



EUROFINS PRODUCT SERVICE GMBH



TEST - REPORT

**FCC RULES PART 15 / SUBPART C §15.249
RSS 210 Issue 7**

FCC ID: NUDHG76360

SR-radio module

HG 76360

Test report no.: G0M21009-3638-C-1



Eurofins Product Service GmbH
Storkower Str. 38c, 15526 Reichenwalde,
Germany

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Product Service GmbH is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

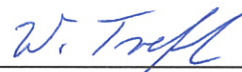
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Operator:

10.06.2011

W. Treffke



Date

Eurofins Lab

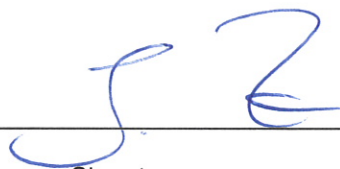
Name

Signature

Technical responsibility for area of testing:

10.06.2011

J. Zimmermann



Date

Eurofins

Name

Signature

1.2 Testing laboratory

1.2.1 Location

EUROFINS PRODUCT SERVICE GMBH
Storkower Strasse 38c
D- 15526 Reichenwalde
Germany
Telephone : + 49 33631 888 00
Telefax : + 49 33631 888 660

1.2.2 Details of accreditation status

DAKKS ACCREDITED TESTING LABORATORY
DAKKS-REGISTRATION NUMBER: D-PL-12092-01-01

RECOGNIZED NOTIFIED BODY EMC
REGISTRATION NUMBER: BNetzA-bS EMV-07/61

RECOGNIZED NOTIFIED BODY R&TTE
REGISTRATION NUMBER: BNetzA-bS-02/51-53

FCC FILED TEST LABORATORY
REG.-No. 96970

A2LA ACCREDITED TESTING LABORATORY
CERTIFICATE NO. 1983.01

BLUETOOTH QUALIFICATION TEST FACILITY (BQTF)
ACCREDITED BY BLUETOOTH QUALIFICATION REVIEW BOARD

INDUSTRY CANADA FILED TEST LABORATORY
REG. No. IC 3470

1.2.3 Details of approval holder

Name	: Gerhard Schubert GmbH Verpackungsmaschinen
Street	: Hofäckerstr. 7
Town	: 74564 Crailsheim
Country	: GERMANY
Telephone	: +49 7951 400803
Contact	: Herr Jens Stoll
Telephone	: +49 7951 400803
E-mail	: j.stoll@gerhard-schubert.de

1.4 Application details

Date of receipt of application : 15.12.2010
Date of receipt of test item : 15.12.2010
Date of test : 21.12.2010

1.5 Test item

Description of test item : SR-radio module
Type identification : HG 76360
Serial number : 210462 (module 1)
210463 (module 2)
Photos : See Annex A

Technical data

Assigned Frequency band : 2400 -2483.5MHz
Frequency range : 2402 -2478MHz
Tested frequencies : F₁ 2401MHz
F₂ 2438MHz
F₃ 2475MHz
Antenna 1 : external antenna HG G-97601ZA (2.45GHz)
Antenna gain 1 : 0dBi
Antenna 2 : external antenna HW CAB00058
Antenna gain 2 : 0dBi
Number of Channels : 76
Hardware Version : V3
Software version : V1
Power supply : 5VDC

Manufacturer:

Name : Götting KG
Street : Celler Str. 5
Town : 31275 Lehrte/Röddersen
Country : GERMANY

1.6 Test standards

Technical standard : FCC RULES PART 15 / SUBPART C § 15.249
IC Standards: RSS 210 Issue 7

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed. ☐

2.2 Test environment

Temperature : 25°C

Relative humidity content : 45%

Air pressure : 936 hPa

Extrem conditions parameters: : test voltage - extreme nom.: 5.0VDC
min.: 4.5VDC
max: 5.5VDC

Additional information : The device works with two different antennas.

2.3 Test equipment utilized

ID No.	Test equipment	Type	Manufacturer
ETS 0012	Biconical Antenna	HK 116	R & S
ETS 0013	LPD Antenna	HL 223	R & S
ETS 0014	Log Periodical Antenna	HL 025	R & S
ETS 0271	Spectrum Analyzer	FSEK30	R & S
ETS 0288	Artificial mains	ESH2-Z5	R & S
ETS 00086	Anechoic chamber	AC 1	Frankonia

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 6.4 using a spectrum analyzer. The resolution bandwidth of the spectrum analyzer was 100 kHz for measurements below 1 GHz and RBW 1 MHz was used above 1 GHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 23 °C with a humidity of 43 %.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @ 3 m

ANSI STANDARD C63.4-2003 6.2.1 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5 m (non metallic table). The UUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

Measurements were made by EUROFINS PRODUCT SERVICE GMBH

at the registered open field test site located at Storkower Str. 38c, 15526 Reichenwalde, Germany.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1 m to 4 m. The antenna was placed in both the horizontal and vertical planes.

ANTENNA & GROUND:

The unit use external antennas.

3 Test results

TEST CASE	FCC 49CFR PART	IC RSS-	Required	Test passed	Test failed
<i>Transmitter parameter</i>					
Output Power (Field Strength)	15.249(a)	RSS 210 A 2.9	☒	☒	☐
Spurious Emissions radiated - Transmitter operating	15.249 (d)	RSS 210 A 2.9	☒	☒	☐
Spurious Emissions conducted - Transmitter operating	15.249 (d)	RSS 210 A2.9	☐	☐	☐
Occupied bandwidth	15.215(c);	RSS GEN 4.6.1	☐	☐	☐
Out of Band Spurious Emission, Bandedge-Transmitter operating	15.249 (d)	RSS 210 A 2.9	☐	☐	☐
Conducted Measurement at (AC) Power Line	15.207	Gen 7.2.2	☐	☐	☐
<i>Receiver Parameter</i>					
Radiated emissions	15.107	Gen 7.2.3	☐	☐	☐

3.1 Output Power (Field Strength) FCC § 15.249 (a), RSS 210 A2.9

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

Limits:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 - 928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

The power was measured with modulation (declared by the applicant).

Test conditions	Frequency [dBμV/m]
	2401MHz
$T_{nom} = 25^{\circ}C$ $V_{nom} = 5VDC$	90.40
Measurement uncertainty	< 3 dB

Remark: See attached diagrams Annex.

3.1.2 De facto equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.1.3 Transmitter

At the transmitter the measurement was transacted with the modulation declared by the manufacturer and the maximum available output power of the EUT.

3.2 RF Exposure Compliance Requirements

Not applicable for this kind of device for the low power level.

3.3 Radiated Emissions; FCC § 15.249 (d); RSS 210 A2.9

Out of Band Radiated Emissions

FCC Rule: 15.249(d), 15.35(b); RSS 210 A2.9

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Limits:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

For frequencies above 1GHz (Peak measurements).

Limit + 20 dB

54.0 dBμV/m + 20 dB= 74 dBμV/m

or

46.0 dBμV/m + 20 dB= 66 dBμV/m

Must be antenuatted at least 50 dB below the level of fundamental emission

Spurious emission was measured with modulation (declared by manufacturer).

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

The peak and average spurious emission plots was measured with the average limits.
The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Freq.	Used Ch.	Frequency Marker [GHz]	Polarization	Max. Field Strength [dBμV/m]	Compliance Limit [dBμV/m]	Detector	BW [MHz]	Margin [dB]
Carrier	1	2401	h	90.4	114.0	PK	1	-23.6
Carrier	1	2401	v	85.1	114.0	PK	1	-28.9
	1	2749	v	42.7	54.0	AV	1	-11.3
	1	2749	v	56.3	74.0	PK	1	-17.7
	1	2749	h	41.0	54.0	AV	1	-13.0
	1	2749	h	54.6	74.0	PK	1	-19.4
	75	2749	h	41.4	54.0	AV	1	-12.6
	75	2749	h	55.6	74.0	PK	1	-18.4
Carrier	75	2475	h	85.7	114.0	PK	1	-28.3
Carrier	75	2475	v	84.3	114.0	PK	1	-29.7
Carrier	75	2438	h	86.8	114.0	PK	1	-27.2
Carrier	75	2438	v	75.7	114.0	PK	1	-38.3
	Hopping	750	h	45.0	46.0	QP	0.12	-1.0
	Hopping	450	v	44.4	46.0	QP	0.12	-1.6

Freq. – Frequency Range:

- 1: 30 – 200 MHz
- 2: 200 – 1000 MHz
- 3: 1 – 4 GHz
- 4: 4 – 8 GHz
- 5: 8 – 12 GHz
- 6: 12 – 17 GHz
- 7: 17 – 26.5 GHz

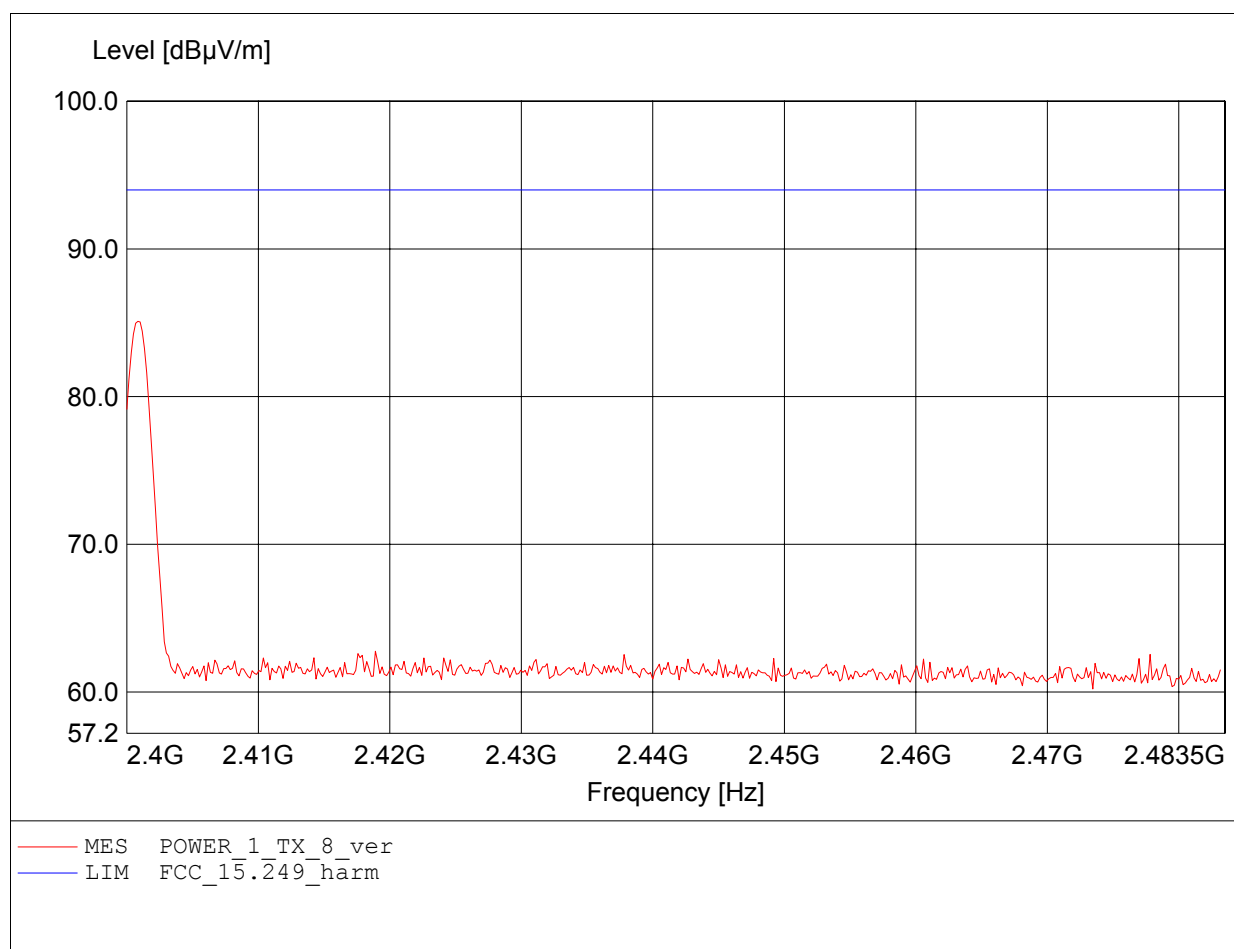
TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Remark: See attached diagrams Annex.

Annex B **Fundamental Field Strength**

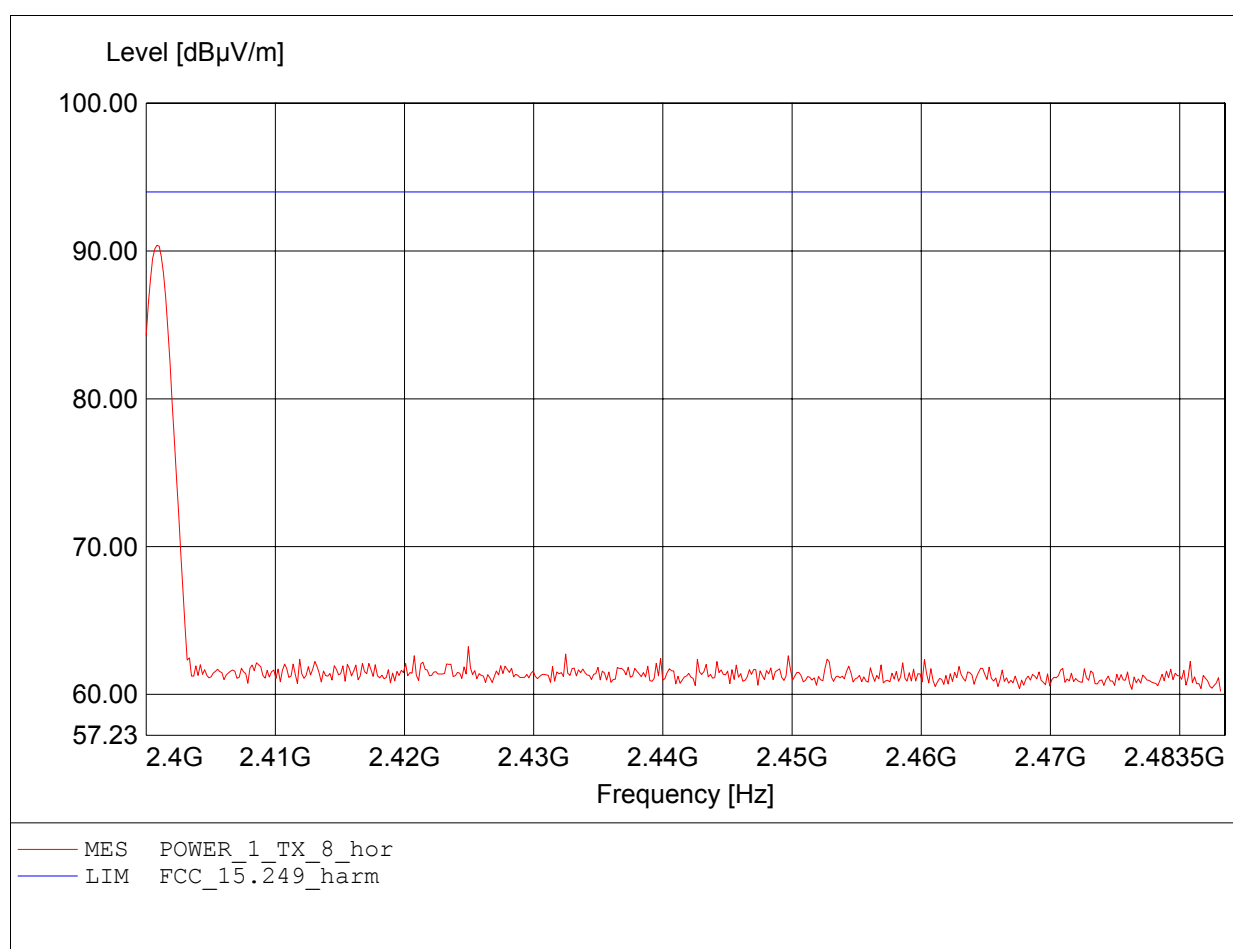
Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, PK
Comment 2: Freq: 2.401GHz, Emax: 85.10dBµV/m, RBW: 1MHz



