



RTX Consumer Products Hong Kong Ltd.

Application
For
47 CFR Part 15 Certification

Unlicensed Personal Communication Service Devices

FCC ID: T7HCT8030

Test Report Number: 07117591

Issue Date: July 24, 2007

TL/ ac

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INTERTEK TESTING SERVICES

MEASUREMENT/TECHNICAL REPORT

RTX Consumer Products Hong Kong Ltd.

**Model: CT8030 DECT Handset - INT, CT8030 DECT Handset - NA,
CT8030 DECT Handset - LATAM, G955 DECT Handset - NEC,
G955 DECT Handset - NEC NA, G955 DECT Handset - LATAM,
NEC G955 DECT Handset, G955 DECT Handset - INT,
G955 DECT Handset - NA, G955 DECT Handset - LATAM**

FCC ID: T7HCT8030

This report concerns (check one:) Original Grant Class II Change

Equipment Type : PUE - Part 15 Unlicensed PCS portable Tx held to ear
DSS - Spread Spectrum Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No

If yes, defer until :

_____ Date

Company Name agrees to notify the Commission by: _____ Date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes No

If no, assumed Part 15, Subpart D for Unlicensed Personal Communication Service Device - the new 47 CFR [04-05-05 Edition] Provision.

Report prepared by:

Leung Wai Leung, Tommy

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List of Attached Files

Exhibit Type	File Description	Filename
Operation Description	Technical Description	descri.pdf
Operation Description	Confirmation of products difference	confirmation.pdf
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission Test Configuration	config photos.doc
Test Report	Bluetooth Portion	BTreport.pdf
External Photos	External Photo	external photos.doc
Internal Photos	Internal Photo	internal photos.doc
SAR Report	SAR Report	SAR report 1 of 2.pdf SAR report 2 of 2.pdf
ID Label/Location Info	Label Artwork and Location	label.pdf
ID Label/Location Info	Label Location Justification	justification.pdf
Block Diagrams	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
User Manual	User Manual	manual.pdf
Cover Letter	UTAM affidavit	utam.pdf
Cover Letter	Confidentiality Request	request.pdf
Declaration Letter	Declaration	declaration.pdf

**EXHIBIT 1
SUMMARY OF TEST RESULTS**

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1.0 Summary of Test Results

RTX Consumer Products Hong Kong Ltd.

**Model: CT8030 DECT Handset - INT, CT8030 DECT Handset - NA,
CT8030 DECT Handset - LATAM, G955 DECT Handset - NEC,
G955 DECT Handset - NEC NA, G955 DECT Handset - LATAM,
NEC G955 DECT Handset, G955 DECT Handset - INT,
G955 DECT Handset - NA, G955 DECT Handset - LATAM**

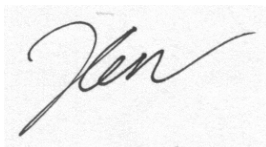
FCC ID: T7HCT8030

Technical Requirements				
Test Items	FCC Part 15 Section	Test Procedure ANSI C63.17 / ANSI C63.4	Results	Details see section
Emissions Outside the Sub-Band	15.323(d)	6.1.6.2	Pass	4.1
Radio Frequency Radiation Exposure	15.319(i)	---	Pass	4.2

As the 1.9GHz RF module and its mechanism of this device is identical with the granted device of FCC ID: T7HCT8010, please refer to the granted report of FCC ID: T7HCT8010. For other required tests such as the emissions outside the sub-band and SAR evaluation test report. They are all included in this report, and the report of add-on Bluetooth module is also saved as filename: BTreport.pdf

The difference between these 2 devices (FCC ID: T7HCT8010 and FCC ID: T7HCT8030) is saved as filename: confirmation.pdf

Test Engineer:



Kenneth C. C. Lam
Assistant Supervisor

Date: July 24, 2007

Approved By:



Leung Wai Leung, Tommy
Manager

Date: July 24, 2007

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**EXHIBIT 2
GENERAL DESCRIPTION**

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2.0 General Description

2.1 Product Description

The CT8030 DECT Handset - INT is a 1.9GHz Digital Modulation Cordless Handset with Caller ID and Bluetooth. It operates at frequency range of 1921.536MHz to 1928.448MHz with 5 channels. On the other hand, it has another add-on RF module for Bluetooth that operates at frequency range of 2402MHz-2480MHz. The unit is capable of either tone or pulse dialing. The internal power supply's isolation is accomplished through a power transformer having an adequate dielectric rating. The circuit wiring is consistent under the requirement of part 68.

