

FCC Test Report

Test report no.: EMC 452 FCC15.247-407 2003

FCC Part 15.247 for DSSS systems / CANADA RSS-210 for DSSS systems FCC Part 15.407 for UNII Devices / CANADA RSS-210 Issue 5 for LELEAN Devices

EUT: WLAN Model: BCM94309MP HOST: Dell Laptop Model: PPT

FCC ID: QDS-BRCM1007



Accredited according to ISO/IEC 17025





FCC listed # 101450

IC recognized # 3925

CETECOM Inc.

411 Dixon Landing Road • Milpitas, CA 95035 • U.S.A.



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- **1** General information
- 1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

TEST REPORT PREPARED BY: EMC Engineer: Harpreet Sidhu

1.2 Testing laboratory

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E-mail: lothar.schmidt@cetecomusa.com

Internet: www.cetecom.com



1.3 Details of applicant

Name : Broadcom corporation
Street : 190 Mathilda Place
City / Zip Code : Sunnyvale, CA 94086

Country : USA

Contact : Chris McGough
Telephone : 408-922-5810
Tele-fax : 408-543-3399

e-mail : <u>cmcgough@broadcom.com</u>

1.4 Application details

Date of receipt of application : 2003-04-01 Date of receipt test item : 2003-04-03 Date of test : 2003-04-03

1.5 Test item

Manufacturer : Applicant Model No.(EUT) : BCM94309MP

Model No.(Host) : Dell Laptop PC Model No: PPT

Description : 802.11a & 54g wireless LAN mini PCI card in Dell Laptop

FCC ID : QDS-BRCM1007

Additional information

Frequency : 2412MHz – 2462MHz for 54g

5180MHz - 5320MHz for 802.11a

Type of modulation : DSSS / OFDM (orthogonal frequency division multiplexing)

Number of channels : 11 for 54g / 8 for 802.11a

Power supply : 3.3 VDC from Host

Antenna : Dual band (2.45GHz & 5.0GHz) antenna by Wistron NeWeb

Output power : 19.8dBm (95.50mW) conducted peak power for 54g

21.8dBm (151.35mW) conducted peak power for 802.11a

1.6 Test standards: FCC Part 15 §15.247 & 15.407 / CANADA RSS-210 Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.



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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		
Final Verdict: (only "passed" if all single measurements are "passed")	Passed	

Technical responsibility for area of testing:

2003-04-16	EMC & Radio	Lothar Schmidt (Manager)	ldunids
Date	Section	Name	Signature

Responsible for test report and project leader:

2003-04-16	EMC & Radio	Harpreet Sidhu (EMC Engineer)	\
Date	Section	Name	Signature



2.2 Test report

TEST REPORT

Test report no.: EMC_452_FCC15.247-407_2003

FCC ID: QDS-BRCM1007



TEST REPORT REFERENCE

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MAXIMUM PEAK OUTPUT POWER

§ 15.247 (b) (1)

(Conducted)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequen	cy (MHz)	2412	2437	2462
T _{nom} (23)°C	V _{nom} (3.3)VDC	19.4	19.8	19.5
Measurement uncertainty		±0.5dBm		

RBW / VBW: 10 MHz

LIMIT

SUBCLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt



BAND EDGE COMPLIANCE

§15.247 (c)

Low frequency section (Average measurement)

Operating condition : Tx at 2412MHz

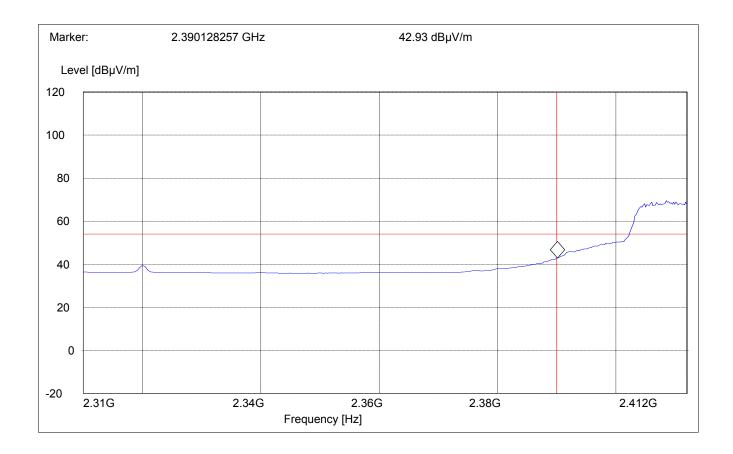
SWEEP TABLE : "FCC15.247 LBE AVG"

 $Limit\ Line \qquad \qquad : \qquad \qquad 54dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

Low frequency section (Peak measurement)

Operating condition : Tx at 2412MHz

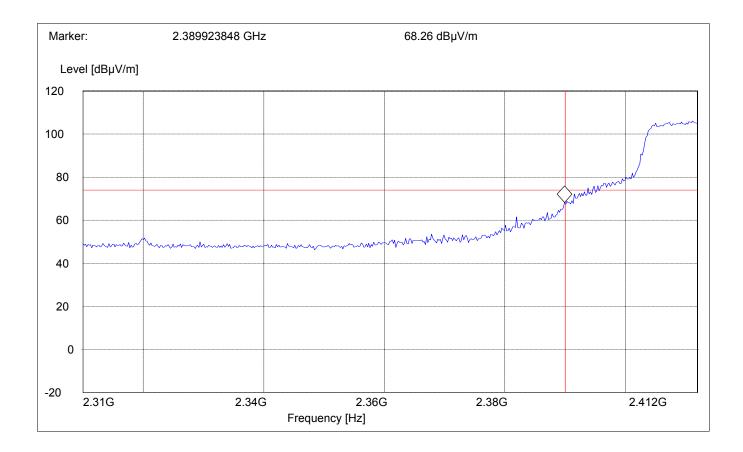
SWEEP TABLE : "FCC15.247 LBE_Pk"

Limit Line : $74dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

High frequency section (Average measurement)

Operating condition : Tx at 2462MHz

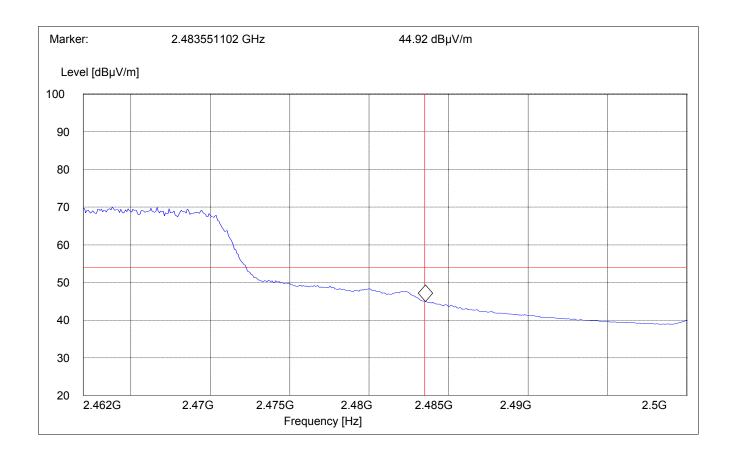
SWEEP TABLE : "FCC15.247 HBE_AVG"

