

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
 Data File : BF107749.D
 Acq On : 27 Jul 2018 16:46
 Operator : JU/SJ
 Sample : J4143-05 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

Manual Integrations
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 7/30/2018 2:02:53 PM

Quant Time: Jul 27 19:06:00 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	6.96	152	139571	20.00	ng	-0.02
21) Naphthalene-d8	8.24	136	610986	20.00	ng	-0.02
38) Acenaphthene-d10	10.00	164	261339	20.00	ng	-0.02
63) Phenanthrene-d10	11.49	188	452712	20.00	ng	-0.02
75) Chrysene-d12	14.15	240	372845	20.00	ng	-0.02
86) Perylene-d12	15.68	264	410578	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	103252	11.89	ng	0.00
7) Phenol-d6	6.60	99	230814	22.14	ng	-0.01
23) Nitrobenzene-d5	7.53	82	155079	17.13	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	41259	13.88	ng	-0.02
44) 2-Fluorobiphenyl	9.31	172	298976	12.77	ng	-0.02
78) Terphenyl-d14	13.08	244	248891	17.09	ng	-0.02

Target Compounds				Qvalue		
31) Naphthalene	8.27	128	247475	9.211	ng	100
37) 2-Methylnaphthalene	8.95	142	155906	8.374	ng	100
45) 1,1'-Biphenyl	9.42	154	46089	2.024	ng	97
48) Acenaphthylene	9.86	152	102033	3.903	ng	# 95
51) Acenaphthene	10.03	154	154060	9.406	ng	99
54) Dibenzofuran	10.21	168	66225	2.747	ng	# 98
57) Fluorene	10.55	166	265579	15.439	ng	96
70) Phenanthrene	11.52	178	1239409	56.182	ng	99
71) Anthracene	11.57	178	401250	18.065	ng	98
74) Fluoranthene	12.72	202	945914	39.958	ng	94
77) Pyrene	12.95	202	1057680	41.473	ng	98
80) Benzo(a)anthracene	14.14	228	487538	22.314	ng	95
82) Chrysene	14.18	228	503627	23.995	ng	99
85) Indeno(1,2,3-cd)pyrene	17.26	276	178962	10.061	ng	# 84
87) Benzo(b)fluoranthene	15.22	252	438301m	19.506	ng	
88) Benzo(k)fluoranthene	15.25	252	215787m	9.802	ng	
89) Benzo(a)pyrene	15.62	252	414949	20.188	ng	97
90) Dibenzo(a,h)anthracene	17.26	278	43539	2.450	ng	# 78
91) Benzo(a,h,i)perylene	17.74	276	159388	9.094	ng	# 93

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

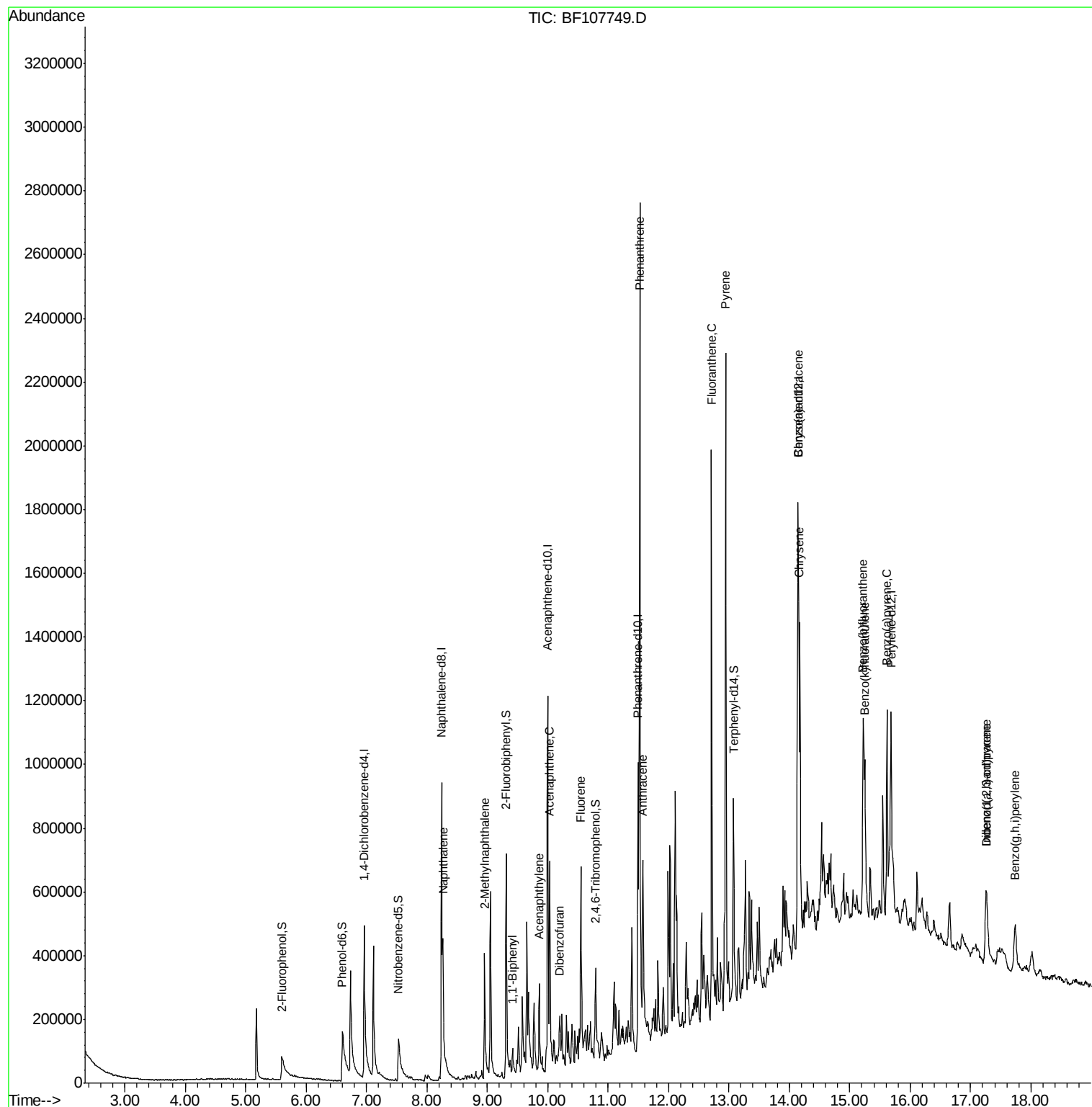
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

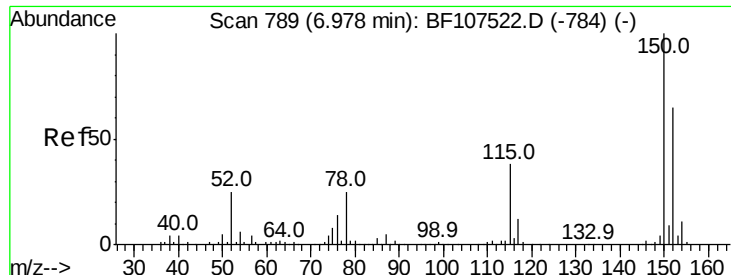
Instrument :
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GW-01(3-5)

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Quant Time: Jul 27 19:06:00 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





#1

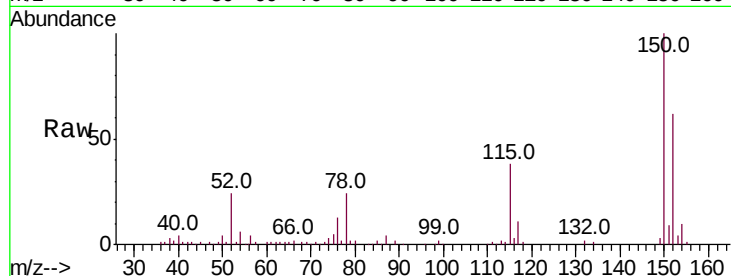
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.6	124.6	186.8
115	60.9	50.1	75.1

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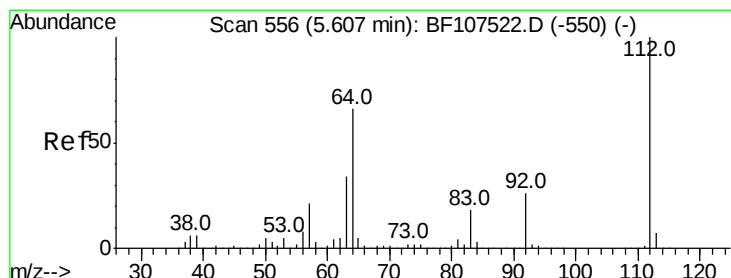
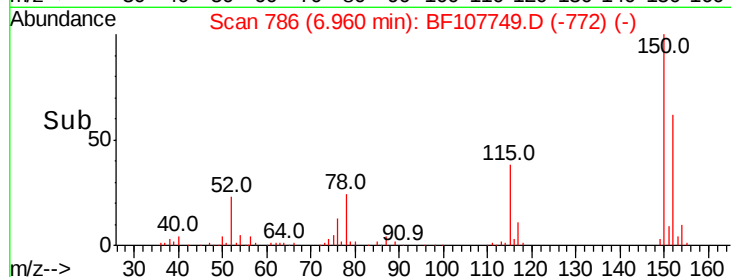
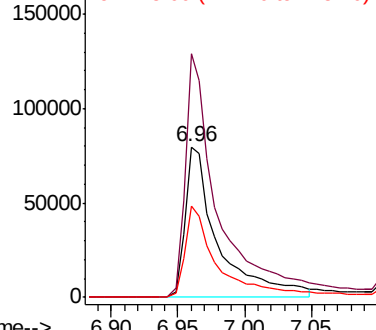


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

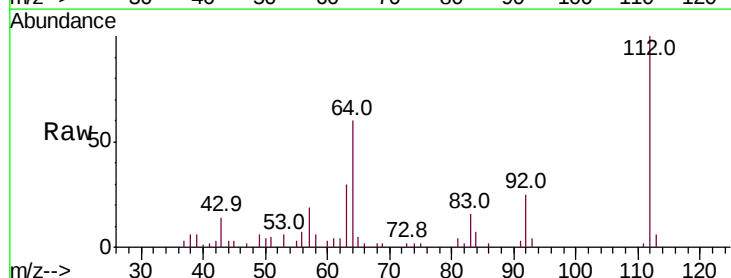
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 11.894 ng
RT: 5.60 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.5	47.9	71.9
63	30.1	23.7	35.5

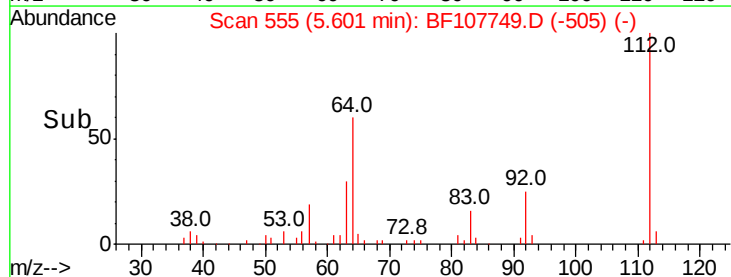
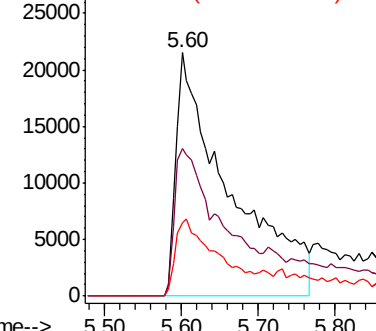


