FCC 47 CFR PART 15 SUBPART C

Report No.: SZ120207B03-RP

TEST REPORT

For

SOLAR POWERED BLUETOOTH® SPEAKERPHONE WITH BACKUP BATTERY
Model: CBHSOLCHRG

Brand: SCOSCHE

Test Report Number:

SZ120207B03-RP

Prepared for

Scosche Industries Inc 1550 Pacific Ave, Oxnard, CA 93033, USA

Prepared by

COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC.

No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

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Issued Date: March 16, 2012



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Revision History

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	SZ120207B03-RP	Initial Issue	ALL	Ziva Zhang

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1. TEST RESULT CERTIFICATION

Product: SOLAR POWERED BLUETOOTH® SPEAKERPHONE WITH BACKUP BATTERY

Model: CBHSOLCHRG

Brand: SCOSCHE

Tested: February 7~March 15, 2012

Applicant: Scosche Industries Inc

1550 Pacific Ave, Oxnard, CA 93033, USA

Sunitec Enterprise Co., Ltd

Manufacturer: No.2, Qilin Road 2, RunTang Ind, Dan-Keng Village Fu Min Community,

Guan-Lan Town, BaoAn District, Shenzhen Guangdong China

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
FCC 47 CFR Part 15 Subpart C	No non-compliance noted			

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209 and 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Tom Gan

Supervisor of EMC Dept.

Compliance Certification Service Inc.

Reviewed by:

Aven Zhou

Supervisor of Report Dept.

Compliance Certification Service Inc.

2. EUT DESCRIPTION

Product	SOLAR POWERED BLUETOOTH® SPEAKERPHONE WITH BACKUP BATTERY
Model Number	CBHSOLCHRG
Brand	SCOSCHE
Model Discrepancy	N/A
Identify Number	SZ120207B03-RP
USB Cable	Unshielded, 1.05m
Power Supply	DC12/24V supplied by the car charger or DC3.7V supplied by the battery
Received Date	February 7,2012
Frequency Range	2402 ~ 2480 MHz
Transmit Power	GFSK :7.53dBm 8DPSK :6.29dBm
Modulation Technique	FHSS (GFSK for 1Mbps, π /4-DQPSK for 2Mbps, 8DPSK for 3Mbps)
Number of Channels	79 Channels
Antenna Specification	F type PCB Layout Antenna with 0dBi gain(Max)
Temperature Range	20°C ~ +70°C

Note: This submittal(s) (test report) is intended for FCC ID: <u>IKQCBHSOLCHRG</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.
Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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The following test mode(s) were scanned during the preliminary test below 1G:

Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: Normal 12V	
Conducted Emission	Mode 2: Normal 24V	
Radiated Emission	Mode 1: TX	

Above 1G, Channel Low (2402MHz) · Mid (2441MHz) and High (2480MHz) were chosen for full testing for GFSK.

4. FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.4:2009, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

4.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC
Japan VCCI(C-3478, R-3135, T-652)
Canada INDUSTRY CANADA
Taiwan BSMI
Norway Nemko

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com

4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty	
Conducted emissions	9kHz~30MHz	+/- 3.18dB	
	30MHz ~ 200MHz	+/- 3.79dB	
Radiated emissions	200MHz ~1000MHz	+/- 3.62dB	
	Above 1000MHz	+/- 5.04dB	
Band Edges	+/-0.182 dB		

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

5. SETUP OF EQUIPMENT UNDER TEST

5.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

5.2 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	Notebook	992F2VG	62P7043	N/A	IBM	Shielded 1.50m	Unshielded 1.80m
2	DC Power	Q23003XE	018398	N/A	QJE	N/A	Unshielded 1.80m
3	IPOD	A1238	JQ8070LBY MV	N/A	IPOD	Shielded 1.20m	N/A

Notes:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6. FCC PART 15.247 REQUIREMENTS

6.1 20dB BANDWIDTH

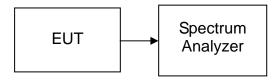
None; for reporting purpose only.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST CONFIGURATION



TEST PROCEDURE

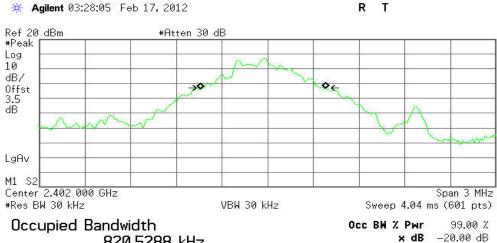
- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT, then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=30kHz, VBW=30kHz, Span=3MHz, Sweep = auto.
- 4. Mark the peak frequency and 20dB (upper and lower) frequency.
- 5. Repeat until all the test channels are investigated.

TEST RESULTS

No non-compliance noted

Test plot (GFSK)

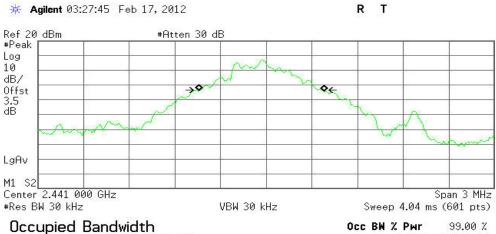
20dB Bandwidth (CH Low)



820.5288 kHz

Transmit Freq Error x dB Bandwidth -29.729 kHz 782.363 kHz

20dB Bandwidth (CH Mid)



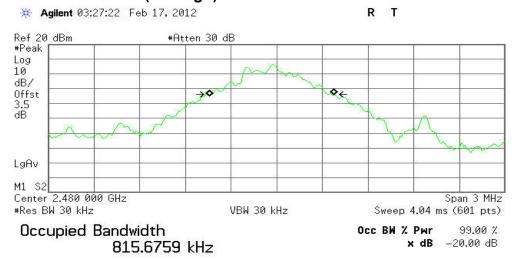
818.1924 kHz

x dB -20.00 dB

-31.313 kHz Transmit Freq Error 787.891 kHz x dB Bandwidth

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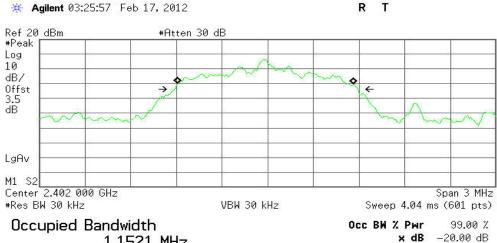
20dB Bandwidth (CH High)



Transmit Freq Error -31.935 kHz 786.938 kHz х dB Bandwidth

Test plot (8DPSK)

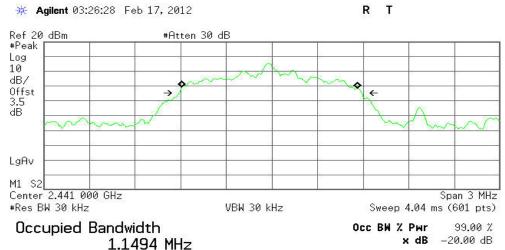
20dB Bandwidth (CH Low)



