

Produkte **Products**

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Test Report No.:

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Auftraggeber:

Andon Health Co., Ltd.

Client:

No. 31 Changjiang Road, Nankai District Tianjin 300193, P.R. China

Gegenstand der Prüfung:

Test Item:

Bluetooth Body Scale

Bezeichnung: Identification:

Serien-Nr.: Serial No .:

Engineering sample

Wareneingangs-Nr.:

Receipt No.:

153170503

Eingangsdatum: Date of Receipt:

2011-08-17

Prüfort:

TÜV Rheinland (Shanghai) Co., Ltd.

Testing Location:

HS3

Building 2, No. 777 Guangzhong Road West, Shanghai 200072, P.R. China

Prüfgrundlage: Test Specification: FCC 47 CFR Part 15, Subpart C, Section 15.247 (October 1, 2009) ANSI C63.4-2003

Public Notice DA 00-705: Filing and Measurement Guidelines for Frequency Hopping

Spread Spectrum Systems (March 30, 2000)

RSS-210 (Issue 8): 2010 RSS-Gen (Issue 3): 2010

Prüfergebnis:

Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).

Test Result:

The test item passed the test specification(s).

Prüflaboratorium:

TÜV Rheinland (Shanghai) Co., Ltd.

Testing Laboratory:

10-15/F, Huatsing Building, No.88, Lane 777, Guangzhong Road West, Shanghai

200072, P.R. China

geprüft/ tested by:

kontrolliert/ reviewed by:

2011-08-31

Shi Li / Inspector

1i.shu

2011-08-31

Kong Xiangming / Reviewer Kon

Datum Date

Name/Stellung Name/Position

Unterschrift Signature

Datum Date

Name/Stellung Name/Position

Unterschrift Signature

Sonstiges I Other Aspects:

Abkürzungen:

P(ass)

entspricht Prüfgrundlage entspricht nicht Prüfgrundlage Abbreviations:

P(ass) passed

F(ail) N/A N/T

nicht anwendbar

nicht aetestet

F(ail) N/A

failed not applicable not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a.m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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TEST SUMMARY

3.2.1 VOLTAGE REQUIREMENTS, FCC 15.31(E)

RESULT: PASS

3.2.2 ANTENNA REQUIREMENTS, FCC 15.203, FCC 15.204 AND RSS-GEN 7.1.4

RESULT: PASS

5.1.1 CONDUCTED OUTPUT POWER, FCC 15.247(B)(1) AND RSS-210 A8.4(2)

RESULT: PASS

5.1.2 Carrier Frequency Separation, FCC 15.247(a)(1) and RSS-210 A8.1(b)

RESULT: PASS

5.1.3 20DB BANDWIDTH, FCC 15.247(A)(1) AND RSS-210 A8.1(A)

5.1.4 99% BANDWIDTH, RSS-GEN 4.6.1

5.1.5 Number of Hopping Frequencies, FCC 15.247(a)(1)(iii) and RSS-210 A8.1(d)

RESULT: PASS

5.1.6 AVERAGE TIME OF OCCUPANCY, FCC 15.247(A)(1)(III) AND RSS-210 A8.1(D)

RESULT: Pass

5.1.7 CONDUCTED SPURIOUS EMISSION, FCC 15.247(D) AND RSS-210 A8.5

RESULT: Pass

5.1.8 BAND EDGE COMPLIANCE OF RF CONDUCTED EMISSION, FCC 15.247(D) AND

RSS-210 A8.5

RESULT: PASS

6.1.1 BAND EDGE RADIATED EMISSION, FCC 15.205, FCC 15.209, FCC 15.247(D),

RSS-210 2.2, RSS-210 2.6 AND RSS-210 A8.5

RESULT: Pass

6.1.2 RADIATED SPURIOUS EMISSION OF TRANSMITTER, FCC 15.205, FCC 15.209, FCC

15.247(D), RSS-210 2.2, RSS-210 2.6 AND RSS-210 A8.5

RESULT: PASS

6.2.1 RADIATED SPURIOUS EMISSION OF RECEIVER, FCC 15.109, RSS-210 2.2, RSS-

210 2.6, RSS-210 A8.5, RSS-GEN 7.2.3.2

RESULT: PASS

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report.

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd. 10-15/F, Huatsing Building, No.88, Lane 777, West Guangzhong Road, Zhabei District Shanghai 200072, P.R. China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 657274.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 2932F-1.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Model	Serial no.	Cal. due date
3m modified semi-anechoic chamber	SAC	N/A	22.11.2012
EMI test receiver	ESCI	100280	22.11.2011
Trilog broadband antenna	VULB 9163	9163-492	23.05.2013
Spectrum analyzer	FSP30	100192	31.05.2012
Broadband coaxial preamplifier	BBV 9718	9718-012	01.04.2012
Double ridged broadband horn antenna	BBHA 9120 D	9120D-433	15.05.2013

2.3 Measurement Uncertainty

Table 2: Emission Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

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3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a body scale with bluetooth function.

3.2 System Details

Radio standard: Bluetooth Specified output power: 4dBm Antenna gain: 2.28dBi

Antenna type: Internal antenna

Antenna mounting type: Printed Antenna cable length: N/A

Frequency range: 2402 – 2480MHz

Number of channels: 79 Channel spacing: 1MHz

Modulation type: GFSK, $\pi/4$ -DQPSK or 8DPSK

Rated voltage: 6V (Battery)

Protection class: III

Test voltage: 6V

3.2.1 Voltage Requirements, FCC 15.31(e)

RESULT: Pass

All the tests were performed using new batteries. Hence it complies with the power supply requirements.

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3.2.2 Antenna Requirements, FCC 15.203, FCC 15.204 and RSS-Gen 7.1.4

RESULT: Pass

The EUT has an internal antenna which is not user accessible. Hence it complies with the requirements.

3.3 Independent Operation Modes

The EUT was tested on a stand-alone basis (only attached to the test jig) and the test system was configured in a typical fashion (as a customer would normally use it).

The justification and manipulation of cables and equipment in order to simulate a worst-case behavior of the test setup has been carried out as prescribed in ANSI C63.4:2003. Testing was performed at the lowest operating frequency (2402MHz), at the operating frequency in the middle of the specified frequency band (2441MHz) and at the highest operating frequency (2480MHz) with different modulation types.

The basic operation modes are:

- A. EUT transmits (TX mode), with full power, at lowest channel (2402MHz), a continuous modulated signal streaming with 34.4% duty cycle.
- B. EUT transmits (TX mode), with full power, at middle channel (2441MHz), a continuous modulated signal streaming with 34.4% duty cycle.
- C. EUT transmits (TX mode), with full power, at highest channel (2480MHz), a continuous modulated signal streaming with 34.4% duty cycle.
- D. EUT receives (RX mode), at middle channel (2441MHz), continuously.
- E. EUT transmits on pseudo-random sequence on all channels (hopping mode).

