

Issuing Laboratory: Intertek Testing Services Hong Kong Limited HKAS has accredited this laboratory (HOKLAS 005 – TEST) under HOKLAS for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories.



TEST REPORT

Report No.: 15051235HKG-001

Alco Electronics Ltd

Application For Certification (Original Grant) (FCC ID: A2HRTS7131B)

Transceiver

Prepared and Checked by:

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Approved by:

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GENERAL INFORMATION

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Manufacturer Address:	Gong Ye Xi Road,
	Houjie Technology Industrial Park,
	Houjie, Dongguan, Guangdong P.R.C. 523960 China
Brand Name:	VENTURER / RCA
Model:	SBT17131B / RTS7131B
Type of EUT:	Transceiver
Description of EUT:	Home Theater Sound Bar
Serial Number:	N/A
FCC ID:	A2HRTS7131B
Date of Sample Submitted:	May 21, 2015
Date of Test:	May 21, 2015 to June 03, 2015
Report No.:	15051235HKG-001
Report Date:	June 16, 2015
Environmental Conditions:	Temperature: +10 to 40°C
	Humidity: 10 to 90%



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SUMMARY OF TEST RESULT

TEST SPECIFICATION	REFERENCE	RESULTS
Transmitter Power Line Conducted Emissions	15.207	Pass
Radiated Emission	15 240 15 200	Page
Radiated Emission on the Bandedge	15.249, 15.209	Fa55
Radiated Emission in Restricted Bands	15.205	Pass

The equipment under test is found to be complying with the following standards: FCC Part 15, October 1, 2013 Edition

- Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the pervisions of this section.
 - Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.



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	General Description Product Description Related Submittal(s) Grants Test Methodology Test Facility System Test Configuration Justification EUT Exercising Software Special Accessories Measurement Uncertainty Support Equipment List and Description Emission Results Field Strength Calculation Radiated Emission Configuration Photograph Radiated Emission Configuration Photograph Conducted Emission Data Conducted Emission Data Equipment Photographs 1 Product Labelling 1 Miscellaneous Information 1 Radiated Emission on the Bandedge 1 Discussion of Pulse Desensitization 1 Calculation of Average Factor 1 Equipment List 2



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1.0 General Description

1.1 Product Description

The Equipment Under Test (EUT) is a Home Theatre Sound Bar. It can accept analog input sources (RCA aux-in and 3.5mm phone jack line-in), SPDIF digital audio input (optical TOSLINK) and wireless Bluetooth device. The Bluetooth module in the EUT is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The audio signal is amplified and fed to the built-in passive loudspeakers. The EUT is powered by an AC/DC adaptor. (Input: 120VAC 50/60Hz; Output: 13VDC 1.8ADC).

The Model: RTS7131B is the same as the Model: SBT17131B in hardware aspect. The difference in model number and brand name serves as marketing strategy.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber 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.

1.4 Test Facility

The 3m Chamber and conducted measurement facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been placed on file with the FCC.



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2.0 System Test Configuration

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The device was powered by 120VAC.

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF signal continuously.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.



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2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of 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.

- 2.5 Support Equipment List and Description
 - 1. 2 x audio cable of 1.2m long (with termination) (Provided by Intertek)
 - 2. Software: RF Control Kit
 - AC/DC Adaptor (Model: GT-WAGL13000180-302, Input: 100-120VAC 0.7A, Output: 13VDC 1.8A) (Provided by Applicant)



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3.0 Emission Results

Data is 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.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows: FS = RA + AF + CF - AG - AV

where $FS = Field Strength in dB\mu V/m$ $RA = Receiver Amplitude (including preamplifier) in dB\mu V$ CF = Cable Attenuation Factor in dB AF = Antenna Factor in dB AG = Amplifier Gain in dBAV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows: FS = RR + LF

where $FS = Field Strength in dB\mu V/m$ RR = RA - AG - AV in dB μ V LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

