



## STC Test Report

Date: 2014-09-04

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No.: MH190535

**Applicant :** Audio Partnership Plc.  
Gallery Court, Hankey Place, London, SE1 4BB United Kingdom

**Manufacturer:**

**Description of Sample(s):** Submitted sample(s) said to be  
Product: TV Speaker Base with Bluetooth  
Brand Name: Cambridge Audio  
Model Number: TV2  
FCC ID: YKBMTV25-018

**Date Sample(s) Received:** 2014-08-13

**Date Tested:** 2014-08-14 to 2014-08-21

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2012. FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02 and ANSI C63.4:2009 for FCC Certification.

**Conclusion(s):** The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remark(s):** Bluetooth DTS (GFSK)

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Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

**The Hong Kong Standards and Testing Centre Ltd.**  
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### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate  
New Territories, Hong Kong

Telephone: 852 2666 1888  
Fax: 852 2664 4353

#### **1.2 Equipment Under Test [EUT]**

##### **Description of Sample(s)**

Product: TV Speaker Base with Bluetooth  
Manufacturer: Audio Partnership Plc.  
Gallery Court, Hankey Place, London, SE1 4BB United Kingdom  
Brand Name: Cambridge Audio  
Model Number: TV2  
Rating: 24Vd.c. with Jack  
The AC/DC adaptor was provided by the applicant with following details:  
Brand name: Cambridge Audio; Model no.:TP06-240250W; Input: 100-240Va.c. 50/60Hz  
1.5A MAX ; Output: 24Vd.c. 2.5A.

##### **1.2.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a TV Speaker Base with Bluetooth of Audio Partnership Plc., it is Audio System, modulation by IC; and type is frequency hopping speed spectrum Modulation.

#### **1.3 Date of Order**

2014-08-13

#### **1.4 Submitted Sample(s):**

1 Sample

#### **1.5 Test Duration**

2014-08-14 to 2014-08-21

#### **1.6 Country of Origin**

China

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### 1.7 RF Module Details

Module Model Number:           GWB8C  
Module Transmission Type:    Bluetooth DTS  
Modulation:                    GFSK  
Data Rates:                    1Mbps  
Frequency Range:              2400-2483.5MHz  
Carrier Frequencies:          2402MHz – 2480MHz

Module Specification (specification provided by manufacturer)

### 1.8 Antenna Details

Antenna Type:                    Meander line antenna  
Antenna Length:                13.7mm  
Antenna Gain:                    2.0dBi

### 1.9 Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

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### **2.0** **Technical Details**

#### **2.1** **Investigations Requested**

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2012 Regulations. FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02 and ANSI C63.4:2009 for FCC Certification.

#### **2.2** **Test Standards and Results Summary Tables**

<b>EMISSION</b>						
<b>Results Summary</b>						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Maximum Peak Output Power	FCC 47CFR 15.247(b)(3)	FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Spurious Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Spectral Density	FCC 47CFR 15.247(e)	FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Band Edge Emissions (Radiated)	FCC 47CFR 15.247(d)	FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF Exposure	FCC 47CFR 15.247(i)	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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### **3.0 Test Results**

#### **3.1 Emission**

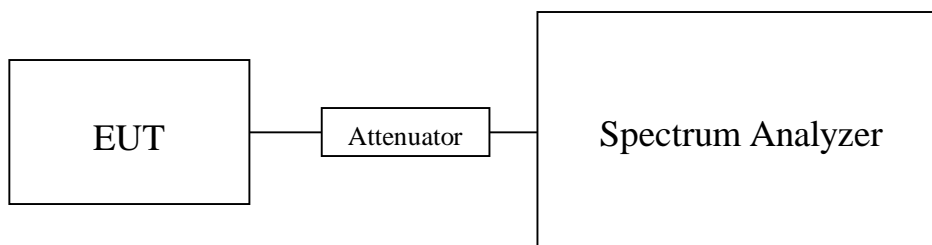
##### **3.1.1 Maximum Peak Output Power**

Test Requirement:	FCC 47CFR 15.247(b)(3)
Test Method:	FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02
Test Date:	2014-08-15
Mode of Operation:	Bluetooth DTS Tx mode

#### **Test Method:**

The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in mW.

#### **Test Setup:**



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### **Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:**

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

<b>Results of BT DTS Tx Mode (2402MHz to 2480MHz) : Pass (TX Unit) (GFSK)</b>		
<b>Maximum conducted output power</b>		
<b>Channel</b>	<b>Frequency(MHz)</b>	<b>Output Power(Watt)</b>
0	2402	0.00220
20	2442	0.00232
39	2480	0.00240

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB  
1GHz to 26GHz 1.7dB

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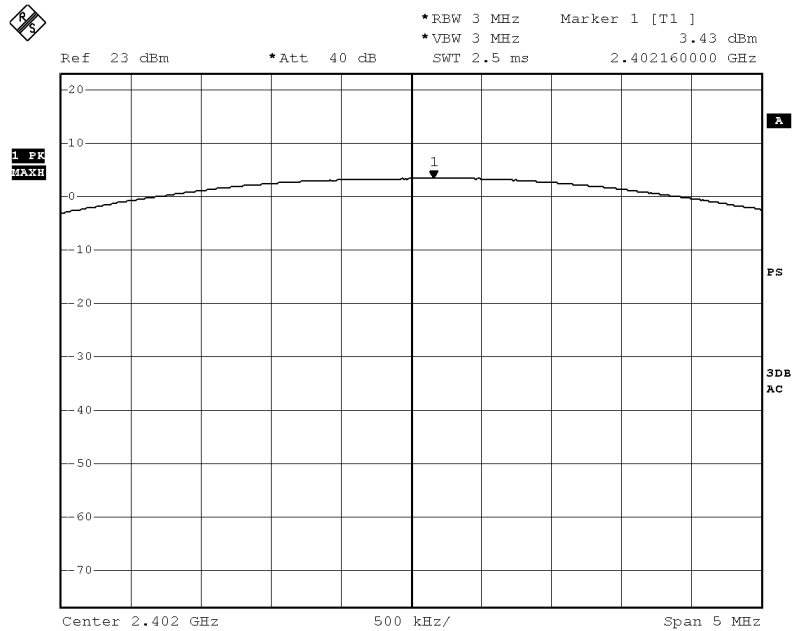
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Test plot of Maximum Peak Conducted Output Power :

Bluetooth Communication mode (BT DTS-GFSK, 2402MHz)



Date: 15.AUG.2014 10:21:48

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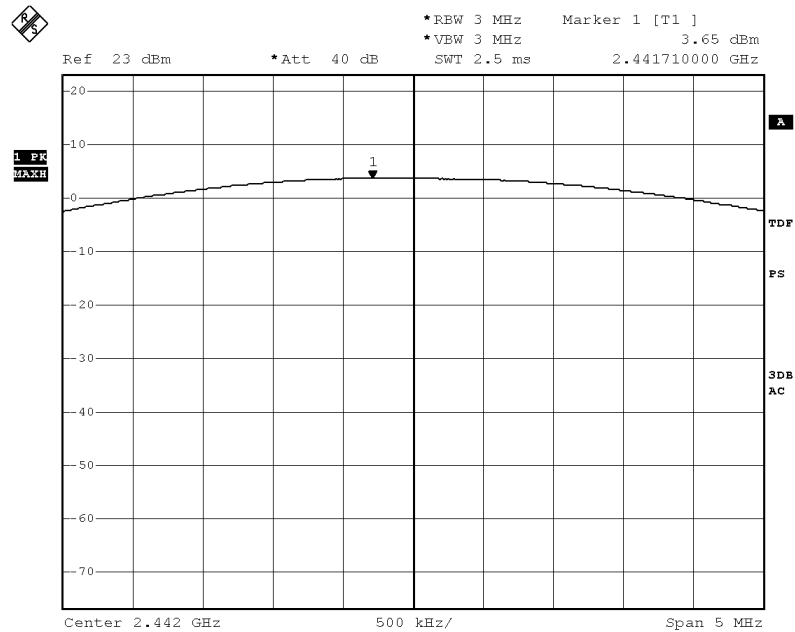
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### Bluetooth Communication mode (BT DTS-GFSK, 2442MHz)



