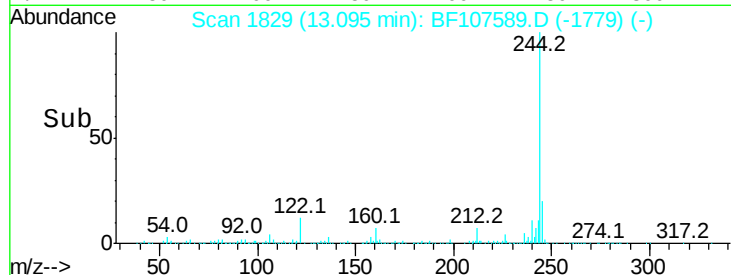
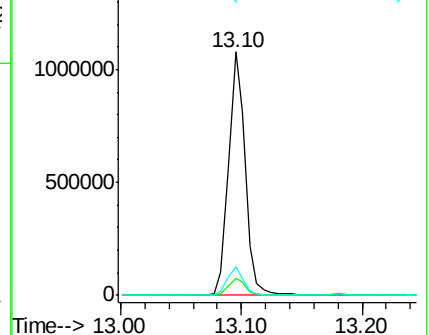
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 46.480 ng

RT: 14.16 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

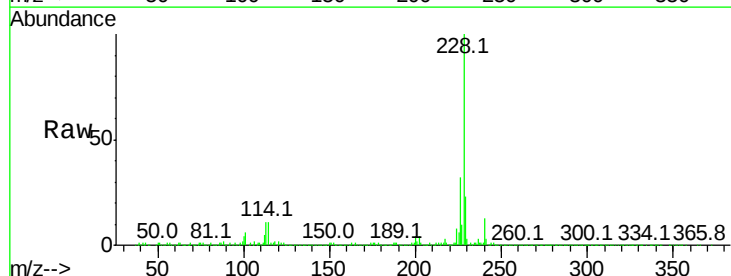
Tgt Ion:228 Resp: 1820234

Ion Ratio Lower Upper

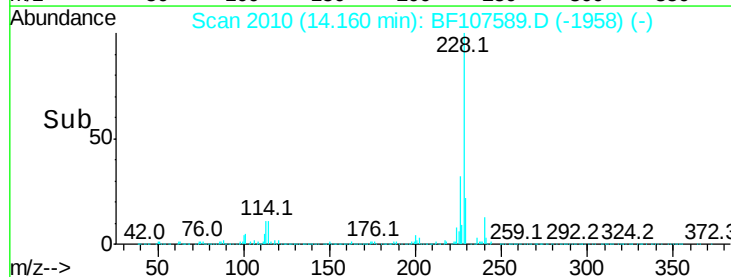
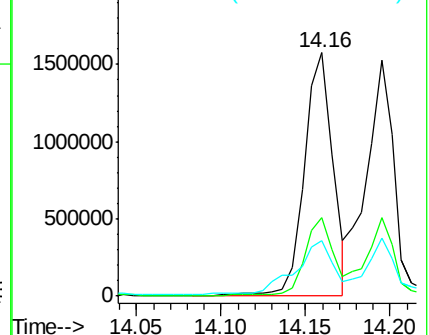
228 100

