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CERTIFICATE OF COMPLIANCE FCC PART 15.247 Certification

Applicant Name:

Sanyo Electric Co Ltd
c/o Sanyo Fisher Company
21605 Plummer Street
Chatsworth, CA 91311
USA

Date of Testing:

August 21-22, 2006

Test Site/Location:

PCTEST Lab. Columbia, MD, USA

Test Report Serial No.:

0608150677

FCC ID: AEZSCP-M1**APPLICANT:** Sanyo Electric Co Ltd**Model(s):** SCP-M1**EUT Type:** Dual-Band CDMA Phone with Bluetooth and EVDO**Max. RF Output Power:** .001 W (0.0 dBm) Conducted**Frequency Range:** 2402 – 2480MHz (Bluetooth for US)**FCC Classification:** FCC Part 15 Frequency Hopping Spread Spectrum Transceiver (DSS)**FCC Rule Part(s):** Part 15 Subpart C (15.247)

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant Conditions: Listed output power is conducted.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

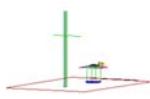
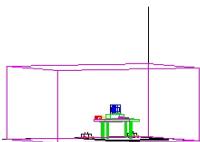
Randy Ortanez
President

FCC ID: AEZSCP-M1		FCC Pt. 15.247 BLUETOOTH CERTIFICATION REPORT		Reviewed by: Quality Manager
Test Report S/N: 0608150677	Test Dates: August 21-22, 2006	EUT Type: Dual-Band CDMA Phone with Bluetooth and EVDO		Page 1 of 26

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MEASUREMENT REPORT

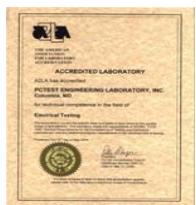
FCC Part 15.247

A. § 2.1033 General Information

APPLICANT: Sanyo Electric Co Ltd
APPLICANT ADDRESS: c/o Sanyo Fisher Company
 21605 Plummer Street
 Chatsworth, CA 91311
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): Part 15 Subpart C (15.247)
MODEL NAME: SCP-M1
FCC ID: AEZSCP-M1
Test Device Serial No.: FCC No. 1 Production Pre-Production Engineering
FCC CLASSIFICATION: FCC Part 15 Spread Spectrum Transceiver (DSS)
Method/System: FHSS Sequence Spread Spectrum (FHSS)
DATE(S) OF TEST: August 21-22, 2006
TEST REPORT S/N: 0608150677

A.1 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EVDO mobile phones.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO Data, CDMA 1xRTT Data.

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1.0 INTRODUCTION

1.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2003) and FCC Public Notice DA 00-705 dated March 30, 2000 entitled "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" were used in the measurement of **SANYO Dual-Band CDMA Phone with Bluetooth and EVDO FCC ID: AEZSCP-M1**.

Deviation from measurement procedure.....NONE

1.2 Scope

Measurement & determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

1.3 PCTEST Test Location

The map at the right shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity are, the Baltimore-Washington Interntl (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1.3-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006 and Industry Canada.

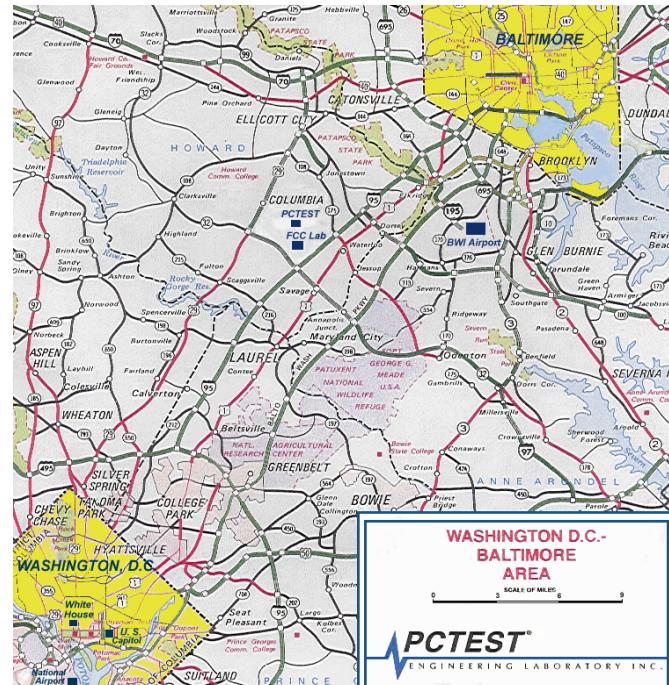


Figure 1.3-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **SANYO Dual-Band CDMA Phone with Bluetooth and EVDO** FCC ID: **AEZSCP-M1**.

- This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:
 - A) The hopping sequence is pseudorandom
 - B) All channels were used equally on average
 - C) The receiver input bandwidth equals the transmit bandwidth
 - D) The receiver hops in sequence with the transmit signal
- 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.
- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.
- The EUT consisted of the following components(s):

Manufacturer / Description	FCC ID	Serial Number
SANYO Dual-Band CDMA Phone with Bluetooth and EVDO	AEZSCP-M1	FCC No. 1

Table 2-1. EUT Equipment Description

2.2 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing.

- None

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3.0 DESCRIPTION OF TEST

3.1 Conducted Emissions

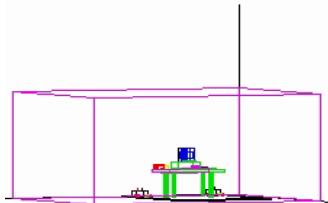


Figure 3.1-1. Shielded Enclosure Line-Conducted Test Facility

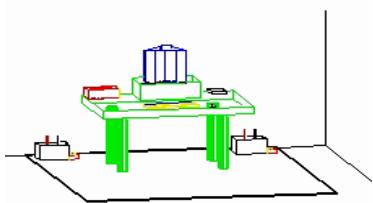


Figure 3.1-2. Line Conducted Emission Test Set-Up

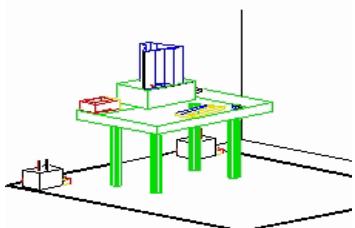


Figure 3.1-3. Wooden Table & Bonded LISNs

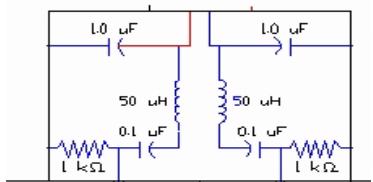


Figure 3.1-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see *Figure 3.1-1*). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the sidewall of the shielded room (see *Figure 3.1-2*). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50µH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (See *Figure 3.1-3*). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filter (100dB 14Hz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with an inner diameter of 1/2". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the Solar LISN. The LISN schematic diagram is shown (See *Figure 3.1-4*). All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The frequencies producing the maximum level were re-examined using an EMI/Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit B. Each EME reported was calibrated using the Agilent 8257D (250kHz – 20GHz) PSG Analog Signal Generator.

