



TEST REPORT

For

Applicant : chana perl inc

Address : 7 sasev ct unit 201 Monroe NY 10950 USA

Product Name : Bluetooth headset

Model Name : ZV-600

Brand Name : The Zivigo logo consists of a stylized blue and orange circular graphic to the left of the word "ZIVIGO" in a bold, blue, sans-serif font.

FCC ID : 2AFF3ZV-600

Report No. : MTE/SAS/A15070879

Date of Issue : Jul. 22, 2015

Issued by : Most Technology Service Co., Ltd.

**Address : No.5, 2nd Langshan Road, North District, Hi-tech Industrial
Park, Nanshan, Shenzhen, Guangdong, China**

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Bluetooth headset

Brand Name:



Model Number: ZV-600

FCC ID: 2AFF3ZV-600

Applicant: chana perl inc

7 sasev ct unit 201 Monroe NY 10950 USA

Manufacturer: Rambo Industrial Limited

3A05, Block 3, 182 Design Park, NO 182, Bulan Rd, Buji Longgang district, Shenzhen China

Technical Standards: 47 CFR Part 15 Subpart C

File Number: MTE/SAS/A15070879

Date of test: Jul. 15-22, 2015

Deviation: None

Condition of Test Sample: Normal

Test Result: PASS

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Sara

Sara shi

Jul. 15, 2015

Review by (+ signature):

Henry

Henry Chen

Jul. 22, 2015



Approved by (+ signature):

Yvette Zhou

Yvette Zhou(Manager)

Jul. 22, 2015

2. GENERAL INFORMATION

2.1 Product Information

Product	Bluetooth headset
Brand Name	
Model Number	ZV-600
Series Model Name:	Nil
Series Model Difference description:	Nil
Power Supply	1.DC 3.7V by battery 2.DC 5V by Adapter
Frequency Range	2402MHz -2480MHz
Modulation Type:	GFSK
Channel Number	40
Antenna Type	Internal PCB Antenna, 3.25 dBi
Temperature Range	0°C ~ +40°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to FCC Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices
2	KDB 558074	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

2.3 Test Standards and Results

No.	Section	Test Items	Result	Date of Test
1	FCC 15.247 (i)	RF EXPOSURE	PASS	2015-07-15
2	FCC 15.203	Antenna Requirement	PASS	2015-07-15
3	FCC15.209, 15.247(d)	Radiated Emission	PASS	2015-07-16
4	FCC15.207 (a)	AC Power Line Conducted Emission	PASS	2015-07-22
5	FCC15.247(b)(3)	Conducted Peak Output Power	PASS	2015-07-22
6	FCC15.247(a)(2)	6dB Emission Bandwidth	PASS	2015-07-16
7	FCC15.247(e)	Power Spectral Density	PASS	2015-07-15
8	FCC15.247(d)	Band Edge and Conducted Spurious Emissions	PASS	2015-07-15
9	FCC15.247(d)	Restricted Frequency Bands	PASS	2015-07-15

Note: 1. The test result judgment is decided by the limit of measurement standard
 2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

3. TEST METHODOLOGY

3.1 TEST FACILITY

Test Site:	Most Technology Service Co., Ltd
Location:	No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014 and CISPR 16 requirements. The FCC Registration Number is 490827 . The IC Registration Number is 7103A-1 .
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument	All measuring equipment is in accord with ANSI C63.4:2014 and CISPR 16
Tolerance:	requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 8.3.1 of ANSI C63.4:2009.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.3 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Input	Output
Adapter	---	STC-A515A-Z	---	100-240V~ 50/60Hz	dc 5.0V 1500 mA

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2015/03/14	1 Year
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2015/03/10	1 Year
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07	1 Year
5	Terminator	Hubersuhner	50Ω	No.1	2015/03/07	1 Year
6	RF Cable	SchwarzBeck	N/A	No.1	2015/03/07	1 Year
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2015/03/10	1 Year
8	Bilog Antenna	Sunol	JB3	A121206	2015/03/14	1 Year
9	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2015/03/14	1 Year
10	Horn Antenna	Penn Engineering	9034	8376	2015/03/14	1 Year
11	Cable	Resenberger	N/A	NO.1	2015/03/07	1 Year
12	Cable	SchwarzBeck	N/A	NO.2	2015/03/07	1 Year
13	Cable	SchwarzBeck	N/A	NO.3	2015/03/07	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2015/03/07	1 Year
15	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
16	Loop antenna	ARA	PLA-1030/B	1039	2015/03/14	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 RF EXPOSURE

5.1.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v05r02:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where} \right.$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.1.2 Measurement Result

The maximum conducted output power = -0.072 dBm (0.9836 mW) at 2480 MHz $\left[\frac{(\text{max. power of channel, mW})}{(\text{min. test separation distance, mm})} \cdot [\sqrt{f(\text{GHz})}] \right.$

$$= 0.9836 / 5 \cdot (\sqrt{2.480}) = 0.3098 < 3.0$$

So the stand-alone SAR evaluation is not necessary.