1.1521 MHz

Transmit Freq Error x dB Bandwidth -13.835 kHz 1.205 MHz

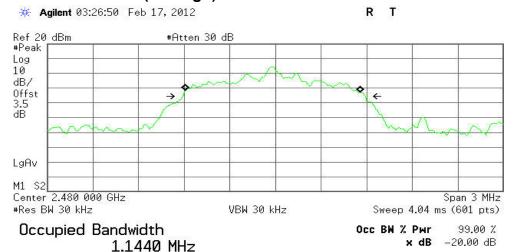
20dB Bandwidth (CH Mid)



-14.006 kHz Transmit Freq Error 1.201 MHz x dB Bandwidth



20dB Bandwidth (CH High)



Transmit Freq Error x dB Bandwidth

-15.959 kHz 1.201 MHz

6.2 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

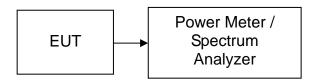
- 1. For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.
- 3. The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

MEASUREMENT EQUIPMENT USED

Name of Equipment	me of Equipment Manufacturer Model		Serial Number	Last Calibration	Due Calibration
Power Meter	Anritsu	ML2487A	6K00001491	03/19/2011	03/19/2012
Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted

Test Data

GFSK

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	4.03	3.50	7.53	0.00566		PASS
Mid	2441	3.57	3.50	7.07	0.00509	1	PASS
High	2480	2.94	3.50	6.44	0.00441		PASS

8DPSK

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	2.79	3.50	6.29	0.00426		PASS
Mid	2441	2.40	3.50	5.90	0.00389	1	PASS
High	2480	1.61	3.50	5.11	0.00324		PASS

6.3 PEAK POWER SPECTRAL DENSITY

LIMIT

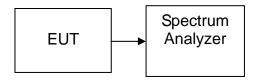
- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 4. Record the max. reading.
- 5. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

Not applicable. Since EUT is the Bluetooth device.

6.4 BAND EDGES MEASUREMENT

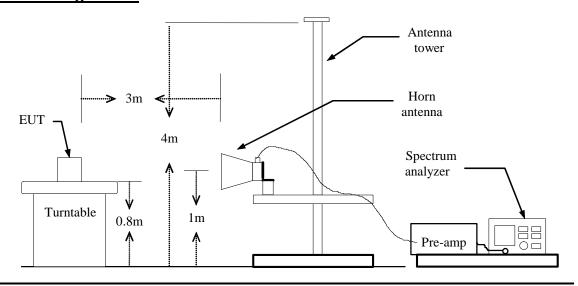
LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

MEASUREMENT EQUIPMENT USED

Radiated Emission Test Site 966(2)								
Name of Equipment	Manufacturer Model Number S		Serial Number	Last Calibration	Due Calibration			
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012			
Amplifier	MITEQ	AM-1604-3000	1411843	03/18/2011	03/18/2012			
Turn Table	EMCO	2081-1.21	N/A	N.C.R	N.C.R			
Controller	CT	N/A	N/A	N.C.R	N.C.R			
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2011	03/18/2012			
Bilog Antenna	SCHAFFNER	CBL6143	5082	06/03/2011	06/03/2012			
Horn Antenna	SCHWARZBECK	BBHA9120D	D286	03/19/2011	03/19/2012			
Loop Antenna	$A \setminus R \setminus A$	PLA-1030/B	1029	03/19/2011	03/19/2012			
Temp. / Humidity Meter	VICTOR	VC230	N/A	03/31/2011	03/31/2012			
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R			
Test S/W	FARAD		LZ-RF / CCS	-SZ-3A2				

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=510Hz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

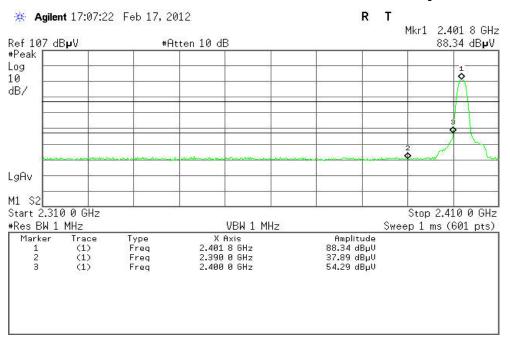
TEST RESULTS

Refer to attach spectrum analyzer data chart.

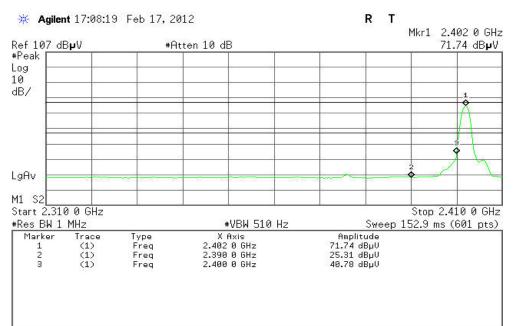
Test Data (GFSK)

Band Edges (CH-Low)

Detector mode: Peak Polarity: Vertical



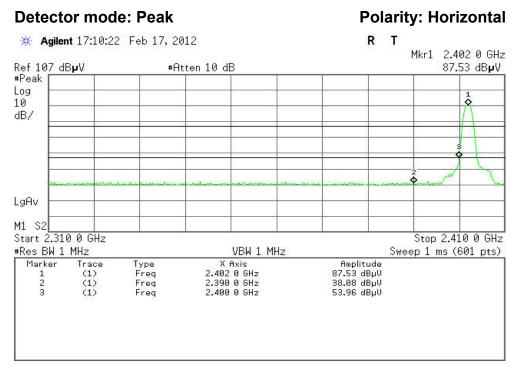
Detector mode: Average



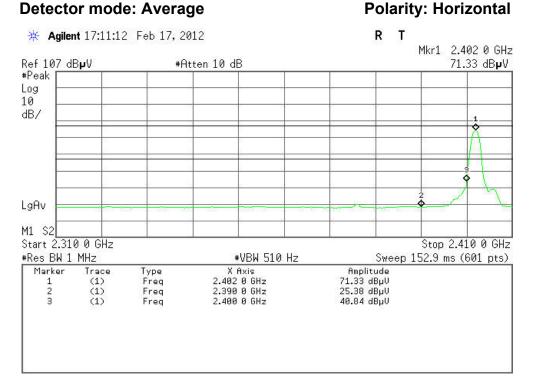
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Polarity: Vertical

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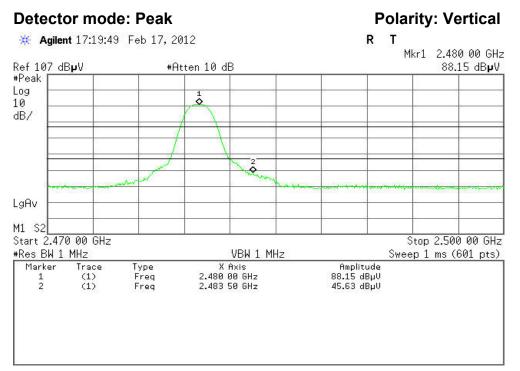