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3.2 Radiated Emissions

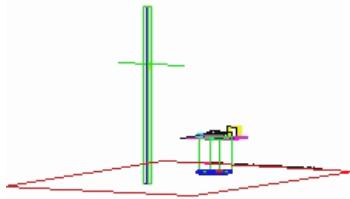


Figure 3.2-1. 3-Meter Test Site

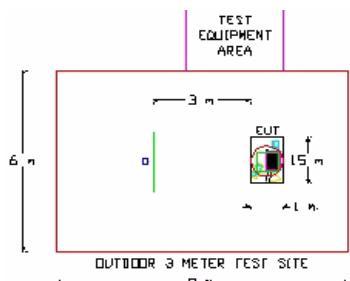


Figure 3.2-2. Dimensions of Outdoor Test Site

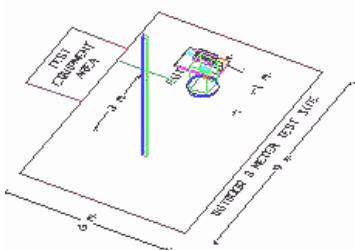


Figure 3.2-3. Turtable and System Setup

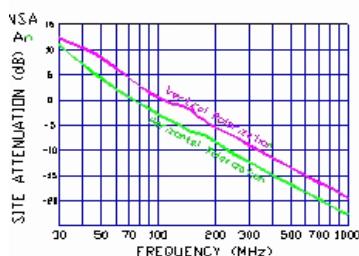


Figure 3.2-4. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1-meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, and turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using a bi-conical antenna and from 200 to 1000 MHz using a log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antennas (see Figure 3.2-1). The test equipment was placed on a wooden and plastic bench situated on a 1.5m x 2m area adjacent to the measurement area (see Figure 3.2-2). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1MHz depending on the frequency or type of signal. Above 1GHz the detector function was set to CISPR average mode (RBW = 1MHz, VBW = 10Hz). The peak emissions above 1GHz are not more than 20dB above the average limit.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 3.2-3). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit B. Each EME reported was calibrated using the Agilent 8257D (250kHz – 20GHz) PSG Analog Signal Generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3.2-4.

4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antennas of the Dual-Band CDMA Phone with Bluetooth and EVDO are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **SANYO Dual-Band CDMA Phone with Bluetooth and EVDO FCC ID: AEZSCP-M1** unit complies with the requirement of §15.203.

Ch.	Frequency (MHz)
00	2402
:	:
39	2441
:	:
78	2480

Table 4.1 Frequency/ Channel Operations

FCC ID: AEZSCP-M1	 PCTEST	FCC Pt. 15.247 BLUETOOTH CERTIFICATION REPORT	 SANYO	Reviewed by: Quality Manager
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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

TYPE	MODEL	CAL. DUE DATE	CAL. INTERVAL	SERIAL No.
Microwave Spectrum Analyzer	Agilent E4448A (3Hz-50GHz)	09/19/06	Annual	US42510244
Spectrum Analyzer	HP 8566B (100Hz-22GHz)	12/22/06	Annual	3638A08713
ESA-E Series Spectrum Analyzer	HP E4407B (9kHz-26.5GHz)	04/20/07	Annual	US39210313
Signal Generator	HP 8650B (500Hz-1GHz)	06/02/07	Annual	2232A19558
PSG Analog Signal Generator	Agilent 8257D (250kHz-20GHz)	02/11/06	Annual	MY45470194
Series Signal Generator	Agilent E4432B (250kHz-3GHz)	04/15/07	Annual	US40053896
Power Meter	Rohde & Schwarz NRVS	06/02/07	Annual	835360/079
Power Sensor	Rohde & Schwarz NRV-Z53 (100μW – 10W)	06/02/07	Annual	846076/007
Quasi-Peak Adapter	HP 85650A	12/22/06	Annual	2043A00301
Preamplifier	HP 8449B (1-26.5GHz)	12/22/06	Annual	3008A00985
Attenuation/Switch Driver	HP 11713A	12/22/06	Annual	N/A
Preselector	HP 85685A (20Hz-2GHz)	12/22/06	Annual	N/A
6dB Resolution Bandwidth Spectrum Analyzer Display	OPT 462	12/22/06	Annual	3701A22204
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	12/19/06	Annual	0194-04082
Ailtech/Eaton Receiver	NM 37/57A (30MHz – 1GHz)	06/07/07	Annual	0805-03334
Broadband Amplifier (2)	HP 8447D (0.1 – 1300MHz)	N/A	N/A	2443A01900, 1937A03348
Horn Antenna	EMCO Model 3115 (1-18GHz)	08/25/07	Bi-Annual	9704-5182
Horn Antenna	EMCO Model 3116 (18-40GHz)	08/25/07	Bi-Annual	9203-2178
Roberts Dipoles (2)	Compliance Design (1 set) A100	08/31/07	Annual	5118
EMCO LISN (3)	3816/2 (2), 3725/2	10/26/06	Annual	1077, 1079, 2099
SOLAR LISN (2)	8012-50	11/18/07	Bi-Annual	0313233, 0310234
50-ohm Terminator	N/A	N/A	Annual	N/A
10dB Attenuator	HP 8493B	N/A	N/A	N/A
Microwave Cables	MicroCoax (1.0-26.5GHz)	02/26/07	Annual	N/A
Bi-Directional Coax Coupler	Narda (1GHz – 10GHz)	N/A	Annual	N/A
Shielded Screen Room	RF Lindgren Model 26-2/2-0	N/A	N/A	6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81	N/A	N/A	R2437 (PCT278)
Temperature & Humidity Chamber	ESPEC SCP-220	06/08/07	Annual	017620
OATS	N/A	01/27/2009	Tri-annual	N/A

Table 5-1. Annual Test Equipment Calibration Schedule

FCC ID: AEZSCP-M1		FCC Pt. 15.247 BLUETOOTH CERTIFICATION REPORT		Reviewed by: Quality Manager
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6.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **SANYO Dual-Band CDMA Phone with Bluetooth and EVDO FCC ID: AEZSCP-M1** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules. Measurement uncertainty was not taken into account in this determination.