 $\begin{array}{ll} RA = 52.0 \ dB\mu V/m \\ AF = 7.4 \ dB \\ CF = 1.6 \ dB \\ AG = 29.0 \ dB \\ AV = 5.0 \ dB \\ FS = RR + LF \\ FS = 18 + 9 = 27 \ dB\mu V/m \end{array}$

Level in μ V/m = Common Antilogarithm [(27 dB μ V/m)/20] = 22.4 μ V/m



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3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 39.768 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 3.1 dB

3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 0.483 MHz

For electronic filing, the worst case line-conducted configuration photographs are saved with filename: conducted photo.pdf.

3.5 Conducted Emission Data

For electronic filing, the graph and data table of conducted emission is saved with filename: conducted.pdf.

Judgment: Pass by 8.5 dB



Issuing Laboratory: Intertek Testing Services Hong Kong Limited







Worst-Case Operating Mode: Transmitting (Bluetooth)

EDI	F PEAK LIST (Final	Measurement Resul	ts)
Tracel:	CF15MQP		
Trace2:	CF15MAV		
Trace3:			
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	159 kHz	47.60 N	-17.91
2 CISPR Averag	e199.5 kHz	35.18 L1	-18.44
1 Quasi Peak	231 kHz	42.21 L1	-20.20
2 CISPR Averag	e231 kHz	33.44 Ll	-18.97
1 Quasi Peak	316.5 kHz	38.93 Ll	-20.86
2 CISPR Averag	e325.5 kHz	30.47 Ll	-19.09
1 Quasi Peak	483 kHz	43.77 Ll	-12.51
2 CISPR Averag	e483 kHz	37.75 Ll	-8.52
2 CISPR Averag	e573 kHz	26.15 L1	-19.85
2 CISPR Averag	e16.755 MHz	36.75 N	-13.24



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Date of Test: June 03, 2015

Applicant: Alco Electronics Ltd Model: SBT17131B Worst-Case Operating Mode: Transmitting (Bluetooth)

Table 1 Radiated Emissions Pursuant to FCC Part 15 Section 15.249 Requirement

Lowest Channel

			Pre-Amp	Antenna	Net at	Average	Calculated	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	Factor	at 3m	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2402.000	99.7	33	29.4	96.1	24	72.1	94.0	-21.9
Н	4804.000	61.6	33	34.9	63.5	24	39.5	54.0	-14.5
Н	7206.000	63.9	33	37.9	68.8	24	44.8	54.0	-9.2
Н	9608.000	47.9	33	40.4	55.3	24	31.3	54.0	-22.7
Н	12010.000	50.8	33	40.5	58.3	24	34.3	54.0	-19.7
H	14412.000	53.3	33	40.0	60.3	24	36.3	54.0	-17.7

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2402.000	99.7	33	29.4	96.1	114.0	-17.9
Н	4804.000	61.6	33	34.9	63.5	74.0	-10.5
Н	7206.000	63.9	33	37.9	68.8	74.0	-5.2
Н	9608.000	47.9	33	40.4	55.3	74.0	-18.7
Н	12010.000	50.8	33	40.5	58.3	74.0	-15.7
H	14412.000	53.3	33	40.0	60.3	74.0	-13.7

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



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Date of Test: June 03, 2015

Applicant: Alco Electronics Ltd Model: SBT17131B Worst-Case Operating Mode: Transmitting (Bluetooth)

Table 2 Radiated Emissions Pursuant to FCC Part 15 Section 15.249 Requirement

Middle Channel

			Pre-Amp	Antenna	Net at	Average	Calculated	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	Factor	at 3m	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2440.000	100.6	33	29.4	97.0	24	73.0	94.0	-21.0
Н	4880.000	61.8	33	34.9	63.7	24	39.7	54.0	-14.3
Н	7320.000	63.6	33	37.9	68.5	24	44.5	54.0	-9.5
Н	9760.000	48.2	33	40.4	55.6	24	31.6	54.0	-22.4
Н	12200.000	51.1	33	40.5	58.6	24	34.6	54.0	-19.4
H	14640.000	55.0	33	38.4	60.4	24	36.4	54.0	-17.6