3.4 Clock Frequencies

The highest clock frequency generated by the EUT is 16 MHz.

3.5 Noise Suppressing Parts

Refer to schematics and internal photos.

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4. Test Set-up and Operation Modes

4.1 Test Methodology

The test methodology used is based on the requirements of 47 CFR Part 15, Sections 15.31, 15.33, 15.35, 15.205, 15.207, 15.209 and Public Notice DA 00-705.

The test methods, which have been used, are based on ANSI C63.4-2003 and RSS-Gen (Issue 3).

For details, see under each test item.

4.2 Physical Configuration for Testing

The EUT was designed to get into related working mode with the control of a laptop computer through RS 232 cable.

Notes:

Two test samples were available. Sample No.1 was used for antenna conducted measurements and sample No. 2 was used for radiated measurements.

For antenna conducted measurements, the antenna was replaced by a 50Ω antenna connector.

For more details, refer to section: Photographs of the Test Set-Up.

4.3 Test Operation and Test Software

Software used for testing: RF Utility ISRT version 1.0.0.19 by client.

This software was running on the laptop computer connected to the EUT. It was used to enable the test operation modes listed in section 3.3 as appropriate.

4.4 Special Accessories and Auxiliary Equipment

N/A.

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4.5 Countermeasures to achieve EMC Compliance								
No additional measures v	No additional measures were employed to achieve compliance.							

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5. Test Results of Conducted Measurements at Antenna Port

5.1 Transmitter Parameters

5.1.1 Conducted Output Power, FCC 15.247(b)(1) and RSS-210 A8.4(2)

RESULT: Pass

Date of testing: 2011-08-10

Ambient temperature: 23.0°C
Relative humidity: 62.2%
Atmospheric pressure: 101.5hPa

Requirements:

For frequency hopping systems operating in the 2400-2483.5MHz band employing at least 75 non-overlapping hopping channels, the maximum peak output power shall be 1W (30dBm). For other hopping systems operating in the 2400-2483.5MHz band, the maximum peak output power shall be 0.125W (21dBm).

Test procedure:

ANSI C63.4-2003, RSS-Gen 4.8 and Public Notice DA 00-705.

The maximum peak output power (conducted) was measured at the antenna connector with a spectrum analyzer. The analyzer resolution bandwidth was set to 3MHz and the video bandwidth to 10MHz. The final measurement takes into account the loss generated by all the involved cables.

Table 3: Conducted Output Power, Mode A (2402MHz)

Data Rate [Mbps]	Reading [dBm]	Correction Factor [dB]	RBW [MHz]	Output Power [dBm]	Limit [dBm]	Margin [dB]
1	4.64	0.63	3	4.64	30	25.36
2	4.68	0.63	3	4.68	30	25.32
3	4.75	0.69	3	4.75	30	25.25

Notes: Cable loss was included in reading as offset.

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Table 4: Conducted Output Power, Mode B (2441MHz)

Data Rate [Mbps]	Reading [dBm]	Correction Factor [dB]	RBW [MHz]	Output Power [dBm]	Limit [dBm]	Margin [dB]
1	4.55	0.63	3	4.55	30	25.45
2	4.59	0.63	3	4.59	30	25.41
3	4.65	0.69	3	4.65	30	25.35

Notes: Cable loss was included in reading as offset.

Table 5: Conducted Output Power, Mode C (2480MHz)

Data Rate [Mbps]	Reading [dBm]	Correction Factor [dB]	RBW [MHz]	Output Power [dBm]	Limit [dBm]	Margin [dB]
1	4.52	0.63	3	4.52	30	25.48
2	4.54	0.63	3	4.54	30	25.46
3	4.60	0.69	3	4.60	30	25.40

Notes: Cable loss was included in reading as offset.

Remark:

The above results show that the worst case output power is found at the data rate of 3Mbps. Therefore, all the other measurements for the evaluation of the radio properties of the EUT have been performed using this data rate.

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5.1.2 Carrier Frequency Separation, FCC 15.247(a)(1) and RSS-210 A8.1(b)

RESULT: Pass

Date of testing: 2011-08-09

Ambient temperature: 23.0°C
Relative humidity: 62.2%
Atmospheric pressure: 101.5hPa

Requirements:

Frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. In case of an output power less than 125mW, the frequency hopping system may have channels separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

Test procedure:

ANSI C63.4-2003 and Public Notice DA 00-705.

A spectrum analyzer was connected to the antenna port of the EUT. The analyzer resolution bandwidth was set to 100kHz and the video bandwidth to 300kHz. The Delta Marker function was used to determine the separation between the peaks of two adjacent channels.

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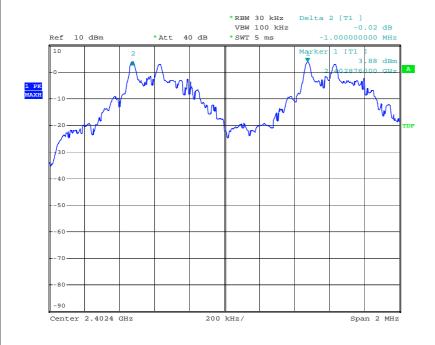
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Table 6: Carrier Frequency Separation

Channel	Channel Separation [kHz]	20dB Bandwidth [kHz](EDR)	20dB Bandwidth [kHz](GFSK)	Limit [kHz]
Low	1000	1272	676	848.0
Middle	1000	1268	680	845.3
High	1000	1268	676	845.3

Notes: Limit = 20dB bandwidth * 2/3 since it is greater than 125kHz and the output power is less than 125mW.

Figure 1: Carrier Frequency Separation-Low Channel



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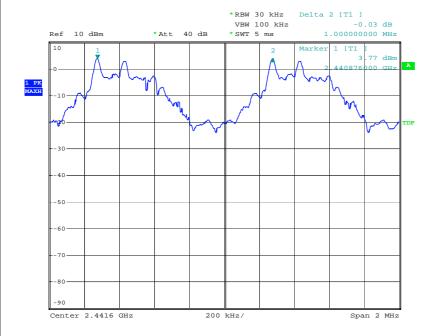
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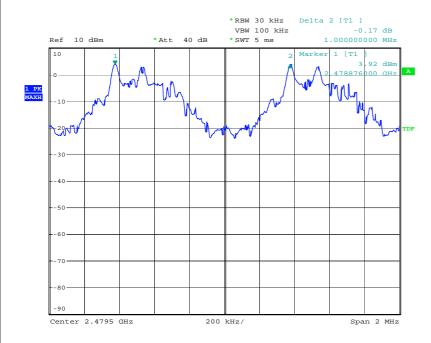
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Figure 2: Carrier Frequency Separation-Middle Channel



Date: 9.AUG.2011 14:46:45

Figure 3: Carrier Frequency Separation-Middle Channel



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5.1.3 20dB Bandwidth, FCC 15.247(a)(1) and RSS-210 A8.1(a)

Date of testing: 2011-08-09 to 2011-08-31

Ambient temperature: 23.0°C Relative humidity: 62.2% Atmospheric pressure: 101.5hPa

Requirements:

For frequency hopping systems operating in the 2400-2483.5MHz band, no bandwidth limit is specified. Test data is provided for reference.