Date: 15.AUG.2014 10:22:31



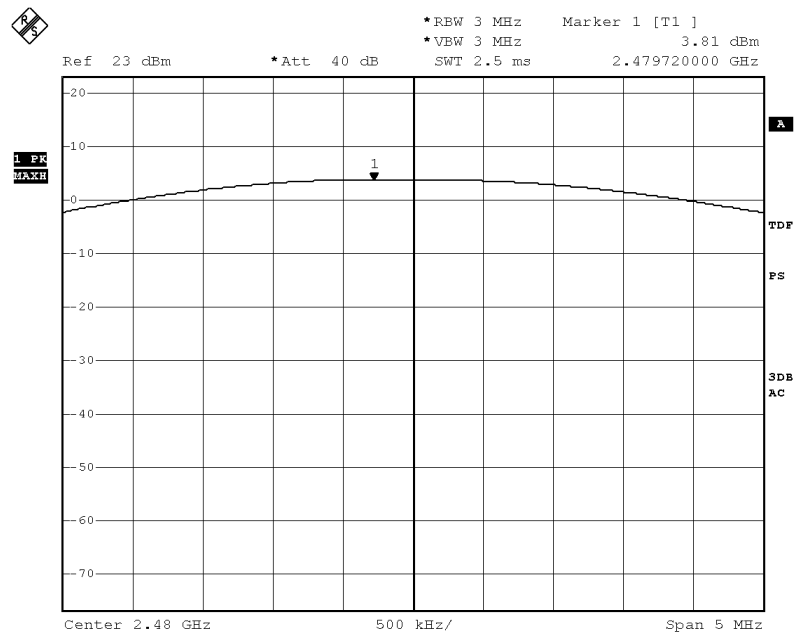
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### Bluetooth Communication mode (BT DTS-GFSK, 2480MHz)



Date: 15.AUG.2014 10:23:06



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### 3.1.2 Radiated Emissions

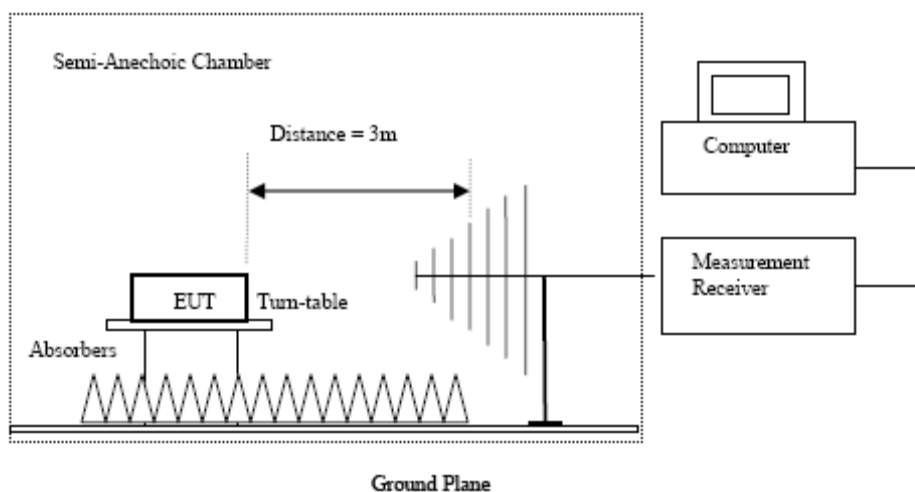
Test Requirement: FCC 47CFR 15.209  
Test Method: ANSI C63.4:2009  
Test Date: 2014-08-19  
Mode of Operation: Bluetooth DTS Tx mode

#### Test Method:

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

#### Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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### **Limits for Radiated Emissions [FCC 47 CFR 15.247 Class B]:**

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu$ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### **Result of Bluetooth Communication mode (GFSK) (9kHz – 30MHz): Pass**

The Low Frequency, which started from 9KHz to 30MHz, was Pre-scan and the result which was more than 20dB lower than the Limit line.

### **Result of Tx mode (2402.0 MHz) (GFSK) (Above 1GHz): Pass**

<b>Field Strength of Spurious Emissions</b>						
<b>Peak Value</b>						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
4804.0	13.7	41.5	55.2	74.0	18.8	Vertical
4804.0	11.2	42.4	53.6	74.0	20.4	Horizontal
7206.0	10.1	45.1	55.2	74.0	18.8	Vertical
7206.0	7.7	46.2	53.9	74.0	20.1	Horizontal
9608.0	8.2	48.0	56.2	74.0	17.8	Vertical
9608.0	7.1	48.8	55.9	74.0	18.1	Horizontal
12010.0	3.8	51.5	55.3	74.0	18.7	Vertical
12010.0	3.6	52.4	56.0	74.0	18.0	Horizontal

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Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
4804.0	0.1	41.5	41.6	54.0	12.4	Vertical
4804.0	-3.8	42.4	38.6	54.0	15.4	Horizontal
7206.0	-5.0	45.1	40.1	54.0	13.9	Vertical
7206.0	-6.4	46.2	39.8	54.0	14.2	Horizontal
9608.0	-6.0	48.0	42.0	54.0	12.0	Vertical
9608.0	-8.3	48.8	40.5	54.0	13.5	Horizontal
12010.0	-11.3	51.5	40.2	54.0	13.8	Vertical
12010.0	-10.5	52.4	41.9	54.0	12.1	Horizontal

Result of Tx mode (2442.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
4884.0	12.8	41.6	54.4	74.0	19.6	Vertical
4884.0	11.8	42.5	54.3	74.0	19.7	Horizontal
7326.0	9.7	45.2	54.9	74.0	19.1	Vertical
7326.0	9.6	46.3	55.9	74.0	18.1	Horizontal
9768.0	7.8	48.1	55.9	74.0	18.1	Vertical
9768.0	7.1	48.9	56.0	74.0	18.0	Horizontal
12210.0	3.7	51.6	55.3	74.0	18.7	Vertical
12210.0	3.6	52.5	56.1	74.0	17.9	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
4884.0	-2.2	41.6	39.4	54.0	14.6	Vertical
4884.0	-3.3	42.5	39.2	54.0	14.8	Horizontal
7326.0	-6.1	45.2	39.1	54.0	14.9	Vertical
7326.0	-5.8	46.3	40.5	54.0	13.5	Horizontal
9768.0	-7.1	48.1	41.0	54.0	13.0	Vertical
9768.0	-8.8	48.9	40.1	54.0	13.9	Horizontal
12210.0	-12.4	51.6	39.2	54.0	14.8	Vertical
12210.0	-10.7	52.5	41.8	54.0	12.2	Horizontal

