

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
 Data File : BF106677.D
 Acq On : 21 Jun 2018 22:42
 Operator : JU/SJ
 Sample : J3523-06 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AREA2(S)

Manual Integrations
 APPROVED

Sohil
 6/22/2018 10:23:24 AM

Quant Time: Jun 22 03:57:45 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 19 14:32:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	66919	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	257482	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	117675	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	206410	20.00	ng	0.00
75) Chrysene-d12	14.14	240	203364	20.00	ng	-0.01
86) Perylene-d12	15.68	264	149553	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	34019	8.61	ng	0.00
7) Phenol-d6	6.60	99	122855	24.89	ng	-0.01
23) Nitrobenzene-d5	7.52	82	79105	17.07	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	1645	1.21	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	158546	9.75	ng	-0.01
78) Terphenyl-d14	13.07	244	163657	19.49	ng	-0.01
Target Compounds						
70) Phenanthrene	11.52	178	100264	10.071	ng	99
71) Anthracene	11.57	178	27785	2.734	ng	99
74) Fluoranthene	12.71	202	218777	19.938	ng	93
77) Pyrene	12.94	202	204280	15.233	ng	99
80) Benzo(a)anthracene	14.14	228	154718	12.483	ng	99
82) Chrysene	14.17	228	135823	11.911	ng	98
85) Indeno(1,2,3-cd)pyrene	17.24	276	33442	3.456	ng	# 92
87) Benzo(b)fluoranthene	15.22	252	129283m	13.916	ng	
88) Benzo(k)fluoranthene	15.25	252	39969m	4.518	ng	
89) Benzo(a)pyrene	15.61	252	79449	9.620	ng	97
91) Benzo(g,h,i)perylene	17.72	276	31954	4.671	ng	# 88

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

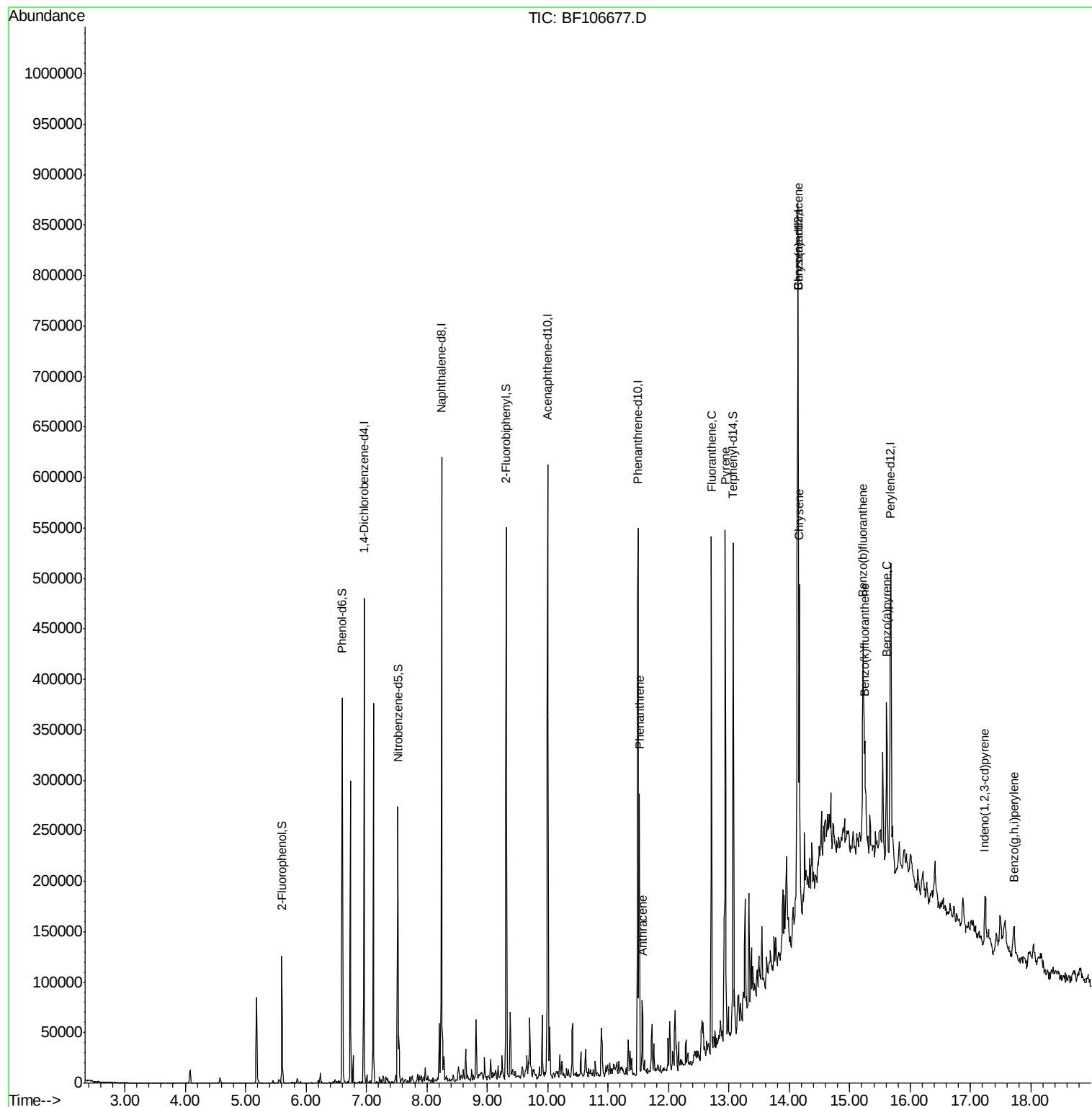
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
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#1

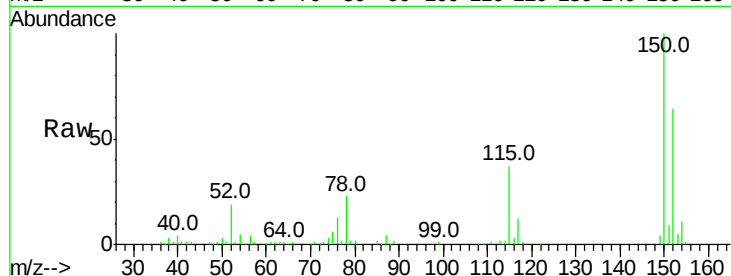
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Instrument :
BNA_F
ClientSampleId :
AREA2(S)

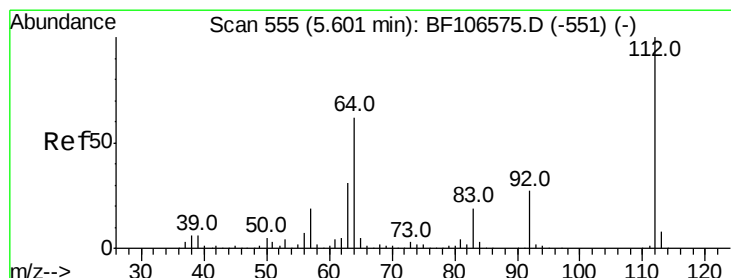
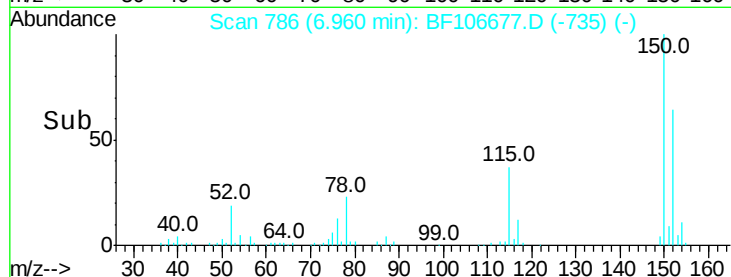
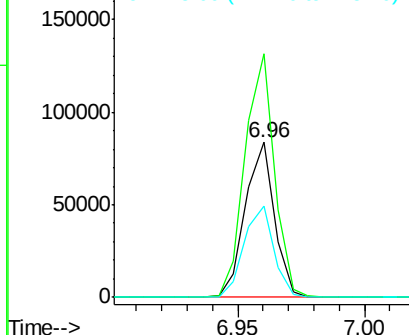
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.6	186.8
115	58.9	50.1	75.1

