

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
 Data File : BF107272.D
 Acq On : 10 Jul 2018 15:02
 Operator : JU/SJ
 Sample : J3891-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230

Manual Integrations
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Sohil
 7/11/2018 11:22:41 AM

Quant Time: Jul 10 16:43:51 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 29 14:38:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	28833	20.00	ng	-0.02
21) Naphthalene-d8	8.22	136	100429	20.00	ng	-0.02
38) Acenaphthene-d10	9.98	164	47615	20.00	ng	-0.02
63) Phenanthrene-d10	11.48	188	102113	20.00	ng	-0.02
75) Chrysene-d12	14.14	240	101962	20.00	ng	-0.02
86) Perylene-d12	15.68	264	74693	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	167232	98.21	ng	-0.02
7) Phenol-d6	6.59	99	194960	91.69	ng	-0.02
23) Nitrobenzene-d5	7.51	82	113306	62.70	ng	-0.03
41) 2,4,6-Tribromophenol	10.78	330	52629	95.36	ng	-0.02
44) 2-Fluorobiphenyl	9.29	172	171202	55.79	ng	-0.03
78) Terphenyl-d14	13.07	244	208412	49.51	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.24	128	27005	5.751	ng	98
37) 2-Methylnaphthalene	8.94	142	7797	2.505	ng	95
49) Dimethylphthalate	9.69	163	36831	10.313	ng	97
51) Acenaphthene	10.02	154	9960	3.354	ng	99
54) Dibenzofuran	10.19	168	17642	4.339	ng	94
57) Fluorene	10.54	166	23095	7.157	ng	100
70) Phenanthrene	11.51	178	192854	39.157	ng	99
71) Anthracene	11.56	178	52573	10.458	ng	98
72) Carbazole	11.72	167	15941	3.387	ng	94
74) Fluoranthene	12.71	202	233539	43.021	ng	94
77) Pyrene	12.94	202	208697	31.039	ng	100
80) Benzo(a)anthracene	14.13	228	106560	17.148	ng	99
82) Chrysene	14.17	228	80662	14.109	ng	97
83) Bis(2-ethylhexyl)phthalate	14.08	149	7437	2.104	ng	# 91
85) Indeno(1,2,3-cd)pyrene	17.27	276	34483	7.107	ng	# 90
87) Benzo(b)fluoranthene	15.22	252	86275m	18.594	ng	
88) Benzo(k)fluoranthene	15.25	252	30100m	6.812	ng	
89) Benzo(a)pyrene	15.62	252	63713	15.446	ng	96
90) Dibenzo(a,h)anthracene	17.28	278	10999	3.146	ng	# 92
91) Benzo(a,h,i)perylene	17.76	276	34510	10.100	ng	# 92

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

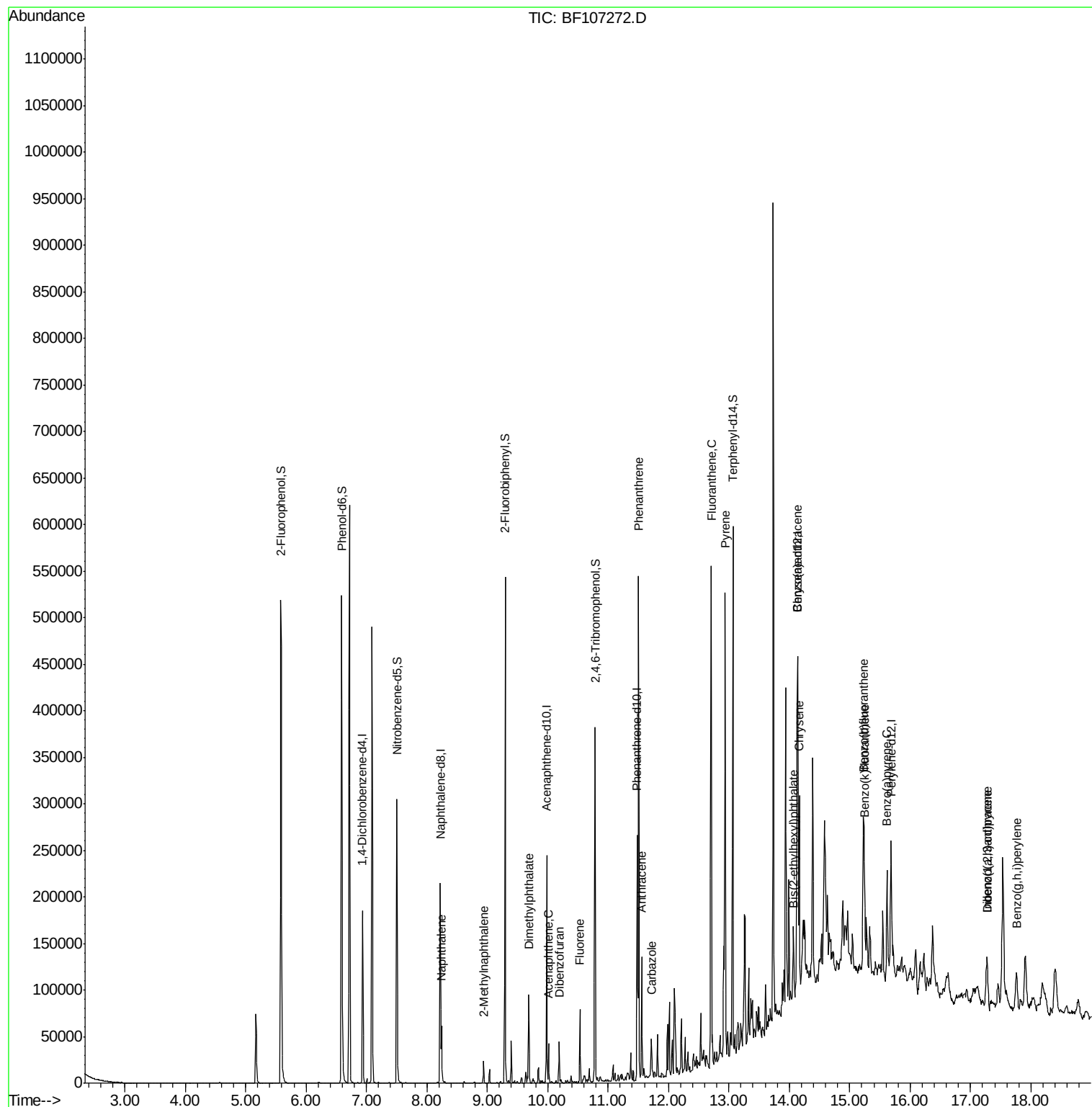
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
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ALS Vial : 12 Sample Multiplier: 1

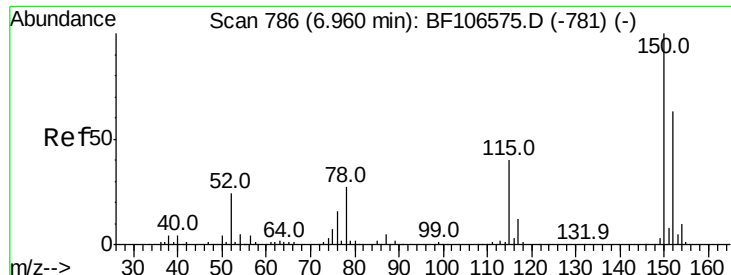
Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

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

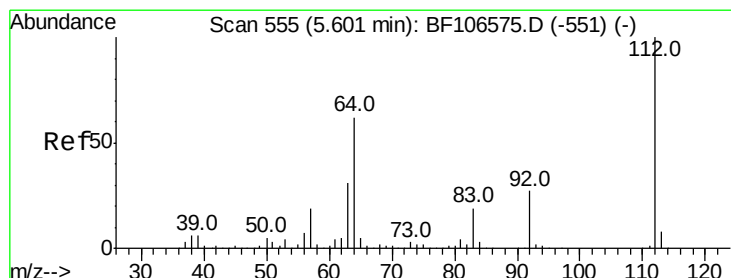
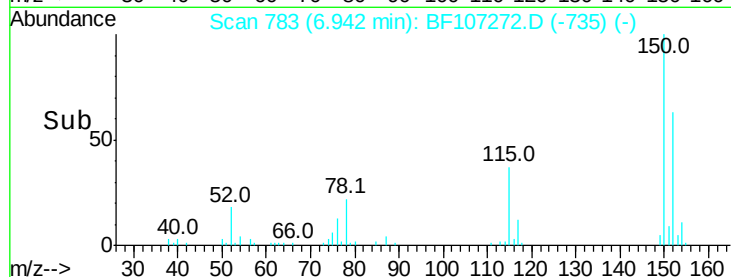
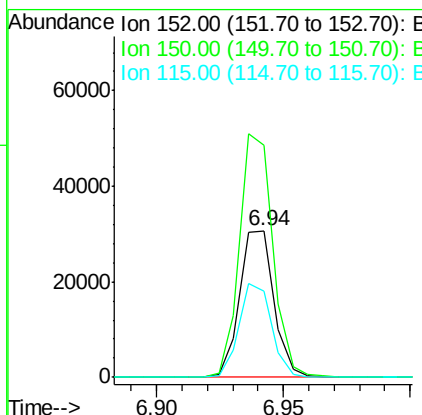
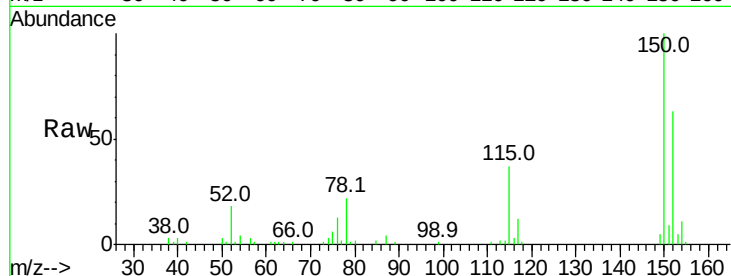
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 783
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	124.6	186.8
115	58.5	50.1	75.1

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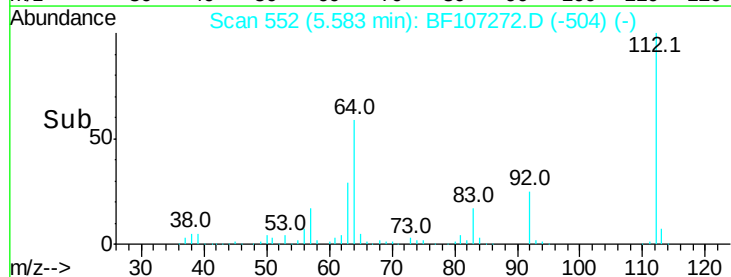
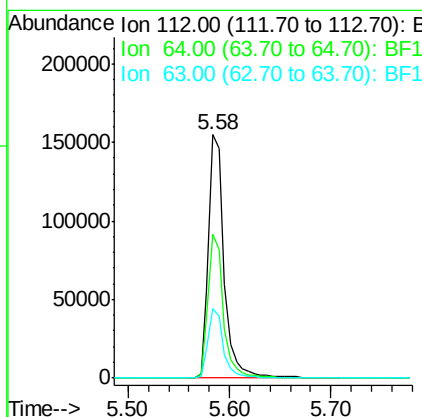
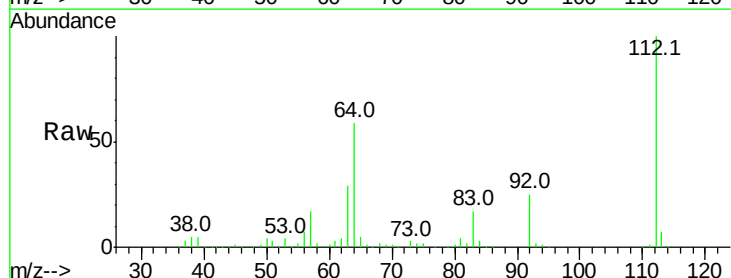
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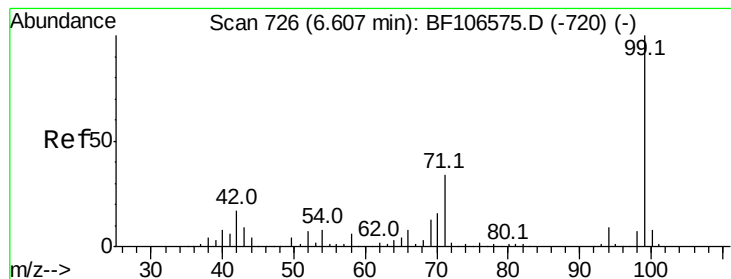