Detector mode: Average

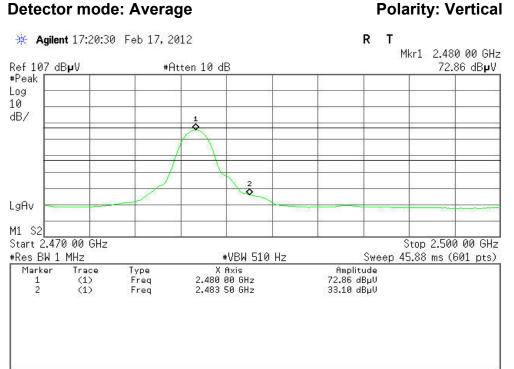




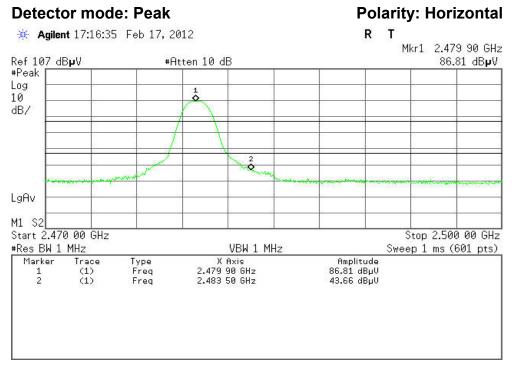
Band Edges (CH-High)



Detector mode: Average

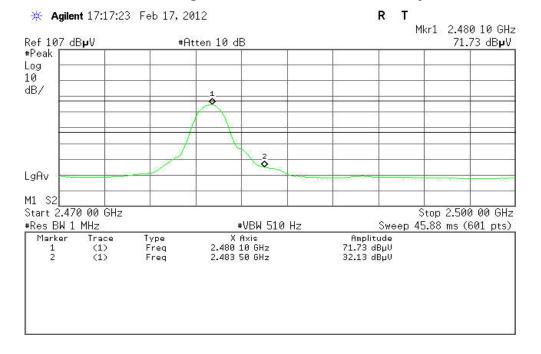


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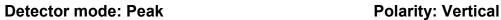
Detector mode: Average

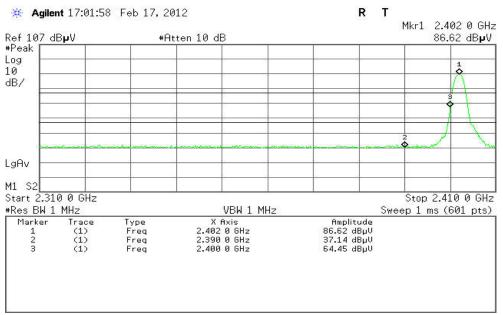
Polarity: Horizontal



Test Data (8DPSK)

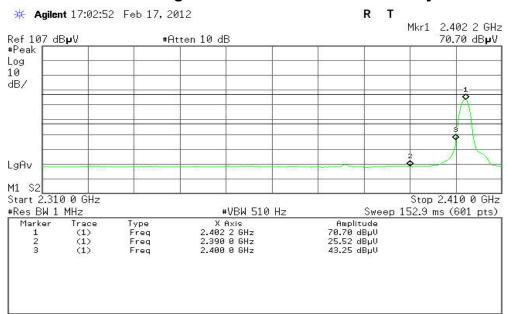
Band Edges (CH-Low)





Detector mode: Average

Polarity: Vertical

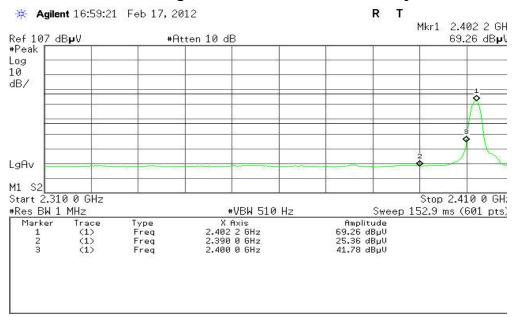


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Polarity: Horizontal Detector mode: Peak * Agilent 16:58:24 Feb 17, 2012 Mkr1 2.402 0 GHz 84.76 dB**µ**V Ref 107 dB**µ**V #Peak #Atten 10 dB Log 10 dB/ LgAv M1 S2 Stop 2.410 0 GHz Start 2.310 0 GHz #Res BW 1 MHz VBW 1 MHz Sweep 1 ms (601 pts) Trace (1) (1) (1) X Axis 2.402 0 GHz 2.390 0 GHz 2.400 0 GHz Type Freq Freq Freq Amplitude 84.76 dBµV 36.80 dBµV Marker 62.94 dBµV

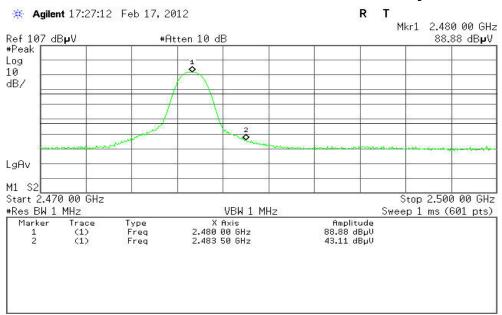
Detector mode: Average

Polarity: Horizontal



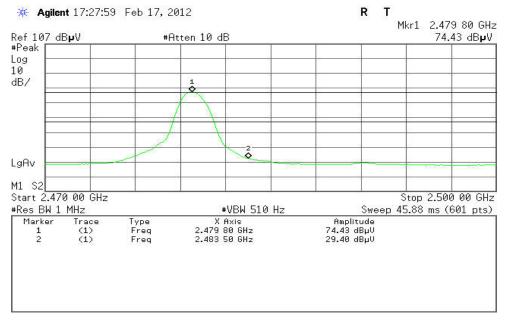
Band Edges (CH-High)

Detector mode: Peak Polarity: Vertical

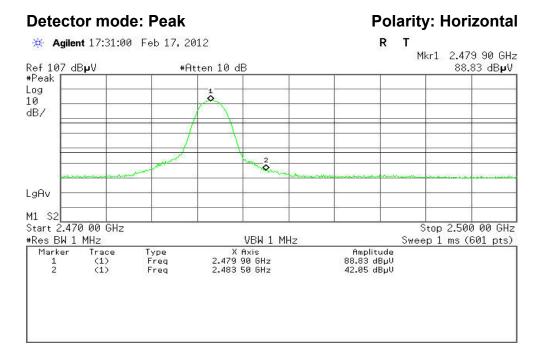


Detector mode: Average

Polarity: Vertical

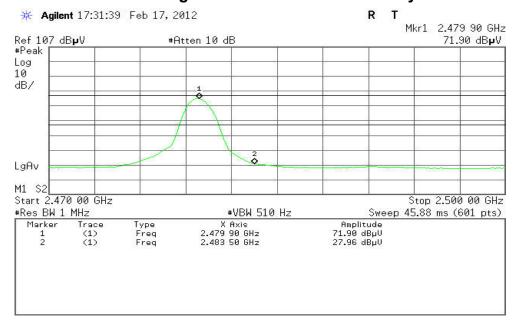


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Detector mode: Average

Polarity: Horizontal



6.5 FREQUENCY SEPARATION

LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

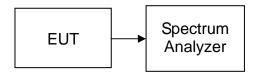
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MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW=30kHz, VBW=30kHz, Adjust Span to 4 MHz, Sweep = auto.
- 5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