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EXHIBIT A - TEST RESULTS

Summary

The intentional radiator has been tested in a simulated typical installation to demonstrate compliance with the relevant FCC performance and procedural standards. The radio was transmitting at full power on the specified channels and at a data rate(s) specified above. The channels tested are high, middle and low of the allocated bands. Final system data was gathered in a mode that tended to maximize emissions by varying the orientation of the EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization. This unit was tested with all possible pattern and packet type combinations and the worst case is reported with the unit transmitting with a DH1 packet type and a pattern type set to 10101010.

Method/System: Frequency Hopping Spread Spectrum (FHSS)

Number of Channels: 79

FCC Part Section(s)	RSS Section	Test Description	Test Limit	Test Condition	Test Result
TRANSMITTER MODE (TX)					
15.247(a)(1)(iii)	RSS-210 [A8.1]	20dB Bandwidth	< 1 MHz only if using less than 15 non-overlapping channels	Conducted	PASS
15.247(b)(1)	RSS-210 [A8.4 (2)]	Transmitter Output Power	< 1 Watt if \geq 75 non-overlapping channels used		PASS
15.247(a)(1)	RSS-210 [A8.1 (2)]	Channel Separation	> 2/3 of 20 dB BW for systems with Output Power < 125mW		PASS
15.247(a)(1)(iii)	RSS-210 [A8.1 (4)]	Number of Channels	> 15 Channels		PASS
15.247(a)(1)(iii)	RSS-210 [A8.1 (4)]	Time of Occupancy	< 0.4 sec in 30 sec period		PASS
15.247(d)	RSS-210 [A8.5]	Occupied BW / Out-of-Band Emissions (Band Edge at 20dB below)	Radiated <20dBc. Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	PASS
15.205 15.209	RSS-210 [A8.5]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS
15.207	RSS-Gen [7.2.2]	AC Conducted Emissions 150kHz – 30MHz	EN55022	Line Conducted	PASS
RECEIVER MODE (RX)					
15.207	RSS-Gen [7.2.2]	AC Conducted Emissions 150kHz – 30MHz	Class B = 250 μ V	Line Conducted	PASS
15.209	RSS-Gen [7.2.3.2]	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.209 limits or < RSS-Gen limits [Section 6; Table1]	Radiated (30MHz-1GHz) (1-25 GHz)	Pass
RF EXPOSURE (SAR OR MPE)					
15.407(f), 2.1093/2.1091	RSS-102	SAR Test or MPE	1.6 W/kg (SAR Limit) 1 mW/cm ² (MPE Limit)	3 Channels	PASS

Table A-1. Summary of Test Results

FCC ID: AEZSCP-M1		FCC Pt. 15.247 BLUETOOTH CERTIFICATION REPORT		Reviewed by: Quality Manager
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20dB Bandwidth Measurement

§15.247 (a)(1)(iii); RSS-210 (A8.1)

The bandwidth at 20dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies. **The maximum permissible 20dB bandwidth is 1 MHz, unless more than 15 non-overlapping channels are employed.**

The spectrum analyzer is set to:

RBW =	30 kHz (5 dB/div)
VBW =	30 kHz
Span =	3.0 MHz
Ref. Level =	0.5 dBm
Sweep =	4.131 ms

Frequency [MHz]	Channel No.	20dB Bandwidth Test Results	
		[kHz]	Pass/Fail
2402	0	948	Pass
2441	39	959	Pass
2480	78	975	Pass

See next pages for spectrum plots (Reference Only).