#5

2-Fluorophenol
Concen: 98.213 ng
RT: 5.58 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.9	71.9
63	28.6	23.7	35.5





#7

Phenol-d6

Concen: 91.685 ng

RT: 6.59 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Instrument :

BNA_F

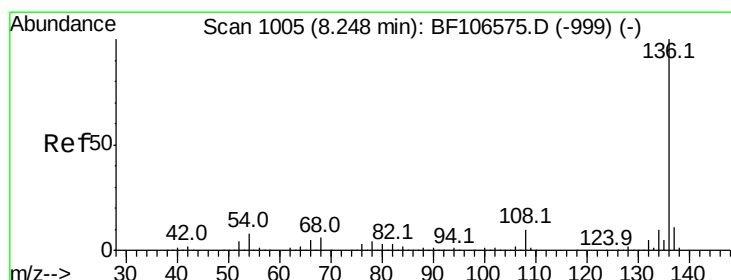
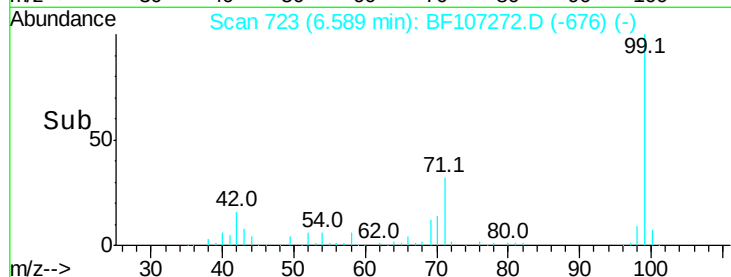
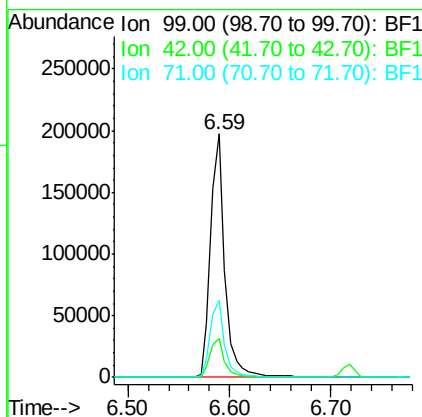
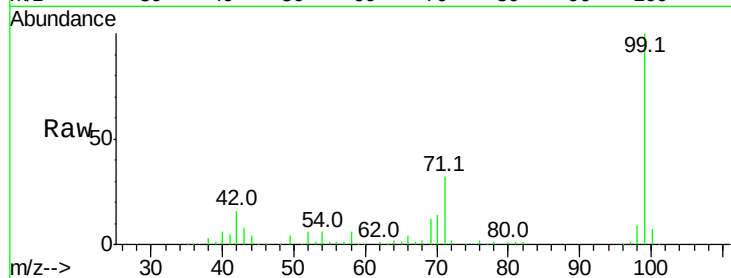
ClientSampleId :

72-12002-RBR-RBR-VNJ-230

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		194960		
42	15.8	14.5	21.7		
71	31.8	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

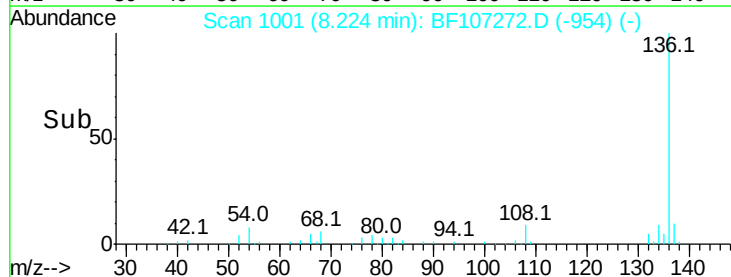
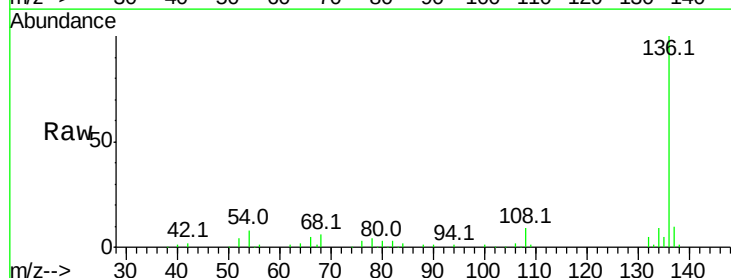
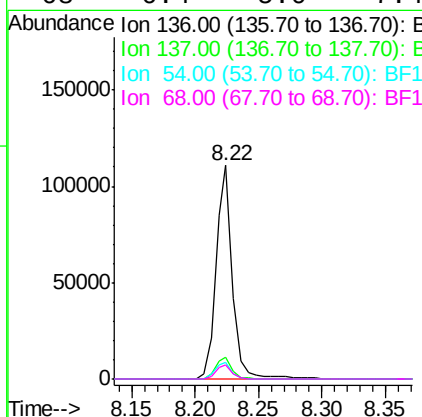
RT: 8.22 min Scan# 1001

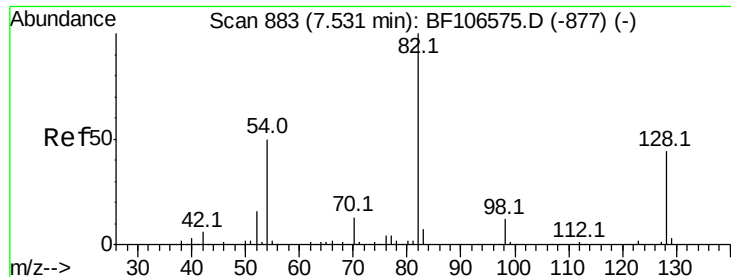
Delta R.T. -0.02 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		100429		
137	10.4	8.9	13.3		
54	7.6	6.6	9.8		
68	6.4	5.0	7.4		





#23

Nitrobenzene-d5

Concen: 62.699 ng

RT: 7.51 min Scan# 879

Delta R.T. -0.03 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Instrument :

BNA_F

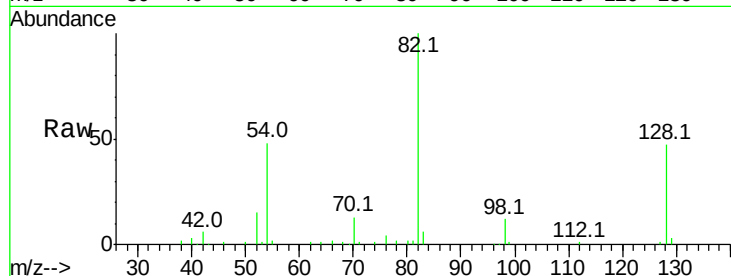
ClientSampleId :

72-12002-RBR-RBR-VNJ-230

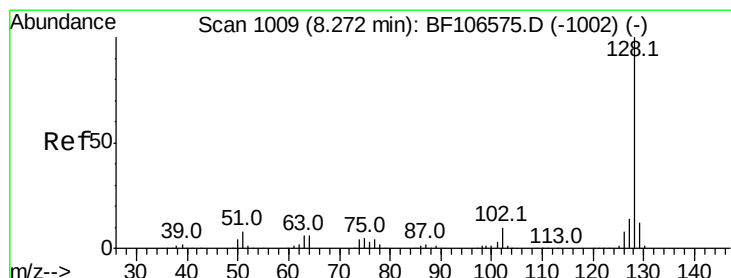
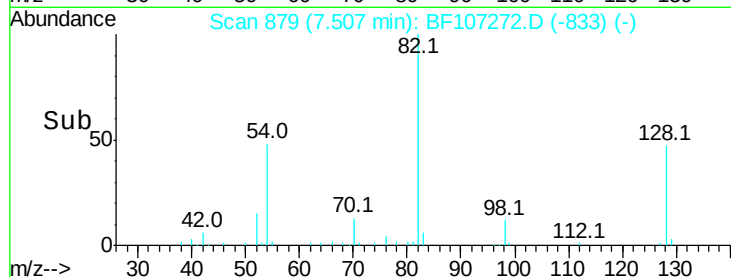
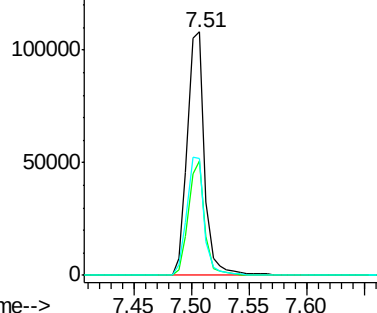
Tot Ion:	82	Resp:	113306
Ion Ratio	Lower	Upper	
82	100		
128	47.0	36.1	54.1
54	47.8	41.4	62.2

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



#31

Naphthalene

Concen: 5.751 ng

RT: 8.24 min Scan# 1004

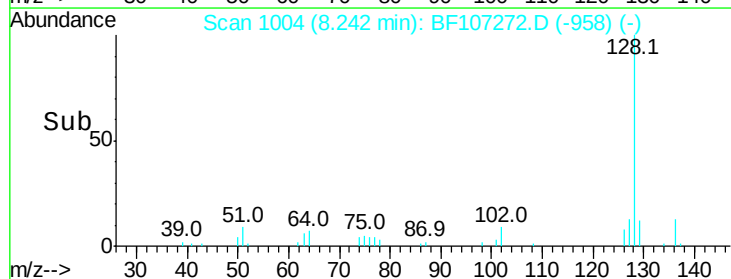
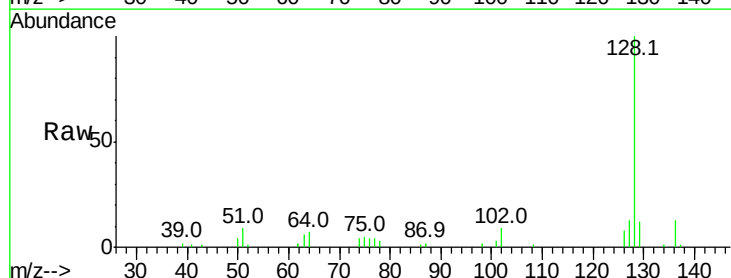
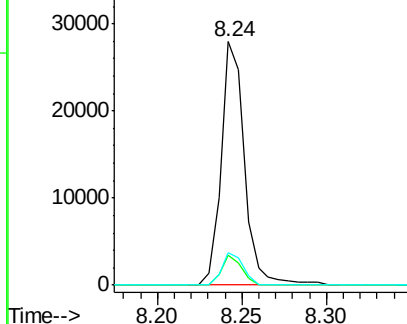
Delta R.T. -0.03 min

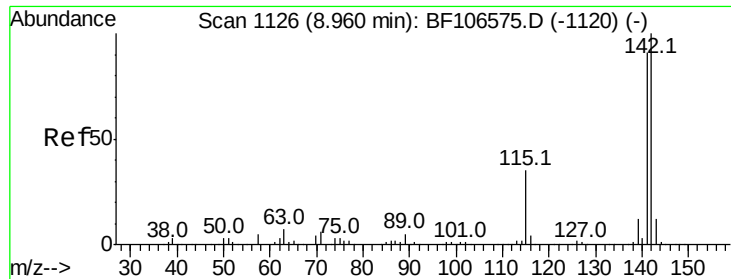
Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Tgt Ion:	128	Resp:	27005
Ion Ratio	Lower	Upper	
128	100		
129	12.1	8.8	13.2
127	13.3	10.9	16.3

