

FCC TEST REPORT

for

HUIYANG TECHNOLOGY CO.,LTD

Bluetooth Music Receiver

Model Number: BT-MP

Prepared for: HUIYANG TECHNOLOGY CO.,LTD

Address : 406Room, 365Dezheng west Road, Chang An Town, Dongguan City,

Guangdong Province, China

Prepared By: NS Technology Co., Ltd.

Address : Chenwu Industrial Zone, Houjie Town, Dongguan City,

Guangdong, China

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Report Number : NSE-F10054776 Date of Test : May 4~May 10, 2010

Date of Report : May 11, 2010

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NS Technology Co., Ltd.

Applicant: HUIYANG TECHNOLOGY CO.,LTD

Address: 406Room,365Dezheng west Road,ChangAn Town,Dongguan City,

Guangdong Province, China

Manufacturer: HUIYANG TECHNOLOGY CO.,LTD

Address: 406Room,365Dezheng west Road,ChangAn Town,Dongguan City,

Guangdong Province, China

E.U.T: Bluetooth Music Receiver

Model Number: BT-MP

Trade Name: ----- Operating Frequency: 2402~2480MHz

Date of Receipt: Mar.5, 2010 **Date of Test:** May 4~May 10, 2010

Test Specification: FCC Part 15 Subpart C: Oct. 1, 2009

ANSI C63.4:2003

Test Result: The equipment under test was found to be compliance with the requirements of

the standards applied.

Issue Date: May 11, 2010

Tested by: Reviewed by: Approved by:

Jade Trementer

Jade/ Engineer Iceman Hu / Supervisor Steven Lee / Manager

Other Aspects:

None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of NS Technology Co., Ltd.

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

E.U.T. : Bluetooth Music Receiver

Model No. : BT-MP

Operating Frequency : 2402~2480MHz Number of Channels : 79 Channels

Channel frequency $F = 2402 + K \quad K=1,2,\dots...78$

Type of Modulation : FHSS
Antenna Type : Integral
Antenna Gain : 0.5dBi

 $\begin{array}{lll} \text{System Input Voltage} & : & AC \ 120V/60Hz \\ \text{Output} & : & DC \ 5V/500mA \end{array}$

Temperature Range(Operating) : $0 \sim +40^{\circ}C$

Earphone Line :Unshielded,Detachable ,1.5m

1.3. Difference between Model Numbers

Note: The products are different for the plug and appearance colors, But the others are identical.

1.4. Independent Operation Modes

The basic operation modes are:

- 1.4.1. Low Channel (2402MHz)
- 1.4.2. Middle Channel (2441MHz)
- 1.4.3. High Channel (2480MHz)

2. TEST SITES

2.1. Test Facilities

EMC Lab : Accredited by TUV Rheinland, Germany

Date of registration: July 28, 2003

Accredited by CNAS, China Registration No.: L1744

Date of registration: November 25, 2004

Accredited by Intertek ETL SEMKO

Registration No.: TMP-013

Date of registration: June 11, 2005

Accredited by TUV/PS, Hong Kong Date of registration: December 1, 2005

Accredited by ATCB, USA

Date of registration: August 3, 2006

Accredited by VCCI, Japan

Member No.:2115

Registration No.: R-2527, R-3012 & C-2770

Date of registration: March 23, 2007

Accredited by FCC, USA Registration No.: 502831

Date of registration: February 9, 2009

Accredited by Industry Canada

Registration No.: 5936A

Date of registration: March 4, 2009

Accredited by American Association for Laboratory

Accreditation (A2LA), USA Certificate No.: 2951.01

Date of registration: March 31, 2010

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City,

Guangdong, China

2.2. List of Test and Measurement Instruments

2.2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCS30	100340	May 31,09	May 31,10
Artificial Mains	Rohde&Schwarz	ESH3-Z5	100317	May 31,09	May 31,10
Network					
Artificial Mains Network	Kyoritsu	KNW-407	8-1579-1	Jan.19,09	Jan.19,11
(AUX)					
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100168	May 2,10	May 2,11

2.2.2.For Transmitter Spurious Emissions (30MHz-1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCS30	100340	May 31,09	May 31,10
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Bilog Antenna	Teseq	CBL 6111D	25758	Oct. 27,09	Oct. 27,10
Signal Amplifier	Agilent	8447D	2944A10488	May 2,10	May 2,11
50Ω Coaxial Switch	ANRITSU	MP59B	6200530577	May 2,10	May 2,11

2.2.3.For Transmitter Spurious Emissions(1GHz-18GHz) and Band Edge Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Horn Antenna	EMCO	3117	00062558	Jan. 19,09	Jan. 19,11
Signal Amplifier	BURGEON	PEC-38-30M18G	NSEMC001	May 31,09	May 31,11
		-12-SFF			

2.2.4.For 20dB Bandwidth; Number of Hopping Frequency and Dwell time Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 31,09	May 31,10

2.2.5. For output power test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	Rohde&Schwarz	NRVS	101732	Jul.31,09	Jul.31,10
RF Probe	Rohde&Schwarz	URV5-Z4	100657	Jul.31,09	Jul.31,10

3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Simulators



(EUT: Bluetooth Music Receiver)

3.3. Test Operation Mode and Test Software

Refer to clause 1.4

3.4. Special Accessories and Auxiliary Equipment None.

3.5. Countermeasures to Achieve EMC Compliance None.

4. TEST SUMMARY

Test items and result lists

No.	Item	Standard	Results
1	Conduction Emission Test	FCC Part15C: 15.207 ANSI C63.4-2003 DA 00-705	PASS
2	Carrier Frequency Separation	FCC Part15C: 15.247 ANSI C63.4-2003 DA 00-705	PASS
3	20dB Bandwidth	FCC Part15: 15.247 DA 00-705	PASS
4	Number of Hopping Frequency	FCC Part15: 15.247 DA 00-705	PASS
5	Dwell time	FCC Part15: 15.247 DA 00-705	PASS
6	Band Edge	FCC Part15: 15.247 DA 00-705	PASS
7	Maximum Peak Output Power	FCC Part 15:15.247 DA 00-705	PASS
8	Transmitter Spurious Emissions	FCC Part 15:15.247 DA 00-705	PASS

5. EMISSION TEST RESULTS

5.1. Conducted Emission at The Mains Terminals Test

RESULT : **Pass**

Test procedure : FCC Part 15 Subpart C

Frequency range : 0.15~30MHz

Test Site : Shielded Room

Limits : FCC Part 15 Subpart C

Test Setup

Date of test : Jan. 20, 2010

Model No. : BT-MP

Input Voltage : AC 120V/60Hz

Operation Mode : TX Mode

The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 1 m, the excess was folded back and forth parallel to the cable at the centre so as to form a bundle no longer than 0.4 m

The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.