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### Result of Tx mode (2480.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
4960.0	14.6	41.4	56.0	74.0	18.0	Vertical
4960.0	11.5	42.7	54.2	74.0	19.8	Horizontal
7440.0	11.0	45.6	56.6	74.0	17.4	Vertical
7440.0	7.6	46.5	54.1	74.0	19.9	Horizontal
9920.0	5.8	48.6	54.4	74.0	19.6	Vertical
9920.0	6.2	49.7	55.9	74.0	18.1	Horizontal
12400.0	4.0	51.7	55.7	74.0	18.3	Vertical
12400.0	2.7	52.7	55.4	74.0	18.6	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
4960.0	0.5	41.4	41.9	54.0	12.1	Vertical
4960.0	-2.5	42.7	40.2	54.0	13.8	Horizontal
7440.0	-4.6	45.6	41.0	54.0	13.0	Vertical
7440.0	-4.8	46.5	41.7	54.0	12.3	Horizontal
9920.0	-8.7	48.6	39.9	54.0	14.1	Vertical
9920.0	-9.5	49.7	40.2	54.0	13.8	Horizontal
12400.0	-11.7	51.7	40.0	54.0	14.0	Vertical
12400.0	-11.9	52.7	40.8	54.0	13.2	Horizontal

#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty  
(9kHz-30MHz): 2.0dB  
(30MHz -1GHz): 4.9dB  
(1GHz -6GHz): 4.02dB  
(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst -case test results are recorded in this report.

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### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

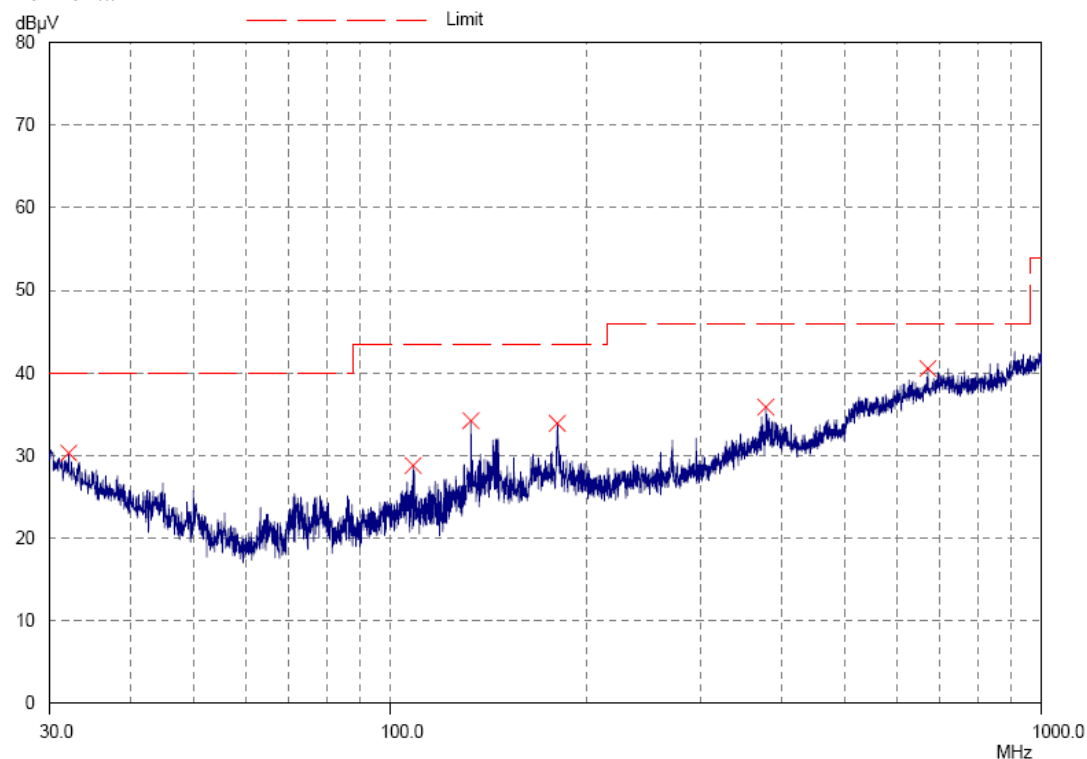
Frequency Range [MHz]	Quasi-Peak Limits [ $\mu\text{V}/\text{m}$ ]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Result of Bluetooth Communication mode (EUT paired with iPod) (30MHz – 1GHz): Pass

Please refer to the following table for result details

Horizontal



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### **Result of Bluetooth Communication mode (EUT paired with iPod) (30MHz – 1GHz): Pass**

<b>Radiated Emissions</b>					
<b>Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Level @3m $\mu$ V/m	Limit @3m $\mu$ V/m
32.1	Horizontal	30.3	40.0	32.8	100
108.5	Horizontal	28.8	43.5	27.5	150
133.1	Horizontal	34.2	43.5	51.3	150
180.7	Horizontal	33.9	43.5	49.5	150
377.5	Horizontal	35.9	46.0	62.2	200
669.3	Horizontal	40.0	46.0	100.0	200

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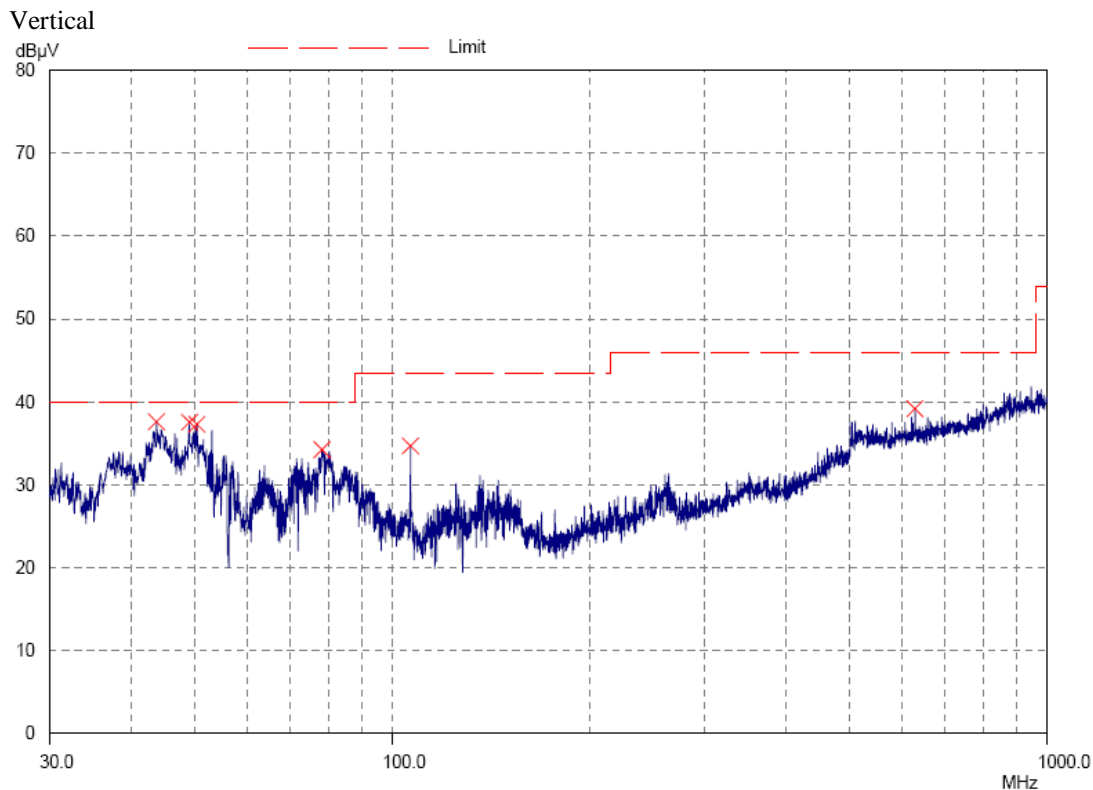
### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu\text{V}/\text{m}$ ]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Result of Bluetooth Communication mode (EUT paired with iPod) (30MHz – 1GHz): Pass