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





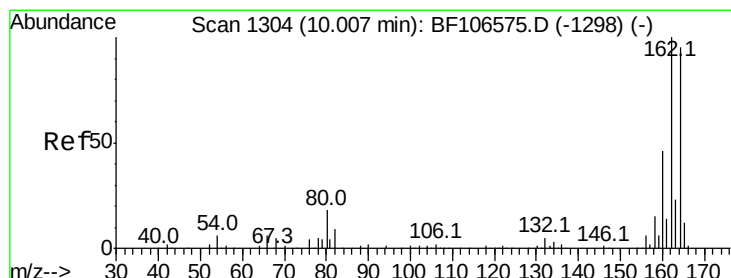
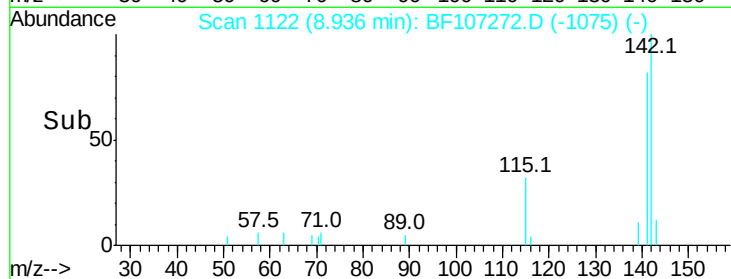
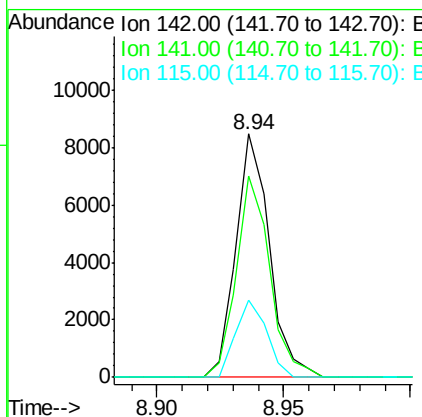
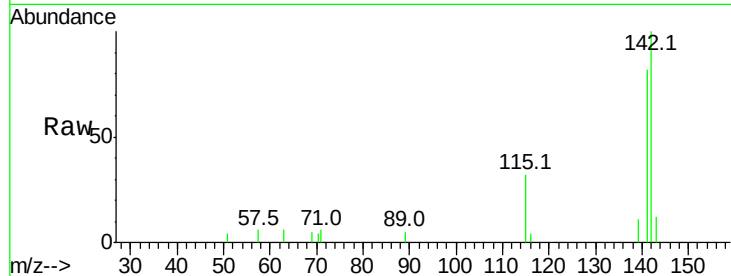
#37
2-Methylnaphthalene
Concen: 2.505 ng
RT: 8.94 min Scan# 1122
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Lower	Upper
142	100		
141	82.5	70.8	106.2
115	31.6	26.1	39.1

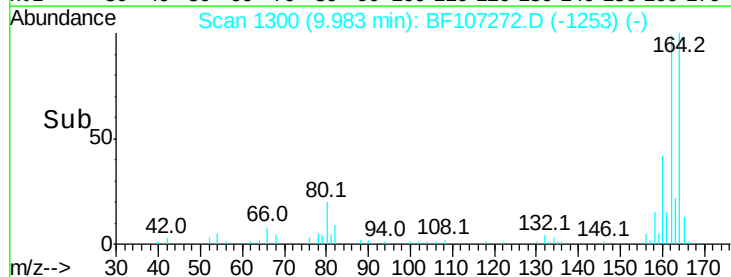
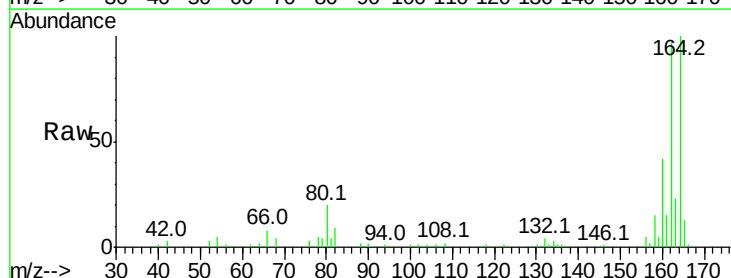
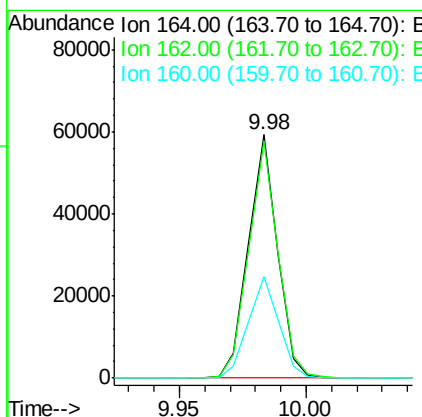
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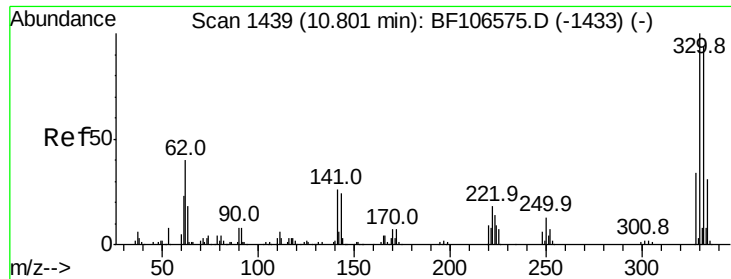
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.5	86.1	129.1
160	41.6	38.3	57.5





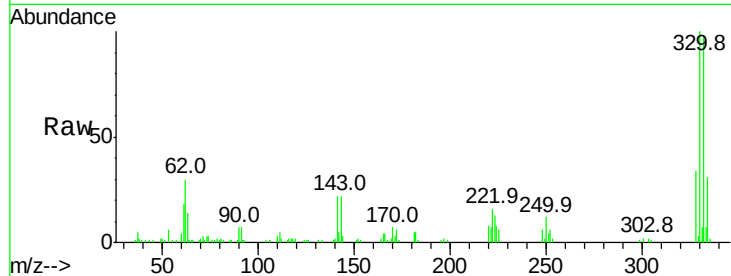
#41
 2,4,6-Tribromophenol
 Concen: 95.365 ng
 RT: 10.78 min Scan# 1436
 Delta R.T. -0.02 min
 Lab File: BF107272.D
 Acq: 10 Jul 2018 15:02

Instrument :
 BNA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230

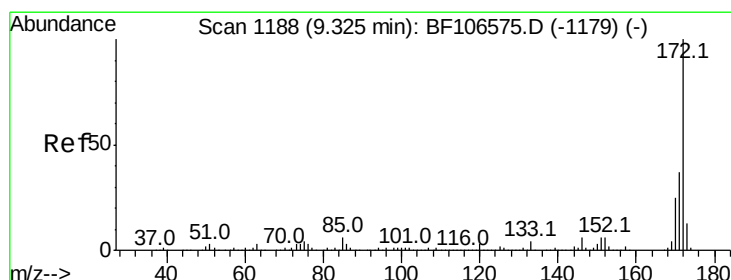
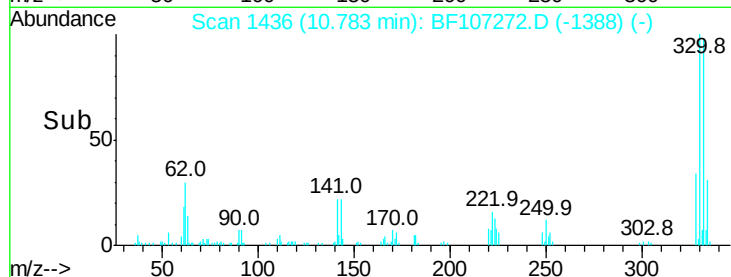
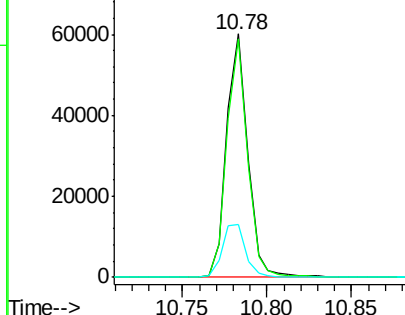
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.9	77.0	115.6	
141	23.9	29.9	44.9	

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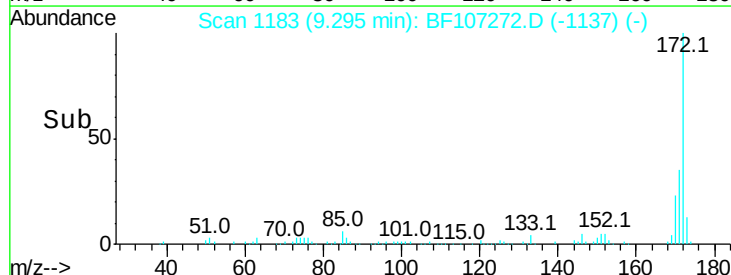
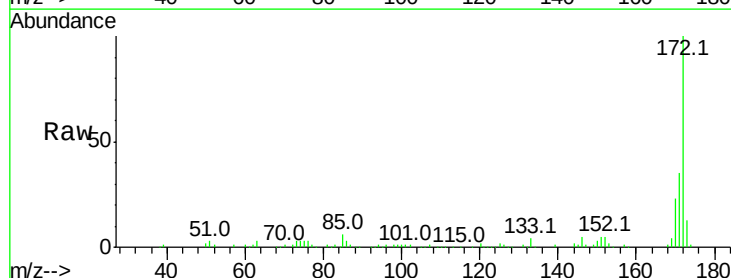
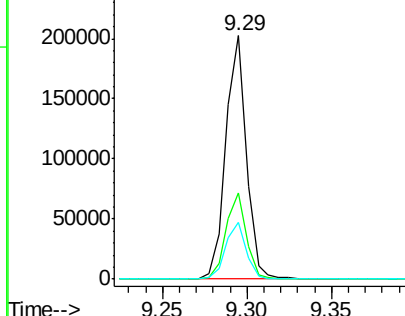
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

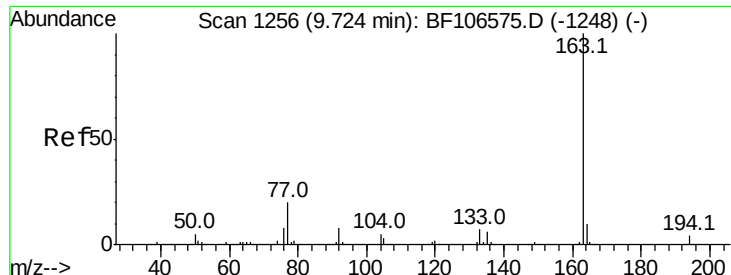


#44
 2-Fluorobiphenyl
 Concen: 55.790 ng
 RT: 9.29 min Scan# 1183
 Delta R.T. -0.03 min
 Lab File: BF107272.D
 Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.5	29.7	44.5	
170	23.5	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