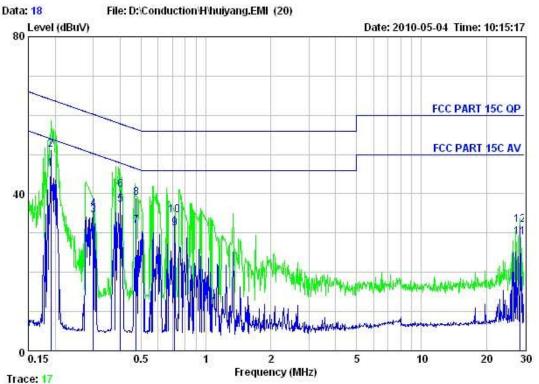
The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver (R&S ESCS30) was set at 9 kHz. The test data of the worst case condition(s) was reported on the following page.

Note: Test uncertainty: ± 2.54 dB at a level of confidence of 95%.:

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Test Site : 843 Shielded Room

Limit : FCC PART 15C QP LINE Phase:LINE

EUT : Bluetooth Music Receiver

Power : AC 120V/60Hz

M/N : BT-MP Test Engineer: Jade

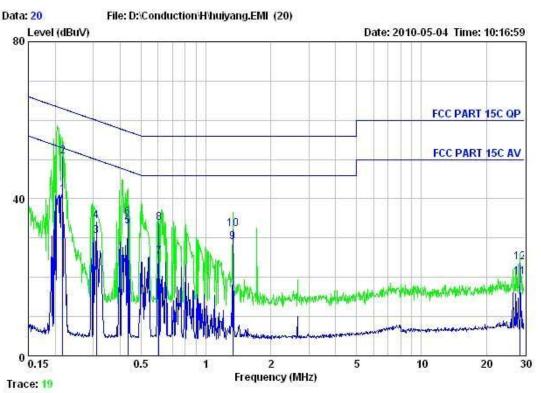
Comment : Temp:25.3'C Humi:55% Press:101.51kPa

Test Mode : TX Mode

	Freq.	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	46.31	54.02	7.71	Average
2	0.19	51.20	64.02	12.82	OP
3	0.30	34.43	50.24	15.81	Average
4	0.30	36.20	60.24	24.04	QP
5	0.40	37.30	47.81	10.51	Average
6	0.40	40.90	57.81	16.91	QP
7	0.47	31.86	46.45	14.59	Average
8	0.47	38.90	56.45	17.55	QP
9	0.72	31.17	46.00	14.83	Average
10	0.72	34.50	56.00	21.50	QP
11	28.75	29.01	50.00	20.99	Average
12	28.75	32.20	60.00	27.80	QP

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Test Site : 843 Shielded Room

Limit : FCC PART 15C QP LINE Phase:NEUTRAL

EUT : Bluetooth Music Receiver

Power : AC 120V/60Hz

M/N : BT-MP Test Engineer: Jade

Comment : Temp:25.3'C Humi:55% Press:101.51kPa

Test Mode : TX Mode

	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22	41.04	52.96	11.92	Average
2	0.22	50.80	62.96	12.16	QP
3	0.31	30.53	49.97	19.44	Average
4	0.31	34.30	59.97	25.67	QP
5	0.44	32.98	47.15	14.17	Average
6	0.44	35.30	57.15	21.85	QP
7	0.60	25.19	46.00	20.81	Average
8	0.60	33.90	56.00	22.10	QP
9	1.33	29.07	46.00	16.93	Average
10	1.33	32.40	56.00	23.60	QP
11	28.75	20.08	50.00	29.92	Average
12	28.75	23.90	60.00	36.10	QP

5.2. Carrier Frequency Separation

5.2.1. Test limits

1) FCC part 15C section 15.247(a)

5.2.2.Test procedure

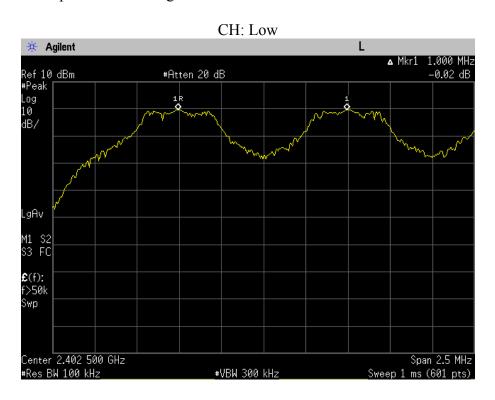
- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
- 3. Set SA Center Frequency = Operation frequency, RBW=100kHz, VBW=300kHz.
- 4. Set SA trace max hold, then view.

5.2.3.Test result

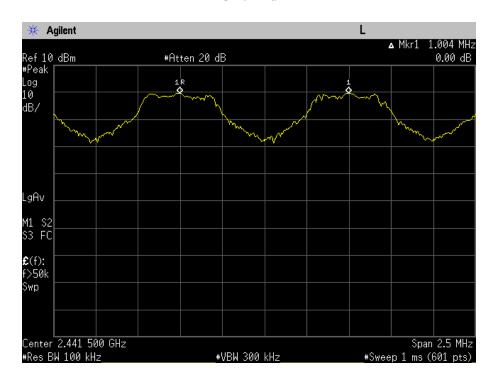
Pass

	Mode: Tx (Hopping on)					
СН	Frequency (MHz)	Channel Separation (MHz)	Limit	Result		
Low	2402.0	1.00		PASS		
Mid	2441.0	1.00	> 20dB Bandwidth or 25kHz (whichever is greater)	PASS		
High	2480.0	1.00		PASS		

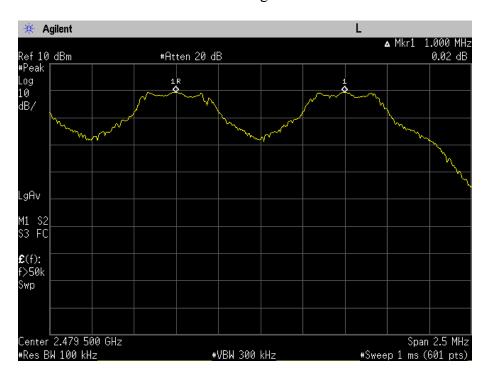
The test plots as following:



CH: Mid



CH: High



5.3. 20dB Bandwidth

5.3.1. Test limits

5.3.2.Test procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
- 3. Set SA Center Frequency = Operation frequency, RBW=30kHz, VBW=30kHz.
- 4. Set SA trace max hold, then view.

