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# FCC Test Report

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Report No.: AGC00924160303FE03

**FCC ID** : QIFE06  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Bluetooth Headphone  
**BRAND NAME** : My Music  
**MODEL NAME** : E06,2679,2683,2685,2685WM,2686WM,2683WM,  
2686STC  
**CLIENT** : My Music Group Limited  
**DATE OF ISSUE** : Apr.18,2016  
**STANDARD(S)** : FCC Part 15 Rules  
**TEST PROCEDURE(S)**  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr.18,2016	Valid	Original Report

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## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	My Music Group Limited
<b>Address</b>	Room No.2026,Global Logistics Service Center,China South City, Pinghu Town, Longgang, SZ,China.
<b>Manufacturer</b>	Dongguan Fulun Electronic Co.,Limited
<b>Address</b>	4F, Building A,Huangjinye Industrial Park,No.216 Shaxin Road,KeyuanCity, Tangxia,Dongguan.CN
<b>Product Designation</b>	Bluetooth Headphone
<b>Brand Name</b>	My Music
<b>Test Model</b>	E06
<b>Series Model</b>	2679, 2683, 2685, 2685WM, 2686WM, 2683WM, 2686STC
<b>Different Description</b>	Model name is different
<b>Date of test</b>	Apr.14,2016 to Apr.15,2016
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249.

*Time Huang*

Tested By \_\_\_\_\_  
Time Huang(Huang Nanhui) Apr.18,2016

*Forrest Lei*

Reviewed By \_\_\_\_\_  
Forrest Lei(Lei Yonggang) Apr.18,2016

*Solger Zhang*

Approved By \_\_\_\_\_  
Solger Zhang(Zhang Hongyi)  
Authorized Officer Apr.18,2016

## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	-1.62dBm(Max)
<b>Bluetooth Version</b>	V4.0
<b>Modulation</b>	GFSK
<b>Number of channels</b>	79 for BR, 40 for BLE
<b>Hardware Version</b>	v1.0
<b>Software Version</b>	v1.0
<b>Antenna Designation</b>	PCB Antenna (Met 15.203 Antenna requirement)
<b>Antenna Gain</b>	0dBi
<b>Power Supply</b>	DC 3.7V

Note: The USB port only used for charging and can't be used to transfer data with PC.

### 2.2. TABLE OF CARRIER FREQUENCIES

BR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

BLE Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.18$ dB
2	All emissions,radiated	$\pm 3.91$ dB
3	Temperature	$\pm 0.5$ °C
4	Humidity	$\pm 2$ %

### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	BT link

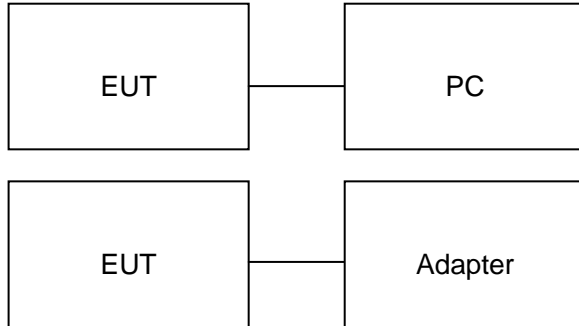
Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3.The EUT used fully-charged battery when tested.

## 5. SYSTEM TEST CONFIGURATION

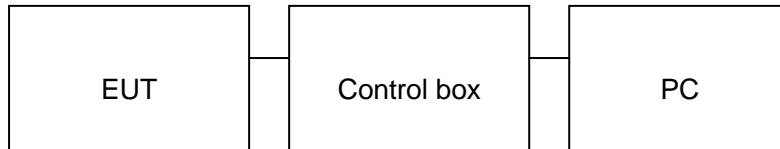
### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



**Note:** Owing to the EUT has own battery, Testing will be performed while PC or adapter remove.

Configure 2: (Control continuous TX)



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Headphone	N/A	QIFE06	EUT
2	PC	SONY	E1412AYCW	A.E
3	Control box	N/A	N/A	A.E
4	Temporary Antenna Connector	T10	N/A	A.E
5	AC adapter	ETPCA-050	N/A	A.E

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.251	BANDWIDTH	Compliant



## 6. TEST FACILITY

<b>Site</b>	Dongguan Precise Testing Service Co., Ltd.
<b>Location</b>	Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
<b>FCC Registration No.</b>	371540
<b>Description</b>	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014

## TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013

## 7 ALL TEST EQUIPMENT LIST

Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2016	02/29/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2016	03/08/2017
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2016	03/17/2017
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2016	03/17/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2015	07/09/2016
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2016	02/29/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2016	02/29/2017
Loop Antenna	COM-POWER	AL-130	121044	09/27/2015	09/26/2016
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2016	02/27/2016
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Radiation Cable 1	VEM	SE1	S004	07/10/2015	07/09/2016
Radiation Cable 2	VEM	SE1	S005	07/10/2015	07/09/2016
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

<b>Conducted Emission Test Site</b>					
<b>Name of Equipment</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Last Calibration</b>	<b>Due Calibration</b>
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2016	03/08/2017
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	03/09/2016	03/08/2017
LISN	EMCO	3825/2	8901-1459	03/09/2016	03/08/2017
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	03/04/2016	03/03/2017
Conduction Cable	VEM	ME1	M001	07/10/2016	07/09/2017
Test SW	FARAD	EZ-EMC/ CCS-3A1-CE			

## 8. RADIATED EMISSION

### 8.1 TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$   
(2) The smaller limit shall apply at the cross point between two frequency bands.  
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 8.2. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Bleow 1GHz)
- 6.All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(above 1GHz)

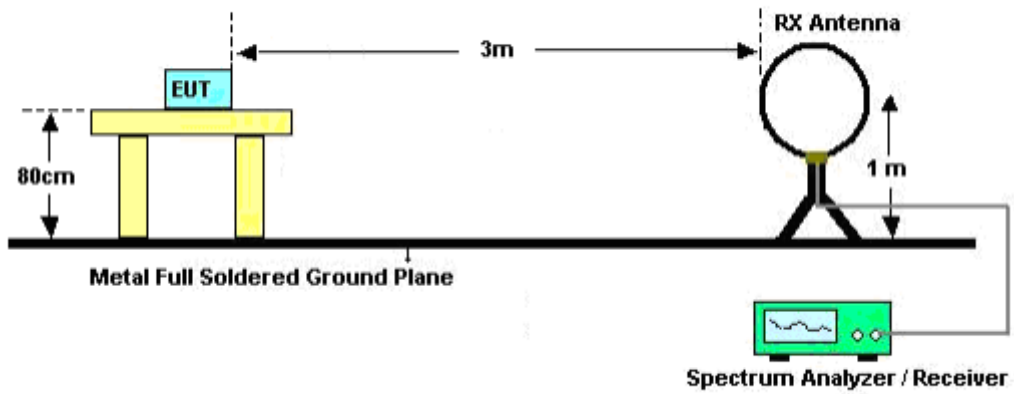
The following table is the setting of spectrum analyzer and receiver.

<b>Spectrum Parameter</b>	<b>Setting</b>
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average

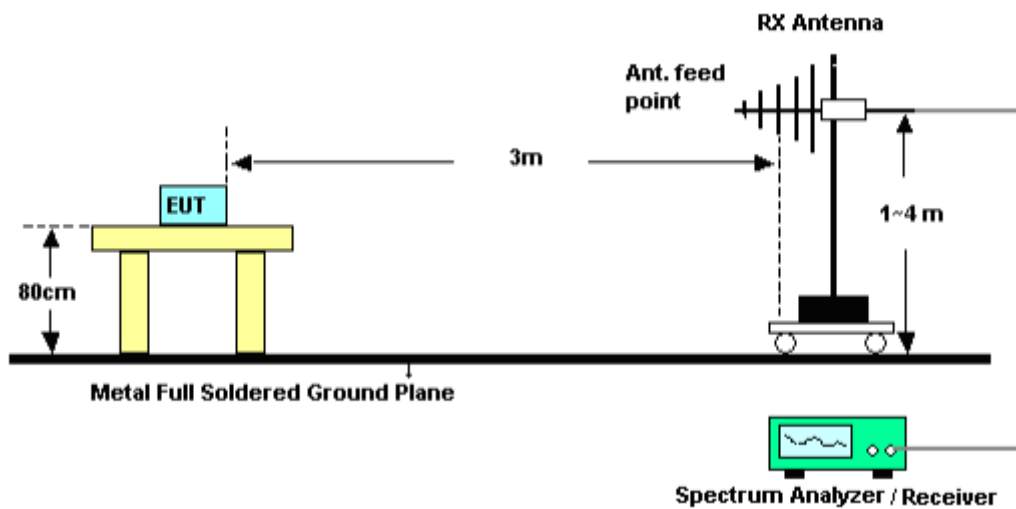
<b>Receiver Parameter</b>	<b>Setting</b>
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

### 8.3. TEST SETUP

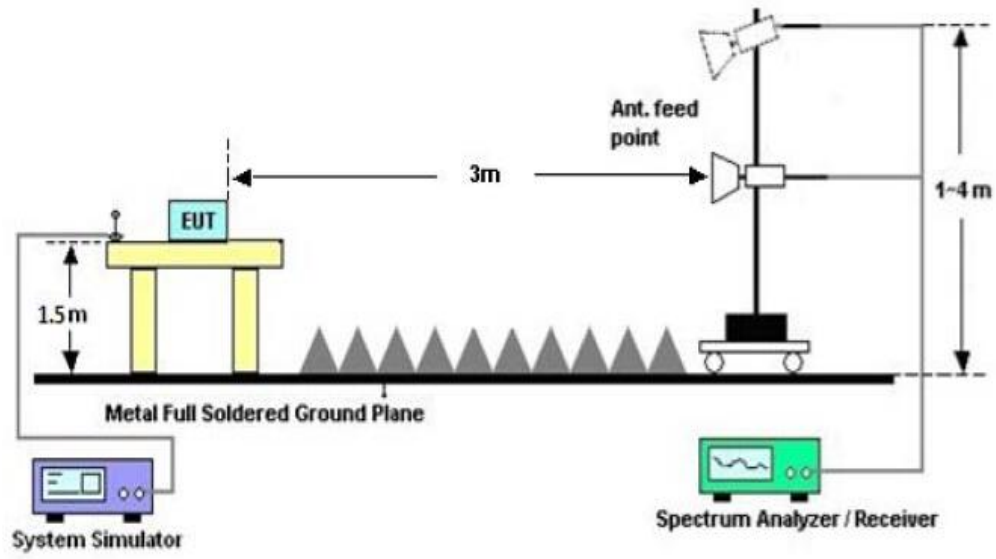
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



8.4. TEST RESULT

FOR BR

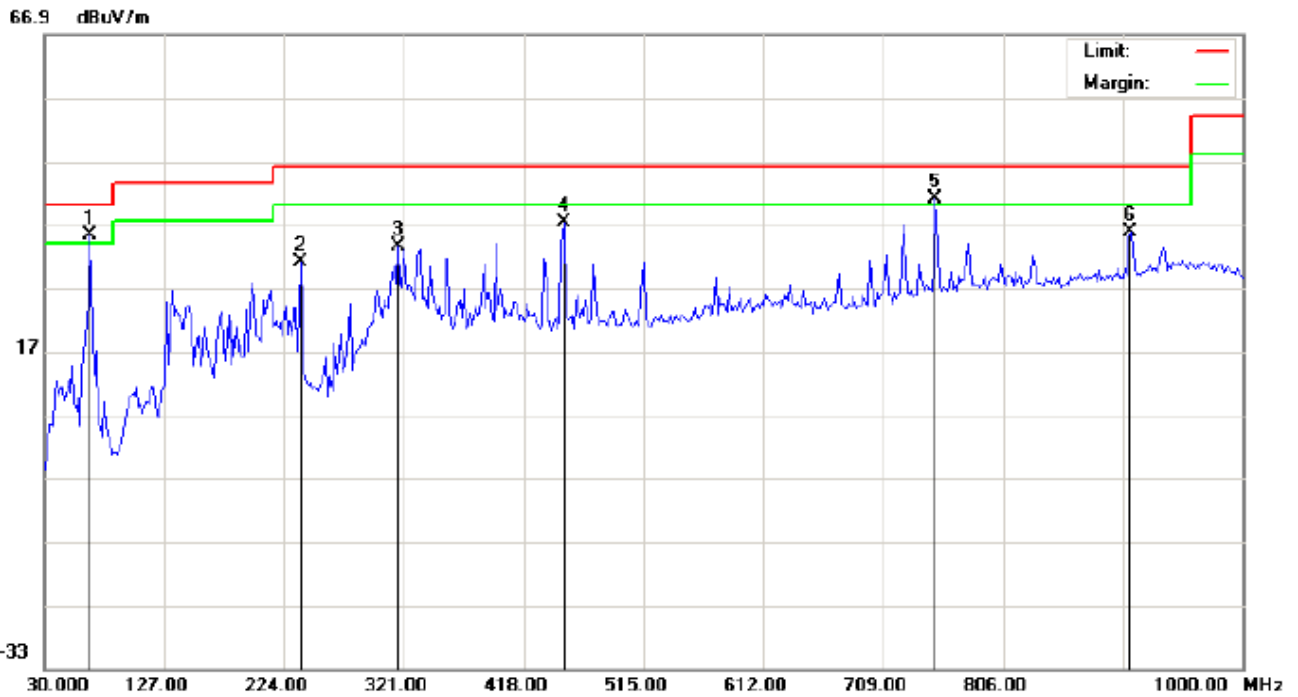
(Worst modulation:GFSK)

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -HORIZONTAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Low Channel TX  
 Note:

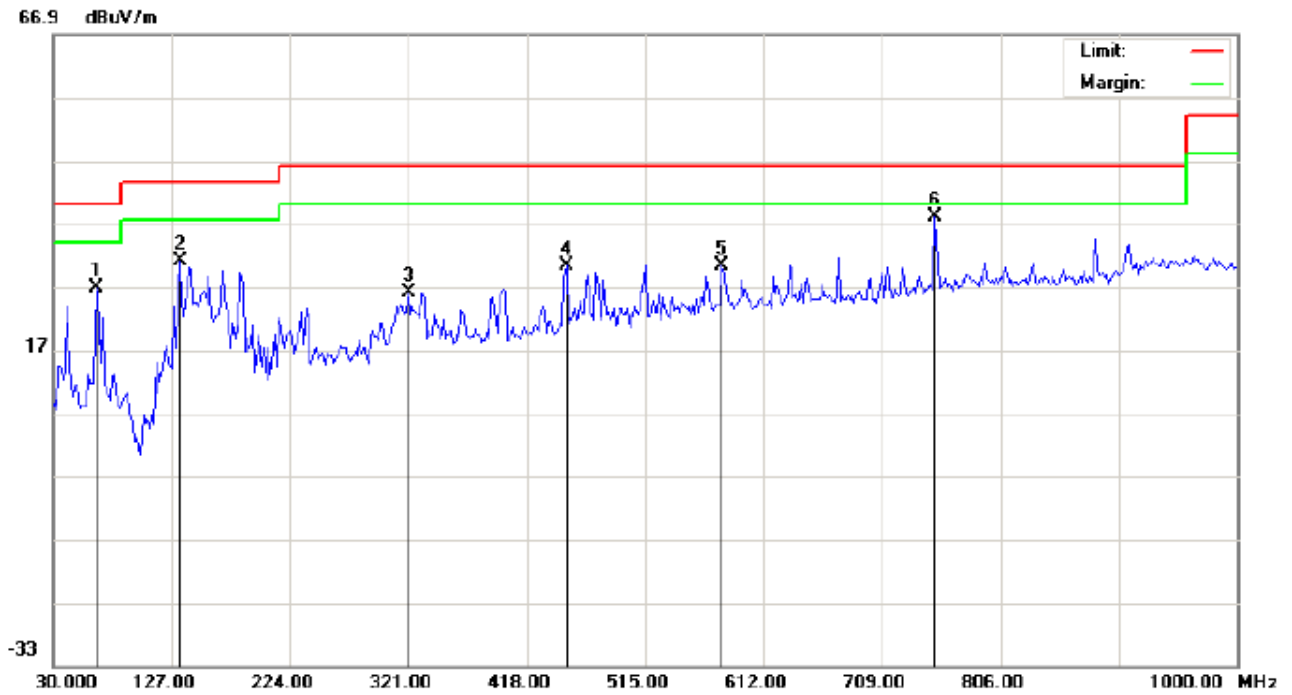
Polarization: *Horizontal*  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	67.1833	27.72	7.51	35.23	40.00	-4.77	peak			
2		236.9333	22.85	8.23	31.08	46.00	-14.92	peak			
3		316.1499	17.11	16.49	33.60	46.00	-12.40	peak			
4		450.3333	16.63	20.59	37.22	46.00	-8.78	peak			
5	!	751.0333	14.39	26.64	41.03	46.00	-4.97	peak			
6		909.4666	6.87	28.87	35.74	46.00	-10.26	peak			



RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Bluetooth Headphone  
M/N: E06  
Mode: Low Channel TX  
Note:

Polarization: *Vertical*  
Power:  
Distance:

Temperature: 23.3  
Humidity: 55.1 %

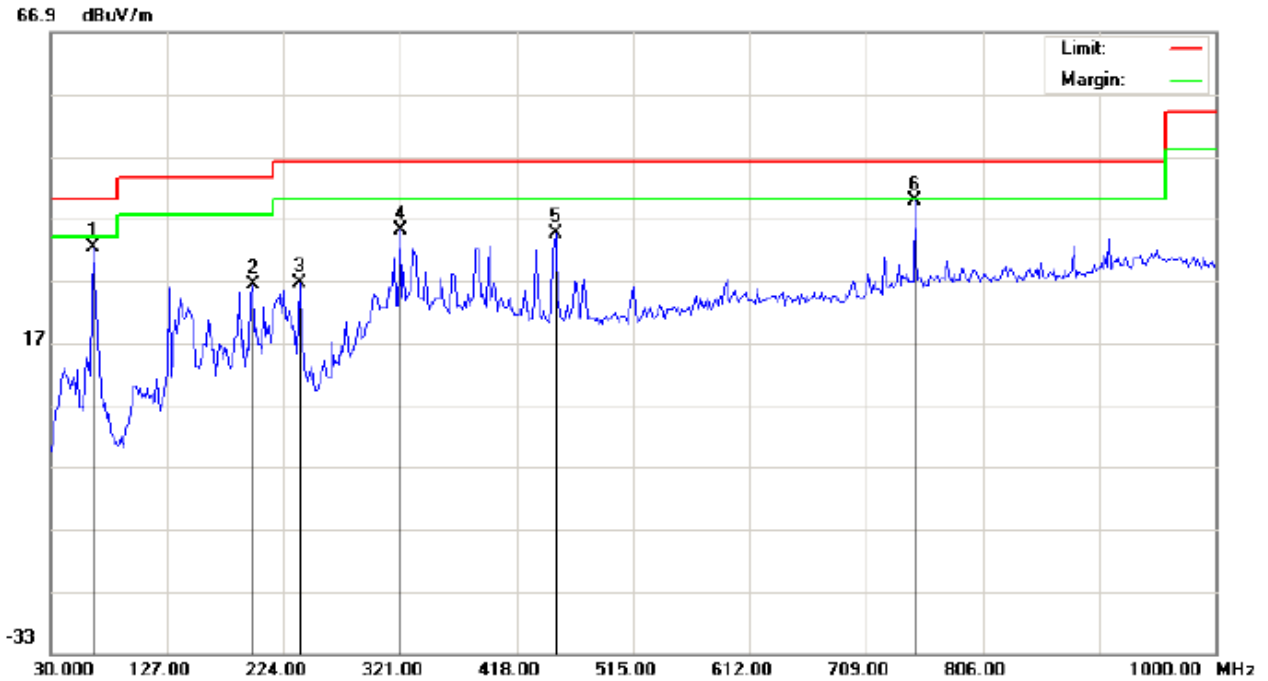
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		65.5667	20.74	5.98	26.72	40.00	-13.28	peak			
2		133.4667	18.52	12.48	31.00	43.50	-12.50	peak			
3		321.0000	9.34	16.81	26.15	46.00	-19.85	peak			
4		450.3333	9.60	20.59	30.19	46.00	-15.81	peak			
5		578.0500	7.78	22.62	30.40	46.00	-15.60	peak			
6	*	752.6500	11.30	26.67	37.97	46.00	-8.03	peak			