Test procedure:

ANSI C63.4-2003, RSS-Gen 4.6.2 and Public Notice DA 00-705.

A spectrum analyzer was connected to the antenna port of the EUT. The spectrum analyzer resolution bandwidth was set to 30kHz, the video bandwidth to 100kHz and the span to 2MHz.

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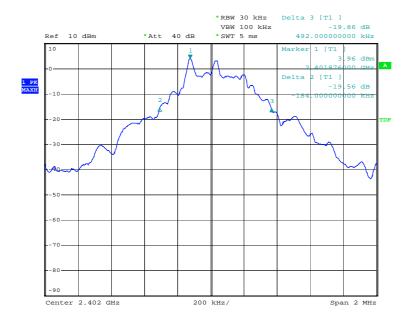
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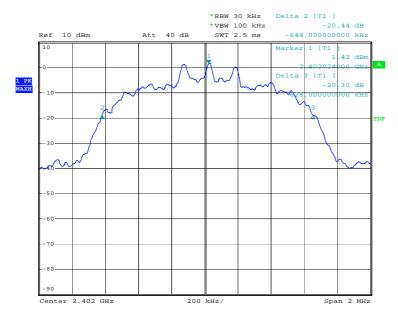
Table 7: 20dB Bandwidth

Operating Frequency [MHz]	20dB Bandwidth [kHz](EDR)	20dB Bandwidth [kHz](GFSK)
2402	1272	676
2441	1268	680
2480	1268	676

Figure 4: 20dB Bandwidth, Mode A (2402MHz)



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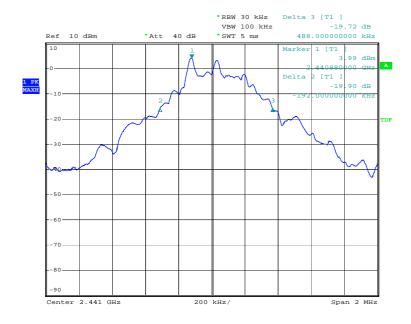
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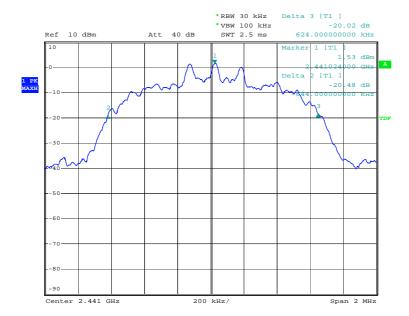
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Figure 5: 20dB Bandwidth, Mode B (2441MHz)



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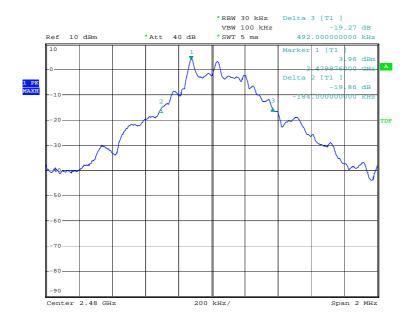
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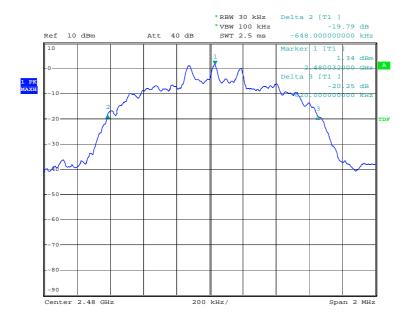
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Figure 6: 20dB Bandwidth, Mode C (2480MHz)



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Date: 31.AUG.2011 10:29:10

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5.1.4 99% Bandwidth, RSS-Gen 4.6.1

Date of testing: 2011-08-09 to 2011-08-31

Ambient temperature: 23.0°C
Relative humidity: 62.2%
Atmospheric pressure: 101.5hPa

Requirements:

The 99% bandwidth shall be reported according to RSS-Gen 4.6.1.

Test procedure:

RSS-Gen 4.6.1.

A spectrum analyzer was connected to the antenna port of the EUT. The spectrum analyzer resolution bandwidth was set to 1% of the span (2MHz). The 99% bandwidth was measured by using the OBW function of the analyzer with a 99% coverage setting.

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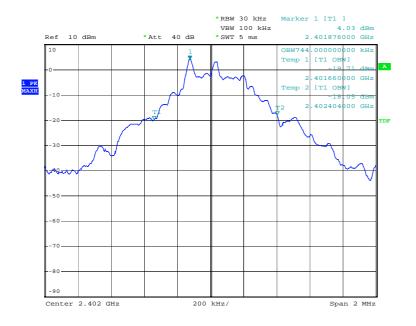
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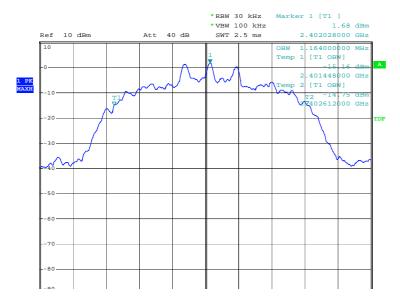
Table 8: 99% Bandwidth

Operating Frequency [MHz]	99% Bandwidth [MHz](EDR)	99% Bandwidth [MHz](GFSK)
2402	1.164	0.744
2441	1.168	0.744
2480	1.168	0.752

Figure 7: 99% Bandwidth, Mode A (2402MHz)



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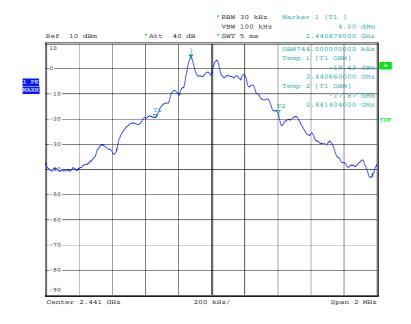
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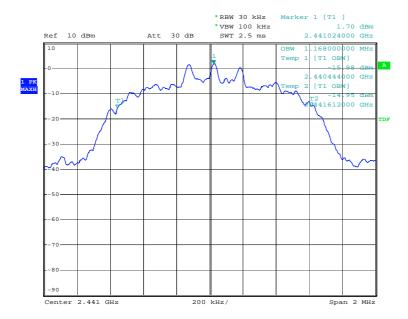
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Figure 8: 99% Bandwidth, Mode B (2441MHz)