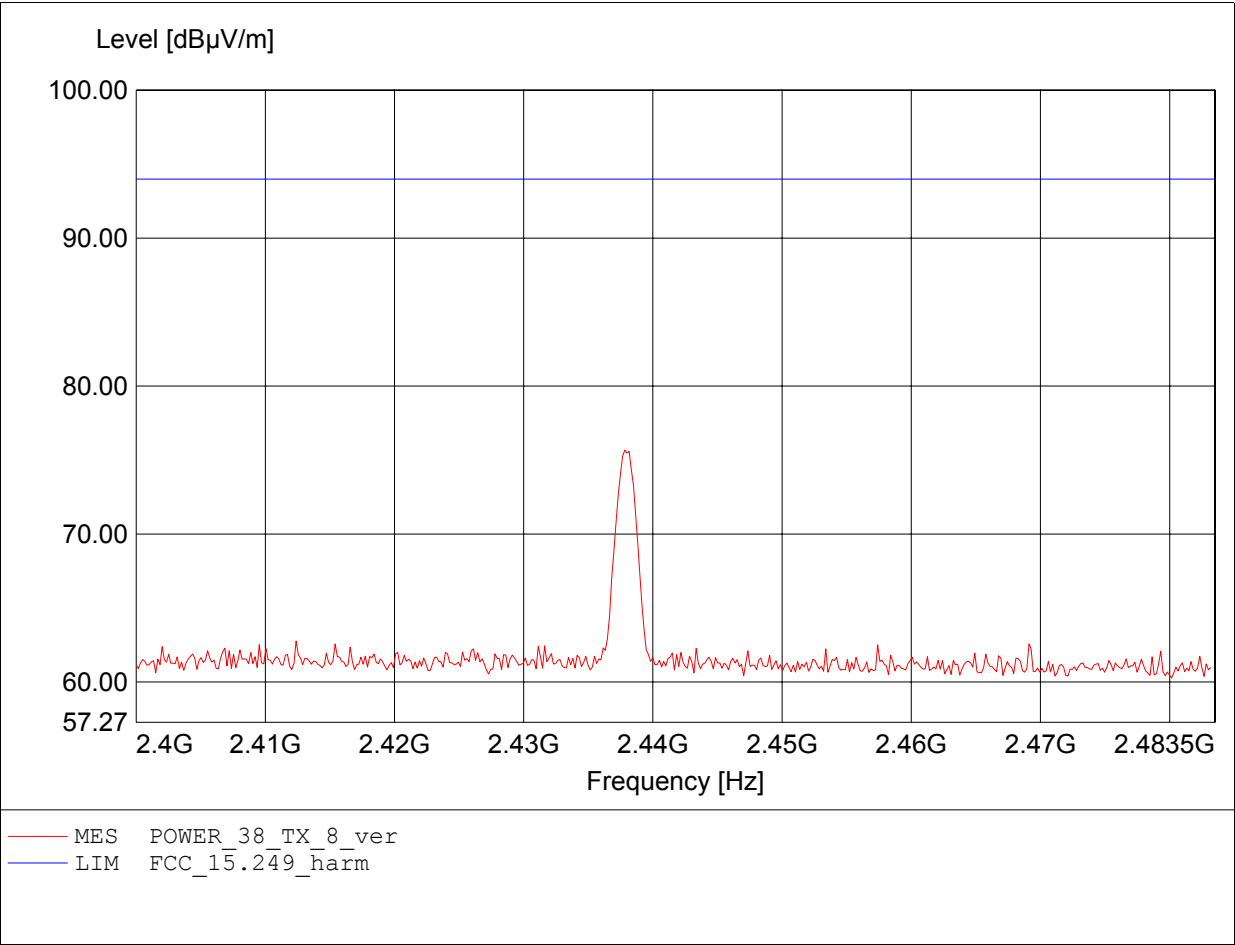
Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, PK
Comment 2: Freq: 2.401GHz, Emax: 90.40dBµV/m, RBW: 1MHz



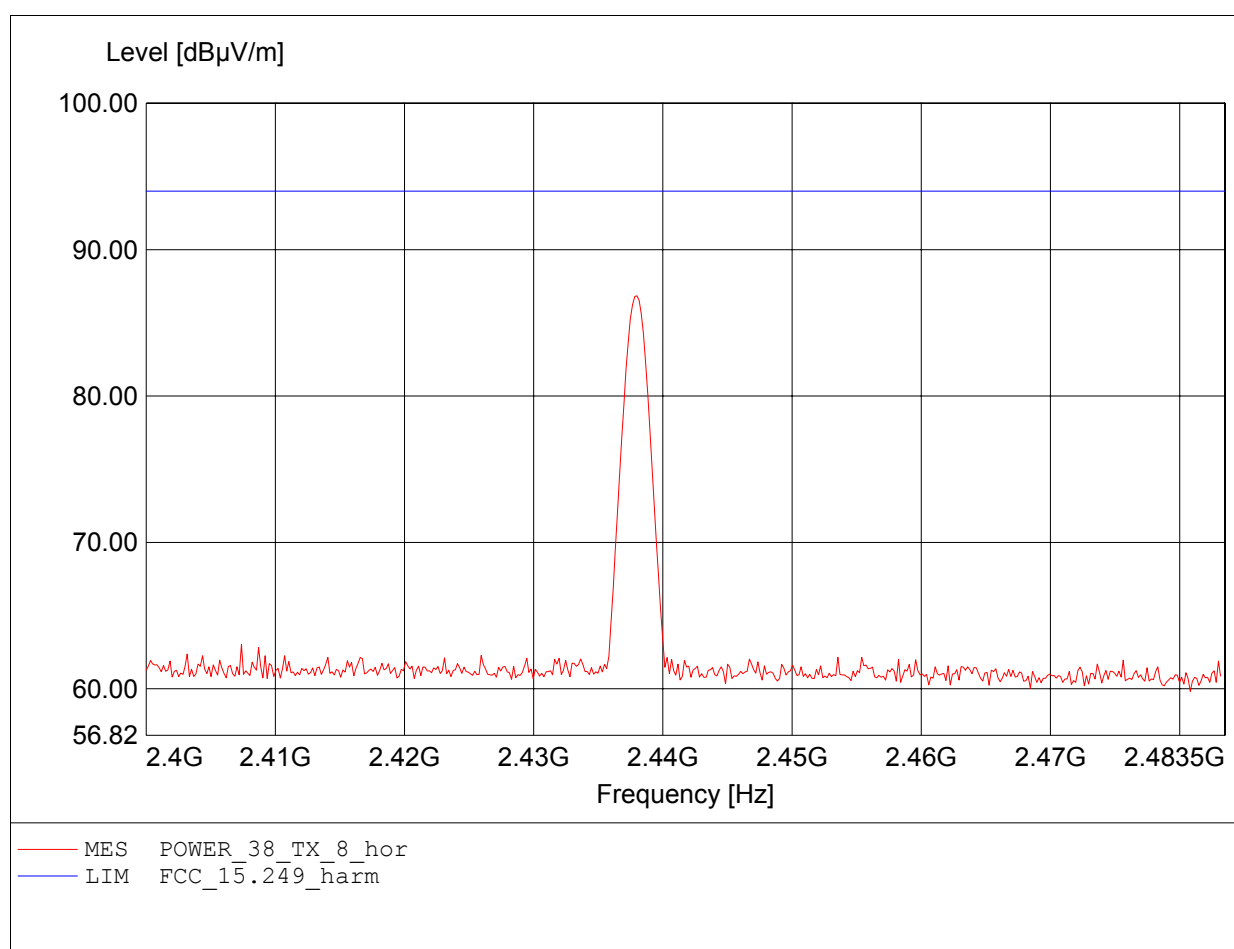
Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, PK
Comment 2: Freq: 2.438GHz, Emax: 75.68dBµV/m, RBW: 1MHz



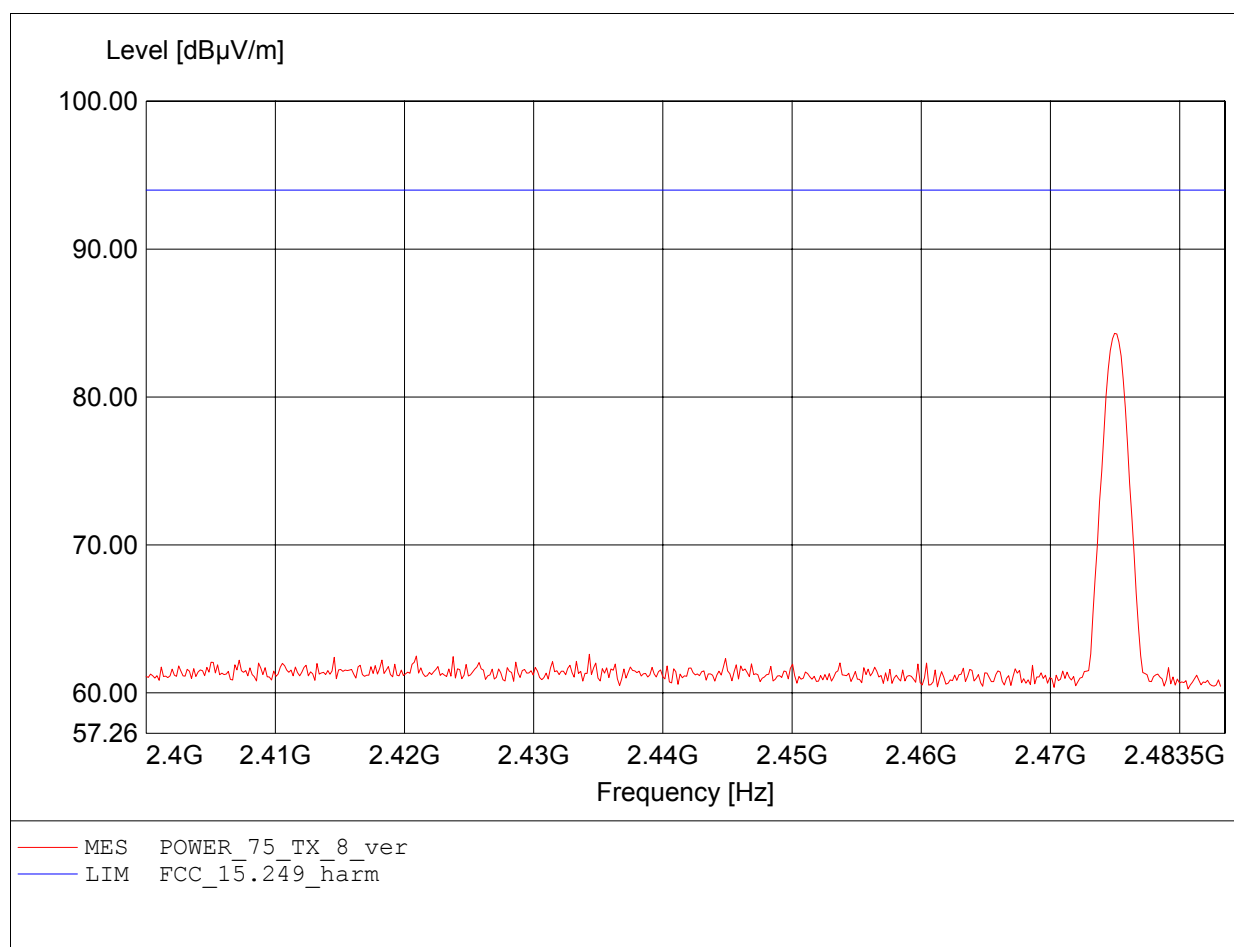
Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, PK
Comment 2: Freq: 2.438GHz, Emax: 86.85dBµV/m, RBW: 1MHz



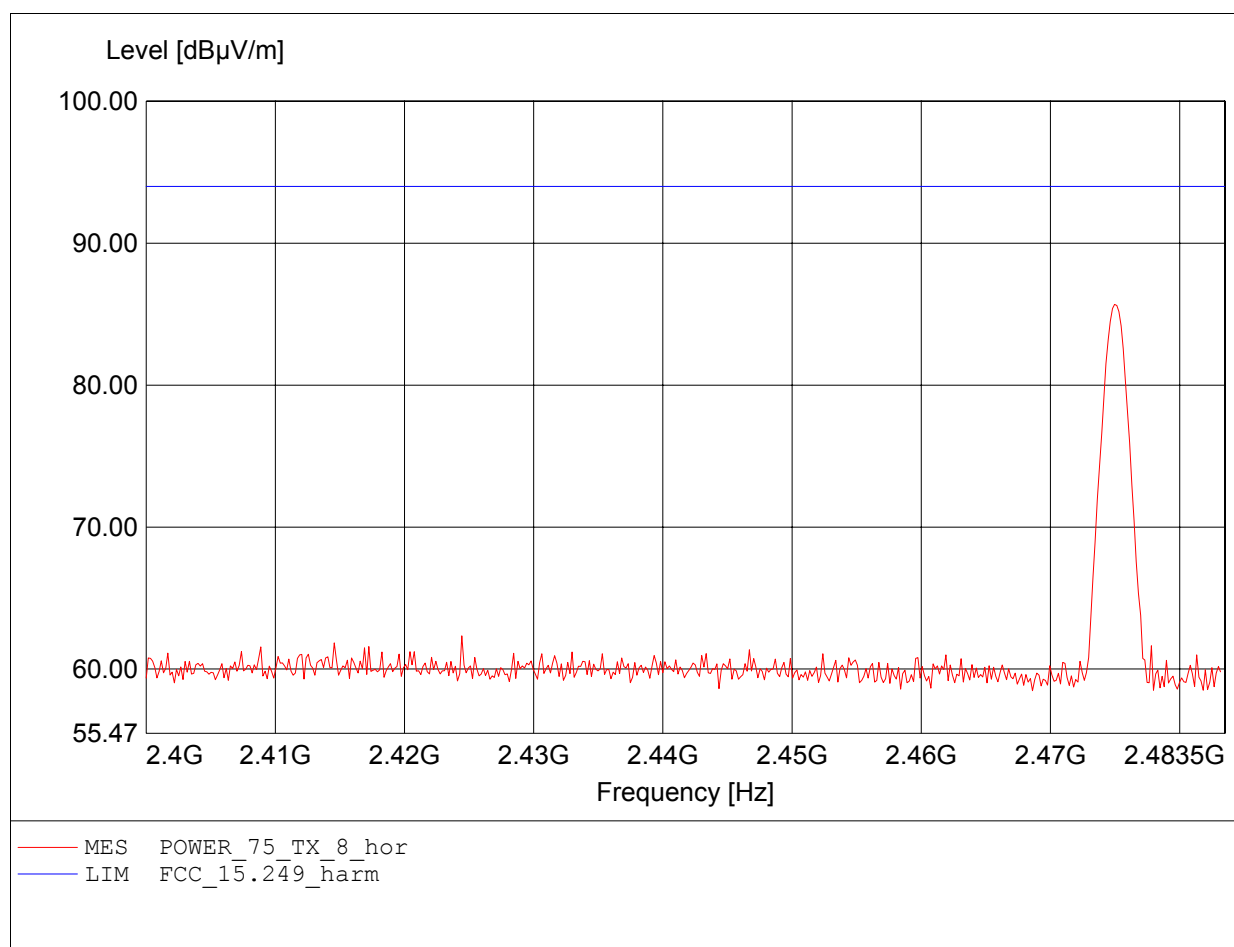
Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, PK
Comment 2: Freq: 2.475GHz, Emax: 84.31dBµV/m, RBW: 1MHz



Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

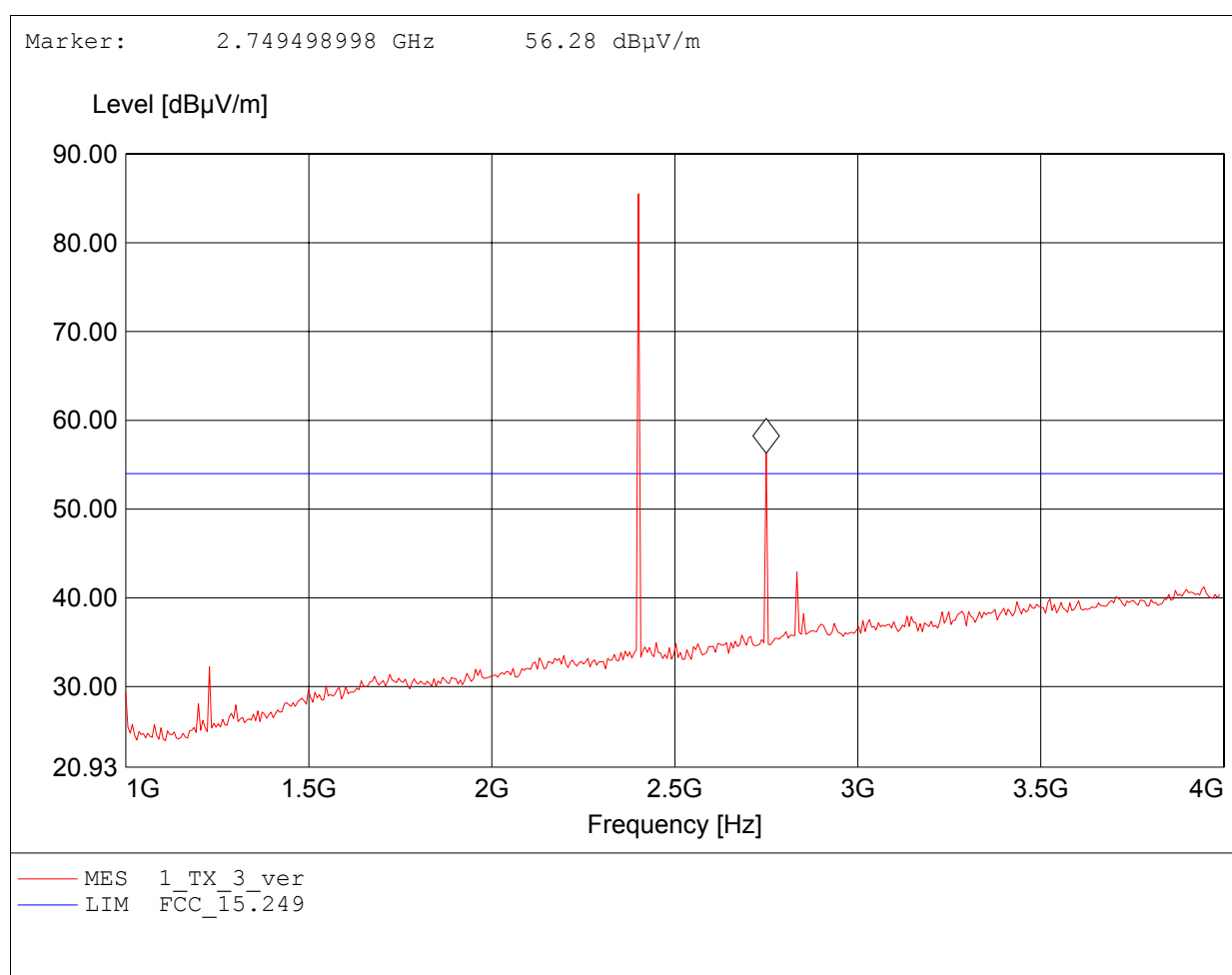
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EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, PK
Comment 2: Freq: 2.475GHz, Emax: 85.69dBµV/m, RBW: 1MHz