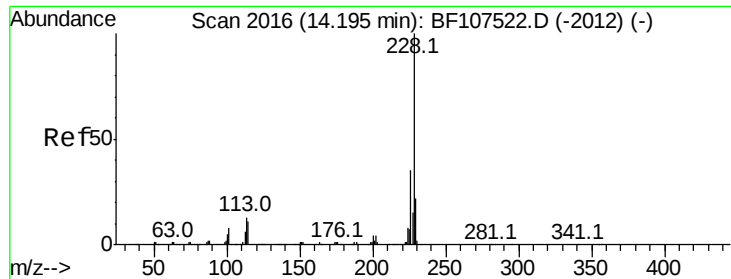
226 32.2 22.6 33.8

229 22.6 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 45.958 ng m

RT: 14.19 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

OR-01-071918

Tot Ion:228 Resp: 1728885

Ion Ratio Lower Upper

228 100

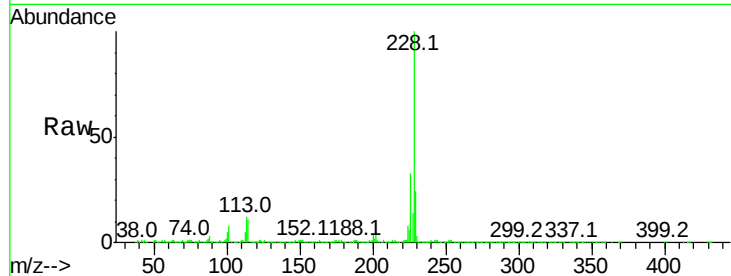
226 33.1 25.0 37.6

229 24.4 16.2 24.4#

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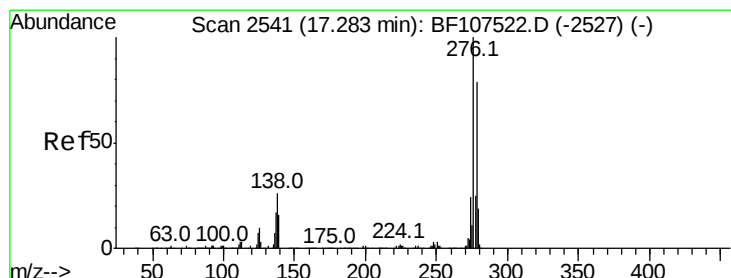
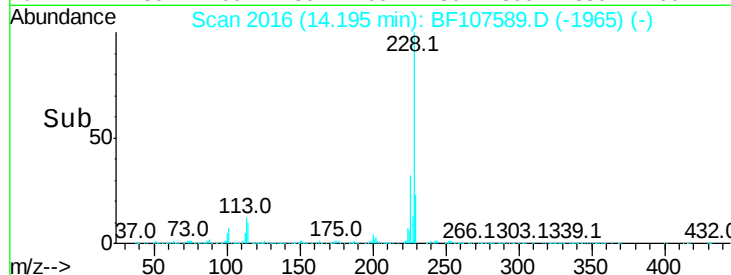
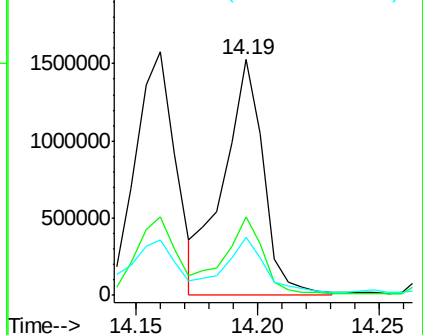
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 27.734 ng m