TEST RESULTS

No non-compliance noted

Test Data

GFSK

Channel Separation (MHz) Two-thirds of the 20 dB Bandwidth (kHz)			Channel Separation Limit	Result
	1.000	525.261	> Two-thirds of the 20 dB Bandwidth	Pass

8DPSK

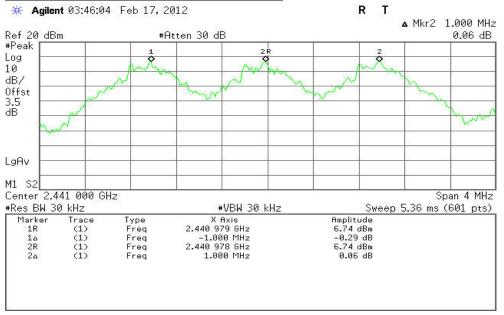
Channel Separation (MHz) Two-thirds of the 20 dB Bandwidth (kHz)		Channel Separation Limit	Result
1.000	803.333	> Two-thirds of the 20 dB Bandwidth	Pass

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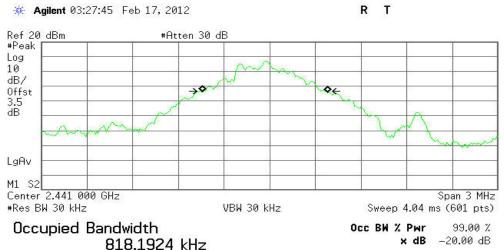
GFSK

Test Plot

Measurement of Channel Separation



20 dB bandwidth(CH Mid)

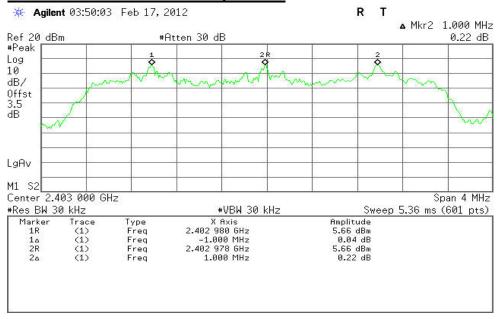


Transmit Freq Error -31.313 kHz x dB Bandwidth 787.891 kHz

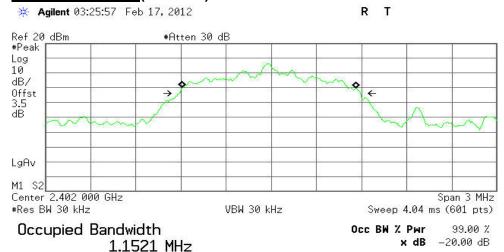
8DPSK

Test Plot

Measurement of Channel Separation



20 dB bandwidth(CH Low)



Transmit Freq Error -13.835 kHz x dB Bandwidth 1.205 MHz

6.6 NUMBER OF HOPPING FREQUENCY

LIMIT

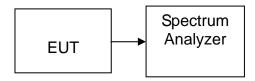
According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz, Sweep = 1ms and Start=2441.5MHz, Stop = 2483MHz, Sweep = 1ms.
- 4. Set the spectrum analyzer as RBW, VBW=300kHz,
- 5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

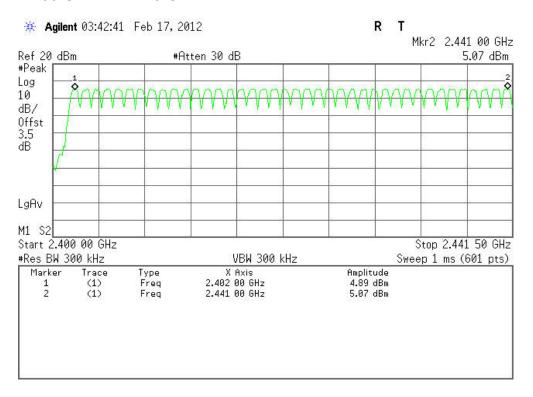
Test Data

Result (No. of CH)	Limit (No. of CH)	Result	
79	>15	PASS	

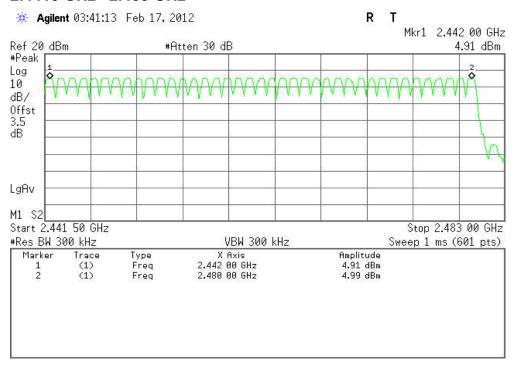
Test Plot (GFSK)

Channel Number

2.400 GHz - 2.4415 GHz



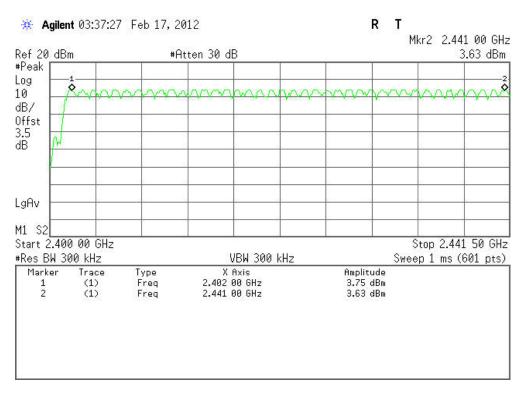
2.4415 GHz -2.483 GHz



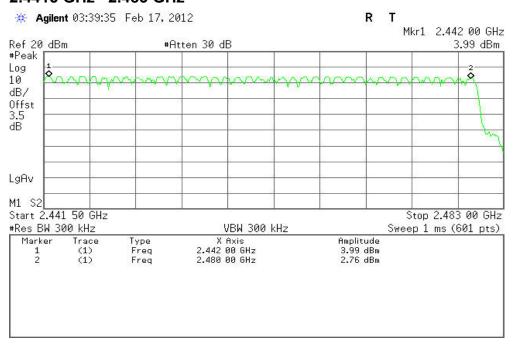
Test Plot (8DPSK)

Channel Number

2.400 GHz - 2.4415 GHz



2.4415 GHz -2.483 GHz



6.7 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

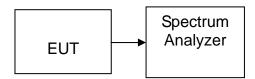
According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data

GFSK

DH 1

CH Mid: 0.507* (1600/2)/79*31.6 = 162.240 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	0.507	162.240	31.60	400.00	PASS