Annex C **Spurious Emissions radiated - Transmitter operating**

Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

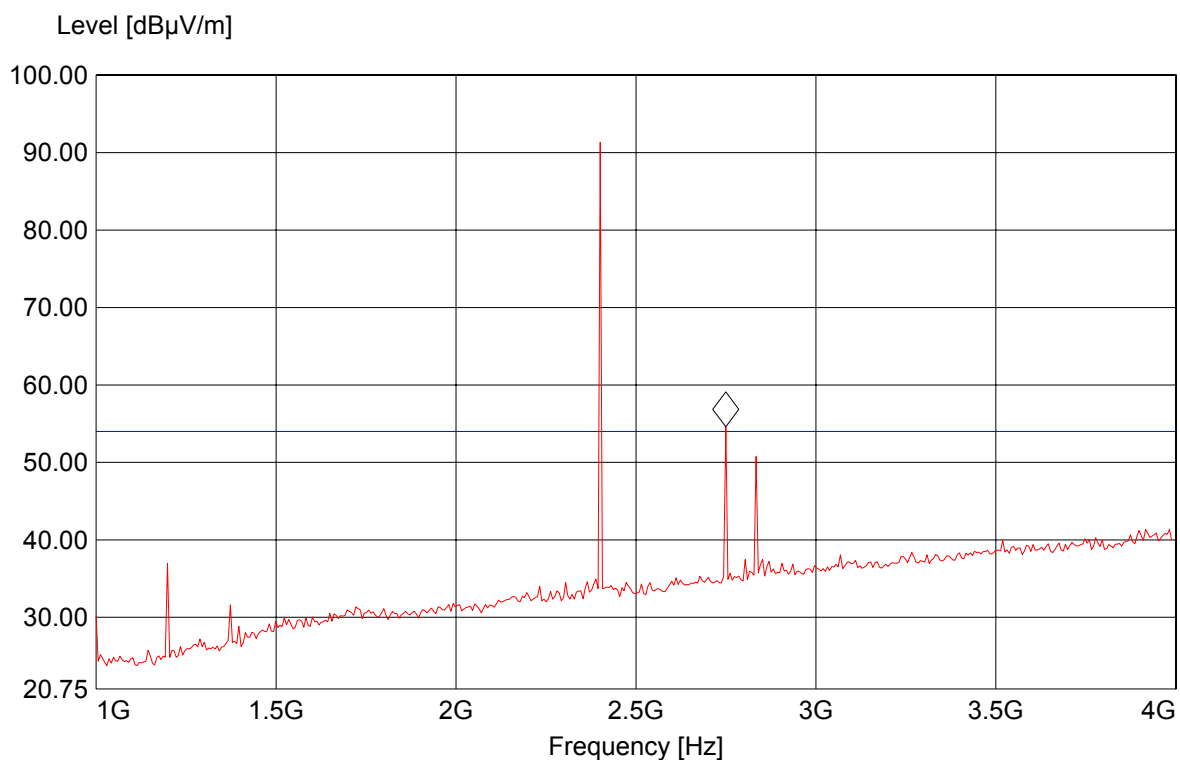
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EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, amplif., PK
Comment 2: Freq: 2.401GHz, Emax: 85.53dBµV/m, RBW: 1MHz



Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, amplif., PK
Comment 2: Freq: 2.401GHz, Emax: 91.34dBµV/m, RBW: 1MHz

Marker: 2.749498998 GHz 54.6 dBµV/m

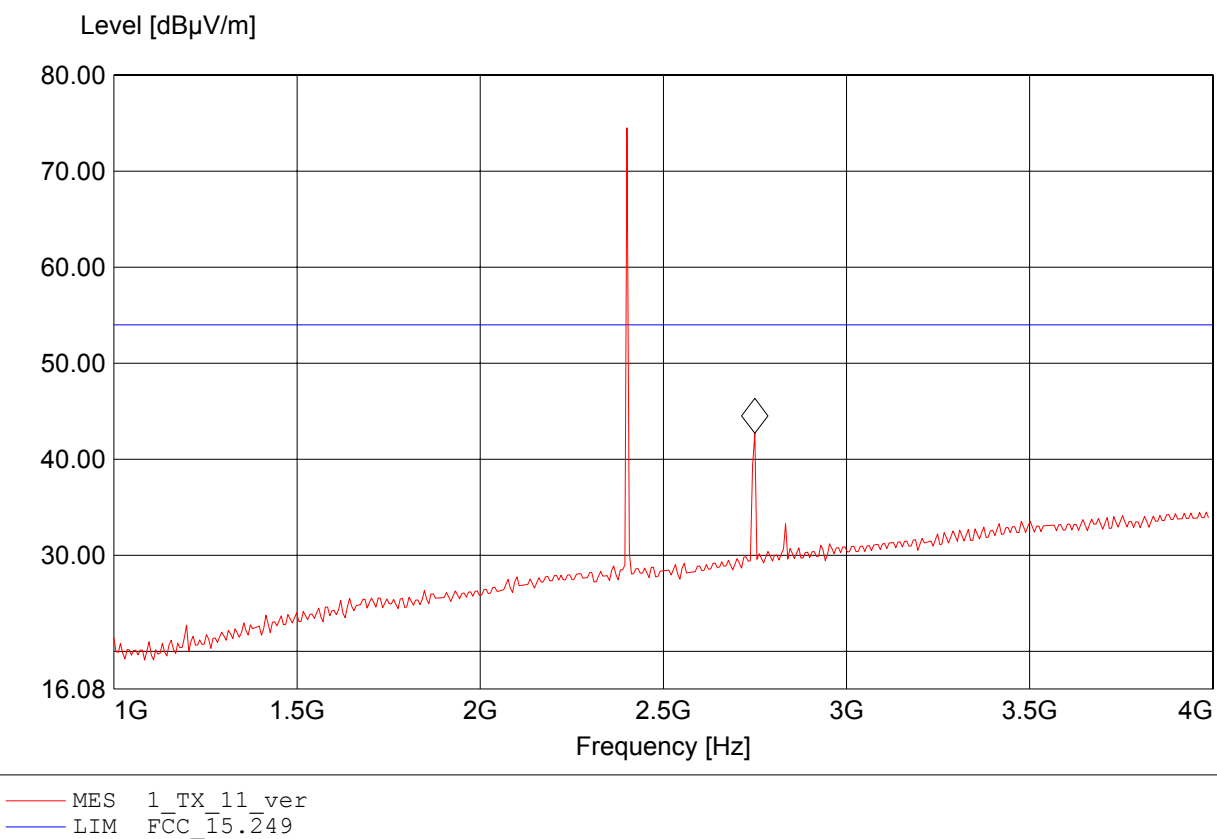


MES 1_TX_3_hor
LIM FCC_15.249

Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., AV
Comment 2: Freq: 2.401GHz, Emax: 74.52dBµV/m, RBW: 1MHz

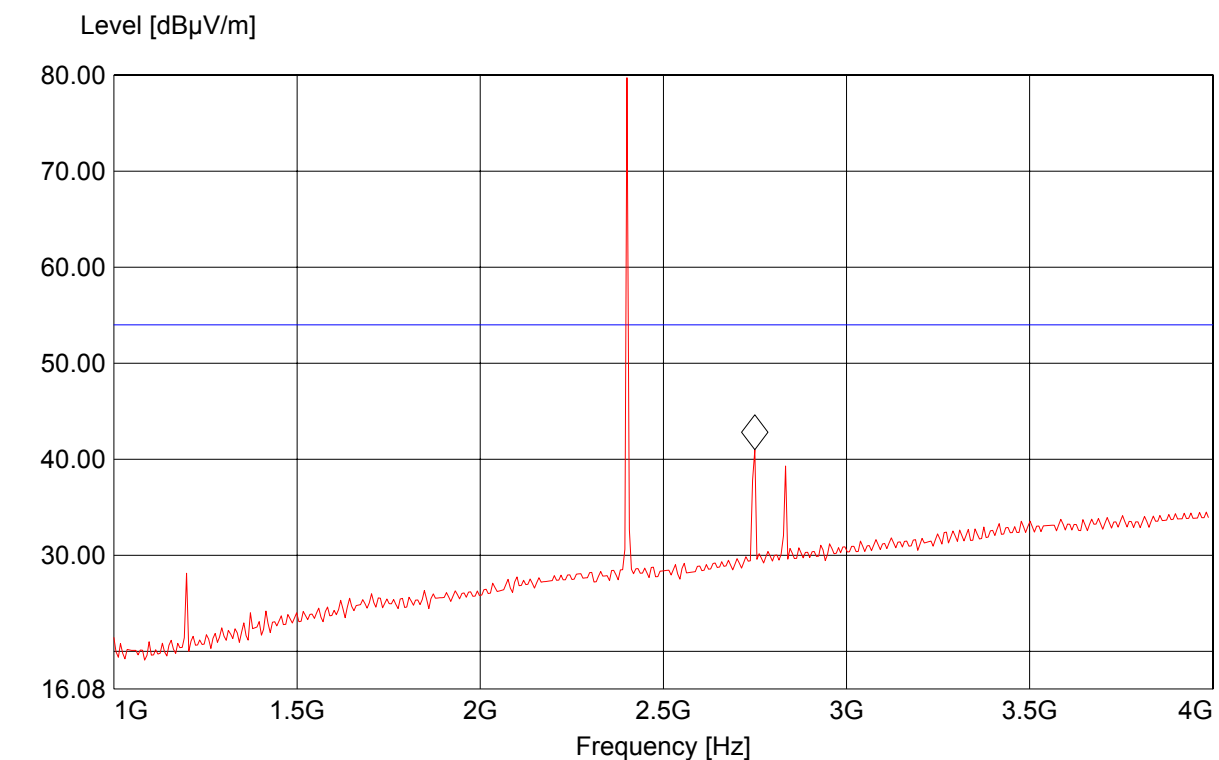
Marker: 2.749498998 GHz 42.71 dBµV/m



Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., AV
Comment 2: Freq: 2.401GHz, Emax: 79.74dBµV/m, RBW: 1MHz

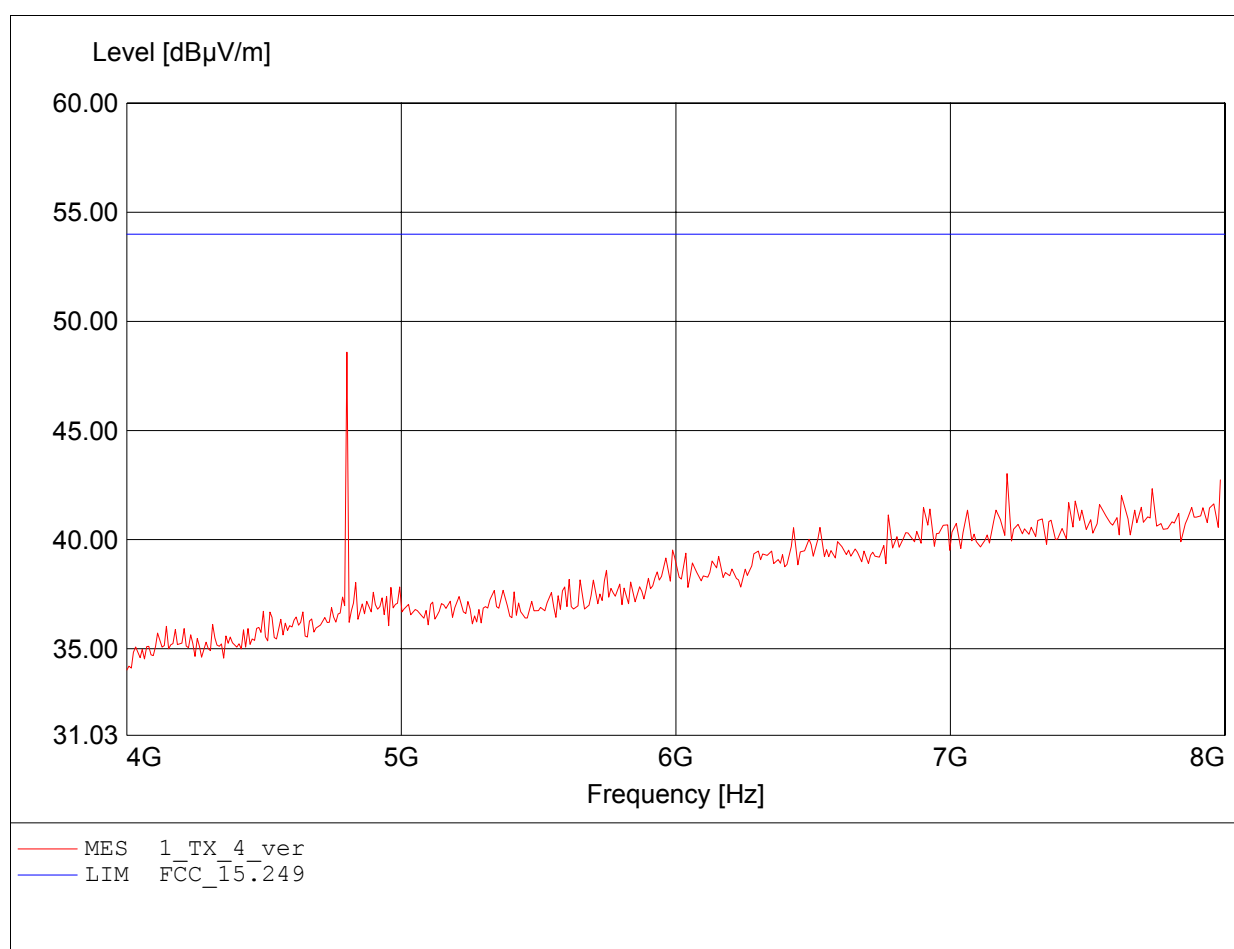
Marker: 2.749498998 GHz 41.01 dBµV/m



MES 1_TX_11_hor
LIM FCC_15.249

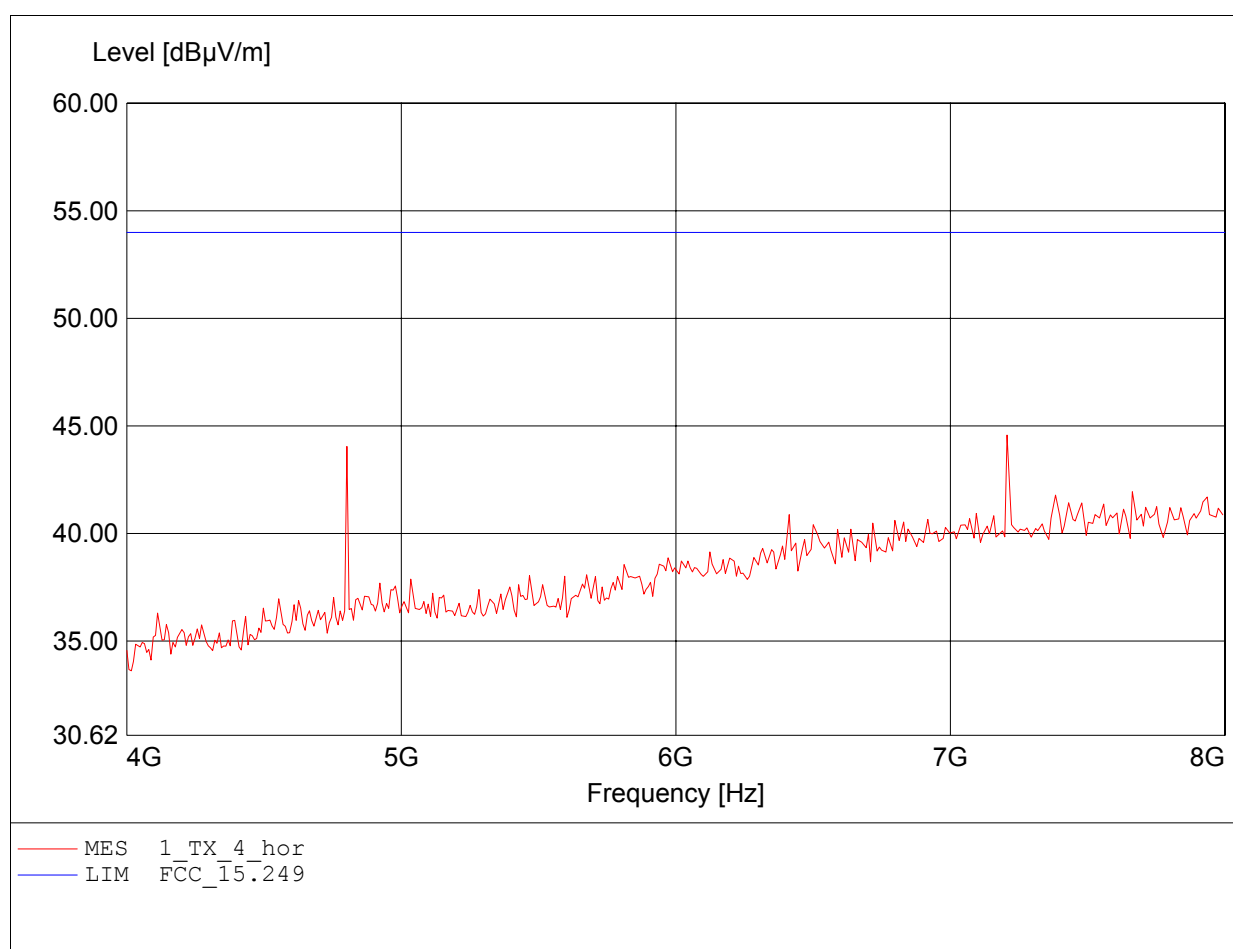
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 4.802GHz, Emax: 48.59dBµV/m, RBW: 1MHz