Please refer to the following table for result details



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### **Result of Bluetooth Communication mode (EUT paired with iPod (30MHz – 1GHz): Pass**

<b>Radiated Emissions</b>					
<b>Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Level @3m $\mu$ V/m	Limit @3m $\mu$ V/m
43.7	Vertical	36.5	40.0	66.8	100
49.1	Vertical	36.0	40.0	63.1	100
50.3	Vertical	36.1	40.0	63.8	150
78.1	Vertical	34.3	40.0	51.6	100
106.6	Vertical	34.7	43.5	54.3	150
628.4	Vertical	39.2	46.0	90.8	200

#### Remarks:

Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst -case test results are recorded in this report.

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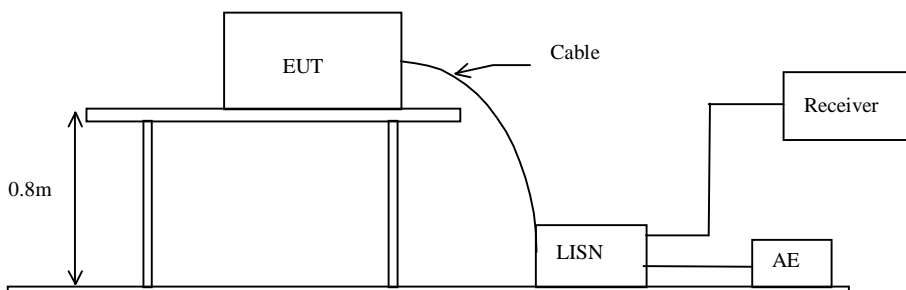
### 3.1.3 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.4:2009
Test Date:	2014-08-16
Mode of Operation:	Bluetooth Communication mode (GFSK)
Test Voltage:	120V a.c., 60Hz

#### Test Method:

The test was performed in accordance with ANSI C63.4: 2009, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### Test Setup:



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### Limit for Conducted Emissions (FCC 47 CFR 15.207):

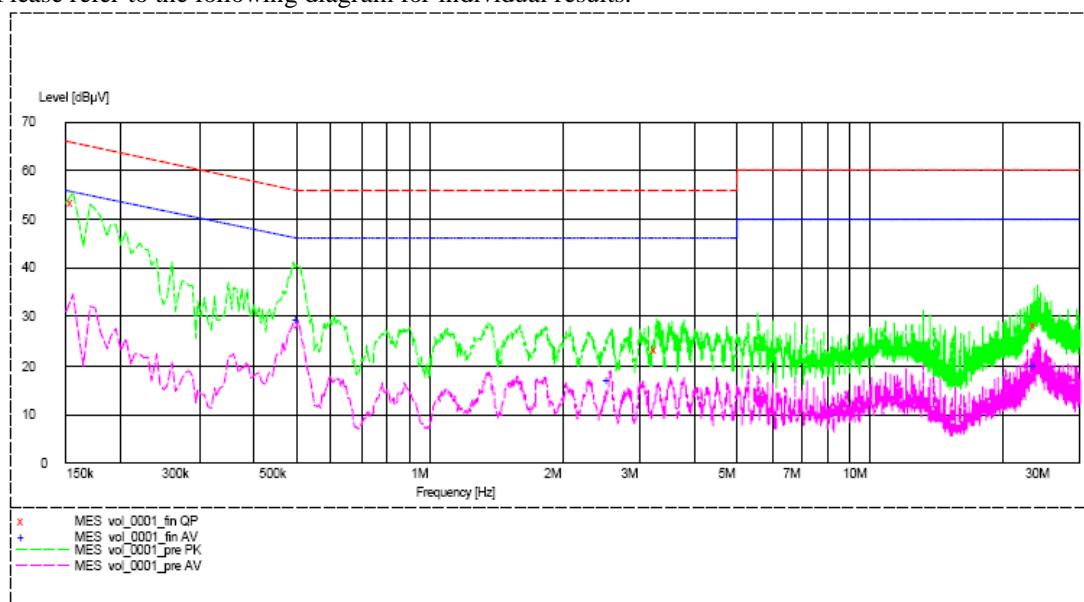
Frequency Range [MHz]	Quasi-Peak Limits [dB $\mu$ V]	Average [dB $\mu$ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Result of Bluetooth Communication mode (EUT paired with iPod) (L): PASS

Please refer to the following diagram for individual results.



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB $\mu$ V	Limit dB $\mu$ V	Level dB $\mu$ V	Limit dB $\mu$ V
Live	0.155	53.4	66.0	-*	46.0
Live	3.295	23.4	56.0	-*	46.0
Live	23.885	28.4	60.0	20.3	50.0
Live	0.505	-*	-*	29.5	46.0
Live	2.570	-*	-*	17.1	46.0



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### Limit for Conducted Emissions (FCC 47 CFR 15.207):

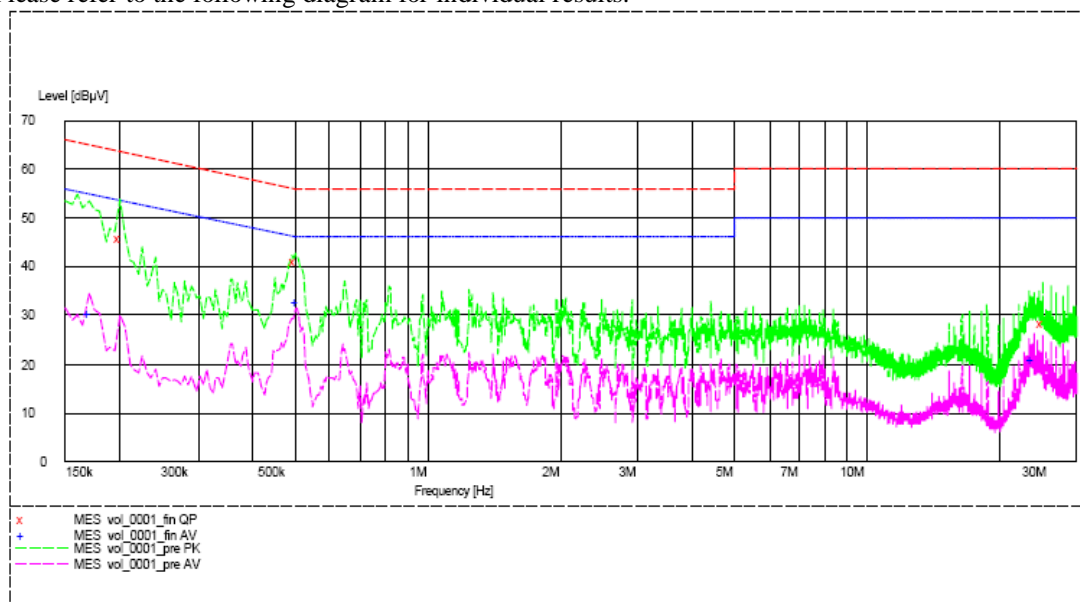
Frequency Range [MHz]	Quasi-Peak Limits [dB $\mu$ V]	Average [dB $\mu$ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Result of Bluetooth Communication mode (EUT paired with iPod) (N): PASS

Please refer to the following diagram for individual results.