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Date: 31.AUG.2011 12:29:10

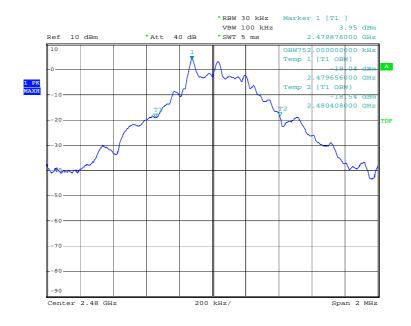
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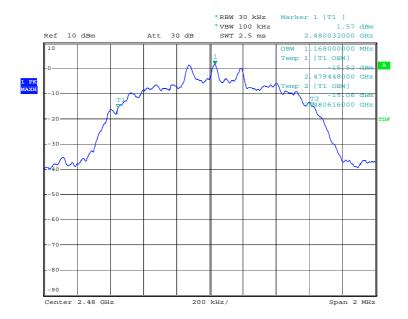
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Figure 9: 99% Bandwidth, Mode C (2480MHz)



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Date: 31.AUG.2011 12:32:39

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5.1.5 Number of Hopping Frequencies, FCC 15.247(a)(1)(iii) and RSS-210 A8.1(d)

RESULT: Pass

Date of testing: 2011-08-09

Ambient temperature: 23.0°C
Relative humidity: 62.2%
Atmospheric pressure: 101.5hPa

Requirements:

Frequency hopping systems operating in the 2400-2483.5MHz band shall use at least 15 channels.

Test procedure:

ANSI C63.4-2003 and Public Notice DA 00-705.

A spectrum analyzer was connected to the antenna port of the EUT. The analyzer resolution bandwidth was set to 300kHz and video bandwidth was set to 1MHz. The spectrum was broken in three plots to show all the hopping frequencies.

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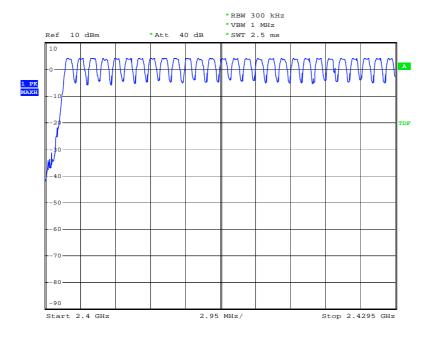
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Table 9: Number of Hopping Frequencies

Number of Hopping Frequencies	Limit
79	15

Figure 10: Hopping Frequencies up to 2429.5MHz, Mode E (Hopping)



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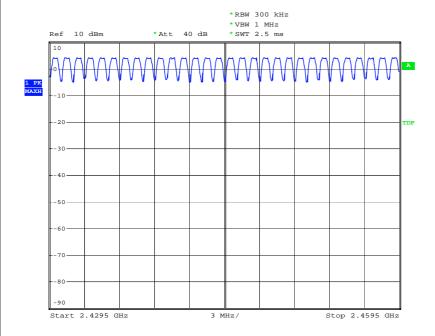
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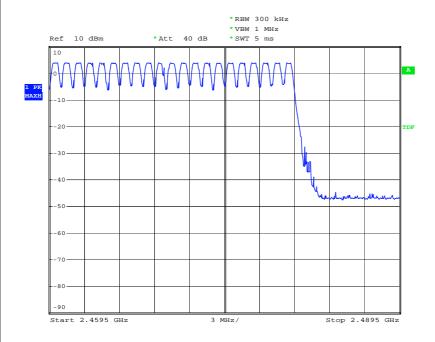
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Figure 11: Hopping Frequencies up to 2459.5MHz, Mode E (Hopping)



Date: 9.AUG.2011 16:25:03

Figure 12: Hopping Frequencies up to 2489.5MHz, Mode E (Hopping)



Date: 9.AUG.2011 16:27:26

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5.1.6 Average Time of Occupancy, FCC 15.247(a)(1)(iii) and RSS-210 A8.1(d)

RESULT: Pass

Date of testing: 2011-08-09

Ambient temperature: 23.0°C
Relative humidity: 62.2%
Atmospheric pressure: 101.5hPa

Requirements:

For frequency hopping systems operating in the 2400-2483.5MHz band, the average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

Test procedure:

ANSI C63.4-2003 and Public Notice DA 00-705.

A spectrum analyzer was connected to the antenna port of the EUT. The analyzer resolution bandwidth and video bandwidth were set to 1MHz. The average time of occupancy was obtained by measuring first the dwell time of a single packet with the Delta Marker function using a zero span centered on a hopping channel and by counting then the number of hops per channel in a 31.6s period (0.4s times the number of hopping channels).

Produkte Products



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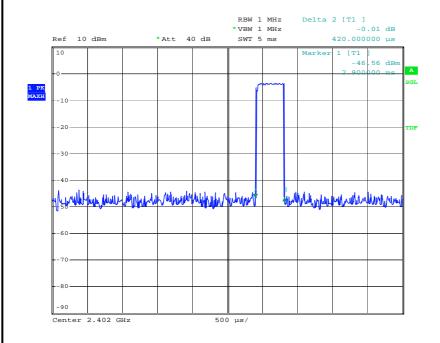
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Table 10: Average Time of Occupancy

Channel	Packet Type	Packet Duration [ms]	Number of Hops per Channel in a 31.6s Period	Average Time of Occupancy [ms]	Limit [ms]
Low	DH1	0.42	320.1	134. 4	400
	DH3	1.70	159.9	271.83	400
	DH5	2.97	106.81	317.2257	400
Mid	DH1	0.46	320.1	147.246	400
	DH3	1.69	159.9	270.231	400
	DH5	2.94	106.81	314.0214	400
High	DH1	0.43	320.1	137.643	400
	DH3	1.71	159.9	273.429	400
	DH5	2.95	106.81	315.0895	400

Notes: Average time of occupancy = Packet duration * Number of hops per channel in a 31.6s period