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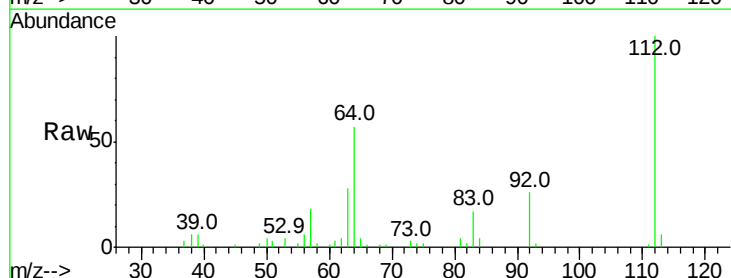
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



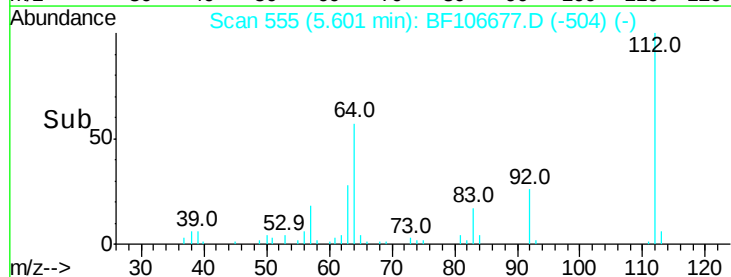
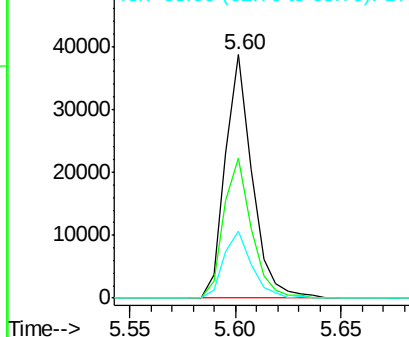
#5

2-Fluorophenol
Concen: 8.608 ng
RT: 5.60 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.3	47.9	71.9
63	27.7	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: 24.894 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Instrument :

BNA_F

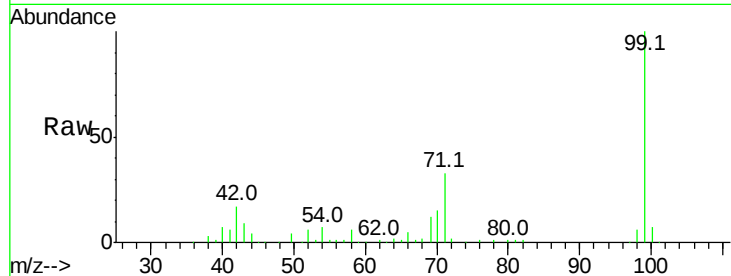
ClientSampleId :

AREA2(S)

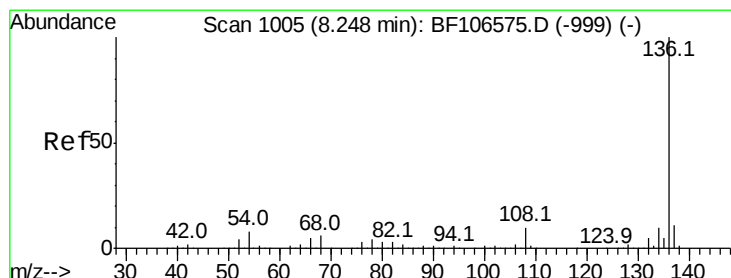
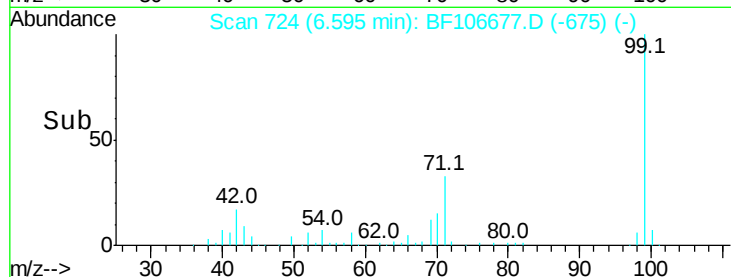
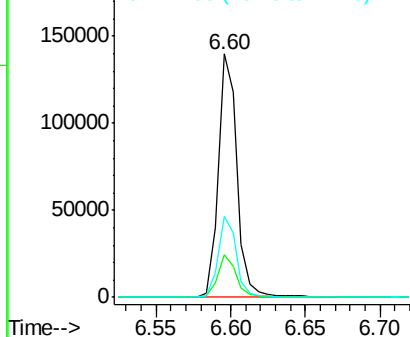
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		122855		
42	17.4	14.5	21.7		
71	33.4	25.4	38.0		

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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: 8.24 min Scan# 1004

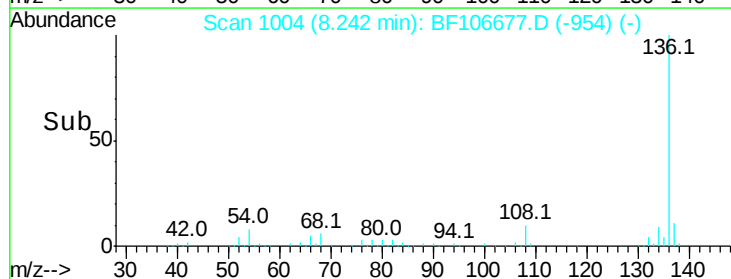
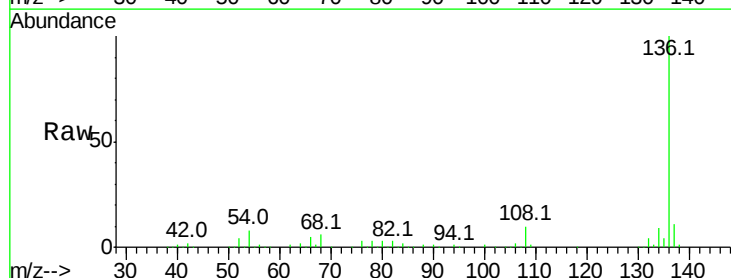
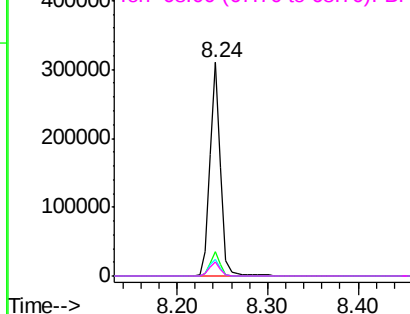
Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		257482		
137	11.1	8.9	13.3		
54	8.0	6.6	9.8		
68	6.5	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





