

# FCC CFR47 PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 7

#### **CERTIFICATION TEST REPORT**

**FOR** 

**WIRELESS PANIC REMOTE 5019-02** 

**MODEL NUMBER: 2GIG-PANIC1-345** 

FCC ID: WDQ-PAN1345 IC ID: 7794A-PAN1345

REPORT NUMBER: 09U12674-1, Revision A

**ISSUE DATE: AUGUST 26, 2009** 

Prepared for

2GIG TECHNOLOGIES, INC. 200 BROADHOLLOW RD. SUITE 207 MELVILLE, NY 11747

Prepared by

COMPLIANCE CERTIFICATION SERVICES 47173 BENICIA STREET FREMONT, CA 94538, U.S.A.

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NVLAP LAB CODE 200065-0

# **Revision History**

**DATE: AUGUST 26, 2009** 

Rev.	Issue Date	Revisions	Revised By
	07/09/09	Initial Issue	T. Chan
A	08/26/09	Revised IC ID and model number	A. Zaffar

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** 2GIG TECHNOLOGIES, INC.

200 BROADHOLLOW RD. SUITE 207

MELVILLE, NY 11747

**EUT DESCRIPTION:** WIRELESS PANIC REMOTE 5019-02

MODEL NUMBER: 2GIG-PANIC1-345

**SERIAL NUMBER:** 015-7107 and 015-7152

**DATE TESTED:** JUNE 27 - 31, 2009

#### APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 15 SUBPART C

Pass

INDUSTRY CANADA RSS-210 Issue 7, Annex 1

Pass

INDUSTRY CANADA RSS-GEN Issue 2

Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note**: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For CCS By:

Tested By:

121

THU CHAN EMC MANAGER

COMPLIANCE CERTIFICATION SERVICES

DEVIN CHANG EMC ENGINEER

COMPLIANCE CERTIFICATION SERVICES

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 2, and RSS-210 Issue 7.

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# 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <a href="http://www.ccsemc.com">http://www.ccsemc.com</a>.

## 4. CALIBRATION AND UNCERTAINTY

#### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

#### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

## 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

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# 5. EQUIPMENT UNDER TEST

#### 5.1. DESCRIPTION OF EUT

The EUT is a wireless panic remote.

Equipment Type	345 MHz Transmitter			
Fundamental Frequency	345 MHz			
Power Source	3 VDC nominal, from CR2032 battery			
Transmitting Time	Periodic <5 seconds			
Manufacturer	Secure Wireless, Inc.			

#### 5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal loop antenna, with a maximum gain of -15 dBi.

#### 5.3. SOFTWARE AND FIRMWARE

The EUT is modified to transmit continuously.

#### 5.4. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined by X flat surface and Y upward position and Z position. The highest measured output power was at X-Axis.

#### 5.5. MODIFICATIONS

No modifications were made during testing.

## 5.6. DESCRIPTION OF TEST SETUP

#### **SUPPORT EQUIPMENT**

None

## **I/O CABLES**

None, the EUT is battery operated.

## **TEST SETUP**

The EUT is stand-alone unit

# **SETUP DIAGRAM FOR TESTS**



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# **6. TEST AND MEASUREMENT EQUIPMENT**

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST									
Description Manufacturer Model Asset Cal Due									
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	02/04/10					
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01171	01/14/10					
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	12/16/09					
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	04/20/10					
Antenna, Horn, 18 GHz	EMCO	3115	C00872	04/22/10					

#### 7. ANTENNA PORT TEST RESULTS

#### 7.1. 20 dB AND 99% BW

#### LIMITS

#### FCC §15.231 (c)

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

#### IC A1.1.3

For the purpose of Section A1.1, the 99% Bandwidth shall be no wider than 0.25% of the center frequency for devices operating between 70-900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

#### **TEST PROCEDURE**

#### **ANSI C63.4**

The transmitter output is connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 100 KHz. The VBW is set to 300 KHz. The sweep time is coupled. Bandwidth is determined at the points 20 dB down from the modulated carrier.