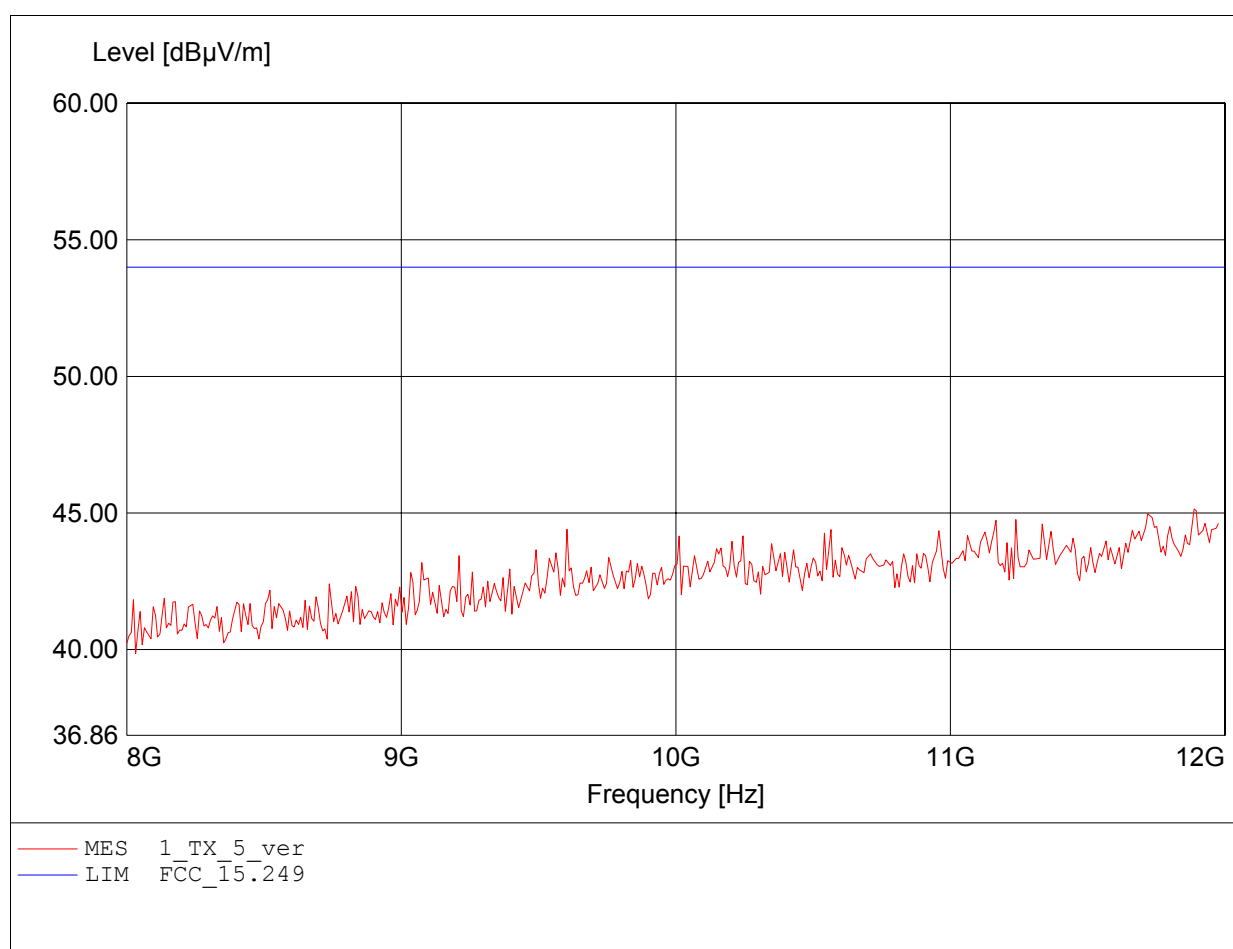
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 7.206GHz, Emax: 44.58dBµV/m, RBW: 1MHz



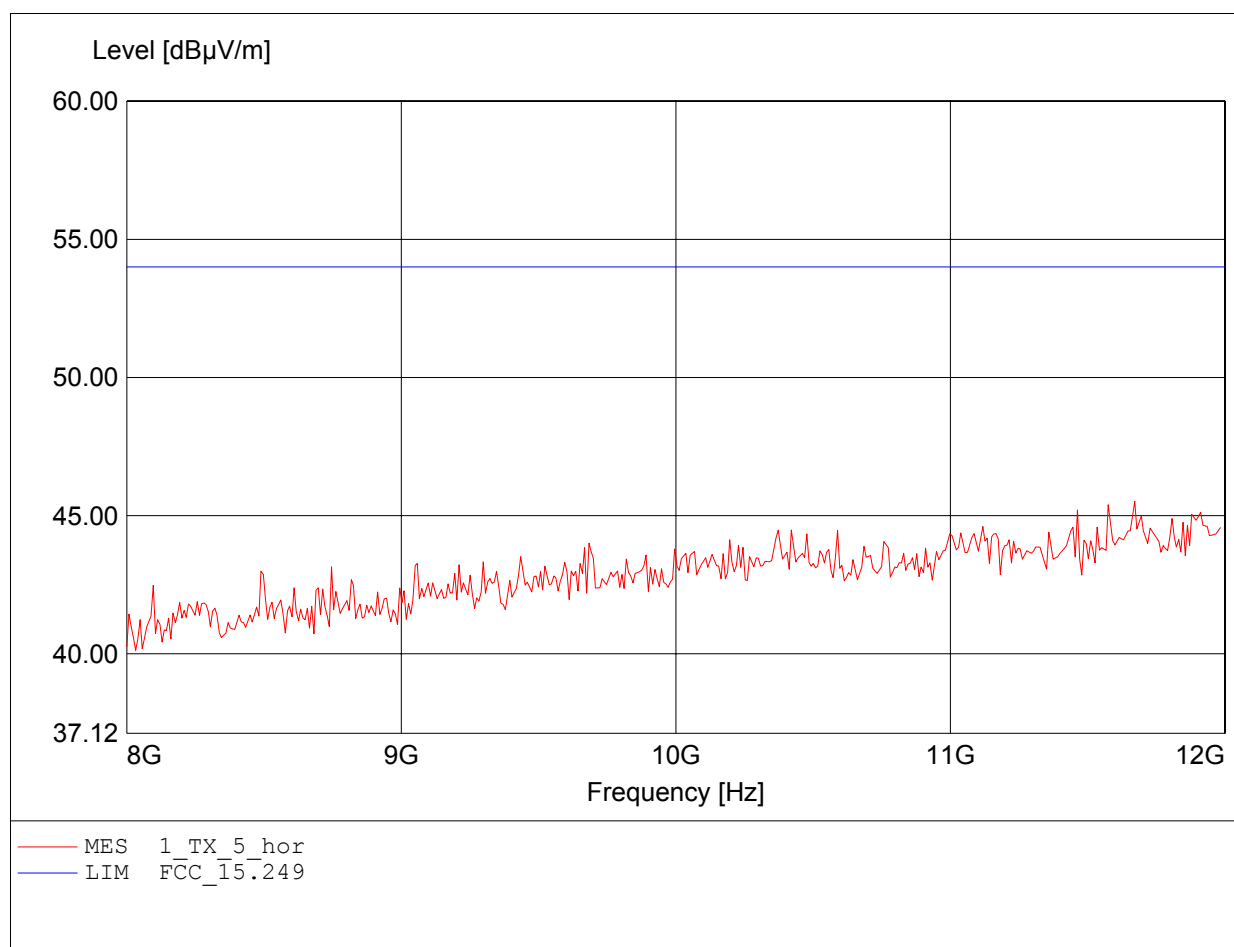
Spurious emissions Field Strength
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Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 11.888GHz, Emax: 45.15dBμV/m, RBW: 1MHz



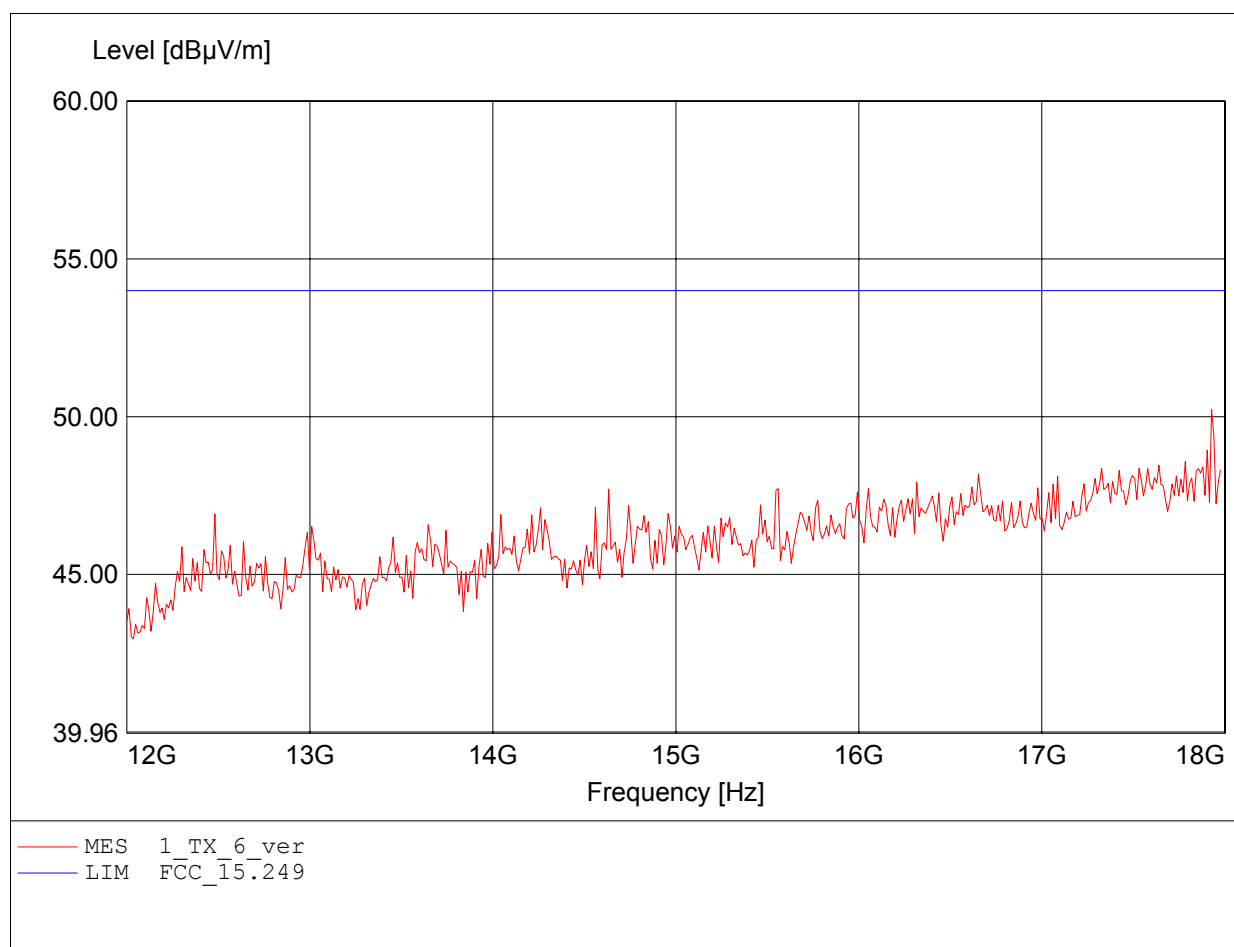
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 11.671GHz, Emax: 45.52dBµV/m, RBW: 1MHz



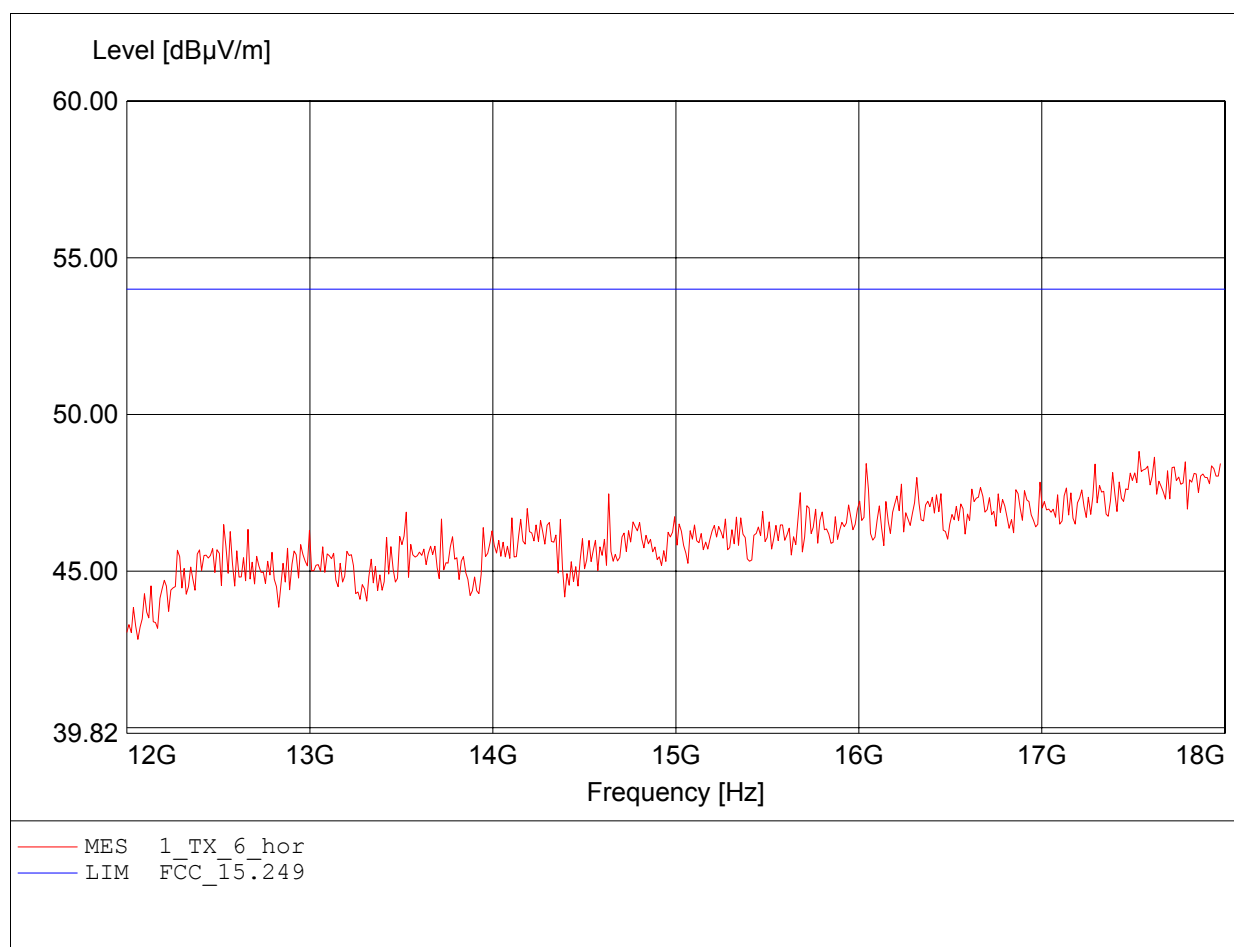
Spurious emissions Field Strength
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Testmode Module 1 and 2 0dBm
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Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 17.928GHz, Emax: 50.23dBµV/m, RBW: 1MHz