Table A-2. Conducted Bandwidth Measurements

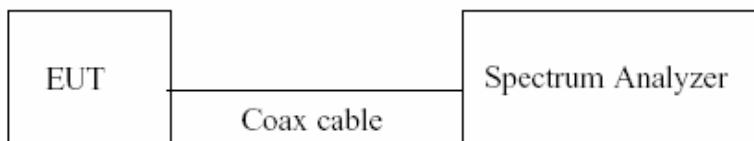
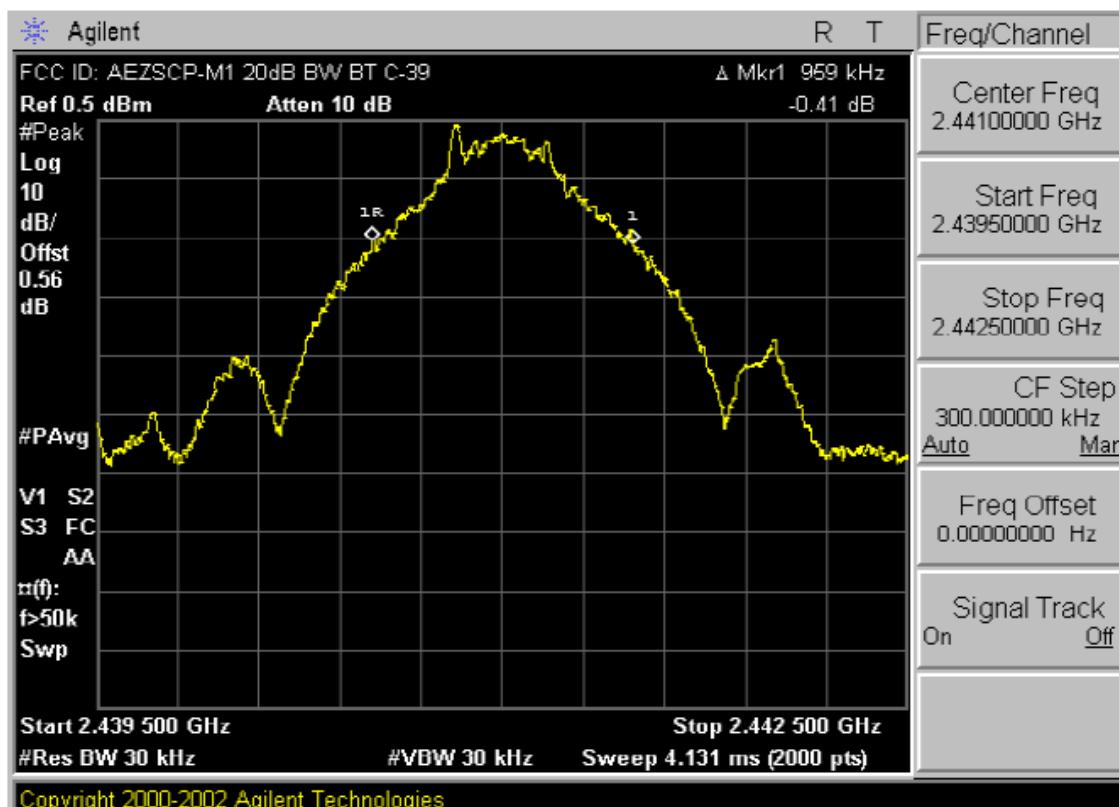
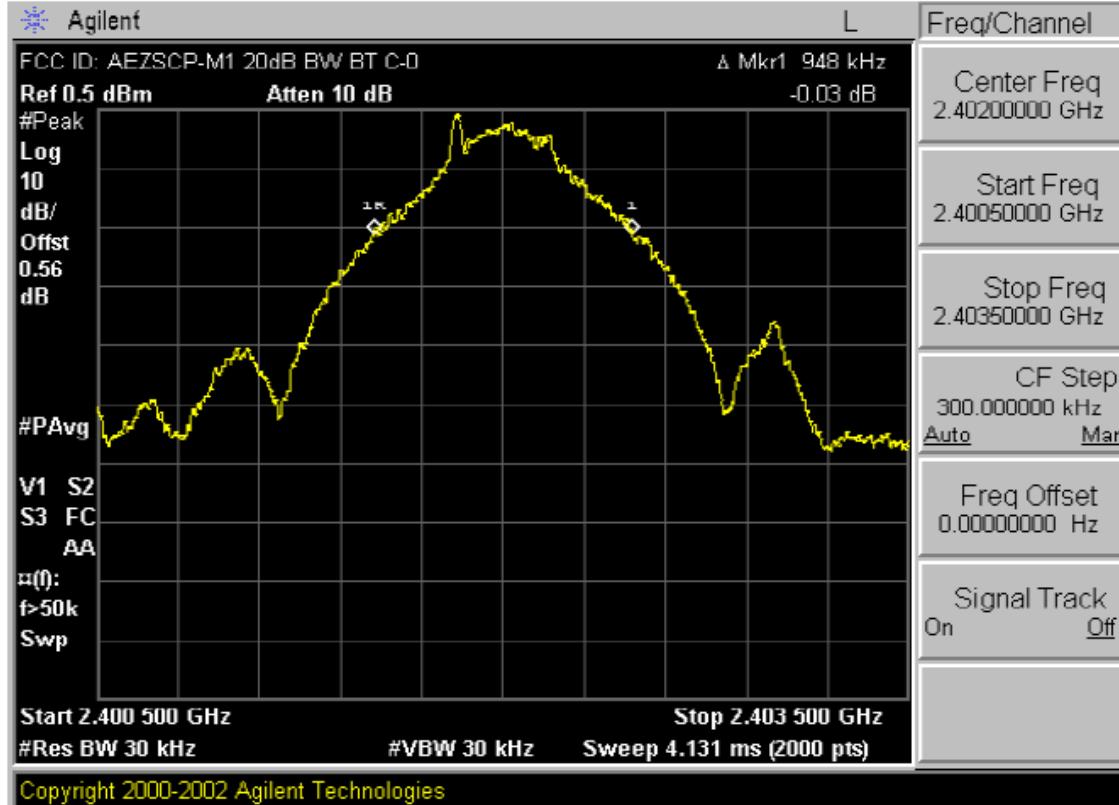
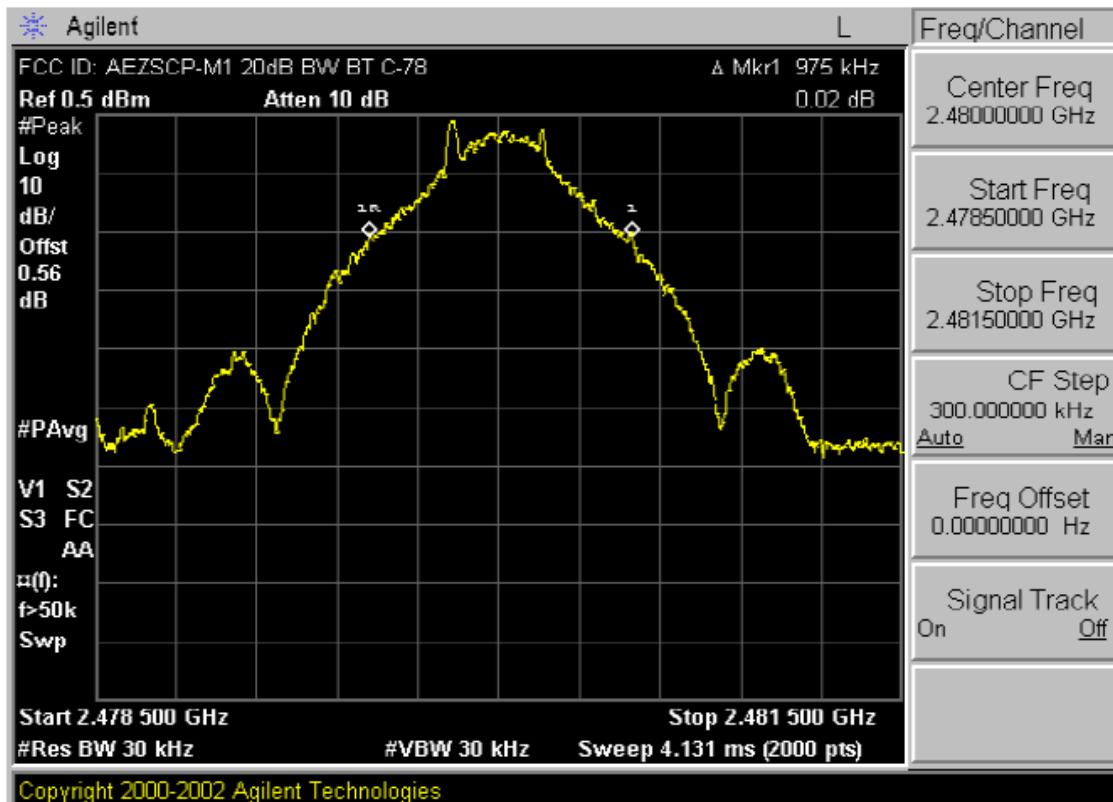