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Bluetooth Headphone  
M/N: E06  
Mode: Middle Channel TX  
Note:

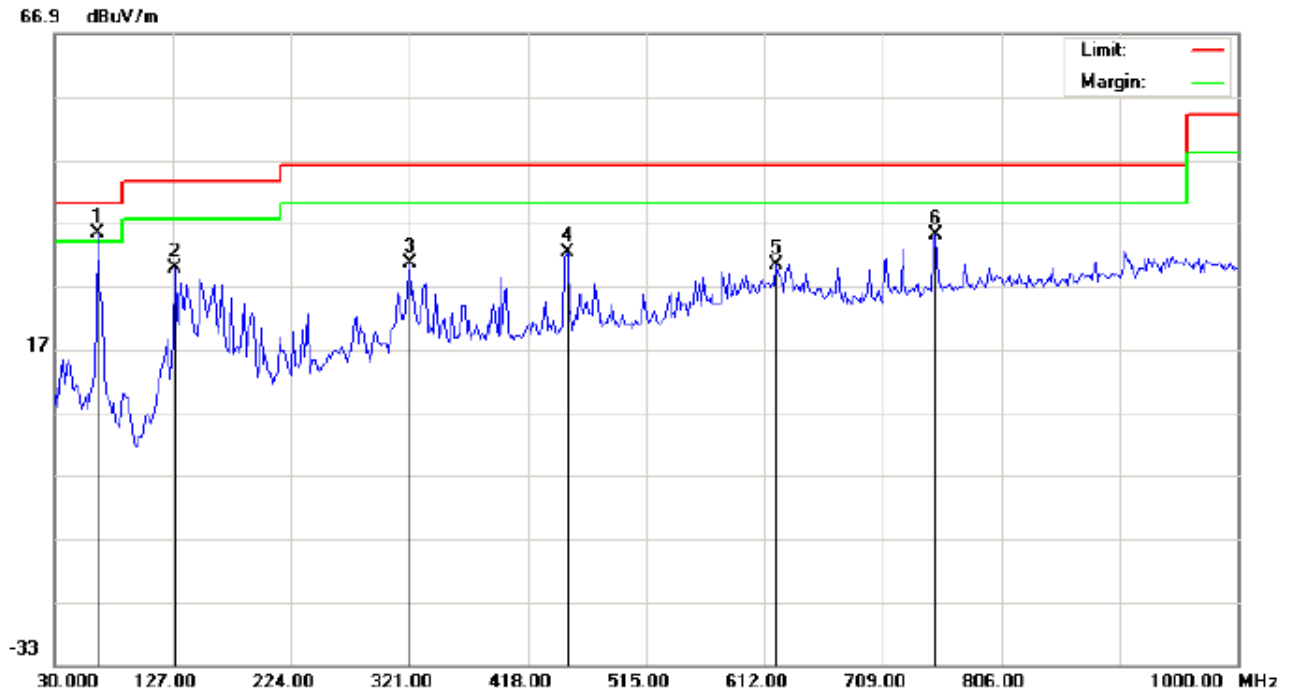
Polarization: *Horizontal*  
Power:  
Distance:

Temperature: 23.3  
Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	.	65.5667	26.43	5.93	32.36	40.00	-7.64	peak			
2	.	198.1333	14.28	11.91	26.19	43.50	-17.31	peak			
3	.	236.9333	18.34	8.23	26.57	46.00	-19.43	peak			
4	.	321.0000	18.34	16.81	35.15	46.00	-10.85	peak			
5	.	450.3333	14.04	20.59	34.63	46.00	-11.37	peak			
6	*	749.4167	13.05	26.61	39.66	46.00	-6.34	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

Polarization: *Vertical*  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

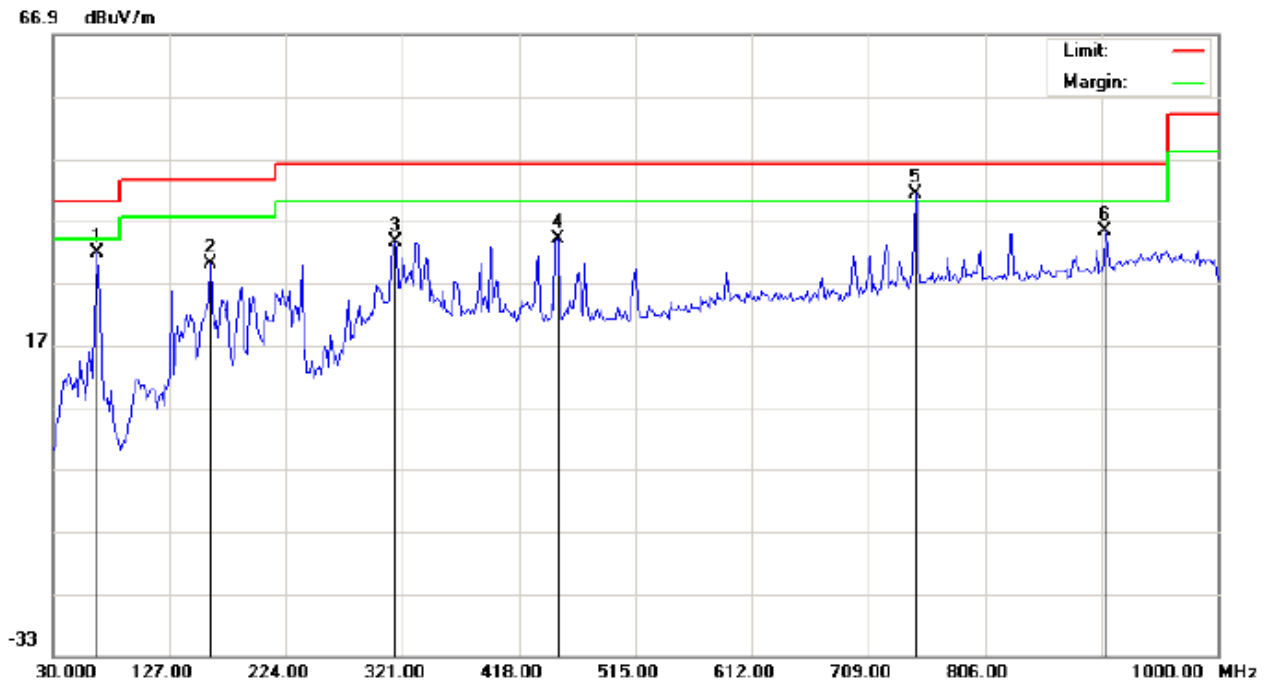
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	65.5667	29.39	5.98	35.37	40.00	-4.63	peak			
2		128.6167	19.37	10.45	29.82	43.50	-13.68	peak			
3		321.0000	13.66	16.81	30.47	46.00	-15.53	peak			
4		450.3333	11.74	20.59	32.33	46.00	-13.67	peak			
5		621.7000	7.00	23.22	30.22	46.00	-15.78	peak			
6		752.6500	8.40	26.67	35.07	46.00	-10.93	peak			

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: High Channel TX  
 Note:

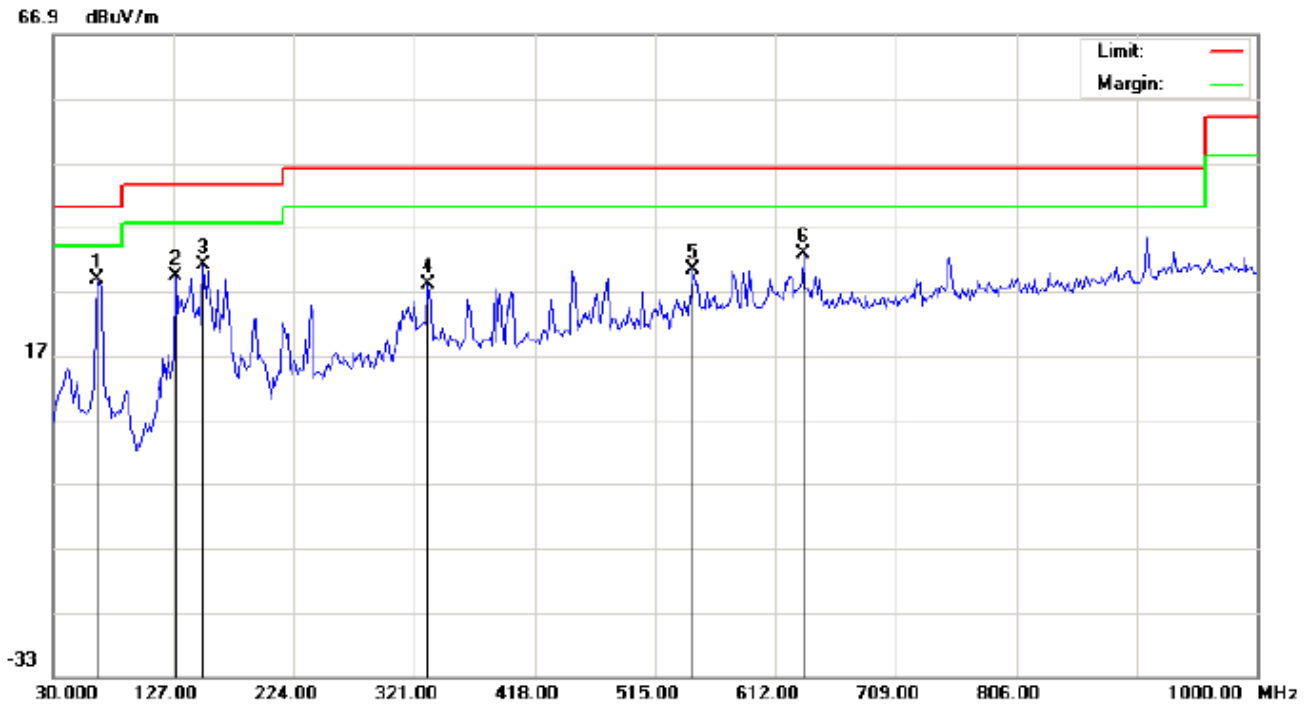
Polarization: *Horizontal*  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		67.1833	24.34	7.51	31.85	40.00	-8.15	peak			
2		160.9500	19.56	10.37	29.93	43.50	-13.57	peak			
3		314.5333	17.18	16.38	33.56	46.00	-12.44	peak			
4		450.3333	13.42	20.59	34.01	46.00	-11.99	peak			
5	*	747.8000	14.62	26.57	41.19	46.00	-4.81	peak			
6		906.2333	6.50	28.78	35.28	46.00	-10.72	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: High Channel TX  
 Note:

Polarization: **Vertical**  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	65.5667	22.70	5.98	28.68	40.00	-11.32	peak			
2		128.6167	18.81	10.45	29.26	43.50	-14.24	peak			
3		151.2500	15.79	15.27	31.06	43.50	-12.44	peak			
4		332.3167	10.56	17.56	28.12	46.00	-17.88	peak			
5		545.7167	7.88	22.36	30.24	46.00	-15.76	peak			
6		634.6332	9.19	23.51	32.70	46.00	-13.30	peak			

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

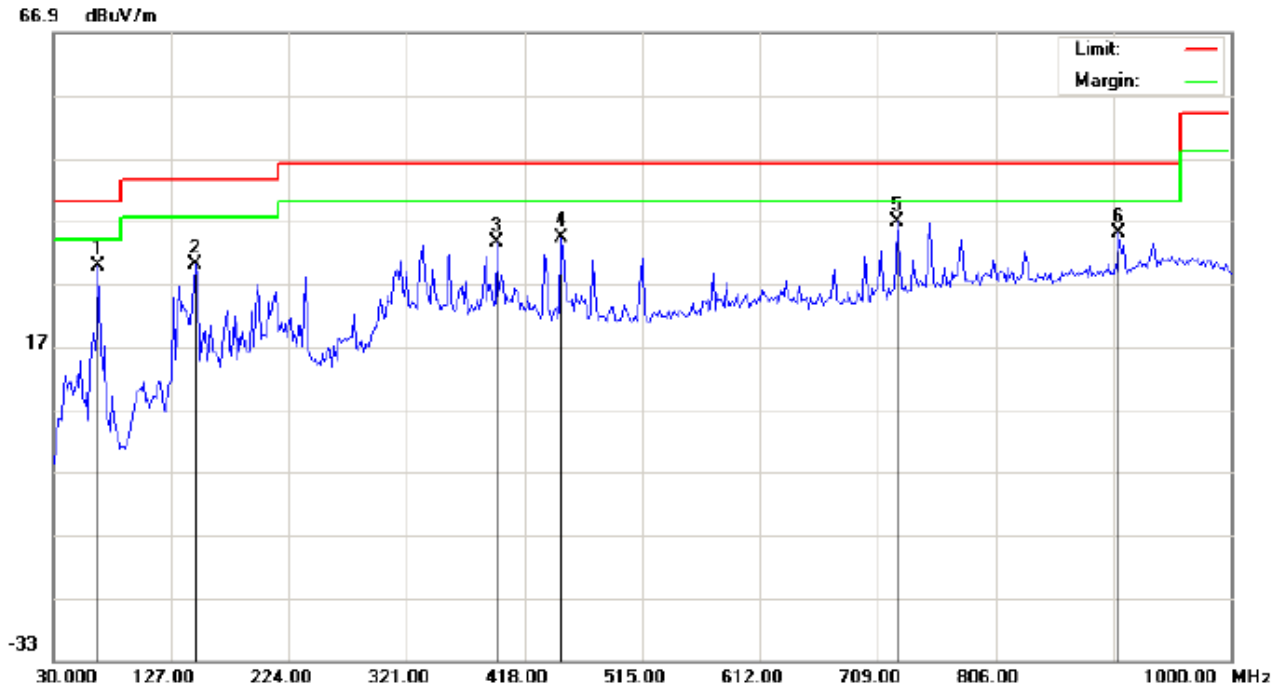
FOR BLE

**RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

**RADIATED EMISSION BELOW 1GHZ**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Bluetooth Headphone  
M/N: E06  
Mode: Low Channel TX  
Note:

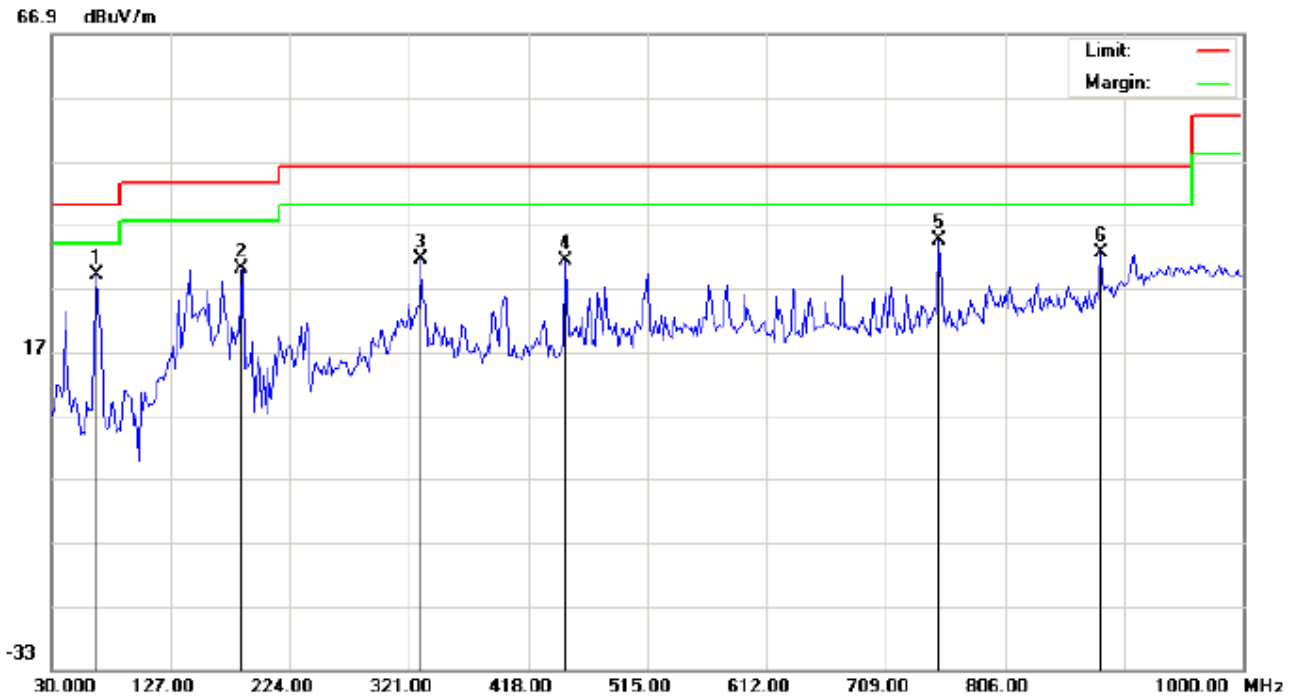
Polarization: *Horizontal*  
Power:  
Distance:

Temperature: 23.3  
Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		67.1833	22.22	7.51	29.73	40.00	-10.27	peak			
2		146.4000	16.49	13.64	30.13	43.50	-13.37	peak			
3		395.3666	14.51	19.04	33.55	46.00	-12.45	peak			
4		448.7167	13.80	20.55	34.35	46.00	-11.65	peak			
5	*	725.1666	10.99	25.91	36.90	46.00	-9.10	peak			
6		907.8500	6.20	28.83	35.03	46.00	-10.97	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Low Channel TX  
 Note:

Polarization: *Vertical*  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

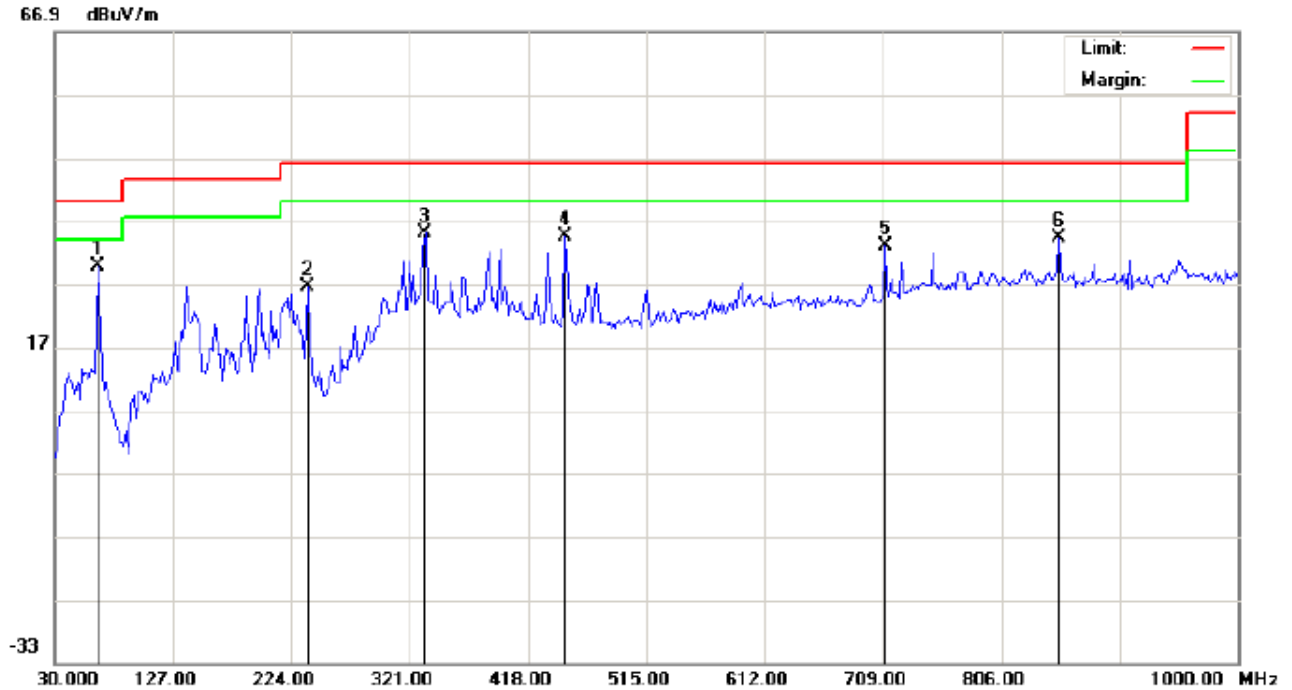
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1	*	67.1833	23.67	5.36	29.03	40.00	-10.97	peak			
2		185.1999	17.25	12.75	30.00	43.50	-13.50	peak			
3		330.6999	14.17	17.45	31.62	46.00	-14.38	peak			
4		448.7167	10.62	20.55	31.17	46.00	-14.83	peak			
5		752.6499	7.80	26.67	34.47	46.00	-11.53	peak			
6		883.6000	4.43	28.18	32.61	46.00	-13.39	peak			