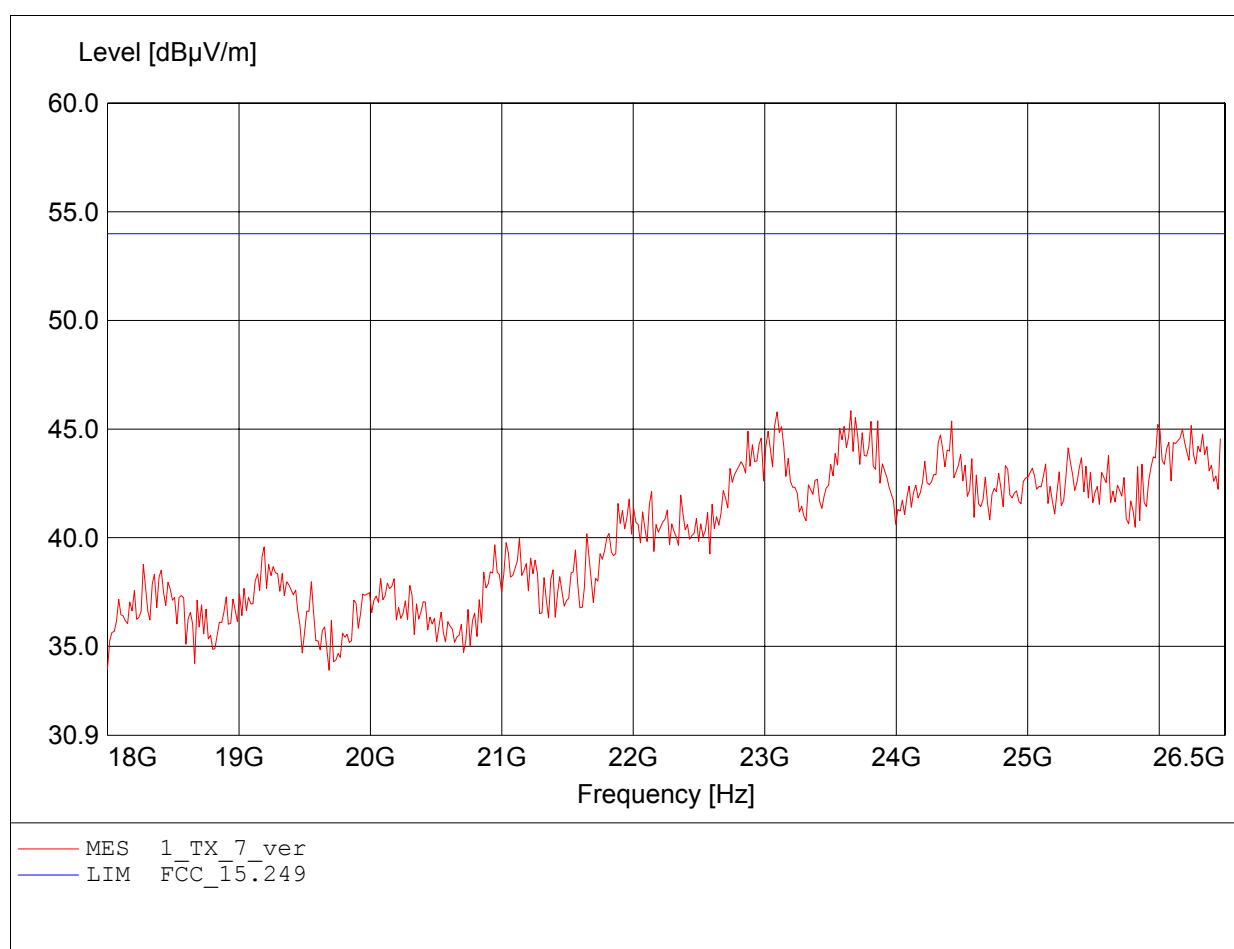
Spurious emissions Field Strength
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Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 17.531GHz, Emax: 48.82dBµV/m, RBW: 1MHz



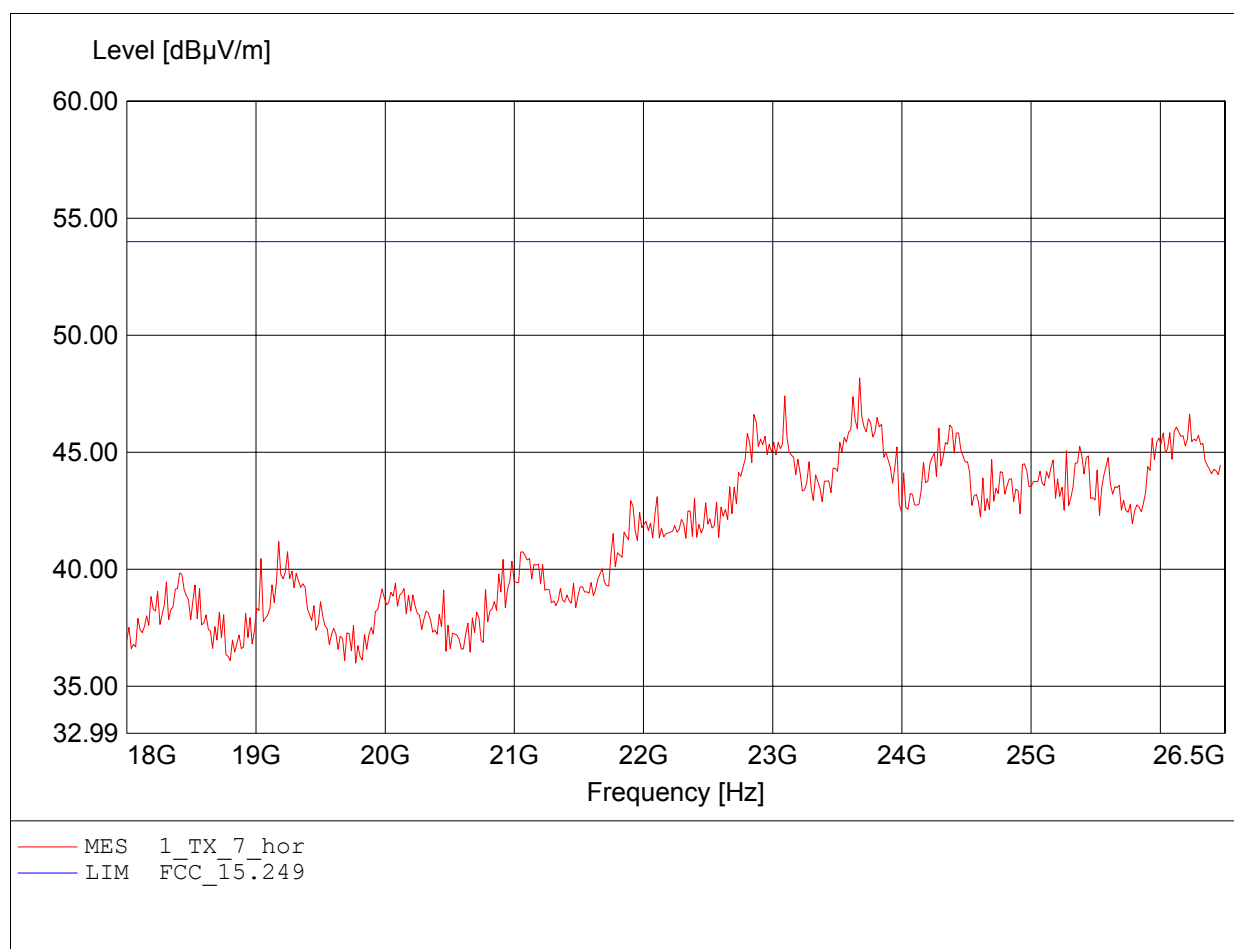
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 23.655GHz, Emax: 45.85dBµV/m, RBW: 1MHz



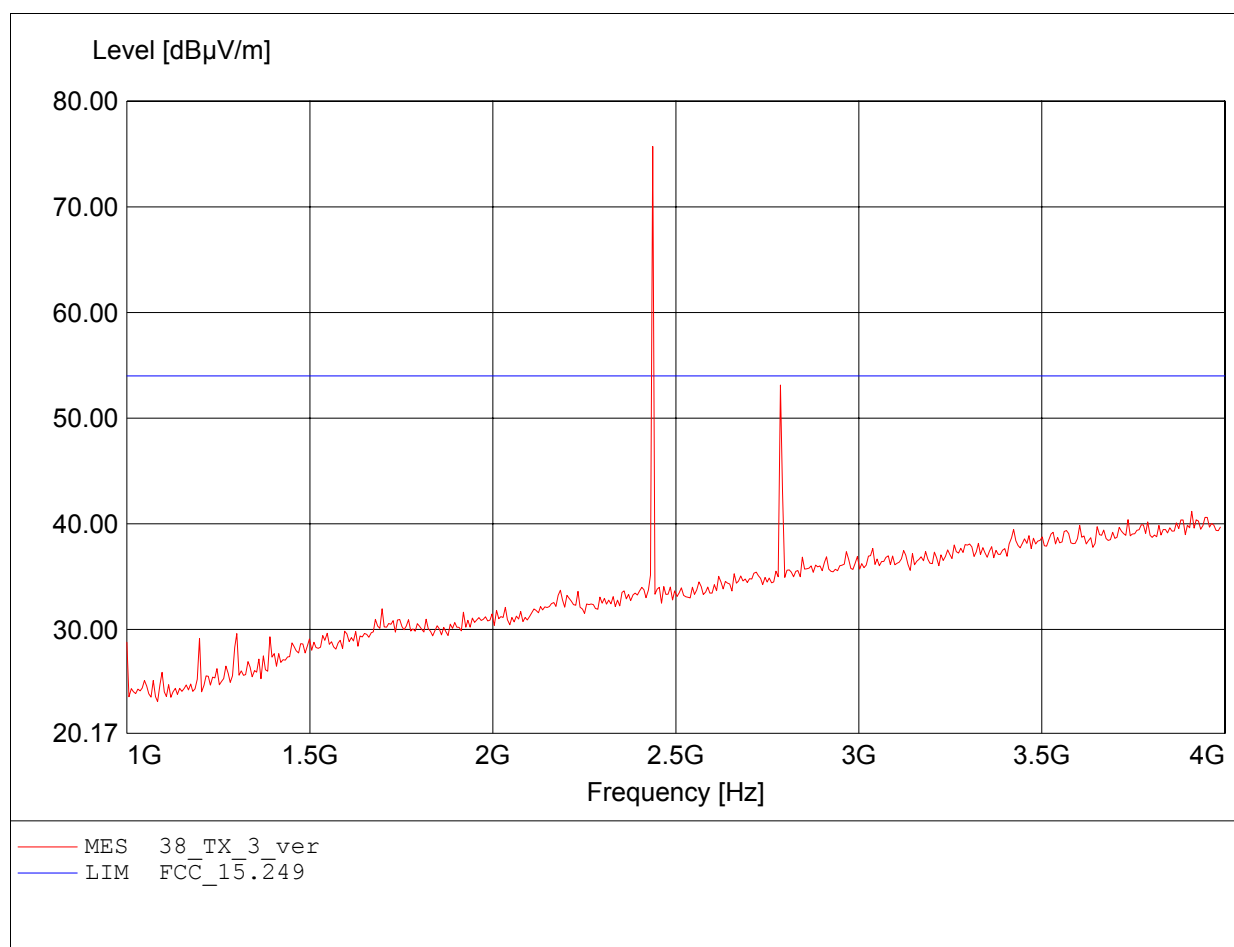
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 23.672GHz, Emax: 48.17dBµV/m, RBW: 1MHz



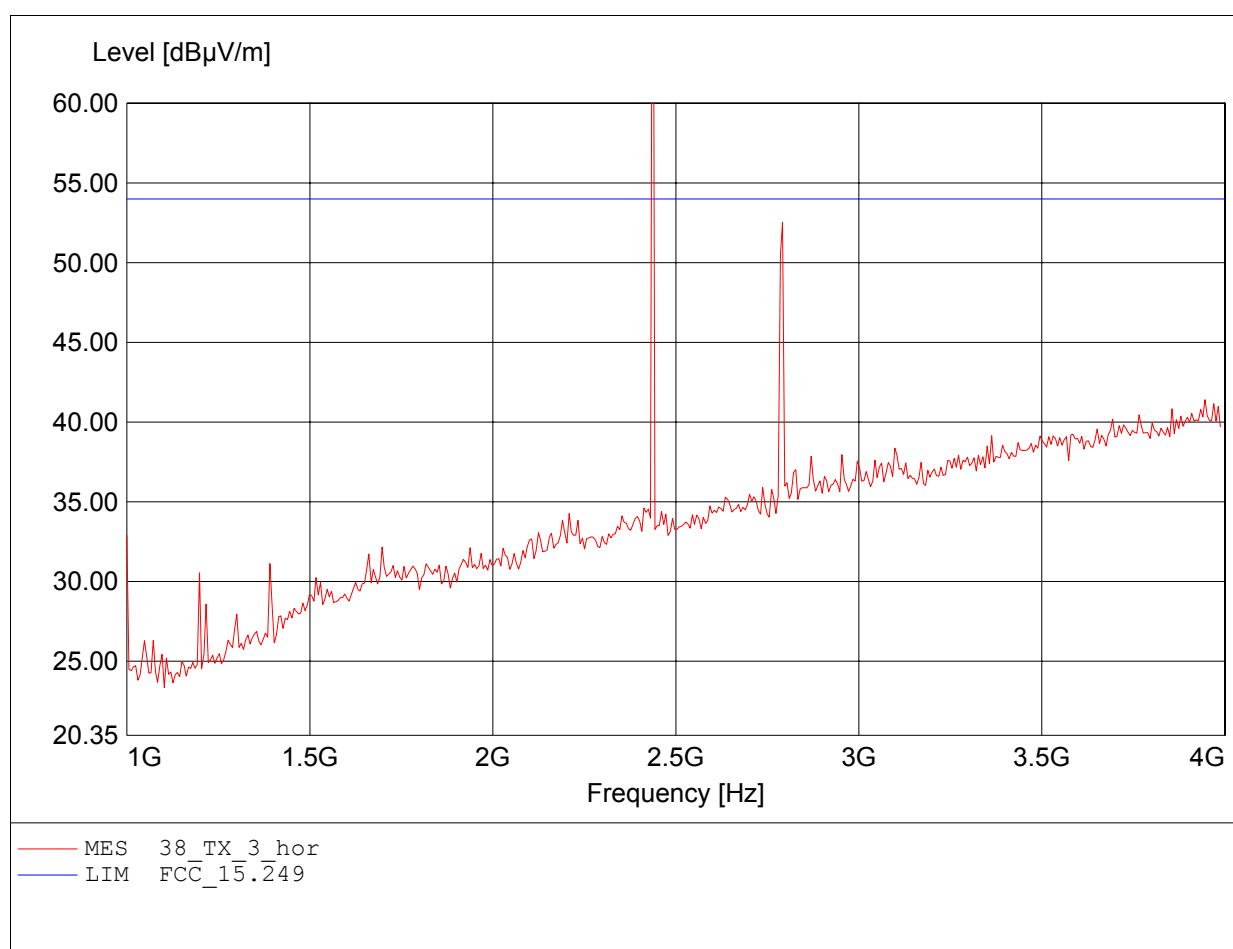
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, amplif., PK
Comment 2: Freq: 2.437GHz, Emax: 75.73dBµV/m, RBW: 1MHz



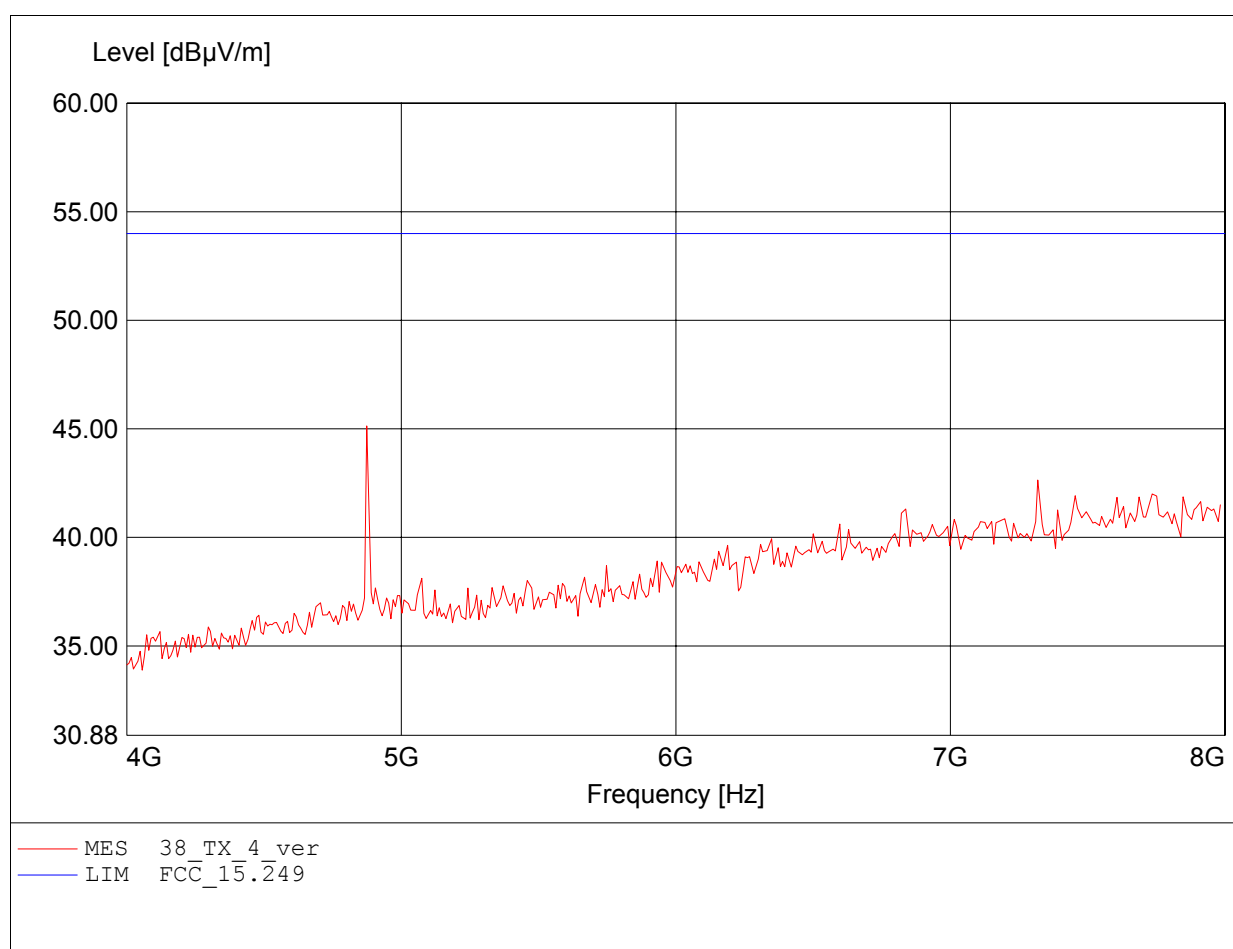
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, amplif., PK
Comment 2: Freq: 2.437GHz, Emax: 87.79dBµV/m, RBW: 1MHz