Limit Line : $54dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.462 GHz 2.5 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

High frequency section (Peak measurement)

Operating condition : Tx at 2462MHz

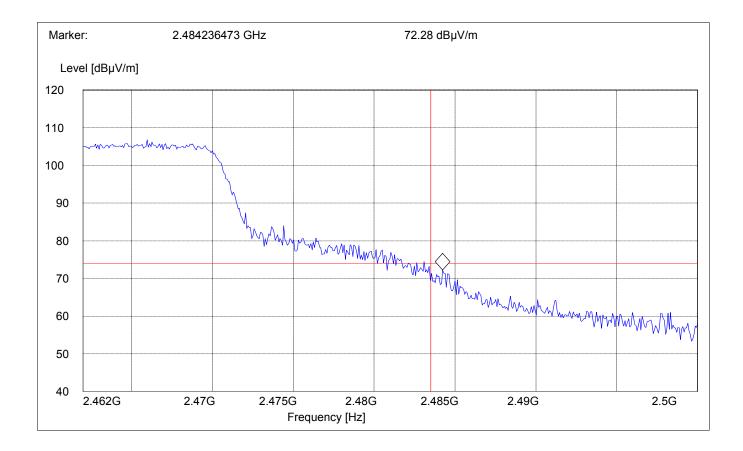
SWEEP TABLE : "FCC15.247 HBE_PK"

Limit Line : $74dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.462 GHz 2.5 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





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EMISSION LIMITATIONS Transmitter (Radiated)

§ 15.247 (c) (1)

LIMITS

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions that fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

NOTE:

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. All measurements are done in peak mode unless specified with plots.

Results for the radiated measurements below 30MHz according § 15.33

Frequency	Measured values	Remarks
9KHz – 30MHz	No emissions found, caused by the EUT	This is valid for all the tested channels



EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Lowest Channel (2412MHz): 30MHz - 1GHz

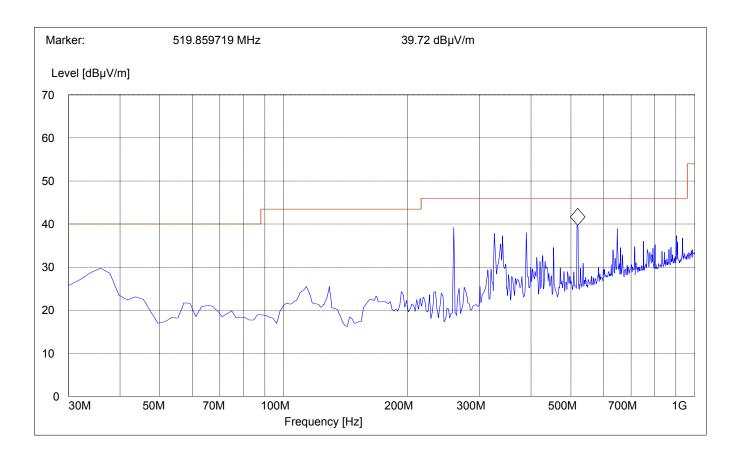
Note: This plot is valid for low, mid & high channels (worst-case plot)

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Lowest Channel (2412GHz): 1GHz - 3GHz

(Average measurement)

NOTE: The peak above the limit is the carrier frequency.

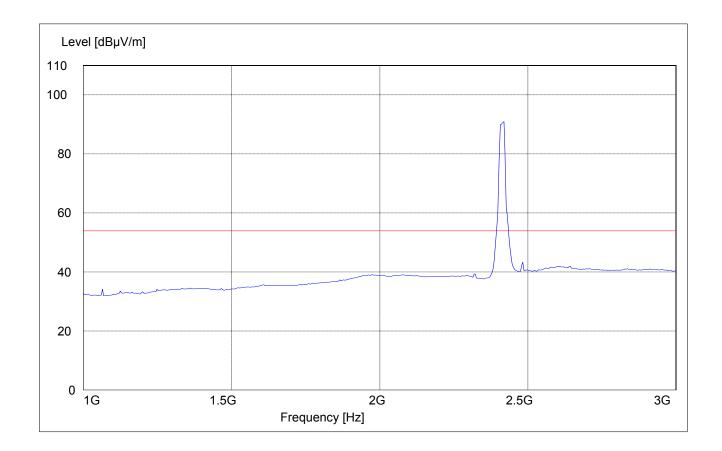
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) Lowest Channel (2412MHz): 3CHz 18CHz

§ 15.247 (c) (1)

Lowest Channel(2412MHz): 3GHz – 18GHz

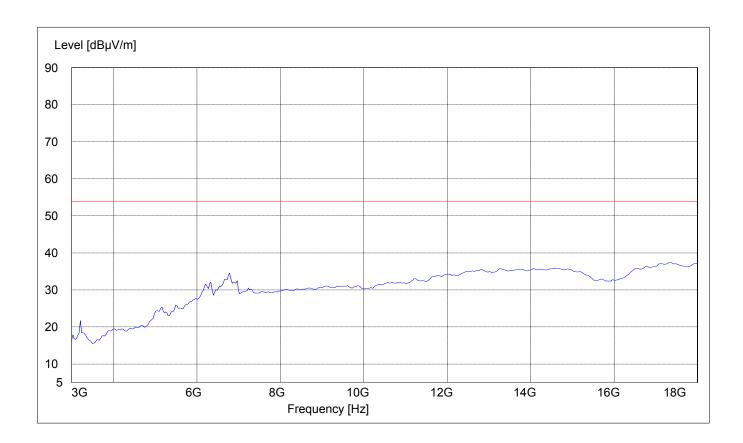
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-8 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Middle Channel (2437MHz): 1GHz – 3GHz

(Average measurement)

NOTE: The peak above the limit is the carrier frequency.