Figure A-1. Test Instrument & Measurement Setup

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Output Power Measurement

§15.247 (b)(1); RSS-210 (A8.4 (2))

Measurement is made while the EUT is operating in non-hopping transmission mode. ***The maximum permissible output power is 1 Watt.***

Frequency [MHz]	Channel No.	Conducted Power	
		[dBm]	[mW]
2402	0	-0.07	0.984
2441	39	0.14	1.033
2480	78	0.05	1.012

Table A-3. Output Power Measurements

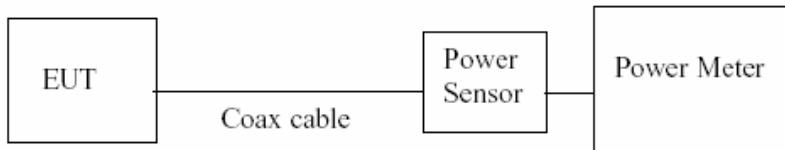


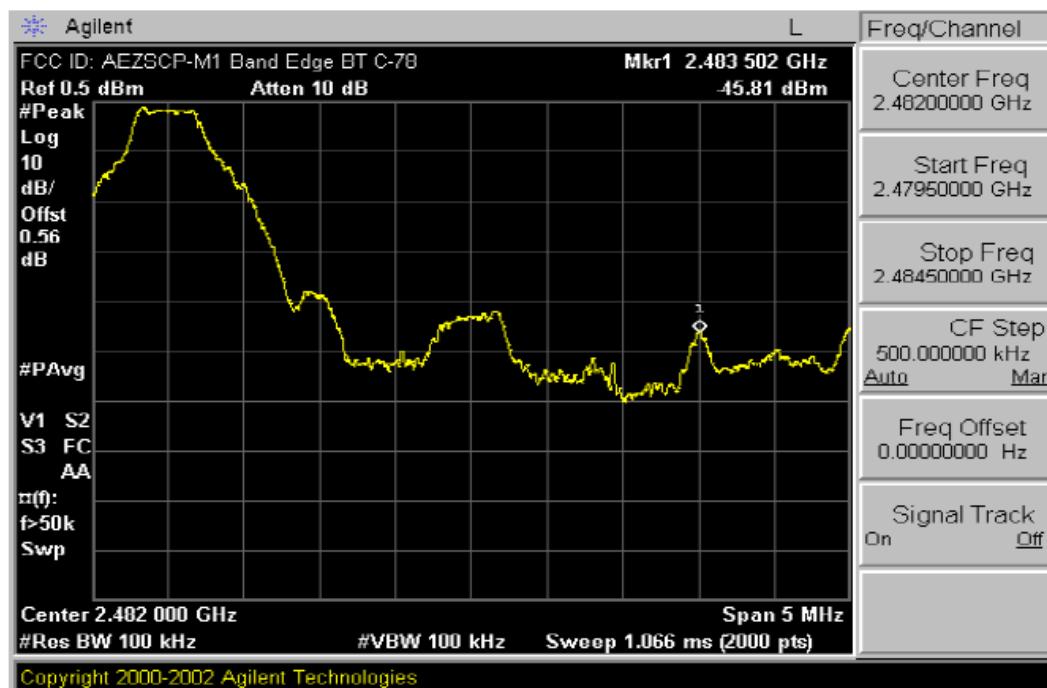
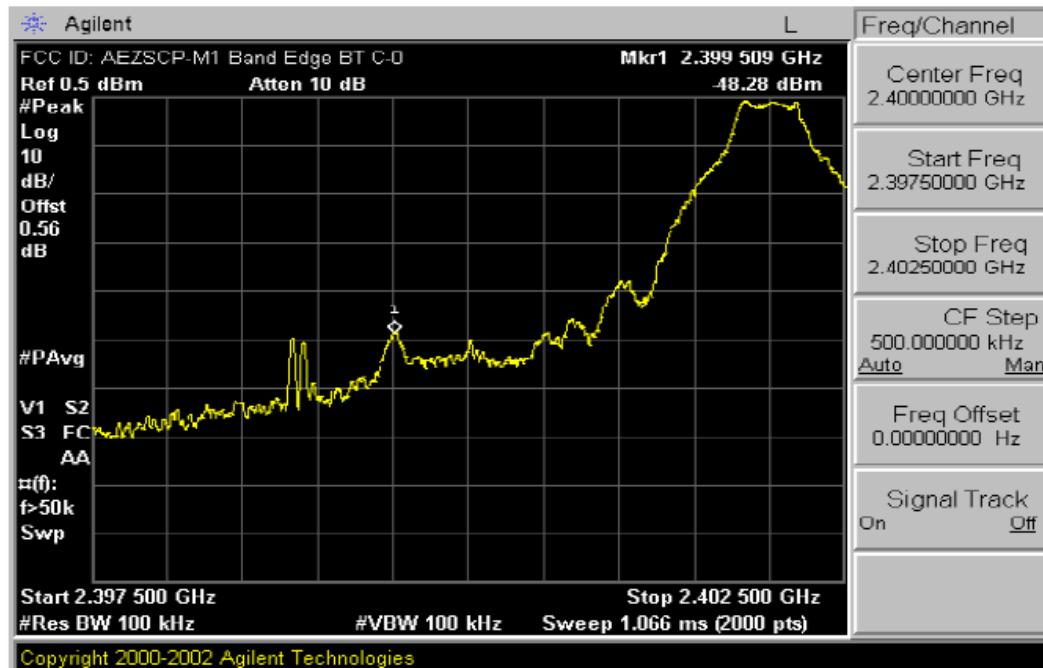
Figure A-2. Test Instrument & Measurement Setup

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Band Edge Compliance

§15.247 (d); RSS-210 (A8.5)

Measurement is taken at the highest point located outside of the emission bandwidth. **The maximum permissible emission level is 20 dBc. Any emission lying outside of the emission bandwidth and in a restricted band is subject to a limit of 500μV.**