The handset unit consists of a keypad with twelve standard keys (0,...9,*,#), four function keys (Left soft key, Right soft key, Navigational keys, OK). An OFF hook key and an ON hook key with power on/off function are provided to control pick and release telephone line in a toggle base

The antennas used in handset are integral, and the test sample is a prototype.

The Model: CT8030 DECT Handset - NA, CT8030 DECT Handset - LATAM, G955 DECT Handset - NEC, G955 DECT Handset - NEC NA, G955 DECT Handset - LATAM, NEC G955 DECT Handset, G955 DECT Handset - INT, G955 DECT Handset - NA, and G955 DECT Handset - LATAM are the same as the Model: CT8030 DECT Handset - INT in hardware aspect except different cosmetics. The difference in model number serves as marketing strategy.

Connection between the device and the telephone network is accomplished through the use of USOC RJ11C in the 2-wire loop calling central office line.

2.2 Technical Description

The circuit description is saved as filename: descri.pdf.

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2.3 Related Submittal(s) Grants

This is an application for Certification of a PUE - Part 15 Unlicensed PCS portable Tx held to ear. The device is also subject to Part 68 Registration. On the other hand, a 2.4GHz transmitter-Bluetooth, a composite device subject to an additional equipment authorization (DSS-Spread Spectrum Transmitter), has the same as this FCC ID: T7HCT8030, and has been filed at the same time together with this report.

A Verification report has been prepared for the digital device portion.

2.4 Test Methodology

The radiated emission measurements for unintentional radiator and AC power line-conducted emission measurements were performed according to the test procedures specified in ANSI C63.4 (2003). The radiated emission measurements for intentional radiator contained in UPCS device, conducted emission measurements, Listen Before Transmit (LBT) tests, Time Frame and Frequency Stability tests were performed according to the test procedures specified in Revision Draft ANSI C63.17 (2006). All radiated measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in 47 CFR Part 2.

2.5 Test Facility

The open area test site and conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

**EXHIBIT 3
SYSTEM TEST CONFIGURATION**

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3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) was setup to transmit continuously in burst mode with pseudo-random data to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst-case emissions. The handset was powered by a fully charged battery.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. If the handset attached to peripherals, they were connected and operational (as typical as possible).

The signal was maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization were varied during the search for maximum signal level. The antenna height was varied from 1 to 4 meters. Detector function was in peak mode. Radiated emissions are taken at three meters unless the signal level was too low for measurement at that distance. If necessary, a pre-amplifier was used and/or the test was conducted at a closer distance.

All readings were extrapolated back to the equivalent three meters reading using inverse scaling with distance. The spectrum analyzer resolution bandwidth was approximately 1% of the EUT emission bandwidth, unless otherwise specified.

Radiated emission measurements were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

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3.2 Conducted Emission Test Configuration

The setup and equipment setting were made in accordance with ANSI C63.17. The antenna of EUT transmitter was replaced by a coaxial cable. The impedance matching of connection, cable loss and external RF attenuator are taken into account. The EUT was arranged to communicate via a fixed carrier frequency between its transmitter and a companion device. The transmission was configured in burst mode with pseudo-random data as typical as normal operation.