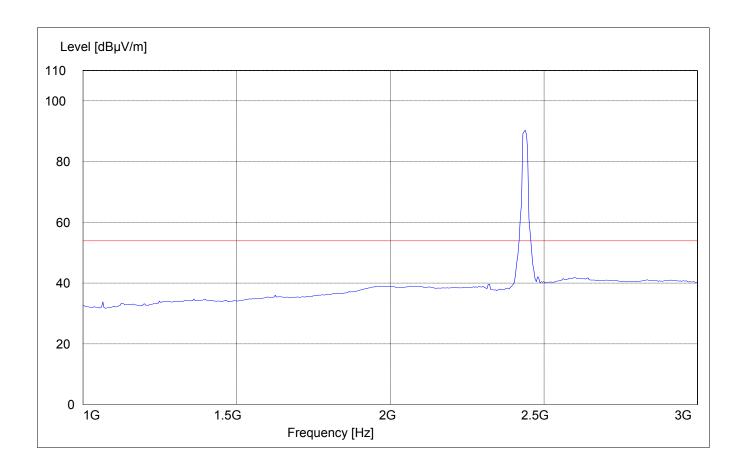
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Middle Channel (2437MHz): 3GHz – 18GHz

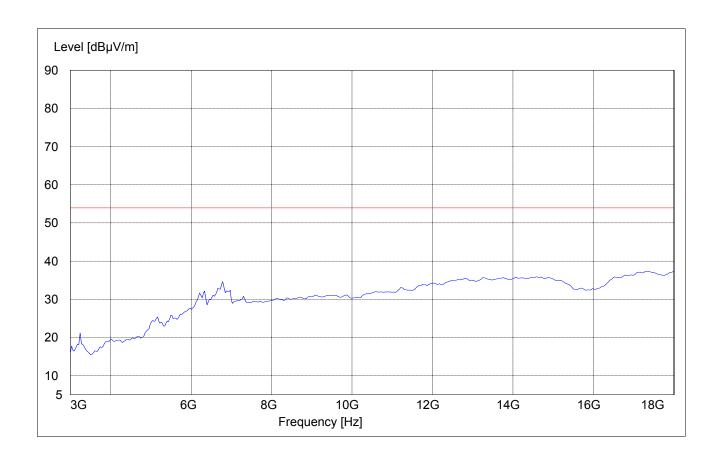
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-8 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Highest Channel (2462MHz): 1GHz – 3GHz

(Average measurement)

NOTE: The peak above the limit is the carrier frequency.

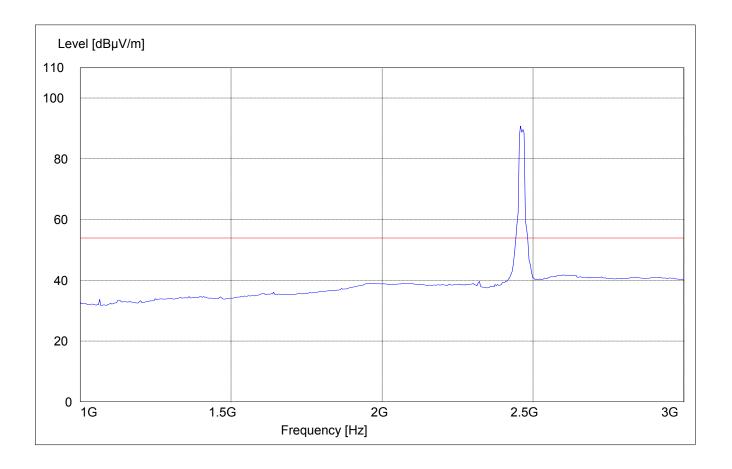
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Highest Channel (2462MHz): 3GHz – 18GHz

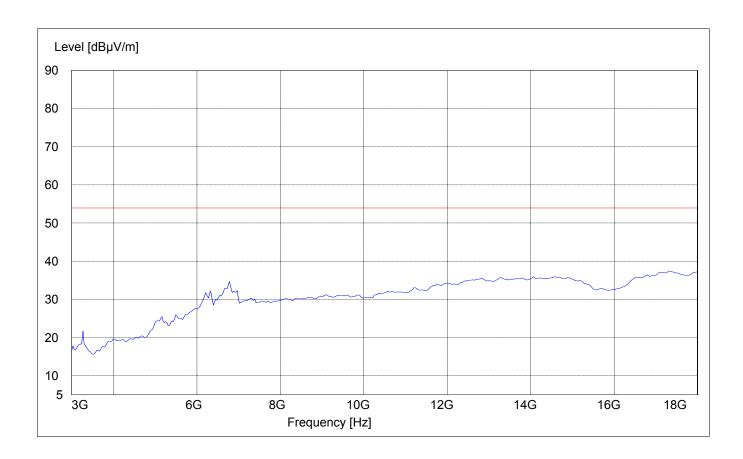
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-8 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

18GHz - 25GHz

Note: This plot is valid for low, mid & high channels (worst-case plot)

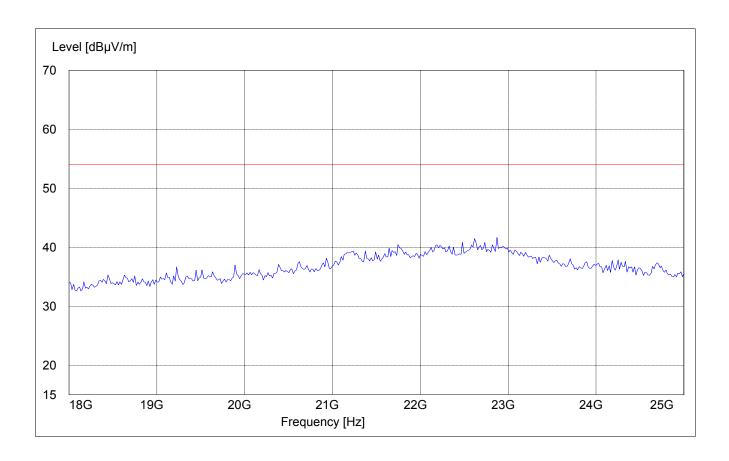
SWEEP TABLE: "BT Spuri hi 18-25G"

Short Description: Bluetooth Spurious 18-25GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18 GHz 25 GHz MaxPeak Coupled 1 MHz #141 horn (dBi)





CONDUCTED EMISSIONS Measured with AC/DC power adapter

§ 15.107/207

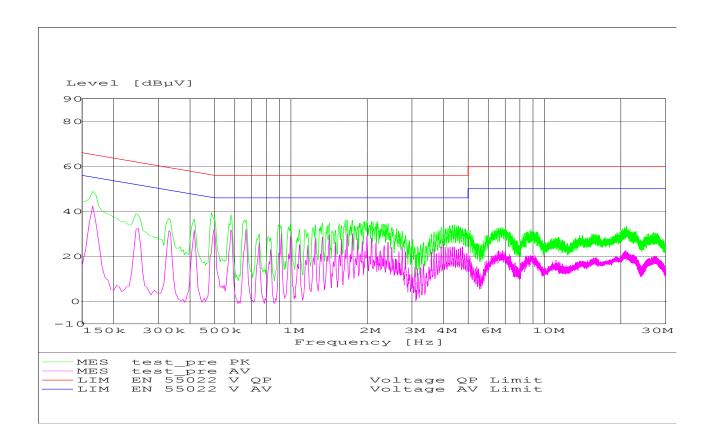
Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)

Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)		
	Quasi-Peak	Average	
0.15 - 0.5	66 to 56*	56 to 46*	
0.5 - 5	56	46	
5 – 30	60	50	
* Decreases with logarithm of the frequency			

ANALYZER SETTINGS: RBW = 10KHz

VBW = 10KHz





RECEIVER SPURIOUS RADIATION

§ 15.209

Limits

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

NOTE:

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. All measurements are done in peak mode unless specified with plots.