Figure 13: Dwell Time, Mode E (Hopping), DH1, Low channel



Date: 9.AUG.2011 16:36:41

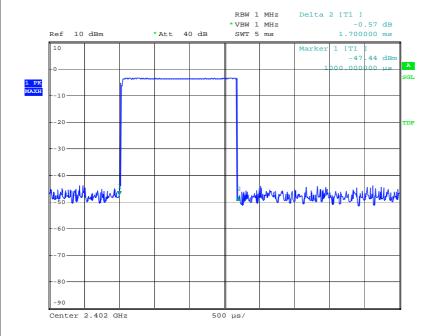
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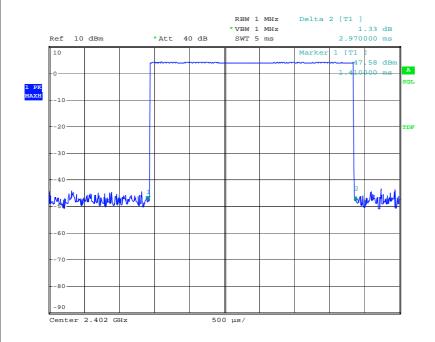
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Figure 14: Dwell Time, Mode E (Hopping), DH3, Low channel



Date: 9.AUG.2011 16:43:52

Figure 15: Dwell Time, Mode E (Hopping), DH5, Low channel



Date: 9.AUG.2011 16:52:01

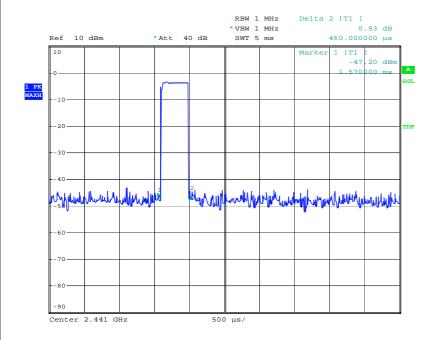
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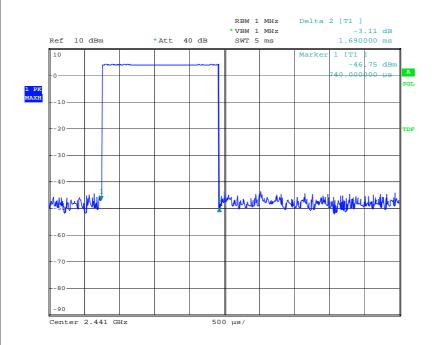
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Figure 16: Dwell Time, Mode E (Hopping), DH1, Mid channel



Date: 9.AUG.2011 16:39:07

Figure 17: Dwell Time, Mode E (Hopping), DH3, Mid channel



Date: 9.AUG.2011 16:47:56

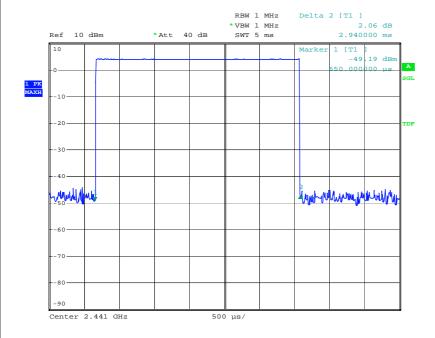
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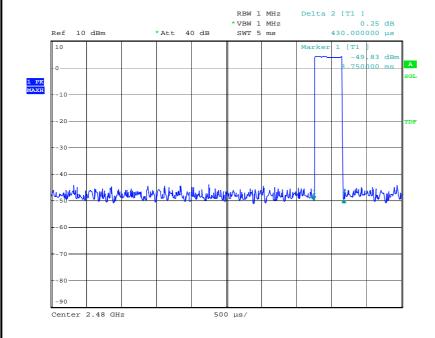
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Figure 18: Dwell Time, Mode E (Hopping), DH5, Mid channel



Date: 9.AUG.2011 16:53:26

Figure 19: Dwell Time, Mode E (Hopping), DH1, High channel



Date: 9.AUG.2011 16:40:40

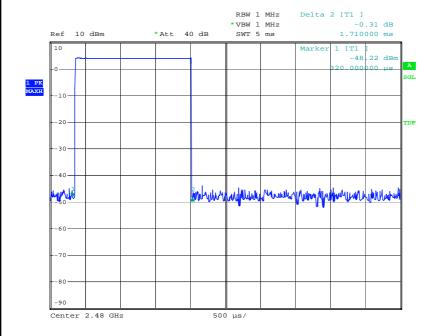
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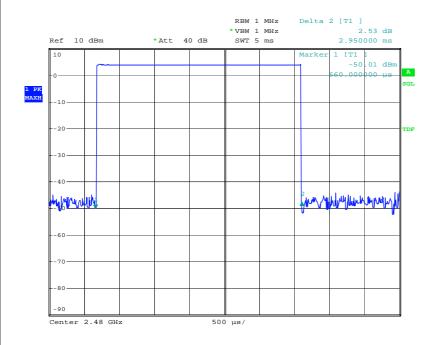
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Figure 20: Dwell Time, Mode E (Hopping), DH3, High channel



Date: 9.AUG.2011 16:49:22

Figure 21: Dwell Time, Mode E (Hopping), DH5, High channel



Date: 9.AUG.2011 16:55:49

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5.1.7 Conducted Spurious Emission, FCC 15.247(d) and RSS-210 A8.5

RESULT: Pass

Date of testing: 2011-08-31

Ambient temperature: 23.0°C
Relative humidity: 62.2%
Atmospheric pressure: 101.5hPa

Requirements:

In any 100kHz bandwidth outside the frequency band, the RF power shall be at least 20dB below that of the maximum in-band 100kHz emission.

Test procedure:

ANSI C63.4-2003, RSS-Gen 4.9 and Public Notice DA 00-705.

A spectrum analyzer was connected to the antenna port of the EUT. The analyzer resolution bandwidth was set to 100kHz. For each channel investigated, the in-band and out-of-band emission measurements were performed. The out-of-band emissions were measured from 30MHz to 25GHz (10th harmonics).

The final measurement takes into account the loss generated by all the involved cables.

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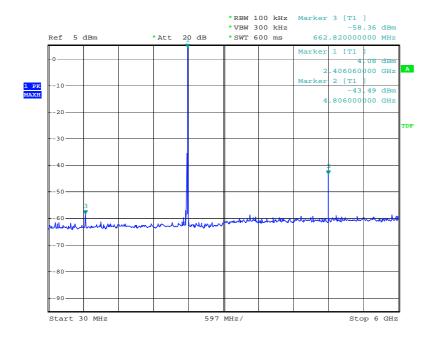
Table 11: Conducted Spurious Emission, Mode A (2402MHz)

Frequency [MHz]	Reading [dBm]	Emission Level [dBm]	Limit [dBm]	Margin [dB]
662.82	-58.36	-58.36	-15.92	42.44
4806.00	-43.49	-43.49	-15.92	27.57
7178.00	-39.55	-39.55	-15.92	23.63
2406.06	4.08	4.08	N/A	N/A

Notes: Cable loss was included in reading as offset.