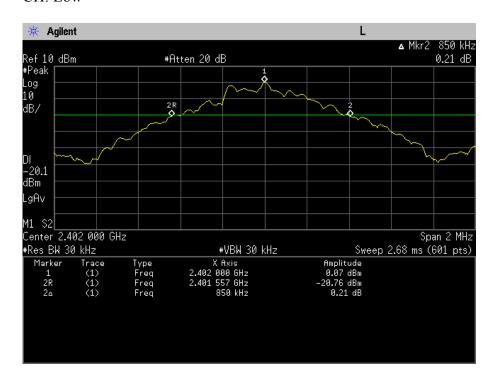
5.3.3. Test result

Pass

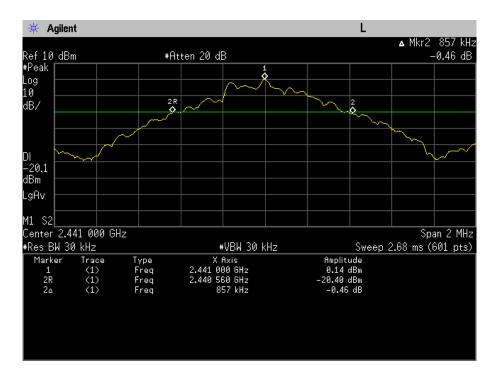
Test Channel	Frequency MHz	20dB bandwidth MHz	Conclusion
Low	2402.0	850	
Mid	2441.0	857	
High	2480.0	860	

The test plots as following:

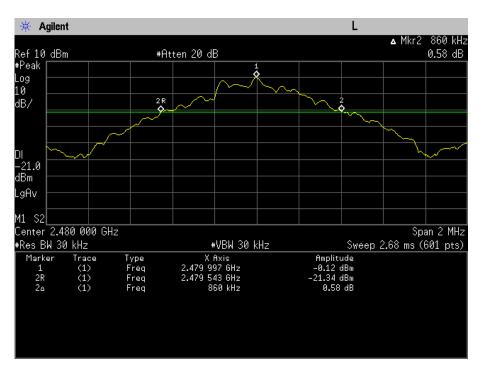
CH: Low



CH: Mid



CH: High



5.4. Number of Hopping Frequency

5.4.1.Test procedure

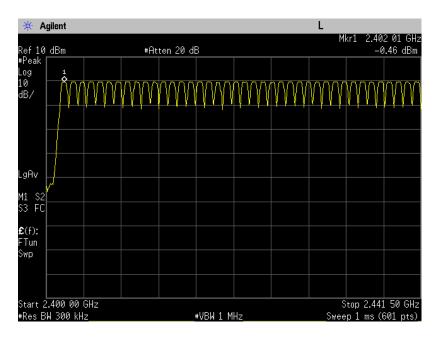
- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
- 3. Set SA Center Frequency = Operation frequency, RBW=300kHz,VBW=1MHz.
- 4. Set SA trace max hold, then view.

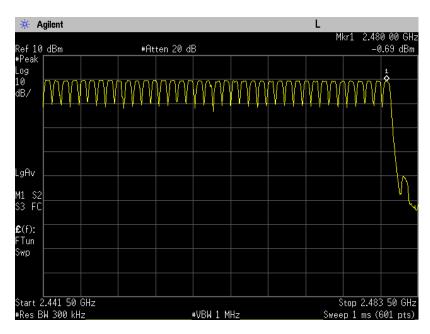
5.4.2. Test result

Pass

Mode	Number of Hopping Frequency (time)	Limit (time)	Result
Tx	78	≥ 15	PASS

The test plots as following:





5.5. Dwell time

5.5.1. Test procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator

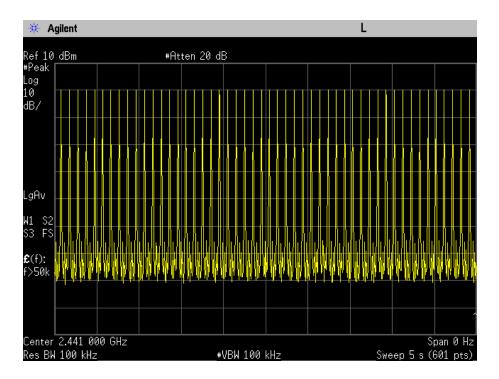
5.5.2. Test result

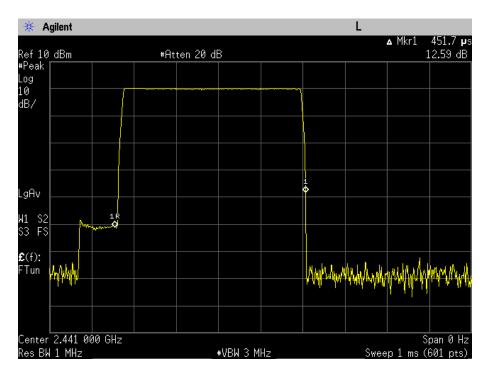
Pass

Packet type	Dwell time (msec)	Limit (msec)	Result
DH1	142.74	400	PASS
DH3	270.18	400	PASS
DH5	319.63	400	PASS

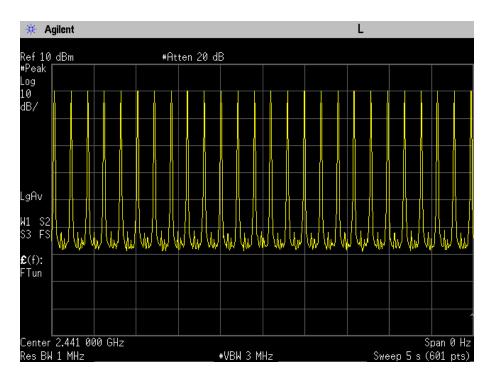
The test plots as following:

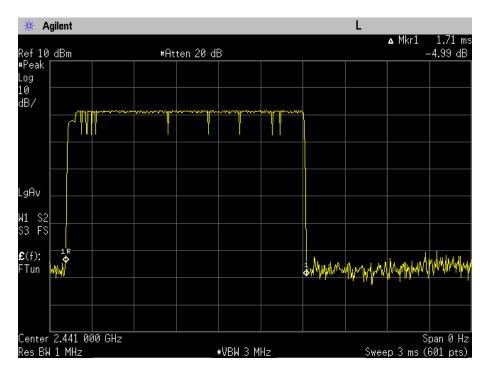
DH1: Dwell time = 50times/5s*31.6*0.4517ms =142.74ms