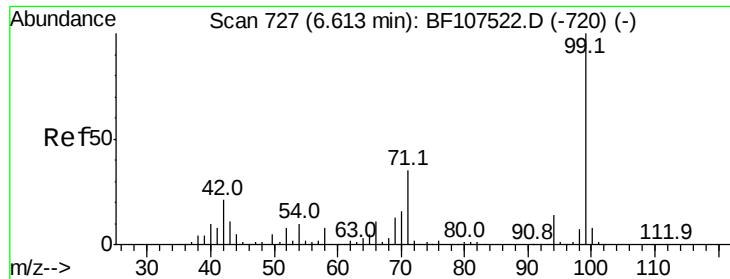
Abundance

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





#7

Phenol-d6

Concen: 22.144 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107749.D

Acq: 27 Jul 2018 16:46

Instrument :

BNA_F

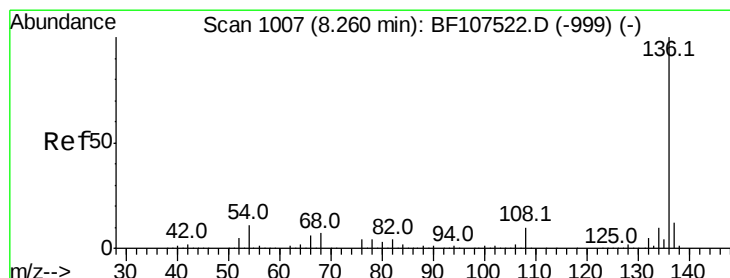
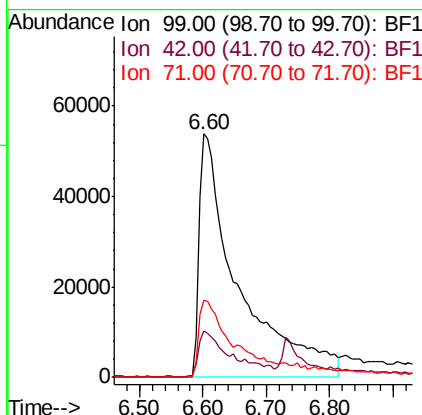
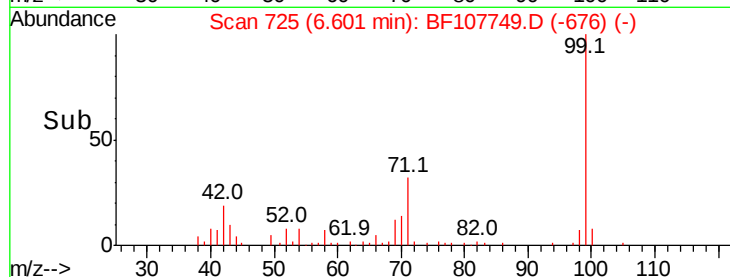
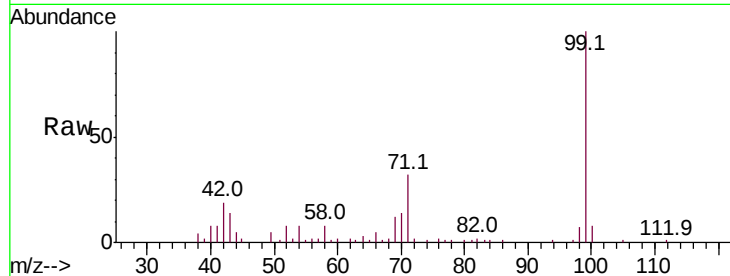
ClientSampleId :

GW-01(3-5)

Tot Ion:	99	Resp:	230814
Ion Ratio	Lower	Upper	
99	100		
42	19.3	14.5	21.7
71	31.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

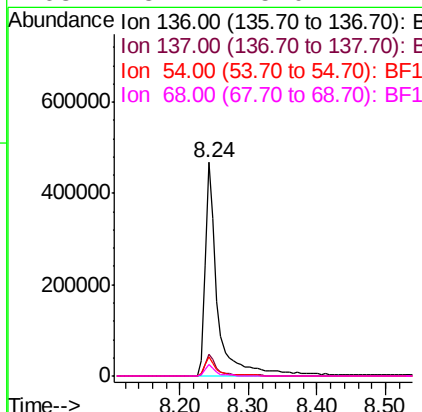
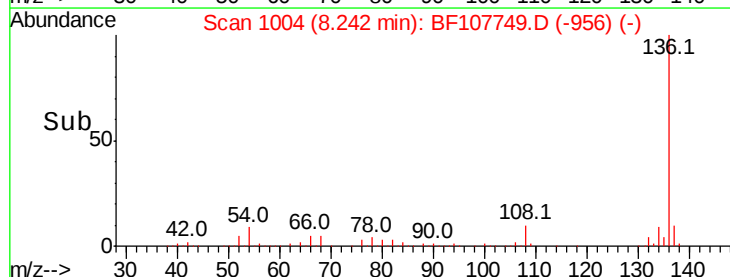
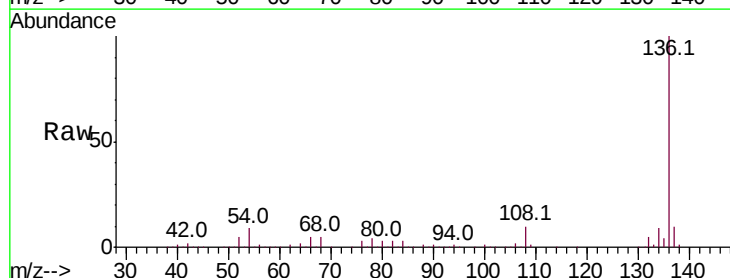
RT: 8.24 min Scan# 1004

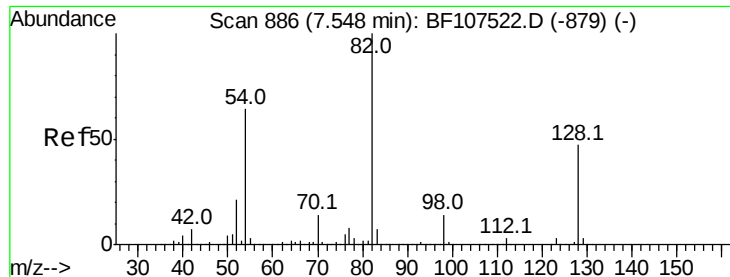
Delta R.T. -0.02 min

Lab File: BF107749.D

Acq: 27 Jul 2018 16:46

Tgt Ion:	136	Resp:	610986
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.9	13.3
54	9.2	6.6	9.8
68	5.4	5.0	7.4





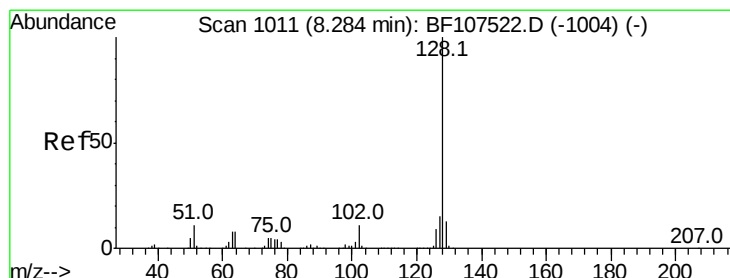
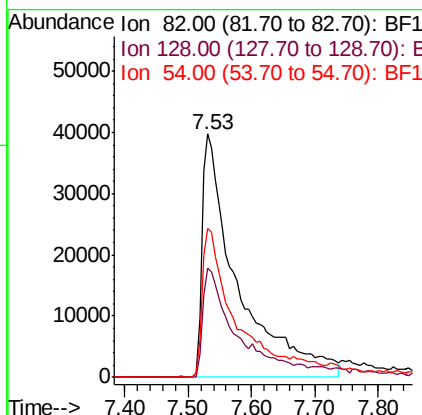
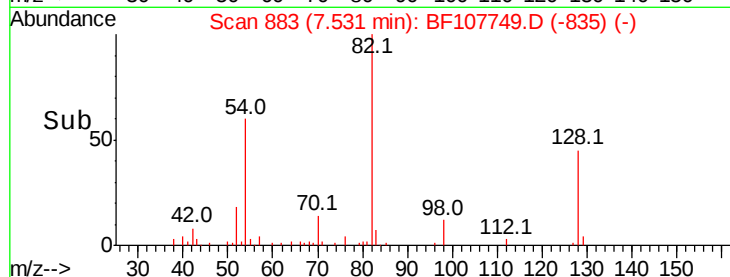
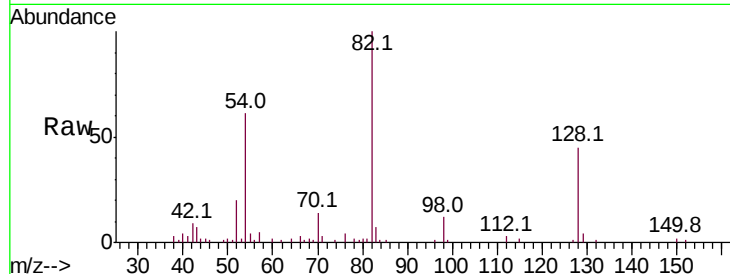
#23
 Nitrobenzene-d5
 Concen: 17.130 ng
 RT: 7.53 min Scan# 883
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

Tot Ion	82	Resp	155079
Ion Ratio	100	Lower	Upper
128	45.1	36.1	54.1
54	61.2	41.4	62.2

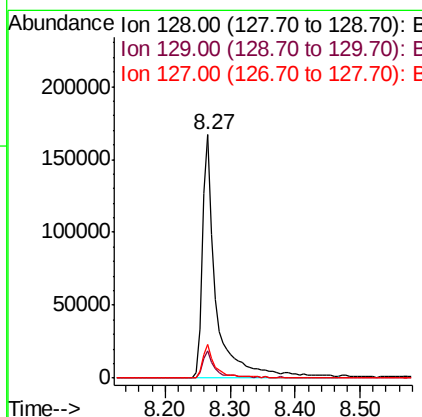
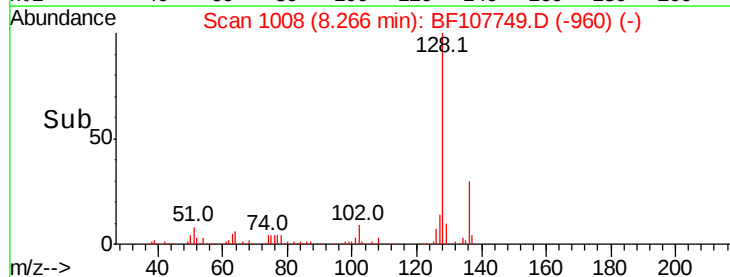
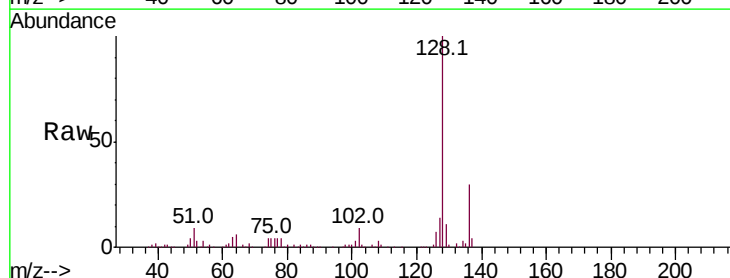
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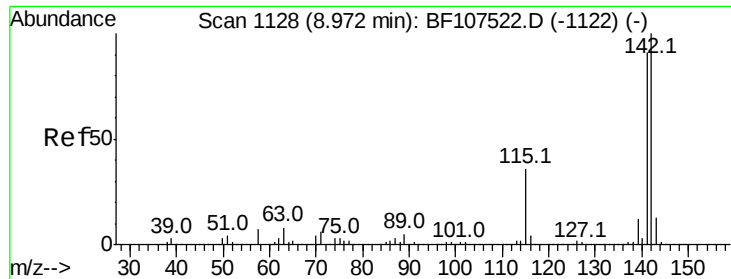
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#31
 Naphthalene
 Concen: 9.211 ng
 RT: 8.27 min Scan# 1008
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Tgt Ion	128	Resp	247475
Ion Ratio	100	Lower	Upper
129	11.0	8.8	13.2
127	13.7	10.9	16.3