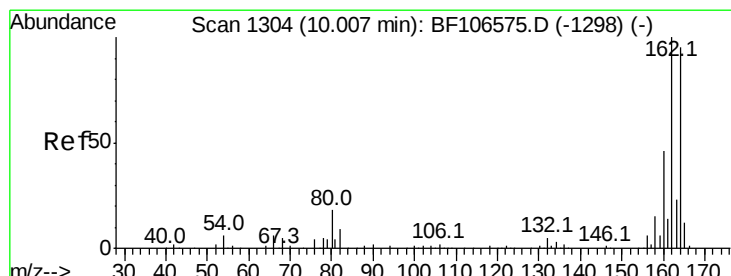
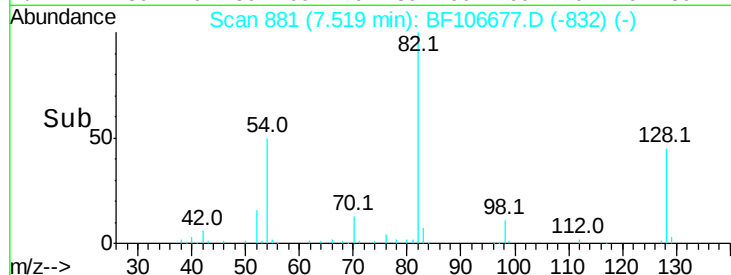
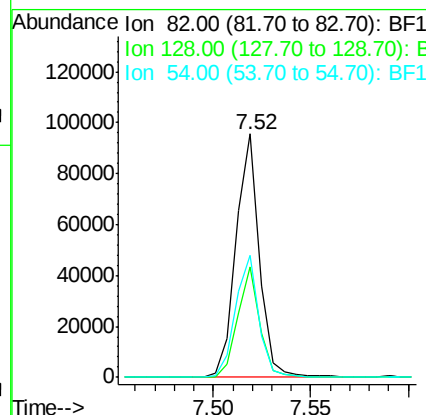
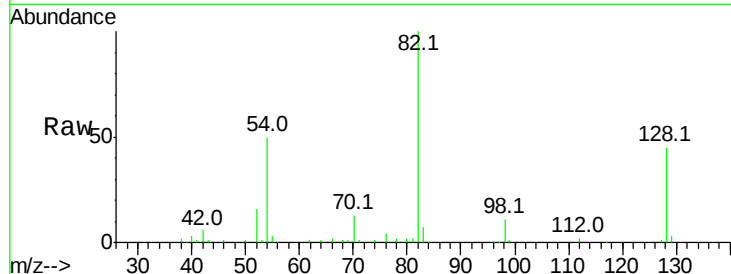
#23
Nitrobenzene-d5
Concen: 17.074 ng
RT: 7.52 min Scan# 881
Delta R.T. -0.01 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Instrument :
BNA_F
ClientSampleId :
AREA2(S)

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.1	54.1
54	49.9	41.4	62.2

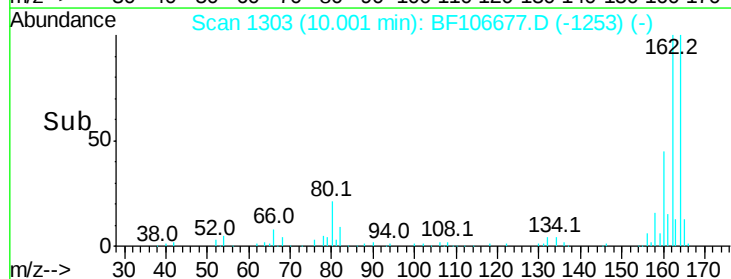
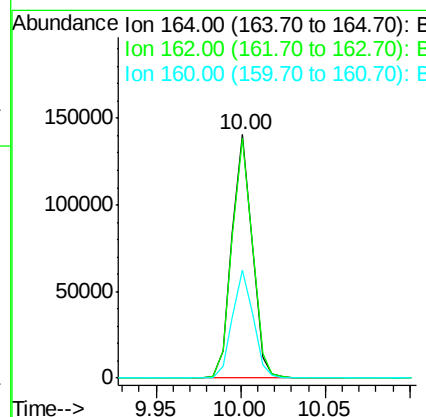
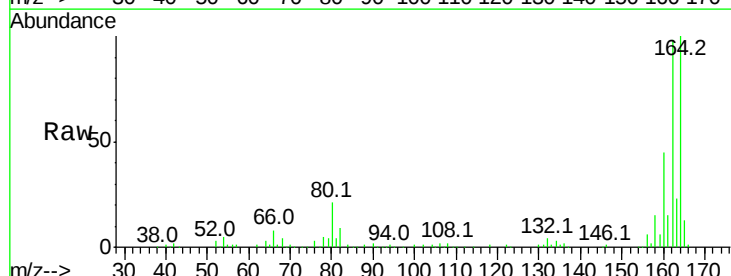
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.3	86.1	129.1
160	44.5	38.3	57.5





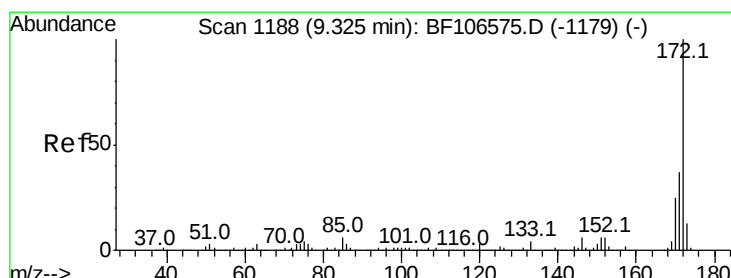
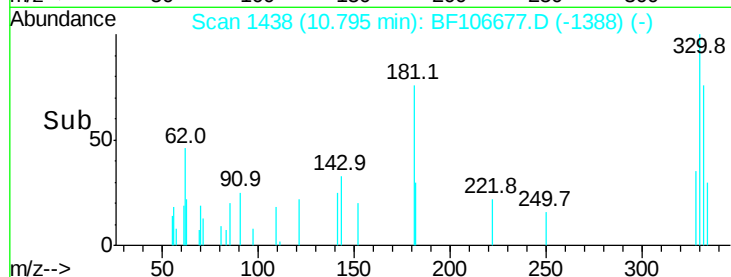
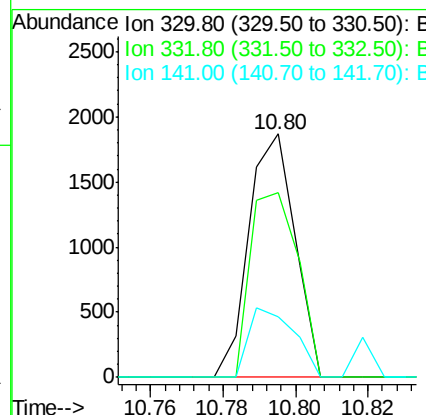
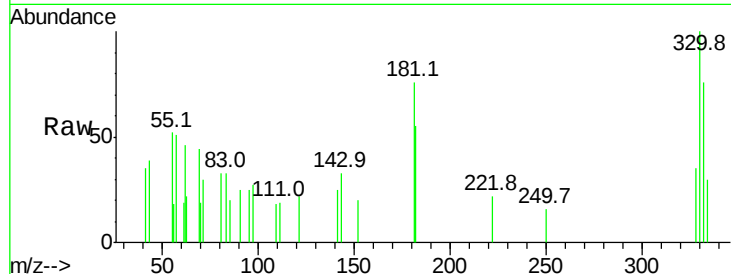
#41
 2,4,6-Tribromophenol
 Concen: 1.206 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF106677.D
 Acq: 21 Jun 2018 22:42

Instrument :
 BNA_F
 ClientSampleId :
 AREA2(S)

Tot Ion	Ratio	Lower	Upper
330	100		
332	78.5	77.0	115.6
141	28.0	29.9	44.9#

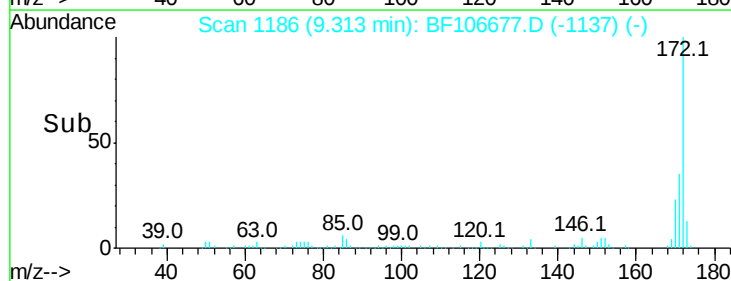
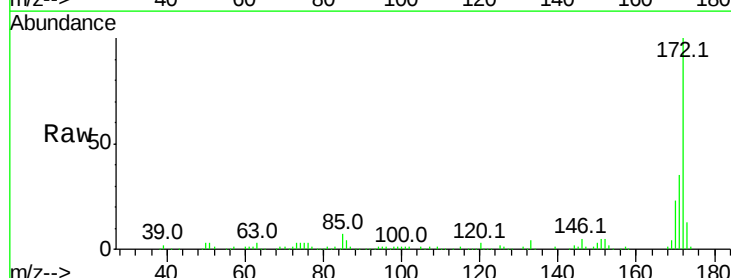
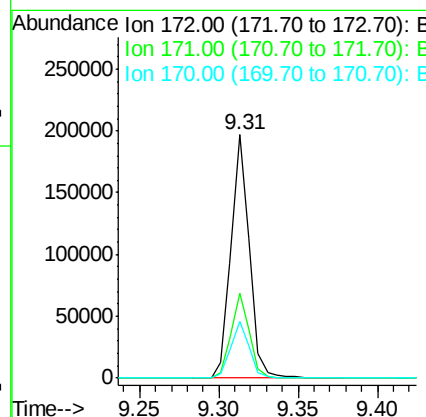
Manual Integrations
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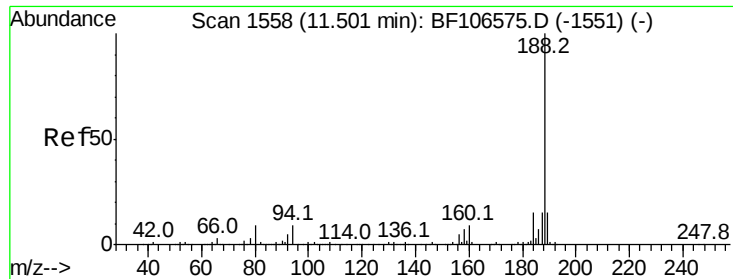
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#44
 2-Fluorobiphenyl
 Concen: 9.745 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106677.D
 Acq: 21 Jun 2018 22:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.7	44.5
170	23.3	19.6	29.4





