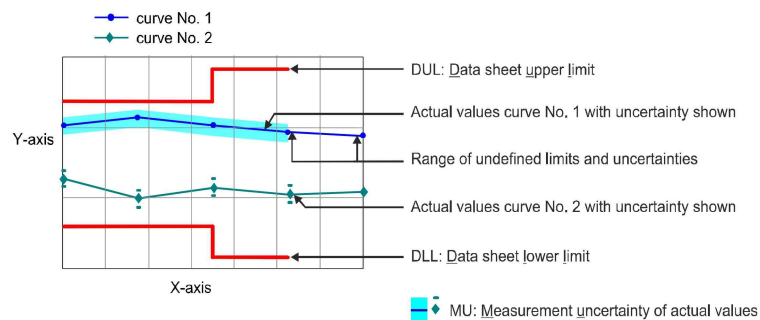### The following abbreviations may be used in this document

{a}   No measurement uncertainty stated because the errors always add together. So it is sure
           that a measurement result evaluated as "PASS" is pass.

{b}   The measurement uncertainty depends on the measurement result. The stated measurement
           uncertainty is valid for the close area around the specification. Measurement results outside
           the close area have a higher measurement uncertainty but are within the specification.

{c}   Functional test, therefore no measurement uncertainty is stated.

{d}   Typical value, refer to performance test.

{e}   The measurement uncertainty is taken into account when setting the measuring system.

{f}   Verification of specified requirements. Technical operation that consist of the determination of one or more
           characteristics to a specified procedure.

DL or DT   Data Limit for symmetrical tolerance limits

DLL   Datasheet Lower Limit

DUL   Datasheet Upper Limit

MU   Symmetrical Measurement Uncertainty

MLL or MLV Measurement Uncertainty Lower Value

MUL or MUV Measurement Uncertainty Upper Value

Nom.   Nominal Value

Dev.   Deviation

Act.   Actual Value

UGB   Uncertainty Guard Band: Measuring uncertainty violates the data (spec.) limit.

UGB1   A compliance statement may be possible where a confidence level of less than 95 % is acceptable.

UGB2   A non-compliance statement may be possible where a confidence level of less than 95 % is acceptable.