RT: 17.29 min Scan# 2543

Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

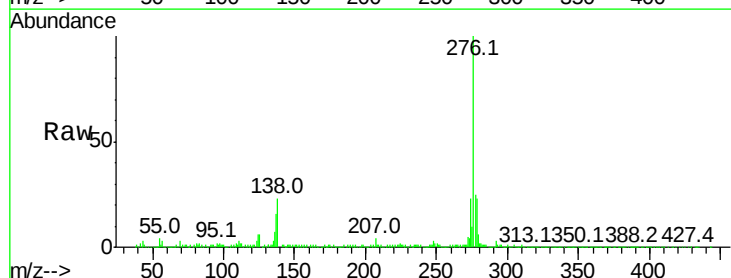
Tgt Ion:276 Resp: 884246

Ion Ratio Lower Upper

276 100

138 5.3 25.0 37.6#

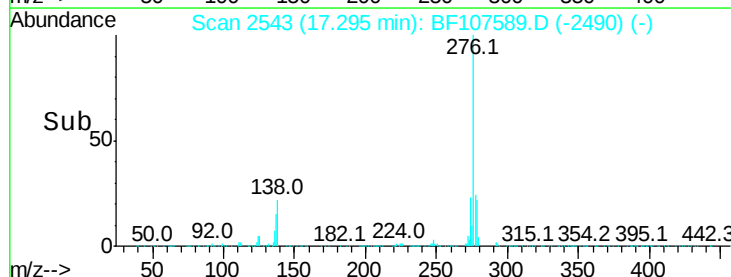
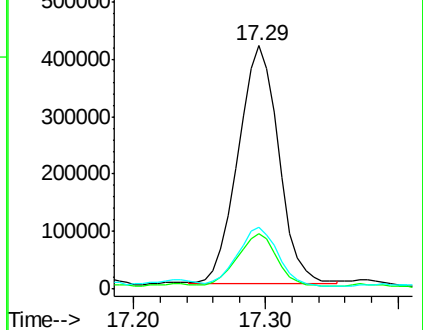
277 5.3 20.1 30.1#

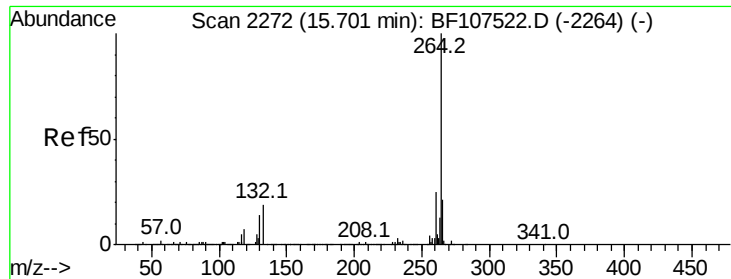


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





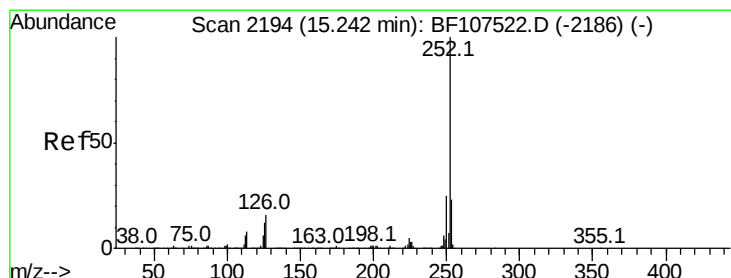
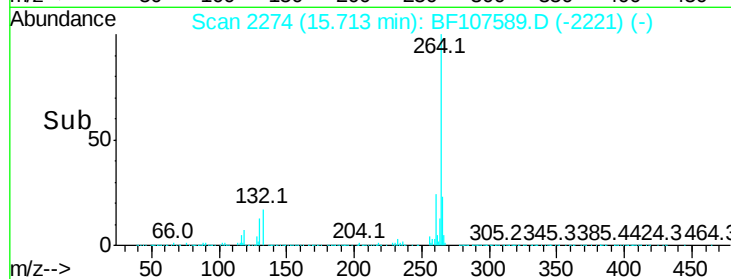
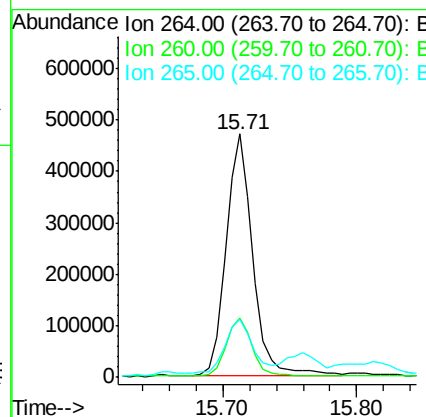
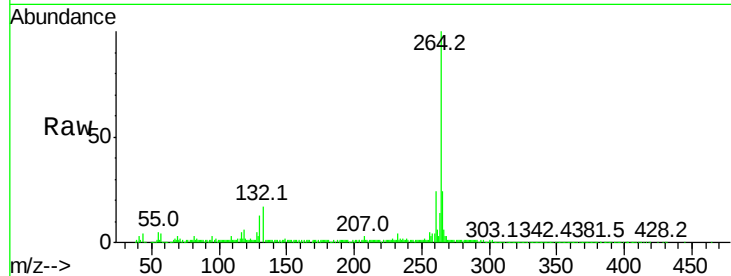
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.71 min Scan# 2274
Delta R.T. 0.01 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Instrument :
BNA_F
ClientSampleId :
OR-01-071918