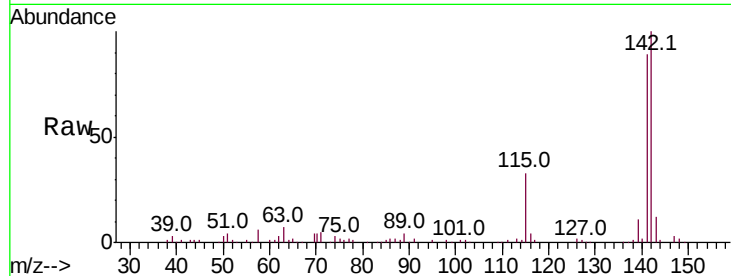
#37
2-Methylnaphthalene
Concen: 8.374 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.8	106.2
115	32.5	26.1	39.1

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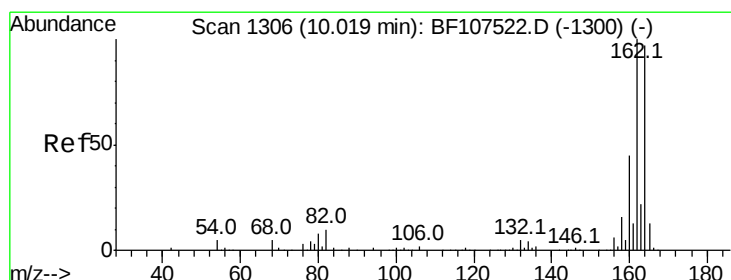
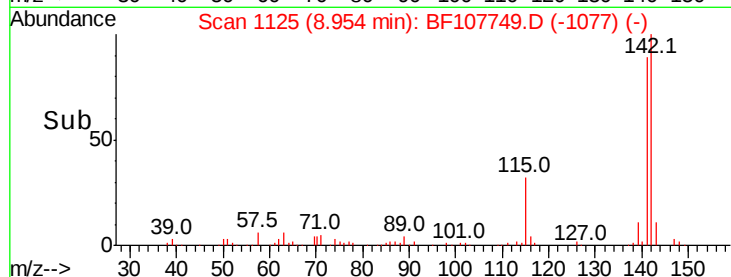
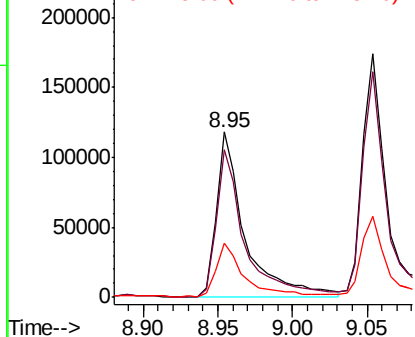


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

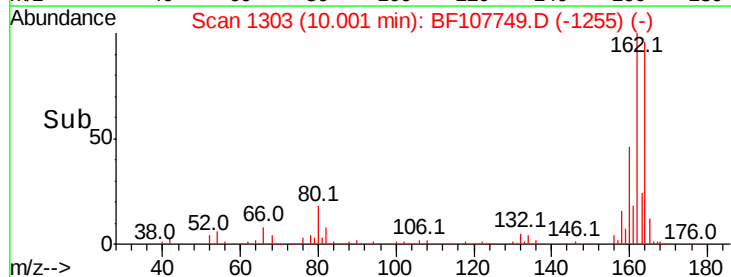
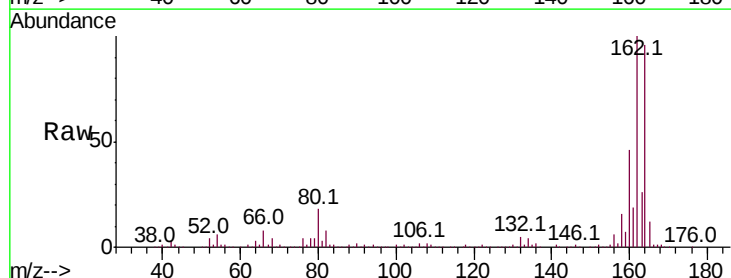
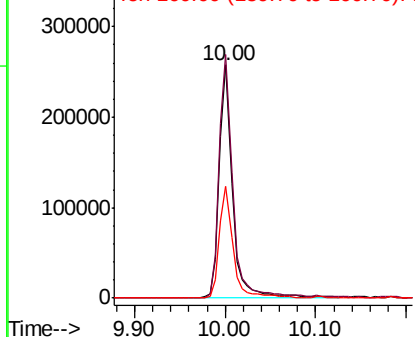
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	86.1	129.1
160	48.0	38.3	57.5

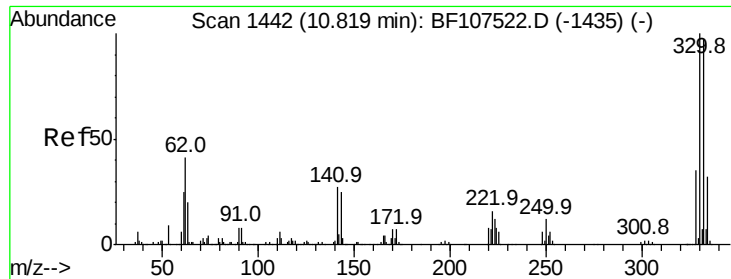
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





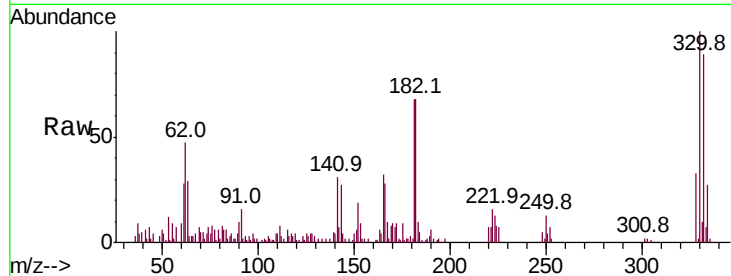
#41
 2,4,6-Tribromophenol
 Concen: 13.883 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.0	115.6
141	28.2	29.9	44.9#

Manual Integrations
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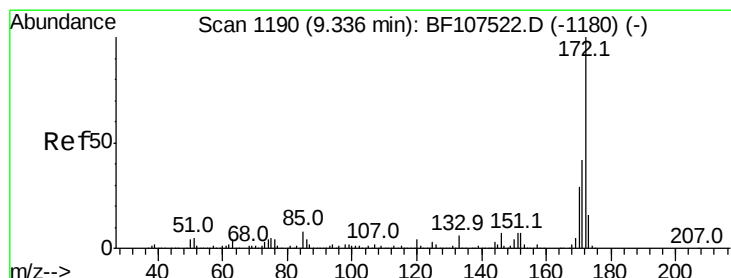
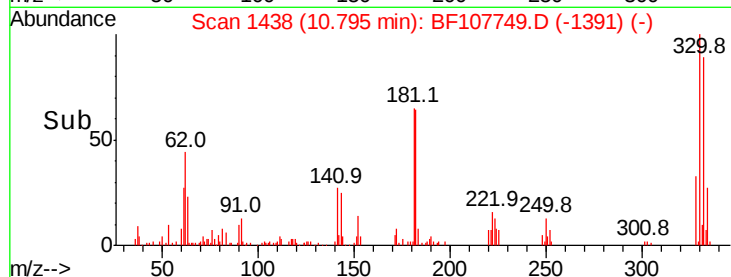
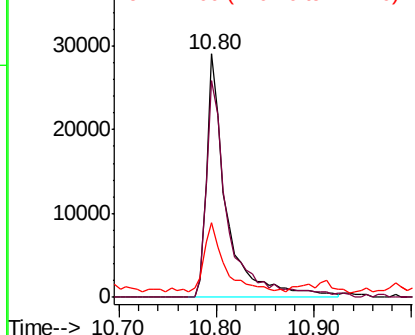


Abundance

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: 12.769 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

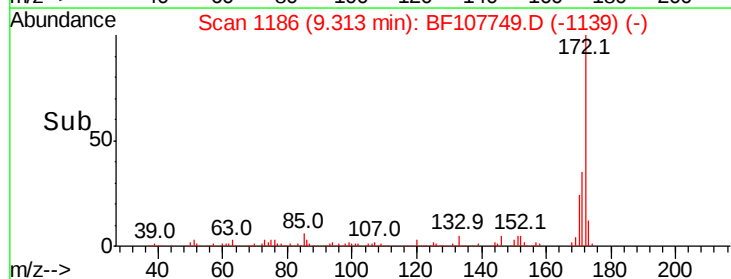
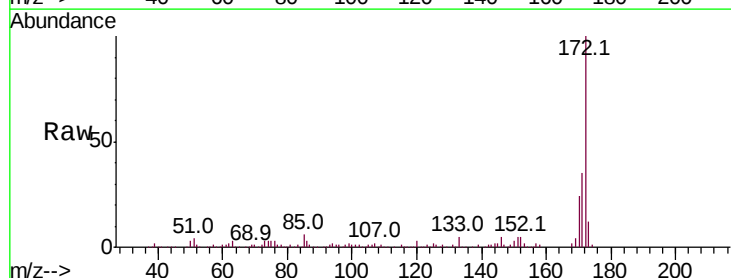
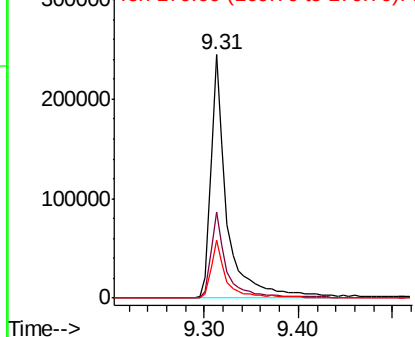
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.7	44.5
170	23.9	19.6	29.4