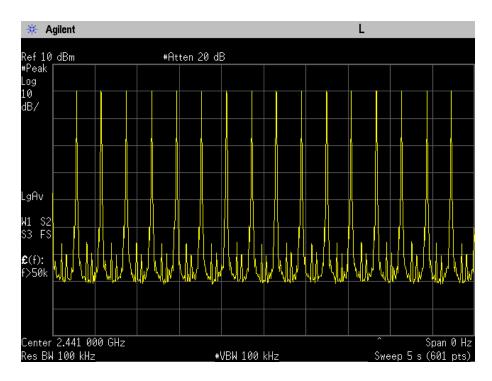


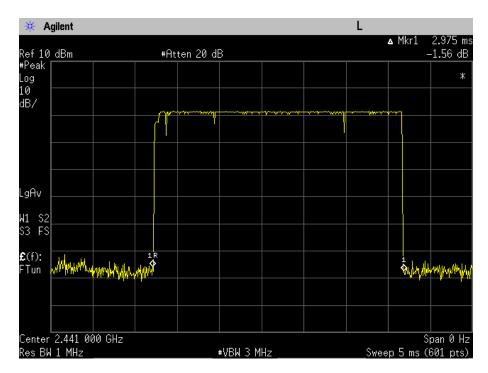
DH3: Dwell time = 25times/5s*31.6*1.71ms = 270.18ms





DH5: Dwell time = 17times/5s*31.6*2.975ms = 319.63ms





5.6. Band Edge

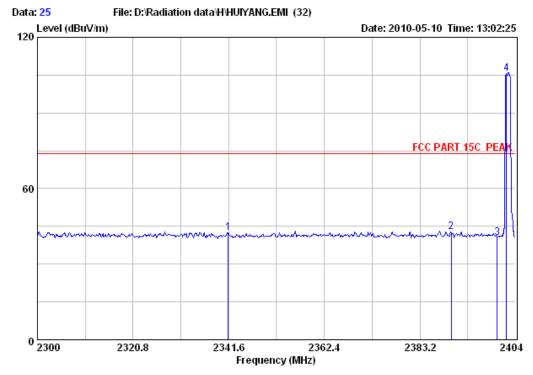
5.6.1. Test limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

5.6.2. Test procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator The test plots as following:

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Test Site : 10m Chamber

Limit : FCC PART 15C PEAK Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

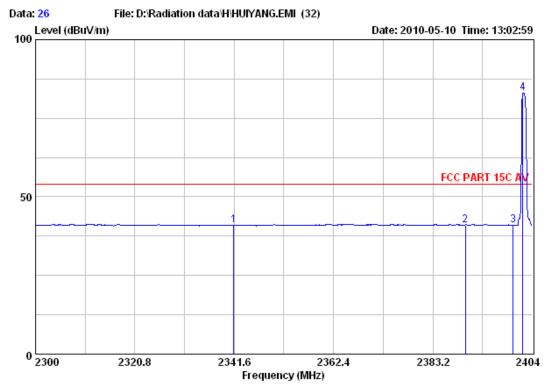
: Bluetooth Music Receiver

M/N : BT-MP : AC 120V/60Hz Power

Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2341.50	42.58	74.00	31.42	8.91	31.45	2.22	Peak
2	2390.00	42.62	74.00	31.38	8.92	31.48	2.22	Peak
3	2400.00	40.38	74.00	33.62	6.65	31.50	2.23	Peak
4	2402.02	105.70	74.00	-31.70	71.97	31.50	2.23	Peak

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Test Site : 10m Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

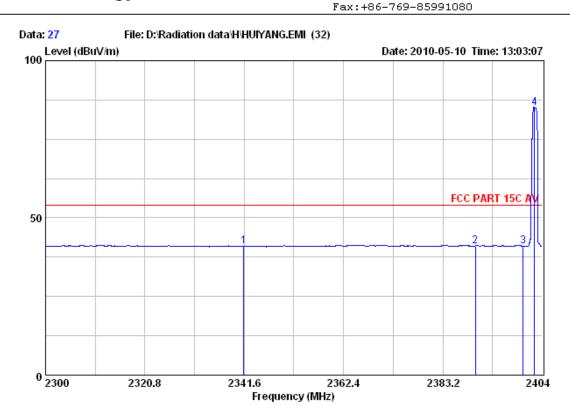
EUT : Bluetooth Music Receiver

: BT-MP M/N : AC 120V/60Hz Power

Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2341.50	40.93	54.00	13.07	7.26	31.45	2.22	Average
2	2390.00	41.04	54.00	12.96	7.34	31.48	2.22	Average
3	2400.00	40.93	54.00	13.07	7.20	31.50	2.23	Average
4	2402.02	83.10	54.00	-29.10	49.37	31.50	2.23	Average

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Test Site : 10m Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

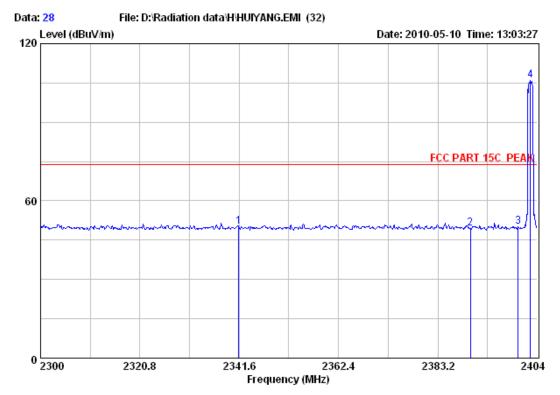
EUT : Bluetooth Music Receiver

: BT-MP M/N : AC 120V/60Hz Power

Test Engineer : Jade

	Cable	Ant.				Emission		
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.	
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)	
Average	2.22	31.45	7.27	13.06	54.00	40.94	2341.51	1
Average	2.22	31.48	7.34	12.96	54.00	41.04	2390.00	2
Average	2.23	31.50	7.20	13.07	54.00	40.93	2400.00	3
Average	2.23	31.50	51.35	-31.08	54.00	85.08	2402.44	4

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Test Site : 10m Chamber

: FCC PART 15C PEAK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

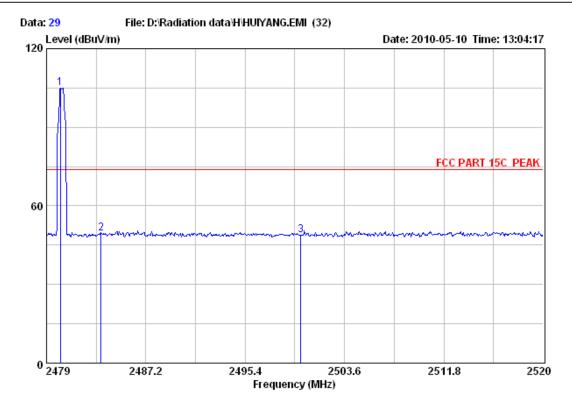
: AC 120V/60Hz Power

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:5
Test Mode : Low channel 2402MHz : Temp.:25.2'C Humi.:56% Press:101.51kPa