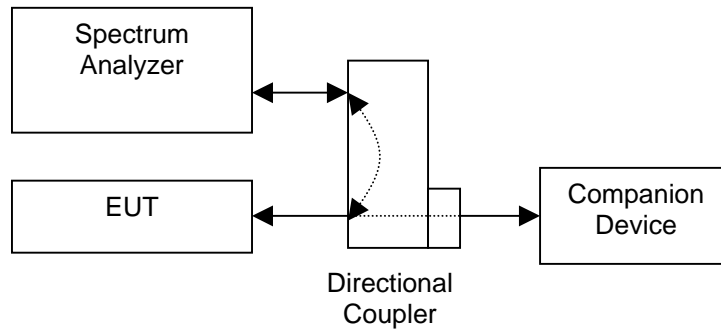


Figure 3.2.1

3.3 Conducted Monitoring and Operational Test Configuration

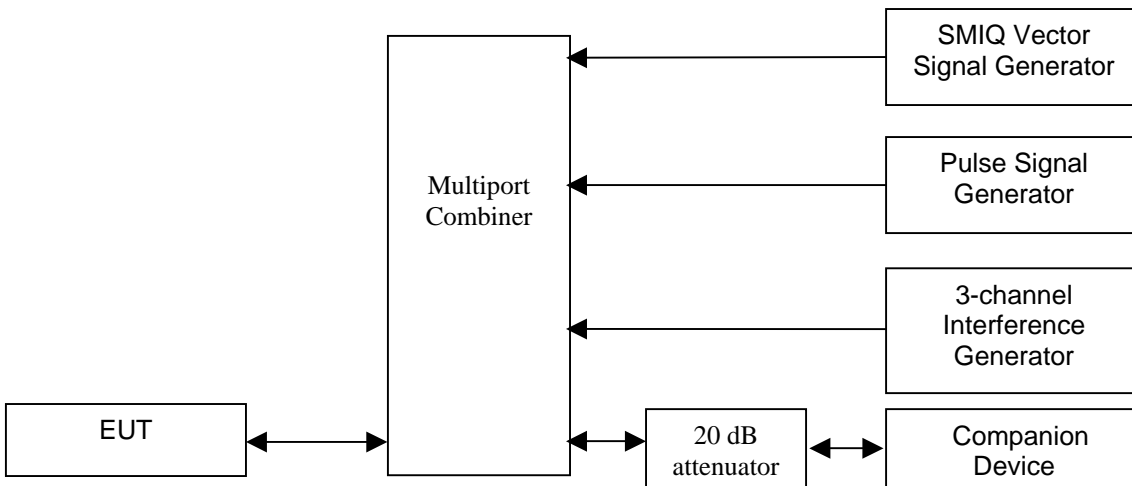


Figure 3.3.1

3.4 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

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3.5 Support Equipment List and Description

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system are:

POWER SOURCES:

The unit was operated standalone. A battery (provided with the unit) was used to power the device. This descriptions is listed below.

- (1) Handset: A "Li-ion" type rechargeable battery (3.7V 650mAh)
- (2) Handset Charger: A switching AC adaptor (100-240VAC to 5VDC 350mA, Model: SSW-1444US)
- (3) Base Unit: A switching AC adaptor (100-240VAC to 12VDC 300mA, Model: SSW-1187US)

CABLES:

- (1) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated (Supplied by Intertek)

OTHERS:

- (1) Telephone Headset (Supplied by Intertek)
- (2) Base Unit, Model: RTX3080.103, FCC ID: ELIRTX3080 (Supplied by Client)
- (3) Bluetooth Module, Model: RTX8030, FCC ID: T7HCT8030 (Supplied by Client)

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3.6 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty test has been considered.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

3.7 Equipment Modification

Any modifications installed previous to testing by RTX Consumer Products Hong Kong Ltd. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by ETL Division, Intertek Testing Services Hong Kong Ltd.

All the items listed under section 3.0 of this report are confirmed by:

Confirmed by:

*Leung Wai Leung, Tommy
Manager
Intertek Testing Services Hong Kong Ltd.
Agent for RTX Consumer Products Hong Kong Ltd.*



Signature

July 24, 2007

Date

**EXHIBIT 4
MEASUREMENT RESULTS**

INTERTEK TESTING SERVICES

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT

4.0 Measurement Results

4.1 Emissions Outside the Sub-Band, FCC Rule 15.323(d):

Emissions outside the sub-band shall be attenuated below a reference power of 112 mW (20.5 dBm) as follows:

1. 30 dB between the band edge and 1.25 MHz above or below the band;
2. 50 dB between 1.25 and 2.5 MHz above or below the band; and
3. 60 dB at 2.5 MHz or greater above or below the band, or shall meet the requirement of FCC Rule 15.319(g) which shall not exceed the limits of FCC Rule 15.209.