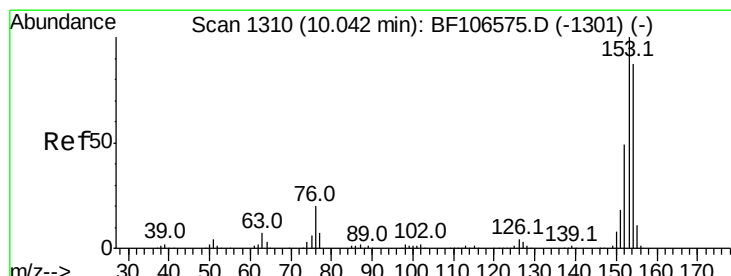
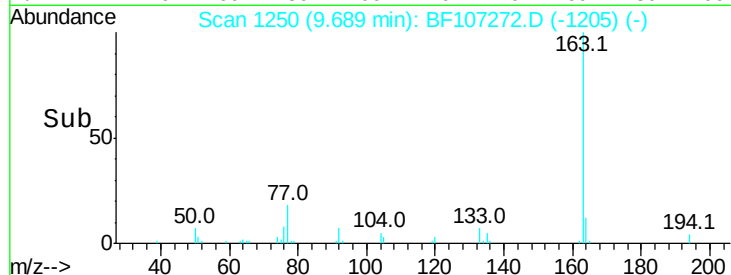
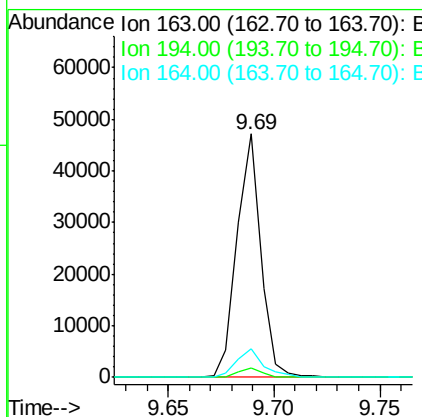
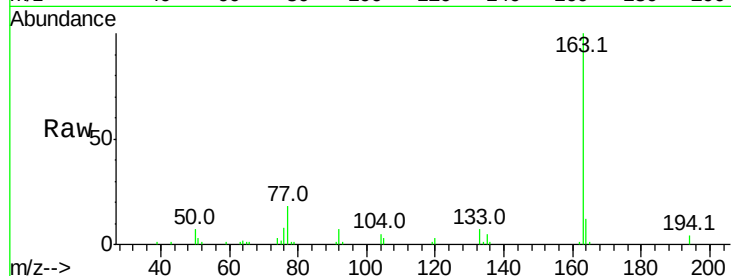
#49
Dimethylphthalate
Concen: 10.313 ng
RT: 9.69 min Scan# 1250
Delta R.T. -0.04 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.9	2.7	4.1	
164	11.5	8.2	12.2	

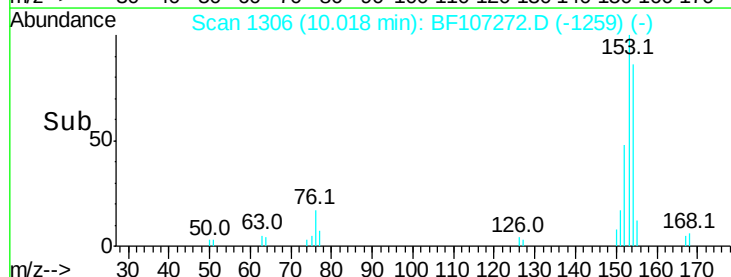
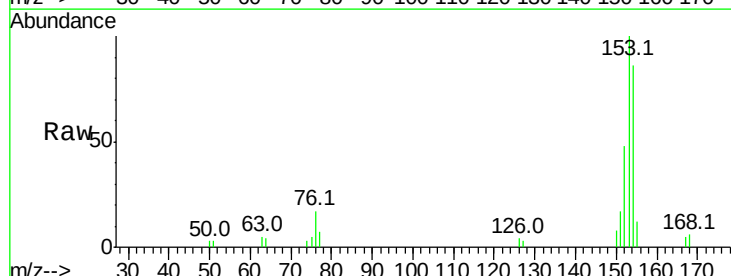
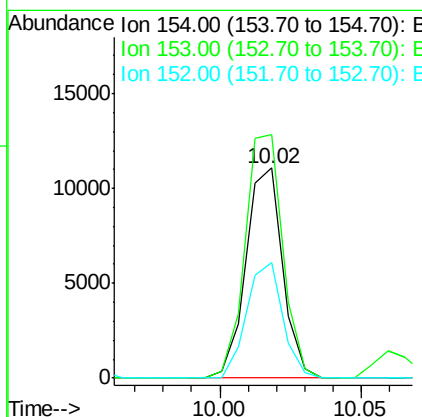
Manual Integrations
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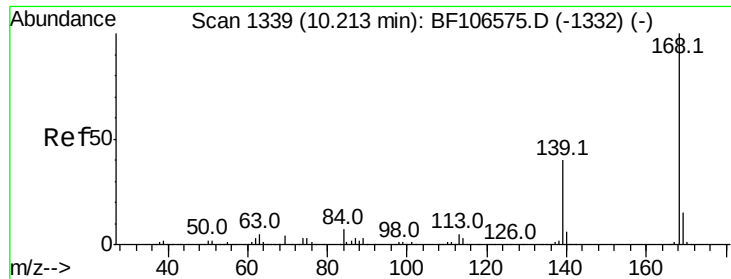
Sohil
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#51
Acenaphthene
Concen: 3.354 ng
RT: 10.02 min Scan# 1306
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	115.8	91.2	136.8	
152	55.2	43.8	65.8	





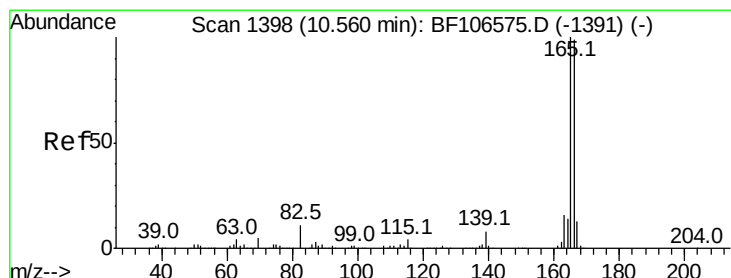
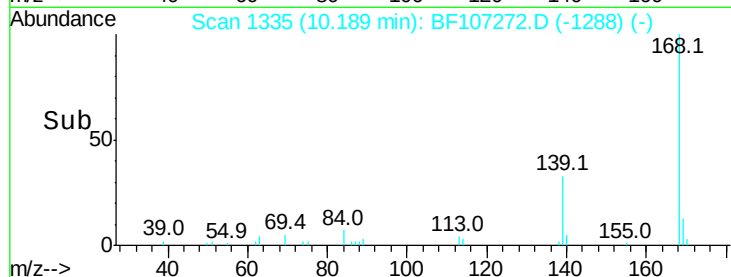
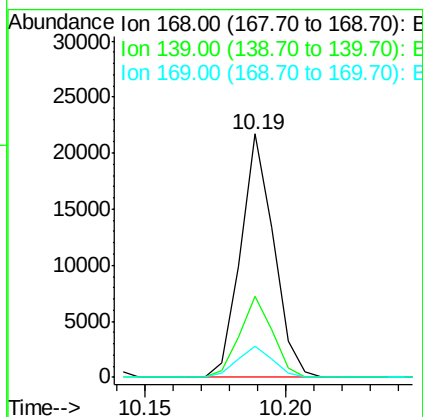
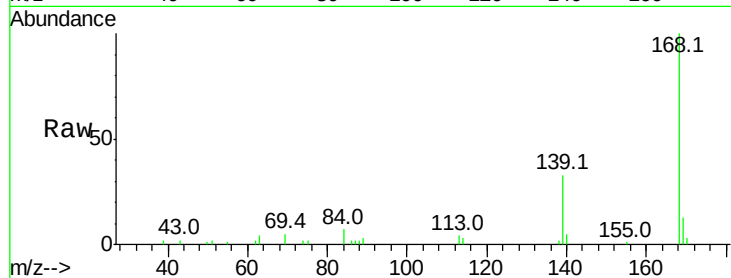
#54
Dibenzenofuran
Concen: 4.339 ng
RT: 10.19 min Scan# 1335
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Lower	Upper
168	100		
139	33.3	30.1	45.1
169	12.8	10.9	16.3

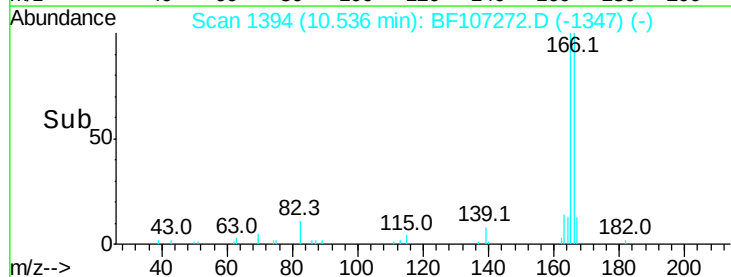
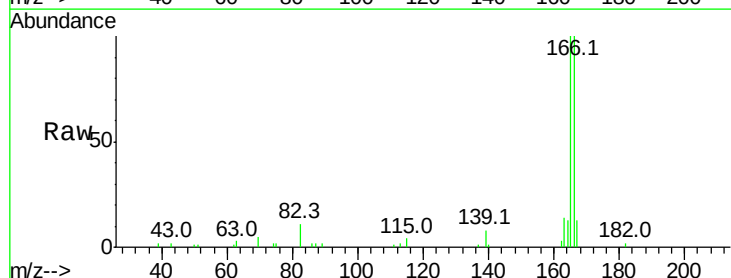
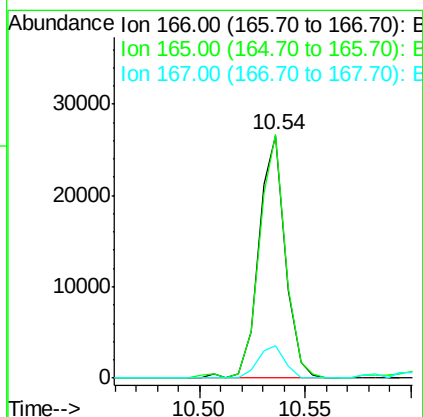
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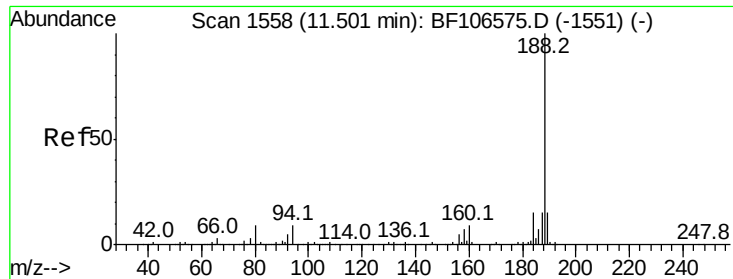
Sohil
7/11/2018 11:22:41 AM



#57
Fluorene
Concen: 7.157 ng
RT: 10.54 min Scan# 1394
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.2	79.8	119.8
167	13.2	10.6	16.0