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2341.50	50.27	74.00	23.73	16.60	31.45	2.22	Peak
2	2390.00	49.39	74.00	24.61	15.69	31.48	2.22	Peak
3	2400.00	50.06	74.00	23.94	16.33	31.50	2.23	Peak
4	2402.54	105.96	74.00	-31.96	72.23	31.50	2.23	Peak

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Test Site : 10m Chamber

Limit : FCC PART 15C PEAK

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

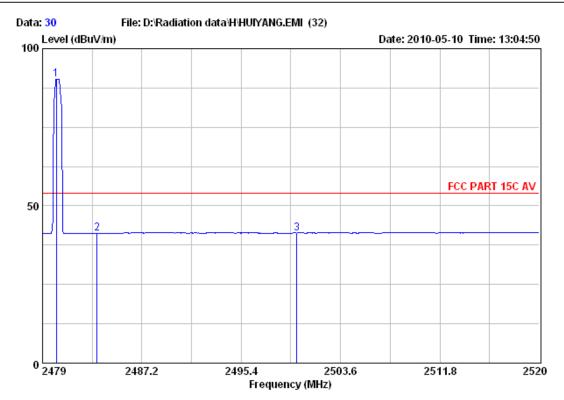
M/N : BT-MP

: AC 120V/60Hz Power

Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	_	_			Remark
1	2480.15	105.08	74.00	-31.08	71.27	31.58	2.23	Peak
2	2483.50	49.53	74.00	24.47	15.72	31.58	2.23	Peak
3	2500.00	48.92	74.00	25.08	15.09	31.60	2.23	Peak

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: 10m Chamber : FCC PART 15C AV Test Site Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

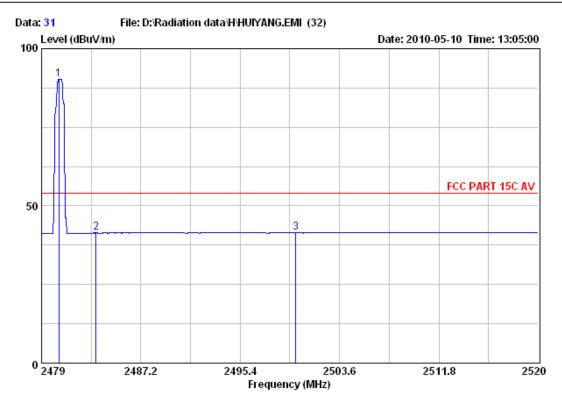
EUT : Bluetooth Music Receiver

: BT-MP M/N : AC 120V/60Hz Power

Test Engineer : Jade

	Freq.	Emission Level (dBuV/m)	Limits (dBuV/m)	_	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
_	2480.15 2483.50	90.32 41.30	54.00 54.00	-36.32 12.70	56.51 7.49	31.58 31.58		Average Average
_	2500.00	41.35	54.00	12.65	7.52	31.60	2.23	Average

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Test Site : 10m Chamber
Limit : FCC PART 15C AV

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

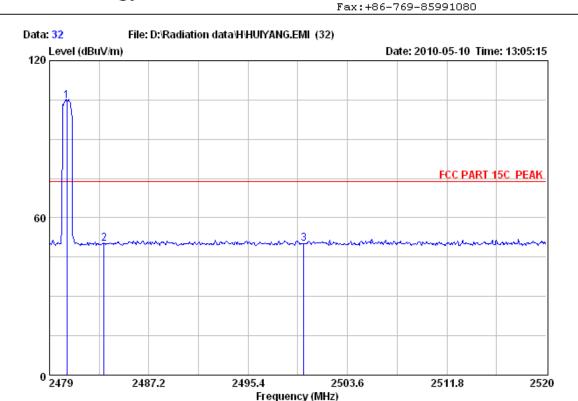
EUT : Bluetooth Music Receiver

: BT-MP M/N : AC 120V/60Hz Power

Test Engineer : Jade

	E	Emission	7 3 3	W	D	Ant.	Cable	D
	Freq. (MHz)	Level (dBuV/m)	(dBuV/m)	_	Reading (dBuV)	(dB/m)	(dB)	Remark
1	2480.44	90.34	54.00	-36.34	56.53	31.58	2.23	Average
2	2483.50	41.40	54.00	12.60	7.59	31.58	2.23	Average
3	2500.00	41.39	54.00	12.61	7.56	31.60	2.23	Average

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Test Site : 10m Chamber

: FCC PART 15C PEAK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

: AC 120V/60Hz Power

Test Engineer : Jade

	Freq.	Emission Level (dBuV/m)	Limits (dBuV/m)	_	_	Factor	Cable Loss (dB)	Remark
_	2480.44 2483.50	104.68 50.29	74.00 74.00	-30.68 23.71		31.58 31.58		Peak Peak
3	2500.00	50.00	74.00	24.00	16.17	31.60	2.23	Peak

5.7. Maximum Peak Output Power

5.7.1.Test limits

Not greater than 125mW

5.7.2. Test procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Power meter through an RF attenuator

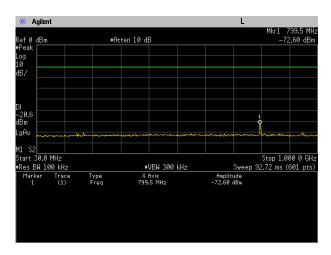
	Mode: Tx (Hopping off)												
СН	Frequency (MHz)	Reading (dBm)	Cable loss (dB)	Result (dBm)	Limit (dBm)	Margin (dB)							
Low	2402.0	0.09	0.63	0.72	20.97	21.69							
Mid	2441.0	0.06	0.57	0.63	20.97	21.60							
High	2480.0	-0.20	0.68	0.48	20.97	21.45							