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1557

Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Instrument :

BNA_F

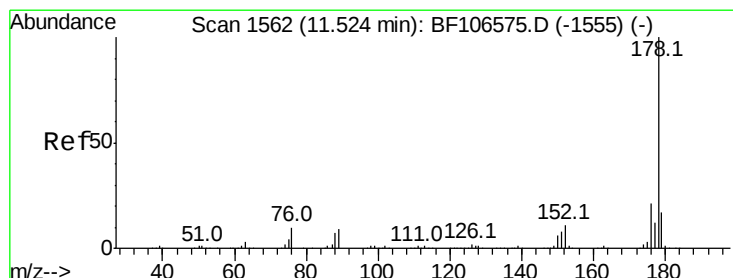
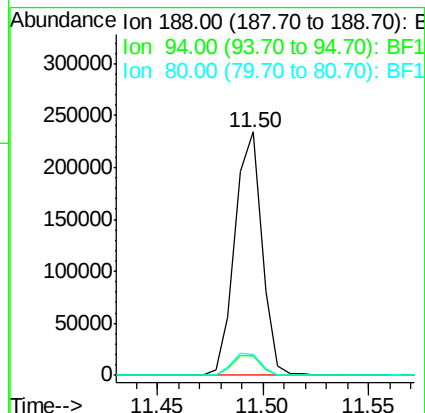
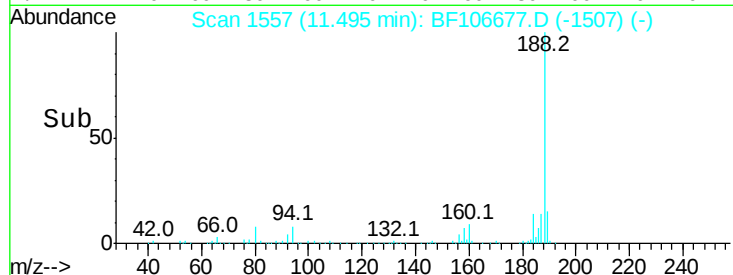
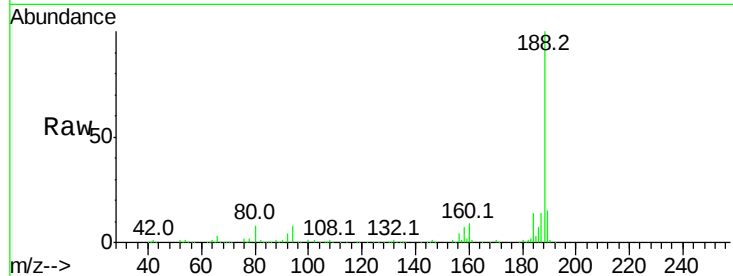
ClientSampleId :

AREA2(S)

Tot Ion:	188	Resp:	206410
Ion Ratio	Lower	Upper	
188	100		
94	8.1	8.5	12.7#
80	8.5	9.2	13.8#

Manual Integrations
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#70

Phenanthrene

Concen: 10.071 ng

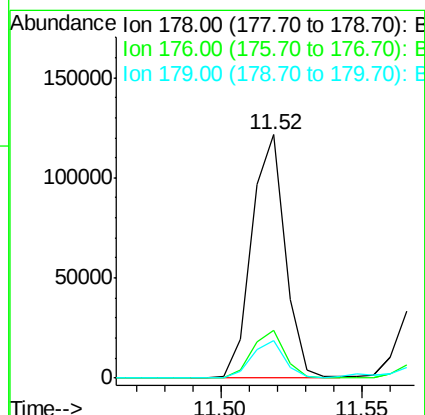
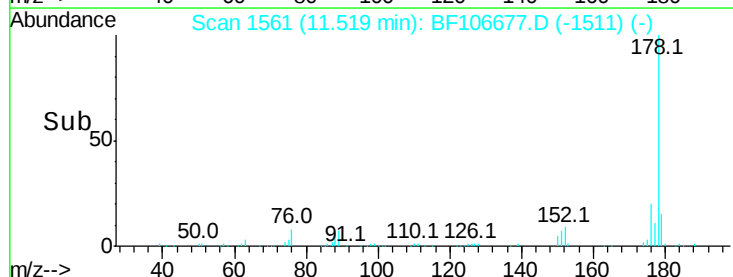
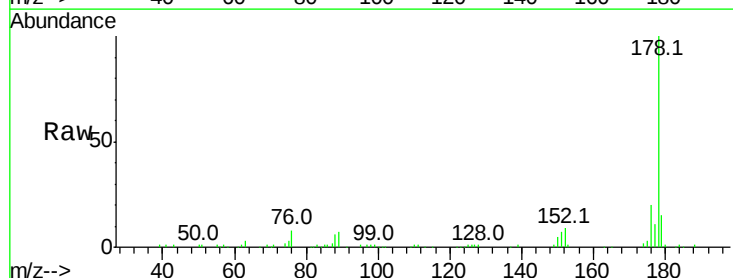
RT: 11.52 min Scan# 1561

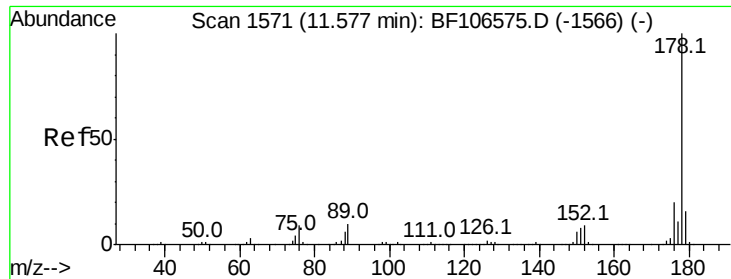
Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Tgt Ion:	178	Resp:	100264
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.8	23.8
179	15.2	13.0	19.6