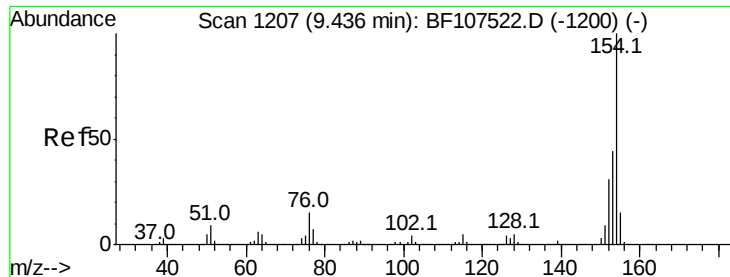
Abundance

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





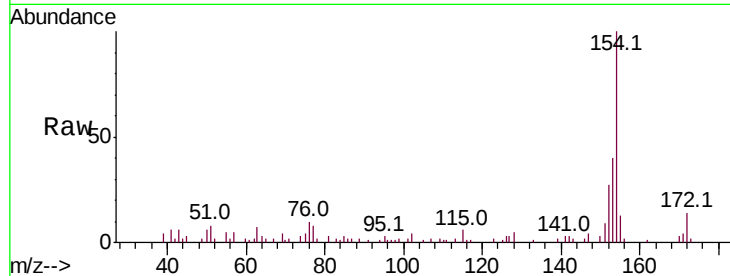
#45
 1,1'-Biphenyl
 Concen: 2.024 ng
 RT: 9.42 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

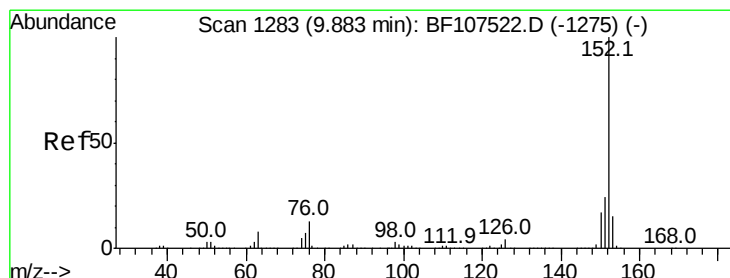
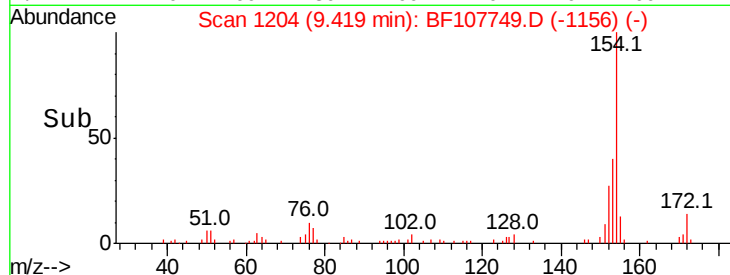
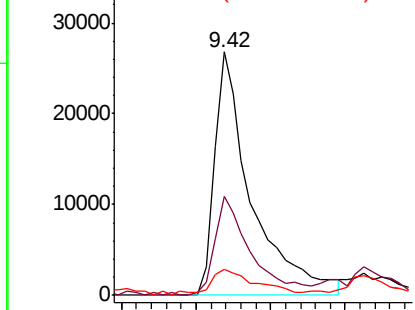
Tot Ion:	154	Resp:	46089
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.3	61.3
76	10.4	0.0	34.0

Manual Integrations
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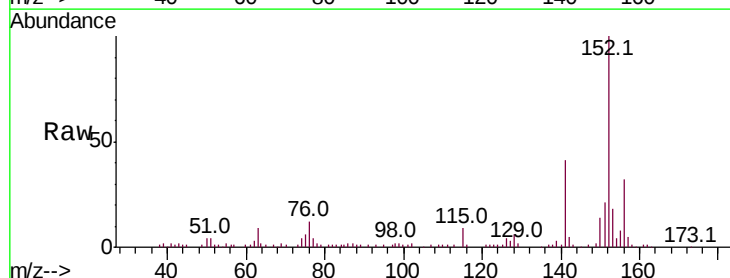


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

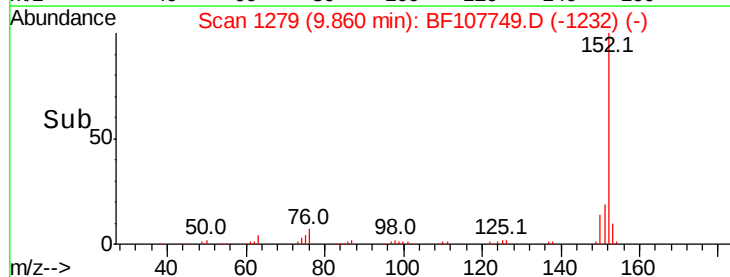
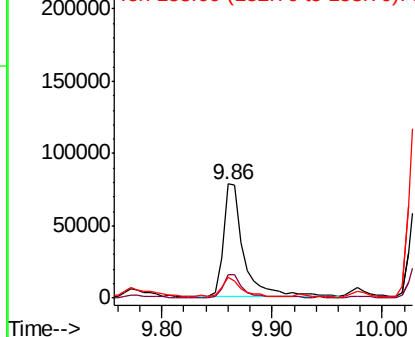


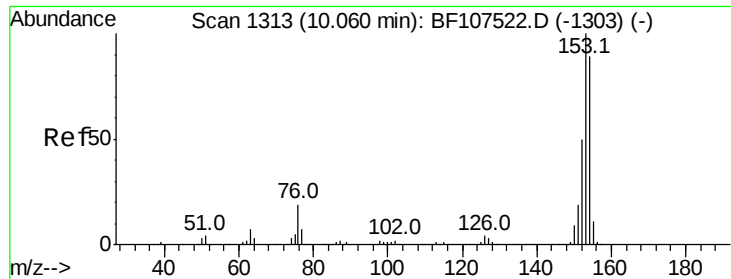
#48
 Acenaphthylene
 Concen: 3.903 ng
 RT: 9.86 min Scan# 1279
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Tgt Ion:	152	Resp:	102033
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.3	24.5
153	18.1	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





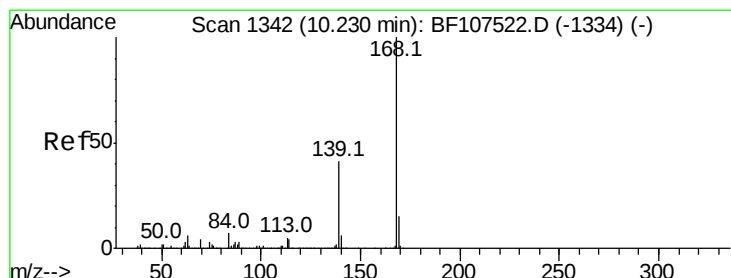
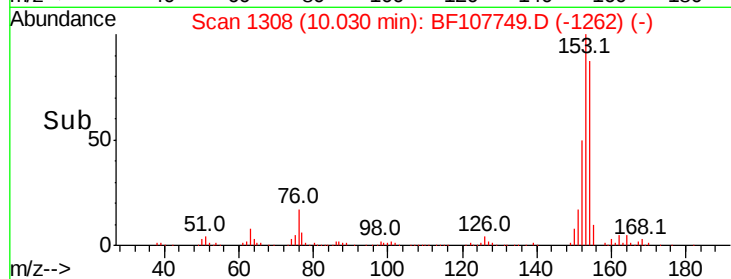
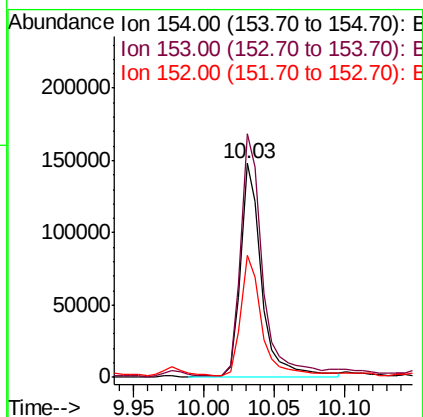
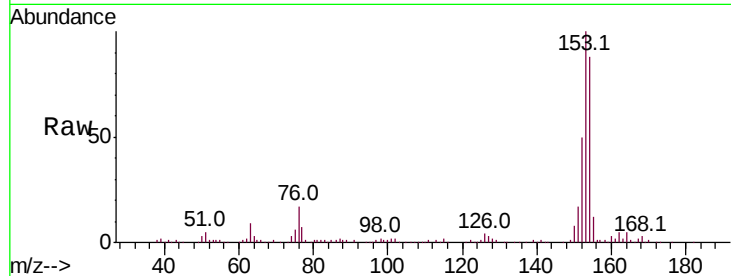
#51
Acenaphthene
Concen: 9.406 ng
RT: 10.03 min Scan# 1308
Delta R.T. -0.03 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.9	91.2	136.8
152	56.9	43.8	65.8

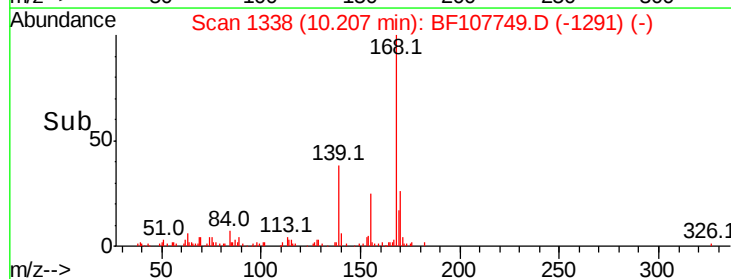
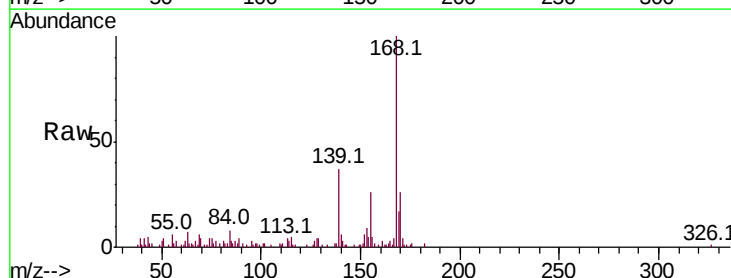
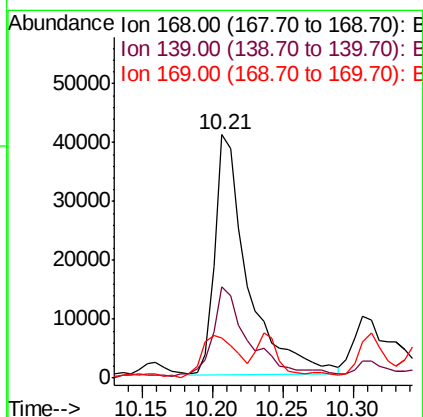
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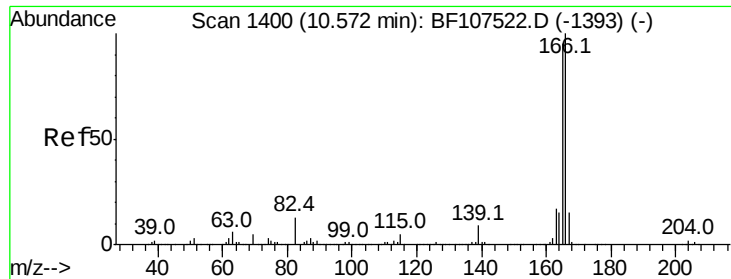
Sohil
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#54
Dibenzofuran
Concen: 2.747 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.3	30.1	45.1
169	16.6	10.9	16.3#