RECEIVER SPURIOUS RADIATION

§ 15.209

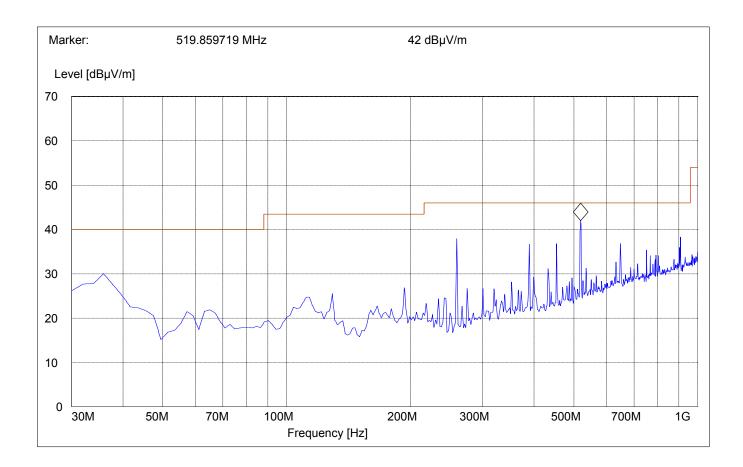
30MHz – 1GHz

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





RECEIVER SPURIOUS RADIATION

§ 15.209

1GHz – 3GHz

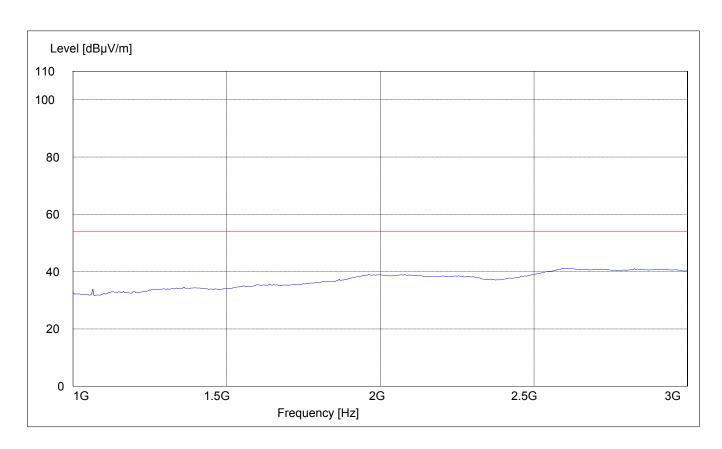
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





§ 15.209

RECEIVER SPURIOUS RADIATION

3GHz – 18GHz

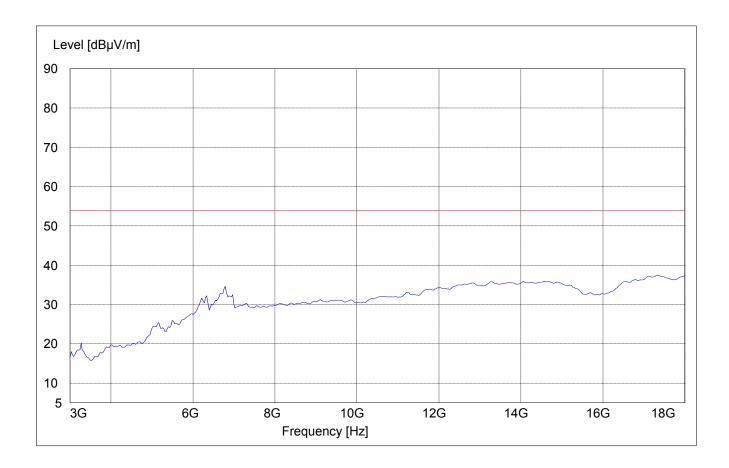
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-18 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





RECEIVER SPURIOUS RADIATION

§ 15.209

18GHz - 25GHz

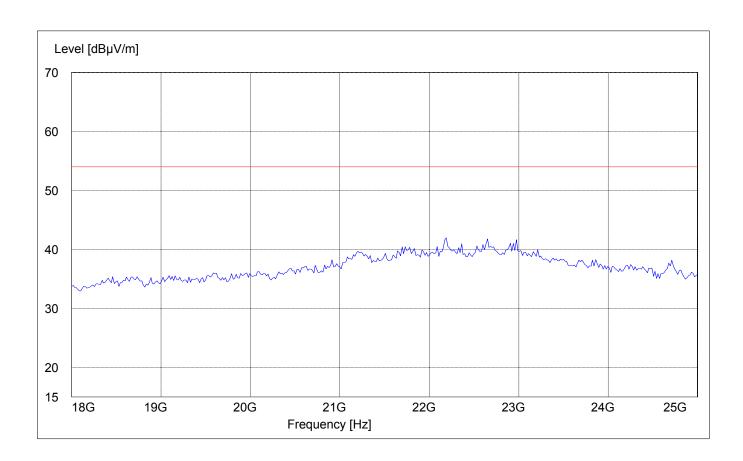
SWEEP TABLE: "BT Spuri hi 18-25G"

Short Description: Bluetooth Spurious 18-25GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18.0 GHz 25 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





MAXIMUM PEAK OUTPUT POWER

§ 15.407(a)

(Conducted)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		5180	5260	5320
T _{nom} (23)°C	V _{nom} (3.3)VDC	15.0	21.5	21.8
FCC 15.407(a) Limit (dBm)		17.0	24.0	24.0
Measurement uncertainty		±0.5dBm		

Note: The minimum VBW required for power measurements using a spectrum analyzer is 1/T, where T is the pulse transmission rate.