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

Polarization: *Horizontal*  
 Power:  
 Distance:

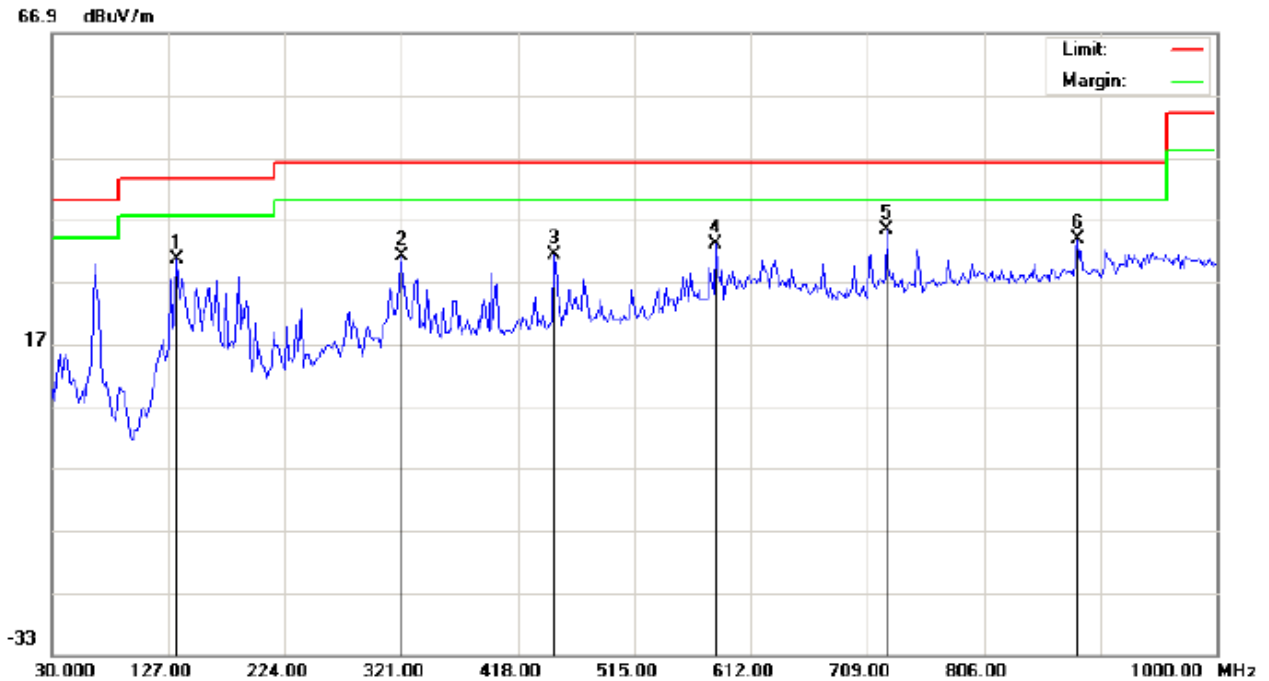
Temperature: 23.3  
 Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	65.5664	23.93	5.93	29.86	40.00	-10.14	peak			
2		236.9333	18.34	8.23	26.57	46.00	-19.43	peak			
3		333.9331	17.44	17.67	35.11	46.00	-10.89	peak			
4		448.7167	14.06	20.55	34.61	46.00	-11.39	peak			
5		710.6167	7.48	25.50	32.98	46.00	-13.02	peak			
6		852.8831	7.00	27.38	34.38	46.00	-11.62	peak			

**RESULT: PASS**



RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

Polarization: *Vertical*  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

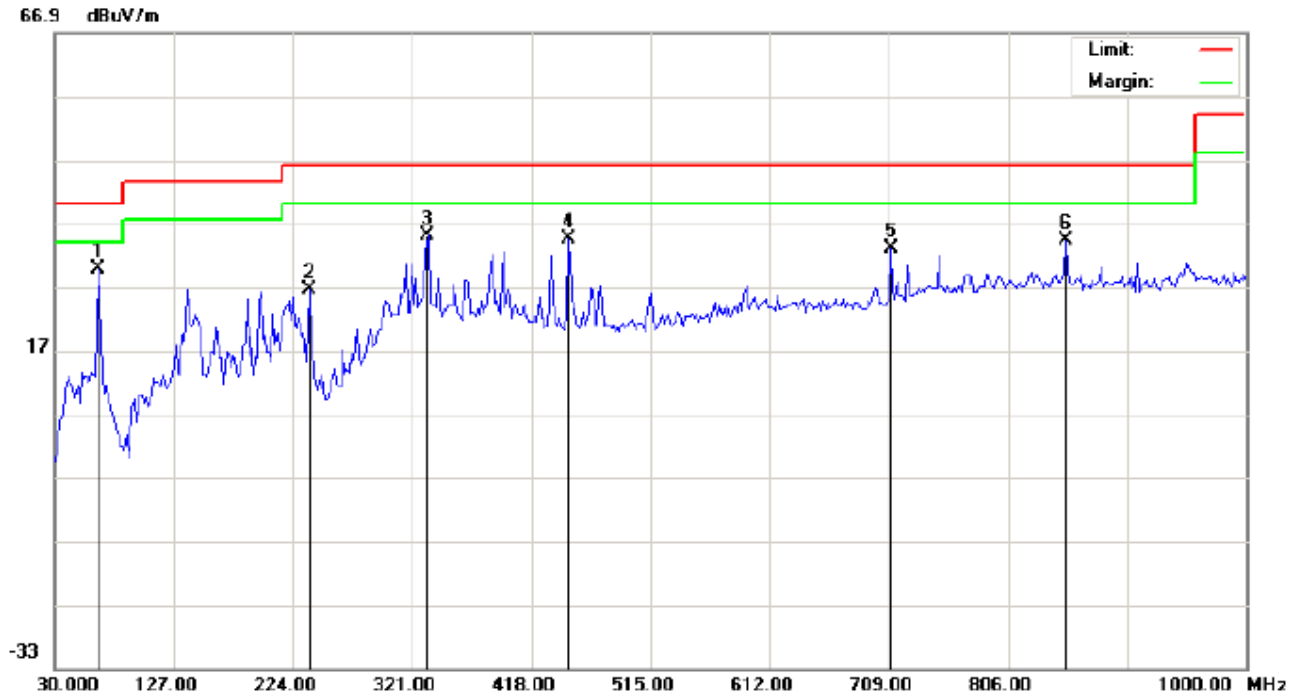
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		133.4667	18.04	12.48	30.52	43.50	-12.98	peak			
2		321.0000	14.16	16.81	30.97	46.00	-15.03	peak			
3		448.7167	10.62	20.55	31.17	46.00	-14.83	peak			
4		582.8999	10.32	22.64	32.96	46.00	-13.04	peak			
5	*	725.1666	9.31	25.91	35.22	46.00	-10.78	peak			
6		883.6000	5.68	28.18	33.86	46.00	-12.14	peak			

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

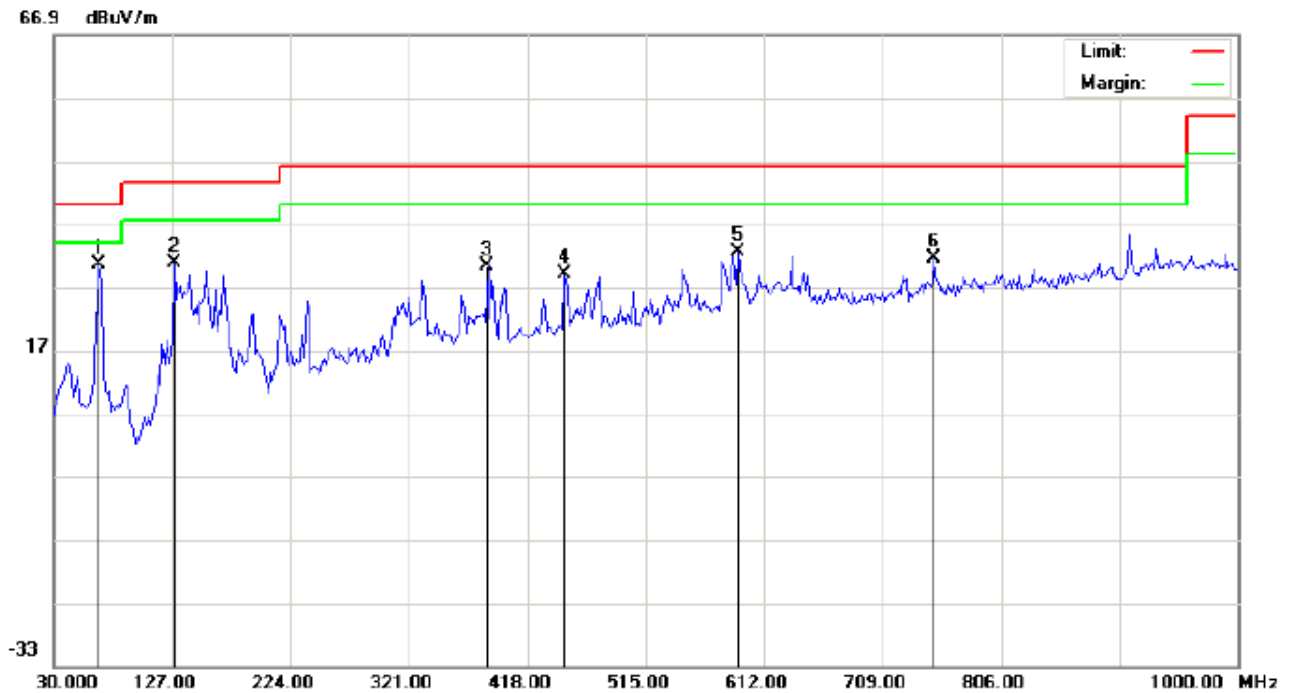
Polarization: *Horizontal*  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	65.5664	23.93	5.93	29.86	40.00	-10.14	peak			
2		236.9333	18.34	8.23	26.57	46.00	-19.43	peak			
3		333.9331	17.44	17.67	35.11	46.00	-10.89	peak			
4		448.7167	14.06	20.55	34.61	46.00	-11.39	peak			
5		710.6167	7.48	25.50	32.98	46.00	-13.02	peak			
6		852.8831	7.00	27.38	34.38	46.00	-11.62	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1  
 Limit: FCC Class B 3M Radiation  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: High Channel TX  
 Note:

Polarization: *Vertical*  
 Power:  
 Distance:

Temperature: 23.3  
 Humidity: 55.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	67.1833	25.14	5.36	30.50	40.00	-9.50	peak			
2		128.6167	20.31	10.45	30.76	43.50	-12.74	peak			
3		385.6666	11.39	18.98	30.37	46.00	-15.63	peak			
4		448.7167	8.58	20.55	29.13	46.00	-16.87	peak			
5		590.9832	9.93	22.68	32.61	46.00	-13.39	peak			
6		751.0333	4.79	26.64	31.43	46.00	-14.57	peak			

**RESULT: PASS**

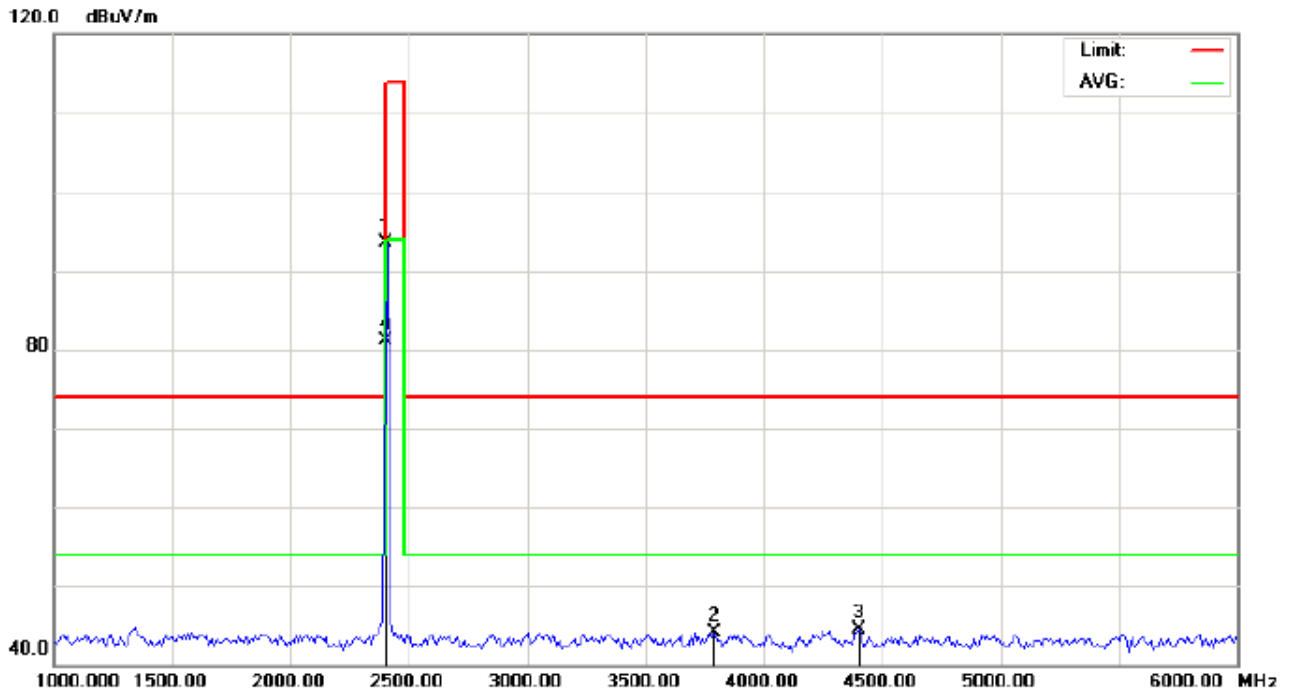
**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

**RADIATED EMISSION ABOVE 1GHZ**

**FOR BR (Worst modulation: GFSK)**

**RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL**



Site: site #1  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)-  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Low Channel TX  
 Note:

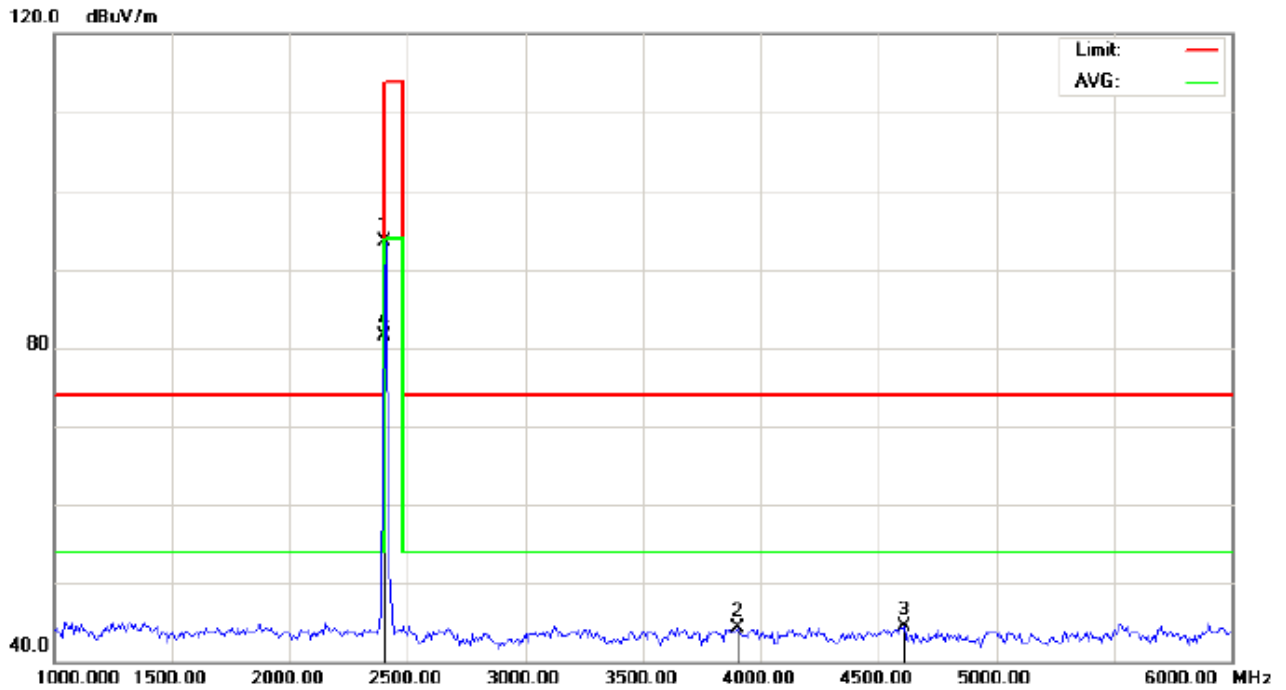
Polarization: *Horizontal*  
 Power:  
 Distance: 3m

Temperature: 26  
 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	103.21	-9.68	93.53	114.00	-20.47	peak			
2		3791.667	50.23	-6.09	44.14	74.00	-29.86	peak			
3		4400.000	47.97	-3.45	44.52	74.00	-29.48	peak			
4	*	2402.000	90.86	-9.68	81.18	94.00	-12.82	AVG	100	297	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL



Site: site #1  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)-  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Low Channel TX  
 Note:

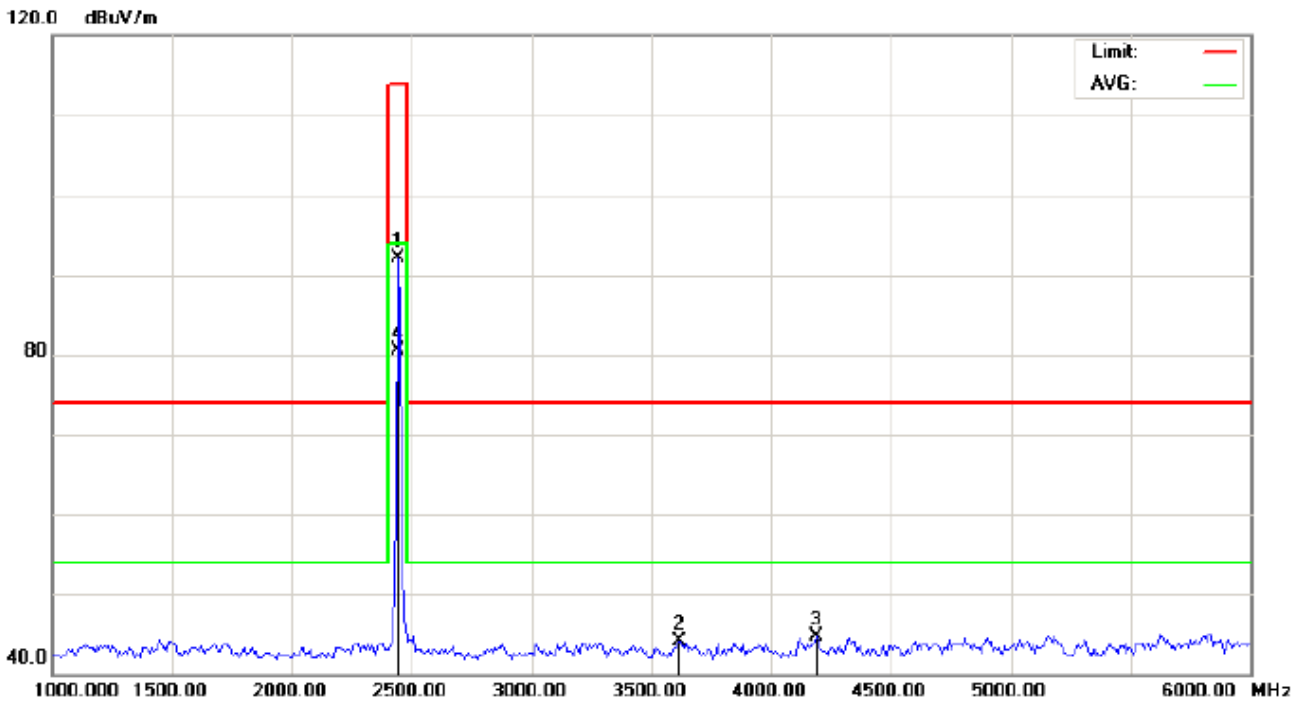
Polarization: *Vertical*  
 Power:  
 Distance: 3m

Temperature: 26  
 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	103.26	-9.68	93.58	114.00	-20.42	peak			
2		3900.000	49.82	-5.43	44.39	74.00	-29.61	peak			
3		4608.333	47.24	-2.83	44.41	74.00	-29.59	peak			
4	*	2402.000	91.20	-9.68	81.52	94.00	-12.48	AVG	100	151	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)-  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

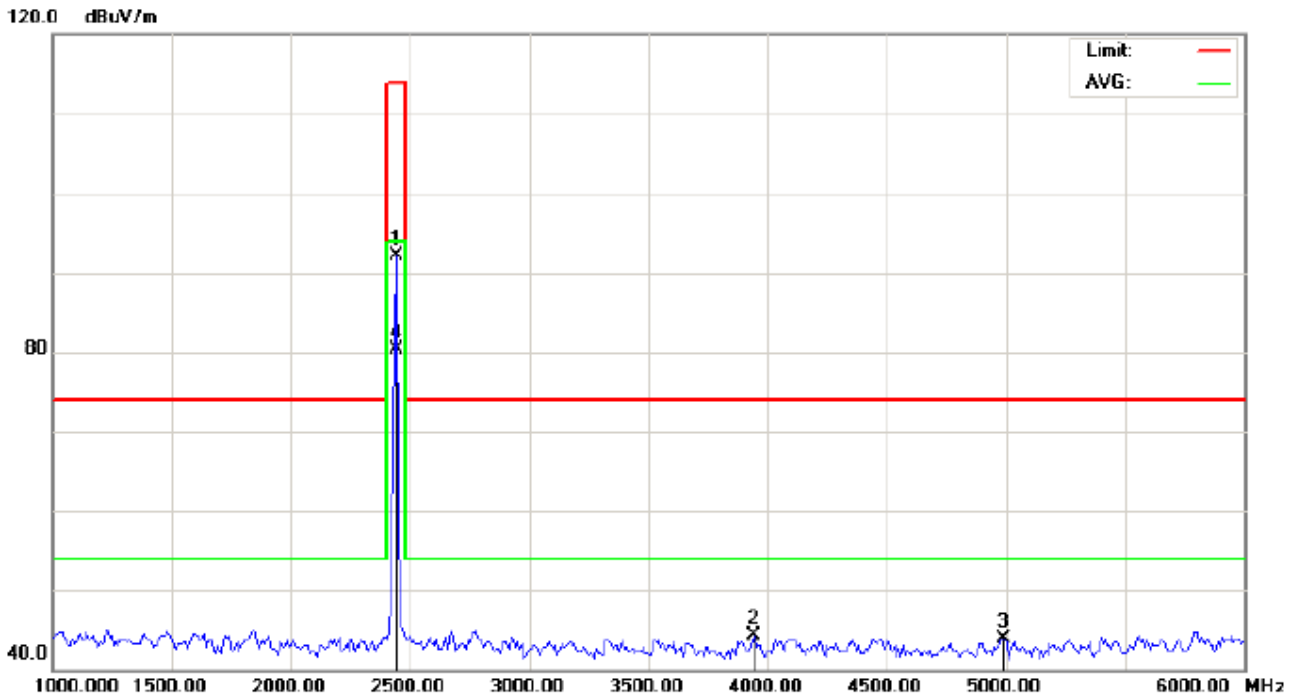
Polarization: *Horizontal*  
 Power:  
 Distance: 3m

Temperature: 26  
 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	101.80	-9.63	92.17	114.00	-21.83	peak			
2		3616.667	51.35	-7.17	44.18	74.00	-29.82	peak			
3		4191.667	48.90	-4.16	44.74	74.00	-29.26	peak			
4	*	2441.000	90.16	-9.63	80.53	94.00	-13.47	AVG	100	300	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL



Site: site #1  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)-  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

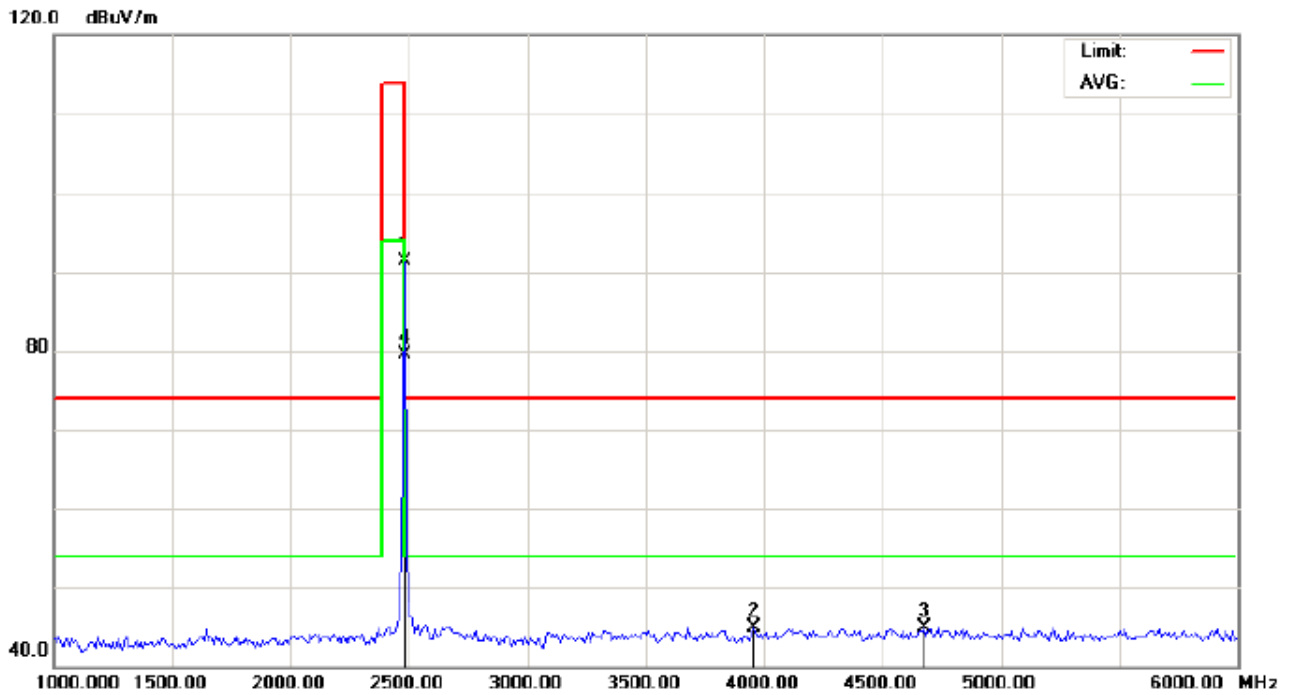
Polarization: **Vertical**  
 Power:  
 Distance: 3m

Temperature: 26  
 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	101.76	-9.63	92.13	114.00	-21.87	peak			
2		3941.667	49.41	-5.17	44.24	74.00	-29.76	peak			
3		4991.667	45.71	-1.82	43.89	74.00	-30.11	peak			
4	*	2441.000	89.84	-9.63	80.21	94.00	-13.79	AVG	100	149	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



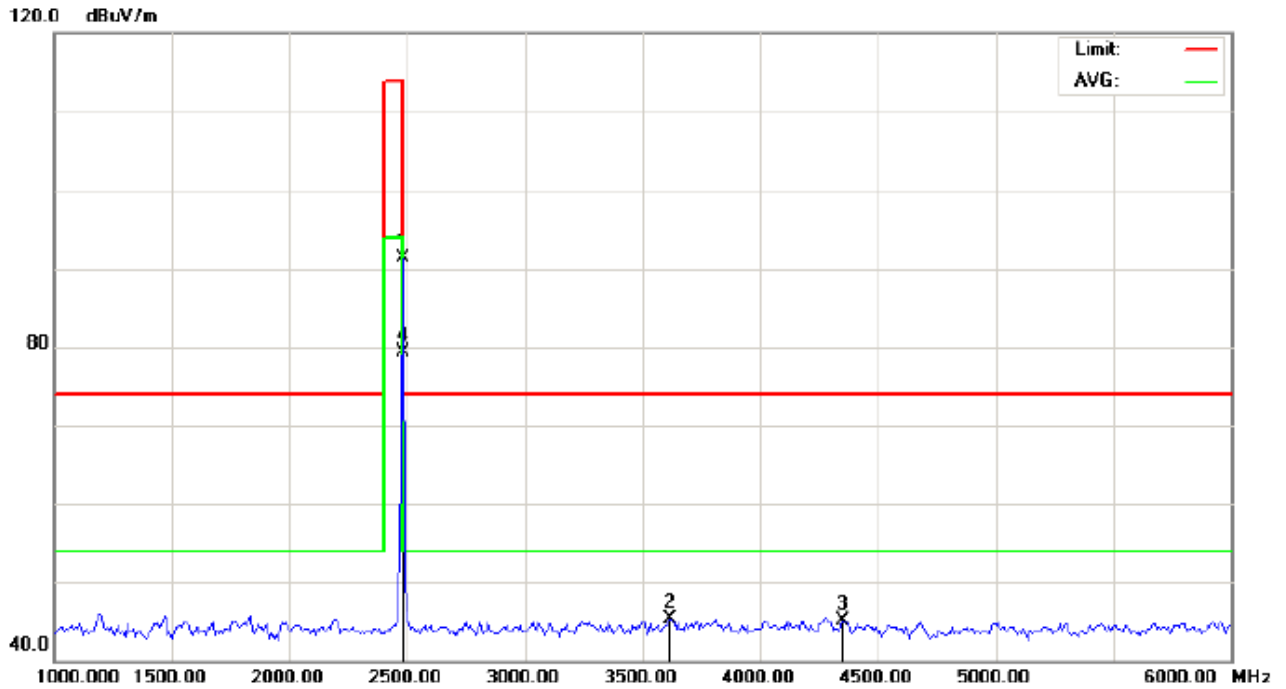
Site: site #1 Polarization: *Horizontal* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance: 3m  
 M/N: E06  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	100.84	-9.59	91.25	114.00	-22.75	peak			
2		3958.333	49.99	-5.07	44.92	74.00	-29.08	peak			
3		4675.000	47.60	-2.65	44.95	74.00	-29.05	peak			
4	*	2480.000	89.06	-9.59	79.47	94.00	-14.53	AVG	100	296	

**RESULT: PASS**



RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



Site: site #1 Polarization: *Vertical* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance: 3m  
 M/N: E06  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	100.85	-9.59	91.26	114.00	-22.74	peak			
2		3616.667	52.47	-7.17	45.30	74.00	-28.70	peak			
3		4350.000	48.65	-3.62	45.03	74.00	-28.97	peak			
4	*	2480.000	88.98	-9.59	79.39	94.00	-14.61	AVG	100	149	

**RESULT: PASS**

**Note:** 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

**Field strength of the fundamental signal (GFSK RESULT)****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	103.21	-9.68	93.53	114	-20.47	Horizontal
2402	103.26	-9.68	93.58	114	-20.42	Vertical
2441	101.80	-9.63	92.17	114	-21.83	Horizontal
2441	101.76	-9.63	92.13	114	-21.87	Vertical
2480	100.84	-9.59	91.25	114	-22.75	Horizontal
2480	100.85	-9.59	91.25	114	-22.74	Vertical

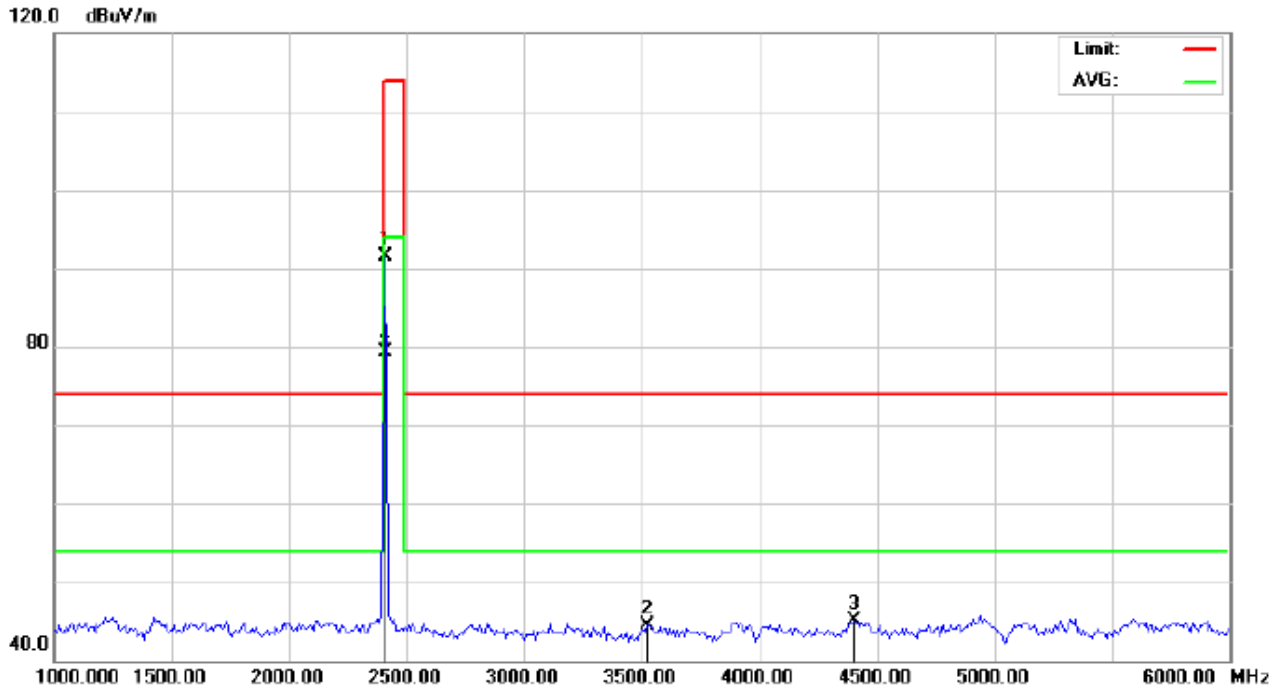
**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	90.86	-9.68	81.18	94	-12.82	Horizontal
2402	91.20	-9.68	81.52	94	-12.48	Vertical
2441	90.16	-9.63	80.53	94	-13.47	Horizontal
2441	89.84	-9.63	80.21	94	-13.79	Vertical
2480	89.06	-9.59	79.47	94	-14.53	Horizontal
2480	88.98	-9.59	79.39	94	-14.61	Vertical

**RADIATED EMISSION ABOVE 1GHZ**

**FOR BLE**

**RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL**

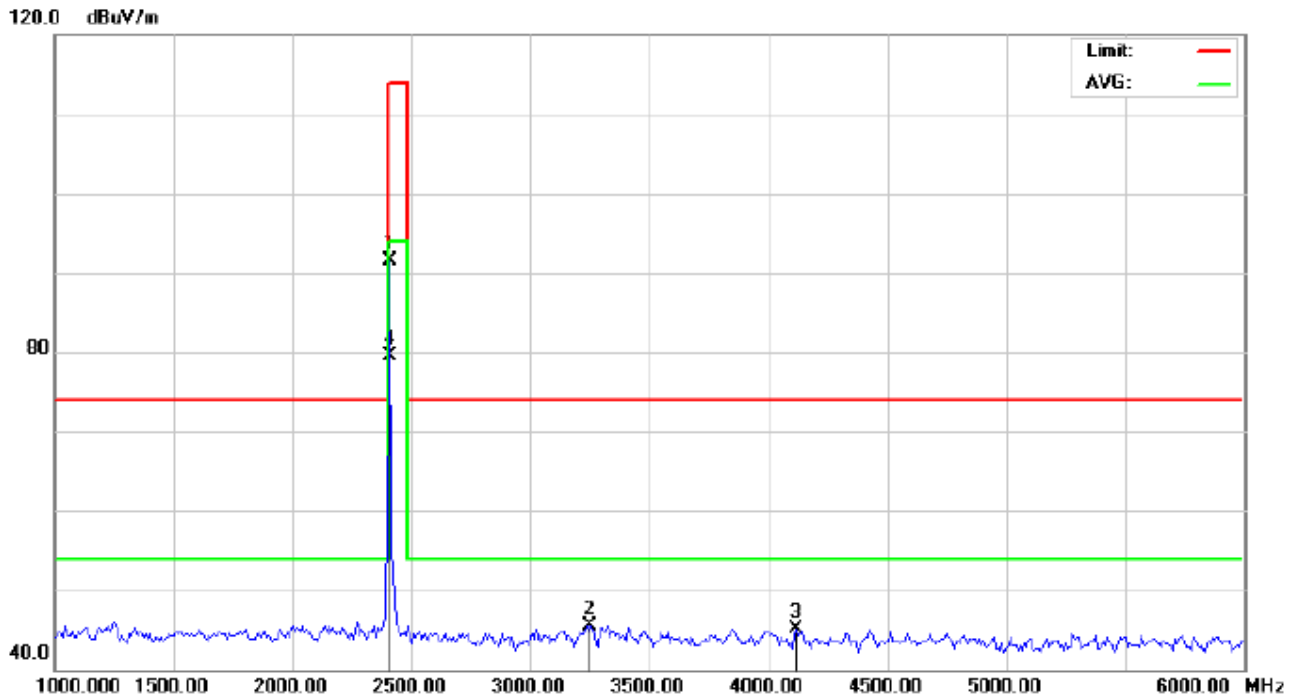


Site: Conduction Polarization: *Horizontal* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance: 3m  
 M/N: E06  
 Mode: Low Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	101.19	-9.68	91.51	114.00	-22.49	peak			
2		3525.000	52.29	-7.74	44.55	74.00	-29.45	peak			
3		4400.000	48.47	-3.45	45.02	74.00	-28.98	peak			
4	*	2402.000	89.05	-9.68	79.37	94.00	-14.63	AVG	100	206	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL