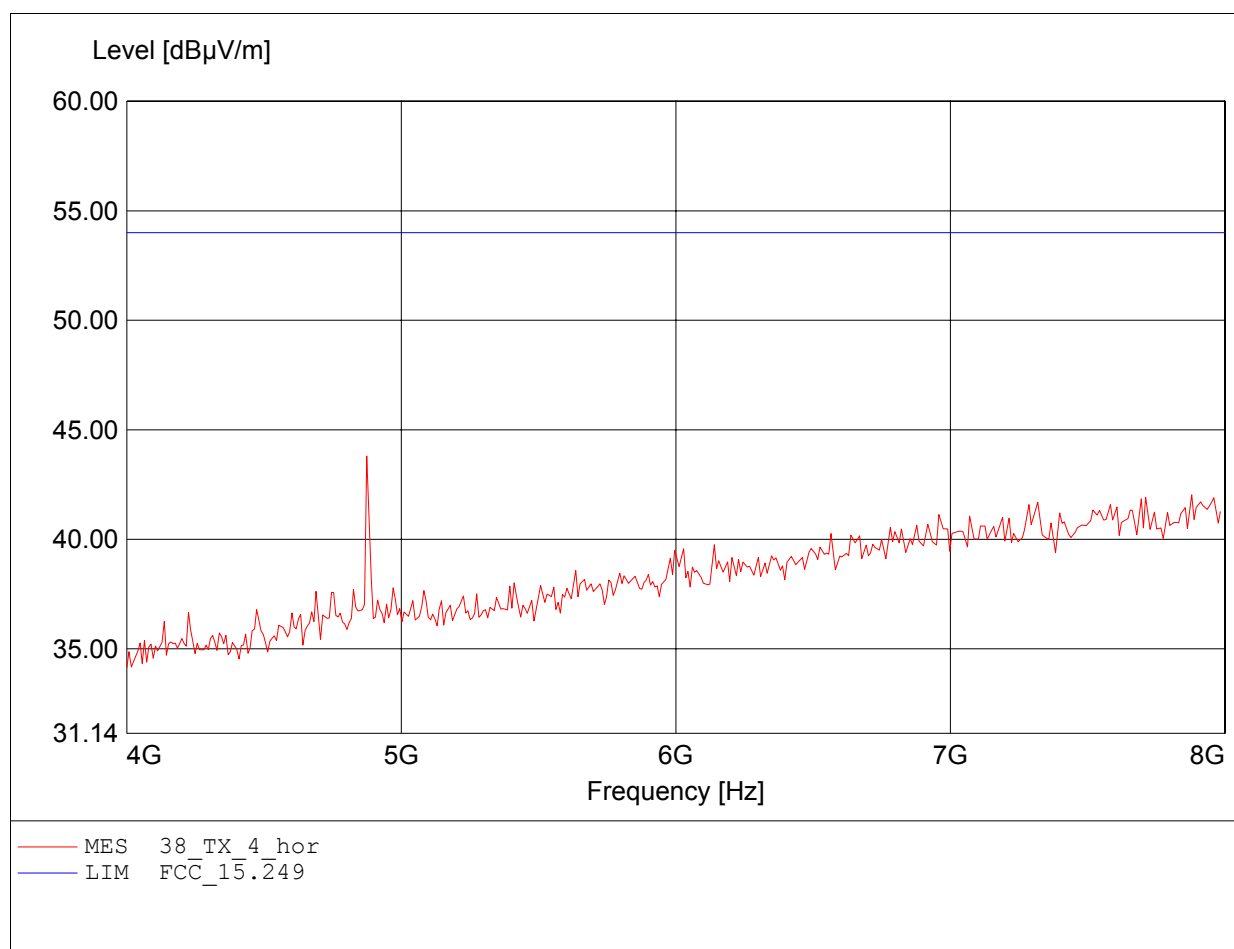
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 4.874GHz, Emax: 45.14dBμV/m, RBW: 1MHz



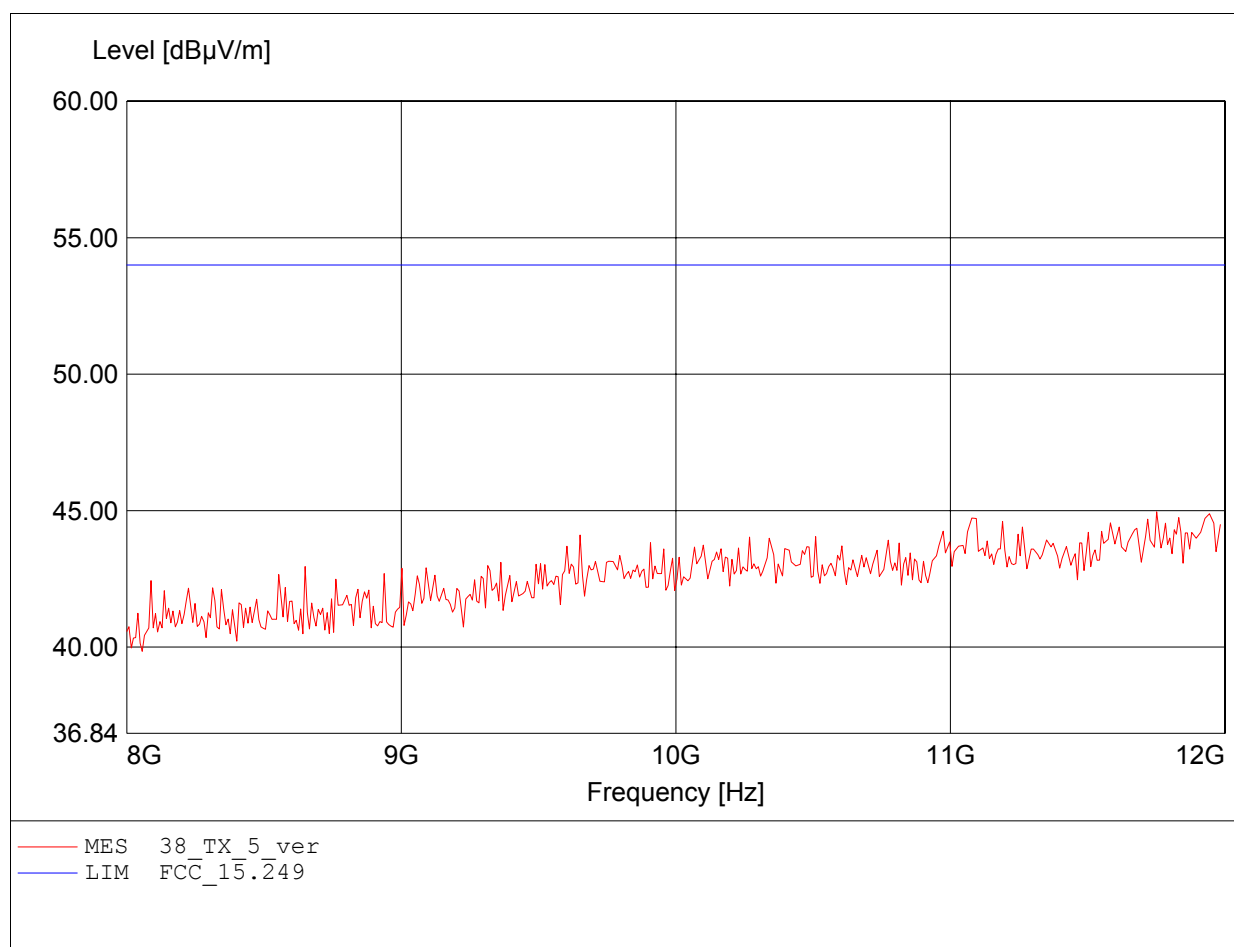
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 4.874GHz, Emax: 43.80dBµV/m, RBW: 1MHz



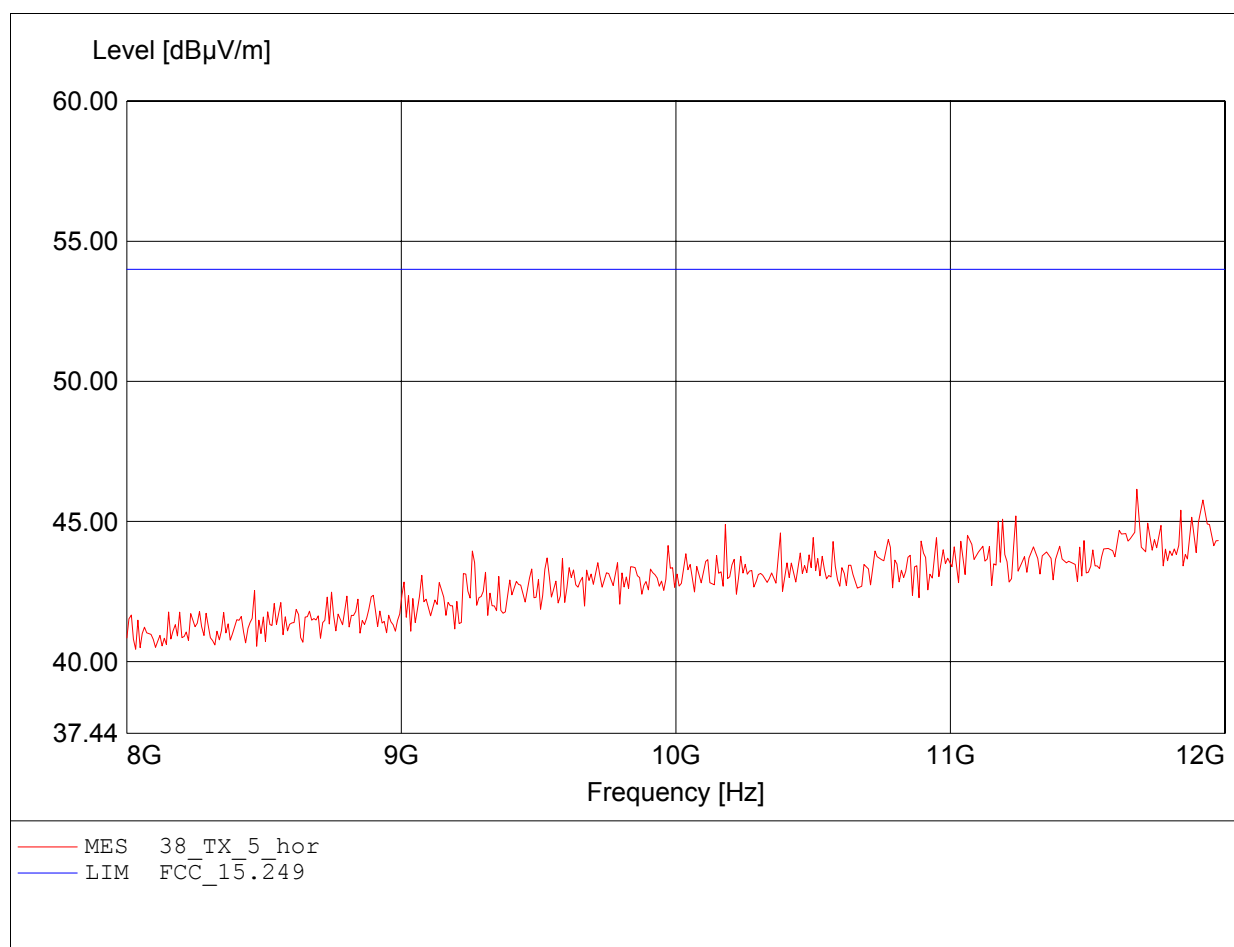
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 11.752GHz, Emax: 44.96dBµV/m, RBW: 1MHz



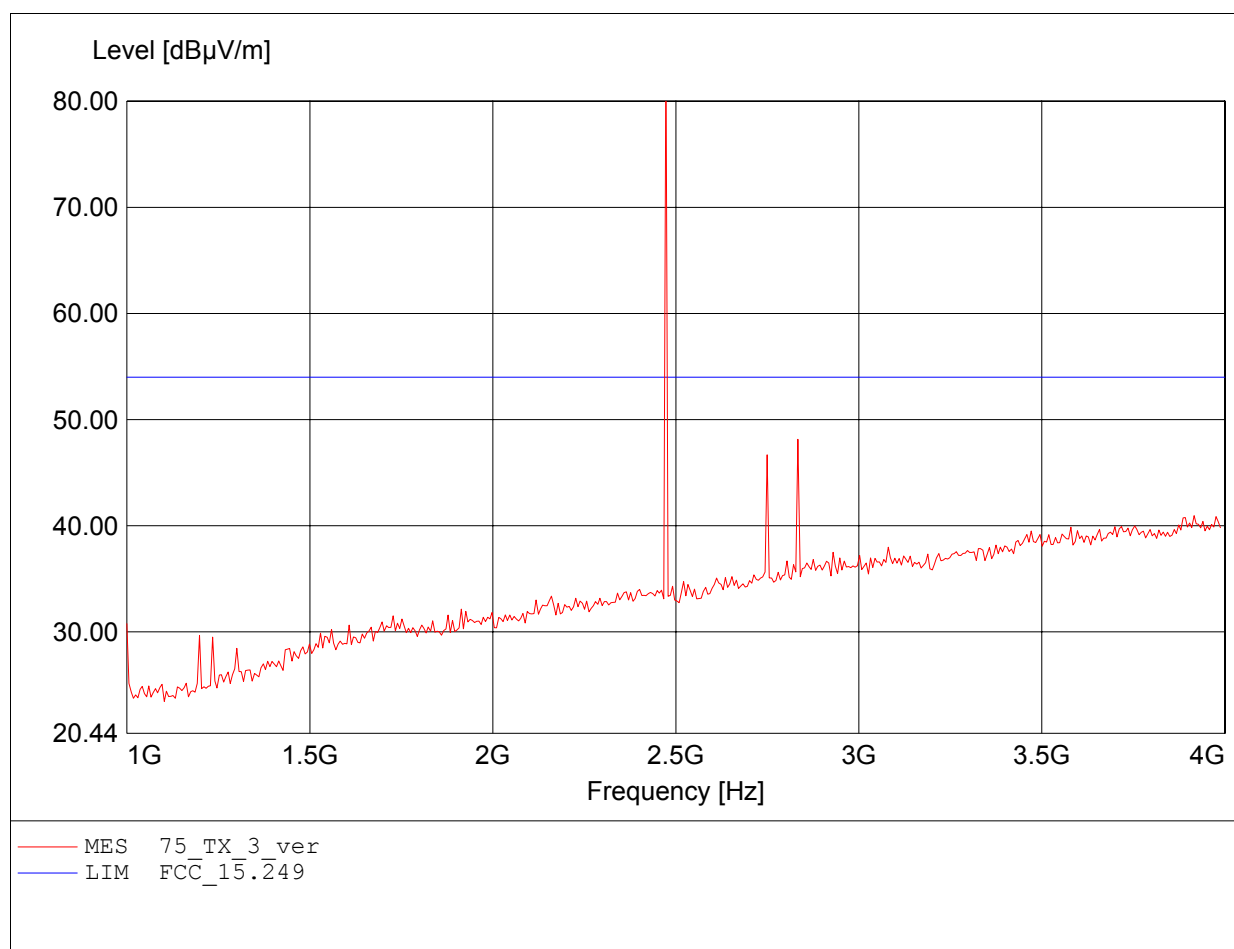
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 38
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 11.679GHz, Emax: 46.15dBµV/m, RBW: 1MHz