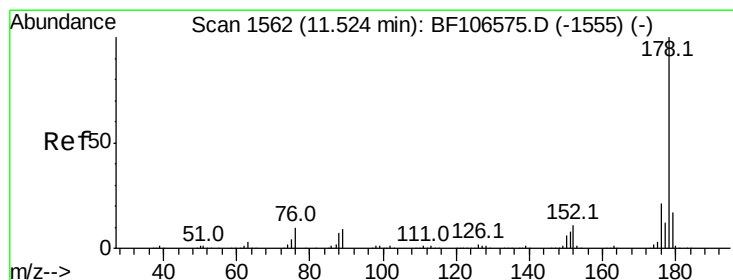
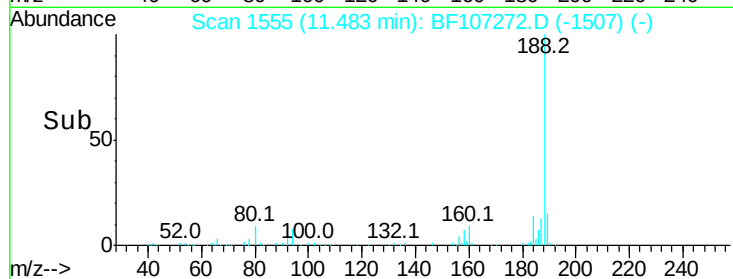
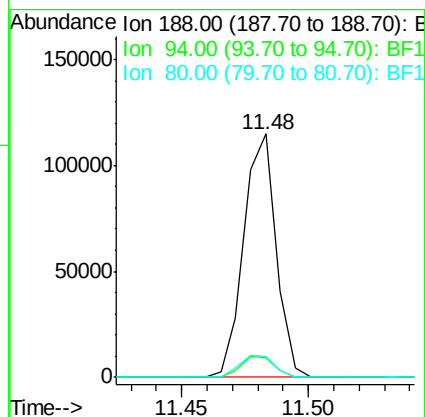
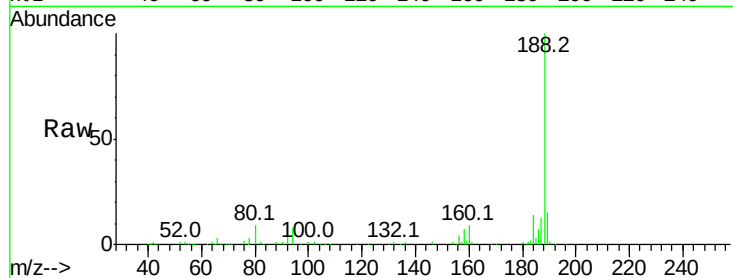
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.48 min Scan# 1555
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Resp	Lower	Upper
188	100	102113		
94	8.3		8.5	12.7#
80	8.8		9.2	13.8#

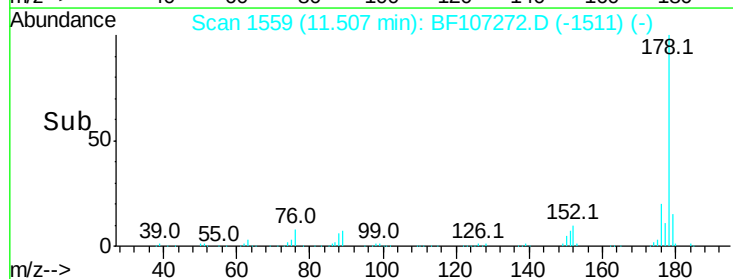
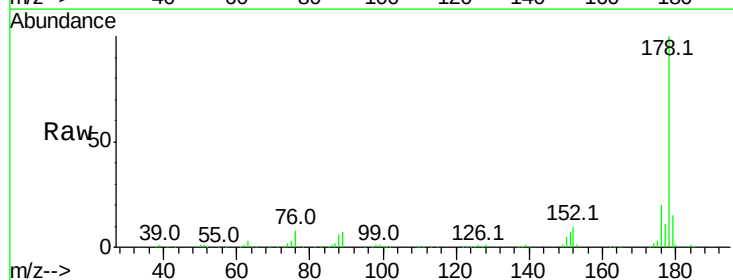
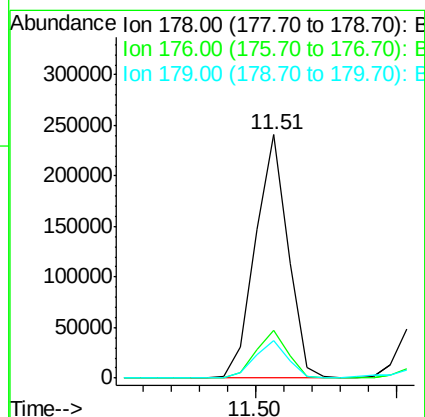
Manual Integrations
APPROVED

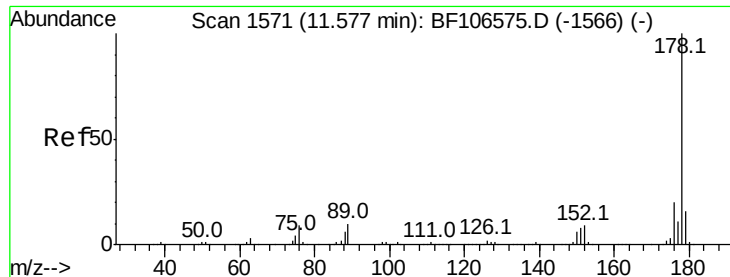
Sohil
7/11/2018 11:22:41 AM



#70
Phenanthrene
Concen: 39.157 ng
RT: 11.51 min Scan# 1559
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	192854		
176	19.5		15.8	23.8
179	15.3		13.0	19.6





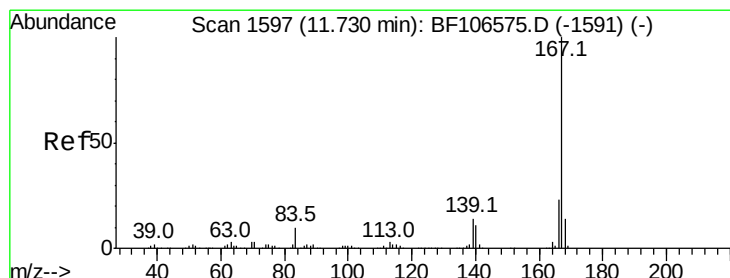
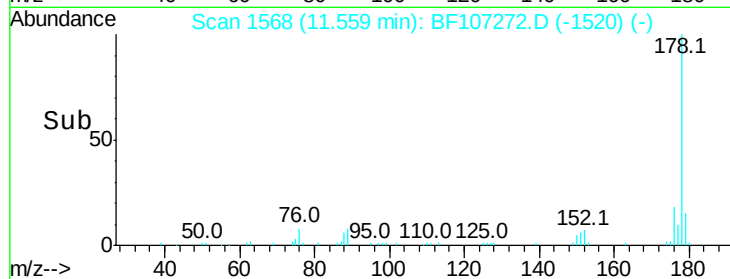
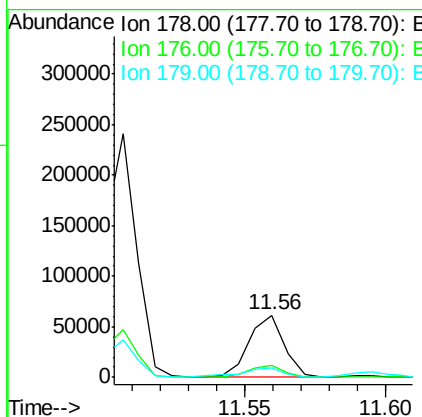
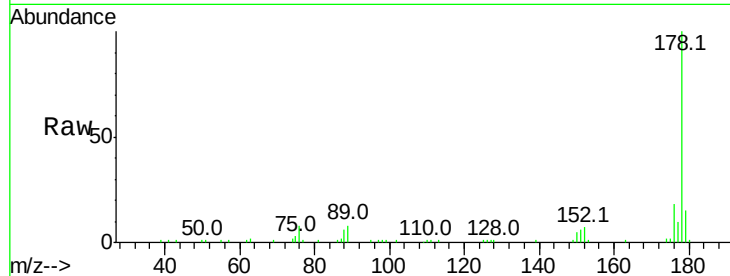
#71
 Anthracene
 Concen: 10.458 ng
 RT: 11.56 min Scan# 1568
 Delta R.T. -0.02 min
 Lab File: BF107272.D
 Acq: 10 Jul 2018 15:02

Instrument :
 BNA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.4	12.6	19.0

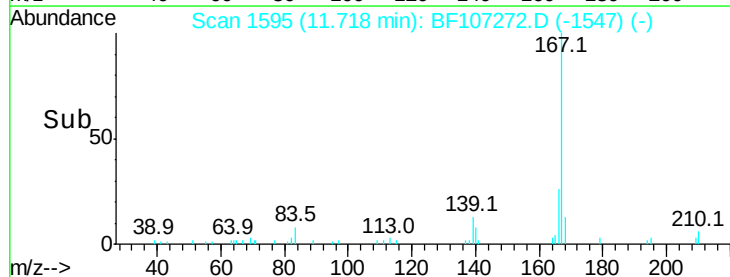
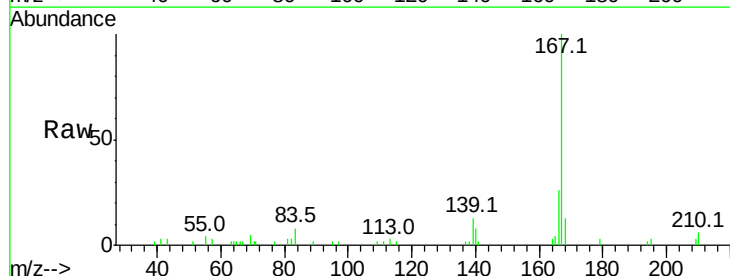
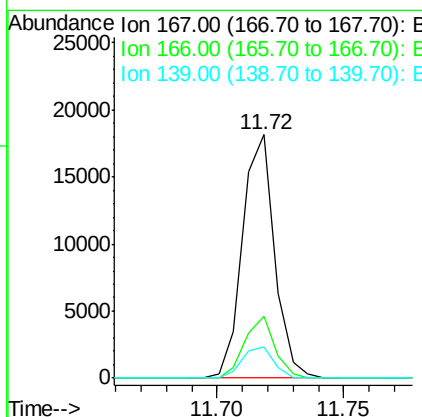
Manual Integrations
 APPROVED

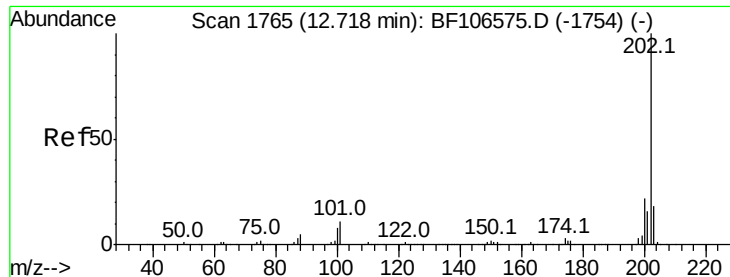
Sohil
 7/11/2018 11:22:41 AM



#72
 Carbazole
 Concen: 3.387 ng
 RT: 11.72 min Scan# 1595
 Delta R.T. -0.02 min
 Lab File: BF107272.D
 Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Lower	Upper
167	100		
166	25.6	17.6	26.4
139	12.8	10.9	16.3





#74

Fluoranthene

Concen: 43.021 ng

RT: 12.71 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Instrument :

BNA_F

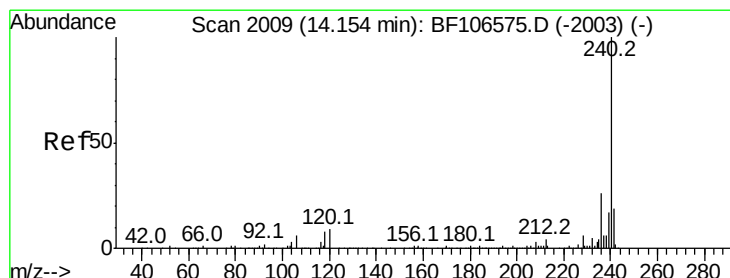
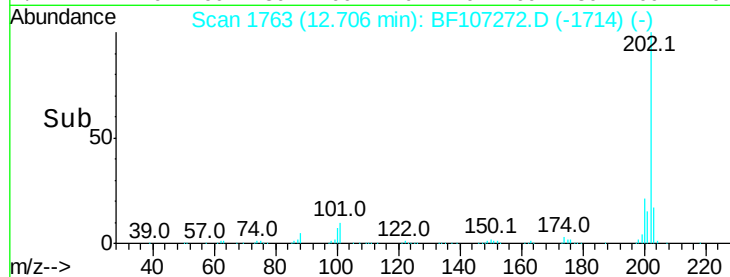
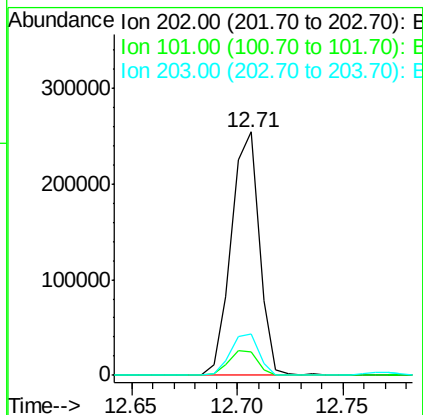
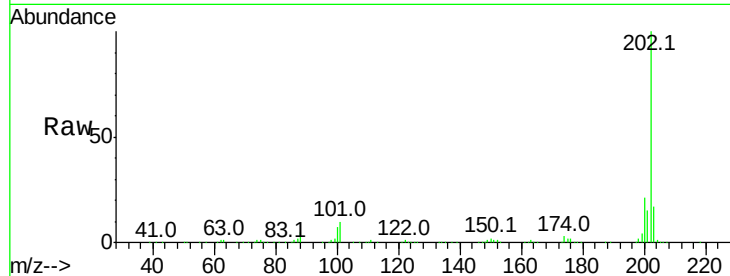
ClientSampleId :