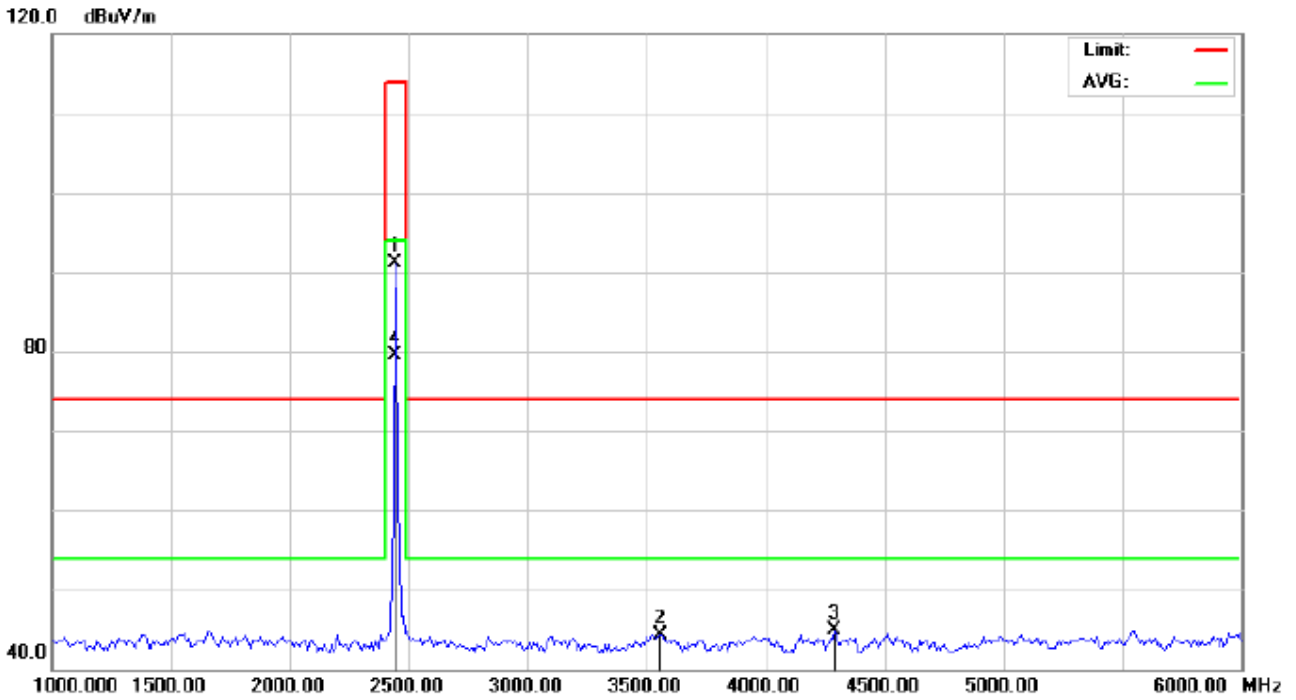


Site: Conduction Polarization: *Vertical* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance: 3m  
 M/N: E06  
 Mode: Low Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	101.25	-9.68	91.57	114.00	-22.43	peak			
2		3250.000	53.70	-8.12	45.58	74.00	-28.42	peak			
3		4116.667	49.43	-4.41	45.02	74.00	-28.98	peak			
4	*	2402.000	89.16	-9.68	79.48	94.00	-14.52	AVG	100	158	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL

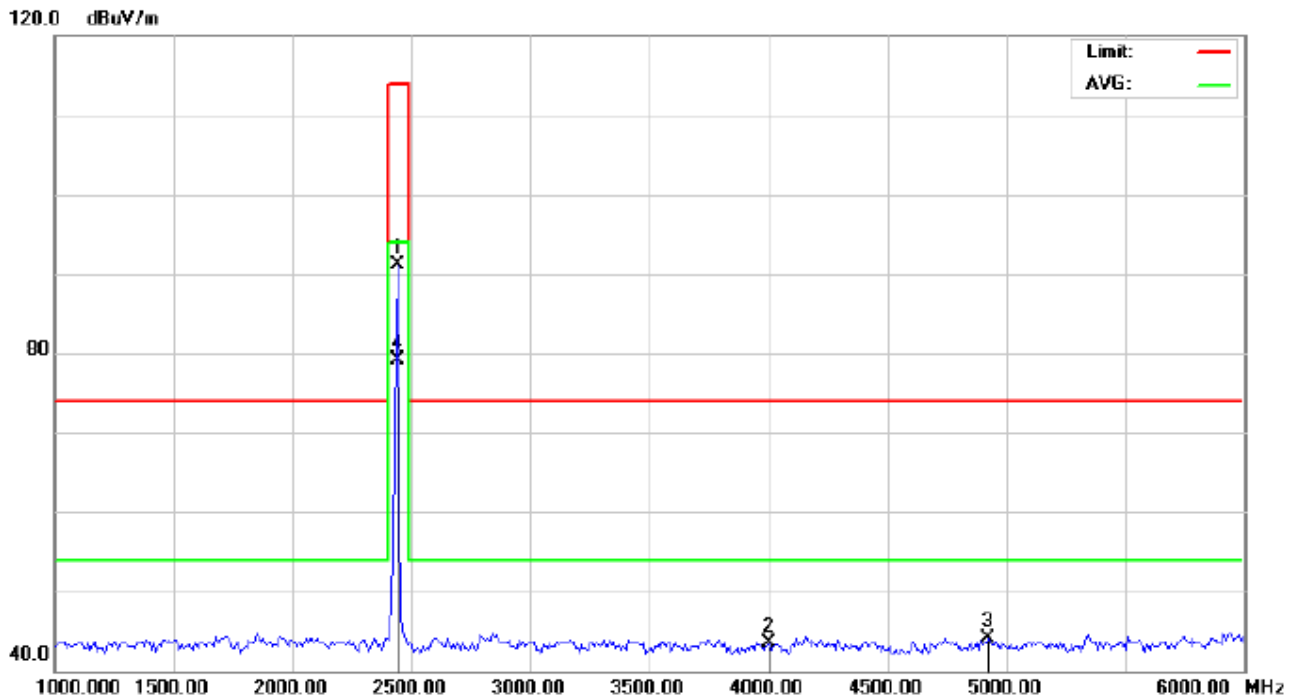


Site: Conduction Polarization: *Horizontal* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance: 3m  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2440.000	100.77	-9.64	91.13	114.00	-22.87	peak			
2		3558.333	51.89	-7.53	44.36	74.00	-29.64	peak			
3		4291.667	48.81	-3.82	44.99	74.00	-29.01	peak			
4	*	2440.000	89.07	-9.64	79.43	94.00	-14.57	AVG	100	201	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL

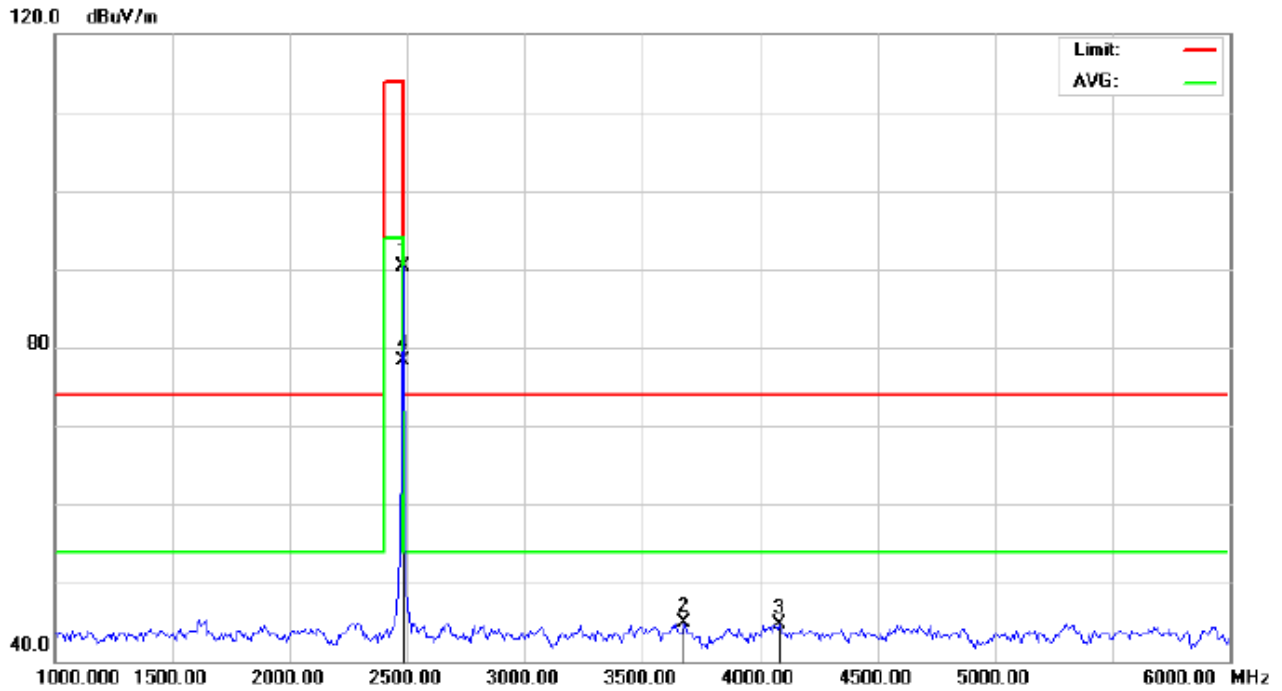


Site: Conduction Polarization: *Vertical* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance: 3m  
 M/N: E06  
 Mode: Middle Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2440.000	100.71	-9.64	91.07	114.00	-22.93	peak			
2		4000.000	48.38	-4.81	43.57	74.00	-30.43	peak			
3		4925.000	46.05	-2.00	44.05	74.00	-29.95	peak			
4	*	2440.000	88.67	-9.64	79.03	94.00	-14.97	AVG	100	155	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL

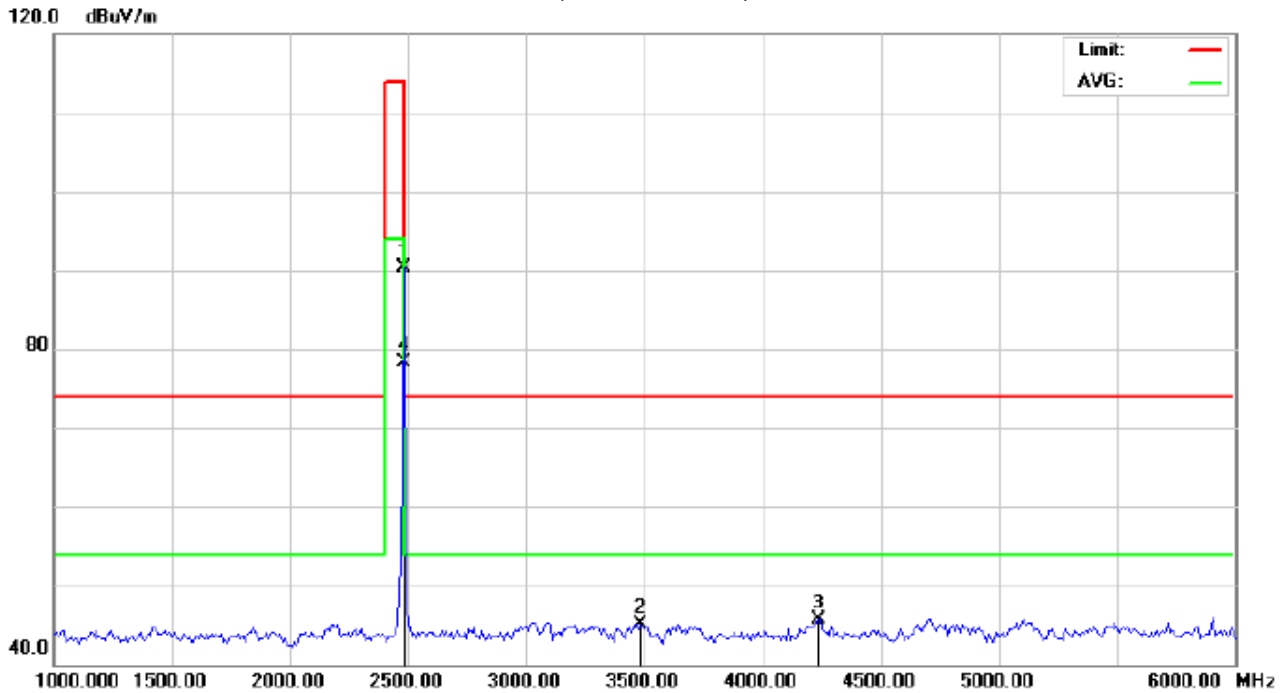


Site: Conduction      Polarization: *Horizontal*      Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)-      Power:      Humidity: 60 %  
 EUT: Bluetooth Headphone      Distance: 3m  
 M/N: E06  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	99.91	-9.59	90.32	114.00	-23.68	peak			
2		3675.000	51.67	-6.81	44.86	74.00	-29.14	peak			
3		4083.333	49.23	-4.53	44.70	74.00	-29.30	peak			
4	*	2480.000	87.81	-9.59	78.22	94.00	-15.78	AVG	100	201	

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



Site: Conduction Polarization: *Vertical* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance: 3m  
 M/N: E06  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	99.88	-9.59	90.29	114.00	-23.71	peak			
2		3483.333	53.09	-7.91	45.18	74.00	-28.82	peak			
3		4233.333	49.77	-4.02	45.75	74.00	-28.25	peak			
4	*	2480.000	87.88	-9.59	78.29	94.00	-15.71	AVG	100	163	

**RESULT: PASS**

**Note:** 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



**Field strength of the fundamental signal****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	101.19	-9.68	91.51	114	-22.49	Horizontal
2402	101.25	-9.68	91.57	114	-22.43	Vertical
2440	100.77	-9.64	91.13	114	-22.87	Horizontal
2440	100.71	-9.64	91.07	114	-22.93	Vertical
2480	99.91	-9.59	90.32	114	-23.68	Horizontal
2480	99.88	-9.59	90.29	114	-23.71	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	89.05	-9.68	79.37	94	-14.63	Horizontal
2402	89.16	-9.68	79.48	94	-14.52	Vertical
2440	89.07	-9.64	79.43	94	-14.57	Horizontal
2440	88.67	-9.64	79.03	94	-14.97	Vertical
2480	87.81	-9.59	78.22	94	-15.78	Horizontal
2480	87.88	-9.59	78.29	94	-15.71	Vertical

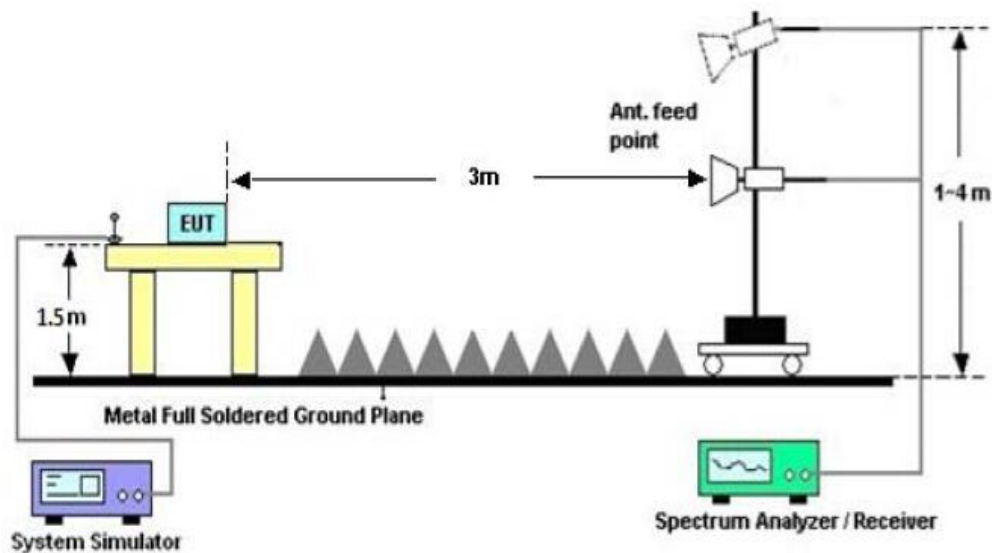
## 9. BAND EDGE EMISSION

### 9.1. MEASUREMENT PROCEDURE

- 1The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission

### 9.2 TEST SETUP

RADIATED EMISSION TEST SETUP





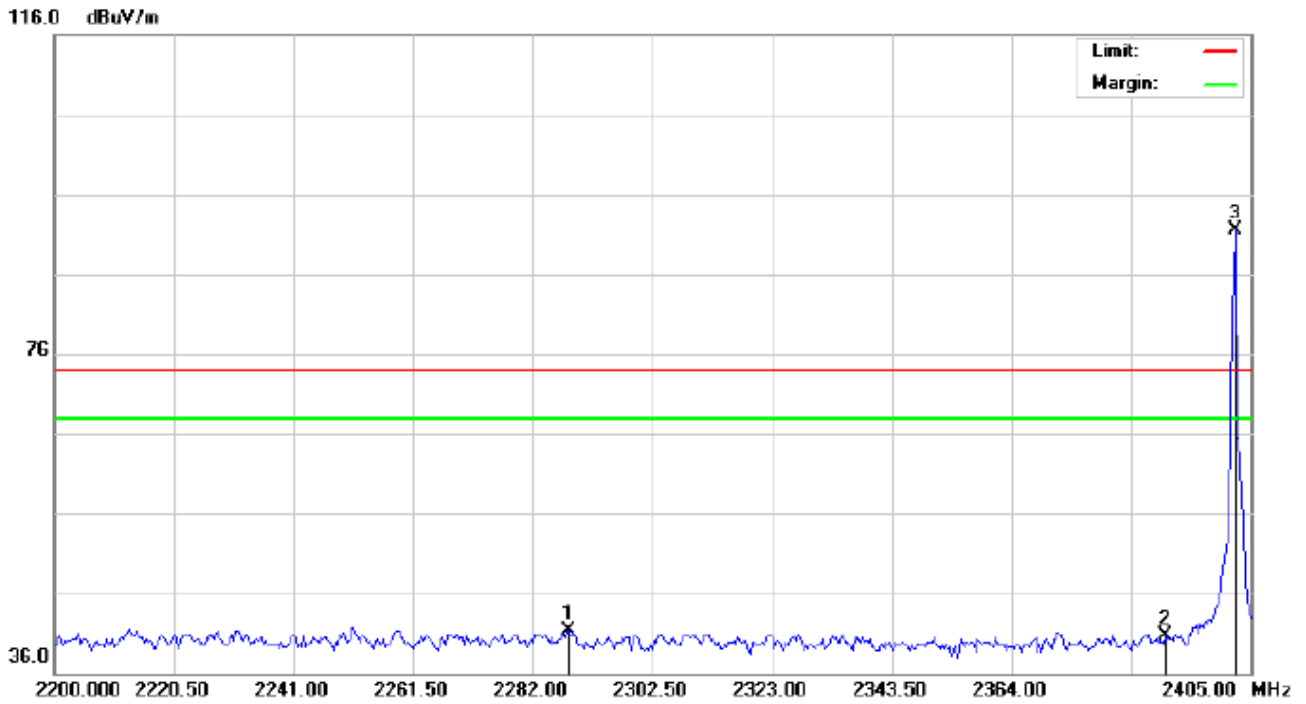








TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

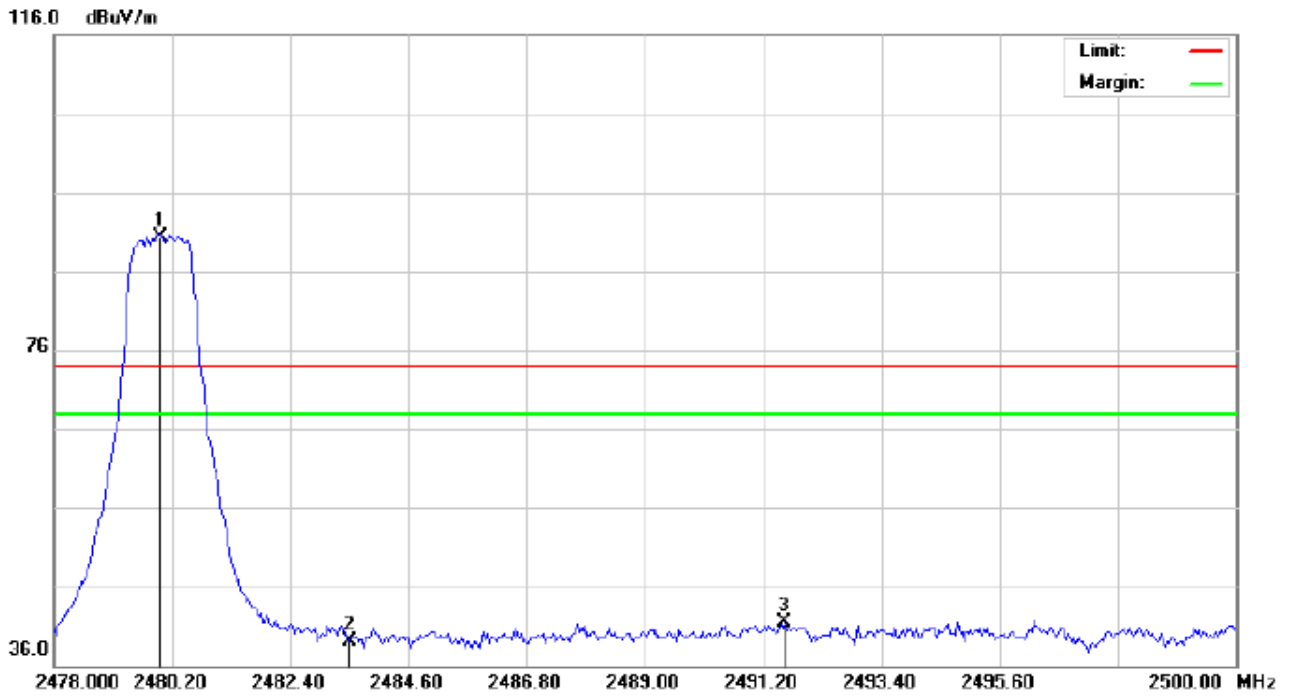


Site: Conduction Polarization: *Vertical* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance:  
 M/N: E06  
 Mode: Low Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2288.150	31.16	10.20	41.36	74.00	-32.64	peak			
2		2390.000	30.35	10.31	40.66	74.00	-33.34	peak			
3	*	2402.000	81.26	10.32	91.58	74.00	17.58	peak			