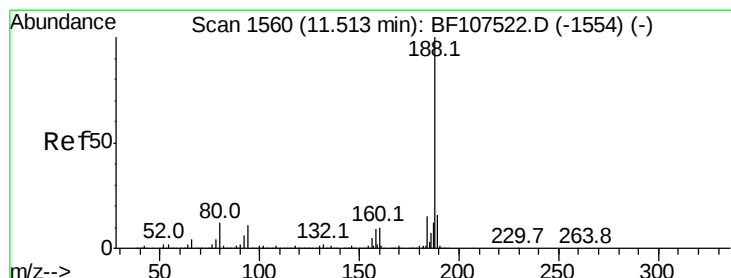
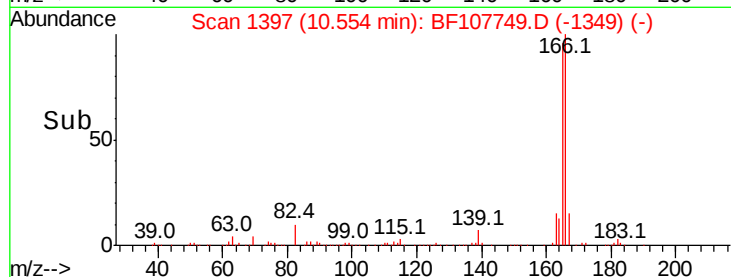
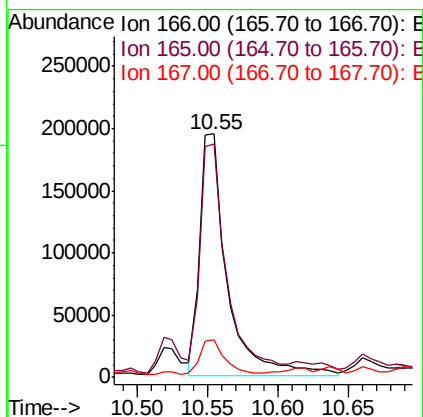
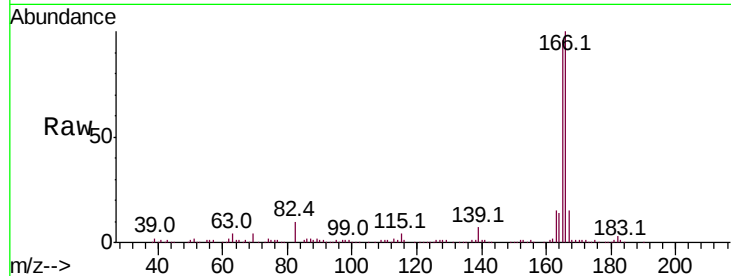
#57
Fluorene
 Concen: 15.439 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Instrument :
 BNA_F
 ClientSampled :
 GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	95.7	79.8	119.8
167	15.2	10.6	16.0

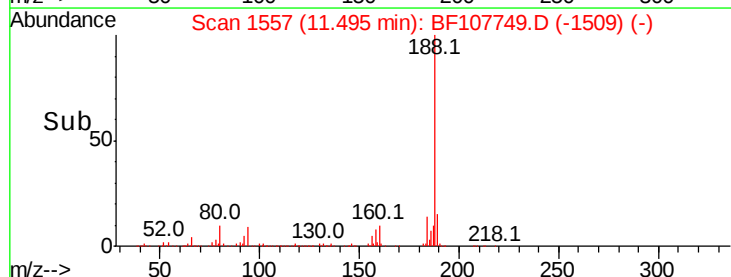
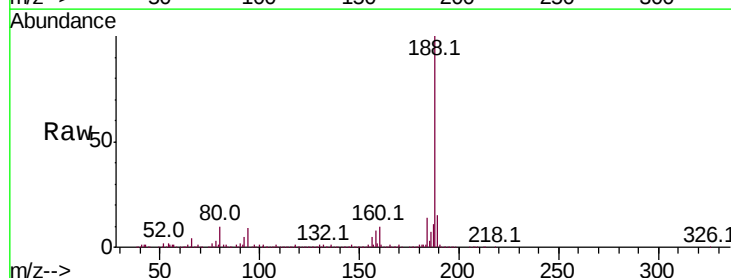
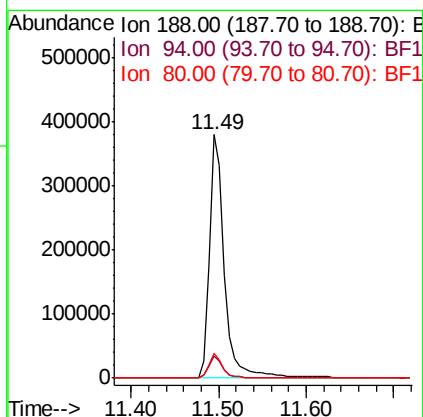
Manual Integrations
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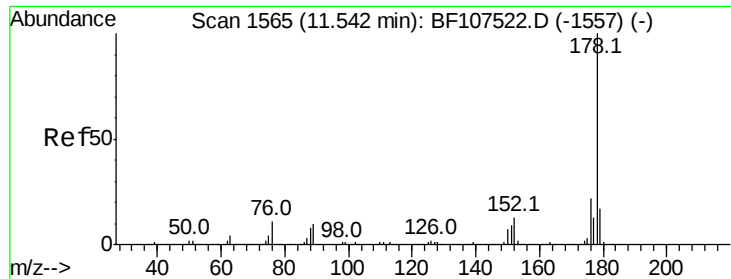
Sohil
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.49 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.0	8.5	12.7
80	10.0	9.2	13.8





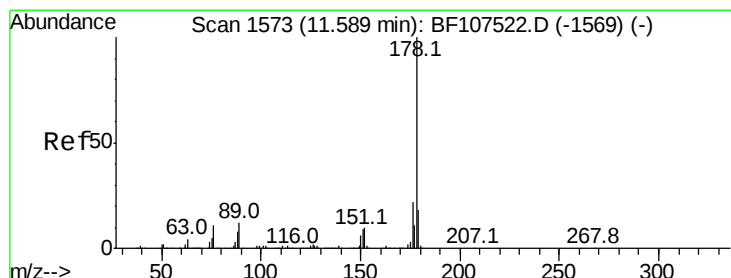
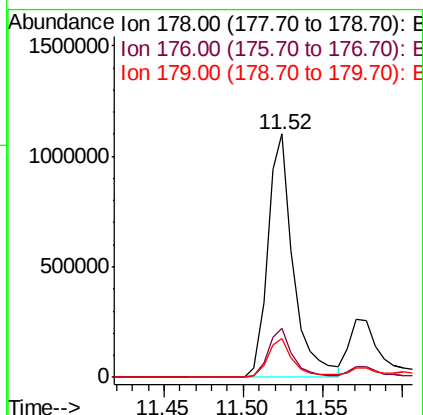
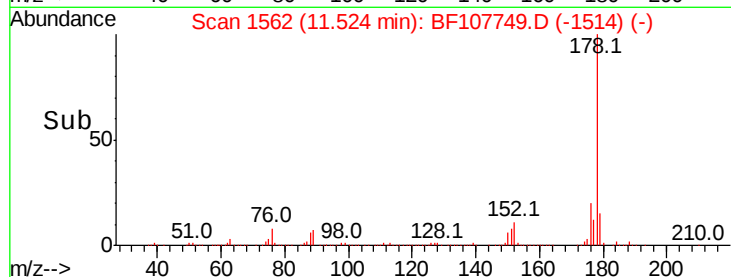
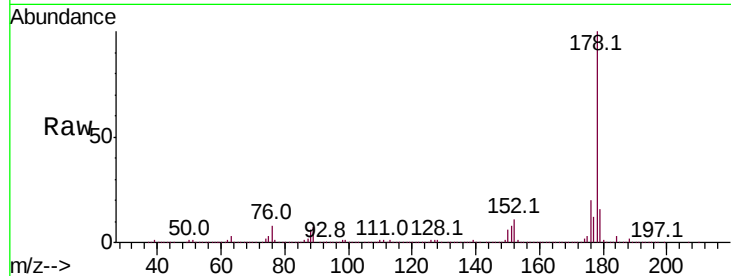
#70
Phenanthrene
Concen: 56.182 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleID :
GW-01(3-5)

Tot Ion:178 Resp: 1239409
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 15.7 13.0 19.6

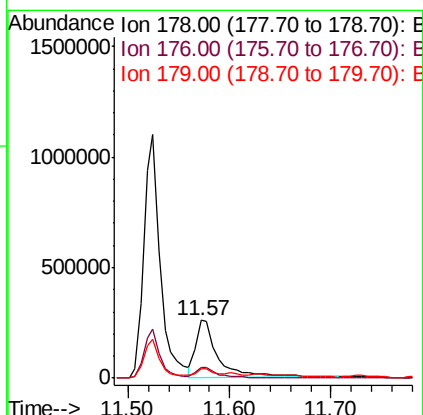
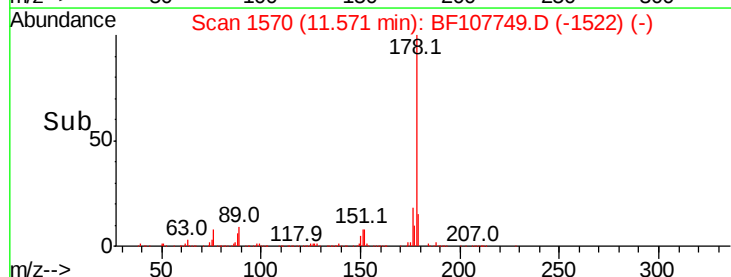
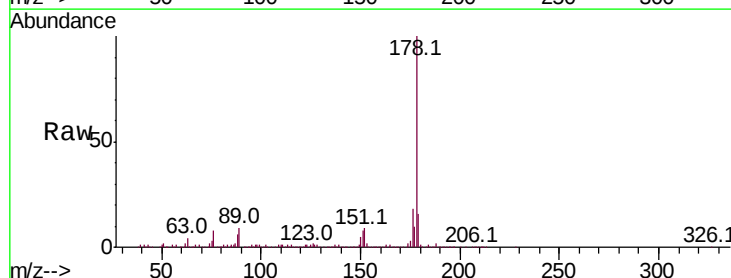
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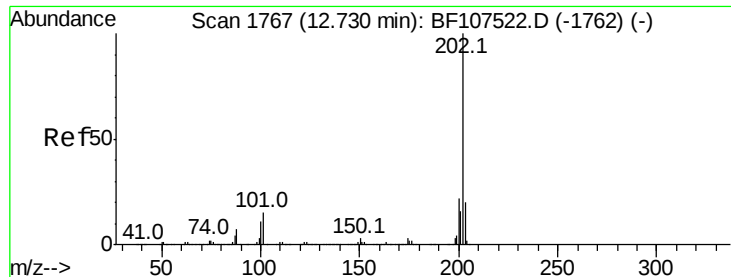
Sohil
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#71
Anthracene
Concen: 18.065 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Tgt Ion:178 Resp: 401250
Ion Ratio Lower Upper
178 100
176 18.1 15.4 23.2
179 15.8 12.6 19.0