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2440.000	100.6	33	29.4	97.0	114.0	-17.0
Н	4880.000	61.8	33	34.9	63.7	74.0	-10.3
Н	7320.000	63.6	33	37.9	68.5	74.0	-5.5
Н	9760.000	48.2	33	40.4	55.6	74.0	-18.4
Н	12200.000	51.1	33	40.5	58.6	74.0	-15.4
H	14640.000	55.0	33	38.4	60.4	74.0	-13.6

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



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Date of Test: June 03, 2015

Applicant: Alco Electronics Ltd Model: SBT17131B Worst-Case Operating Mode: Transmitting (Bluetooth)

Table 3 Radiated Emissions Pursuant to FCC Part 15 Section 15.249 Requirement

Highest Channel

			Pre-Amp	Antenna	Net at	Average	Calculated	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	Factor	at 3m	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2480.000	100.8	33	29.4	97.2	24	73.2	94.0	-20.8
Н	4960.000	61.7	33	34.9	63.6	24	39.6	54.0	-14.4
Н	7440.000	63.3	33	37.9	68.2	24	44.2	54.0	-9.8
Н	9920.000	48.0	33	40.4	55.4	24	31.4	54.0	-22.6
Н	12400.000	50.9	33	40.5	58.4	24	34.4	54.0	-19.6
Н	14880.000	55.3	33	38.4	60.7	24	36.7	54.0	-17.3

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2480.000	100.8	33	29.4	97.2	114.0	-16.8
Н	4960.000	61.7	33	34.9	63.6	74.0	-10.4
Н	7440.000	63.3	33	37.9	68.2	74.0	-5.8
Н	9920.000	48.0	33	40.4	55.4	74.0	-18.6
Н	12400.000	50.9	33	40.5	58.4	74.0	-15.6
Н	14880.000	55.3	33	38.4	60.7	74.0	-13.3

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



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Date of Test: June 03, 2015

Applicant: Alco Electronics Ltd Model: SBT17131B Worst-Case Operating Mode: Bluetooth Audio Playing

Table 4 Radiated Emissions Pursuant to FCC Part 15 Section 15.209 Requirement

			Pre-	Antenna	Net	Limit	
	Frequency	Reading	amp	Factor	at 3m	at 3m	Margin
Polarization	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	39.768	42.9	16	10.0	36.9	40.0	-3.1
Н	59.652	42.4	16	10.0	36.4	40.0	-3.6
Н	79.536	46.3	16	6.0	36.3	40.0	-3.7
Н	119.304	38.3	16	14.0	36.3	43.5	-7.2
Н	135.001	37.7	16	14.0	35.7	43.5	-7.8
Н	258.634	30.4	16	21.0	35.4	46.0	-10.6
Н	270.005	28.8	16	22.0	34.8	46.0	-11.2
Н	405.012	26.4	16	24.0	34.4	46.0	-11.6
Н	472.033	24.2	16	26.0	34.2	46.0	-11.8
Н	540.036	21.7	16	28.0	33.7	46.0	-12.3

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



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4.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

5.0 **Product Labelling**

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

6.0 **Technical Specifications**

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

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



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8.0 Miscellaneous Information

The miscellaneous information includes details of the test procedure and measured bandwidth / calculation of factor such as pulse desensitization and averaging factor.

8.1 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz to 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.4 (2009) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).



Issuing Laboratory: Intertek Testing Services Hong Kong Limited







Report No.: 15051235HKG-001 FCC ID: A2HRTS7131B





Peak Measurement (Bluetooth)

Bandedge compliance is determined by applying marker-delta method, i.e. (Bandedge Plot).