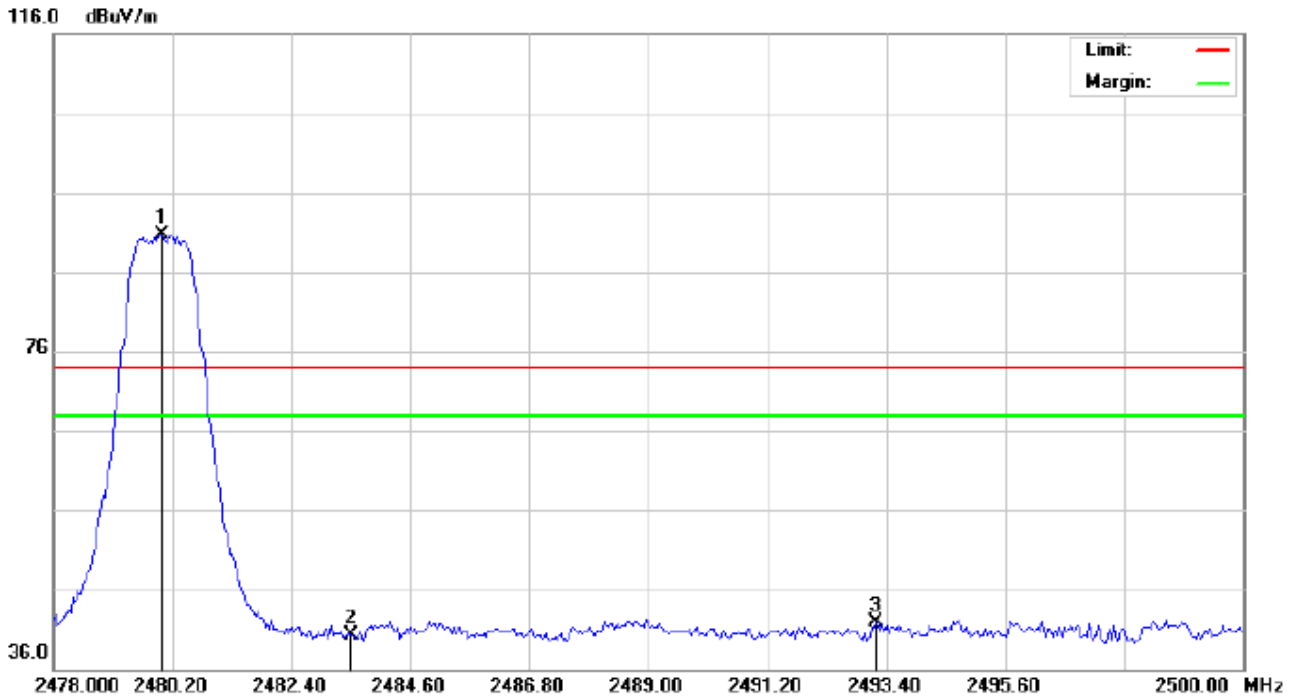
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



Site: Conduction Polarization: *Horizontal* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance:  
 M/N: E06  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	79.96	10.41	90.37	74.00	16.37	peak			
2		2483.500	28.75	10.41	39.16	74.00	-34.84	peak			
3		2491.603	31.04	10.42	41.46	74.00	-32.54	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: Conduction Polarization: *Vertical* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
 EUT: Bluetooth Headphone Distance:  
 M/N: E06  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	80.35	10.41	90.76	74.00	16.76	peak			
2		2483.500	29.87	10.41	40.28	74.00	-33.72	peak			
3		2493.217	31.39	10.42	41.81	74.00	-32.19	peak			

**RESULT: PASS**

**Note:** The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

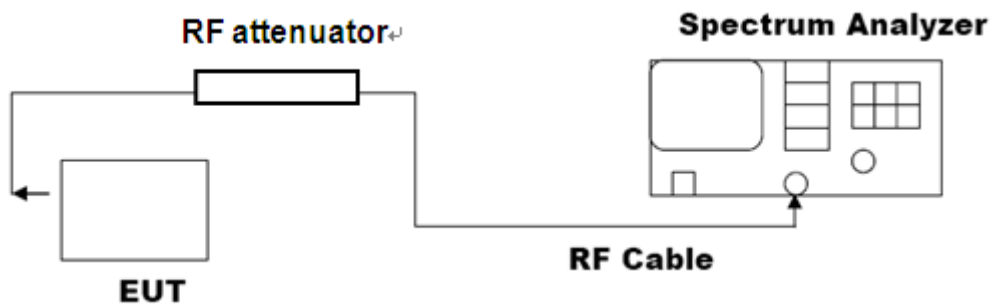
## 10. 20DB BANDWIDTH

### 10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel  
RBW  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

### 10.2. TEST SET-UP

(BLOCK DIAGRAM OF CONFIGURATION)



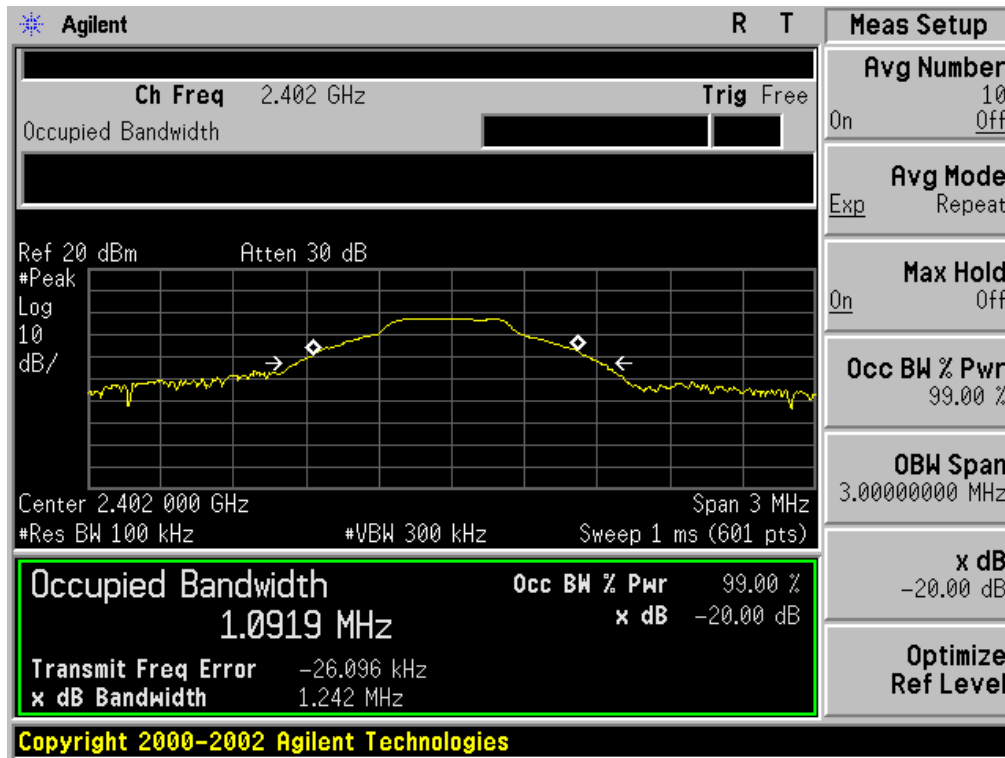
Note: The EUT has been used temporary antenna connector for testing.

### 10.3. LIMITS AND MEASUREMENT RESULTS

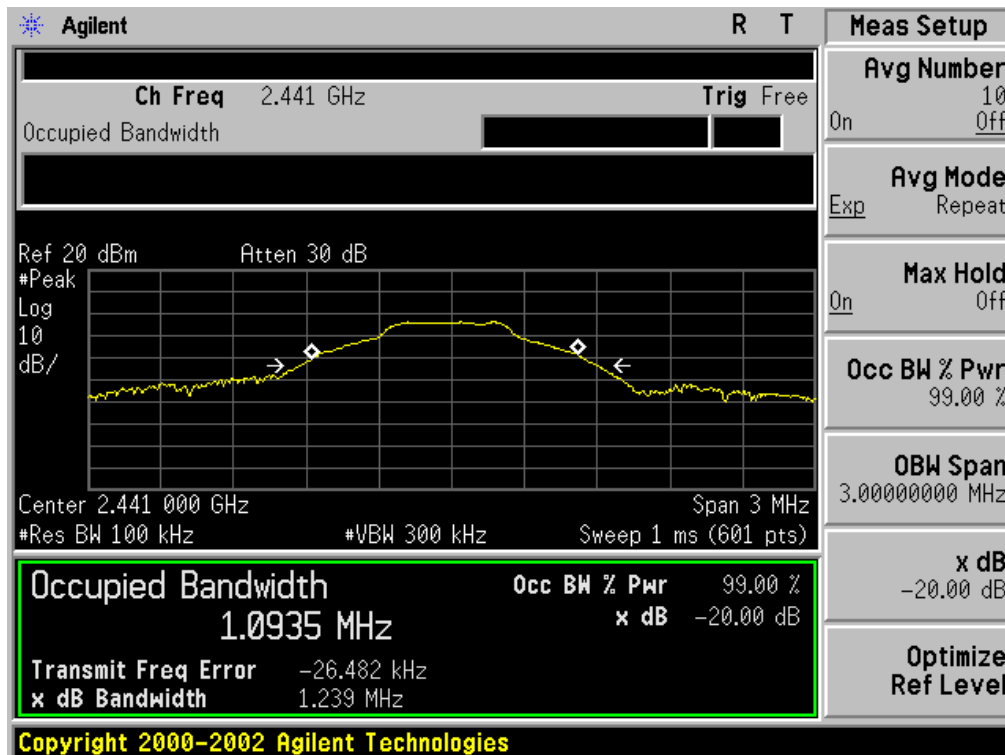
FOR BR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	1.242	PASS
	Middle Channel	1.239	PASS
	High Channel	1.252	PASS

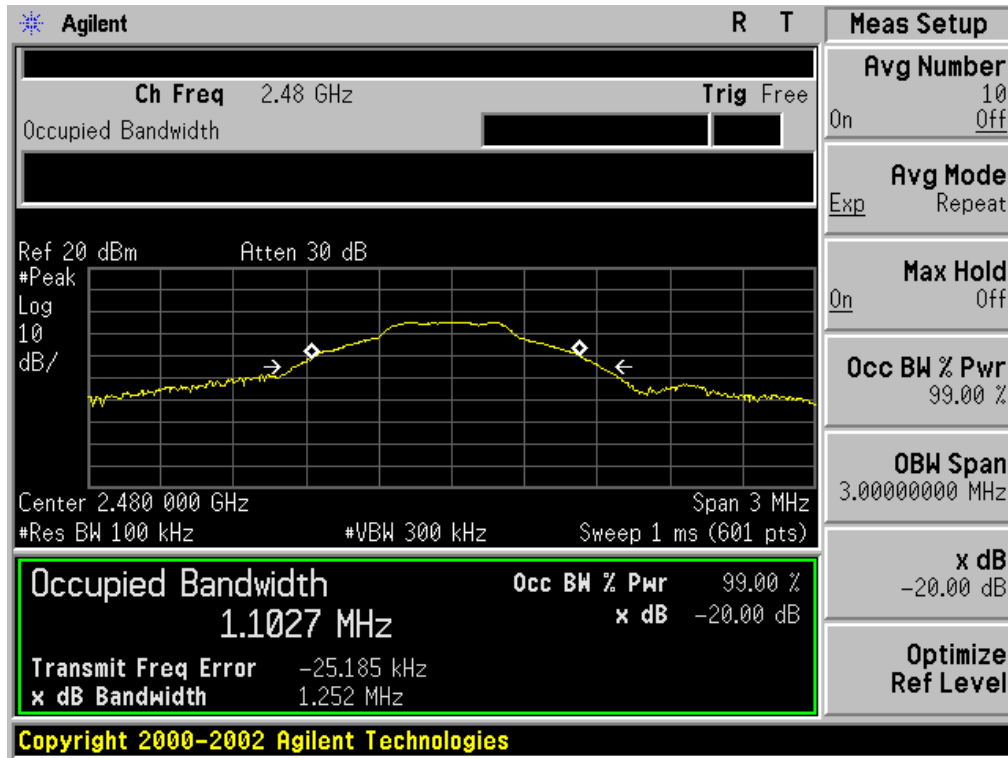
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



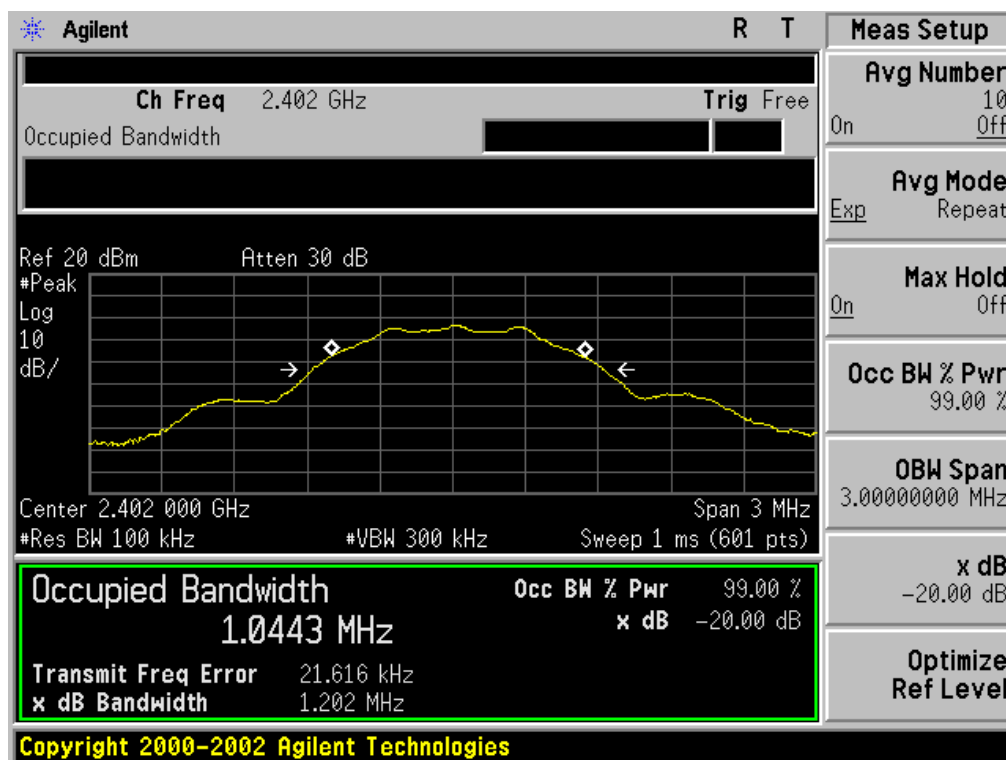
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



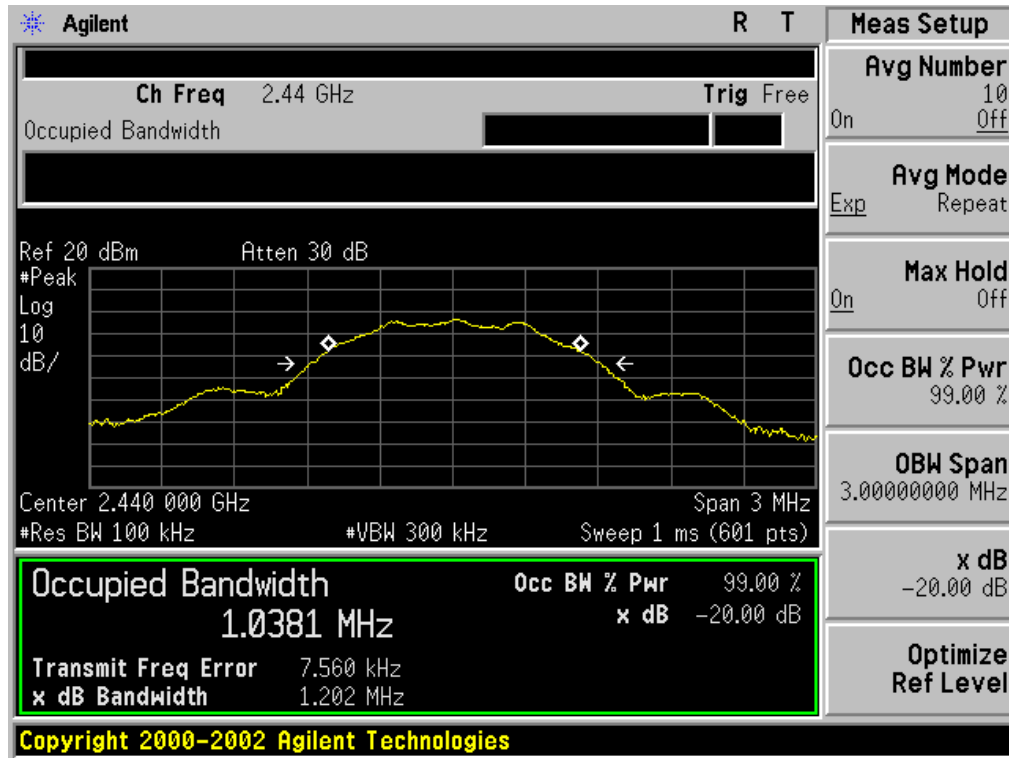
FOR BLE

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	1.202	PASS
	Middle Channel	1.202	PASS
	High Channel	1.193	PASS