Example: Calculation of Limit for emissions between the band edge and 1.25 MHz (1920.000 – 1918.750 MHz)

The emissions shall not exceed the Limit: 20.5 dBm – 30 dB = -9.5 dBm

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.6.2. As EUT has non-detachable antenna(s), radiated emissions test method is used for out-of-band emissions tests. Emissions that are directly caused by digital circuits in the transmit path and transmitter portion are measured. Test setup and procedures are described in section 3.2 Figure 3.2.1.

Test Results:

Channel	Carrier Frequency (MHz)	Measured Band (MHz)	Limit (dBm)	Results
Lowest	1921.536	1920.000 - 1918.750	-9.5	Pass
		1918.750 - 1917.500	-29.5	Pass
		0.009 - 1917.500 & 1932.500 - 19300.000	-39.5	Pass
Highest	1928.448	1930.000 - 1931.250	-9.5	Pass
		1931.250 - 1932.500	-29.5	Pass
		0.009 - 1917.500 & 1932.500 - 19300.000	-39.5	Pass

Please refer to the section 4.1.1 to 4.1.4 for more details.

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Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT
Mode: Transmission

4.1.1 Radiated Emissions Configuration Photographs:

Worst Case Radiated Emission
at

3843.080 MHz

The worst case radiated emission configuration photographs are saved as filename:
config photos.doc

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Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT
Mode: Transmission

4.1.2 Radiated Emissions Data:

Data are included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data in table 1, 2, and 3 list the significant emission frequencies, the limit and the margin of compliance.

Judgement: Passed by 3.9 dB margin

TEST ENGINEER:

Signature

Kenneth C. C. Lam, Assistant Supervisor
Typed/Printed Name

Date

INTERTEK TESTING SERVICES

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT

4.1.3 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

Where FS = Field Strength in dB μ V/m
 RA = Receiver Amplitude (including preamplifier) in dB μ V
 CF = Cable Attenuation Factor in dB
 AF = Antenna Factor in dB
 AG = Amplifier Gain in dB
 PD = Pulse Desensitization in dB
 AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29.0 dB is subtracted. The pulse desensitization factor of the spectrum analyzer is 0.0 dB, and the resultant average factor is -10.0 dB. The net field strength for comparison to the appropriate emission limit is 32.0 dB μ V/m. This value in dB μ V/m is converted to its corresponding level in μ V/m.

RA = 62.0 dB μ V
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0.0 dB
AV = -10 dB

$$FS = 62.0 + 7.4 + 1.6 - 29.0 + 0.0 + (-10.0) = 32.0 \text{ dB}\mu\text{V/m}$$

Level in mV/m = Common Antilogarithm [(32.0 dB μ V/m)/20] = 39.8 μ V/m

INTERTEK TESTING SERVICES

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT

4.1.4 Average Factor Calculation and Transmitter ON Time Measurements, FCC Rule 15.35(b, c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SPAN function on the analyzer was set to ZERO. The transmitter ON time was determined from the resultant time-amplitude display:

- [] Please refer to the attached plots for more details:
Plot 5A: Transmitter ON Time Measurements (Traffic Carrier)

The plot of Transmitter ON Time Measurements are saved as filename: txon.pdf

- [] Please refer to the attached transmitter timing diagram that are provided by manufacturer

- [x] Not applicable - No average factor is required.

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Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT
Mode: Transmission

Table 1

**Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) Emissions Requirements**

Lowest Channel:

Polarization	Frequency (MHz)	Emission Level at 3m (dBm)	Limit (dBm)	Margin (dB)
V	1919.764	-46.6	-9.5	-37.1
V	1918.249	-52.0	-29.5	-22.5
V	1917.082	-54.3	-39.5	-14.8
H	3843.080	-43.4	-39.5	-3.9
H	5764.620	-47.0	-39.5	-7.5
H	7686.160	-49.9	-39.5	-10.4
H	9607.700	-50.2	-39.5	-10.7

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. In the band at 2.5 MHz or greater above or below the band,
 - [x] Emissions are below the limit -39.5 dBm.
 - [] Emissions meet the requirement of FCC Rule 15.319(g), and are below the limits of FCC Rule 15.209. The emissions data are included in tables 2.