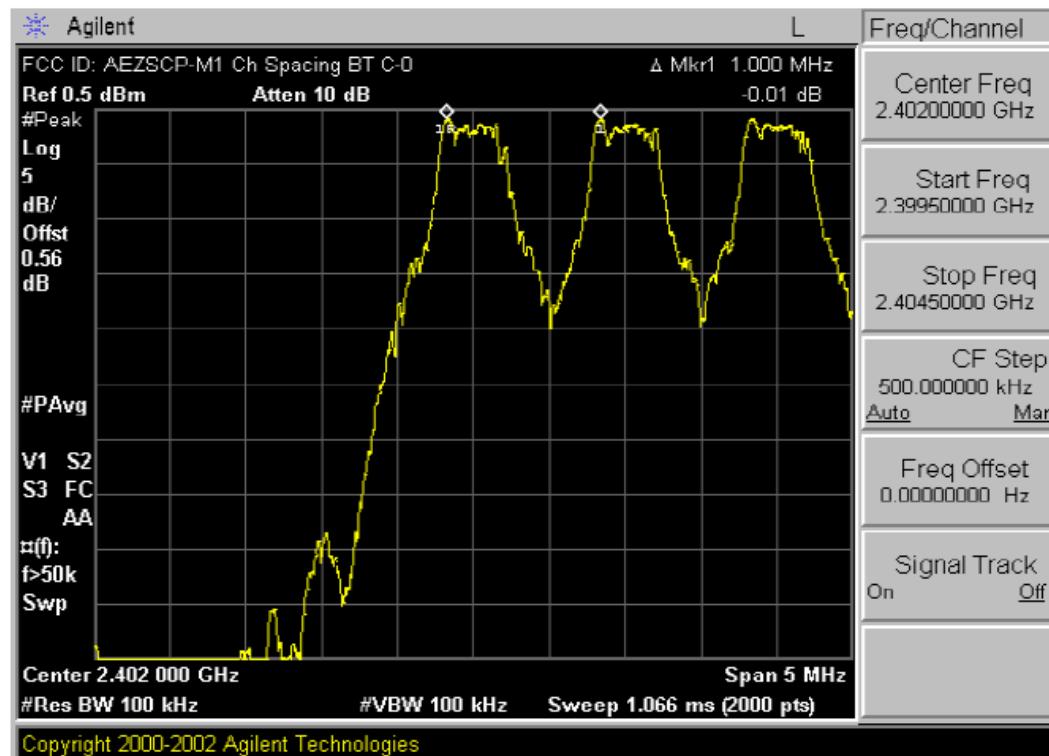


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Carrier Frequency Separation

\$15.247 (a)(1); RSS-210 (A8.1 (2))

Measurement is made with EUT operating in hopping mode. **The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW, which is equal to $(2/3) \times [975 \text{ kHz}] = 0.650 \text{ MHz}$.**

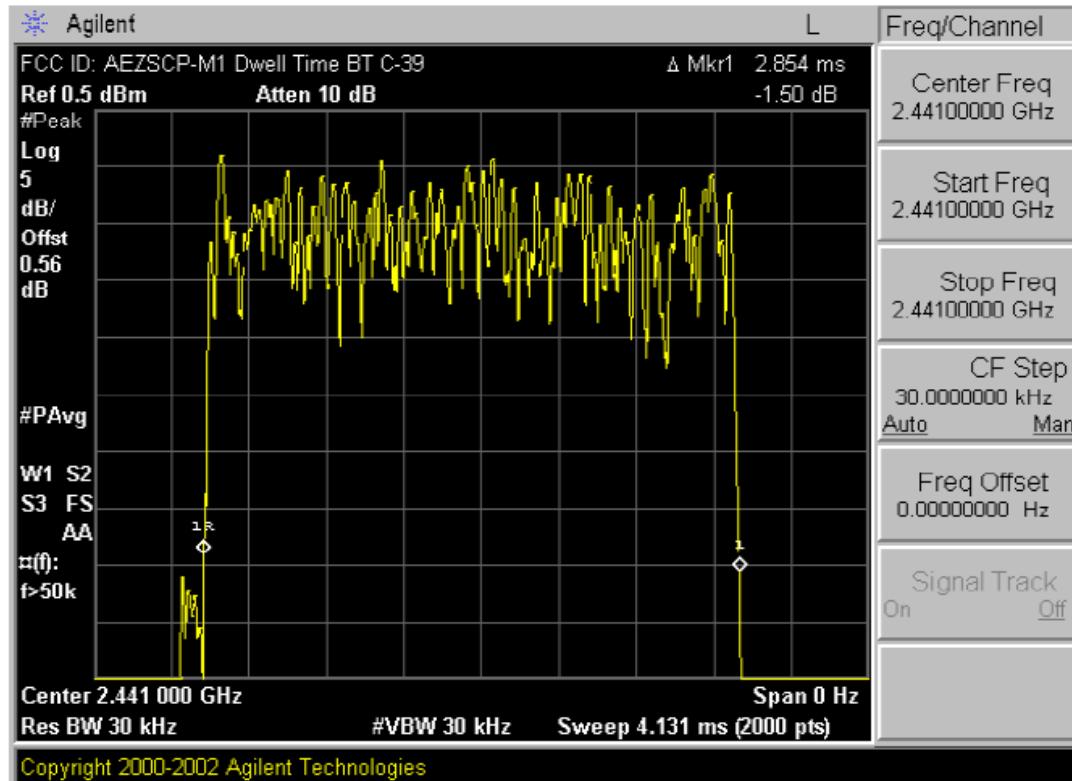


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Time of Occupancy

§15.247 (a)(1)(iii); RSS-210 (A8.1 (4))

Measurement is made while EUT is operating in hopping mode with the spectrum analyzer set to zero span. **The maximum permissible time of occupancy is 400 ms within the minimum time period required to hop through all channels.**