#74

Fluoranthene

Concen: 39.958 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.01 min

Lab File: BF107749.D

Acq: 27 Jul 2018 16:46

Instrument :

BNA_F

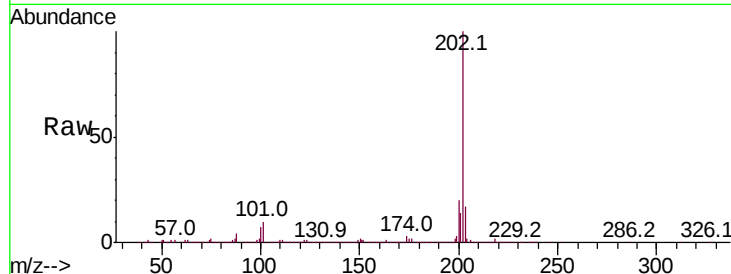
ClientSampled :

GW-01(3-5)

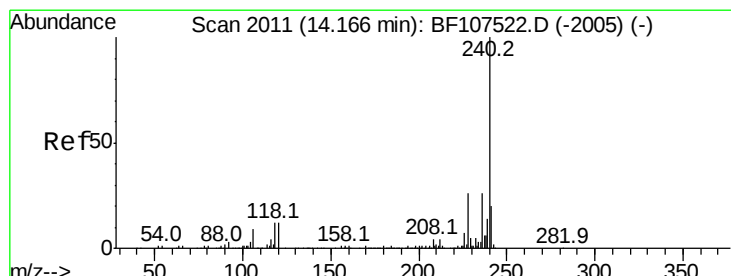
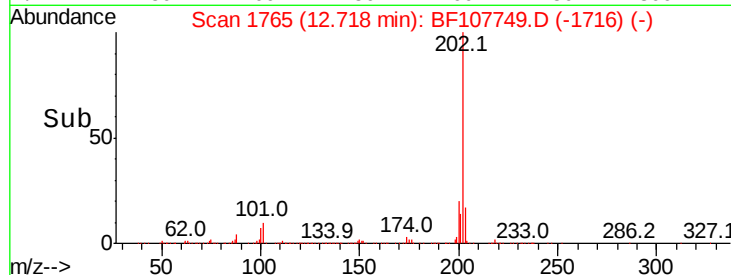
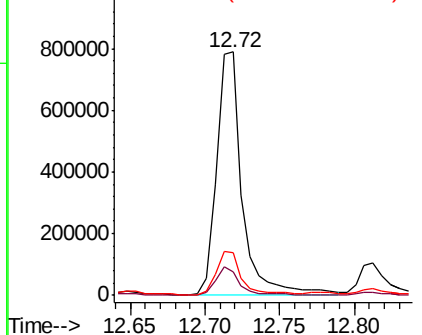
Tot Ion:	202	Resp:	945914
Ion Ratio	Lower	Upper	
202	100		
101	9.6	0.0	34.1
203	17.4	0.0	38.1

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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: 14.15 min Scan# 2008

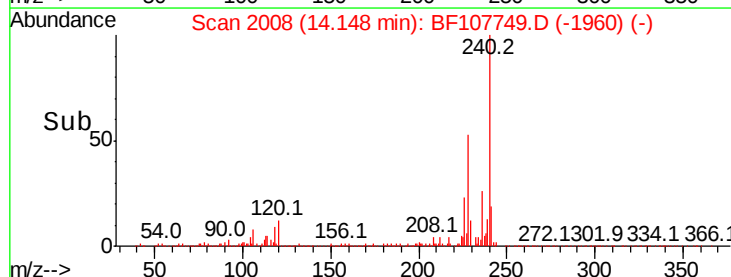
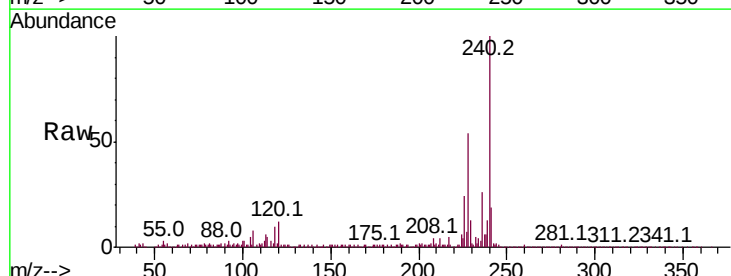
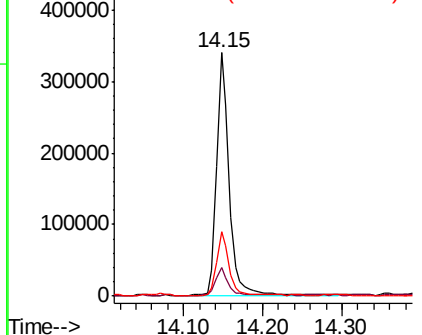
Delta R.T. -0.02 min

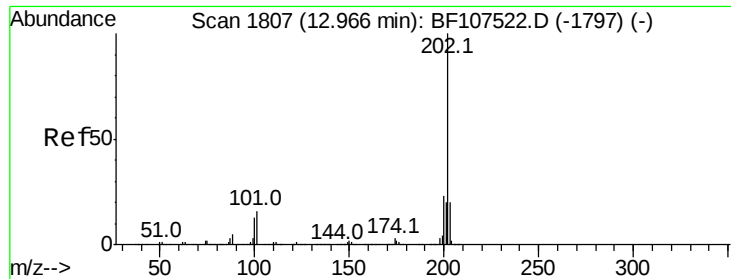
Lab File: BF107749.D

Acq: 27 Jul 2018 16:46

Tgt Ion:	240	Resp:	372845
Ion Ratio	Lower	Upper	
240	100		
120	11.8	9.5	14.3
236	26.3	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: 41.473 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.02 min

Lab File: BF107749.D

Acq: 27 Jul 2018 16:46

Instrument :

BNA_F

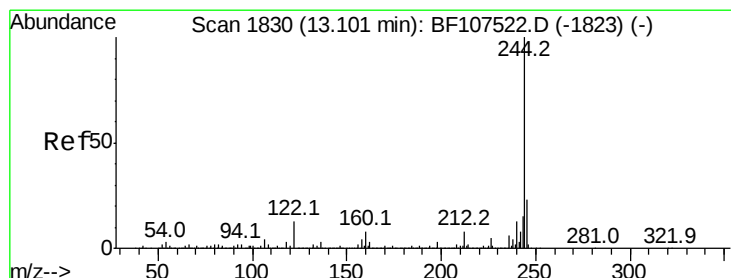
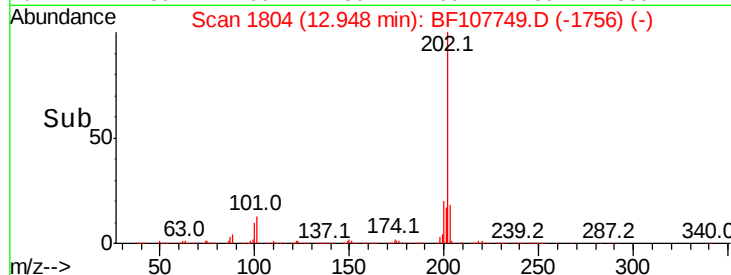
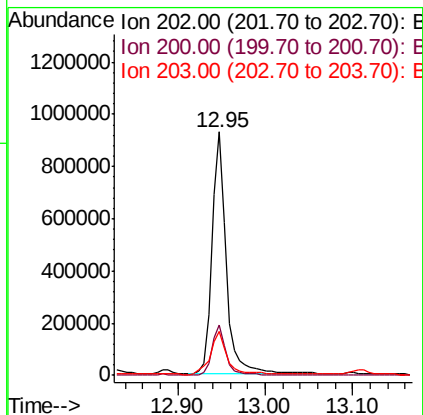
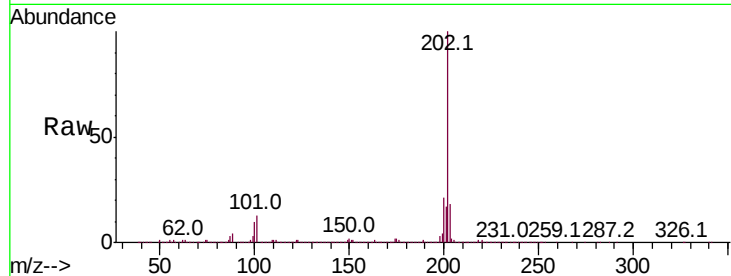
ClientSampleId :

GW-01(3-5)

Tot Ion:	202	Resp:	1057680
Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.4	26.2
203	18.3	14.3	21.5

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#78

Terphenyl-d14

Concen: 17.090 ng

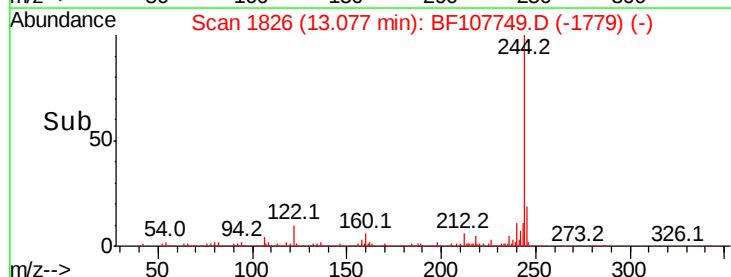
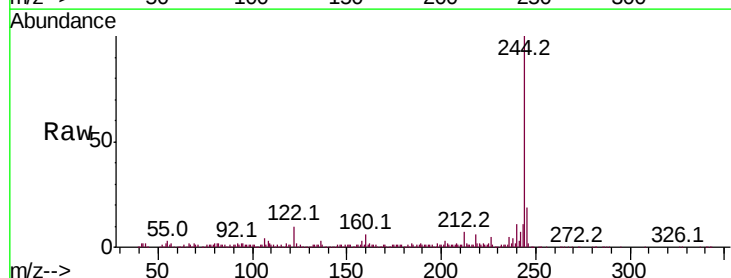
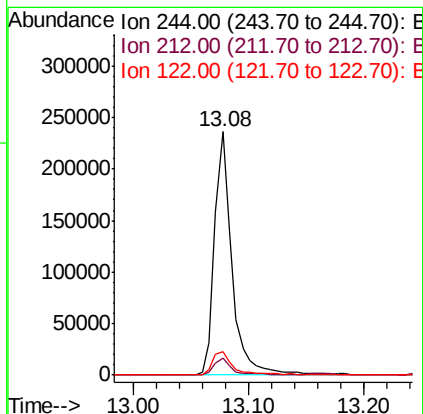
RT: 13.08 min Scan# 1826

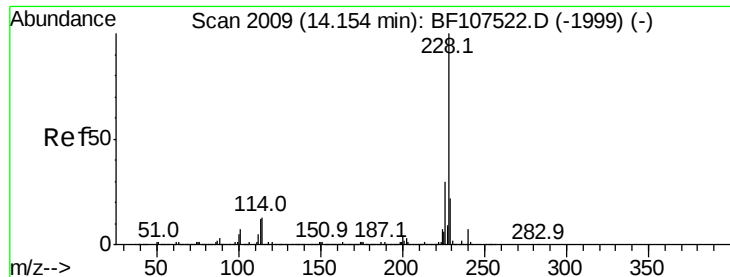
Delta R.T. -0.02 min

Lab File: BF107749.D

Acq: 27 Jul 2018 16:46

Tgt Ion:	244	Resp:	248891
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	9.8	11.0	16.4