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.8	17.5	26.3

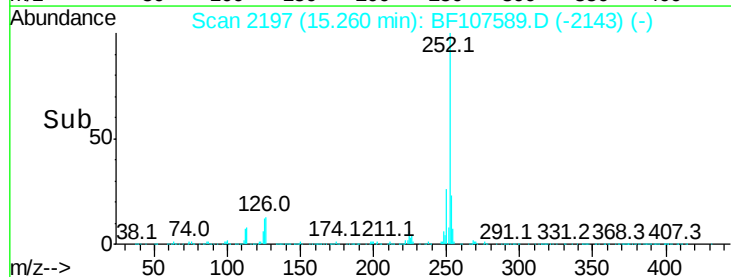
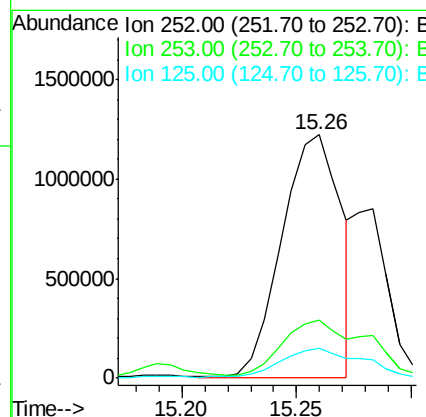
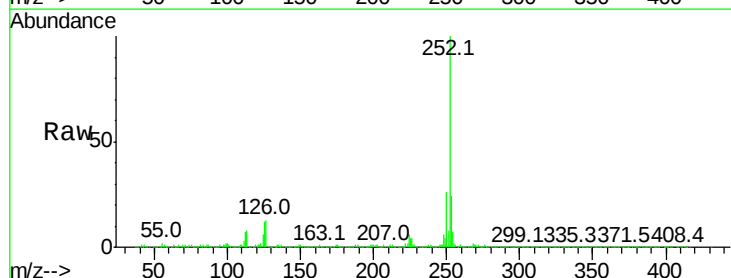
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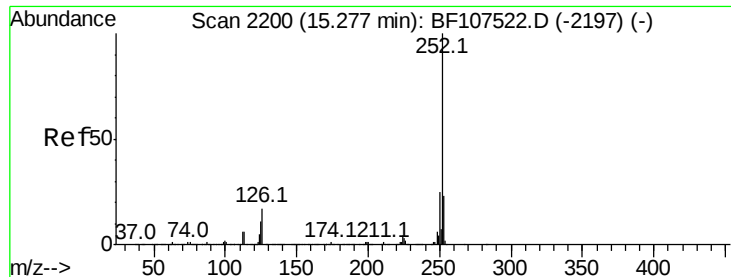
Sohil
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#87
Benzo(b)fluoranthene
Concen: 60.935 ng m
RT: 15.26 min Scan# 2197
Delta R.T. 0.02 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	12.2	9.0	13.6