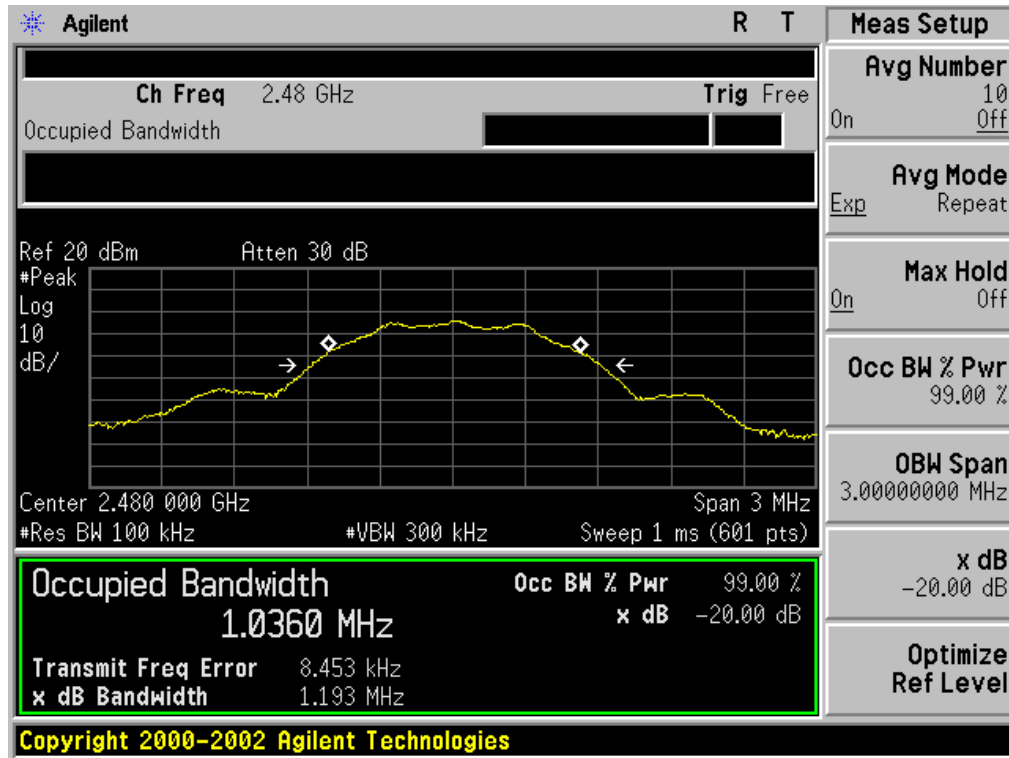
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





## 11. FCC LINE CONDUCTED EMISSION TEST

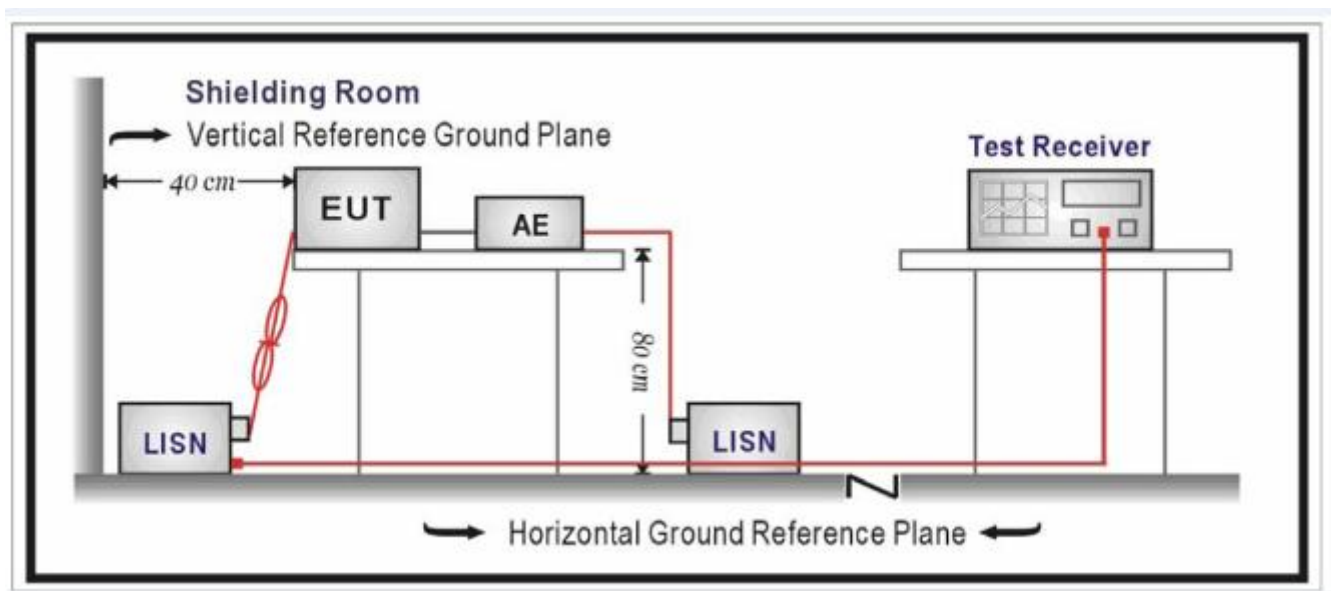
### 11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



### **11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by PC or by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### **11.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST**

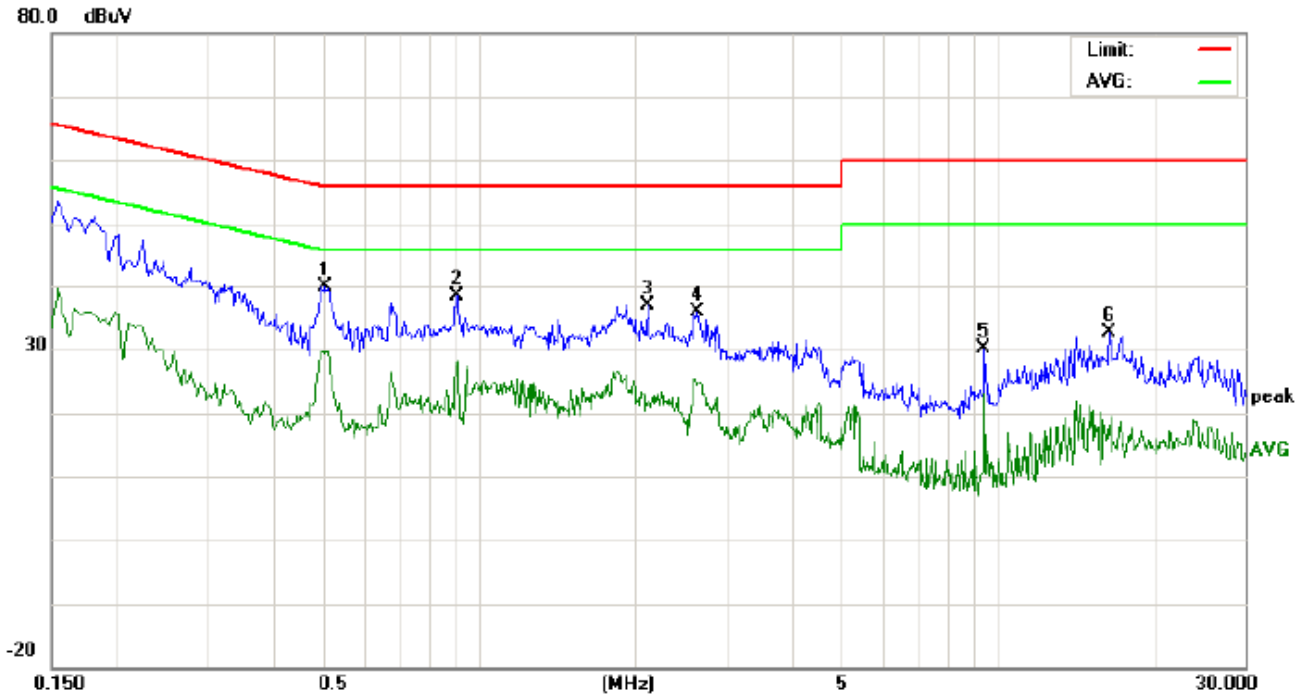
- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

### 11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR

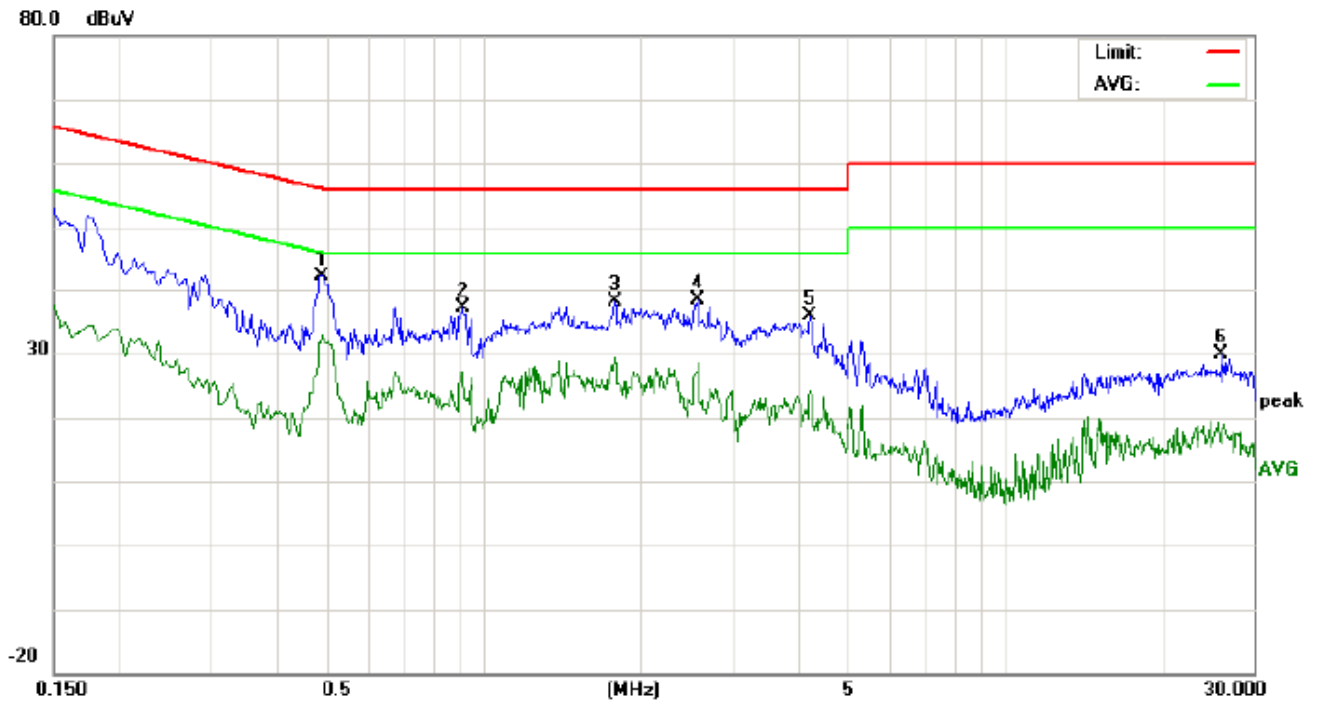
Line Conducted Emission Test Line 1-L



Site: Conduction Phase: **L1** Temperature: 23.4  
 Limit: EN55022 Class B Conduction(QP) Power: Humidity: 55.2 %  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: BT Link with charging  
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.5060	29.57		18.88	10.39	39.96		29.27	56.00	46.00	-16.04	-16.73	P	
2	0.9060	28.02		17.56	10.41	38.43		27.97	56.00	46.00	-17.57	-18.03	P	
3	2.1139	26.68		11.00	10.27	36.95		21.27	56.00	46.00	-19.05	-24.73	P	
4	2.6379	25.41		13.97	10.46	35.87		24.43	56.00	46.00	-20.13	-21.57	P	
5	9.4178	19.68		12.69	10.35	30.03		23.04	60.00	50.00	-29.97	-26.96	P	
6	16.4099	22.59		6.86	10.12	32.71		16.98	60.00	50.00	-27.29	-33.02	P	

Line Conducted Emission Test Line 2-N

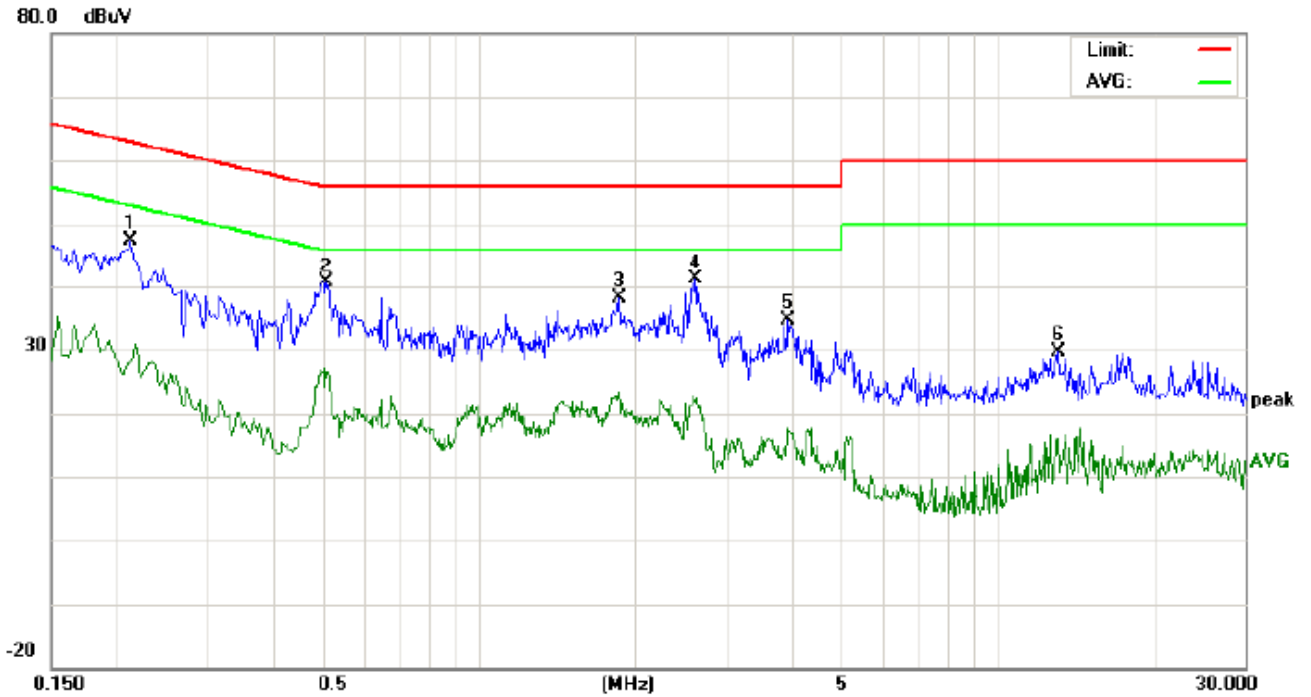


Site: Conduction Phase: **N** Temperature: 23.4  
 Limit: EN55022 Class B Conduction(QP) Power: Humidity: 55.2 %  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: BT Link with charging  
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.4900	31.63		22.40	10.39	42.02		32.79	56.17	46.17	-14.15	-13.38	P	
2	0.9100	26.81		16.72	10.41	37.22		27.13	56.00	46.00	-18.78	-18.87	P	
3	1.7860	27.87		18.99	10.29	38.16		29.28	56.00	46.00	-17.84	-16.72	P	
4	2.5940	27.80		18.06	10.45	38.25		28.51	56.00	46.00	-17.75	-17.49	P	
5	4.2459	25.54		13.72	10.32	35.86		24.04	56.00	46.00	-20.14	-21.96	P	
6	26.1020	19.72		7.50	10.11	29.83		17.61	60.00	50.00	-30.17	-32.39	P	

FOR BLE

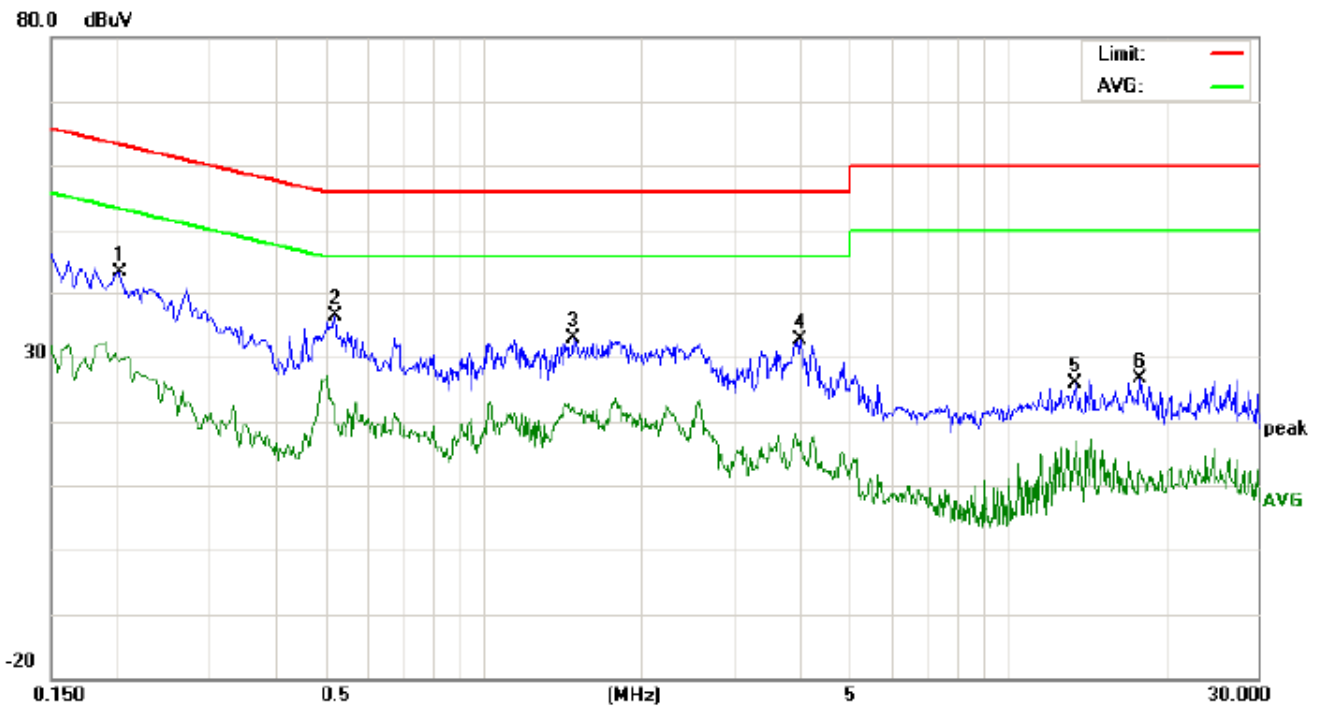
Line Conducted Emission Test Line 1-L



Site: Conduction Phase: L1 Temperature: 22.7  
 Limit: EN55013 Class B Conduction(QP) Power: Humidity: 53.9 %  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: BT Link with charging  
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2127	37.16		17.91	10.23	47.39		28.14	63.10	53.10	-15.71	-24.96	P	
2	0.5100	30.19		16.18	10.39	40.58		26.57	56.00	46.00	-15.42	-19.43	P	
3	1.8620	27.94		13.23	10.26	38.20		23.49	56.00	46.00	-17.80	-22.51	P	
4	2.6220	30.78		11.57	10.46	41.24		22.03	56.00	46.00	-14.76	-23.97	P	
5	3.9620	24.08		7.21	10.44	34.52		17.65	56.00	46.00	-21.48	-28.35	P	
6	13.1099	19.36		6.00	10.14	29.50		16.14	60.00	50.00	-30.50	-33.86	P	

