

## PFM Calibrations

### Transfer Function

#### 1) Transfer Functions @F0

For the whole test we will use the following parameters:

- LFR mode= Normal Mode
- ASM period = 4s
- Snapshots period = 22s
- Input signal amplitude 3Vp

#### a) Low Frequencies and FFT frequencies

7 frequencies: from 12Hz to 84Hz with  $\Delta f = 12\text{Hz}$

128 frequencies: from 96Hz to 12288Hz with  $\Delta f = 96\text{Hz}$

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Channels	Parameters	Curves	data
B1 and B2	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF1aB1B2_2016-03-29T10_10_31.781731.svg</a>	<a href="#">Result files</a>
B2 and B3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF1aB2B3_2016-03-29T11_22_47.937601.svg</a>	<a href="#">Result files</a>
B3 and BIAS1	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF1aB3BIAS1_2016-03-29T14_42_16.973207.svg</a>	<a href="#">Result files</a>
BIAS1 and BIAS2	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF1aBIAS1BIAS2_2016-03-29T15_37_41.119563.svg</a>	<a href="#">Result files</a>
BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF1aBIAS2BIAS3_2016-03-29T16_33_14.886467.svg</a>	<a href="#">Result files</a>
BIAS1 and BIAS4	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0	<a href="#">TF1aBIAS1BIAS4_2016-03-29T13_48_36.670741.svg</a>	<a href="#">Result files</a>
BIAS4 and BIAS5	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0	<a href="#">TF1aBIAS4BIAS5_2016-03-29T17_36_37.811434.svg</a>	<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ), BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1	<a href="#">TF1aB1B2B3BIA1BIA290BIA390_2016-03-29T18_40_30.458240.svg</a>	<a href="#">Result files</a>
B1, B2, B3, VHF1, VHF2, VHF3	BIAS Work = 0 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF1aB1B2B3V1V2V3_2016-03-29T19_34_42.946732.svg</a>	<a href="#">Result files</a>

#### b) Frequencies > F0/2

24 frequencies: from 13056Hz to 30720Hz with  $\Delta f = 768\text{Hz}$

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Channels	Parameters	Curves	data
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B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS4, BIAS5	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1		<a href="#">Result files</a>
B1, B2, B3, VHF1, VHF2 and VHF3	BIAS Work = 0 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, VHF1, VHF2 ( $\varphi = 90^\circ$ ) and VHF3 ( $\varphi = 90^\circ$ )	BIAS Work = 0 R0=R1=R2 = 1 SP0=SP1 = 1		<a href="#">Result files</a>

## 2) Transfer Functions @F1

### a) Low Frequencies

- LFR mode= SBM1
- ASM period = 32s
- Snapshots period = 32s
- Input signal amplitude 3Vp
- Step duration = 420s

10 frequencies: from 0.01Hz to 0.1Hz with  $\Delta f = 0.01\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS4 and BIAS5	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1		<a href="#">Result files</a>

- LFR mode= SBM1
- ASM period = 4s
- Snapshots period = 32s
- Input signal amplitude 3Vp
- Step duration = 32s

10 frequencies: from 0.2Hz to 2Hz with  $\Delta f = 0.2\text{Hz}$

6 frequencies: from 4Hz to 14Hz with  $\Delta f = 2\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2, BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>

B1, B2, B3, BIAS1, BIAS4, BIAS5	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1		<a href="#">Result files</a>

### b) FFT frequencies

- LFR mode= SBM1
- ASM period = 4s
- Snapshots period = 32s
- Input signal amplitude 3Vp
- Step duration = 32s

128 frequencies: from 16Hz to 2048Hz with  $\Delta f = 16\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF2bB1B2B3BIAS1BIAS2BIAS3_2016-03-30T18_17_58.746031.svg</a>	<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS4 and BIAS5	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0	<a href="#">TF2bB1B2B3BIAS1BIAS4BIAS5_2016-03-30T19_41_32.077592.svg</a>	<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1	<a href="#">TF2bB1B2B3BIAS1BIAS2BIAS3_2016-03-31T09_43_31.908069.svg</a>	<a href="#">Result files</a>
B1, B2, B3, VHF1, VHF2 and VHF3	BIAS Work = 0 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF2bB1B2B3V1V2V3_2016-03-31T10_56_48.227834.svg</a>	<a href="#">Result files</a>
B1, B2, B3, VHF1, VHF2 ( $\varphi = 90^\circ$ ) and VHF3 ( $\varphi = 90^\circ$ )	BIAS Work = 0 R0=R1=R2 = 1 SP0=SP1 = 1	<a href="#">TF2bB1B2B3V1V2V3_2016-03-31T12_22_38.041766.svg</a>	<a href="#">Result files</a>

### 3) Transfer Functions @F2 and @F3 (0.01Hz-0.1Hz + 0.125Hz-0.875Hz)

#### a) Low Frequencies

- LFR mode= SBM2
- ASM period = 32s
- Snapshots period = 32s
- Input signal amplitude 3Vp
- Step duration = 420s

10 frequencies: from 0.01Hz to 0.1Hz with  $\Delta f = 0.01\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS4 and BIAS5	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1,	BIAS Work = 1		"Result files": <b>SKIPPED</b>

BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	R0=R1=R2 = 1 SP0=SP1 = 1		
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- LFR mode= SBM2
- ASM period = 32s
- Snapshots period = 32s
- Input signal amplitude 3Vp
- Step duration = 360s

7 frequencies: from 0.125Hz to 0.875Hz with  $\Delta f = 0.125\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1		<a href="#">Result files</a>