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB $\mu$ V	Limit dB $\mu$ V	Level dB $\mu$ V	Limit dB $\mu$ V
Neutral	0.170	-*-	-*-	30.2	55.0
Neutral	0.505	-*-	-*-	32.7	46.0
Neutral	23.920	-*-	-*-	21.0	50.0
Neutral	0.200	45.9	64.0	-*-	-*-
Neutral	0.500	41.0	56.0	-*-	-*-
Neutral	24.990	28.3	60.0	-*-	-*-

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

-\*- Emission(s) that is far below the corresponding limit line.

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### 3.1.4 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)  
Test Method: FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02  
Test Date: 2014-08-15  
Mode of Operation: Bluetooth DTS Tx mode

#### Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz , VBW= 10KHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

#### Test Setup:

As Test Setup of clause 3.1.1 in this test report.

#### Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

#### Results of Bluetooth DTS Mode (Tx:2402MHz to 2480MHz) : Pass (TX Unit)

##### Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2402.0	-12.34	8dBm
2442.0	-12.19	8dBm
2480.0	-11.86	8dBm

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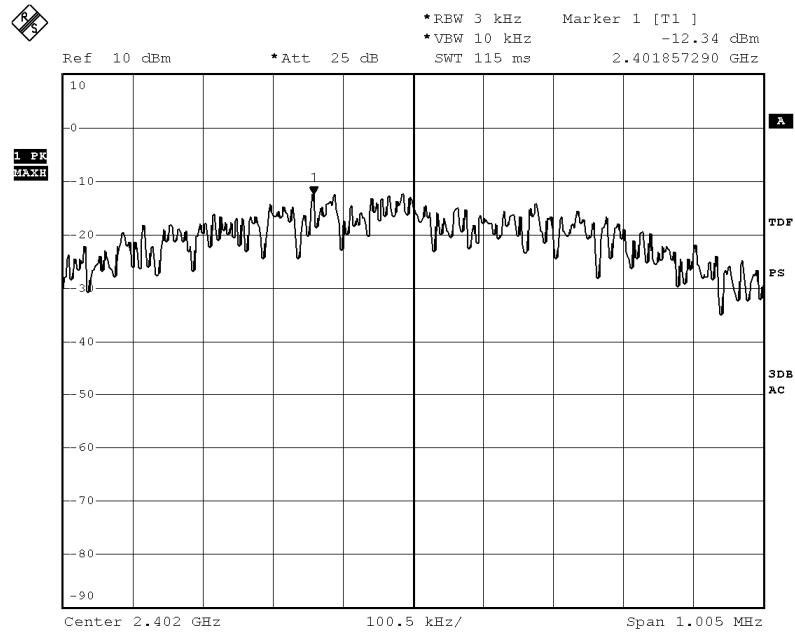
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### Bluetooth DTS mode (Tx: 2402MHz to 2480MHz) 2402.0 MHz



Date: 15.AUG.2014 10:27:02





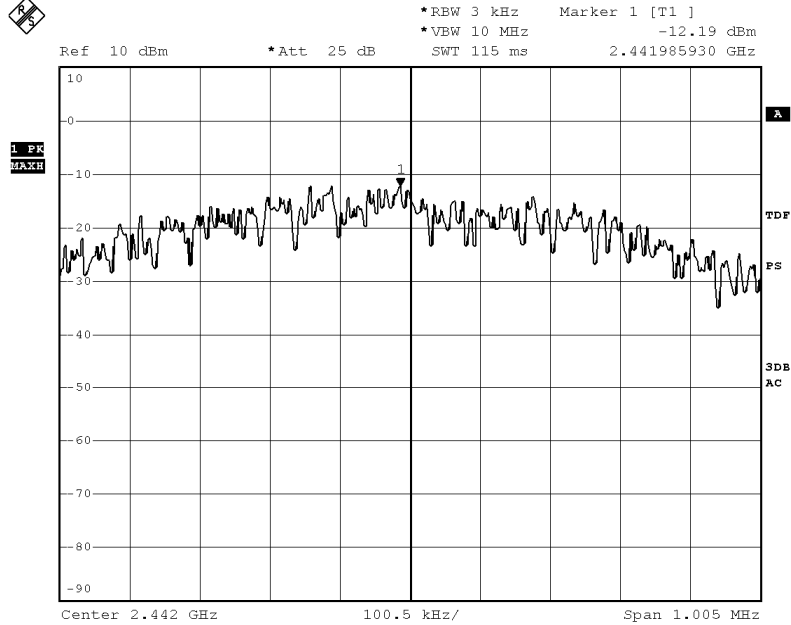
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2442.0 MHz



Date: 15.AUG.2014 10:25:50

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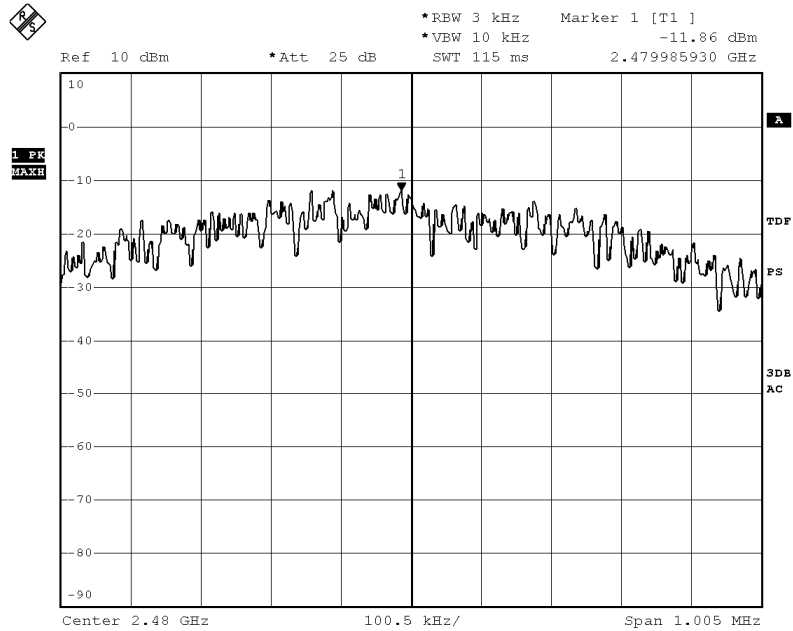
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2480.0 MHz



Date: 15.AUG.2014 10:24:29

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### **3.1.5 6dB Bandwidth Measurement**

Test Requirement:	FCC 47CFR 15.247(a)(2)
Test Method:	FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02
Test Date:	2014-08-14
Mode of Operation:	Bluetooth DTS Tx mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.