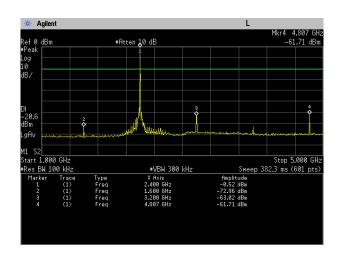
Note: Result = Reading + Cable loss

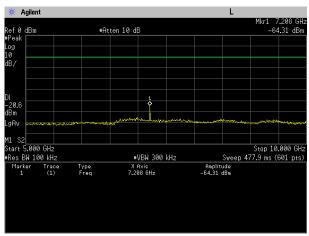
5.8. Transmitter Spurious Emissions

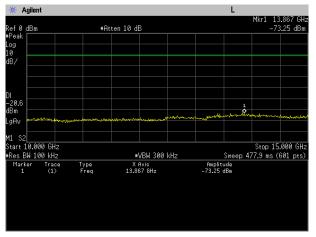
5.8.1 Conducted Spurious Emissions

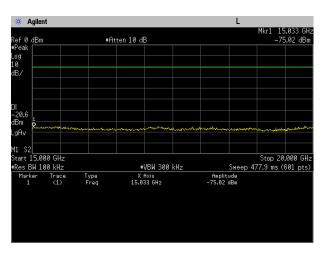
CH: Low

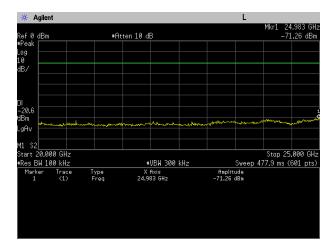




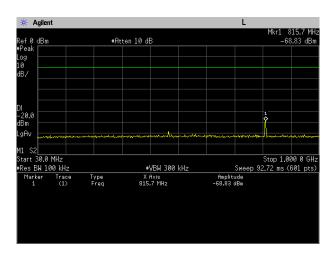


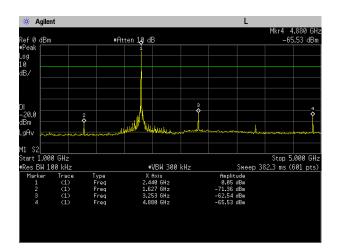


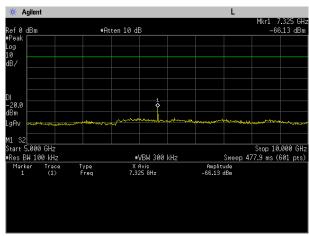


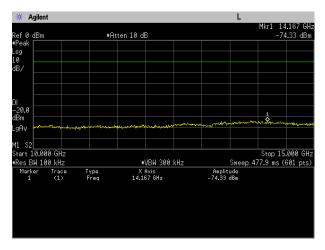


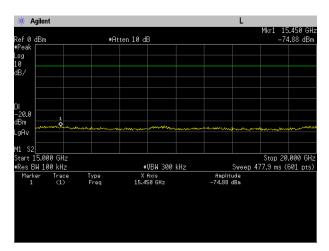
CH: Mid

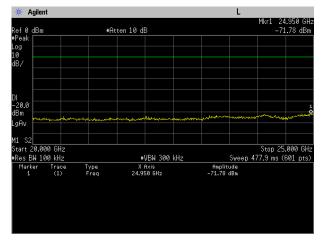




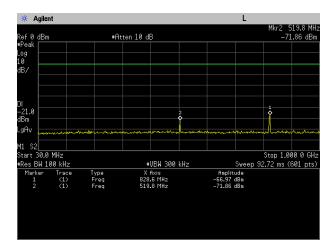


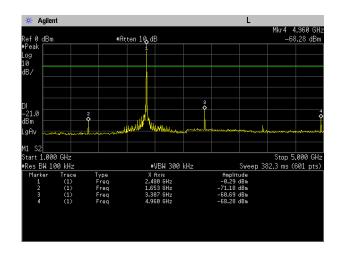


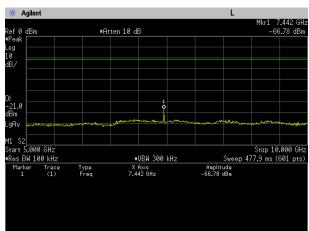


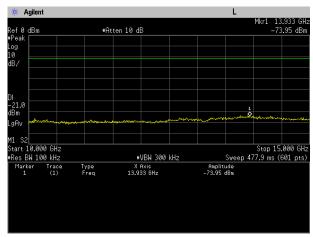


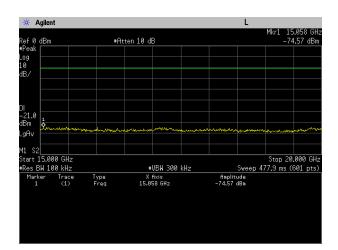
CH: High

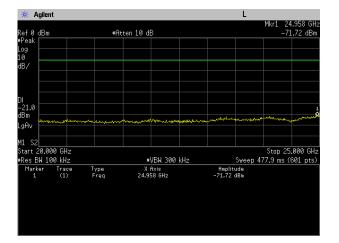






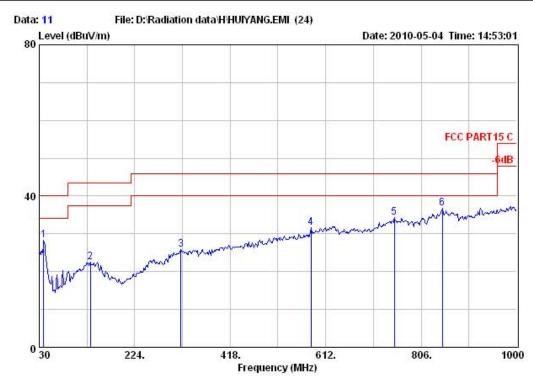






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Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

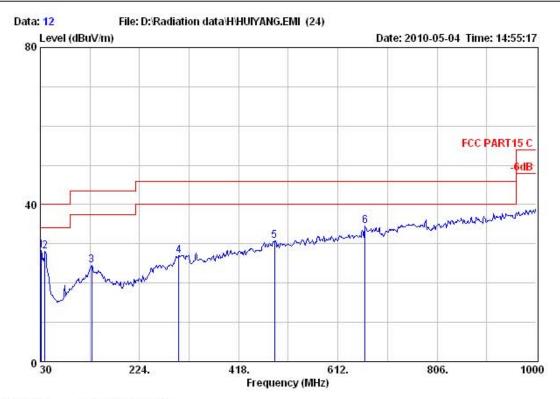
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:55% Press:101.52kPa

Comment : Temp.:23
Test Mode : TX Mode

		Emission				Ant.	Cable	
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
3	1 38.73	28.32	40.00	11.68	13.15	14.56	0.61	QP
- 8	2 133.79	22.47	43.50	21.03	9.16	12.08	1.23	QP
	3 318.09	25.96	46.00	20.04	10.05	13.96	1.95	QP
	4 581.93	31.70	46.00	14.30	9.78	19.24	2.68	QP
	5 751.68	34.25	46.00	11.75	8.00	23.22	3.03	QP
	6 848 68	36.71	46.00	9.29	9.67	23.77	3.27	OP

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Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