99% Bandwidth: The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

#### **RESULTS**

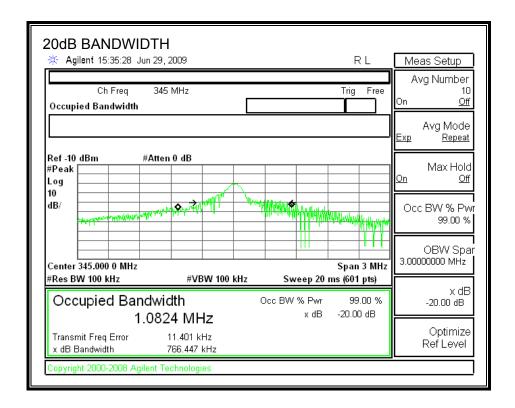
## 20dB Bandwidth

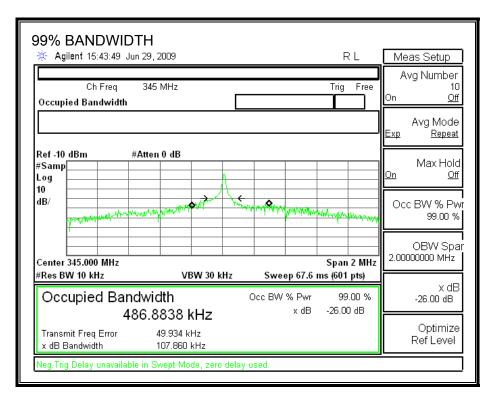
Frequency	20dB Bandwidth	Limit	Margin
(MHz)	(kHz)	(kHz)	(kHz)
345	766.4	862.5	-96.1

#### 99% Bandwidth

Frequency	99% Bandwidth	Limit	Margin
(MHz)	(kHz)	(kHz)	(kHz)
345	486.9	862.5	-375.6

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#### 7.2. DUTY CYCLE

#### **LIMITS**

## FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

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#### **TEST PROCEDURE**

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1000 kHz and the VBW is set to 1000 kHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

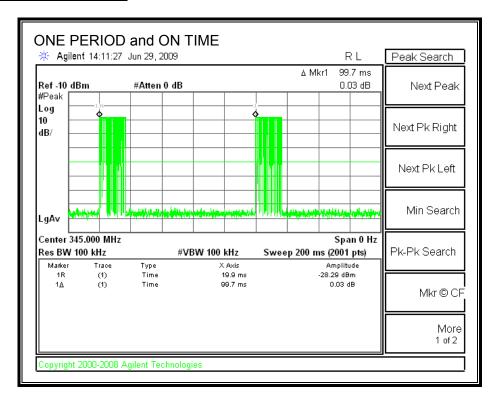
#### **CALCULATION**

Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses \* long pulse width) + (# of short pulses \* short pulse width) / 100 or T

#### **RESULTS**

One	Long Pulse	# of	Short	# of	Duty	20*Log
Period	Width	Long	Width	Short	Cycle	Duty Cycle
(ms)	(ms)	Pulses	(ms)	Pulses		(dB)

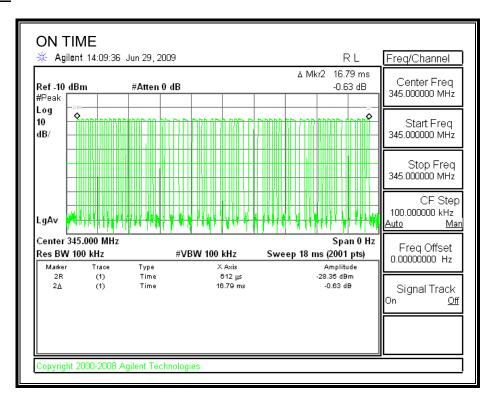
#### **ONE PERIOD and ON TIME**



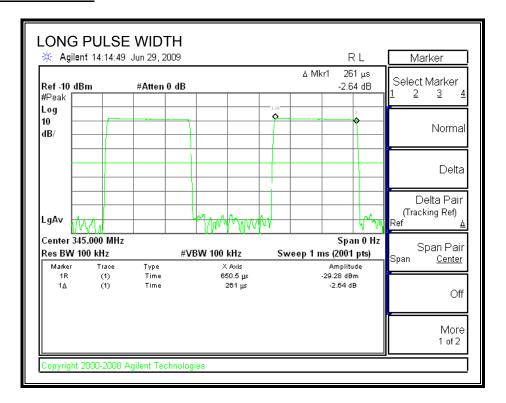
**DATE: AUGUST 26, 2009** 

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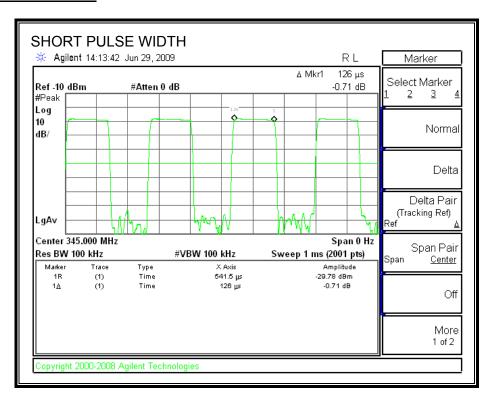
#### ON TIME



#### **LONG PULSE WIDTH**



#### **SHORT PULSE WIDTH**



# 7.3. TRANSMISSION TIME

#### **LIMITS**

FCC §15.231 (a) (2)

IC A1.1.1 (b)

A transmitter activated automatically shall cease transmission within 5 seconds after activation.