72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.8	0.0	34.1
203	17.2	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

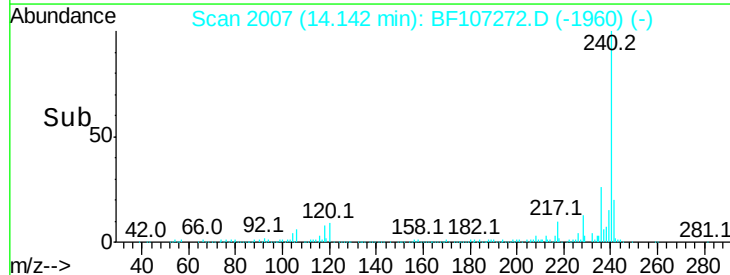
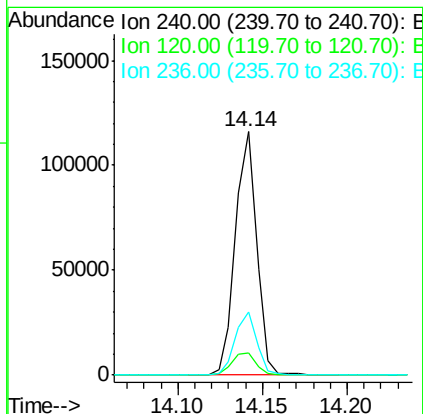
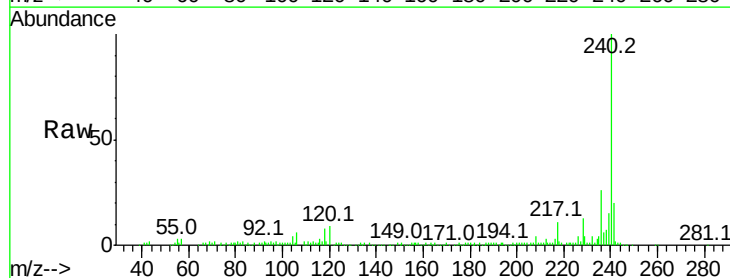
RT: 14.14 min Scan# 2007

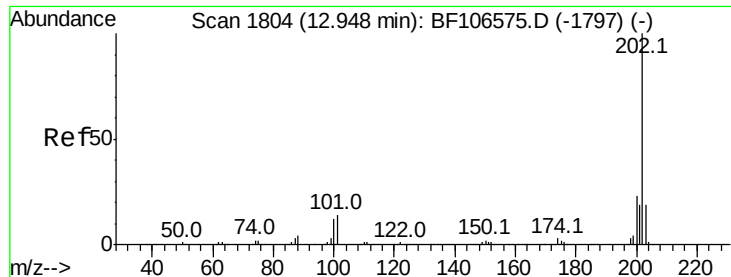
Delta R.T. -0.02 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	9.0	9.5	14.3#
236	25.8	20.7	31.1





#77

Pvrene

Concen: 31.039 ng

RT: 12.94 min Scan# 1802

Delta R.T. -0.01 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Instrument :

BNA_F

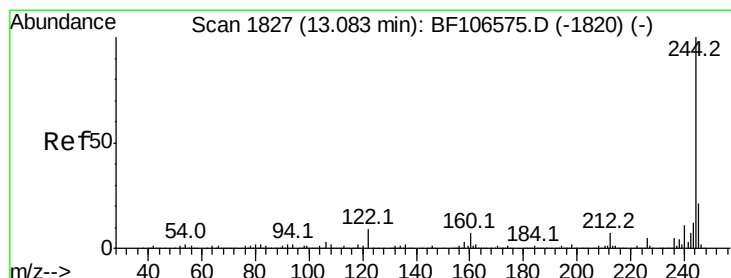
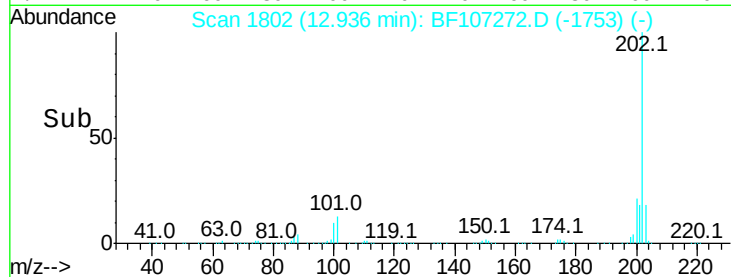
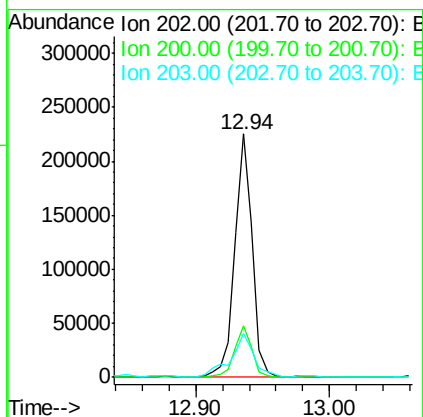
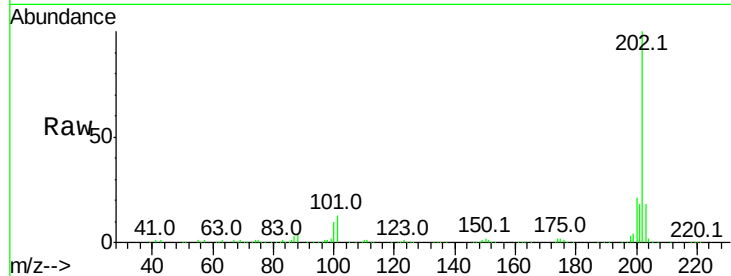
ClientSampleId :

72-12002-RBR-RBR-VNJ-230

Tot Ion:	202	Resp:	208697
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.4	26.2
203	18.0	14.3	21.5

Manual Integrations
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#78

Terphenyl-d14

Concen: 49.512 ng

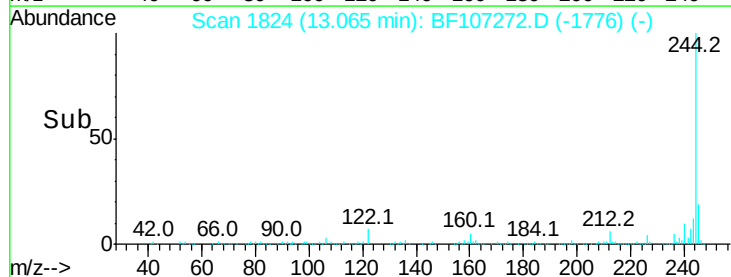
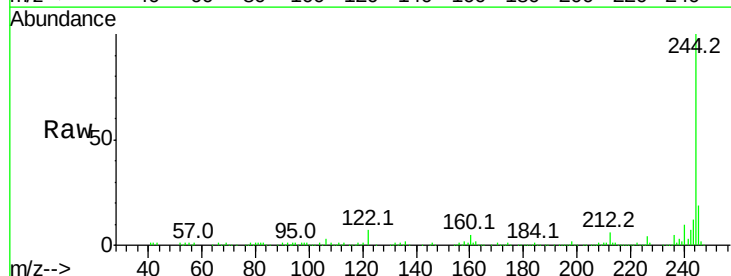
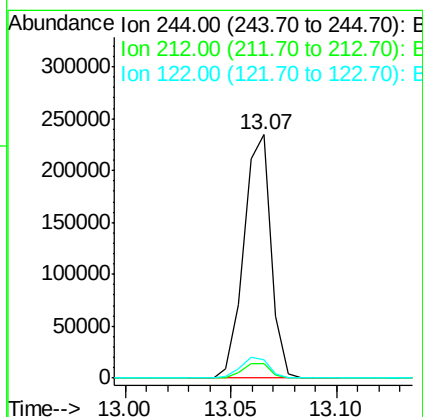
RT: 13.07 min Scan# 1824

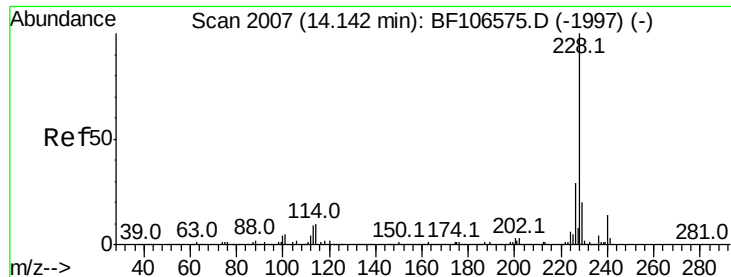
Delta R.T. -0.02 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Tgt Ion:	244	Resp:	208412
Ion Ratio	Lower	Upper	
244	100		
212	6.1	5.4	8.0
122	7.4	11.0	16.4#





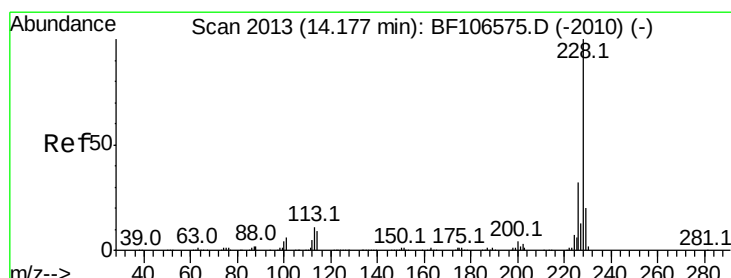
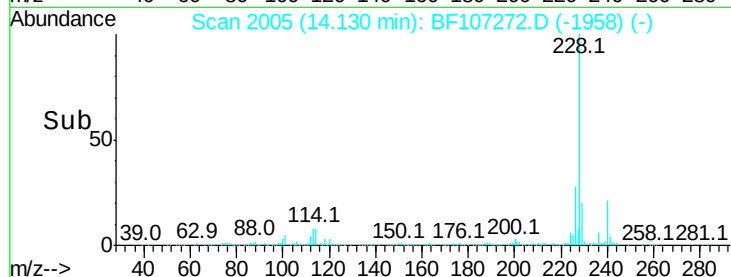
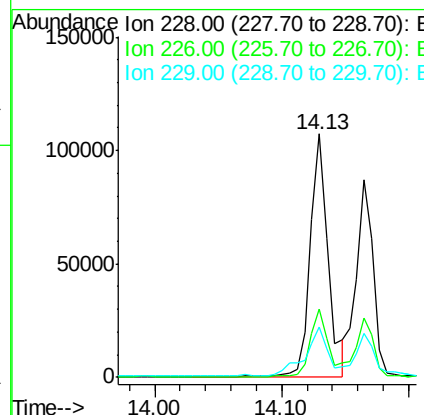
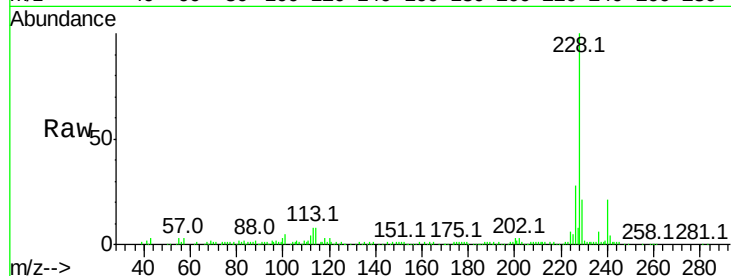
#80
Benzo(a)anthracene
Concen: 17.148 ng
RT: 14.13 min Scan# 2005
Delta R.T. -0.02 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Resp	Lower	Upper
228	100			
226	28.1	22.6	33.8	
229	20.6	15.8	23.6	