DH 3

CH Mid: $1.760^* (1600/4)/79 * 31.6 = 281.600 (ms)$

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	1.760	281.600	31.60	400.00	PASS

<u>DH 5</u>

CH Mid: 3.008* (1600/6)/79 * 31.6 = 320.853 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	3.008	320.853	31.60	400.00	PASS

Test Data

8DPSK

<u>DH 1</u>

CH Mid: 0.518* (1600/2)/79*31.6 = 165.760 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	0.518	165.760	31.60	400.00	PASS

<u>DH 3</u>

CH Mid: $1.770^* (1600/4)/79 * 31.6 = 283.200 (ms)$

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	1.770	283.200	31.60	400.00	PASS

<u>DH 5</u>

CH Mid: 3.025* (1600/6)/79* 31.6 = 322.667 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	3.025	322.667	31.60	400.00	PASS

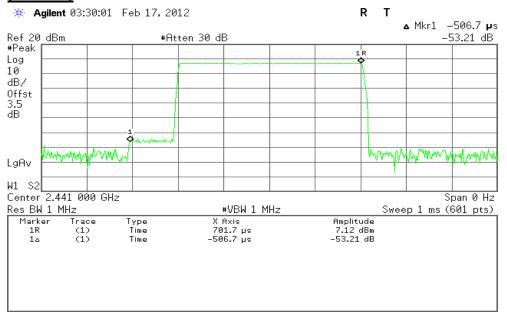
Report No.: SZ120207B03-RP

Test Plot

GFSK

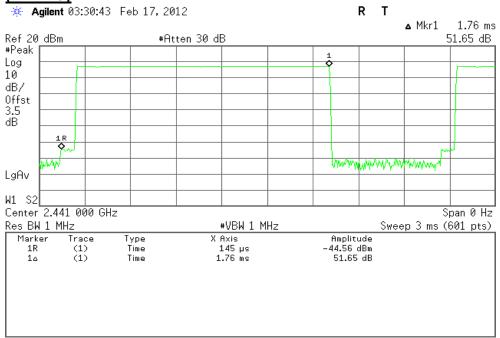
DH 1

(CH Mid)

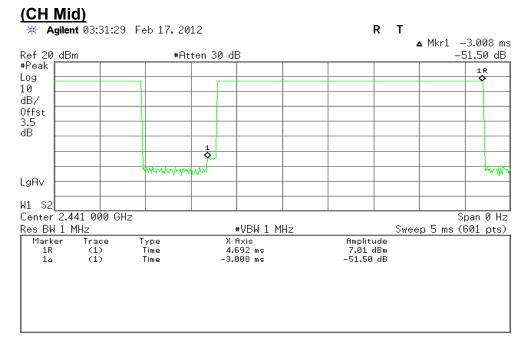


DH 3

(CH Mid)



<u>DH 5</u>

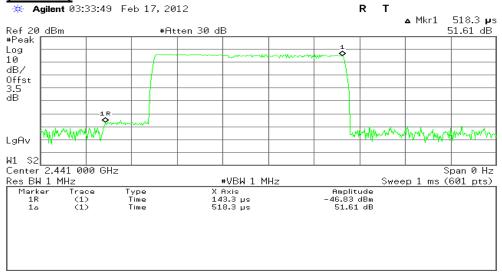


Report No.: SZ120207B03-RP

Test Plot 8DPSK

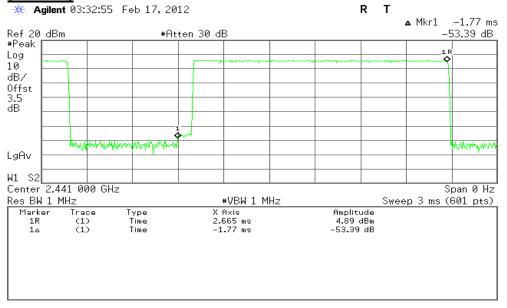
DH₁

(CH Mid)



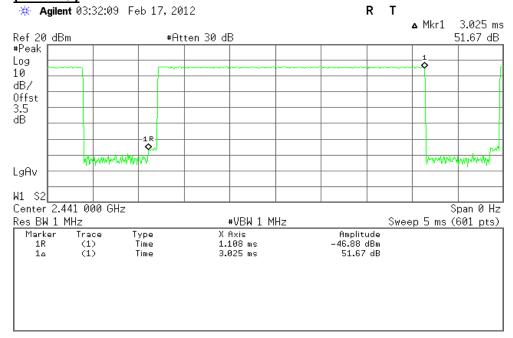
DH 3

(CH Mid)



DH 5

(CH Mid)



6.8 SPURIOUS EMISSIONS

6.8.1. Conducted Measurement

LIMIT

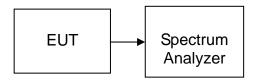
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

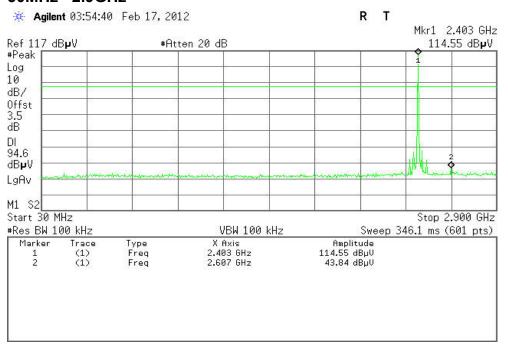
TEST RESULTS

No non-compliance noted

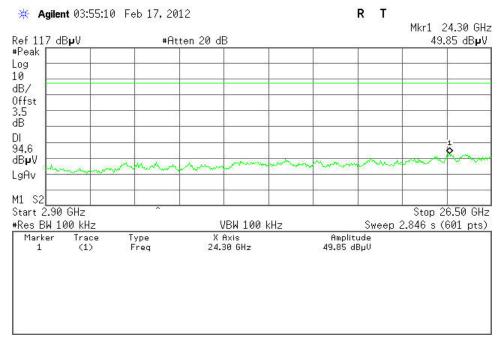
Test Plot (GFSK)