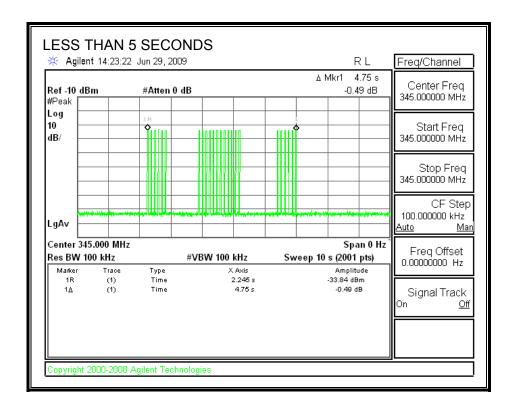
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#### **TEST PROCEDURE**

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 100 kHz and the VBW is set to 100 kHz. The sweep time is set to 10 seconds and the span is set to 0 Hz.

#### **RESULTS**



# 8. RADIATED EMISSION TEST RESULTS

#### 8.1. TX RADIATED SPURIOUS EMISSION

#### **LIMITS**

FCC §15.231 (b)

IC A1.1.2

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Frequency (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,7501	125 to 3751
174 - 260	3,750	375
260 - 470	3,750 to 12,5001	375 to 1,2501
Above 470	12,500	1,250

<sup>1</sup> Linear interpolation

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz MHz		MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	( <sup>2</sup> )
13.36 – 13.41	322 - 335.4		

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1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR guasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) 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 (microvolts/meter)	Measurement Distance (meters)
30 88	100 **	3
88 216	150 **	3
216 960	200 **	3
Above 960	500	3

<sup>\*\*</sup> 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.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

#### **TEST PROCEDURE**

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

#### **RESULTS**

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#### FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 - 1000 MHz)

COMPLIANCE
Certification Services

FCC, VCCI, CISPR, CE, AUSTEL, NZ UL, CSA, TUV, BSMI, DHHS, NVLAP

47173 BENICIA STREET, FREMONT, CA 94538 PHONE: (510) 771-1000 FAX: (501) 661-0888

Company: SECURE WIRELESS, INC.

EUT Description: Wireless Panic Remote 5016-02

EUT Batteries Operated.

EUT Batteries Operated.

Type of Test: FCC 15.231

Mode of Operation: Continuous Transmit

M% = ((t1+t2+t3+...)/T) = 8.6%

Av Reading = Pk Reading + 20\*log(M%)

Project #:

Report #:

Test Engr:

Date& Time:

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6/30/2009

Devin Chang

20 \* log (M%) = -21.31 (Max=-20dB)

Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Pk Level	Av Level	Pk Limit	Av Limit	Pk Margin	Avg Margin	Pol
(MHz)	(dBuV)	(dBu√)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	FCC_B	FCC_B	(dB)	(dB)	(H/√)
345.00MHz	. Fundamer	ntal freque	ency									
EUT At X F	osition											
345.00	56.39	36.39	14.00	1.62	0.00	72.01	52.01	97.26	77.26	-25.25	-25.25	3mV
345.00	74.78	54.78	14.00	1.62	0.00	90.40	70.40	97.26	77.26	-6.86	-6.86	3mH
EUT At Y F	Position											
345.00	71.42	51.42	14.00	1.62	0.00	87.04	67.04	97.26	77.26	-10.22	-10.22	3m∨
345.00	68.80	48.80	14.00	1.62	0.00	84.42	64.42	97.26	77.26	-12.84	-12.84	3mH
EUT At Z F	osition											
345.00	71.81	51.81	14.00	1.62	0.00	87.43	67.43	97.26	77.26	-9.83	-9.83	3m∨
345.00	69.39	49.39	14.00	1.62	0.00	85.01	65.01	97.26	77.26	-12.25	-12.25	3mH
X-Position												
690.00	45.35	25.35	18.90	2.40	28.50	38.15	18.15	77.26	57.26	-39.11	-39.11	3m∨
690.00	57.44	37.44	18.90	2.40	28.50	50.24	30.24	77.26	57.26	-27.02	-27.02	3mH

Note: No other emissions were detected above system noise floor from 30 MHz to 1000 MHz.