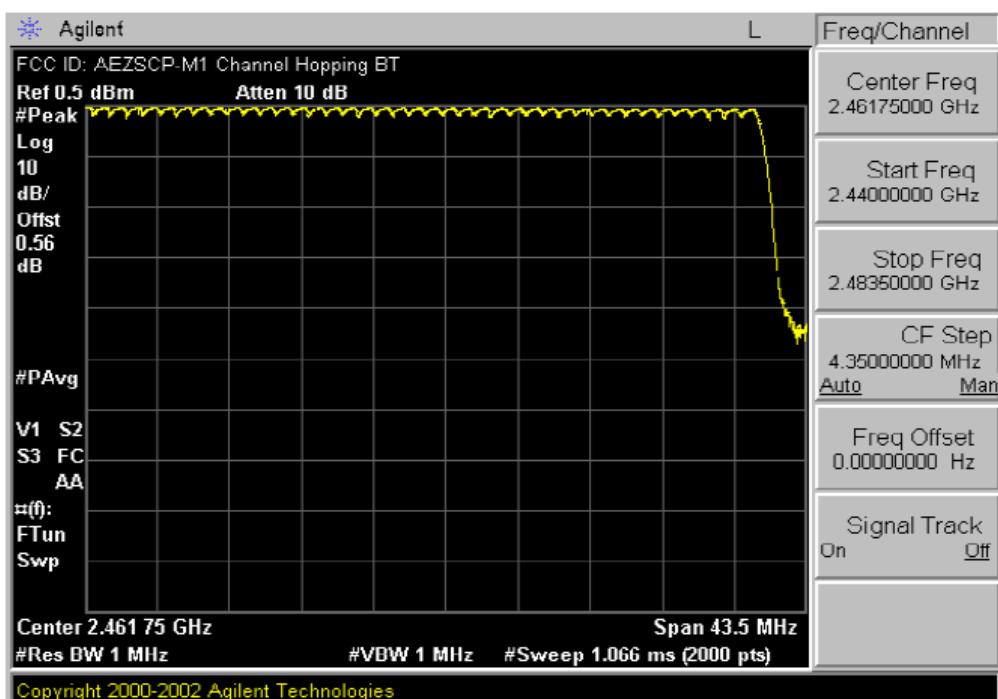


FCC ID: AEZSCP-M1		FCC Pt. 15.247 BLUETOOTH CERTIFICATION REPORT		Reviewed by: Quality Manager
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Number of Hopping Channels

§15.247 (a)(1)(iii); RSS-210 (A8.1 (4))

Measurement is made while EUT is operating in hopping mode. ***This frequency hopping system must employ a minimum of 15 hopping channels.***



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Radiated Harmonic Measurements

§15.247 (d) / §15.205 & §15.209; RSS-210 (A8.5)

The EUT was tested from 9kHz and up to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHZ. Above 1 GHz, average measurement was used, using RBW = 1MHz, VBW = 10Hz and linearly polarized horn antennas. All harmonics/spurs are at least 20dB below the highest emission in the authorized band using RBW = 100kHz. In addition, peak measurements were taken to ensure that the peak levels are not more than 20dB above the average limit. All out of band emissions, other than those created by the spreading sequence, data sequence, and the carrier modulation must not exceed the limits show in Table A-4 per Section 15.209.

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table A-4. Radiated Limits

TEST MEASUREMENT EQUIPMENT

Agilent E4448A	PSA Spectrum Analyzer 3Hz - 50GHz
HP 8566B	Spectrum Analyzer 100 Hz - 22GHz
HP 83017A	Microwave Preamplifier 40dB Gain (0.5 - 26.5GHz)
HP 8257D	PSG Analog Signal Generator (250kHz - 20GHz)
EMCO 3115	Horn Antenna (1 - 18GHz)
EMCO 3116	Horn Antenna (18GHz - 40GHz)
HP 8493B	10dB Attenuator
MicroCoax Cables	Low Loss Microwave Cables (1 - 26.5GHz)

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Radiated Harmonic Measurements (Cont'd)

§15.247 (d) / §15.205 & §15.209; RSS-210 (A8.5)

Mode: Bluetooth
 Measurement Distance: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0

Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dB μ V/m]	Field Strength [μ V/m]	Margin [dB]	
*	4804.00	-111.31	38.8	H	34.50	53.09	-19.50
*	7206.00	-135.00	42.4	H	14.41	5.25	-62.89
*	9608.00	-135.00	45.2	H	17.20	7.24	-60.10
*	12010.00	-135.00	46.6	H	18.63	8.54	-35.37

Table A-5. Harmonic Measurements

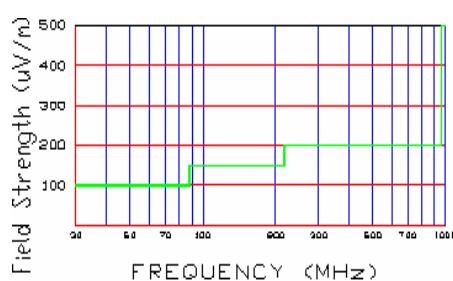


Figure A-3. Radiated limits at 3 meters.

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-4. (Note: * = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
4. The peak emissions above 1GHz are not more than 20dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < -135 dBm are below the analyzer floor level.
9. Above 1GHz, the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Harmonic Measurements (Cont'd)

§15.247 (d) / §15.205 & §15.209; RSS-210 (A8.5)

Mode: Bluetooth
 Measurement Distance: 3 Meters
 Operating Frequency: 2441MHz
 Channel: 39

Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dB μ V/m]	Field Strength [μ V/m]	Margin [dB]	
*	4882.00	-110.76	38.95	H	35.19	57.48	-18.81
*	7323.00	-135.00	42.67	H	14.67	5.41	-39.33
*	9764.00	-135.00	45.36	H	17.36	7.38	-60.16
*	12205.00	-135.00	46.68	H	18.68	8.59	-35.32

Table A-6. Harmonic Measurements

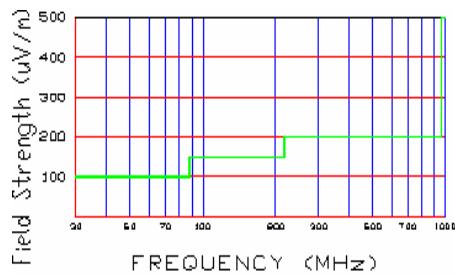


Figure A-4. Radiated limits at 3 meters.

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-4. (Note: * = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
4. The peak emissions above 1GHz are not more than 20dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < -135 dBm are below the analyzer floor level.
9. Above 1GHz, the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Harmonic Measurements (Cont'd)

§15.247 (d) / §15.205 & §15.209; RSS-210 (A8.5)

Mode: Bluetooth
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 78

Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dB μ V/m]	Field Strength [μ V/m]	Margin [dB]	
*	4960.00	-111.05	39.19	H	35.14	57.15	-18.86
*	7440.00	-135.00	43.01	H	15.01	5.63	-38.99
	9920.00	-135.00	45.67	H	17.67	7.65	-59.76
	12400.00	-135.00	46.61	H	18.61	8.52	-35.39

Table A-7. Harmonic Measurements

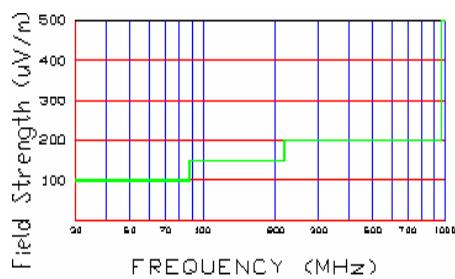


Figure A-5. Radiated limits at 3 meters.