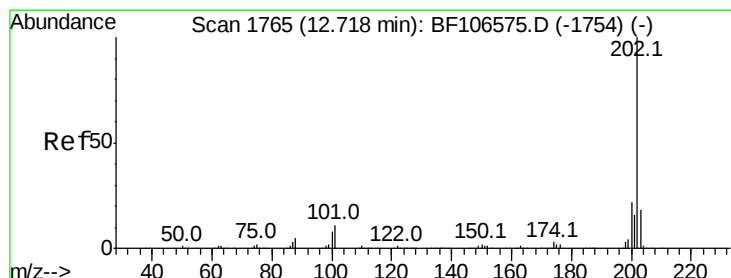
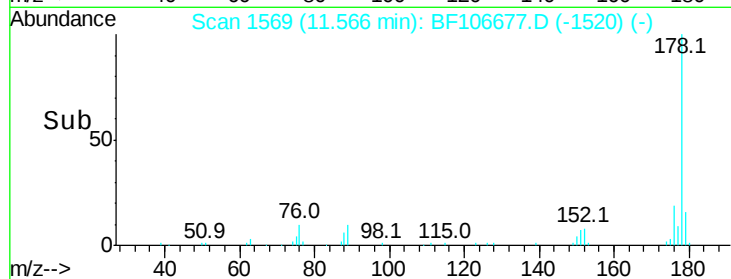
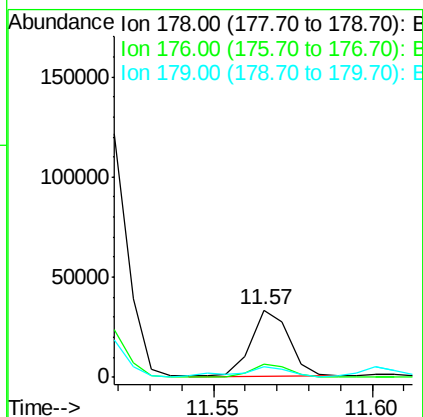
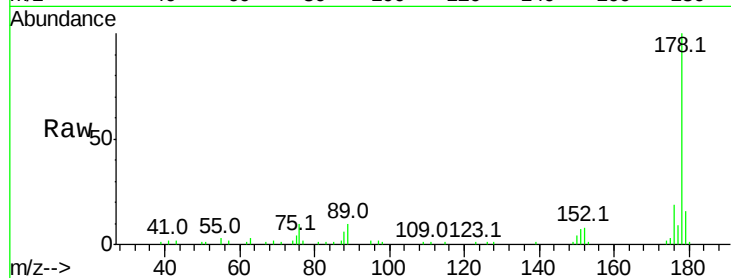
#71
 Anthracene
 Concen: 2.734 ng
 RT: 11.57 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF106677.D
 Acq: 21 Jun 2018 22:42

Instrument :
 BNA_F
 ClientSampleId :
 AREA2(S)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	16.1	12.6	19.0

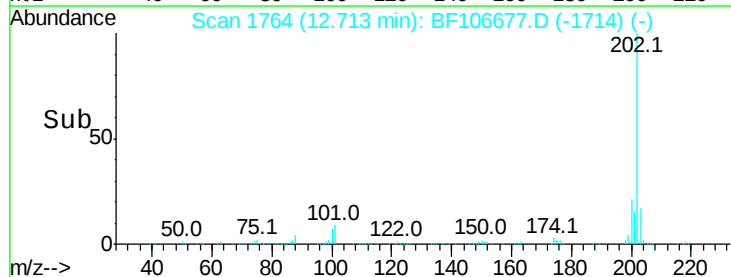
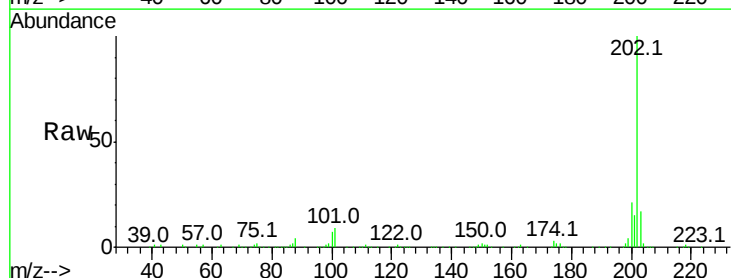
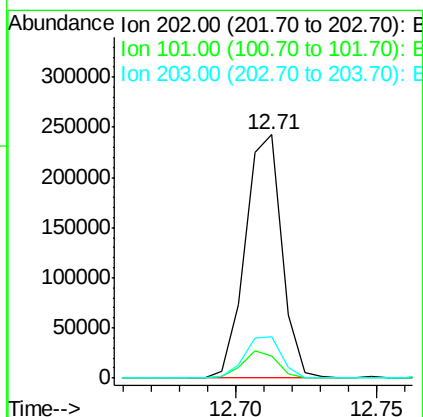
Manual Integrations
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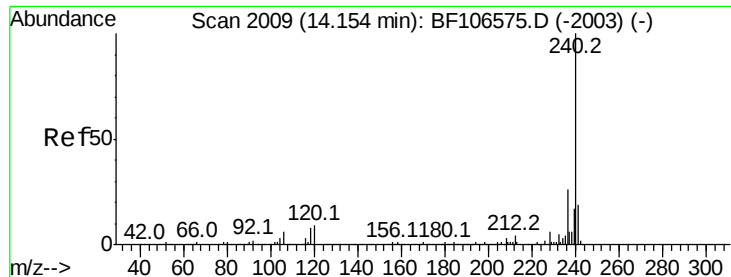
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#74
 Fluoranthene
 Concen: 19.938 ng
 RT: 12.71 min Scan# 1764
 Delta R.T. -0.01 min
 Lab File: BF106677.D
 Acq: 21 Jun 2018 22:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.1	0.0	34.1
203	17.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Instrument :

BNA_F

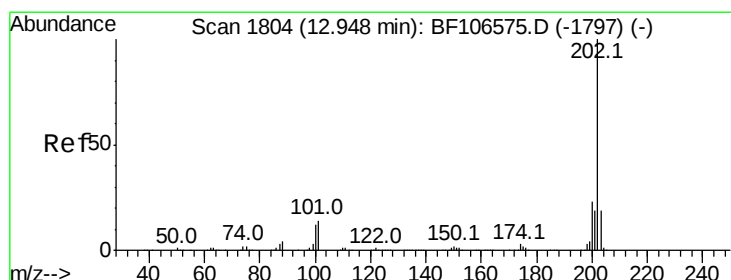
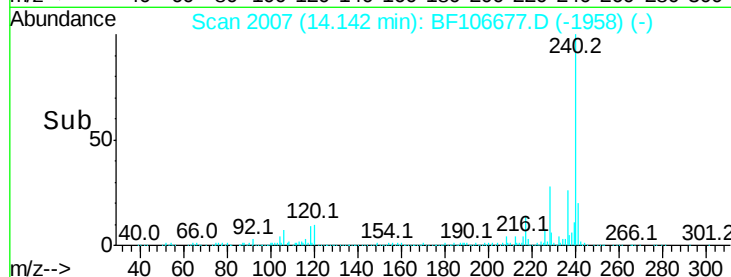
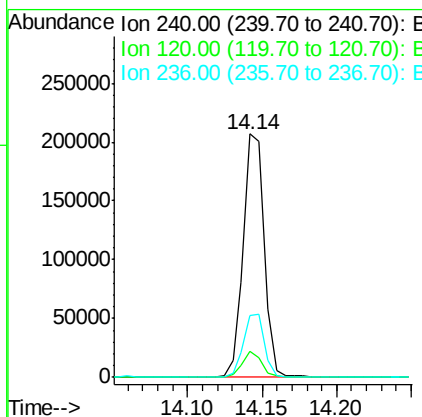
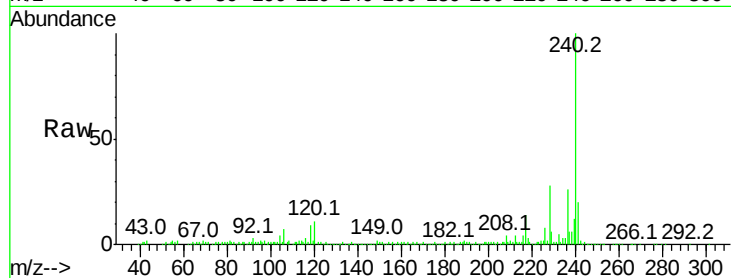
ClientSampled :

AREA2(S)

Tot Ion:	240	Resp:	203364
Ion Ratio	Lower	Upper	
240	100		
120	10.6	9.5	14.3
236	25.6	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 15.233 ng