CH Low

30MHz ~2.9GHz

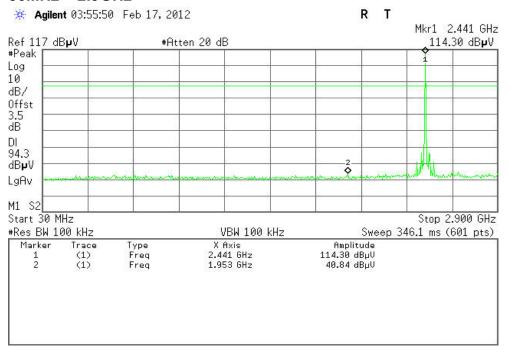


2.9MHz ~26.5GHz

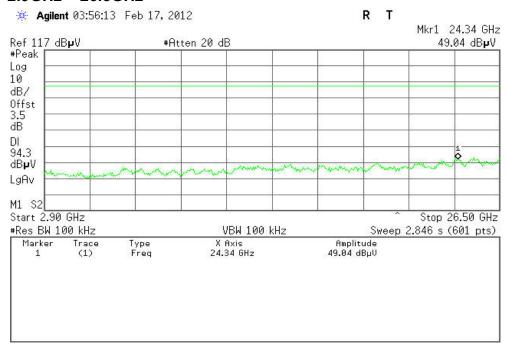


CH Mid

30MHz ~ 2.9GHz

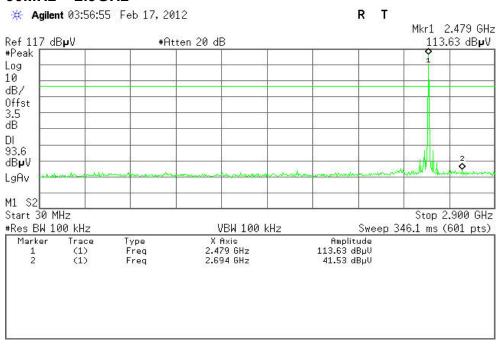


2.9GHz ~ 26.5GHz

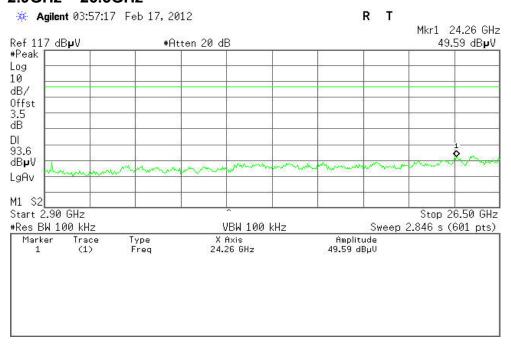


CH High

30MHz ~ 2.9GHz



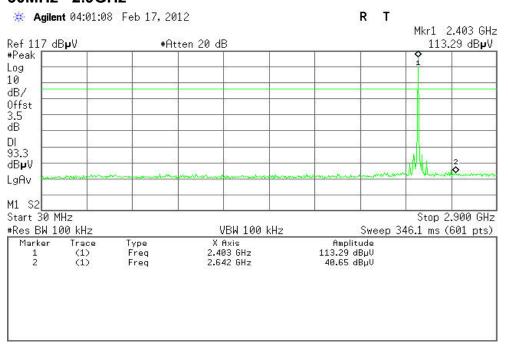
2.9GHz ~ 26.5GHz



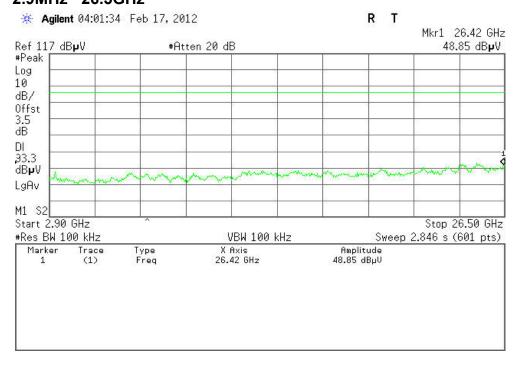
Test Plot (8DPSK)

CH Low

30MHz ~2.9GHz

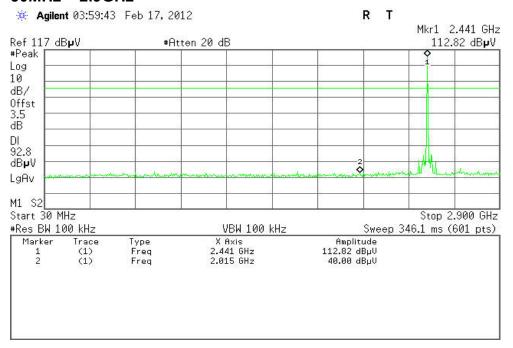


2.9MHz ~26.5GHz

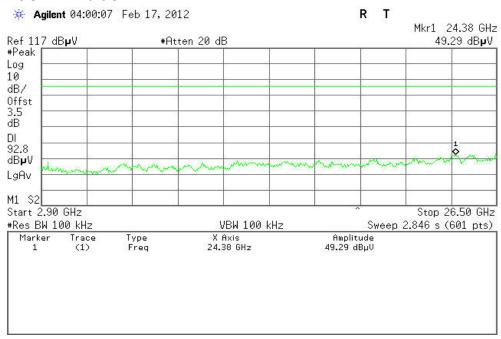


CH Mid

30MHz ~ 2.9GHz

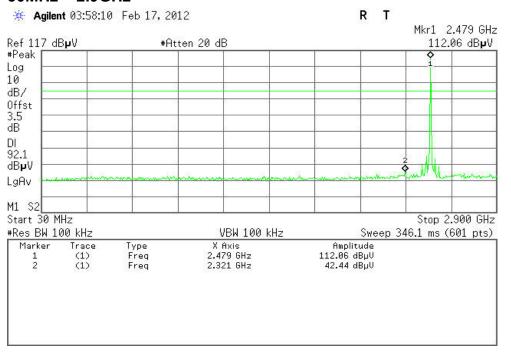


2.9GHz ~ 26.5GHz

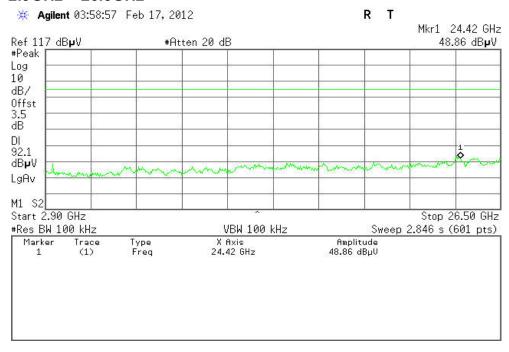


CH High

30MHz ~ 2.9GHz



2.9GHz ~ 26.5GHz



6.8.2. Radiated Emissions

LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/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: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)		
30-88	100	40		
88-216	150	43.5		
216-960	200	46		
Above 960	500	54		

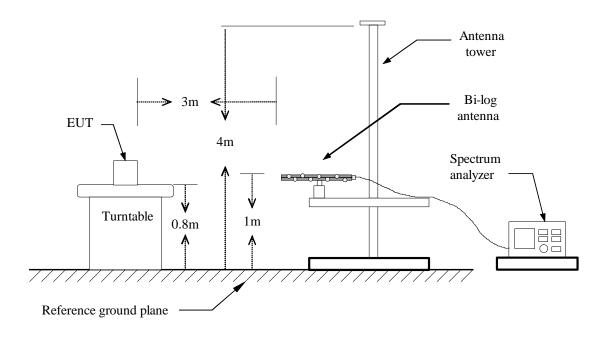
MEASUREMENT EQUIPMENT USED

	Radiated Emission Test Site 966(2)							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration			
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/19/2011	03/19/2012			
Amplifier	MITEQ	AM-1604-3000	1411843	03/18/2011	03/18/2012			
Turn Table	EMCO	2081-1.21	N/A	N.C.R	N.C.R			
Controller	CT	N/A	N/A	N.C.R	N.C.R			
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2011	03/18/2012			
Bilog Antenna	SCHAFFNER	CBL6143	5082	06/03/2011	06/03/2012			
Horn Antenna	SCHWARZBECK	BBHA9120D	D286	03/19/2011	03/19/2012			
Loop Antenna	A、R、A	PLA-1030/B	1029	03/19/2011	03/19/2012			
Temp. / Humidity Meter	VICTOR	VC230	N/A	03/31/2011	03/31/2012			
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R			
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2						