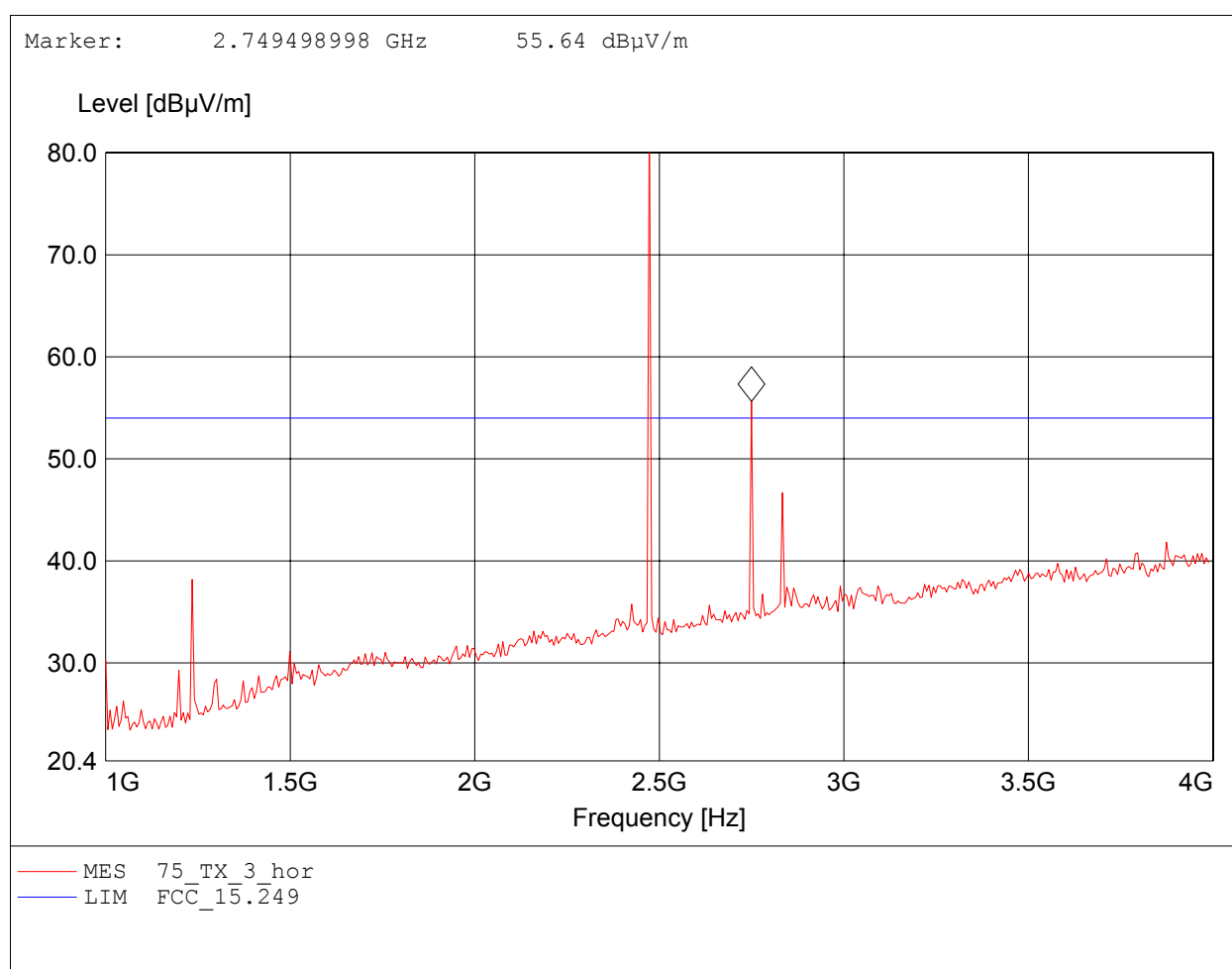
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, amplif., PK
Comment 2: Freq: 2.473GHz, Emax: 85.25dBµV/m, RBW: 1MHz



Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

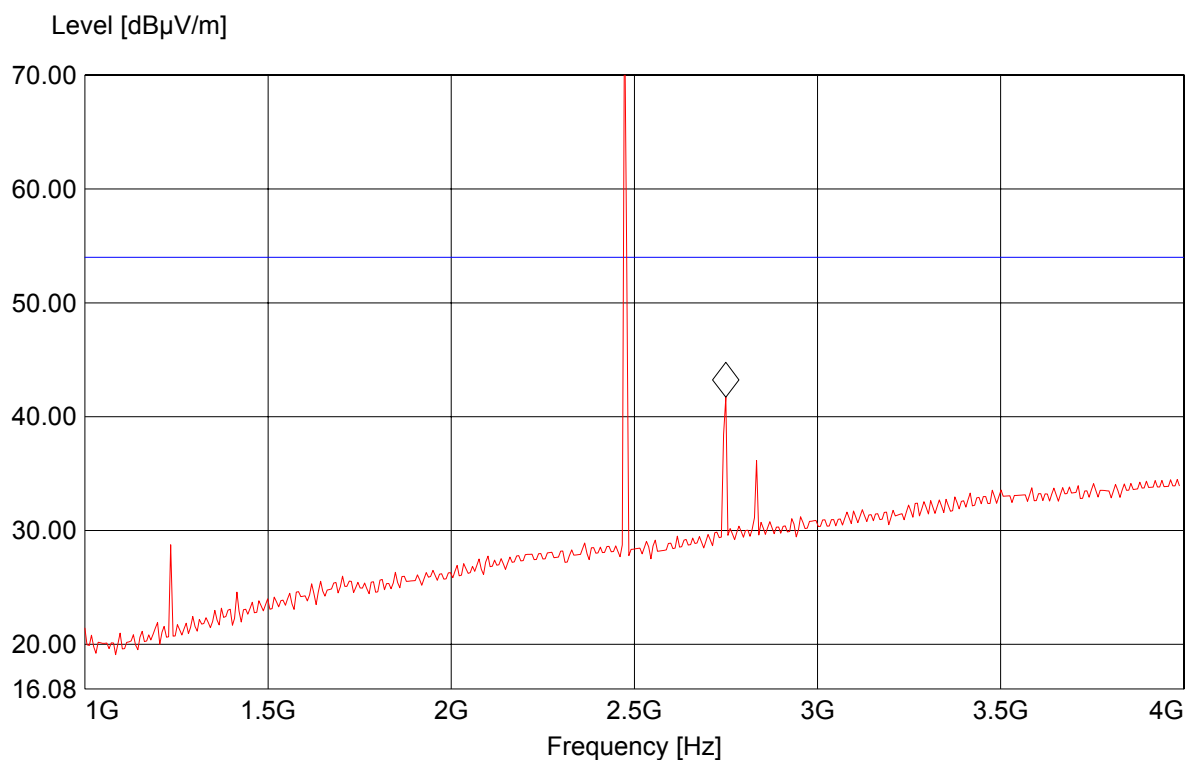
Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, amplif., PK
Comment 2: Freq: 2.473GHz, Emax: 86.74dBµV/m, RBW: 1MHz



Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., AV
Comment 2: Freq: 2.473GHz, Emax: 75.35dBµV/m, RBW: 1MHz

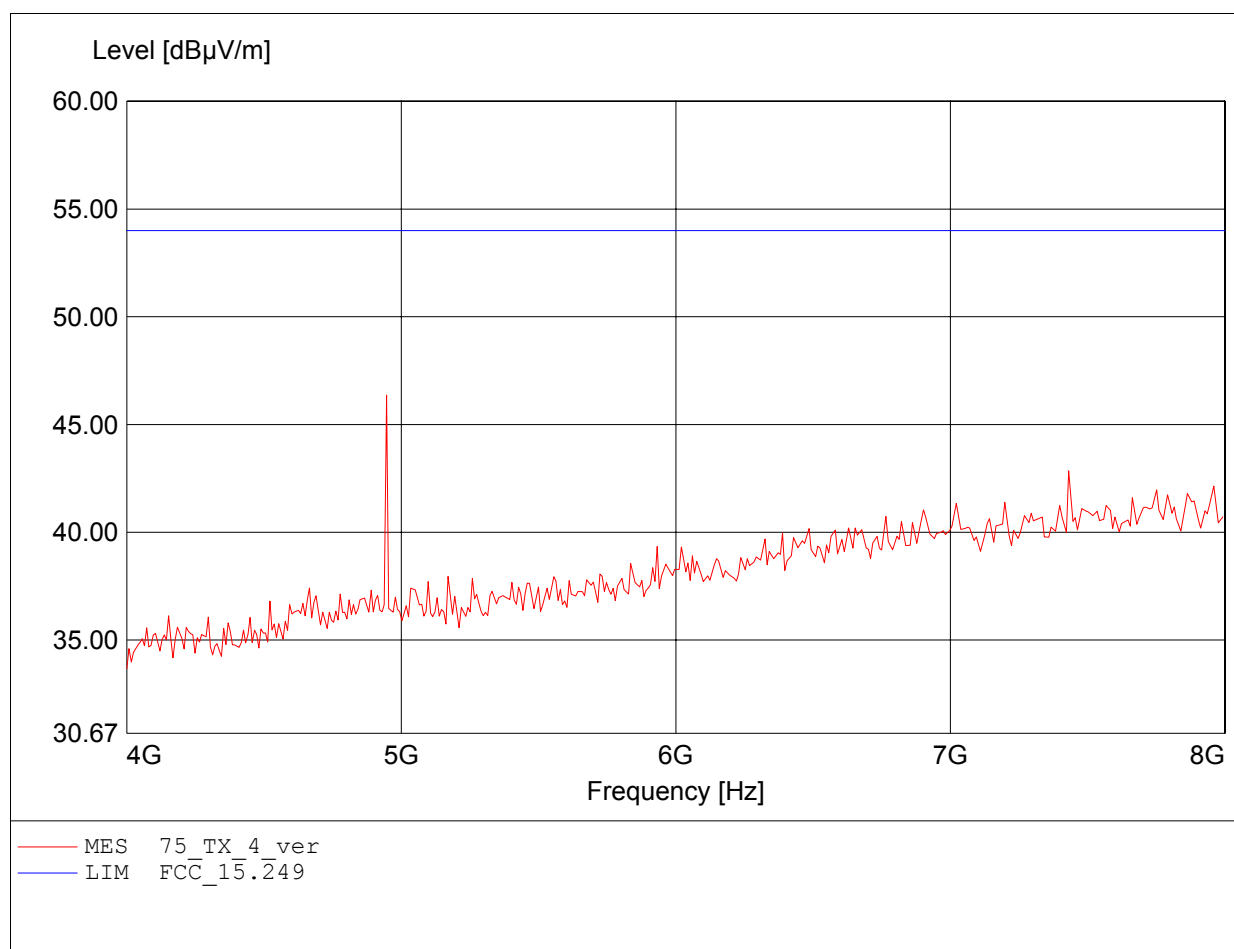
Marker: 2.749498998 GHz 41.7 dBµV/m



MES 75_TX_11_hor
LIM FCC_15.249

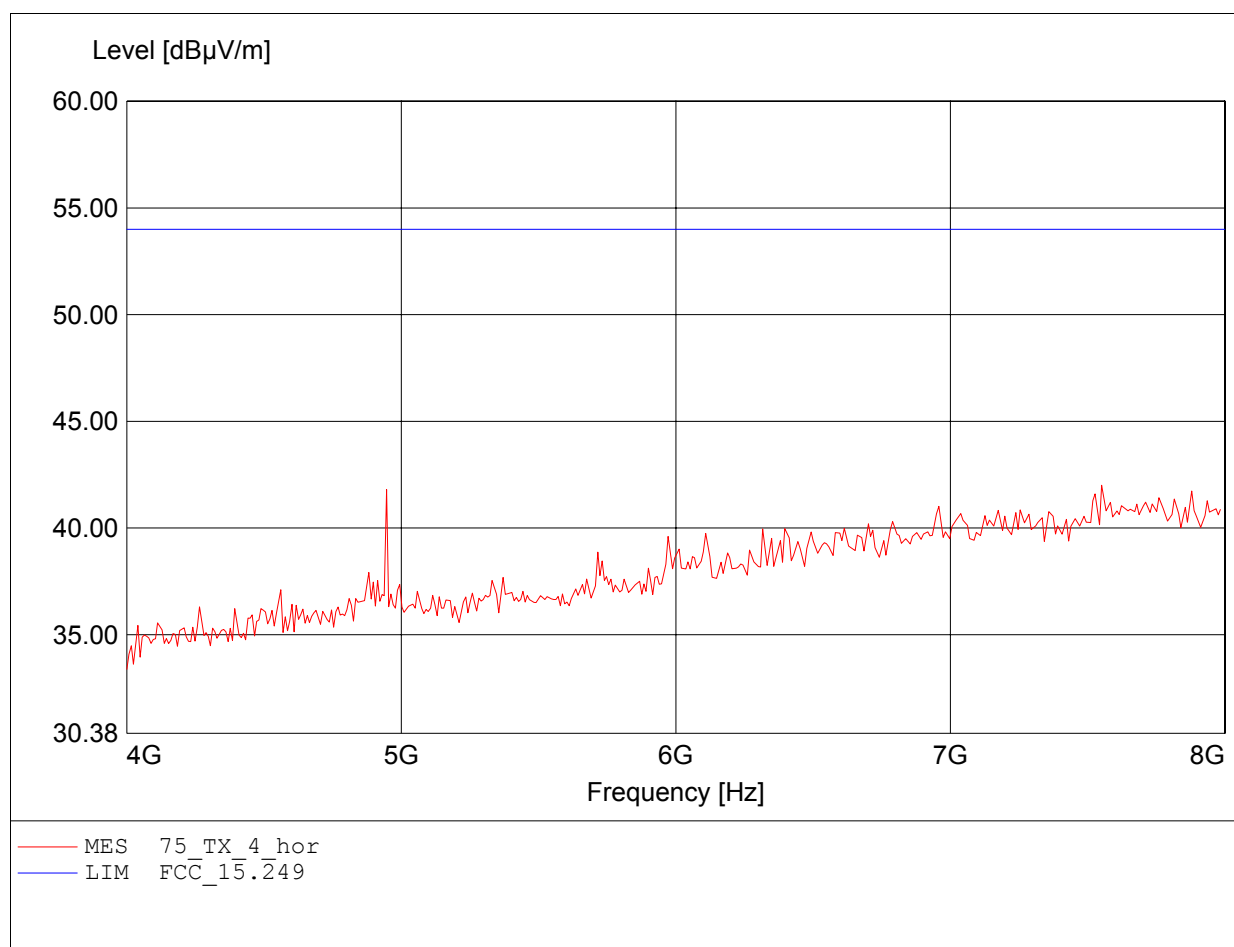
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 4.946GHz, Emax: 46.36dBµV/m, RBW: 1MHz



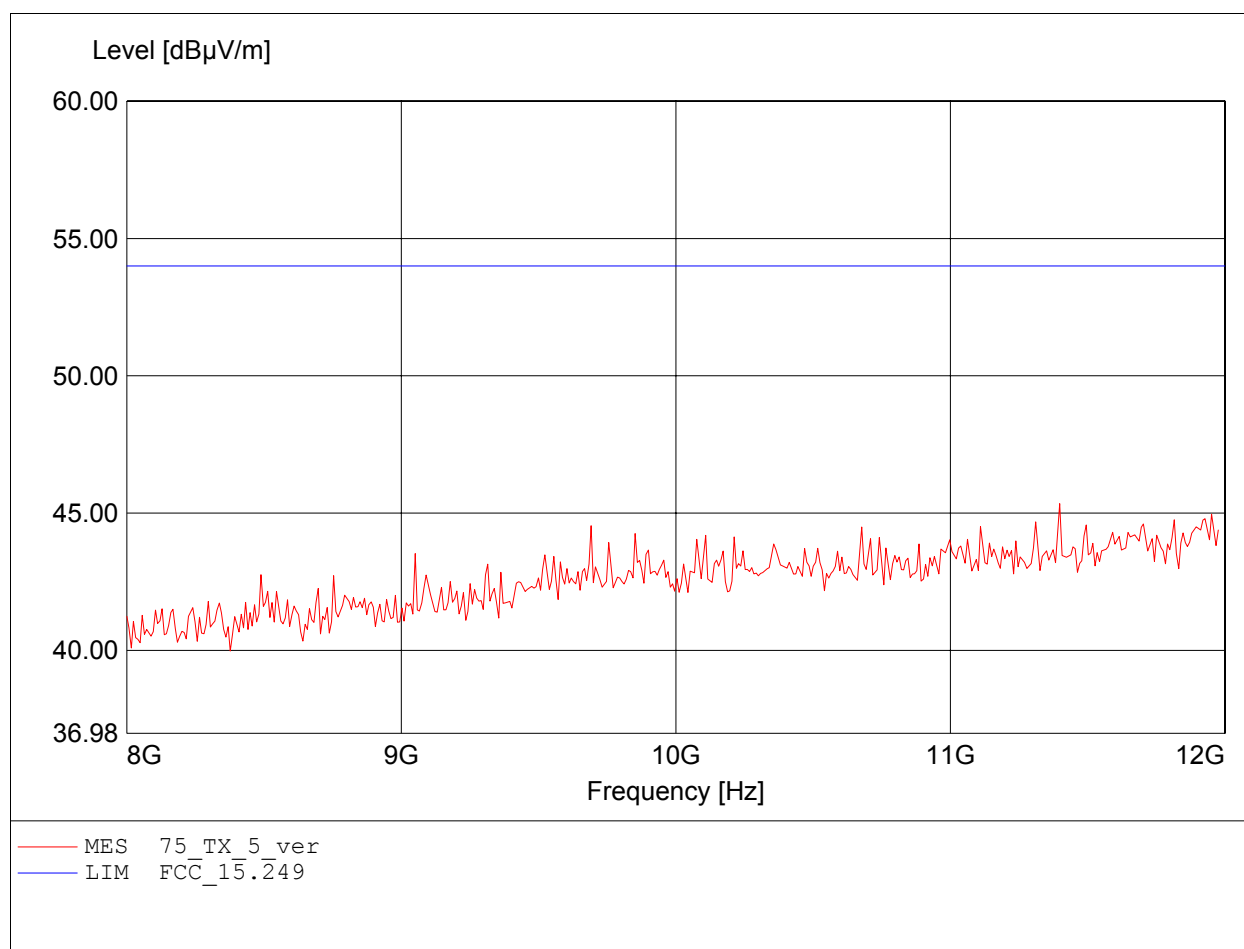
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 7.551GHz, Emax: 42.00dBµV/m, RBW: 1MHz