- LFR mode= SBM2
- ASM period = 4s
- Snapshots period = 22s
- Input signal amplitude 3Vp
- Step duration = 44s

7 frequencies: from 0.125Hz to 0.875Hz with  $\Delta f = 0.125\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS4 and BIAS5	BIAS Work = 1 R0=R1=R2 = 0 SP0=SP1 = 0		<a href="#">Result files</a>

## b) FFT frequencies

- LFR mode= SBM2
- ASM period = 4s
- Snapshots period = 22s
- Input signal amplitude 3Vp
- Step duration = 22s

128 frequencies: from 1Hz to 128Hz with  $\Delta f = 1\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF3bB1B2B3BIAS1BIAS2B IAS3_2016-03-31T19_52_1 3.463634.svg</a>	<a href="#">Result files</a>
B1, B2, B3, BIAS1,	BIAS Work = 1	<a href="#">TF3bB1B2B3BIAS1BIAS4B</a>	<a href="#">Result files</a>

BIAS4, BIAS5	R0=R1=R2 = 0 SP0=SP1 = 0	<a href="#">IAS5_2016-03-31T20_41_4_2.933912.svg</a>	
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1	<a href="#">TF3bB1B2B3BIAS1BIAS290BIAS390_2016-03-31T21_30_30.341444.svg</a>	<a href="#">Result files</a>
B1, B2, B3, VHF1, VHF2 and VHF3	BIAS Work = 0 R0=R1=R2 = 1 SP0=SP1 = 0	<a href="#">TF3bB1B2B3V1V2V3_2016-04-01T09_28_48.231276.svg</a>	<a href="#">Result files</a>
B1, B2, B3, VHF1, VHF2 ( $\varphi = 90^\circ$ ) and VHF3 ( $\varphi = 90^\circ$ )	BIAS Work = 0 R0=R1=R2 = 1 SP0=SP1 = 1	<a href="#">TF3bB1B2B3V1V290V390_2016-04-01T10_18_06.144607.svg</a>	<a href="#">Result files</a>

#### 4) Transfer Functions @F3

##### a) F3 specific frequencies (+ partial redundancy with F2)

- LFR mode= SBM2
- ASM period = 32s
- Snapshots period = 32s
- Input signal amplitude 3Vp
- Step duration = 360s

15 frequencies: from 1Hz to 8Hz with  $\Delta f = 0.5\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1		<a href="#">Result files</a>

##### b) Frequencies > F3/2

- LFR mode= SBM2
- ASM period = 32s
- Snapshots period = 32s
- Input signal amplitude 3Vp
- Step duration = 180s

12 frequencies: from 9Hz to 20Hz with  $\Delta f = 1\text{Hz}$

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Channels	Parameters	Curves	data
B1, B2, B3, BIAS1, BIAS2 and BIAS3	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 0		<a href="#">Result files</a>
B1, B2, B3, BIAS1, BIAS2 ( $\varphi = 90^\circ$ ) and BIAS3 ( $\varphi = 90^\circ$ )	BIAS Work = 1 R0=R1=R2 = 1 SP0=SP1 = 1		<a href="#">Result files</a>

#### Files

TF1\_a\_B1B2.tar.bz2

4.02 MB

29/03/2016

Alexis Jeandet

TF1_a_B1B2B3BIA1BIA290BIA390.tar.bz2	6.37 MB	29/03/2016	Alexis Jeandet
TF1_a_B2B3.tar.bz2	4.25 MB	29/03/2016	Alexis Jeandet
TF1_a_B3BIAS1.tar.bz2	4.29 MB	29/03/2016	Alexis Jeandet
TF1_a_BIAS1BIAS2.tar.bz2	4.19 MB	29/03/2016	Alexis Jeandet
TF1_a_BIAS1BIAS4.tar.bz2	4.16 MB	29/03/2016	Alexis Jeandet
TF1_a_BIAS2BIAS3.tar.bz2	4 MB	29/03/2016	Alexis Jeandet
TF1_a_BIAS4BIAS5.tar.bz2	4.14 MB	29/03/2016	Alexis Jeandet
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TF2_a_bis_B1B2B3BIAS1BIAS4BIAS5.tar.bz2	24.6 MB	30/03/2016	Alexis Jeandet
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TF2_b_B1B2B3BIAS1BIAS4BIAS5.tar.7z	140 MB	30/03/2016	Alexis Jeandet
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TF1aB3BIAS1_2016-03-29T14_42_16.973207.svg	132 KB	31/03/2016	Alexis Jeandet
TF1aB1B2_2016-03-29T10_10_31.781731.svg	137 KB	31/03/2016	Alexis Jeandet
TF1aBIAS1BIAS2_2016-03-29T15_37_41.119563.svg	138 KB	31/03/2016	Alexis Jeandet
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TF3_b_B1B2B3V1V290V390.tar.7z	18.3 MB	01/04/2016	Alexis Jeandet
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TF1aB1B2B3BIA1BIA290BIA390_2016-03-29T18_40_30.458240.svg	292 KB	01/04/2016	Alexis Jeandet
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TF2bB1B2B3BIAS1BIAS4BIAS5_2016-03-30T19_41_32.077592.svg	273 KB	01/04/2016	Alexis Jeandet
TF2bB1B2B3V1V2V3_2016-03-31T10_56_48.227834.svg	273 KB	01/04/2016	Alexis Jeandet
TF2bB1B2B3BIAS1BIAS290BIAS390_2016-03-31T09_43_31.908069.svg	274 KB	01/04/2016	Alexis Jeandet
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TF3bB1B2B3V1V290V390_2016-04-01T10_18_06.144607.svg	273 KB	01/04/2016	Alexis Jeandet
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