Pulse transmission rate: 4.0µs Minimum VBW: 250kHz VBW used: 300kHz



BAND EDGE COMPLIANCE

§15.407

Low frequency section (Average measurement)

Operating condition : Tx at 5180MHz

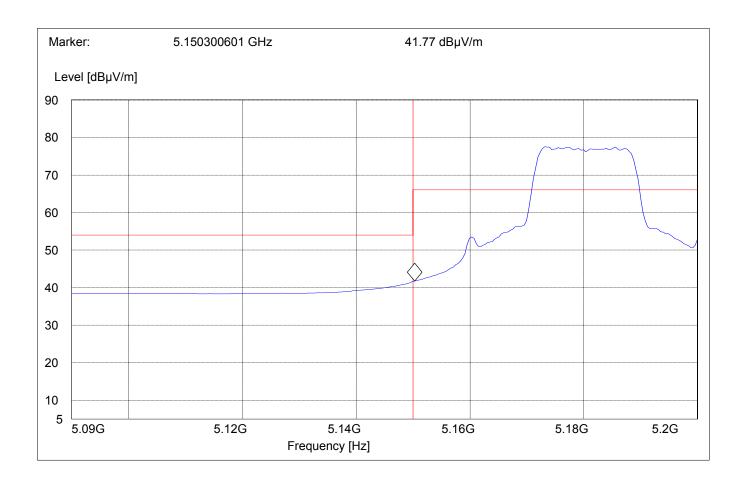
SWEEP TABLE : "FCC15.407LBE_AVG"

Limit Line : $54dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

5.09 GHz 5.2GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.407

Low frequency section (Peak measurement)

Operating condition : Tx at 5180MHz

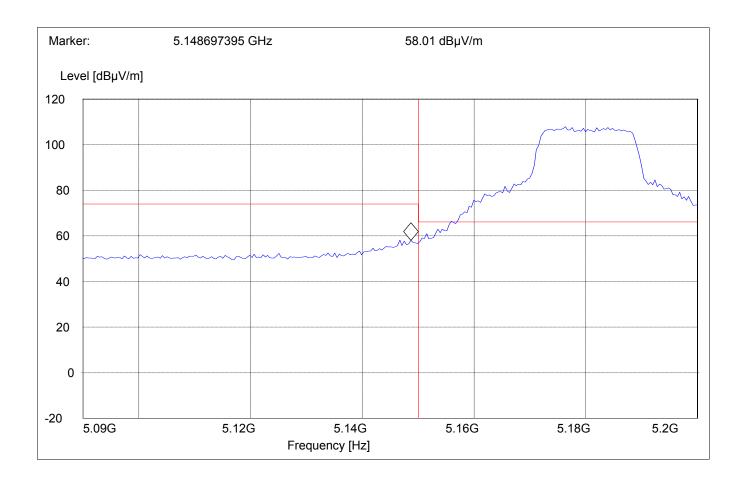
SWEEP TABLE : "FCC15.407LBE AVG"

Limit Line : $74dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

5.09 GHz 5.2GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.407

High frequency section (Average measurement)

Operating condition : Tx at 5320MHz

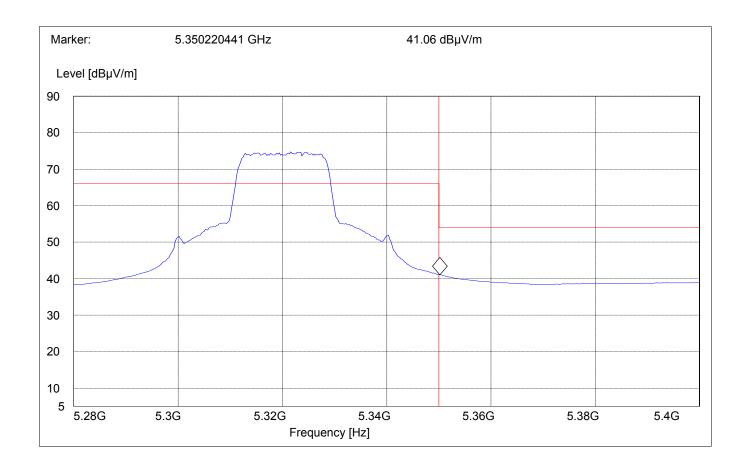
SWEEP TABLE : "FCC15.407LBE AVG"

Limit Line : $54dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

5.28 GHz 5.4GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.407

High frequency section (Peak measurement)

Operating condition : Tx at 5320MHz

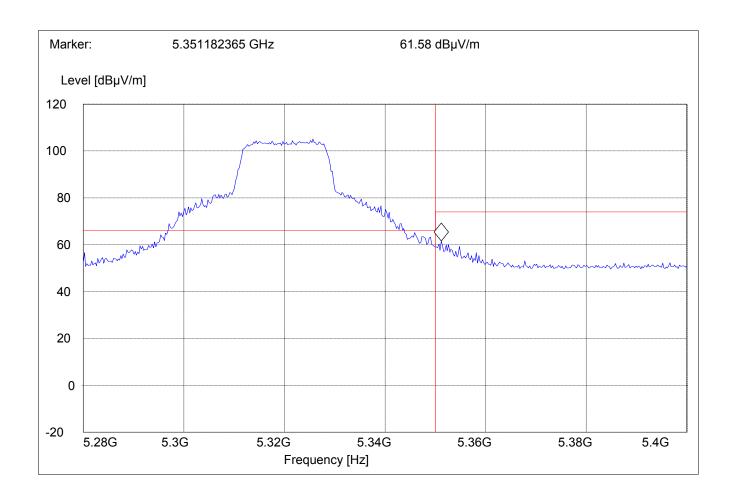
SWEEP TABLE : "FCC15.407LBE AVG"

Limit Line : $74dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

5.28 GHz 5.4GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





EMISSION LIMITATIONS Transmitter (Radiated)

§ 15.407 (b)

Limits

§ 15.209 / § 15.407 (b)

Frequency (MHz)	Field strength (μV/m)	Field strength (dBµV/m)
0.009 - 0.490	2400/F (kHz)	
0.490 - 1.705	24000/F (kHz)	
1.705 - 30.0	30	29.54
30 - 88	100	40.00
88 - 216	150	43.52
216 - 960	200	46.02
above 960*	500	53.97
1000-40000**	2013.8	66.08

^{*)} Limit in restricted bands

NOTE:

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 40 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. All measurements are done in peak mode unless specified with plots.

^{**)} Limit outside restricted bands



EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

Lowest Channel (5180MHz): 30MHz - 1GHz

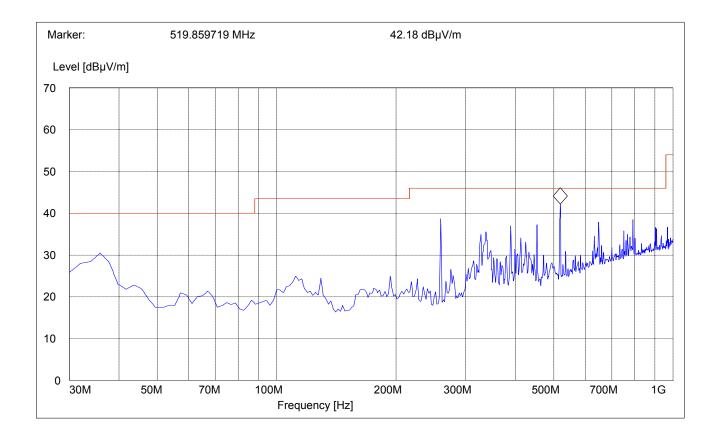
Note: This plot is valid for low, mid & high channels (worst-case plot)

SWEEP TABLE: "FCC 15.407 30-1G"
Short Description: FCC 15.407 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

Lowest Channel (5180MHz): 1GHz – 7GHz

Note: The peak above the limit line is the carrier freq.