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#### **HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz**

High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Devin Chang 6/31/2009 Date: 09U12674 Project #: Company: Secure Wireless

EUT Description: Wireless Panic Remote(5019-02)

EUT M/N: SW-PANIC1-345 Mode Oper: Continuous Transmit

> f Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit Read Analyzer Reading Avg Average Field Strength @ 3 m
>
> AF Antenna Factor Peak Calculated Peak Field Strength
>
> CL Cable Loss HPF High Pass Filter Margin vs. Average Limit Margin vs. Peak Limit

f	Dist	Read	AF	CL	Amp	D Corr	Fltr	Corr.	Limit	Margin	Ant Pol	Det.	Notes
GHz	(m)	dBuV	dB/m	đВ	đВ	dВ	đВ	dBuV/m	dBuV/m	dВ	V/H	P/A/QP	
1.035	3.0	50.4	24.1	2.4	-36.1	0.0	0.0	40.7	74.0	-33.3	V	P	
1.035	3.0	30.4	24.1	2.4	-36.1	0.0	0.0	20.7	54.0	-33.3	v	A	
1.380	3.0	45.9	25.3	2.8	-35.9	0.0	0.0	38.2	74.0	-35.8	V	P	
1.380	3.0	25.9	25.3	2.8	-35.9	0.0	0.0	18.2	54.0	-35.8	v	A	
2.760	3.0	50.5	29.3	4.1	-35.2	0.0	0.0	48.8	74.0	-25.2	v	P	
2.760	3.0	30.5	29.3	4.1	-35.2	0.0	0.0	28.8	54.0	-25.2	v	A	
1.035	3.0	47.2	24.1	2.4	-36.1	0.0	0.0	37.5	74.0	-36.5	H	P	
1.035	3.0	27.2	24.1	2.4	-36.1	0.0	0.0	17.5	54.0	-36 <b>.5</b>	H	A	
1.380	3.0	42.9	25.3	2.8	-35.9	0.0	0.0	35.2	74.0	-38.8	н	P	
1.380	3.0	22.9	25.3	2.8	-35.9	0.0	0.0	15.2	54.0	-38.8	н	A	
2.760	3.0	51.3	29.3	4.1	-35.2	0.0	0.0	49.6	74.0	-24.4	н	P	
2.760	3.0	31.3	29.3	4.1	-35.2	0.0	0.0	29.6	54.0	-24.4	Н	A	
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Note: No other emissions were detected above the system noise floor.

# 8.2. RX RADIATED SPURIOUS EMISSION

#### **LIMITS**

IC RSS-Gen Issue 2, section 7.2.3.2

All spurious emissions shall comply with the limits shown below:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m						
Frequency range	Quasi-peak limits					
(MHz)	(dBµV/m)					
30 to 88	40					
88 to 216	43.5					
216 to 960	46					
Above 960 MHz	54					
Note: The lower limit shall apply at the transition frequency.						

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#### **TEST PROCEDURE**

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to receive in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The spectrum from 30 MHz to 5th harmonic is investigated with the transmitter set to the middle channel.

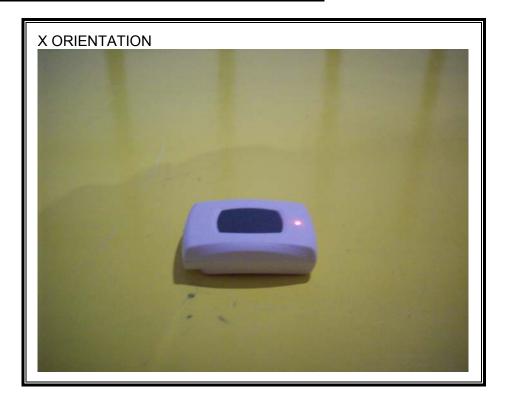
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

#### **RESULTS**

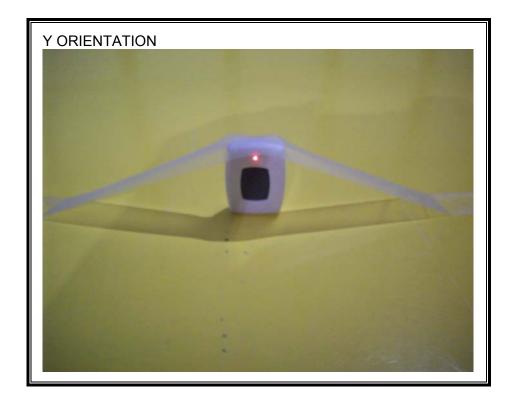
Not applicable, this EUT is transmitter only.

# 9. SETUP PHOTOS

#### RADIATED EMISSION FOR PORTABLE CONFIGURATION

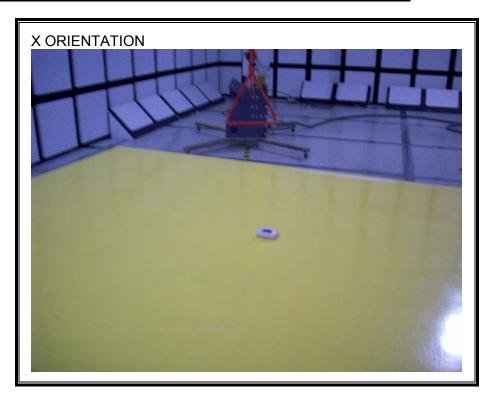


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#### WORST CASE PORTABLE CONFIGURATION FOR RADIATED EMISSION



**END OF REPORT**