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Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT
Mode: Transmission

Table 2

**Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) Emissions Requirements**

Highest Channel:

Polarization	Frequency (MHz)	Emission Level at 3m (dBm)	Limit (dBm)	Margin (dB)
V	1930.086	-44.4	-9.5	-34.9
V	1931.456	-51.3	-29.5	-21.8
V	1932.674	-54.3	-39.5	-14.8
H	3856.884	-44.0	-39.5	-4.5
H	5785.326	-47.1	-39.5	-7.6
H	7713.768	-50.0	-39.5	-10.5
H	9642.210	-50.6	-39.5	-11.1

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. In the band at 2.5 MHz or greater above or below the band,
 - [x] Emissions are below the limit -39.5 dBm.
 - [] Emissions meet the requirement of FCC Rule 15.319(g), and are below the limits of FCC Rule 15.209. The emissions data are included in tables 4.

INTERTEK TESTING SERVICES

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT
Mode: Talk

Table 3

**Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) Emissions Requirements**

Polari- zation	Frequency (MHz)	Emission Level at 3m (dBm)	Limit (dBm)	Margin (dB)
V	51.254	-67.5	-39.5	-28.0
V	75.842	-66.2	-39.5	-26.7
V	85.836	-63.8	-39.5	-24.3
H	135.246	-64.2	-39.5	-24.7
H	162.785	-64.9	-39.5	-25.4
H	192.648	-65.4	-39.5	-25.9

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. In the bands 0.009-1917.500MHz & 1932.500-19300.000MHz,
 - [x] Emissions are below the limit -39.5 dBm.
 - [] Emissions meet the requirement of FCC Rule 15.319(g), and are below the limits of FCC Rule 15.209. The emissions data are included in tables 4.

INTERTEK TESTING SERVICES

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 15-July 4, 2007
Model: CT8030 DECT Handset - INT

4.2 Radio Frequency Radiation Exposure, FCC Rule 15.319(i):

EUT is subject to the radio frequency exposure requirements specified in FCC Rule §§ 1.1307(b), 2.1091 and 2.1093. It shall be considered to operate in a “general population / uncontrolled” environment.

- [x] EUT was evaluated for Specific Absorption Rate (SAR) evaluation compliance according to OET Bulletin 65, Supplement C (Edition 01-01). It is in compliance with the SAR evaluation requirements. The caution statement is specified in the user manual. A SAR test report was submitted at same time and saved as SAR report 1 of 2.pdf and SAR report 2 of 2.pdf

- [] EUT was evaluated for Maximum Permissible Exposure (MPE) evaluation compliance according to OET Bulletin 65, Supplement C (Edition 01-01). The evaluation calculation results are saved as filename: RF exposure info.pdf.

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**EXHIBIT 5
DECLARATION**

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5.0 Declaration

The declaration letter is saved as filename: declaration.pdf

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**EXHIBIT 6
EQUIPMENT PHOTOGRAPHS**

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6.0 Equipment Photographs

The photographs are saved as filename: external photos.doc & internal photos.doc

**EXHIBIT 7
PRODUCT LABELLING**

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7.0 Product Labelling

The FCC ID label artwork and its location are saved as filename: label.pdf

The label location justification letter is saved as filename: justification.pdf

**EXHIBIT 8
TECHNICAL SPECIFICATIONS**

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8.0 Technical Specifications

The block diagram and circuit diagram are saved as filename: block.pdf and circuit.pdf respectively.

**EXHIBIT 9
INSTRUCTION MANUAL**

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9.0 Instruction Manual

A preliminary copy of the Instruction Manual is saved as filename: manual.pdf

The required FCC Information to the User is stated on P.6 and P.7 of Instruction Manual.

This manual will be provided to the end-user with each unit sold/leased in the United States.

**EXHIBIT 10
UTAM Affidavit**

INTERTEK TESTING SERVICES

10.0 UTAM Affidavit

A copy of the UTAM affidavit is saved as filename: utam.pdf

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**EXHIBIT 11
CONFIDENTIALITY REQUEST**

INTERTEK TESTING SERVICES

11.0 Confidentiality Request

A copy of the Confidentiality Request is saved as filename: request.pdf