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Date: 2014-09-04

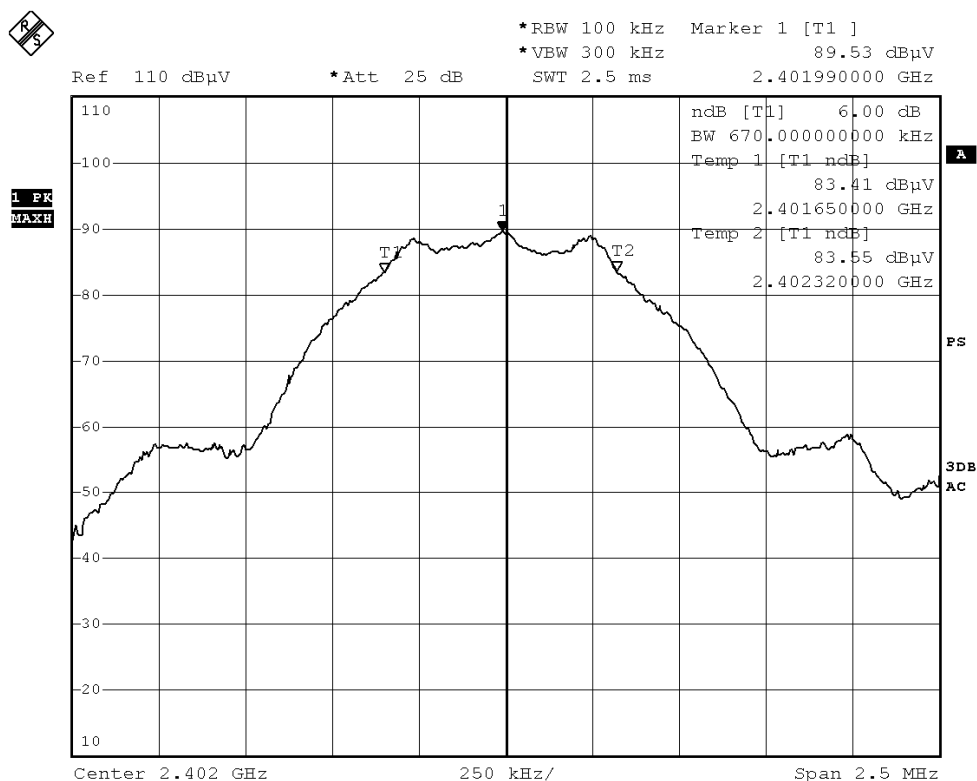
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### Limits for 6dB Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2402.0	0.670	> 500

### 6 dB Bandwidth Plot on Configuration Bluetooth DTS (GFSK: 2402MHz)



Date: 14.AUG.2014 22:37:27

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Date: 2014-09-04

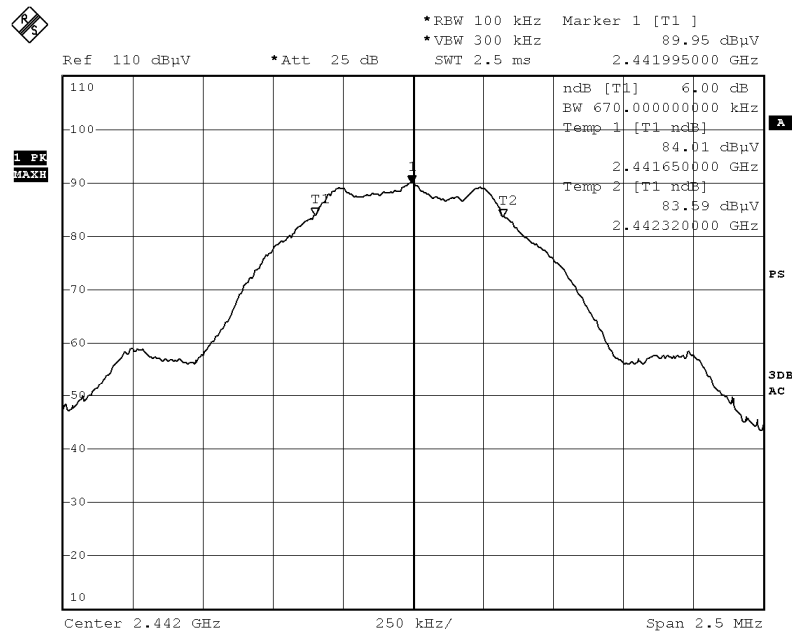
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### Limits for 6dB Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2442.0	0.670	> 500

6 dB Bandwidth Plot on Configuration Bluetooth DTS (GFSK: 2442MHz)



Date: 14.AUG.2014 22:37:03



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Date: 2014-09-04

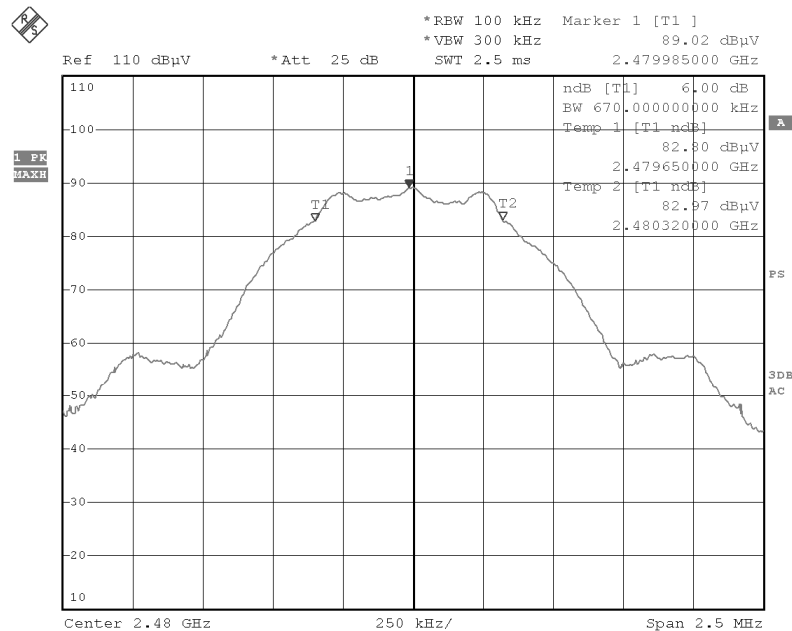
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### Limits for 6dB Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2480.0	0.670	> 500

6 dB Bandwidth Plot on Configuration Bluetooth DTS (GFSK: 2480MHz)



Date: 14.AUG.2014 22:36:30



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### **3.1.6 Band Edges Measurement**

Test Requirement:	FCC 47CFR 15.247
Test Method:	FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02
Test Date:	2014-08-14
Mode of Operation:	Bluetooth DTS Tx mode

#### **Test Method:**

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW and VBW are set to 100kHz for this measurement.

#### **Test Setup:**

As Test Setup of clause 3.1.2 in this test report.



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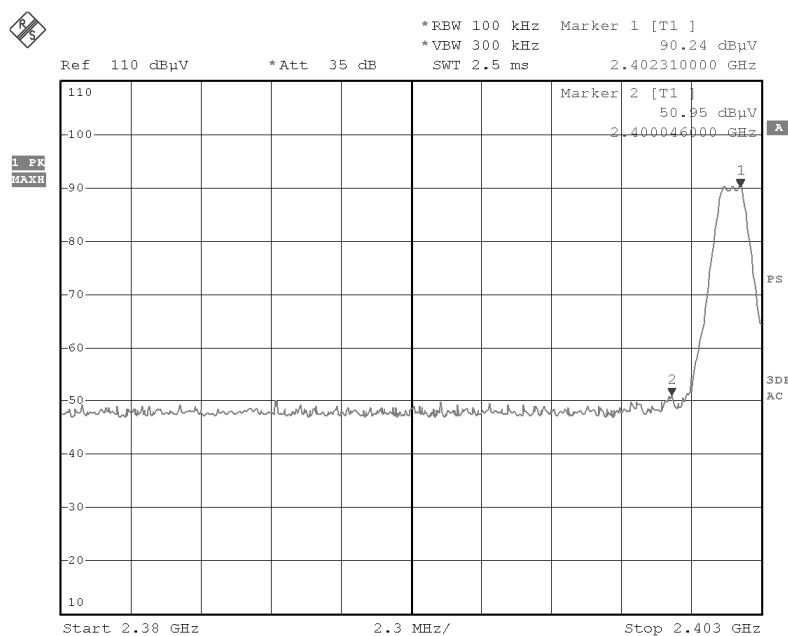
### Band-edge Compliance of RF Conducted Emissions Measurement:

#### 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.

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2400 – Lowest Fundamental (2402)	39.29

### Band-edge Compliance of RF Conducted Emissions – Lowest (GFSK: Bluetooth DTS mode 2402MHz)



Date: 14.AUG.2014 22:34:01

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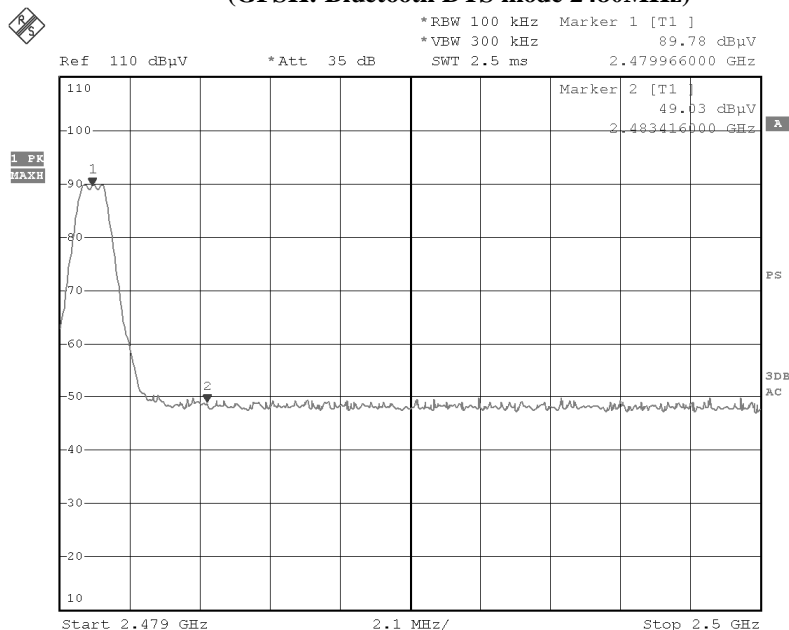
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### Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2483.5 - Highest Fundamental (2480)	40.76

### Band-edge Compliance of RF Conducted Emissions – Highest (GFSK: Bluetooth DTS mode 2480MHz)



Date: 14.AUG.2014 22:35:07



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### **Band-edge Compliance of RF Radiated Emissions 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 5.205(c)).

#### **Result: Band-edge Compliance of RF Radiated Emissions (Lowest)**

<b>Field Strength of Band-edge Compliance Peak Value</b>						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2400.0	17.8	36.1	53.9	74.0	20.1	Vertical

<b>Field Strength of Band-edge Compliance Average Value</b>						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2400.0	4.7	36.1	40.8	54.0	13.2	Vertical

#### **Result: Band-edge Compliance of RF Radiated Emissions (Highest)**

<b>Field Strength of Band-edge Compliance Peak Value</b>						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2483.5	17.3	35.4	52.7	74.0	21.3	Horizontal

<b>Field Strength of Band-edge Compliance Average Value</b>						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2483.5	5.2	35.4	40.6	54.0	13.4	Horizontal

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### **3.1.7 Antenna Requirement**

**Test Requirements: § 15.203**

**Test Specification:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

**Test Results:**

This is Meander line antenna. There is no external antenna, the antenna gain = 2.0dBi.  
All component install on inside of EUT. User unable to remove or changed the Antenna.

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### **3.1.8 RF Exposure**

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2014-8-21

Mode of Operation: Tx mode

#### **Test Method:**

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

#### **Test Results:**

The EUT complied with the requirement(s) of this section.

EUT meets the requirements of these sections as proven through MPE calculation

The MPE calculation for EUT @ 20cm

Based on the highest P = 2.404 mW

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (2.404 \times 1.58) / 12.566 \times (20)^2 \\ &= (3.7983) / 12.566 \times 400 = 3.7983 / 5026.4 \\ &= 0.000756 \text{ mW/cm}^2 \end{aligned}$$

where:

\*Pd = power density in mW/cm<sup>2</sup>

\* G = Antenna numeric gain (1.58); Log G = g/10 ( g = 2.0dBi ).

\* P = Conducted RF power to antenna (2.404 mW).

\* R = Minimum allowable distance.(20 cm)

\*The power density Pd = 0.000756 mW/cm<sup>2</sup> is less than 1 mW/cm<sup>2</sup> (listed MPE limit)

\*The SAR evaluation is not needed ( this is a desk top device, R > 20 cm )

\* The EUT( antenna ) must be 0.2 meters away from the General Population.

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### Appendix A

#### List of Measurement Equipment

##### Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2014/01/15	2016/01/25
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2014/01/23	2016/01/23
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2013/10/02	2014/10/02
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2013/04/25	2015/04/25
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2014/01/15	2016/01/15
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2014/05/26	2015/05/26

##### Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2013/11/25	2014/11/25
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2014/05/26	2015/05/26
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2014/01/24	2015/01/24
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2012/02/03	2017/02/03

Remarks:-

N/A Not Applicable or Not Available

### Appendix B

#### Ancillary Equipment

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	iPod Touch	A1367	BCG-E2407	N/A

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### Appendix C

#### Photographs of EUT

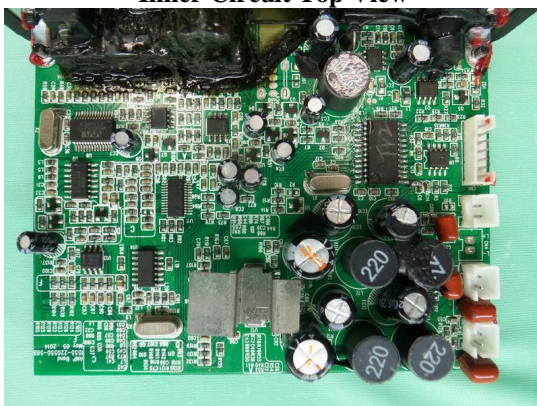
**Front View of the product**



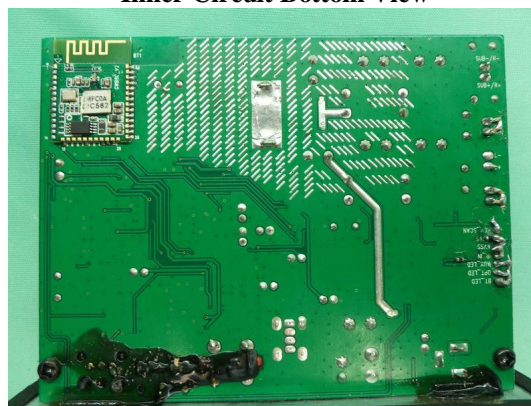
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**