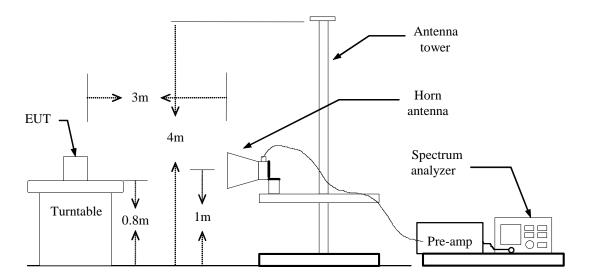
Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration

Below 1 GHz



Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

Below 1 GHz

Operation Mode: TX Test Date: February 15,2012

Temperature: 24°C **Tested by:** Sunday Hu **Humidity:** 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
256.3333	38.07	-19.98	18.09	46.00	-27.91	V	QP
511.7667	32.72	-13.47	19.25	46.00	-26.75	V	QP
660.5000	33.79	-11.98	21.81	46.00	-24.19	V	QP
744.5667	35.23	-10.86	24.37	46.00	-21.63	V	QP
768.8167	34.69	-10.64	24.05	46.00	-21.95	V	QP
962.8167	33.78	-8.63	25.15	54.00	-28.85	V	QP
623.3167	42.36	-12.16	30.20	46.00	-15.80	Н	QP
655.6500	45.22	-12.01	33.21	46.00	-12.79	Н	QP
689.6000	46.75	-11.64	35.11	46.00	-10.89	Н	QP
720.3167	45.63	-11.50	34.13	46.00	-11.87	Н	QP
783.3667	43.20	-10.22	32.98	46.00	-13.02	Н	QP
848.0333	40.24	-9.50	30.74	46.00	-15.26	Н	QP

^{**}Remark: No emission found between lowest internal used/generated frequency to 30MHz. **Notes:**

- 1. Measuring frequencies from 9kHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30MHz to 1GHz were made with an instrument using Peak/Quasi-peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

5. Frequency (MHz). = Emission frequency in MHz

Reading (dBuV) = Receiver reading

Correction Factor(dB/m) = Antenna factor + Cable loss – Amplifier gain Actual FS (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin(dB) = Measured (dBuV/m) - Limits (dBuV/m)

Antenna Pole(V/H) = Current carrying line of reading

Above 1 GHz

<u>GFSK</u>

Operation TX(CH Low) Test Date: March 14, 2012

Temperature: 24°C **Tested by:** Sunday Hu

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3235.0000	48.56	-5.42	43.14	74.00	-30.86	V	Peak
3580.0000	46.39	-3.93	42.46	74.00	-31.54	V	Peak
5890.0000	45.20	2.74	47.94	74.00	-26.06	V	Peak
6265.0000	44.68	3.77	48.45	74.00	-25.55	V	Peak
6925.0000	44.96	4.36	49.32	74.00	-24.68	V	Peak
7735.0000	46.30	5.97	52.27	74.00	-21.73	V	Peak
1225.0000	49.92	-11.29	38.63	74.00	-35.37	Н	Peak
2140.0000	48.52	-9.32	39.20	74.00	-34.80	Н	Peak
3160.0000	46.33	-5.58	40.75	74.00	-33.25	Н	Peak
3325.0000	47.05	-5.23	41.82	74.00	-32.18	Н	Peak
4285.0000	45.81	-2.65	43.16	74.00	-30.84	Н	Peak
4855.0000	45.25	-0.47	44.78	74.00	-29.22	Н	Peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms. b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading AV. = Average Reading

Remark = Mark Peak Reading or Average Reading

Report No.: SZ120207B03-RP

Operation Mode: TX(CH Mid) Test Date: March 14, 2012

24°C Tested by: Sunday Hu Temperature: Ver. / Hor. **Humidity:** 52% RH **Polarity:**

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1525.0000	48.69	-10.31	38.38	74.00	-35.62	V	Peak
2125.0000	47.86	-9.29	38.57	74.00	-35.43	V	Peak
3235.0000	46.75	-5.42	41.33	74.00	-32.67	V	Peak
4090.0000	45.44	-3.28	42.16	74.00	-31.84	V	Peak
4825.0000	45.27	-0.57	44.70	74.00	-29.30	V	Peak
6250.0000	44.94	3.79	48.73	74.00	-25.27	V	Peak
1420.0000	48.32	-10.26	38.06	74.00	-35.94	Н	Peak
2170.0000	48.35	-9.38	38.97	74.00	-35.03	Н	AVG
3160.0000	47.06	-5.58	41.48	74.00	-32.52	Н	Peak
3745.0000	46.23	-3.86	42.37	74.00	-31.63	Н	Peak
4285.0000	45.93	-2.65	43.28	74.00	-30.72	Н	Peak
4900.0000	45.31	-0.33	44.98	74.00	-29.02	Н	Peak
1420.0000	48.32	-10.26	38.06	74.00	-35.94	Н	Peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading (dBµV/m) =Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

= Limit stated in standard Limit (dBµV/m)

Margin (dB) = Result ($dB\mu V/m$)- Limit ($dB\mu V/m$)

Pk = Peak Reading AV. = Average Reading

Remark = Mark Peak Reading or Average Reading Report No.: SZ120207B03-RP

Operation Mode: TX(CH High) Test Date: March 14, 2012

24°C Temperature: Tested by: Sunday Hu

Ver. / Hor. **Humidity:** 52% RH **Polarity:**

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1675.0000	48.28	-10.24	38.04	74.00	-35.96	V	Peak
2545.0000	48.27	-9.26	39.01	74.00	-34.99	V	Peak
2845.0000	47.70	-7.01	40.69	74.00	-33.31	V	Peak
3760.0000	45.67	-3.86	41.81	74.00	-32.19	V	Peak
4360.0000	45.80	-2.39	43.41	74.00	-30.59	V	Peak
4900.0000	45.08	-0.33	44.75	74.00	-29.25	V	Peak
2860.0000	47.57	-6.91	40.66	74.00	-33.34	Н	Peak
3670.0000	45.53	-3.83	41.70	74.00	-32.30	Н	Peak
4225.0000	45.31	-2.85	42.46	74.00	-31.54	Н	Peak
4840.0000	44.89	-0.52	44.37	74.00	-29.63	Н	Peak
5470.0000	45.43	1.18	46.61	74.00	-27.39	Н	Peak
5890.0000	45.72	2.74	48.46	74.00	-25.54	Н	Peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading (dBµV/m) =Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