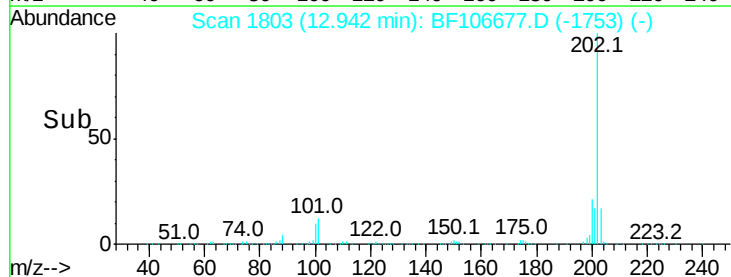
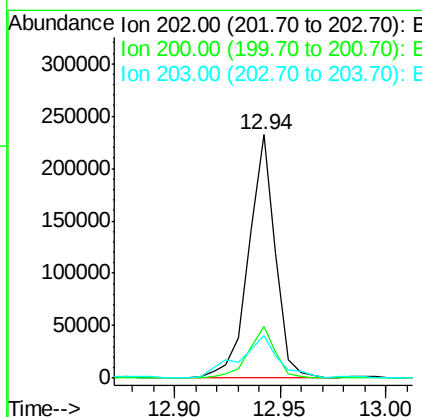
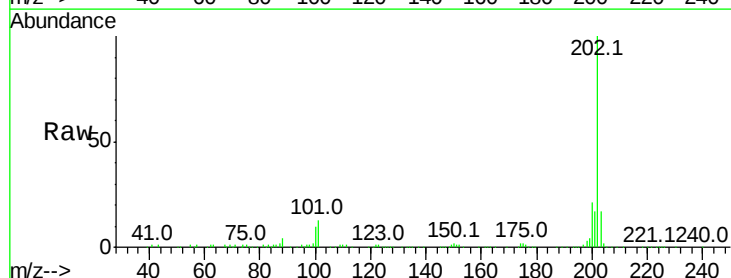
RT: 12.94 min Scan# 1803

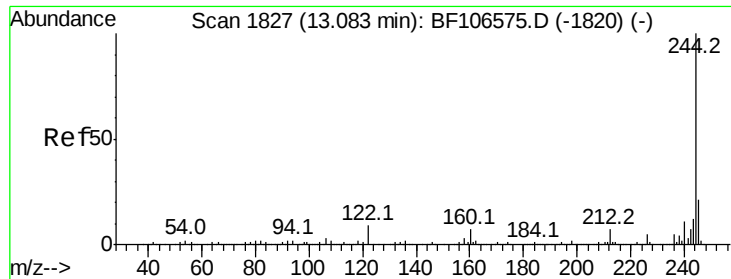
Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Tgt Ion:	202	Resp:	204280
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.4	26.2
203	17.4	14.3	21.5





#78

Terphenyl-d14

Concen: 19.493 ng

RT: 13.07 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Instrument :

BNA_F

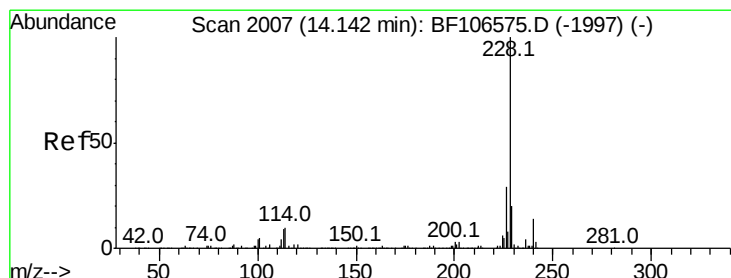
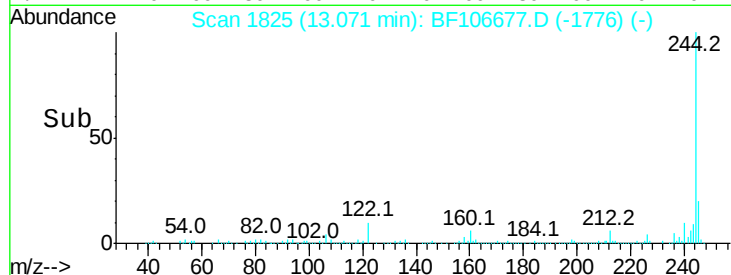
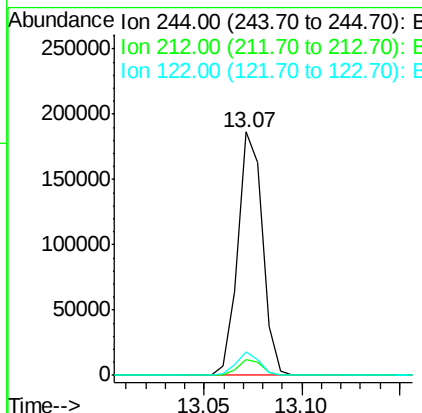
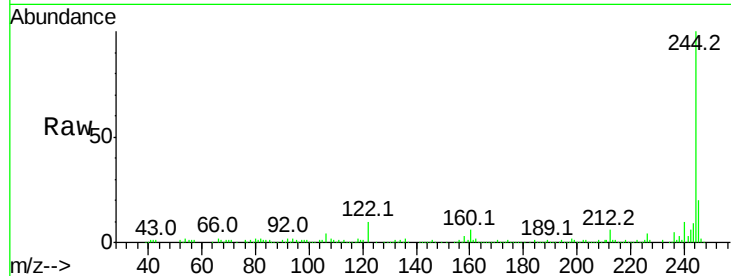
ClientSampleId :

AREA2(S)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	9.7	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 12.483 ng

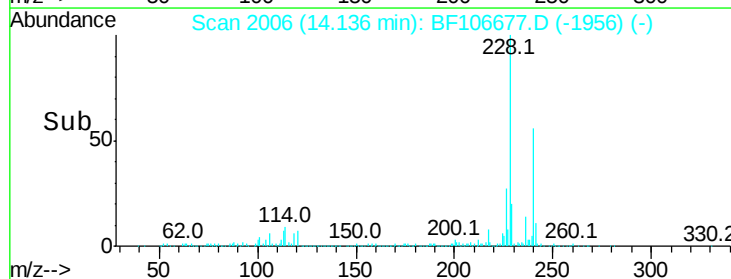
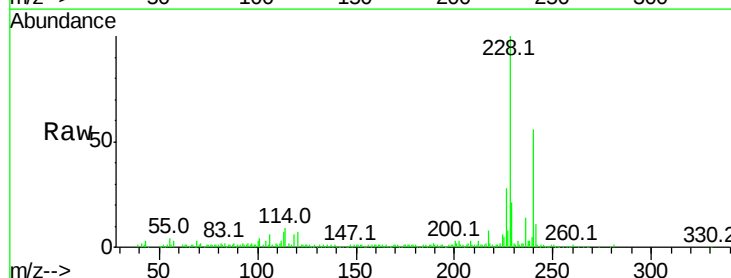
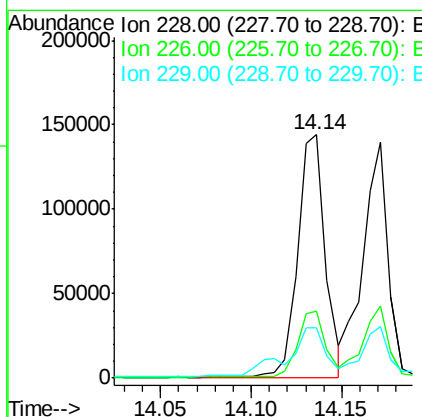
RT: 14.14 min Scan# 2006

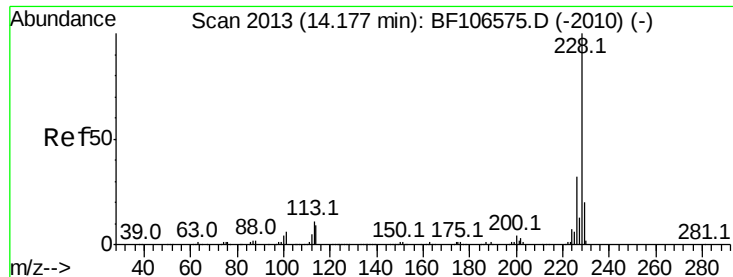
Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	20.5	15.8	23.6