Limit = Reading of fundamental + Correction factor - 20dB

Figure 22: Conducted Spurious Emission, 30MHz – 6GHz, Mode A (2402MHz)



Date: 31.AUG.2011 16:18:54

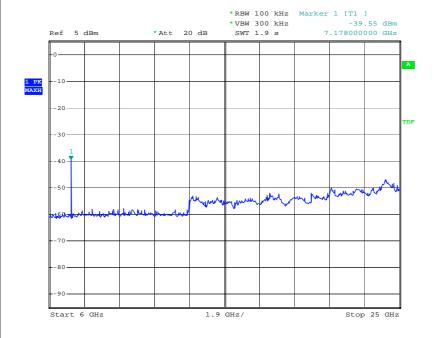
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Figure 23: Conducted Spurious Emission, 6 – 25GHz, Mode A (2402MHz)



Date: 31.AUG.2011 16:20:02

Table 12: Conducted Spurious Emission, Mode B (2441MHz)

Frequency [MHz]	Reading [dBm]	Emission Level [dBm]	Limit [dBm]	Margin [dB]
698.64	-57.53	-57.53	-15.78	41.75
4889.58	-46.84	-46.84	-15.78	31.06
7292.00	-37.64	-37.64	-15.78	21.86
2441.88	4.22	4.22	N/A	N/A

Notes: Cable loss was included in reading as offset.

Limit = Reading of fundamental + Correction factor – 20dB

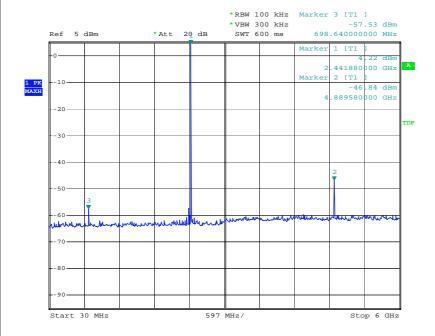
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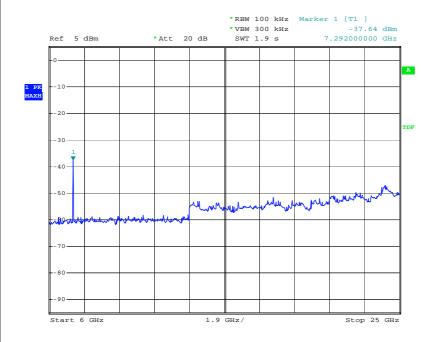
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Figure 24: Conducted Spurious Emission, 30MHz – 6GHz, Mode B (2441MHz)



Date: 31.AUG.2011 16:21:59

Figure 25: Conducted Spurious Emission, 6 – 25GHz, Mode B (2441MHz)



Date: 31.AUG.2011 16:20:59

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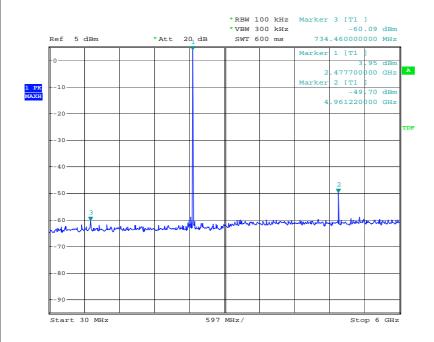
Table 13: Conducted Spurious Emission, Mode C (2480MHz)

Frequency [MHz]	Reading [dBm]	Emission Level [dBm]	Limit [dBm]	Margin [dB]
734.46	-60.09	-60.09	-16.05	40.04
4961.22	-49.70	-49.70	-16.05	33.65
7406.00	-35.03	-35.03	-16.05	18.98
1238.40	-55.01	-55.01	-16.05	38.96
2477.70	3.95	3.95	N/A	N/A

Notes: Cable loss was included in reading as offset.

Limit = Reading of fundamental + Correction factor – 20dB

Figure 26: Conducted Spurious Emission, 30MHz – 6GHz, Mode C (2480MHz)



Date: 31.AUG.2011 16:26:06

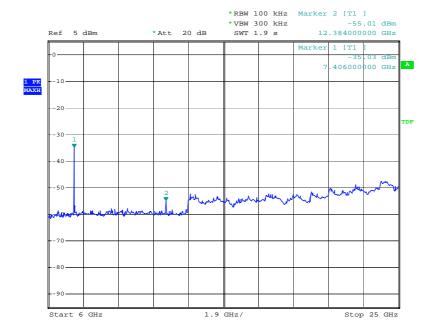
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Figure 27: Conducted Spurious Emission, 6 – 25GHz, Mode C (2480MHz)



Date: 31.AUG.2011 16:27:36

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5.1.8 Band Edge Compliance of RF Conducted Emission, FCC 15.247(d) and RSS-210 A8.5

RESULT: Pass

Date of testing: 2011-08-11

Ambient temperature: 23.0°C
Relative humidity: 62.2%
Atmospheric pressure: 101.5hPa

Requirements:

In any 100kHz bandwidth outside the frequency band, the RF power shall be at least 20dB below that of the maximum in-band 100kHz emission.

Test procedure:

ANSI C63.4-2003 and Public Notice DA 00-705.

A spectrum analyzer was connected to the antenna port of the EUT. The analyzer resolution bandwidth was set to 100kHz and video bandwidth was set to 300kHz. Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.

The final measurement takes into account the loss generated by all the involved cables.

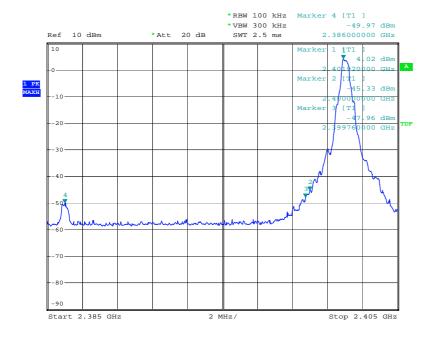
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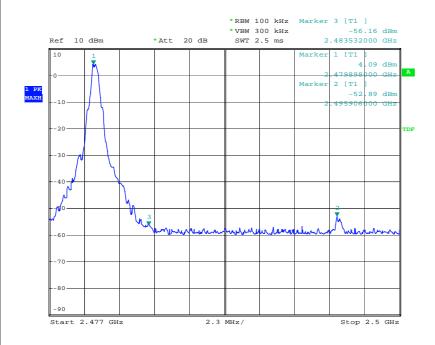
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Figure 28: Lower Band Edge Conducted, Hopping Disenabled