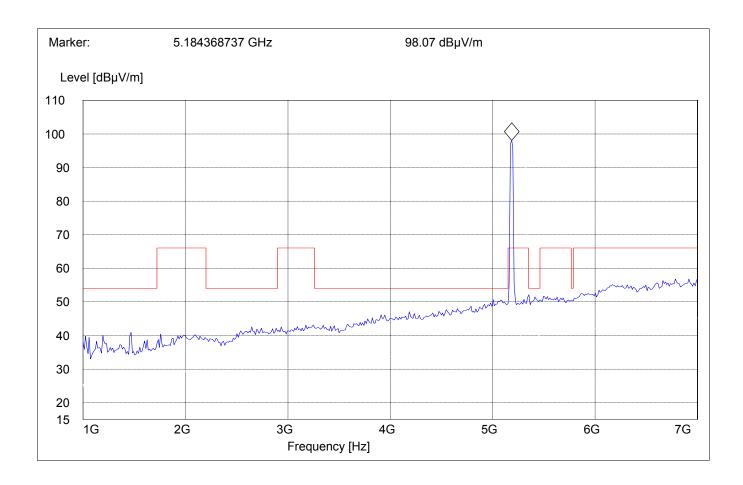
SWEEP TABLE: "FCC 15.407 1-7G"

Short Description: Bluetooth Spurious 1-7 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 7.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

Lowest Channel (5180MHz): 7GHz – 18GHz

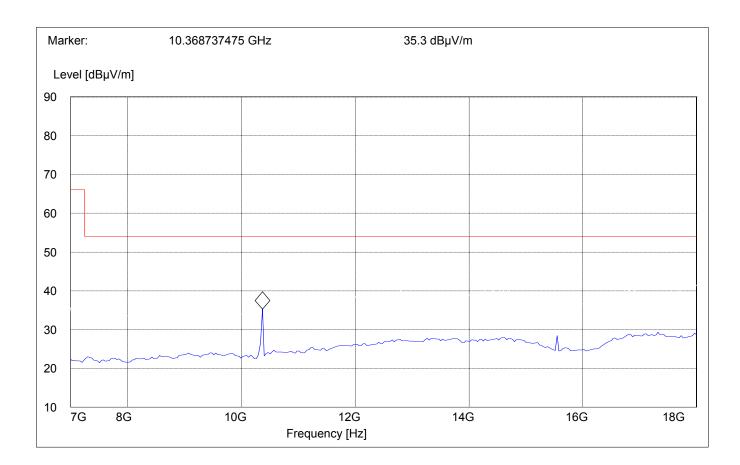
SWEEP TABLE: "FCC 15.407 7-18G"

Short Description: Bluetooth Spurious 7-18 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

7.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #325 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

Middle Channel (5260MHz): 1GHz – 7GHz

Note: The peak above the limit line is the carrier freq.

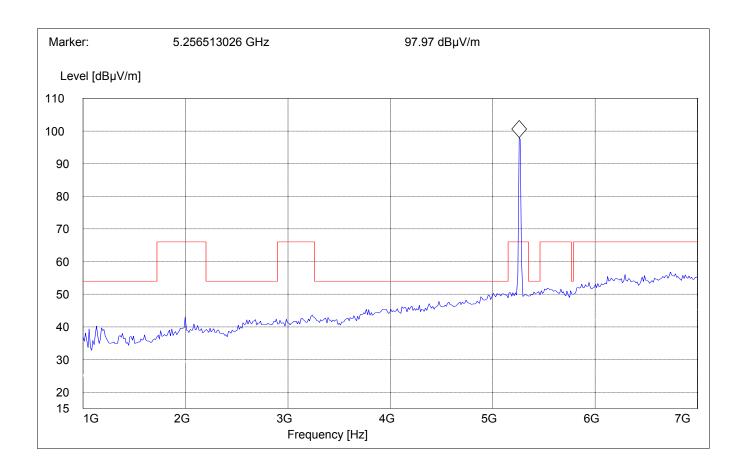
SWEEP TABLE: "FCC 15.407 1-7G"

Short Description: Bluetooth Spurious 1-7 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 7.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

Middle Channel (5260MHz): 7GHz – 18GHz

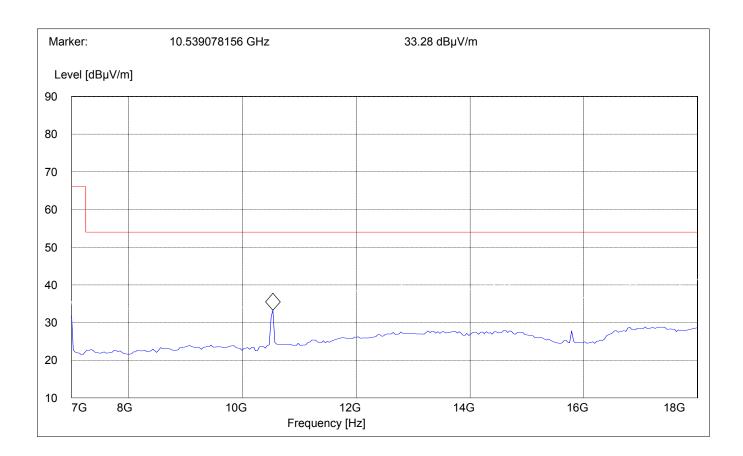
SWEEP TABLE: "FCC 15.407 7-18G"

Short Description: Bluetooth Spurious 7-18 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

7.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #325 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

Highest Channel (5320MHz): 1GHz – 7GHz

Note: The peak above the limit line is the carrier freq.