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-4. (Note: * = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
4. The peak emissions above 1GHz are not more than 20dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < -135 dBm are below the analyzer floor level.
9. Above 1GHz, the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Restricted Band Measurements

§15.205 / §15.209; RSS-210 (A8.5)

- Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operations.

Mode: Bluetooth

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 78

Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dB μ V/m]	Field Strength [μ V/m]	Margin [dB]
2484.8	-101.43	30.81	H	36.38	65.92	-17.60
2486.6	-101.83	30.82	H	35.99	63.02	-17.99
2489.2	-101.53	30.83	H	36.30	65.31	-17.68
2492.3	-102.23	30.83	H	35.60	60.26	-18.38
2494.1	-101.93	30.85	H	35.92	62.52	-18.06
2496.8	-101.83	30.86	H	36.03	63.31	-17.95

Table A-8. Radiated Restricted Band Measurements at 3-meters

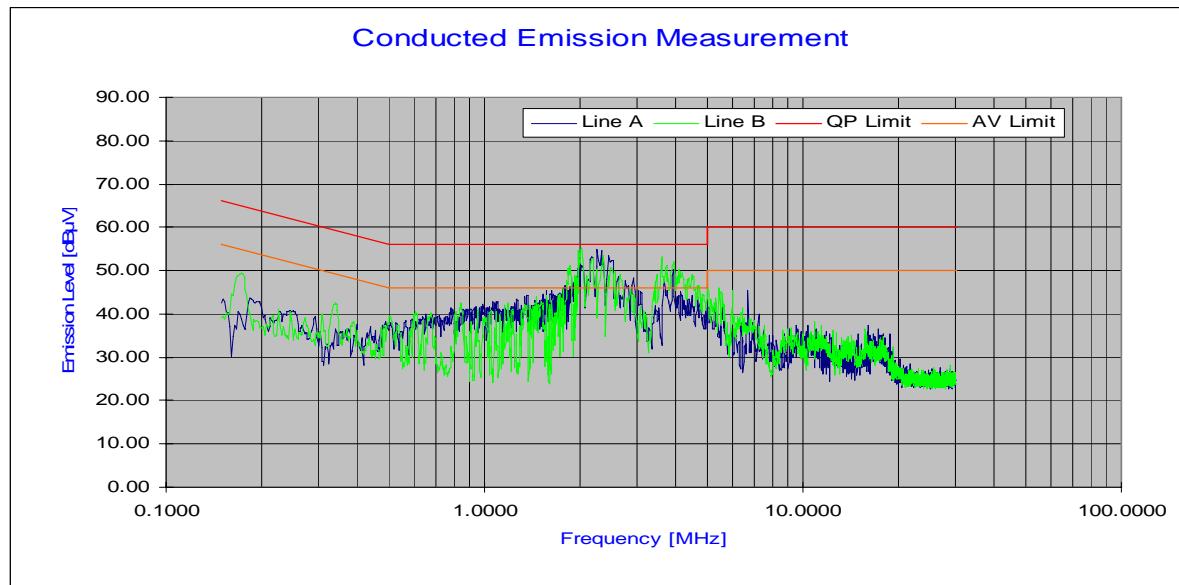
NOTES:

1. The antenna is manipulated through typical positions, polarity and length during the testing.
2. The EUT is supplied with the minimal AC voltage or/and a new/fully re-charged battery.
3. The spectrum is measured from 9kHz up to the 10th harmonic and the worst-case emissions are reported.
4. Above 1 GHz the limit is 500 μ V/m.
5. < -135 dBm is below the analyzer measurement floor level.
6. The peak emissions above 1 GHz are not more than 20 dB above the average limit.

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Line-Conducted Test Data

§15.207; RSS-Gen (7.2.2)



No.	Line	Frequency	Factor	QP	Limit	Margin	Average	Limit	Margin
		[MHz]	[dB]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dB]
1	A	2.218	7.40	51.12	56.00	-4.88	34.83	46.00	-11.17
2	A	2.362	7.41	33.47	56.00	-22.53	28.98	46.00	-17.02
3	A	2.191	7.40	34.08	56.00	-21.92	34.82	46.00	-11.18
4	A	1.979	7.39	31.32	56.00	-24.68	33.29	46.00	-12.71
5	A	2.087	7.40	32.30	56.00	-23.70	33.75	46.00	-12.25
6	A	3.859	7.48	31.07	56.00	-24.93	32.19	46.00	-13.81
7	A	2.625	7.43	32.39	56.00	-23.61	26.33	46.00	-19.67
8	A	2.885	7.44	29.74	56.00	-26.26	26.53	46.00	-19.47
9	A	1.941	7.39	30.79	56.00	-25.21	33.37	46.00	-12.63
10	A	3.702	7.47	30.90	56.00	-25.10	32.70	46.00	-13.30
11	B	2.037	7.39	52.01	56.00	-3.99	38.00	46.00	-8.00
12	B	1.978	7.39	41.89	56.00	-14.11	21.35	46.00	-24.65
13	B	2.360	7.41	44.58	56.00	-11.42	21.70	46.00	-24.30
14	B	3.614	7.47	44.95	56.00	-11.05	27.29	46.00	-18.71
15	B	2.242	7.41	49.09	56.00	-6.91	23.31	46.00	-22.69
16	B	3.973	7.48	47.21	56.00	-8.79	36.61	46.00	-9.39
17	B	1.877	7.38	43.93	56.00	-12.07	25.38	46.00	-20.62
18	B	3.776	7.47	47.78	56.00	-8.22	27.06	46.00	-18.94
19	B	2.491	7.42	41.72	56.00	-14.28	21.59	46.00	-24.41
20	B	4.543	7.50	42.31	56.00	-13.69	28.12	46.00	-17.88

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: None.

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EXHIBIT B – TEST SETUP PHOTOGRAPHS

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