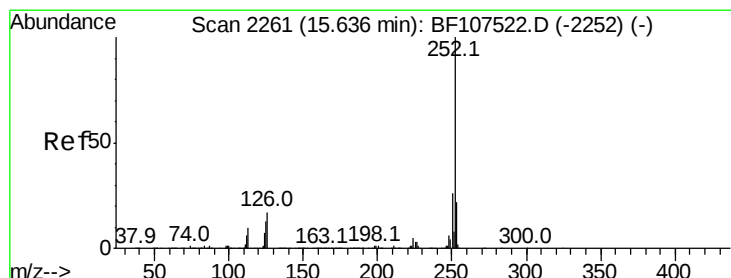
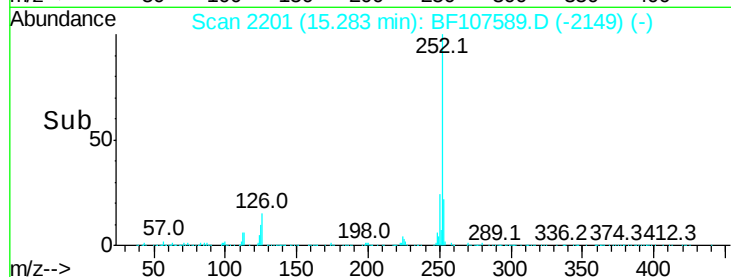
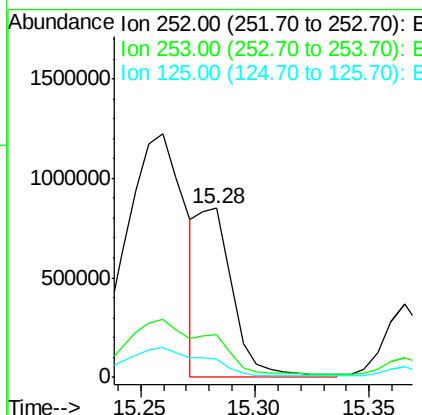
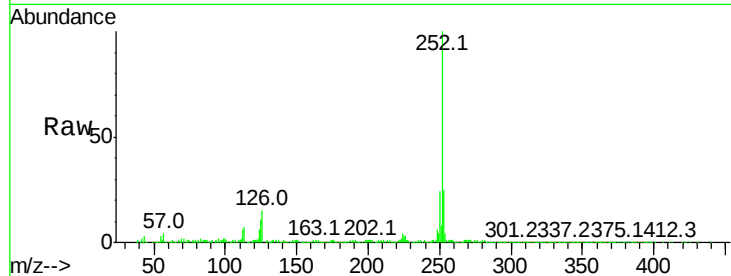
#88
Benzo(k)fluoranthene
Concen: 25.927 ng m
RT: 15.28 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Instrument :
BNA_F
ClientSampleId :
OR-01-071918

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.9	26.9
125	10.8	10.2	15.2

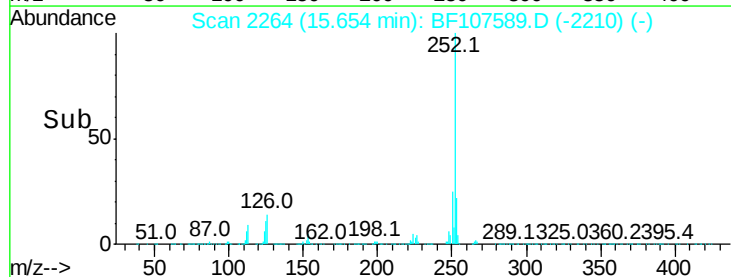
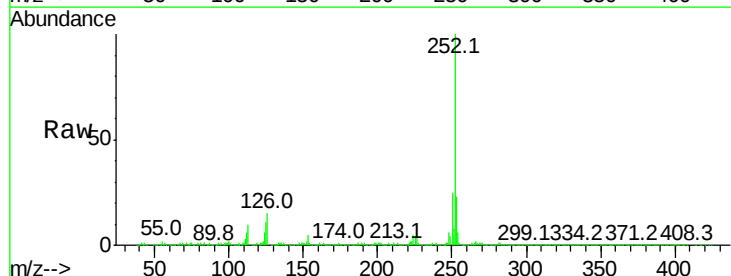
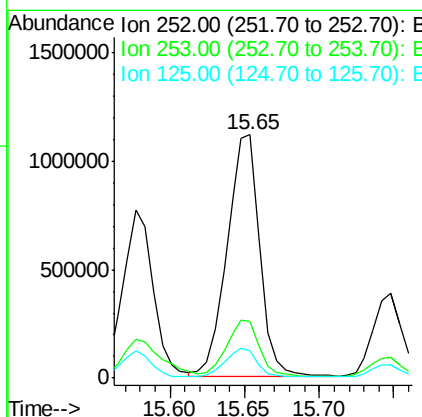
Manual Integrations
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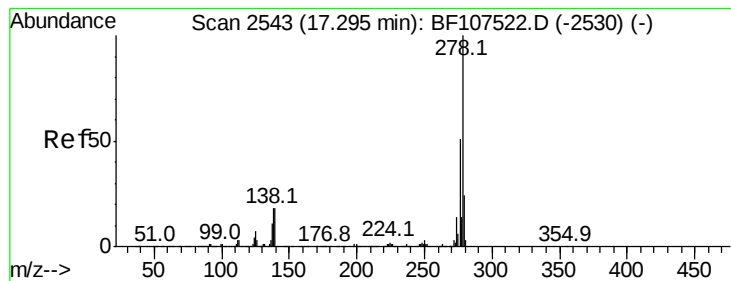
Sohil
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#89
Benzo(a)pyrene
Concen: 52.107 ng
RT: 15.65 min Scan# 2264
Delta R.T. 0.02 min
Lab File: BF107589.D
Acq: 23 Jul 2018 15:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	11.1	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 7.494 ng