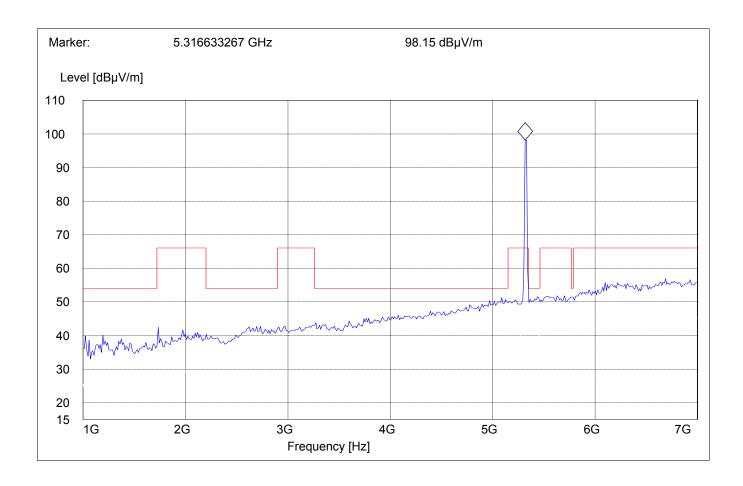
SWEEP TABLE: "FCC 15.407 1-7G"

Short Description: Bluetooth Spurious 1-7 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 7.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

Highest Channel (5320MHz): 7GHz - 18GHz

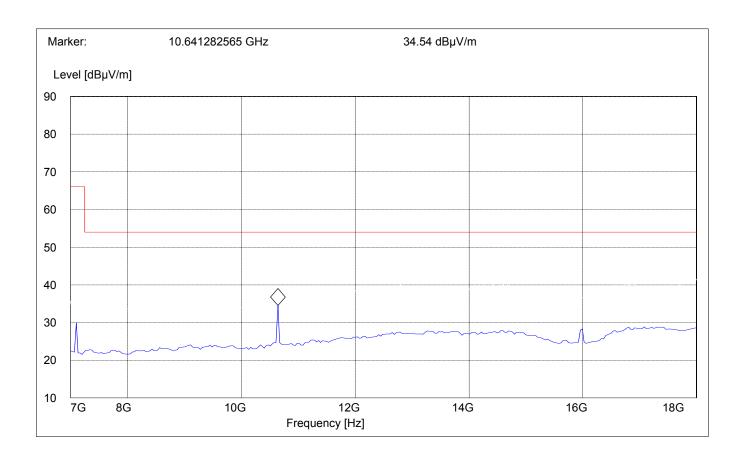
SWEEP TABLE: "FCC 15.407 7-18G"

Short Description: Bluetooth Spurious 7-18 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

7.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #325 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

18GHz - 26.5GHz

Note: This plot is valid for low, mid & high channels (worst-case plot)

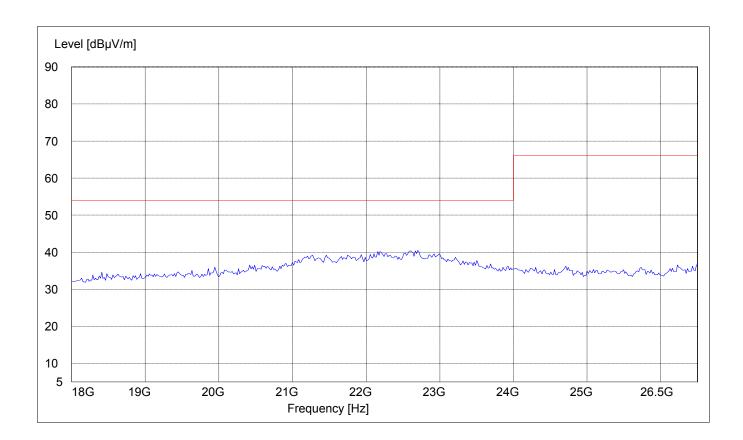
SWEEP TABLE: "FCC 15.407 18-26.5G"

Short Description: Bluetooth Spurious 18-26.5 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18GHz 26.5GHz MaxPeak Coupled 1 MHz #3160-09 horn





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.407 (b)

26.5GHz - 40.0GHz

Note: This plot is valid for low, mid & high channels (worst-case plot)

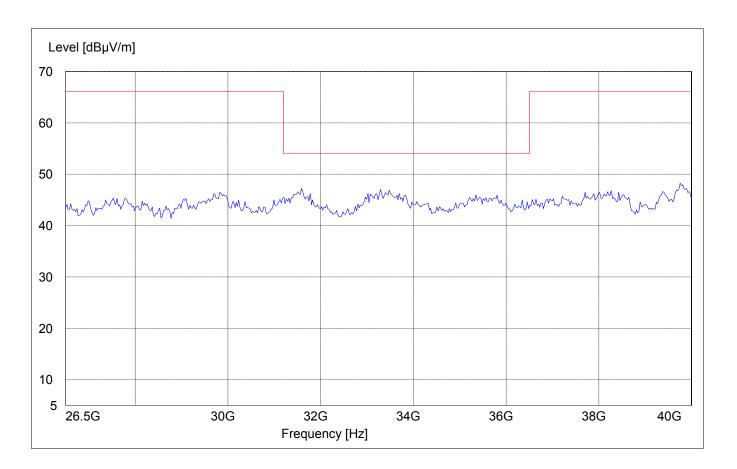
SWEEP TABLE: "FCC 15.407 26.5-40G"

Short Description: Bluetooth Spurious 26.5-40 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

26.5GHz 40.0GHz MaxPeak Coupled 1 MHz #3160-10 horn





RECEIVER SPURIOUS RADIATION

§ 15.209/§ 15.407

Limits § 15.209

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

NOTE:

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. All measurements are done in peak mode unless specified with plots.
- 3. All plots above 1GHz show FCC 15.407 Limits, which are more stringent than FCC 15.209 Limits.