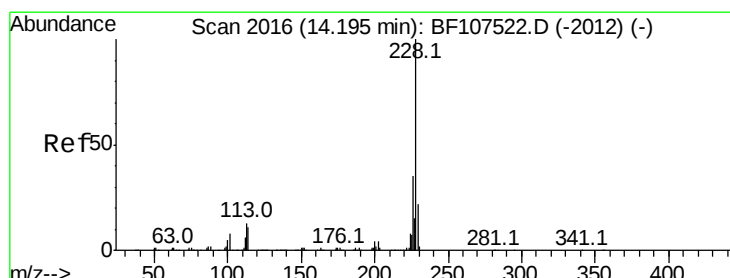
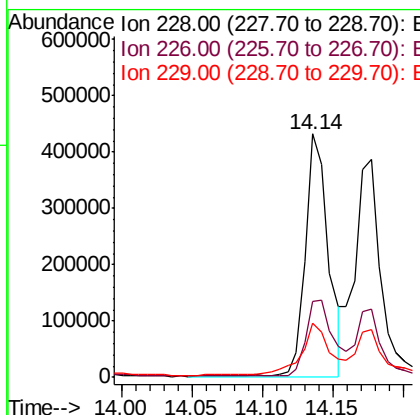
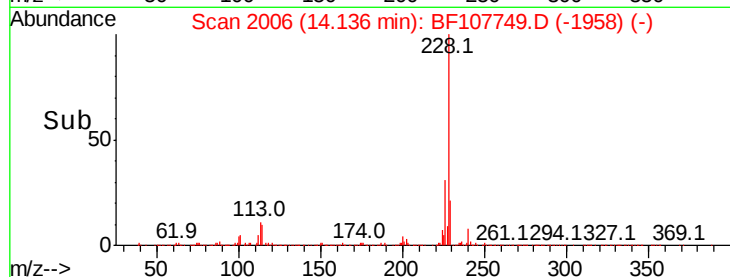
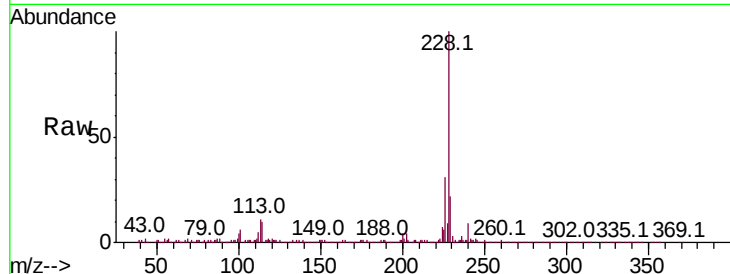
#80
Benzo(a)anthracene
Concen: 22.314 ng
RT: 14.14 min Scan# 2006
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.6	33.8
229	22.2	15.8	23.6

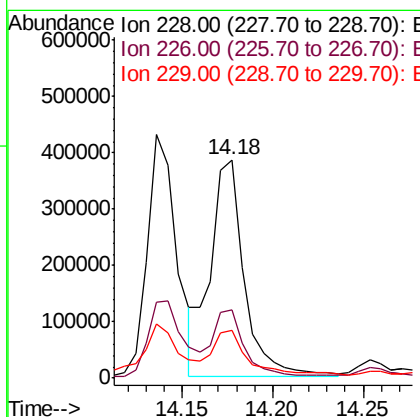
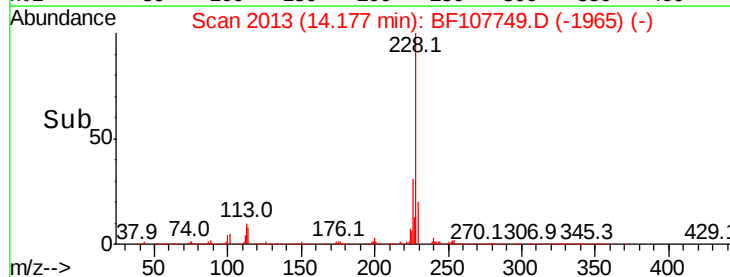
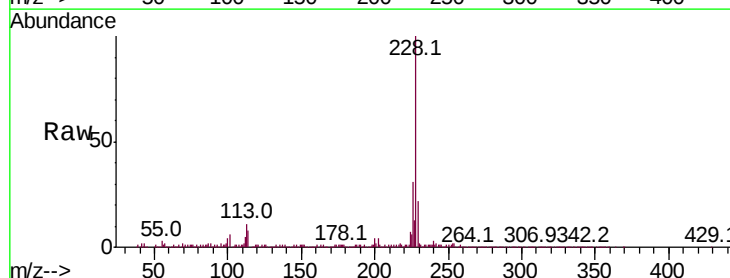
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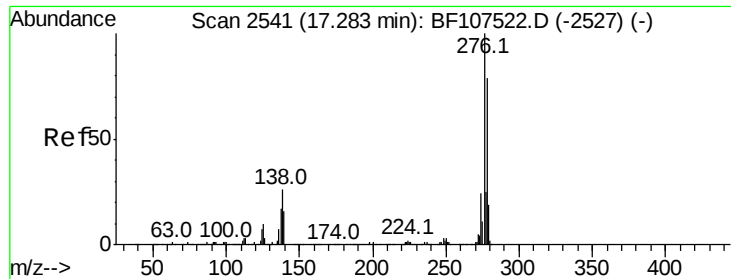
Sohil
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#82
Chrysene
Concen: 23.995 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	21.6	16.2	24.4





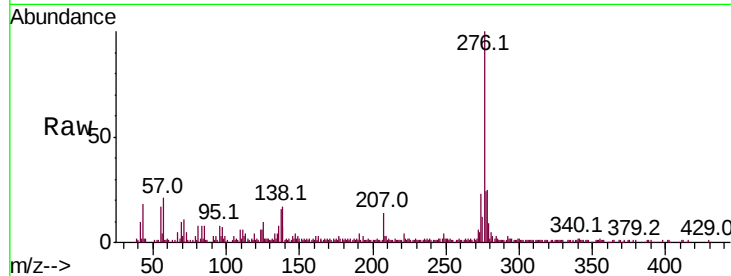
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.061 ng
RT: 17.26 min Scan# 2537
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

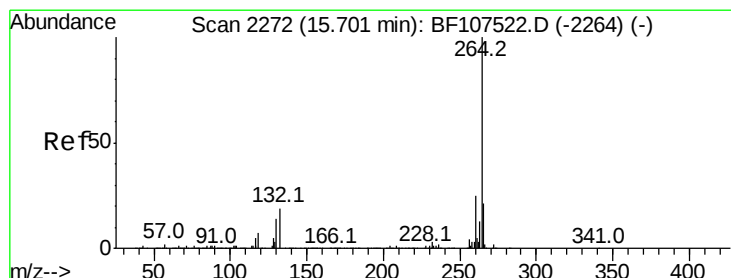
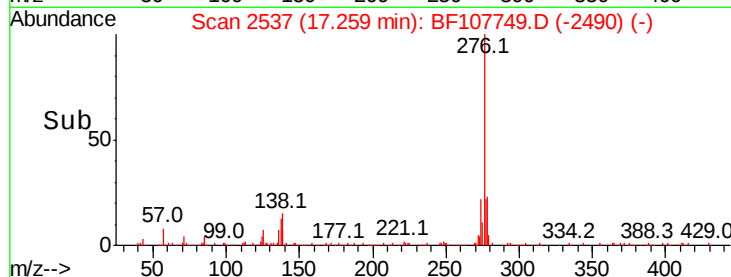
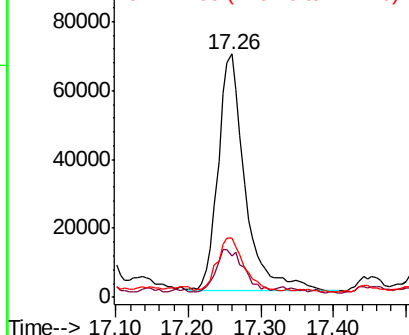
Tot Ion	Ratio	Lower	Upper
276	100		
138	18.1	25.0	37.6#
277	21.9	20.1	30.1

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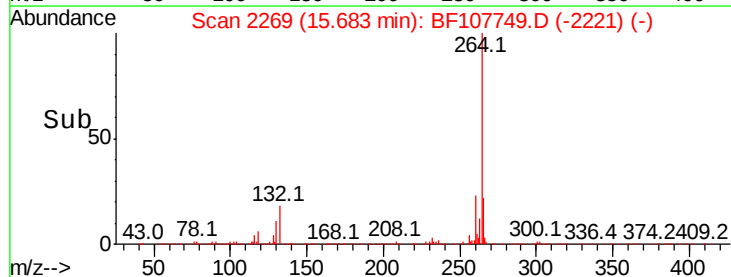
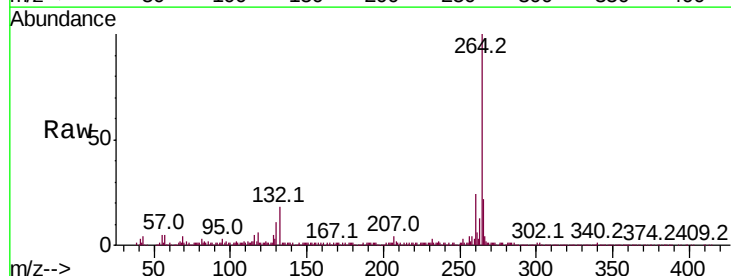
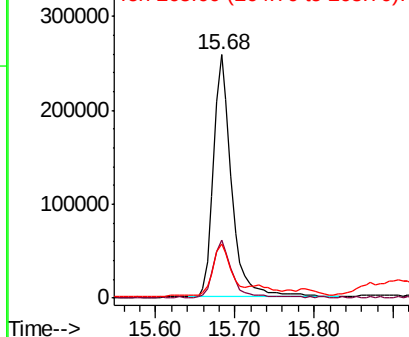
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