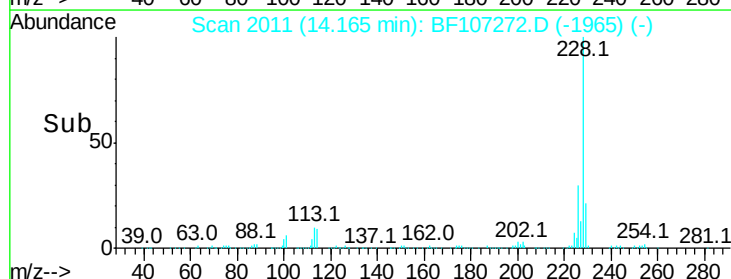
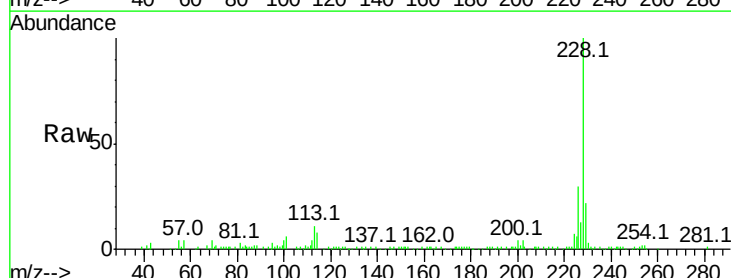
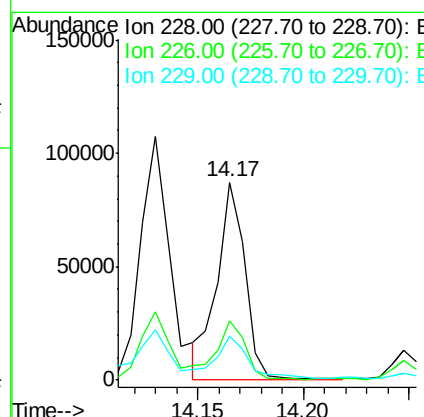
Manual Integrations
APPROVED

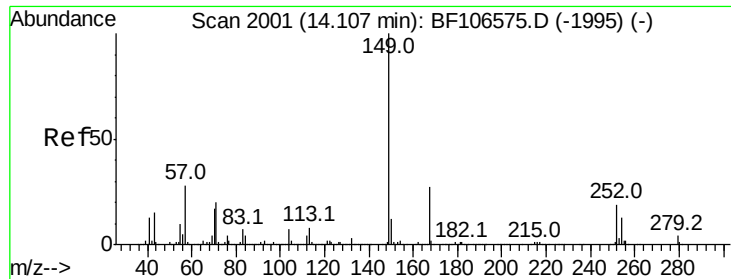
Sohil
7/11/2018 11:22:41 AM



#82
Chrysene
Concen: 14.109 ng
RT: 14.17 min Scan# 2011
Delta R.T. -0.03 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	30.2	25.0	37.6	
229	21.9	16.2	24.4	





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.104 ng

RT: 14.08 min Scan# 1996

Delta R.T. -0.04 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Instrument :

BNA_F

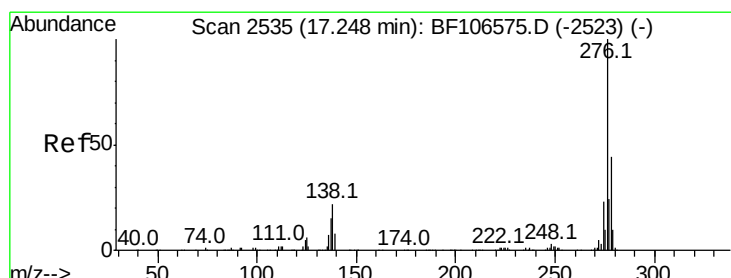
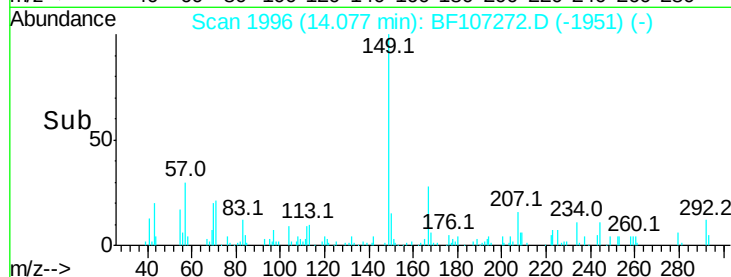
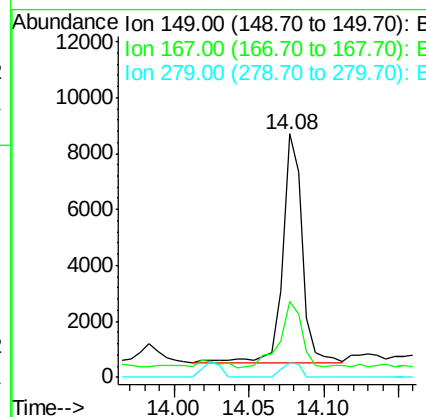
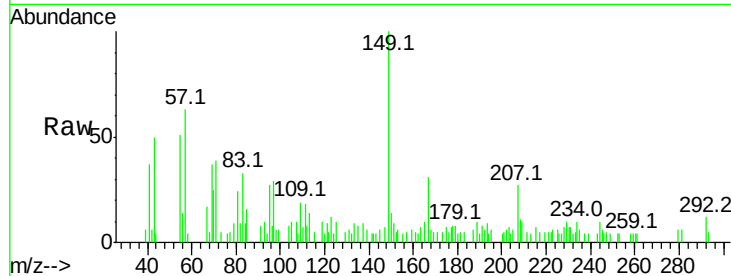
ClientSampleId :

72-12002-RBR-RBR-VNJ-230

Tot Ion:	149	Resp:	7437
Ion Ratio	Lower	Upper	
149	100		
167	31.3	21.3	31.9
279	5.7	3.0	4.4#

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 7.107 ng

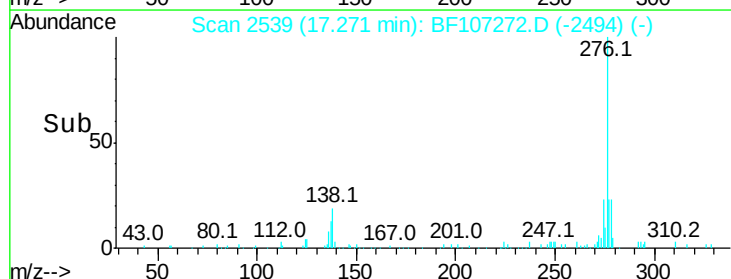
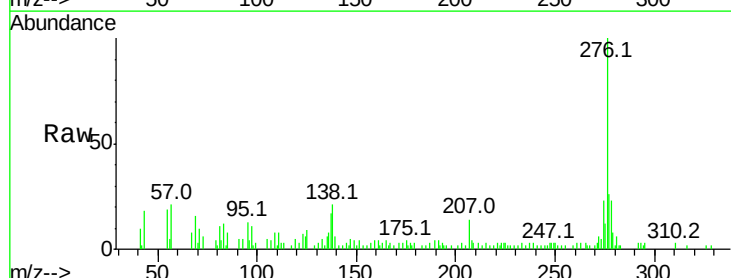
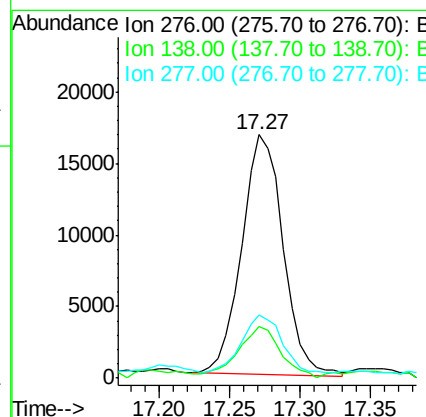
RT: 17.27 min Scan# 2539

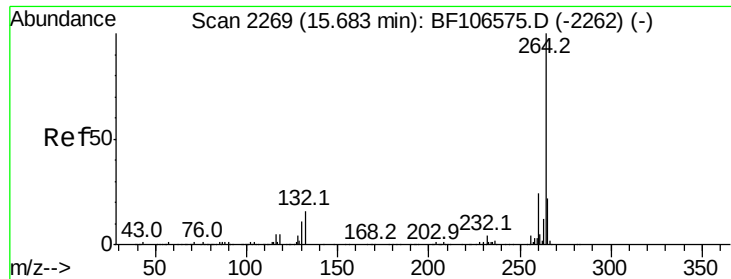
Delta R.T. -0.04 min

Lab File: BF107272.D

Acq: 10 Jul 2018 15:02

Tgt Ion:	276	Resp:	34483
Ion Ratio	Lower	Upper	
276	100		
138	22.2	25.0	37.6#
277	23.7	20.1	30.1





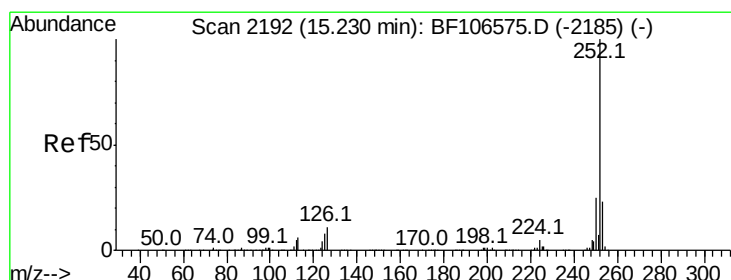
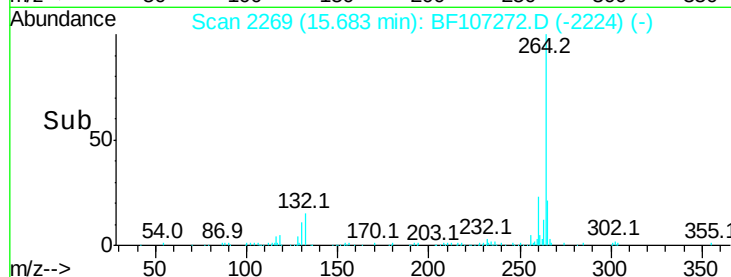
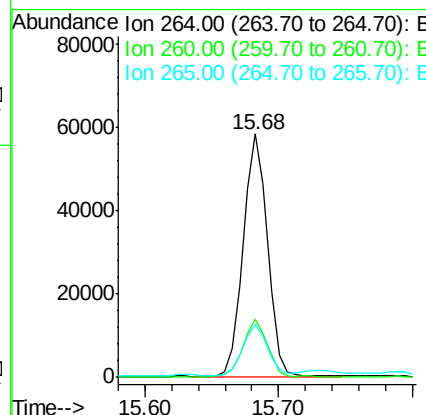
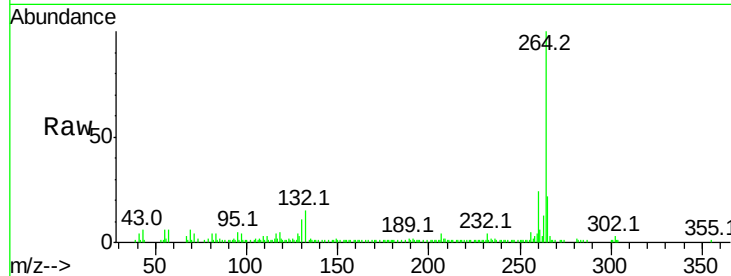
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.04 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.8	17.5	26.3