Date: 11.AUG.2011 12:32:28

Figure 29: Upper Band Edge Conducted, Hopping Disenabled



Date: 11.AUG.2011 12:36:48

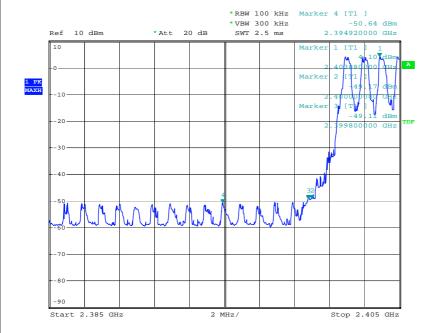
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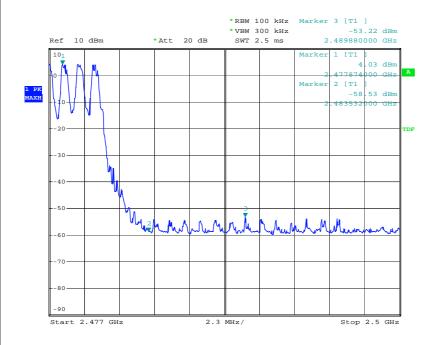
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Figure 30: Lower Band Edge Conducted, Hopping Enabled



Date: 11.AUG.2011 12:41:09

Figure 31: Upper Band Edge Conducted, Hopping Enabled



Date: 11.AUG.2011 12:45:09

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6. Test Results of Radiated Measurements

6.1 Transmitter Parameters

6.1.1 Band Edge Radiated Emission, FCC 15.205, FCC 15.209, FCC 15.247(d), RSS-210 2.2, RSS-210 2.6 and RSS-210 A8.5

RESULT: Pass

Date of testing: 2011-08-19

Ambient temperature: 23.0°C Relative humidity: 60% Atmospheric pressure: 101.5hPa

Measurement distance: 3m

Kind of test site: Semi Anechoic Chamber

Requirements:

Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-210 2.7 (Table 1), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-210 2.7 (Table 2 and 3).

Test procedure:

ANSI C63.4-2003, RSS-Gen 4.9 and Public Notice DA 00-705.

The EUT was placed on a nonconductive turntable 0.8m above the ground plane. Measurements were made at 3m distance. The EUT was rotated 360° and the antenna was raised and lowered from 1 to 4m in order to determine the emission's maximum level.

Measurements were taken using both horizontal and vertical antenna polarization. The rotation through the three orthogonal axes is normally not needed for equipment that is not hand-held or body-worn. The EUT was pretested in floor-standing condition and in the table position and the worst case condition was table position which was used for the final measurements.

Measurements were performed using a spectrum analyzer with a suitable span to encompass the peak of the fundamental and using the following settings: Peak: RBW & VBW = 1MHz, Average: RBW = 1MHz, VBW = 10Hz.

The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

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Table 14: Band Edge Radiated Emission

Operating Frequency [MHz]	EUT / Antenna Orient.	Average Value [dBµV/m]	Peak Value [dBµV/m]	Average Limit [dBµV/m]	Peak Limit [dBµV/m]	Average Margin [dB]	Peak Margin [dB]
2399.915	X/H	No peak found	61.95	54	74	N/A	12.05
2390.685	X/H	No peak found	40.30	54	74	N/A	33.70
2399.8925	X/V	No peak found	61.49	54	74	N/A	12.51
2387.075	X/V	No peak found	39.61	54	74	N/A	34.39
2483.69012 5	X/H	No peak found	48.36	54	74	N/A	25.64
2496.01525	X/H	No peak found	36.80	54	74	N/A	37.20
2483.71887 5	X/V	No peak found	43.54	54	74	N/A	30.46
2490.67062 5	X/V	No peak found	38.59	54	74	N/A	35.41

Notes: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values. Average limit in dBuV/m is calculated as follows: Average limit = 20 x log(500uV/m). Peak limit in dBuV/m is calculated as follows: Peak limit = Average limit + 20dB.

Products

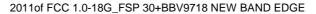
Products

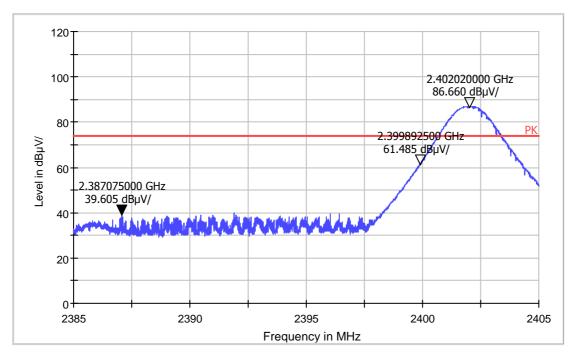


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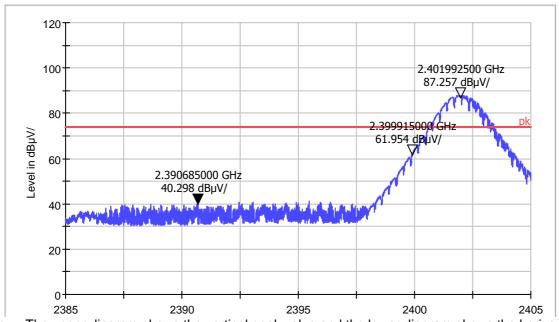
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Figure 32: Band Edge Radiated Emission, Spectral Diagram, Mode A (2402MHz)





2011of FCC 1.0-18G_FSP 30+BBV9718 NEW BAND EDGE



Note: The upper diagram shows the vertical peak value and the lower diagram shows the horizontal value.

Products

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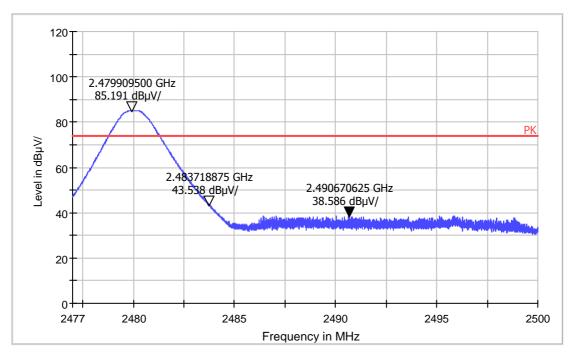


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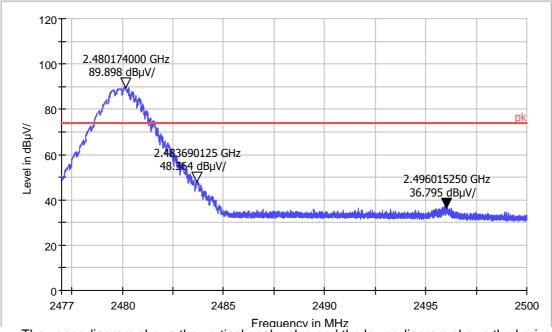
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Figure 33: Band Edge Radiated Emission, Spectral Diagram, Mode C (2480MHz)





2011of FCC 1.0-18G_FSP 30+BBV9718 NEW BAND EDGE



Note: The upper diagram shows the vertical peak value and the lower diagram shows the horizontal value.