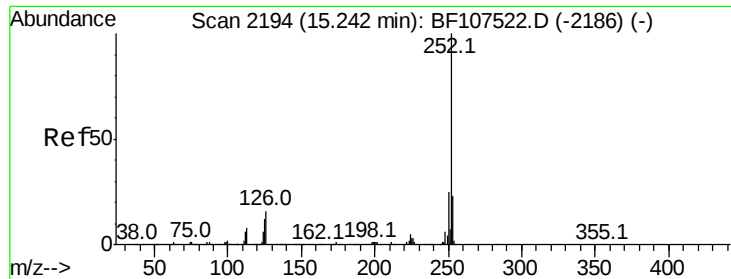


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	22.5	17.5	26.3

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





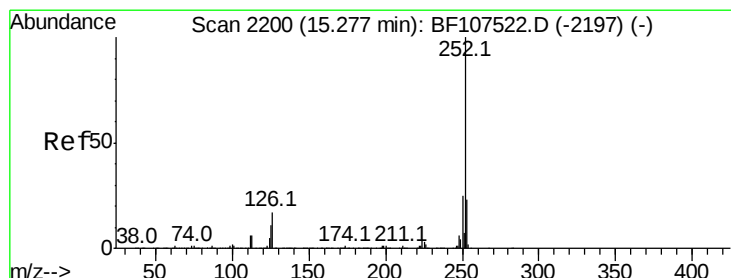
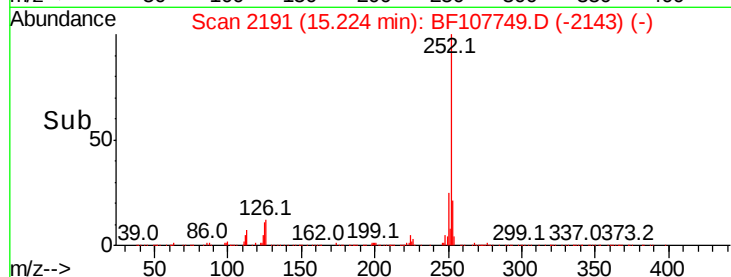
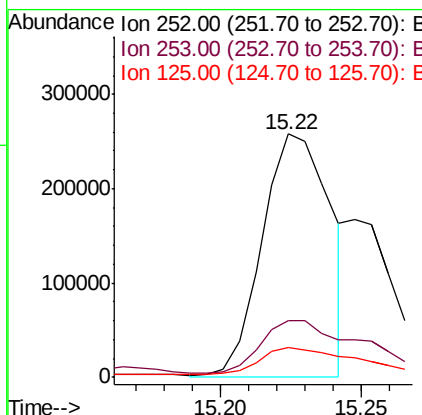
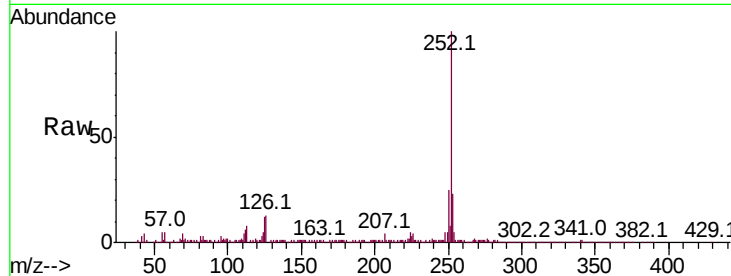
#87
Benzo(b)fluoranthene
Concen: 19.506 ng m
RT: 15.22 min Scan# 2191
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	12.5	9.0	13.6

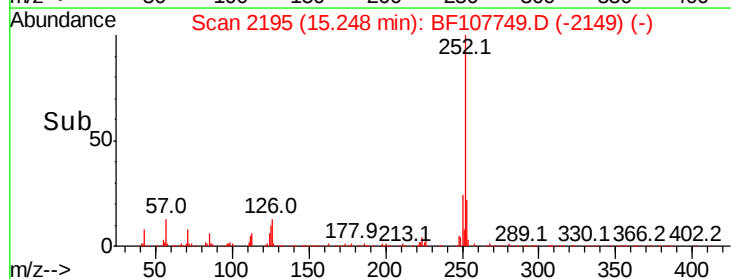
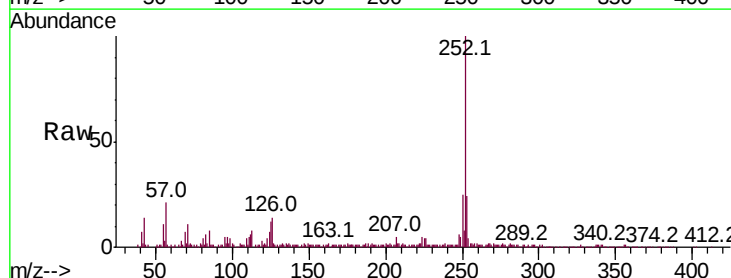
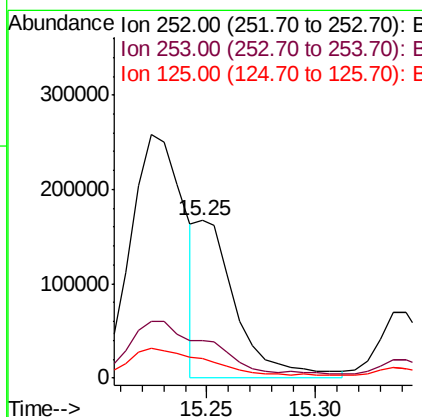
Manual Integrations
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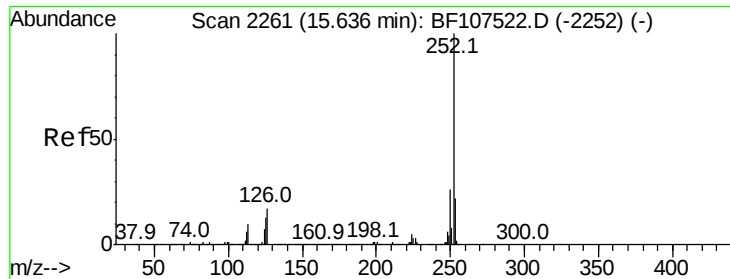
Sohil
7/30/2018 2:02:53 PM



#88
Benzo(k)fluoranthene
Concen: 9.802 ng m
RT: 15.25 min Scan# 2195
Delta R.T. -0.03 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	12.2	10.2	15.2





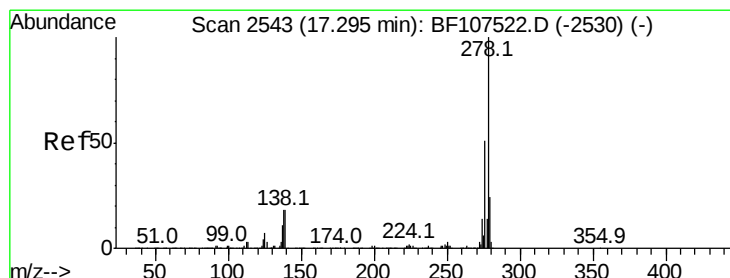
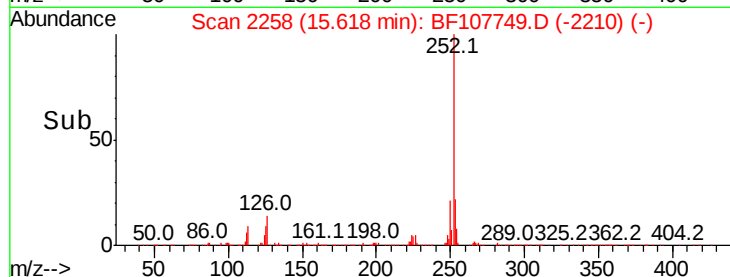
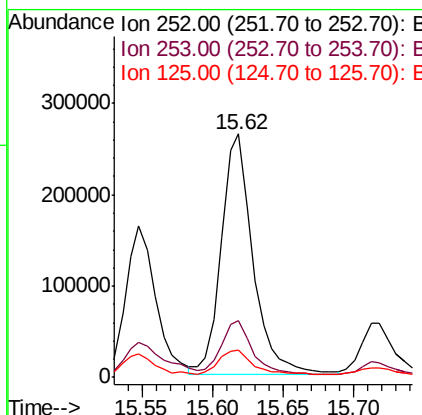
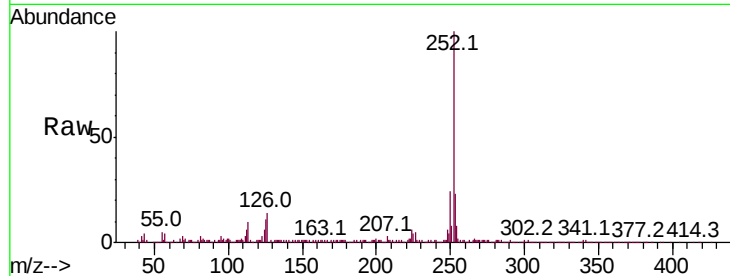
#89
Benzo(a)pyrene
Concen: 20.188 ng
RT: 15.62 min Scan# 2258
Delta R.T. -0.02 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	11.2	9.8	14.6

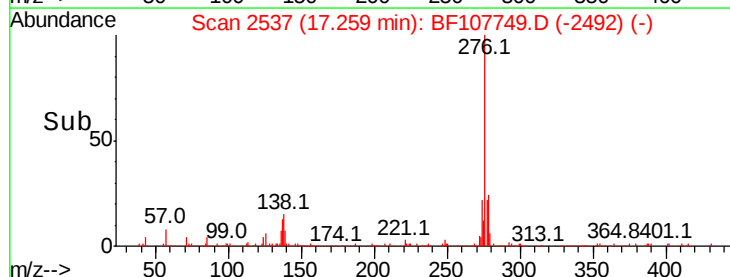
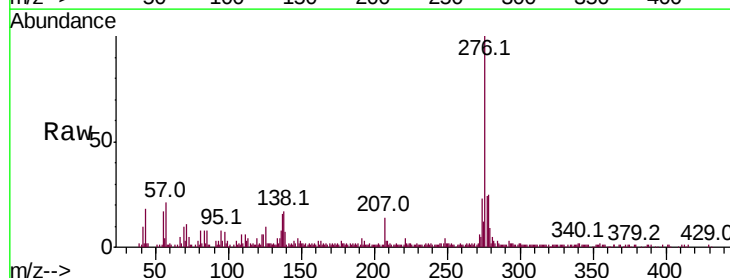
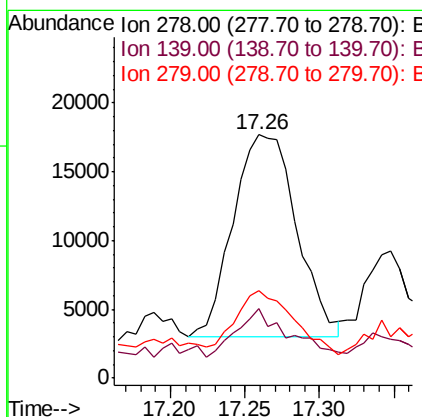
Manual Integrations
APPROVED

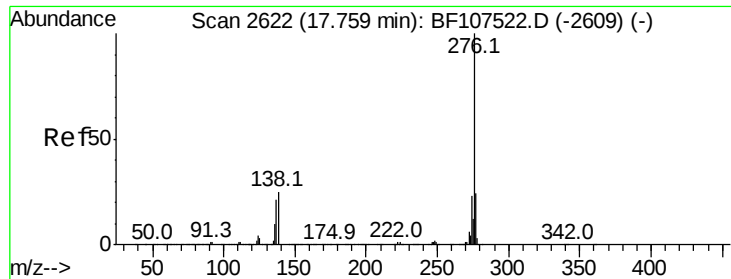
Sohil
7/30/2018 2:02:53 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.450 ng
RT: 17.26 min Scan# 2537
Delta R.T. -0.04 min
Lab File: BF107749.D
Acq: 27 Jul 2018 16:46

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.4	15.9	23.9#
279	35.7	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 9.094 ng
 RT: 17.74 min Scan# 2618
 Delta R.T. -0.02 min
 Lab File: BF107749.D
 Acq: 27 Jul 2018 16:46

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.2	17.9	26.9
138	20.6	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 7/30/2018 2:02:53 PM