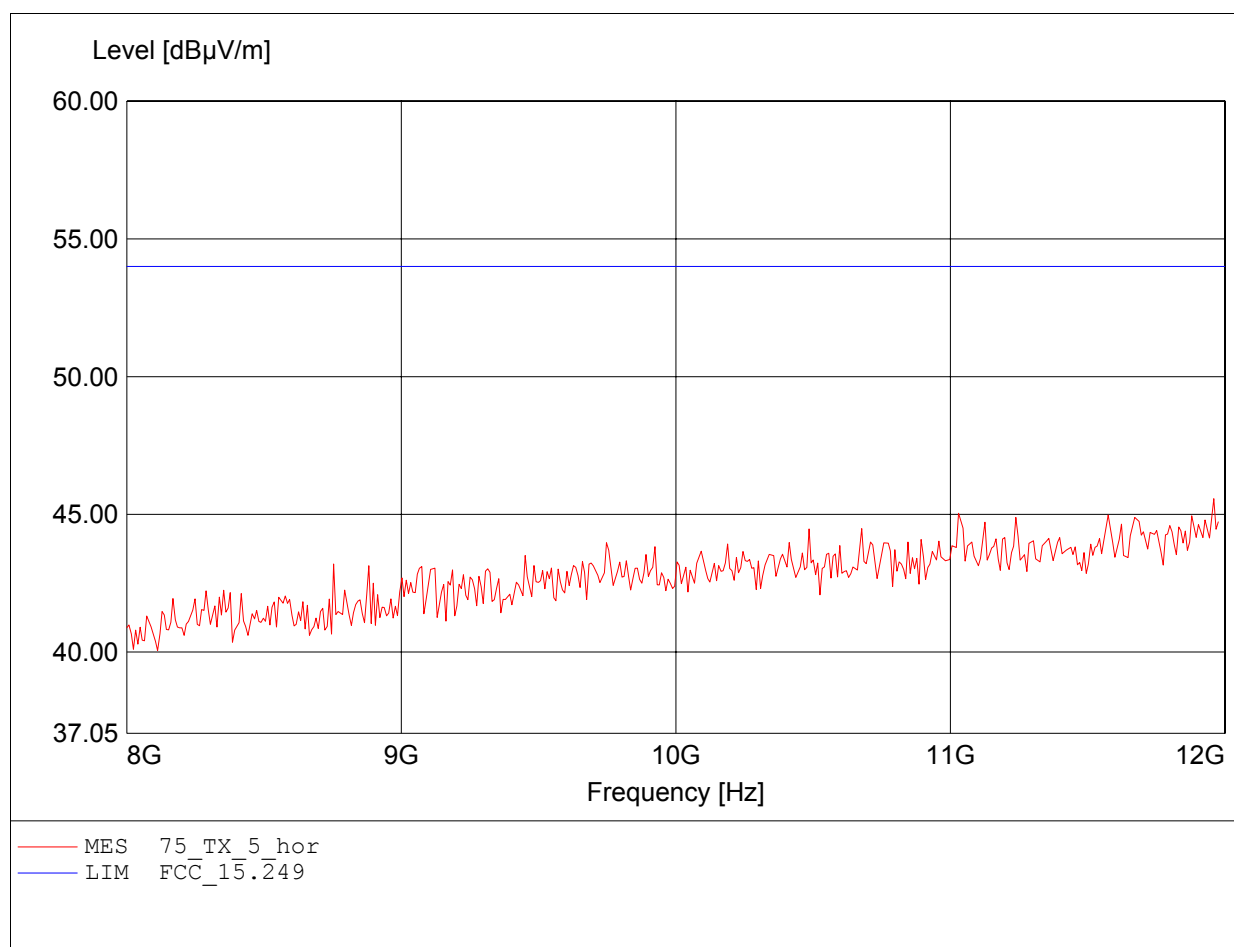
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 11.399GHz, Emax: 45.34dBµV/m, RBW: 1MHz



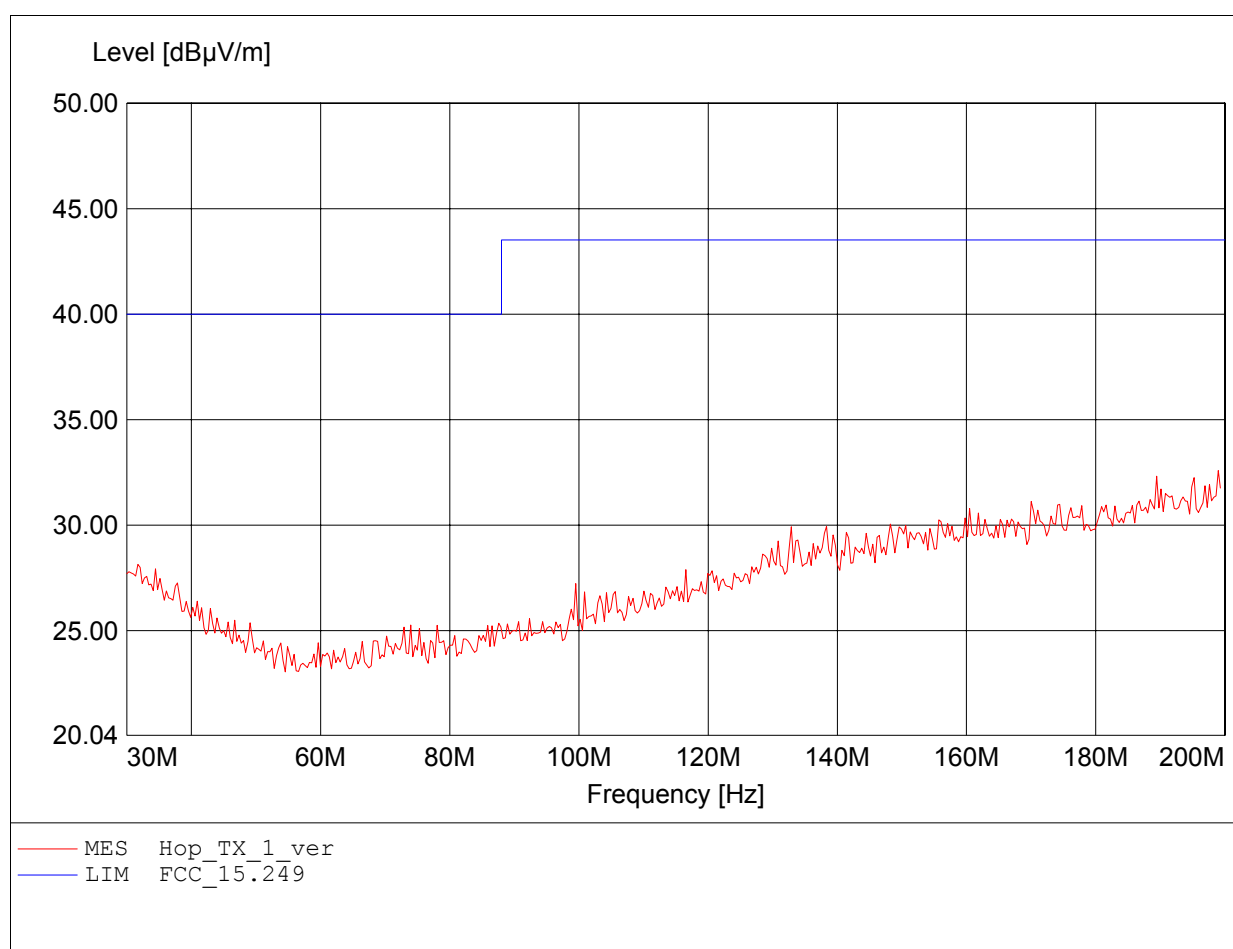
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Testmode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: 75
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP., PK
Comment 2: Freq: 11.960GHz, Emax: 45.57dBµV/m, RBW: 1MHz



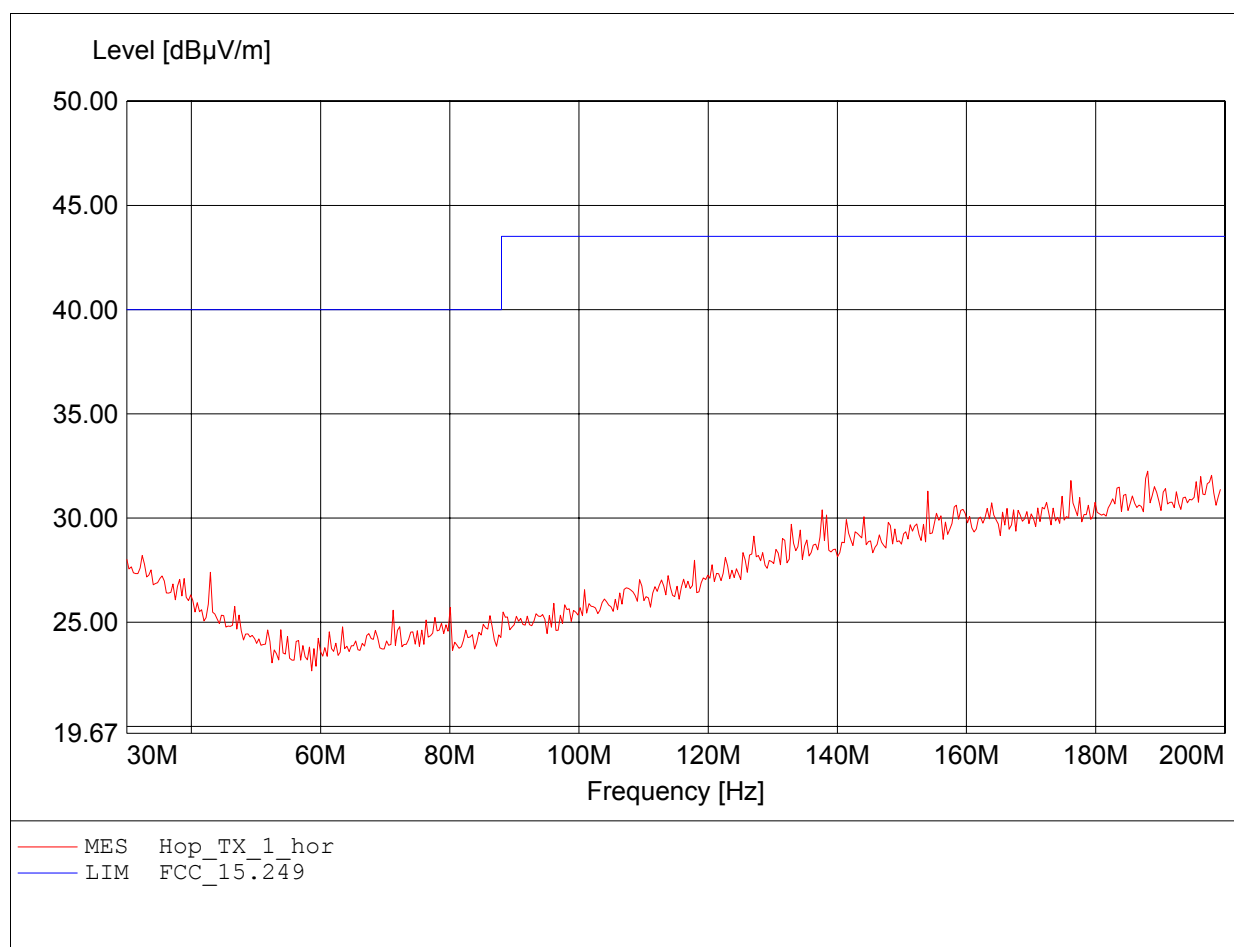
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Hopping Mode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: Hop
Comment 1: Dist.: 3m, Ant.: HK116
Comment 2: Freq: 198.978MHz, Emax: 32.59dBµV/m, RBW: 100kHz



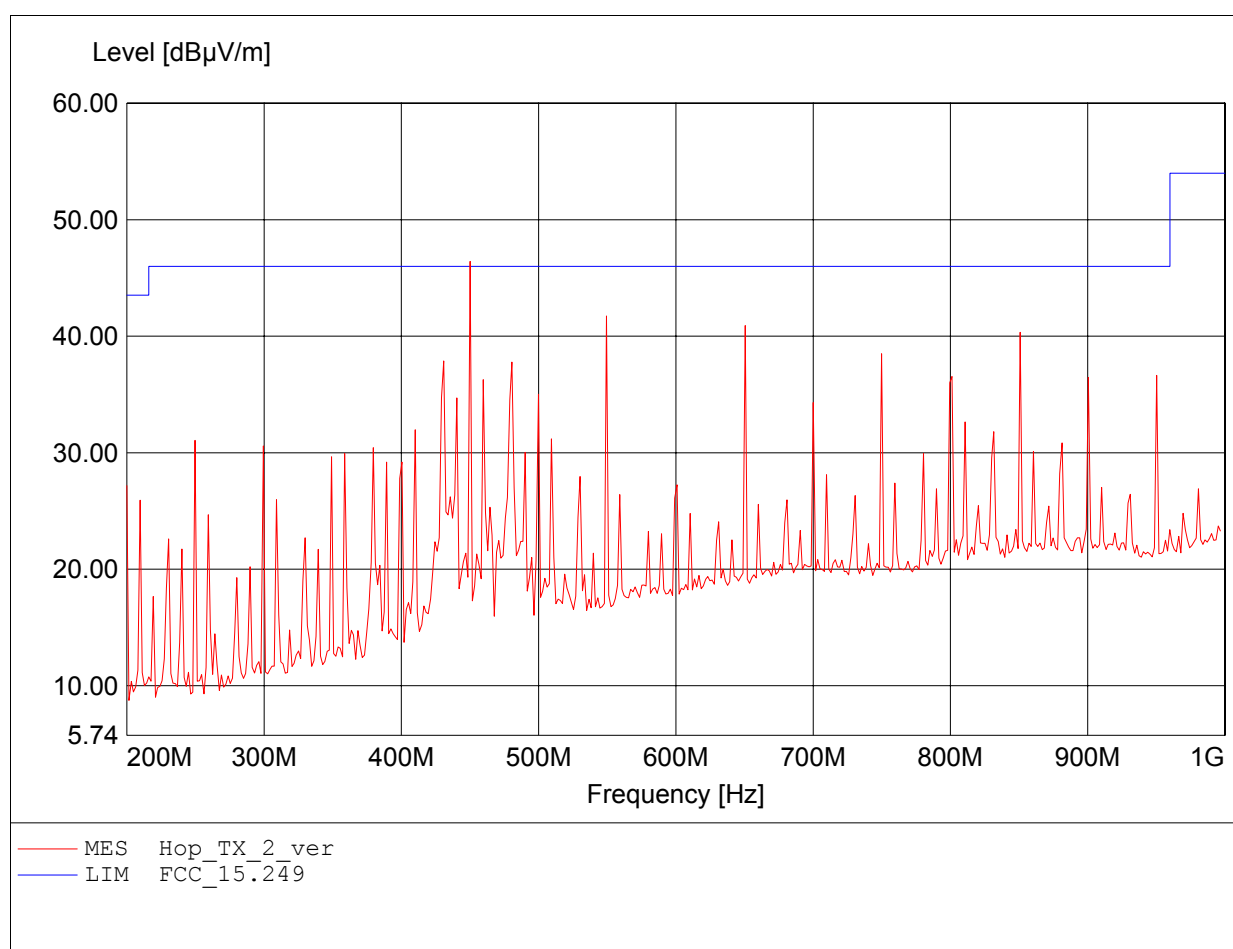
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Hopping Mode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: Hop
Comment 1: Dist.: 3m, Ant.: HK116
Comment 2: Freq: 188.076MHz, Emax: 32.25dBµV/m, RBW: 100kHz



Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Hopping Mode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: Hop
Comment 1: Dist.: 3m, Ant.: HL223, amplif., PK
Comment 2: Freq: 450.100MHz, Emax: 46.43dBµV/m, RBW: 100kHz



Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

Approval Holder: Gerhard Schubert GmbH
EUT / Model: SR-radio module / HG 76360
Hopping Mode Module 1 and 2 0dBm
Test Site / Operator: Eurofins Product Service GmbH / Mr. Jahn
Test Conditions 1: Tnom: 24°C / Vnom.: 5.0 V DC
Test Conditions 2: Freq. / CH: Hop
Comment 1: Dist.: 3m, Ant.: HL223, amplif., PK
Comment 2: Freq: 749.900MHz, Emax: 47.02dBµV/m, RBW: 100kHz