M/N : BT-MP Power : AC 120V/60Hz

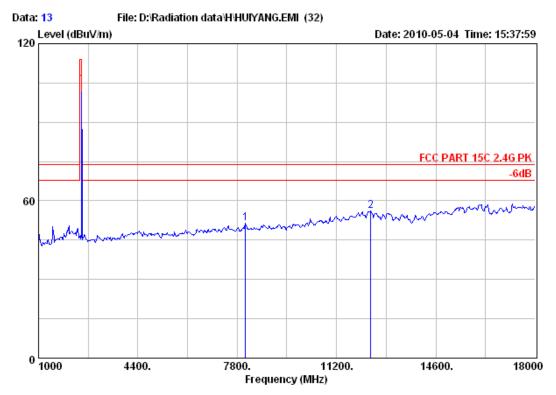
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:55% Press:101.52kPa

Test Mode : TX Mode

	Freq.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
1	31.94	28.39	40.00	11.61	8.00	19.80	0.59	QP
2	38.73	28.10	40.00	11.90	12.93	14.56	0.61	QP
3	130.88	24.42	43.50	19.08	11.19	12.02	1.21	QP
4	300.63	27.06	46.00	18.94	11.65	13.53	1.88	QP
5	487.84	30.72	46.00	15.28	10.04	18.26	2.42	QP
6	665.35	34.52	46.00	11.48	10.55	21.11	2.86	QP

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Test Site : 966 Chamber

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

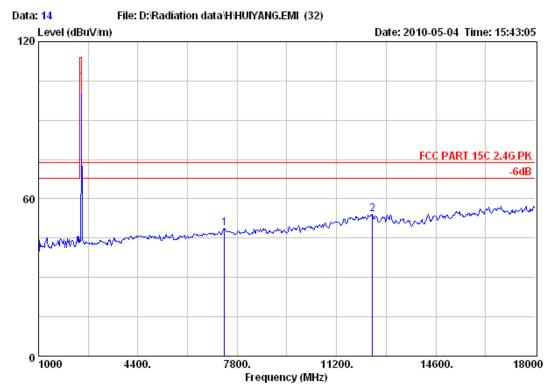
: AC 120V/60Hz Power

Test Engineer : Jade

: Temp.:25.2'C Humi.:56% Press:101.51kPa

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 8089.00	51.50	74.00	22.50	11.94	36.98	2.58	Peak
212373.00	56.01	74.00	17.99	13.22	39.95	2.84	Peak

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: 966 Chamber Test Site

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

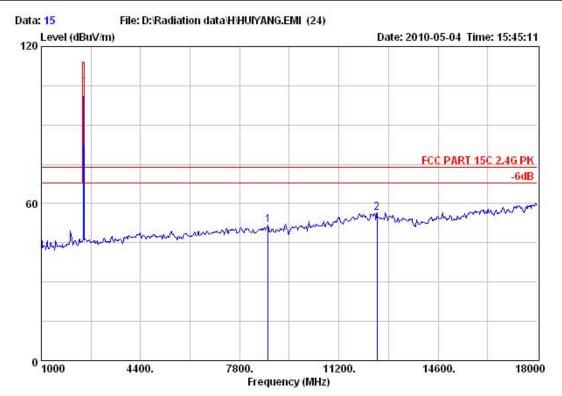
: AC 120V/60Hz Power

Test Engineer : Jade

: Temp.:25.2'C Humi.:56% Press:101.51kPa

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 7358.00	48.77	74.00	25.23	9.41	36.83	2.53	Peak
212424.00	54.05	74.00	19.95	11.23	39.97	2.85	Peak

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Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

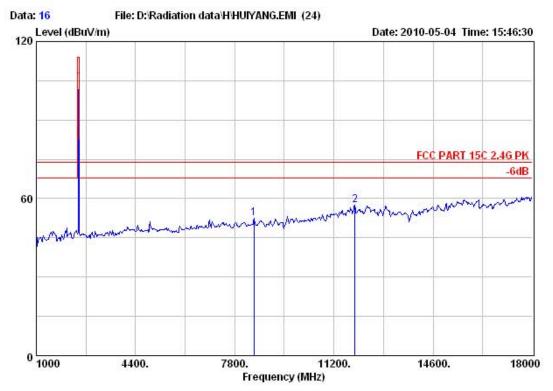
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Middle channel 2441MHz

Emission					Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)		Reading (dBuV)			Remark
1 8769.00	51.76	74.00	22.24	12.13	37.01	2.62	Peak
212509.00	56.59	74.00	17.41	13.73	40.01	2.85	Peak

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Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

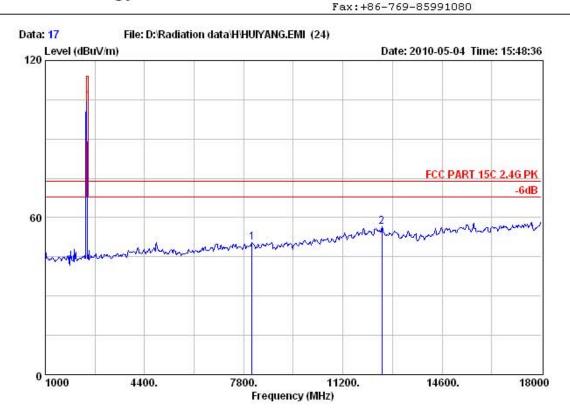
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Middle channel 2441MHz

Emission					Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)		Reading (dBuV)	Factor (dB/m)		Remark
1 8463.00	52.54	74.00	21.46	13.03	36.91	2.60	Peak
211914.00	57.56	74.00	16.44	15.07	39.67	2.82	Peak

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Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

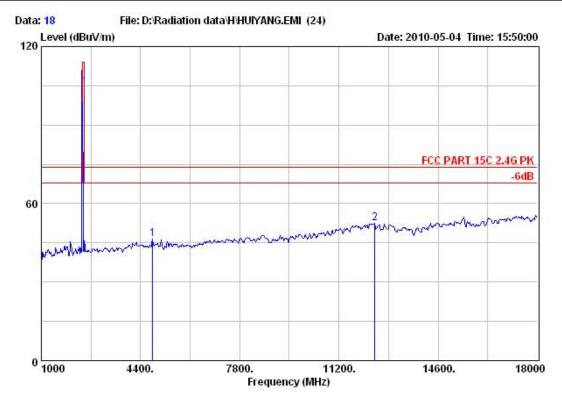
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Low channel 2402MHz

Emission					Ant.	Cable	
Freq.	Level (dBuV/m)	Limits (dBuV/m)		Reading (dBuV)	Factor (dB/m)		Remark
1 8089.00	50.56	74.00	23.44	11.00	36.98	2.58	Peak
212543.00	56.47	74.00	17.53	13.59	40.03	2.85	Peak

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Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