RECEIVER SPURIOUS RADIATION

§ 15.209

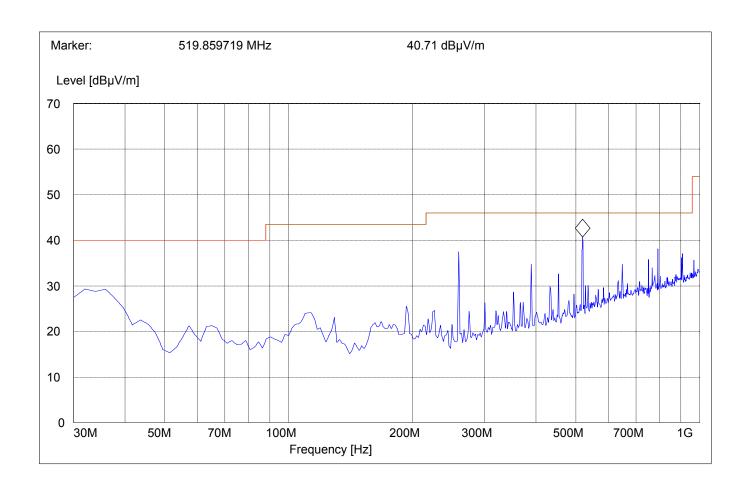
30MHz – 1GHz

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





§ 15.209

RECEIVER SPURIOUS RADIATION

1GHz – 7GHz

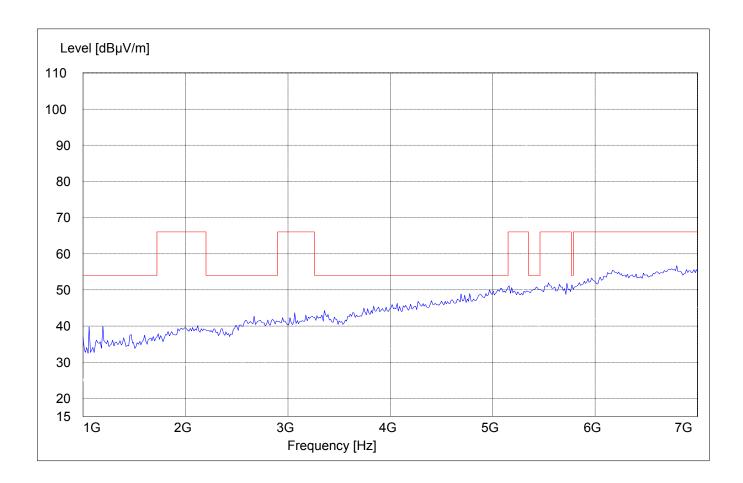
SWEEP TABLE: "BT Spuri hi 1-7G"

Short Description: Bluetooth Spurious 1-7 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 7.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





§ 15.209

RECEIVER SPURIOUS RADIATION

7GHz – 18GHz

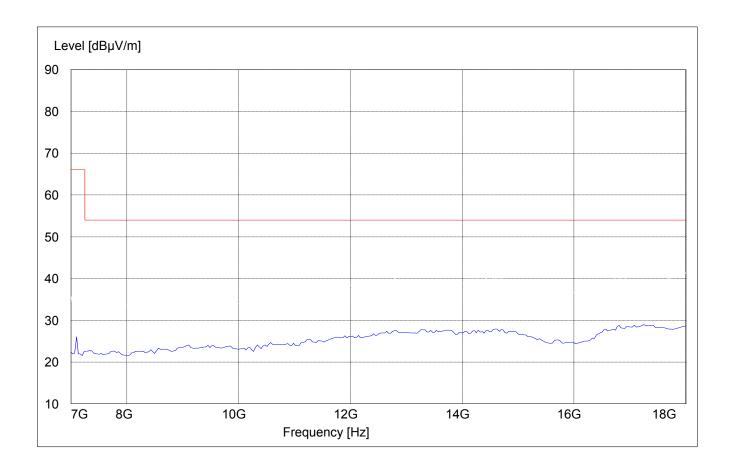
SWEEP TABLE: "BT Spuri hi 7-18G"

Short Description: Bluetooth Spurious 7-18 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

7.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #325 horn (dBi)





RECEIVER SPURIOUS RADIATION

§ 15.209

18GHz - 26.5GHz

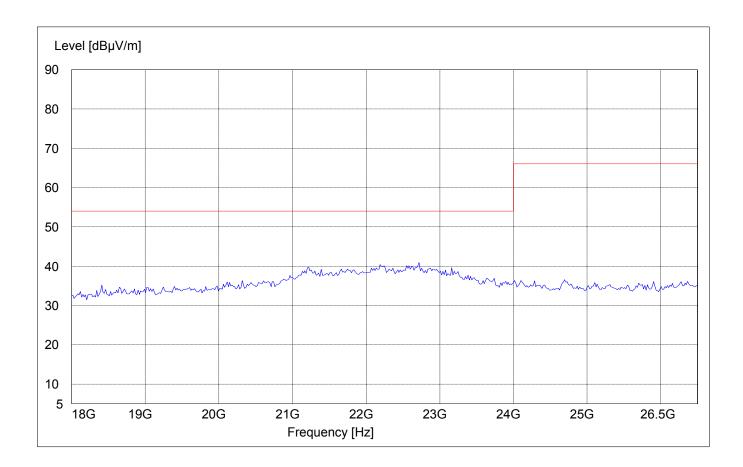
SWEEP TABLE: "BT Spuri hi 18-26.5G"

Short Description: Bluetooth Spurious 18-26.5GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18.0 GHz 26.5 GHz MaxPeak Coupled 1 MHz #3160-09 horn (dBi)





RECEIVER SPURIOUS RADIATION

§ 15.209

26.5GHz - 40GHz

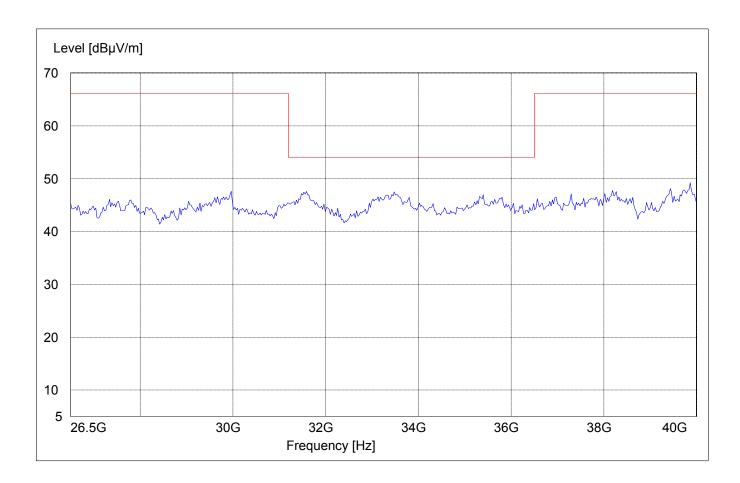
SWEEP TABLE: "BT Spuri hi 26.5-40G"

Short Description: Bluetooth Spurious 26.5-40GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

26.5 GHz 40GHz MaxPeak Coupled 1 MHz #3160-10 horn (dBi)



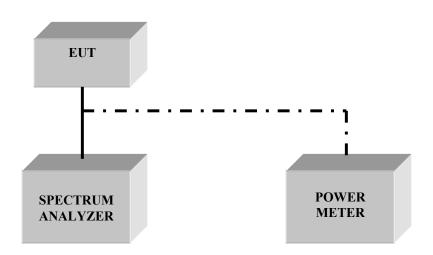


TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107
02	Biconilog Antenna	3141	EMCO	0005-1186
03	Horn Antenna (700M-18GHz)	SAS-200/571	AH Systems	325
04	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240
05	Horn Antenna (26.5-40GHz)	3160-10	EMCO	1156
06	2-3GHz Band reject filter	BRM50701	Microtronics	6
07	7-18GHz High Pass Filter	HPM50106	Microtronics	1
08	Pre-Amplifier	TS-ANA	Rohde & Schwarz	
09	Pre-Amplifier	JS4-00102600	Miteq	00616



BLOCK DIAGRAMS Conducted Testing





Radiated Testing

ANECHOIC CHAMBER