DU   Datasheet Uncertainty

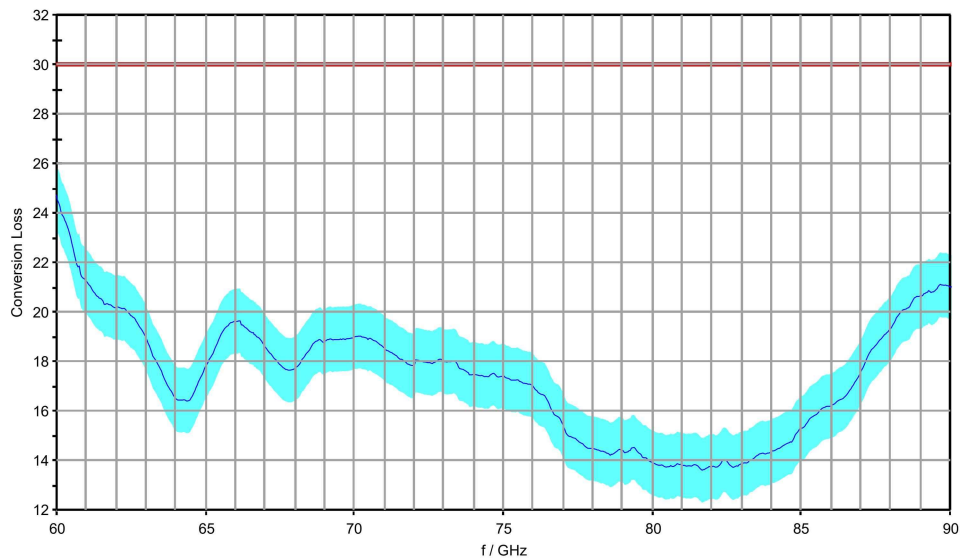### Explanation of charts

Table of contents

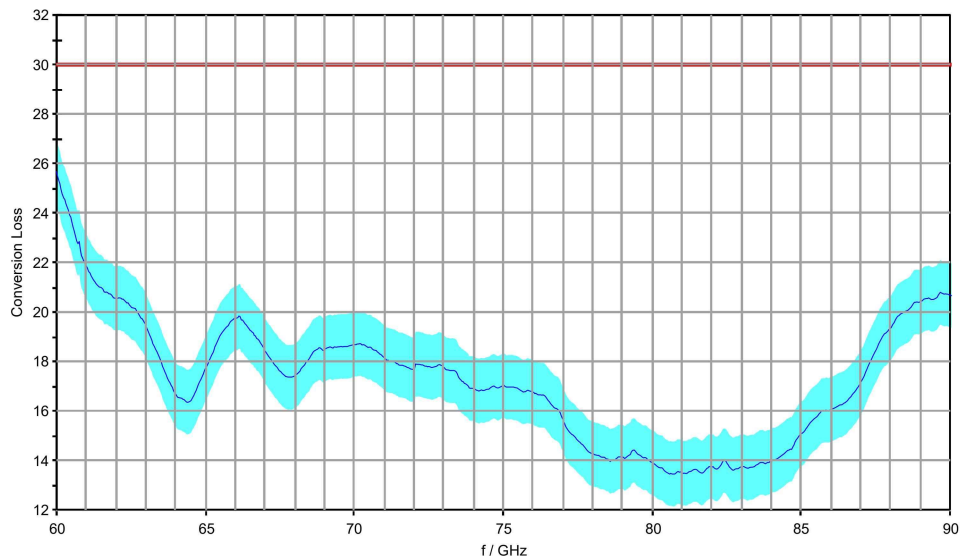| Software used for measurement			
Item	**Type**	**Version**	**Remark**
Suite	Setup	V12.10.02	Test Management Software G5
Test Program (7012.8706.00_)	Component	V01.05	

1. Conversion Loss (6. Harmonic)

1.1 Conversion Loss (IF = 404.4 MHz)
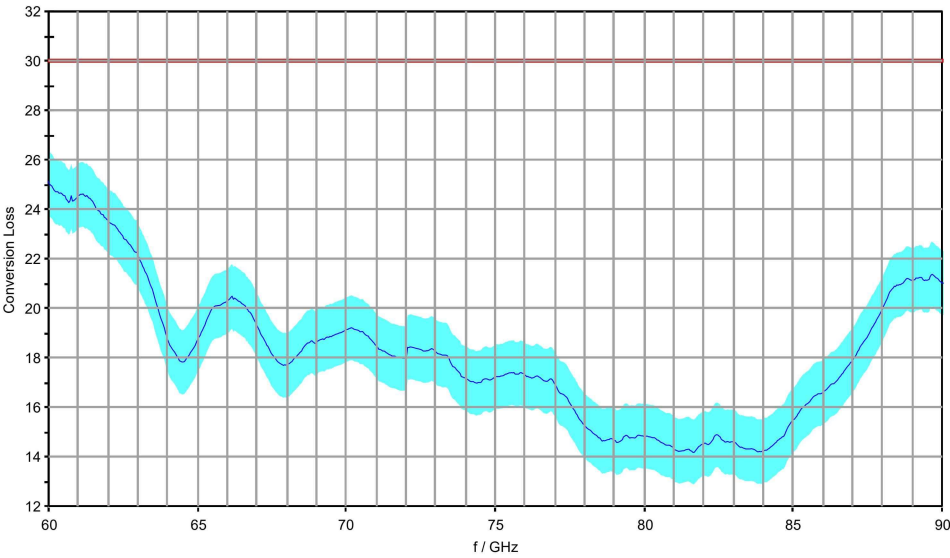
IF = 404.4 MHz, 6. Harmonic

1.2 Conversion Loss (IF = 729 MHz)

IF = 729 MHz, 6. Harmonic

1.3 Conversion Loss (IF = 1330 MHz)

IF = 1330 MHz, 6. Harmonic

1.4 Continuity response within 1 GHz

Continuity response within any 1 GHz Band, 6. Harmonic

	DUL /dB	Continuity /dB
max. at IF = 404.4 MHz:	6.0	3.46
max. at IF = 729 MHz:	6.0	3.80
max. at IF = 1330 MHz:	6.0	3.42

Incoming Results

Designation:	**HARMONIC MIXER**
Type:	**FS-Z90**
Material No.:	**1048.0371.02**
Serial No.:	**101811**
Certificate No.:	**0001A300623436**
Referring to Test Documentation:	**5038.8323.01-PB-02.00**

Test Department:	**3MM-P**
Name:	**Michael Haupt**
Date:	**2021-11-16**