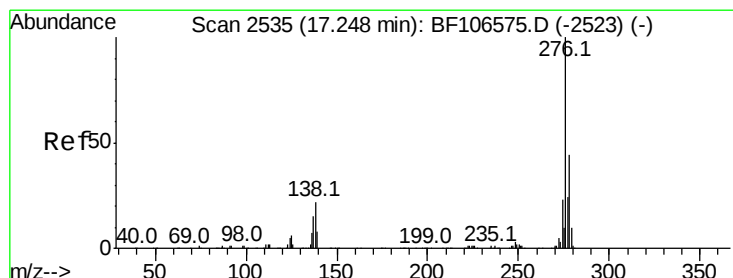
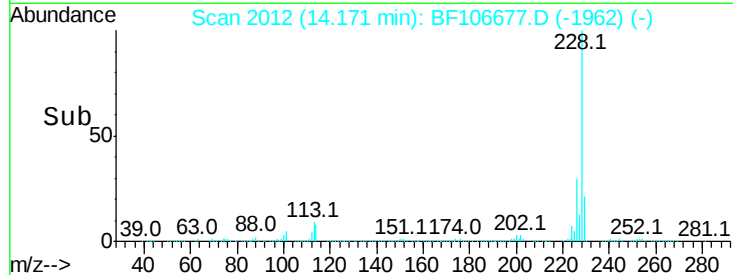
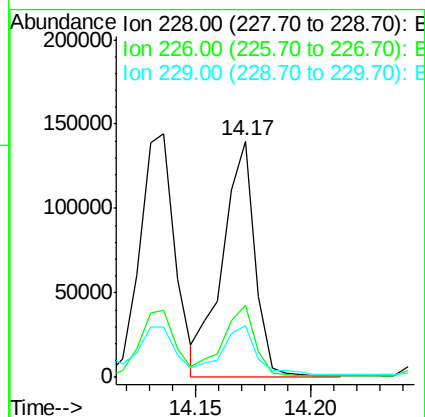
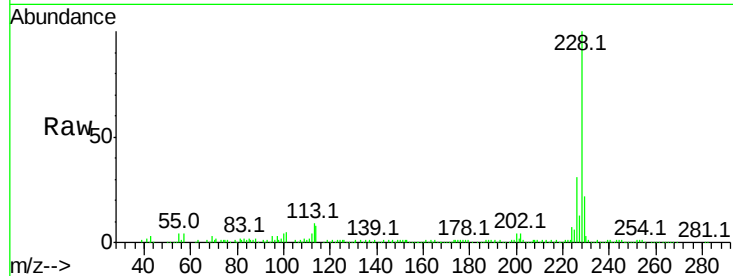
#82
Chrysene
Concen: 11.911 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Instrument :
BNA_F
ClientSampleId :
AREA2(S)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	22.1	16.2	24.4

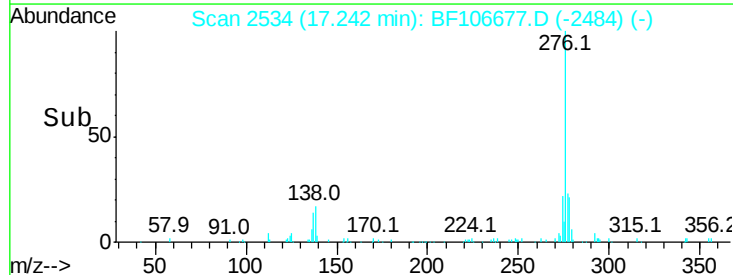
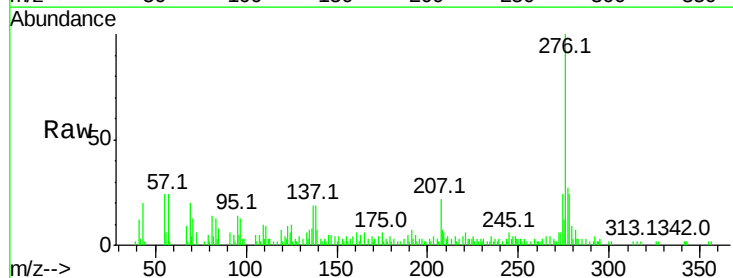
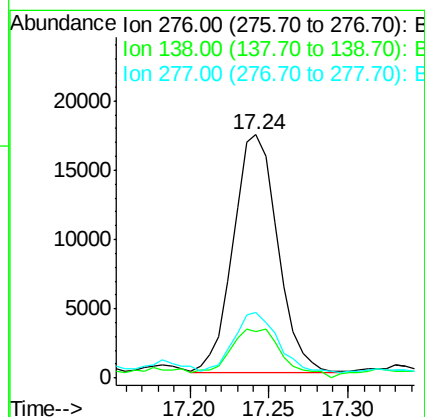
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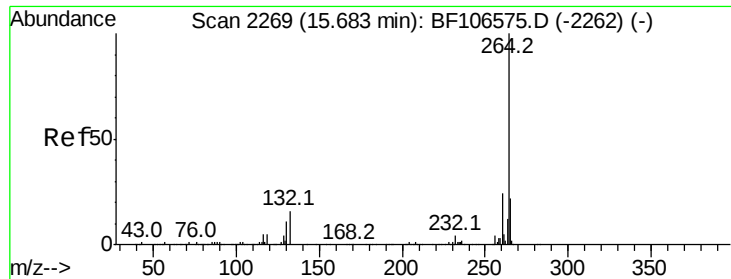
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#85
Indeno(1,2,3-cd)pyrene
Concen: 3.456 ng
RT: 17.24 min Scan# 2534
Delta R.T. -0.01 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.8	25.0	37.6#
277	25.6	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.68 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF106677.D

Acq: 21 Jun 2018 22:42

Instrument :

BNA_F

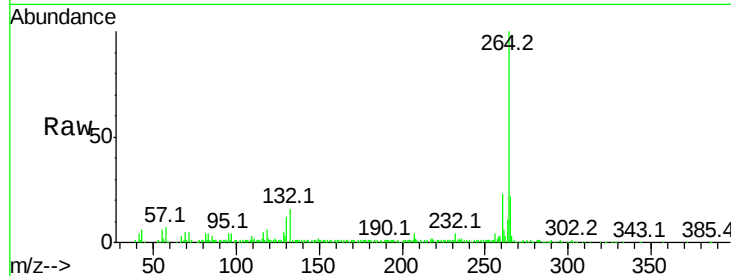
ClientSampleId :

AREA2(S)

Tot Ion:	264	Resp:	149553
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.2	28.8
265	21.5	17.5	26.3

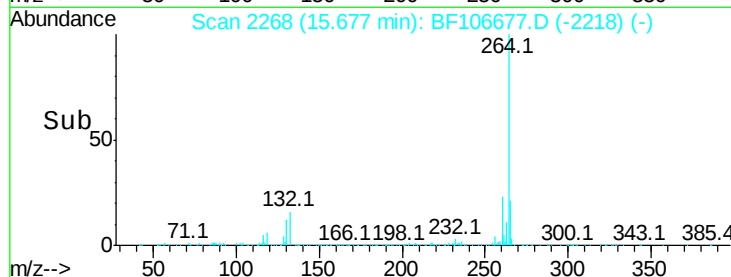
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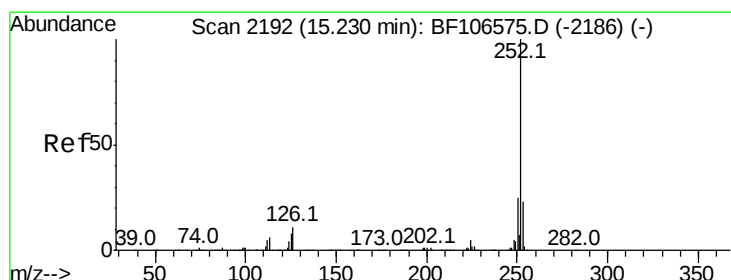