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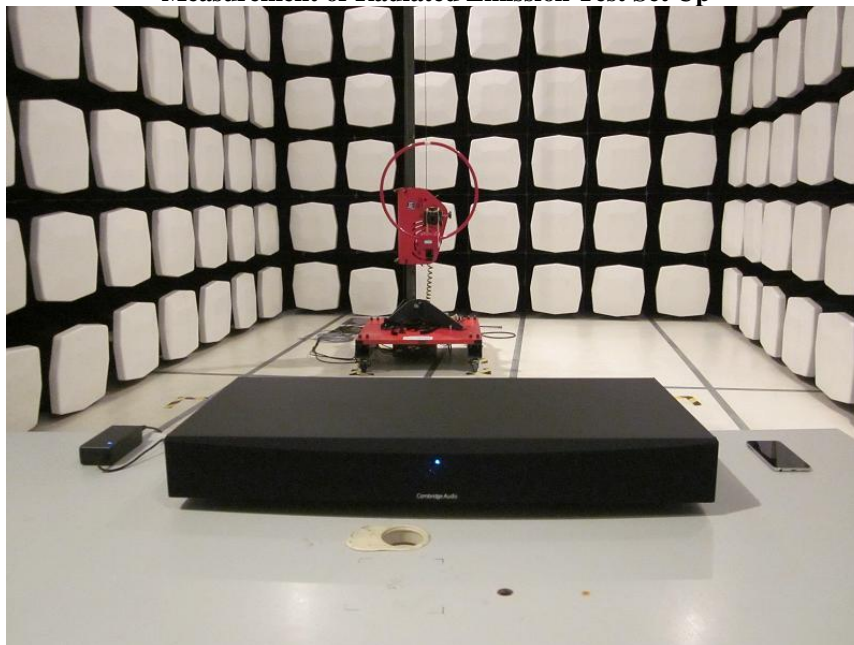
Date: 2014-09-04

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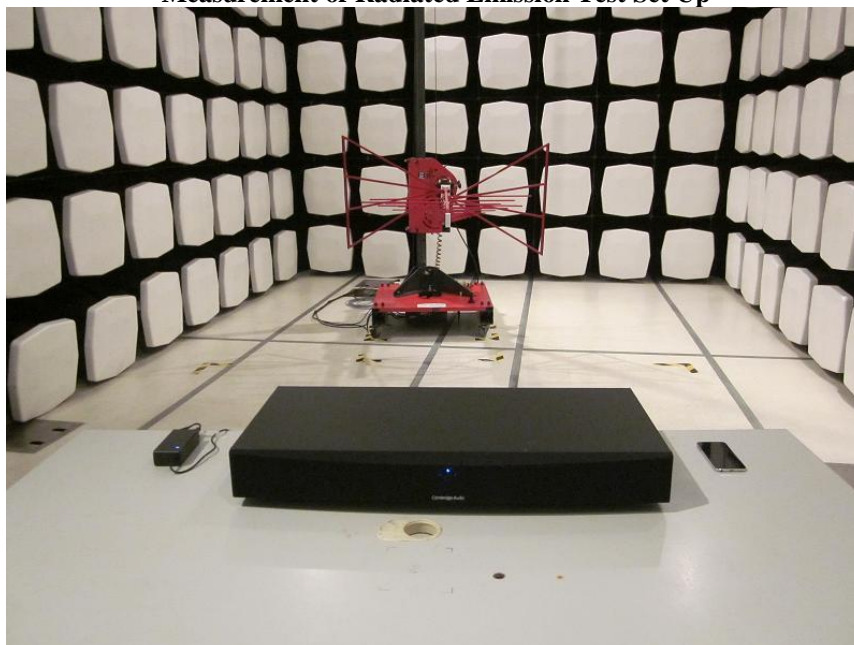
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### Photographs of EUT

**Measurement of Radiated Emission Test Set Up**



**Measurement of Radiated Emission Test Set Up**



**The Hong Kong Standards and Testing Centre Ltd.**

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## STC Test Report

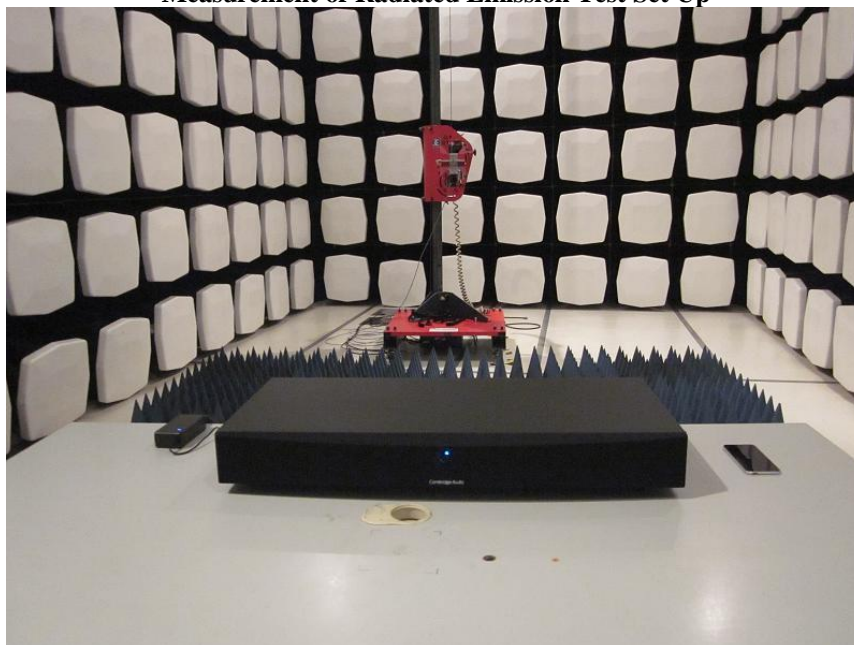
Date: 2014-09-04

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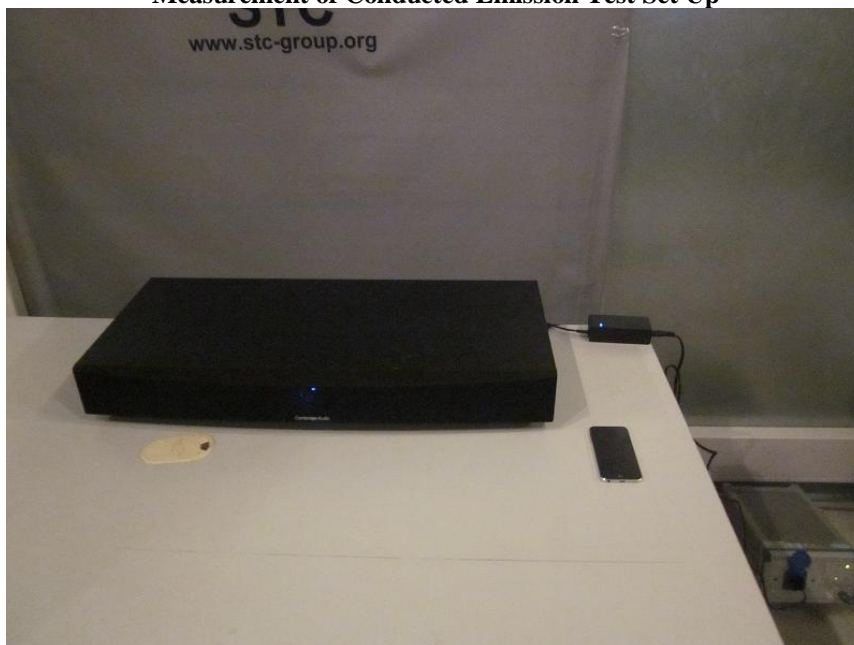
No.: MH190535

### Photographs of EUT

**Measurement of Radiated Emission Test Set Up**



**Measurement of Conducted Emission Test Set Up**



**\*\*\*\*\* End of Test Report \*\*\*\*\***

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