RT: 17.31 min Scan# 2545

Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA_F

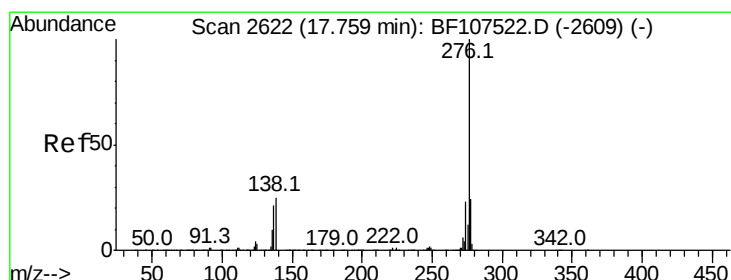
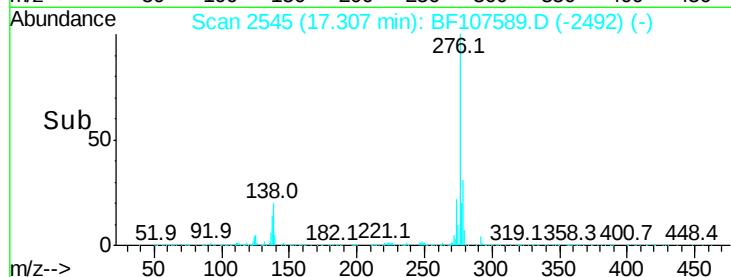
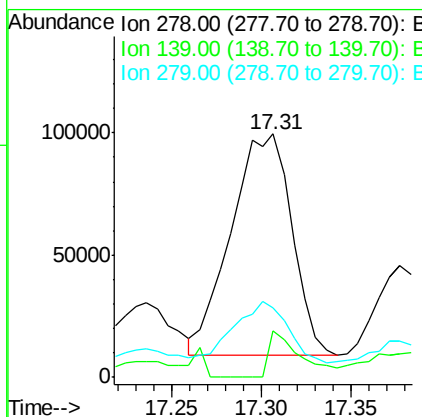
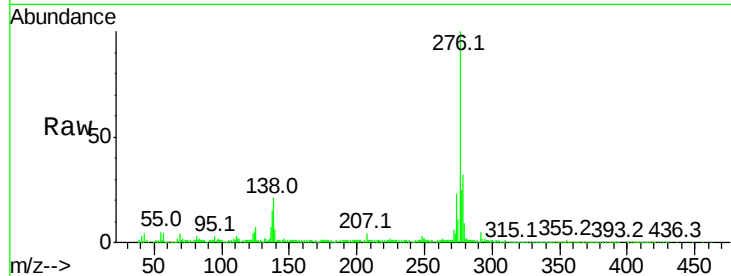
ClientSampleId :

OR-01-071918

Tot Ion:	278	Resp:	212297
Ion Ratio	Lower	Upper	
278	100		
139	19.0	15.9	23.9
279	28.7	19.0	28.4

Manual Integrations
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Sohil
7/24/2018 5:26:05 PM



#91

Benzo(g,h,i)perylene

Concen: 34.363 ng

RT: 17.78 min Scan# 2626

Delta R.T. 0.02 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Tgt Ion:	276	Resp:	960275
Ion Ratio	Lower	Upper	
276	100		
277	24.9	17.9	26.9
138	23.8	21.8	32.8