Lower bandedge

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the plot

=96.1 dBµV/m - 43.1 dB =53.0 dBµV/m

Average Resultant field strength = Fundamental emissions (average value) – delta from the plot

=72.1 dBµV/m - 43.1 dB =29.0 dBµV/m

Upper bandedge

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the plot

=97.2 dBµV/m - 48.1 dB =49.1 dBµV/m

Average Resultant field strength = Fundamental emissions (average value) – delta from the plot

=73.2 dBµV/m - 48.1 dB =25.1 dBµV/m

The resultant field strength meets the general radiated emission limit in Section 15.209, which does not exceed 74 dB μ V/m (Peak Limit) and 54 dB μ V/m (Average Limit).



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8.2 Discussion of Pulse Desensitization

(Bluetooth)

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 0.625ms for a digital "1" bit which illustrated on technical specification, with a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

8.3 Calculation of Average Factor

(Bluetooth)

Based on the Bluetooth Specification Version 2.1 + EDR, the transmitter ON time for each timeslot of Bluetooth is 625µs. DH5 has the maximum duty cycle, which consists of 5 continuous Tx slots and 1 Rx slot. Therefore one hopset take (5+1) x 625µs = 3.75ms. For one period for a pseudo-random hopping through at least 20 RF channels in adaptive mode (worse case), it take: $20 \times 3.75ms = 75ms$.

The dwell time for DH5 is $5 \times 625 \mu s = 3.125 ms$.

For the worst case calculation, there are two transmissions might occur in 100ms. Therefore,

Duty Cycle (DC) = Maximum On time in 100ms/100ms = 3.125ms x 2/100ms = 0.0625

Average Factor (AF) of Bluetooth in dB = $20 \log_{10} (0.0625)$ = -24 dB



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8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is 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 40 GHz, whichever is lower. For line conducted emissions, the range scanned is 150 kHz to 30 MHz.



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8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.4 (2009).

The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.



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8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.





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8.4.2 Conducted Emission Test Procedures

For tabletop equipment, the EUT along with its peripherals were placed on a $1.0m(W) \times 1.5m(L)$ and 0.8m in height wooden table. For floor-standing equipment, the EUT and all cables were insulated, if required, from the ground plane by up to 12 mm of insulating material. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were moved to find the maximum emission.

8.4.3 Conducted Emission Test Setup





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9.0 Equipment List

1) Radiated Emissions Test

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Equipment	EMI Test Receiver	Spectrum Analyzer
Registration No.	EW-3095	EW-2466
Manufacturer	R&S	R&S
Model No.	ESCI	FSP30
Calibration Date	Oct. 16, 2014	Sep. 02, 2014
Calibration Due Date	Oct. 16, 2015	Sep. 02, 2015

Equipment	BiConiLog Antenna	Pyramidal Horn	Double Ridged Guide
		Antenna	Antenna
Registration No.	EW-3061	EW-0905	EW-1015
Manufacturer	EMCO	EMCO	EMCO
Model No.	3412E	3160-09	3115
Calibration Date	Jul. 17, 2014	Jan. 28, 2014	Oct. 28, 2014
Calibration Due Date	Jul. 17, 2015	Jul. 28, 2015	Apr. 28, 2016

2) Conducted Emissions Test

Equipment	EMI Test Receiver	LISN
Registration No.	EW-2500	EW-2501
Manufacturer	R&S	R&S
Model No.	ESCI	ENV-216
Calibration Date	Nov. 06, 2014	Jan. 15, 2015
Calibration Due Date	Nov. 06, 2015	Jan. 15, 2016

3) Bandedge Measurement

Equipment	Spectrum Analyzer
Registration No.	EW-2249
Manufacturer	R&S
Model No.	FSP30
Calibration Date	Nov. 19, 2014
Calibration Due Date	Nov. 19, 2015

END OF TEST REPORT