Limit (dBµV/m) = Limit stated in standard

Margin (dB) = Result ($dB\mu V/m$)- Limit ($dB\mu V/m$)

Pk = Peak Reading AV. = Average Reading

Remark = Mark Peak Reading or Average Reading 8DPSK

Operation Mode: TX(CH Low) Test Date: March 14, 2012

Temperature: 24°C **Tested by:** Sunday Hu

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2140.0000	48.23	-9.32	38.91	74.00	-35.09	V	Peak
3205.0000	46.77	-5.48	41.29	74.00	-32.71	V	Peak
4165.0000	46.47	-3.04	43.43	74.00	-30.57	V	Peak
4705.0000	44.52	-1.18	43.34	74.00	-30.66	V	Peak
5965.0000	44.46	2.87	47.33	74.00	-26.67	V	Peak
6790.0000	45.71	4.29	50.00	74.00	-24.00	V	Peak
1165.0000	49.56	-11.51	38.05	74.00	-35.95	Н	Peak
3625.0000	46.09	-3.81	42.28	74.00	-31.72	Н	Peak
3880.0000	47.25	-3.76	43.49	74.00	-30.51	Н	Peak
4270.0000	46.12	-2.70	43.42	74.00	-30.58	Н	Peak
5245.0000	44.69	0.68	45.37	74.00	-28.63	Н	Peak
5740.0000	44.70	2.26	46.96	74.00	-27.04	Н	Peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading (dBµV/m) = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading

Remark = Mark Peak Reading or Average Reading

Operation Mode: TX(CH Mid) Test Date: March 14, 2012

Temperature: 24°C Tested by: Sunday Hu

Humidity: 52% RH Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1675.0000	48.33	-10.24	38.09	74.00	-35.91	V	Peak
2845.0000	47.06	-7.01	40.05	74.00	-33.95	V	Peak
3625.0000	45.80	-3.81	41.99	74.00	-32.01	V	Peak
4765.0000	44.57	-0.84	43.73	74.00	-30.27	V	Peak
5425.0000	44.45	1.07	45.52	74.00	-28.48	V	Peak
5800.0000	45.73	2.59	48.32	74.00	-25.68	V	Peak
1195.0000	49.92	-11.43	38.49	74.00	-35.51	Н	Peak
2140.0000	48.84	-9.32	39.52	74.00	-34.48	Η	Peak
3235.0000	46.36	-5.42	40.94	74.00	-33.06	Η	Peak
3880.0000	46.71	-3.76	42.95	74.00	-31.05	Н	Peak
4825.0000	45.26	-0.57	44.69	74.00	-29.31	Н	Peak
5065.0000	45.50	0.18	45.68	74.00	-28.32	Н	Peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading

Remark = Mark Peak Reading or Average Reading

Operation Mode: TX(CH High) Test Date: March 14, 2012

Temperature:24 °CTested by:Sunday HuHumidity:52% RHPolarity:Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1420.0000	48.01	-10.26	37.75	74.00	-36.25	V	Peak
3505.0000	45.83	-4.40	41.43	74.00	-32.57	V	Peak
4045.0000	45.64	-3.43	42.21	74.00	-31.79	V	Peak
4255.0000	45.01	-2.75	42.26	74.00	-31.74	V	Peak
5035.0000	45.48	0.10	45.58	74.00	-28.42	V	Peak
6280.0000	44.81	3.76	48.57	74.00	-25.43	V	Peak
1690.0000	47.39	-10.23	37.16	74.00	-36.84	Н	Peak
2995.0000	46.71	-5.99	40.72	74.00	-33.28	Н	Peak
3610.0000	45.89	-3.80	42.09	74.00	-31.91	Н	Peak
4420.0000	45.40	-2.21	43.19	74.00	-30.81	Н	Peak
4720.0000	44.49	-1.09	43.40	74.00	-30.60	Н	Peak
5350.0000	45.18	0.91	46.09	74.00	-27.91	Н	Peak
1690.0000	47.39	-10.23	37.16	74.00	-36.84	Н	AVG

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading

Remark = Mark Peak Reading or Average Reading

6.9 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Eroguanov Bango (MUz)	Limits (dBµV)				
Frequency Range (MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

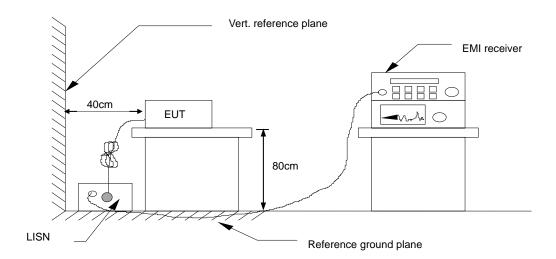
Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

MEASUREMENT EQUIPMENT USED

Conducted Emission Test Site							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration		
ESCI EMI TEST RECEIVE.ESCI	ROHDE&SCHWARZ	ESCI	100783	03/19/2011	03/19/2012		
LISN	SCHAFFNER	NNB42	2001/001	05/26/2011	05/26/2012		
LISN	EMCO	3825/2	8901-1459	03/19/2011	03/19/2012		
Temp. / Humidity Meter	VICTOR	VC230	N/A	03/31/2011	03/31/2012		
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE					

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Model No.	CBHSOLCHRG	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 2
Tested by	Persist Zou	Line	L1/L2

(The chart below shows the highest readings taken from the final data.)

(The chart below shows the highest readings taken from the linal data.)										
Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Line (L1/L2))
0.1900	27.42	27.00	11.52	38.94	38.52	64.03	54.04	-25.09	-15.52	L1
0.4780	28.98	28.36	11.51	40.49	39.87	56.37	46.37	-15.88	-6.50	L1
0.5740	29.53	28.95	11.51	41.04	40.46	56.00	46.00	-14.96	-5.54	L1
0.9540	29.95	29.54	11.52	41.47	41.06	56.00	46.00	-14.53	-4.94	L1
1.7260	27.14	26.34	11.55	38.69	37.89	56.00	46.00	-17.31	-8.11	L1
18.8180	38.84	30.93	12.37	51.21	43.30	60.00	50.00	-8.79	-6.70	L1
0.1860	24.57	23.85	11.52	36.09	35.37	64.21	54.21	-28.12	-18.84	L2
0.2819	19.75	18.10	11.52	31.27	29.62	60.76	50.76	-29.49	-21.14	L2
0.4860	29.85	16.20	11.51	41.36	27.71	56.24	46.24	-14.88	-18.53	L2
1.7620	20.50	17.95	11.55	32.05	29.50	56.00	46.00	-23.95	-16.50	L2
10.7580	31.42	30.97	12.04	43.46	43.01	60.00	50.00	-16.54	-6.99	L2
19.8754	35.63	32.19	12.37	48.00	44.56	60.00	50.00	-12.00	-5.44	L2

NOTE: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

^{2.} Those frequencies only show peak emission level because that was below the Average limit, so no need to check average anymore.