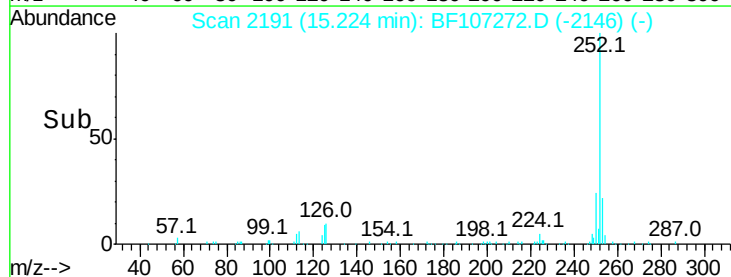
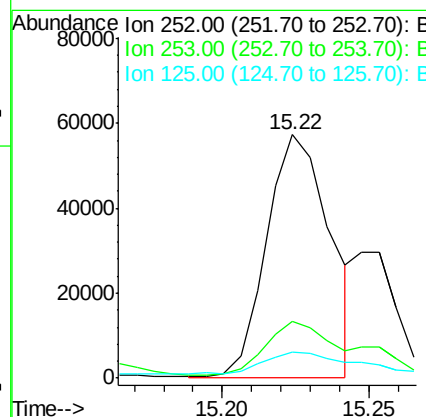
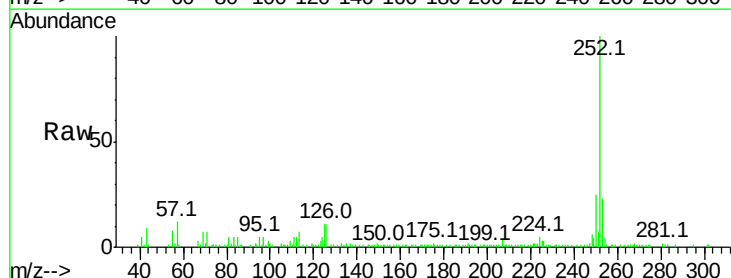
Manual Integrations
APPROVED

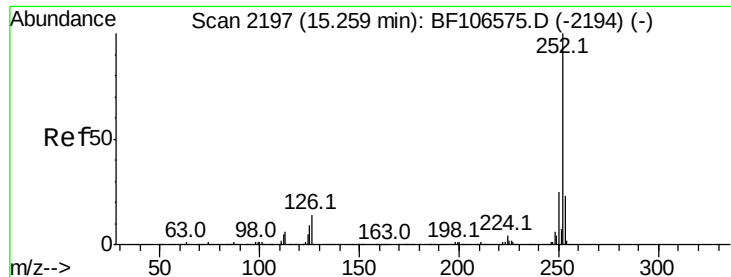
Sohil
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#87
Benzo(b)fluoranthene
Concen: 18.594 ng m
RT: 15.22 min Scan# 2191
Delta R.T. -0.04 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	10.6	9.0	13.6





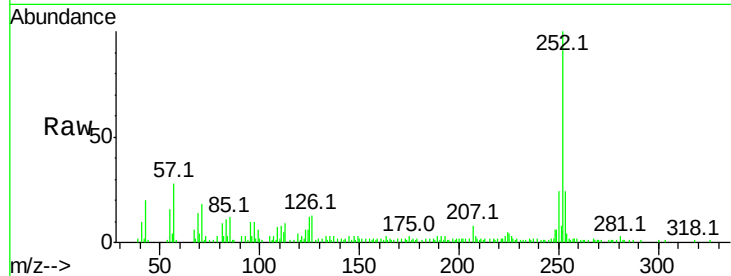
#88
Benzo(k)fluoranthene
Concen: 6.812 ng m
RT: 15.25 min Scan# 2195
Delta R.T. -0.05 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	12.5	10.2	15.2

Manual Integrations
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Sohil
7/11/2018 11:22:41 AM

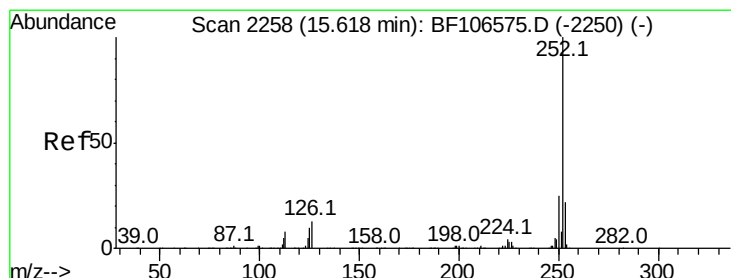
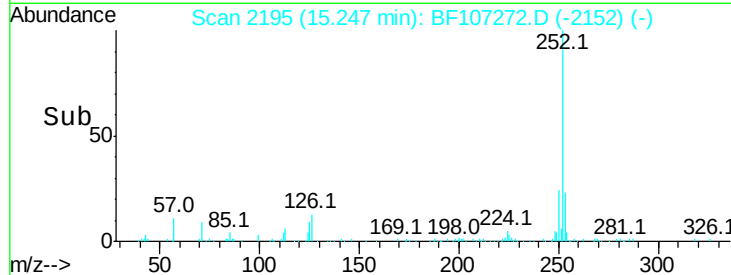
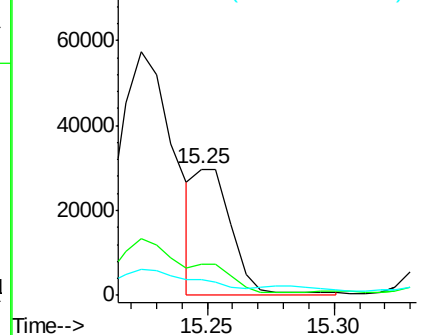


Abundance

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: 15.446 ng
RT: 15.62 min Scan# 2258
Delta R.T. -0.04 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

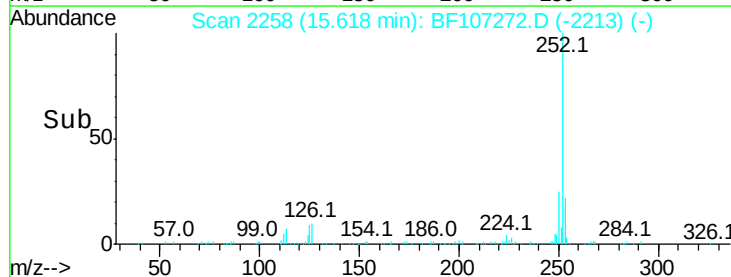
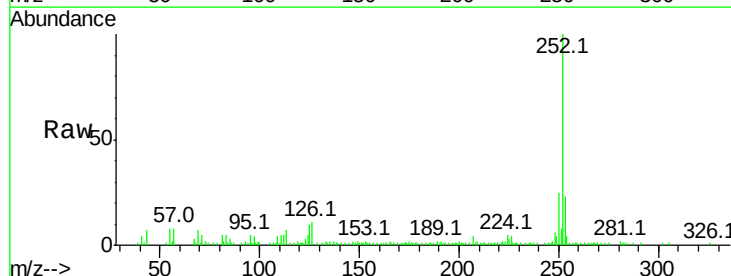
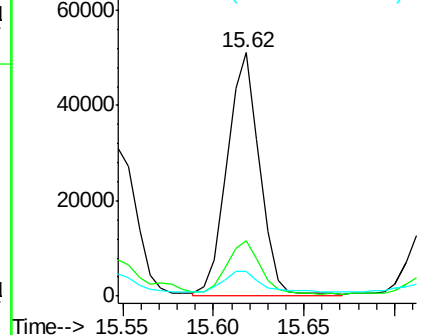
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	10.3	9.8	14.6

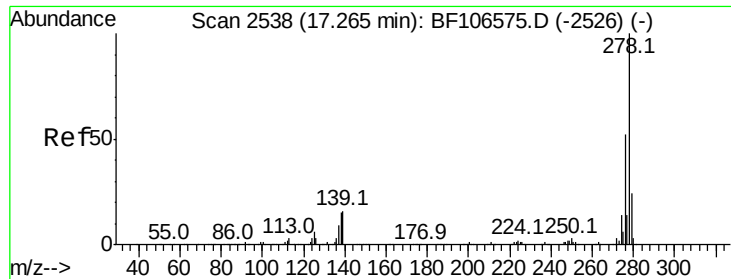
Abundance

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





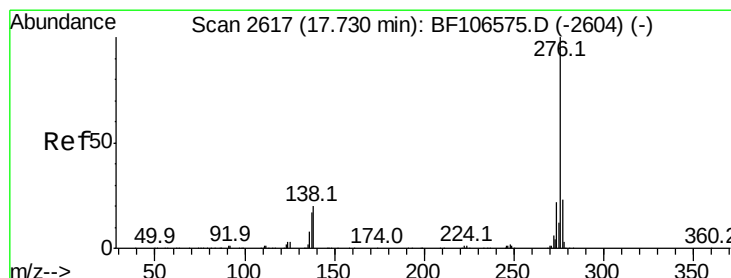
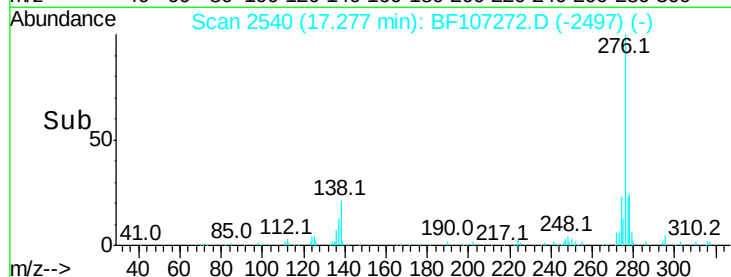
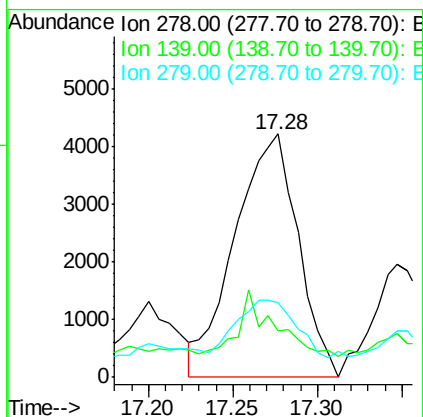
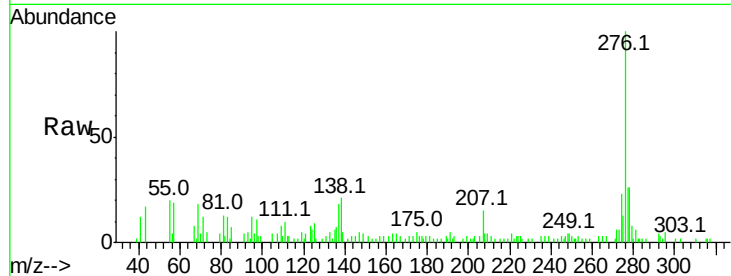
#90
Dibenzo(a,h)anthracene
Concen: 3.146 ng
RT: 17.28 min Scan# 2540
Delta R.T. -0.05 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.2	15.9	23.9
279	30.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
7/11/2018 11:22:41 AM



#91
Benzo(g,h,i)perylene
Concen: 10.100 ng
RT: 17.76 min Scan# 2622
Delta R.T. -0.03 min
Lab File: BF107272.D
Acq: 10 Jul 2018 15:02

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	17.9	26.9
138	21.0	21.8	32.8