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

15.68



Time--> 15.60 15.70



#87

Benzo(b)fluoranthene

Concen: 13.916 ng m

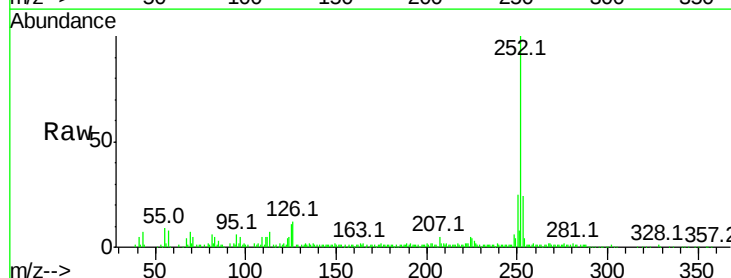
RT: 15.22 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BF106677.D

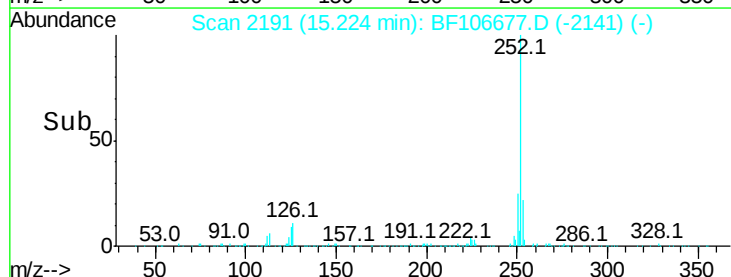
Acq: 21 Jun 2018 22:42

Tgt Ion:	252	Resp:	129283
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.0	25.6
125	11.1	9.0	13.6

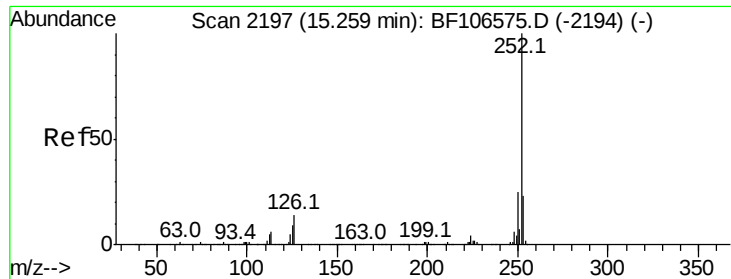


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

15.22



Time--> 15.20 15.25



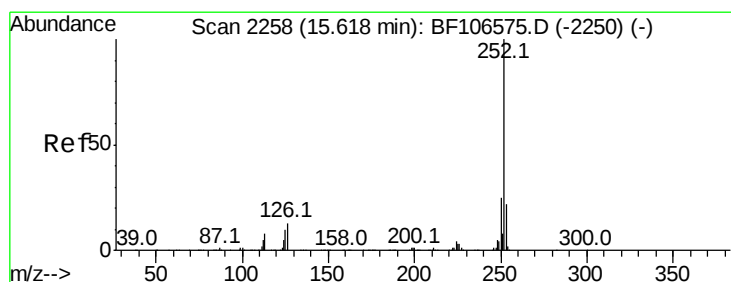
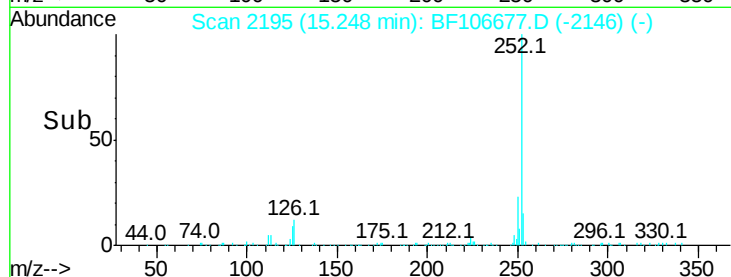
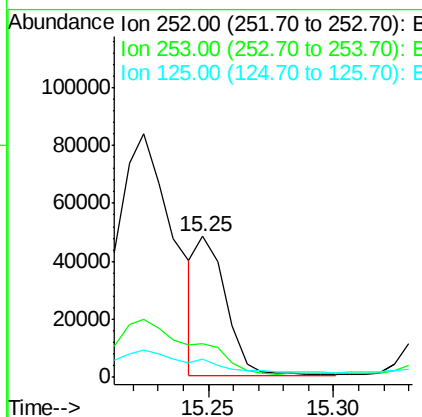
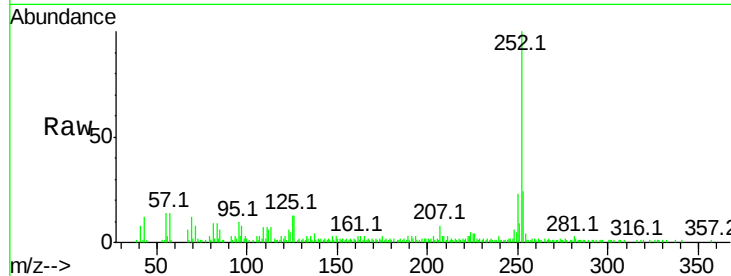
#88
Benzo(k)fluoranthene
Concen: 4.518 ng m
RT: 15.25 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Instrument :
BNA_F
ClientSampleId :
AREA2(S)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	13.0	10.2	15.2

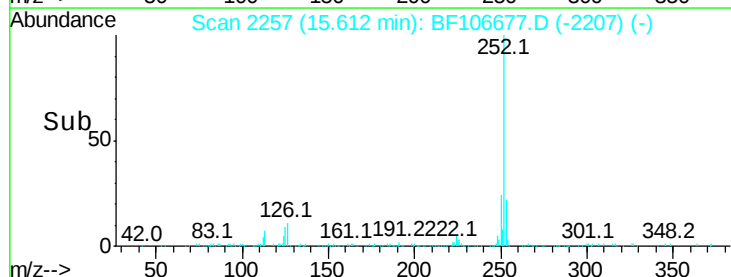
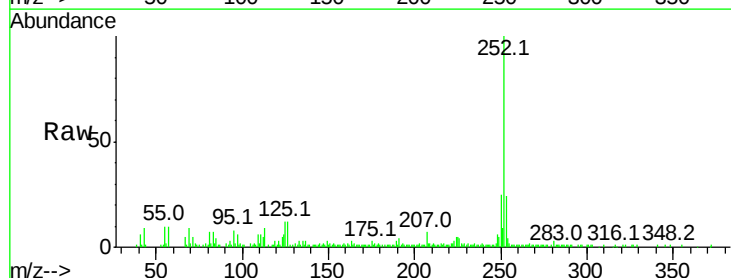
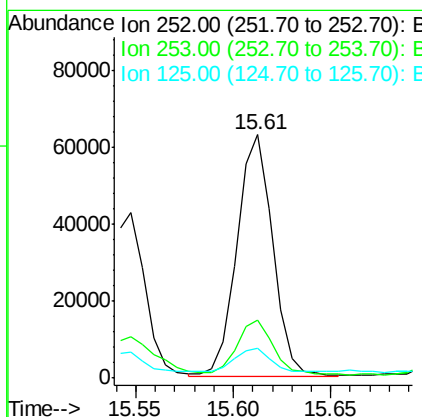
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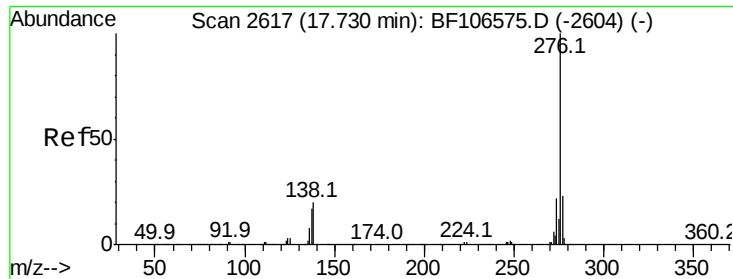
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#89
Benzo(a)pyrene
Concen: 9.620 ng
RT: 15.61 min Scan# 2257
Delta R.T. -0.01 min
Lab File: BF106677.D
Acq: 21 Jun 2018 22:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	12.1	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 4.671 ng
 RT: 17.72 min Scan# 2615
 Delta R.T. -0.01 min
 Lab File: BF106677.D
 Acq: 21 Jun 2018 22:42

Instrument :
 BNA_F
 ClientSampleId :
 AREA2(S)

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.8	17.9	26.9#
138	20.9	21.8	32.8#

Manual Integrations
 APPROVED

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