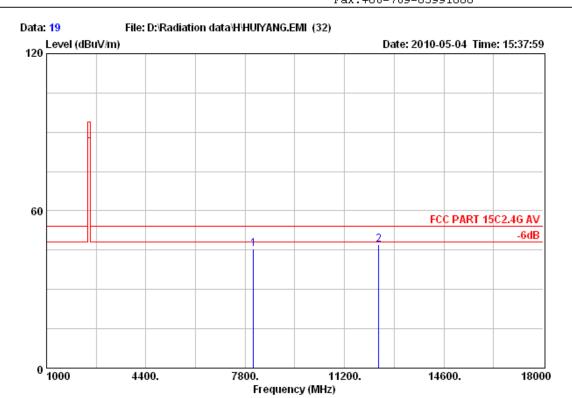
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Low channel 2402MHz

Emission					Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)		Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 4808.00	46.43	74.00	27.57	9.47	34.58	2.38	Peak
212424.00	52.43	74.00	21.57	9.61	39.97	2.85	Peak

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: 966 Chamber Test Site

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

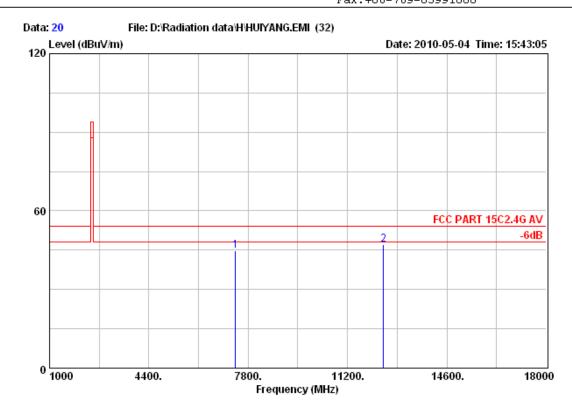
: BT-MP M/N

: AC 120V/60Hz Power

Test Engineer : Jade

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 8089.00	45.50	54.00	8.50	5.94	36.98	2.58	Average
212373.00	47.01	54.00	6.99	4.22	39.95	2.84	Average

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: 966 Chamber Test Site

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

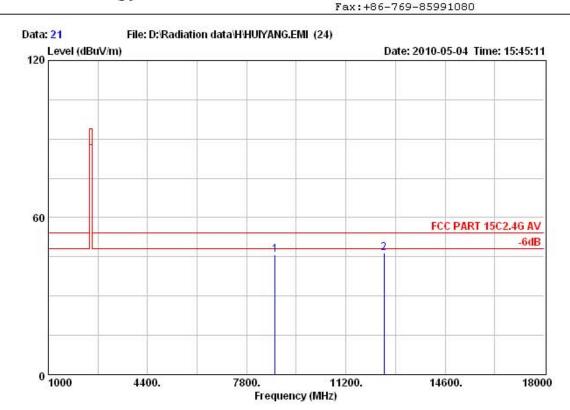
: BT-MP M/N

: AC 120V/60Hz Power

Test Engineer : Jade

ole	Cable	Ant.				Emission	
ss Remai	Loss	Factor	Reading	Margin	Limits	Level	Freq.
dB)	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
.53 Aver	2.53	36.83	5.41	9.23	54.00	44.77	1 7358.00
.85 Aver	2.85	39.97	4.23	6.95	54.00	47.05	212424.00

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Test Site : 966 Chamber

Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

Test Engineer : Jade

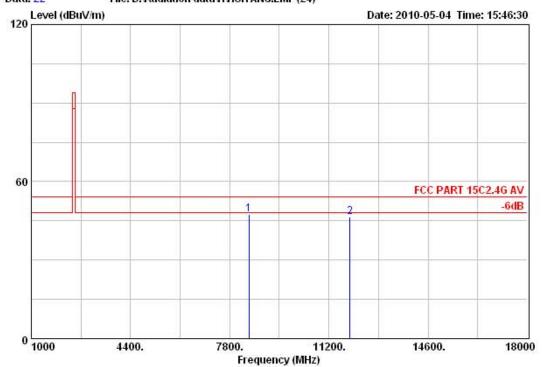
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Middle channel 2441MHz

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)		Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 8769.00	45.76	54.00	8.24	6.13	37.01	2.62	Average
212509.00	46.59	54.00	7.41	3.73	40.01	2.85	Average

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Test Site : 966 Chamber

Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

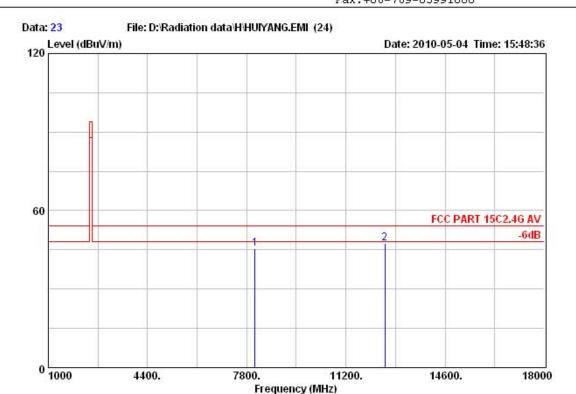
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Middle channel 2441MHz

			Ant.	Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 8463.00	47.54	54.00	6.46	8.03	36.91	2.60	Average
211914.00	46.56	54.00	7.44	4.07	39.67	2.82	Average

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Test Site : 966 Chamber

Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

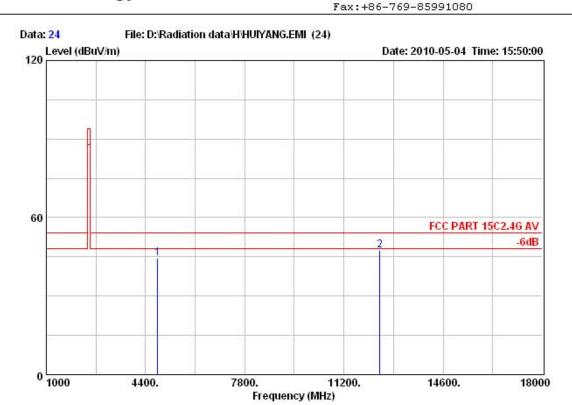
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Low channel 2402MHz

		Emission				Ant. Cable		
85	Freq.	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
	1 8089.00	45.56	54.00	8.44	6.00	36.98	2.58	Average
	212543.00	47.47	54.00	6.53	4.59	40.03	2.85	Average

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Test Site : 966 Chamber

Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Bluetooth Music Receiver

M/N : BT-MP

Power : AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa

Test Mode : Low channel 2402MHz

Emission					Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 4808.00	44.43	54.00	9.57	7.47	34.58	2.38	Average
212424.00	47.43	54.00	6.57	4.61	39.97	2.85	Average