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6.1.2 Radiated Spurious Emission of Transmitter, FCC 15.205, FCC 15.209, FCC 15.247(d), RSS-210 2.2, RSS-210 2.6 and RSS-210 A8.5

RESULT: Pass

Date of testing: 2011-08-26

Ambient temperature: 23.0°C
Relative humidity: 60%
Atmospheric pressure: 101.5hPa

Frequency range: 30MHz – 25GHz

Measurement distance: 3m

Kind of test site: Semi Anechoic Chamber

Requirements:

Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-210 2.7 (Table 1), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-210 2.7 (Table 2 and 3).

Test procedure:

ANSI C63.4-2003, RSS-Gen 4.9 and Public Notice DA 00-705.

The EUT was placed on a nonconductive turntable 0.8m above the ground plane. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The EUT was pretested in floor-standing condition and in the table position and the worst case condition was table position which was used for the final measurements. The rotation through the three orthogonal axes is normally not needed for equipment that is not hand-held or bodyworn.

The spectrum was examined from 30MHz to the 10th harmonic of the highest fundamental transmitter frequency (25GHz). Final radiated emission measurements were made at 3m distance.

At each frequency where a spurious emission was found, the EUT was rotated 360° and the antenna was raised and lowered from 1 to 4m in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations.

For frequencies between 30MHz and 1GHz, the spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. For emissions above 1GHz, measurements were performed using the following settings: Peak: RBW & VBW = 1MHz, Average: RBW = 1MHz, VBW = 10Hz.

The highest emission amplitudes relative to the appropriate limit were recorded in this report. Emissions other than those mentioned are small or not detectable.

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Table 15: Radiated Emission, Average and Peak Data, 1 – 25GHz, Horizontal and Vertical Antenna Orientations, Mode A (2402MHz)

Freq. [MHz]	EUT / Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
1693	X/H		38.03	54	74		35.97
4804	X/H		38.76	54	74		35.24
1798	X/V		37.25	54	74		36.75
4804	X/V	27.00	39.18	54	74	27.00	34.82

Note: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.

(--) The measured peak result is below the AV limit, so no AV result measurement needed.

Table 16: Radiated Emission, Average and Peak Data, 1 – 25GHz, Horizontal and Vertical Antenna Orientations, Mode B (2441MHz)

Freq. [MHz]	EUT / Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
1078	X/V		37.60	54	74		36.40
4958.64	X/V	26.63	40.20	54	74	27.37	33.80

Note: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.

(--) The measured peak result is below the AV limit, so no AV result measurement needed.

Table 17: Radiated Emission, Average and Peak Data, 1 – 25GHz, Horizontal and Vertical Antenna Orientations, Mode C (2480MHz)

Freq. [MHz]	EUT / Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
1694.5	X/H		37.88	54	74		36.12
4960	X/V	27.95	41.34	54	74	26.05	32.66
7439.73	X/V	32.03	45.30	54	74	21.97	28.70

Note: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.

(--) The measured peak result is below the AV limit, so no AV result measurement needed.

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6.2 Receiver Parameters

6.2.1 Radiated Spurious Emission of Receiver, FCC 15.109, RSS-210 2.2, RSS-210 2.6, RSS-210 A8.5, RSS-Gen 7.2.3.2

RESULT: Pass

Date of testing: 2011-08-18

Ambient temperature: 23.0°C
Relative humidity: 60.0%
Atmospheric pressure: 101.5hPa

Frequency range: 30MHz – 12.5GHz

Measurement distance: 3m

Kind of test site: Semi Anechoic Chamber

Requirements:

The emissions from the unintentional radiator shall not exceed the field strength specified in 15.109(a) and RSS-210 Table 2 (and RSS-Gen Table 1).

Test procedure:

ANSI C63.4-2003 and RSS-Gen 4.10.

The EUT was placed on a nonconductive turntable 0.8m above the ground plane. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The EUT was pretested in floor-standing condition and in the table position and the worst case condition was table position which was used for the final measurements. The rotation through the three orthogonal axes is normally not needed for equipment that is not hand-held or bodyworn.

The spectrum was examined from 30MHz to the 5th harmonic of the highest fundamental operation frequency (12.5GHz). Final radiated emission measurements were made at 3m distance.

Measurements were taken using both horizontal and vertical antenna polarizations.

For frequencies between 30MHz and 1GHz, the spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. For emissions above 1GHz, measurements were performed using the following settings: Peak: RBW & VBW = 1MHz, Average: RBW = 1MHz, VBW = 10Hz.

The highest emission amplitudes relative to the appropriate limit were recorded in this report. No spurious emission was found in the range 30MHz – 12500MHz.

Produkte Products



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7. Photographs of the Test Setup

Photograph 1: Set-up for Conducted Emissions at Antenna Port



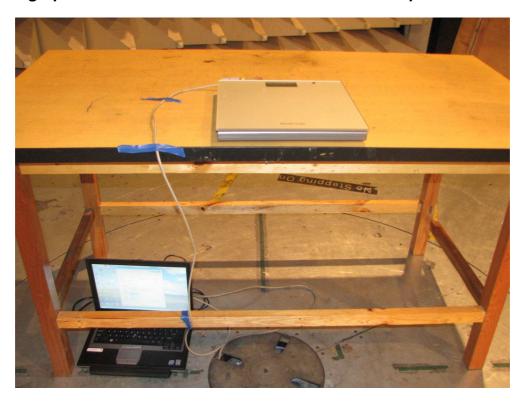
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Photograph 2: Radiated emission orientation of the sample on the table



Photograph 3: Radiated emission orientation of the sample on the wood support



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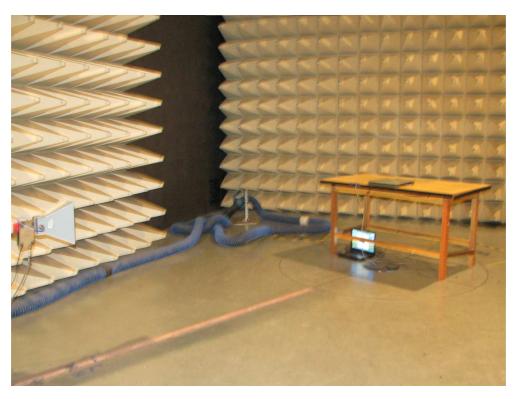
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Photograph 4: Set-up for Set-up for Radiated Emission, 30MHz-1000MHz



Photograph 5: Set-up for Radiated Emission, 1G-18GHz



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