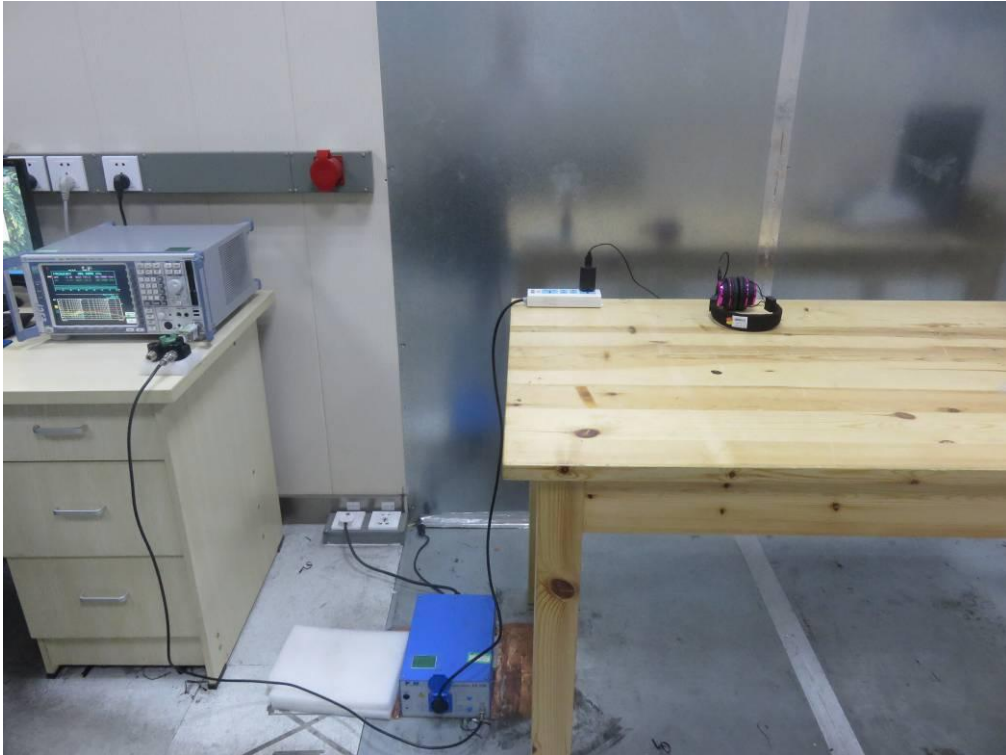
Line Conducted Emission Test Line 2-N



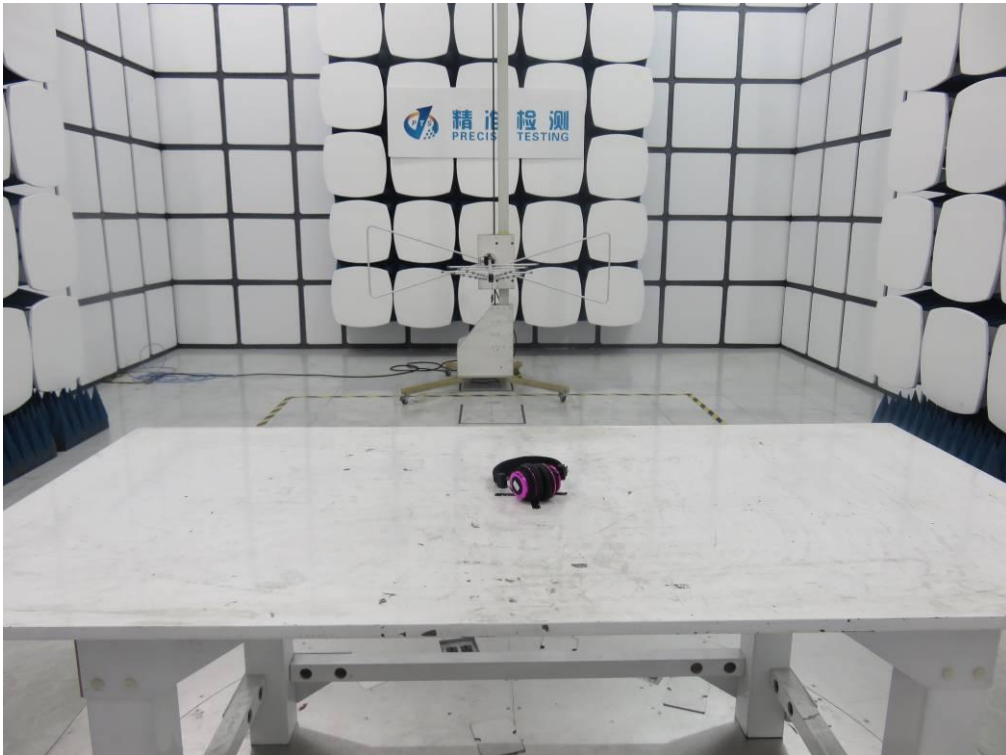
Site: Conduction Phase: **N** Temperature: 22.7  
 Limit: EN55013 Class B Conduction(QP) Power: Humidity: 53.9 %  
 EUT: Bluetooth Headphone  
 M/N: E06  
 Mode: BT Link with charging  
 Note:

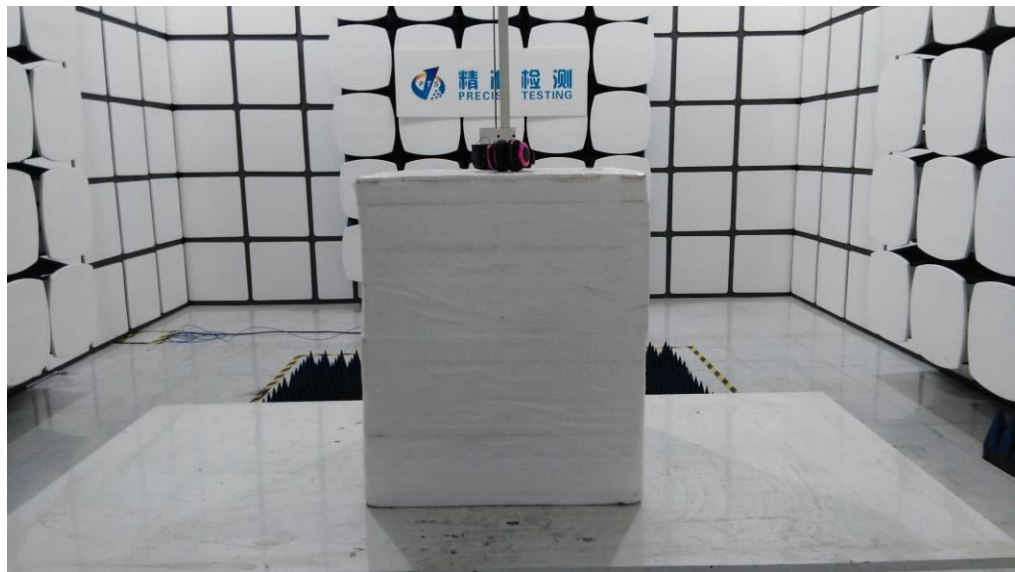
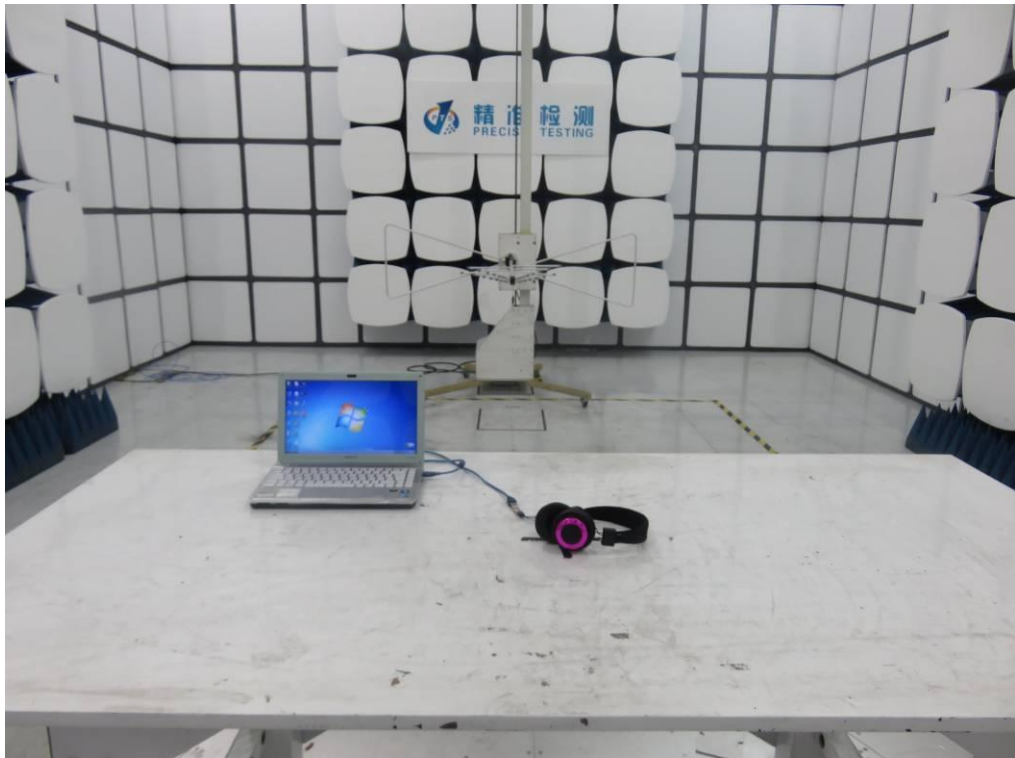
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2020	33.04		19.05	10.22	43.26		29.27	63.52	53.52	-20.26	-24.25	P	
2	0.5220	25.87		9.25	10.38	36.25		19.63	56.00	46.00	-19.75	-26.37	P	
3	1.4899	22.43		11.72	10.38	32.81		22.10	56.00	46.00	-23.19	-23.90	P	
4	4.0099	22.22		6.42	10.43	32.65		16.85	56.00	46.00	-23.35	-29.15	P	
5	13.5099	15.72		6.69	10.13	25.85		16.82	60.00	50.00	-34.15	-33.18	P	
6	17.8938	16.43		2.21	10.12	26.55		12.33	60.00	50.00	-33.45	-37.67	P	

**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
FCC LINE CONDUCTED EMISSION TEST SETUP

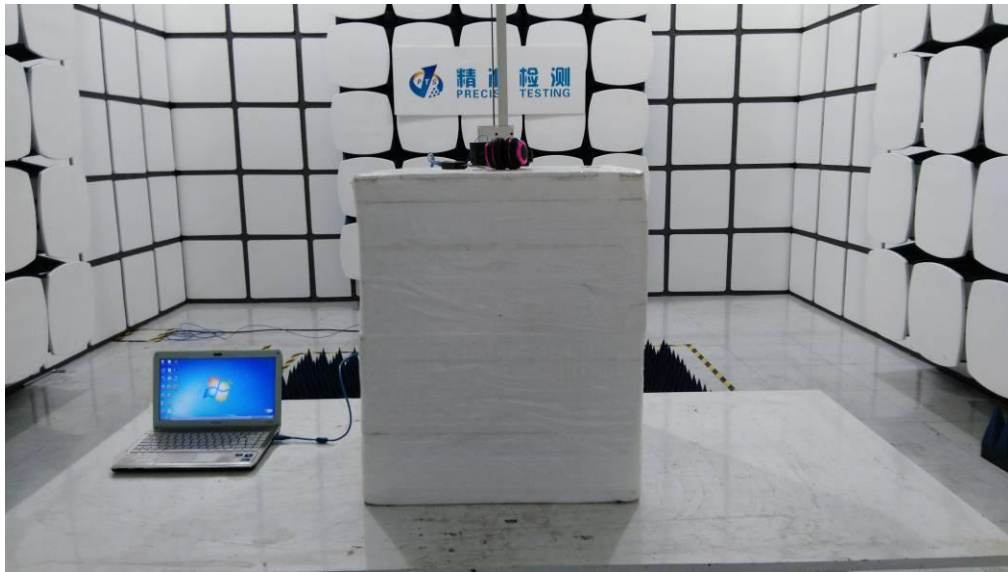


FCC RADIATED EMISSION TEST SETUP









## APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



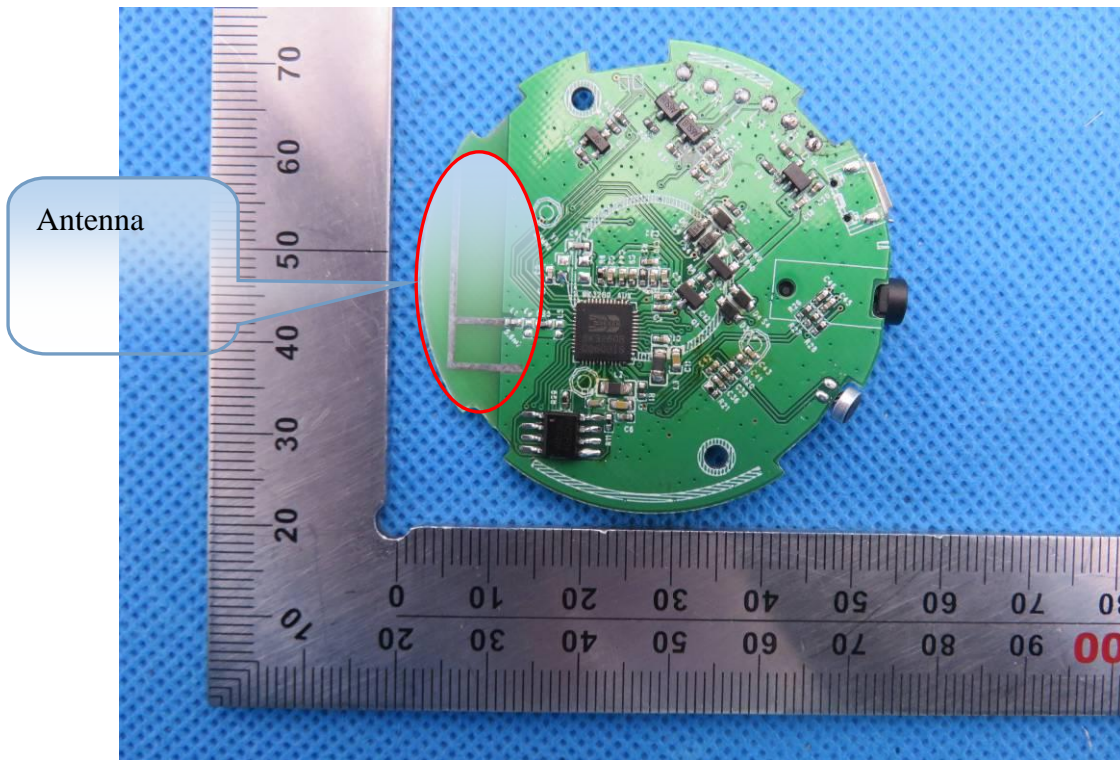
VIEW OF EUT (PORT)



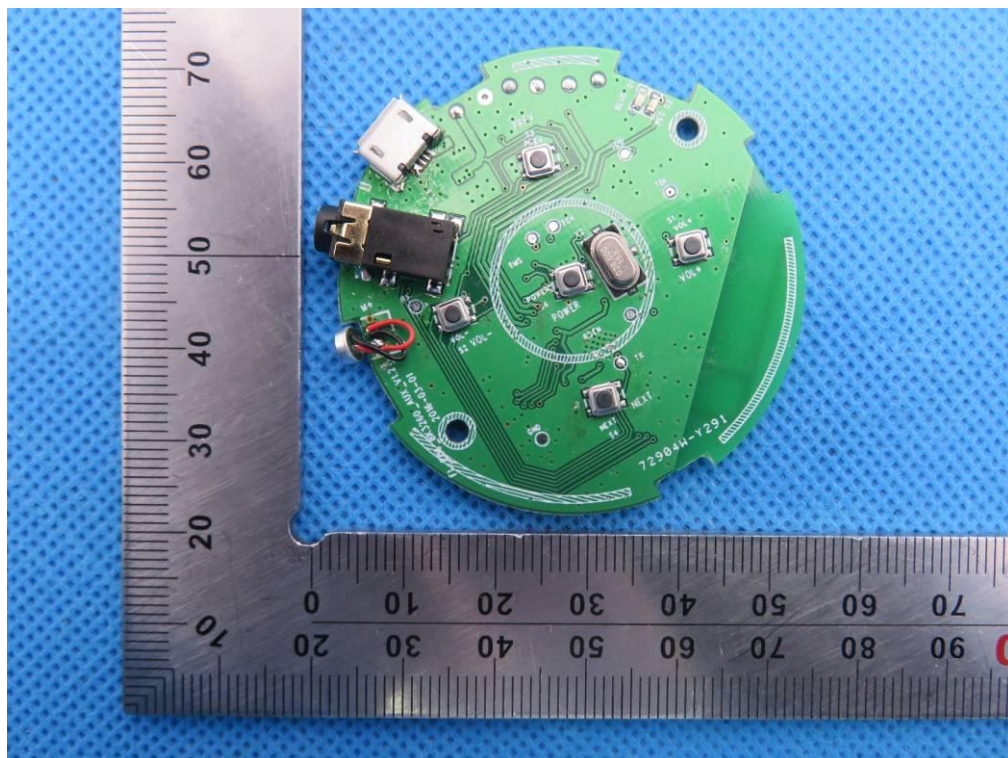
OPEN VIEW OF EUT



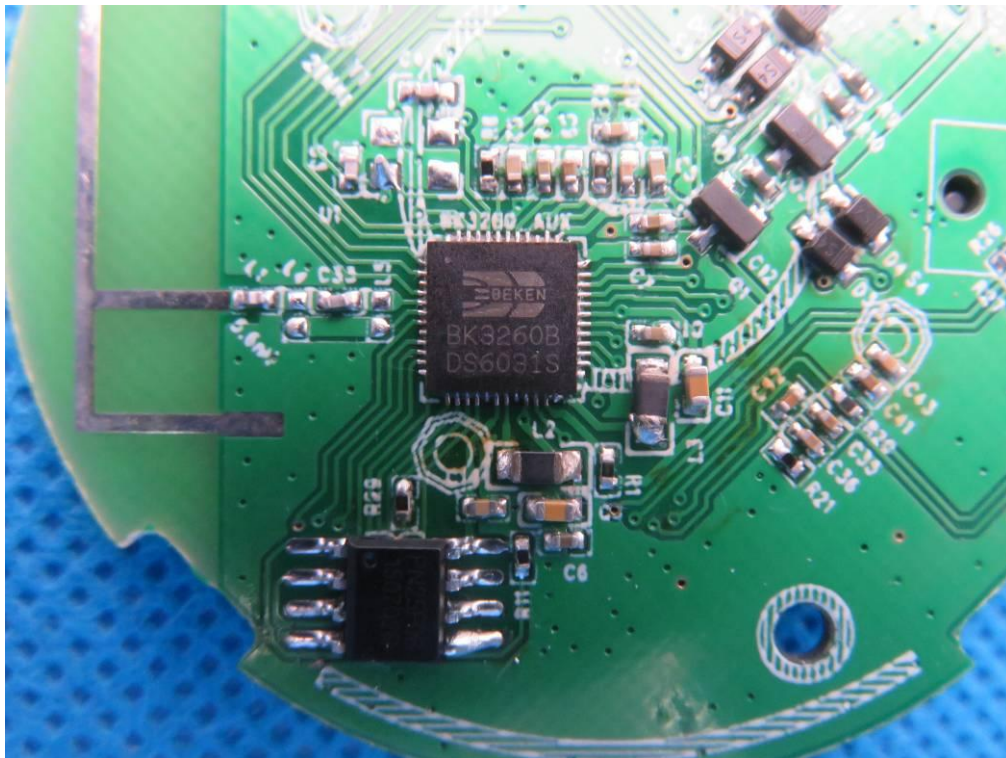
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



ADAPTER VIEW (AE)



----END OF REPORT----