5.2 ANTENNA REQUIREMENT

5.2.1 Applicable Standard

According to FCC § 15.203 , 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2.2 Evaluation Criteria

(a) Antenna must be permanently attached to the unit.

(b) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.2.3 Result: Compliance.

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 3.25 dBi, fulfill the requirement of this section.

5.3 AC Power Line Conducted Emission

5.3.1 Requirement

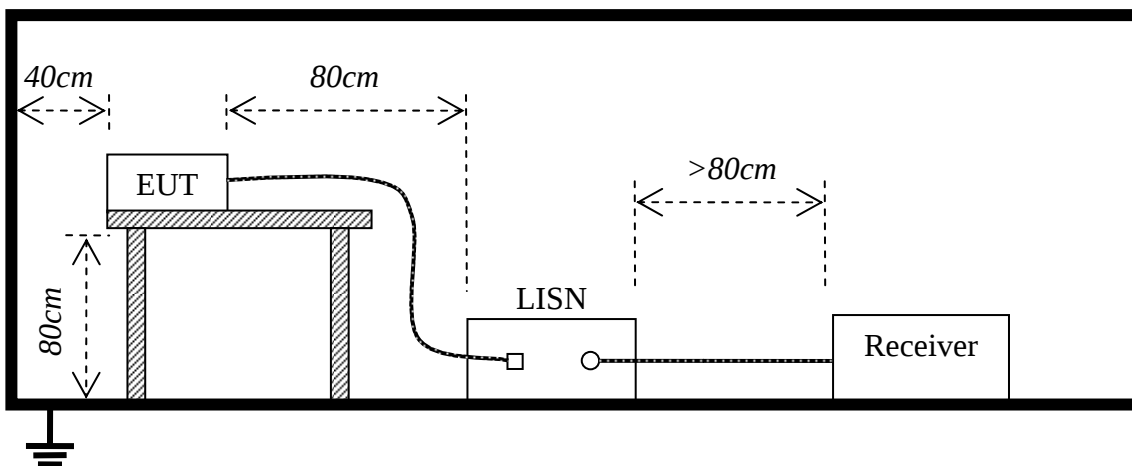
A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the and 150 kHz-30 MHz, shall not exceed the limits in the following table:

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 band edges.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.2 Block Diagram of Test Setup



5.3.3 Test procedure

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. Exploratory measurements were made to identify the frequency of the emission that has the highest amplitude relative to the limit;
3. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
4. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.
5. The bandwidth of test receiver (ESCI) set at 9 KHz.
6. All data was recorded in the Quasi-peak and average detection mode.

5.3.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages.



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
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Conducted Emission Measurement

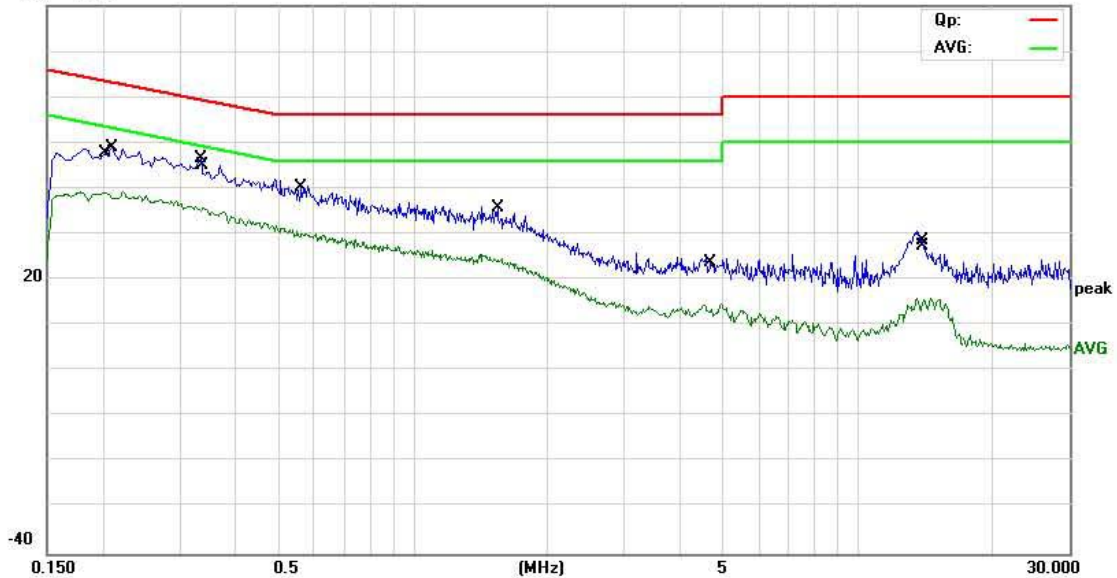
File: ZV-600

Data: #1

Date: 2015-7-22

Time: 11:21:54

80.0 dBuV



Site: MOST #1

Phase: N

Temperature: 23.4

Limit: FCC Part15 B Class B QP

Power: DC 5V by Adapter

Humidity: 52.7 %

EUT: Bluetooth headset

M/N: ZV-600

Mode: GFSK mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2040	27.06	11.97	39.03	53.45	-14.42	AVG	
2		0.2100	37.15	11.93	49.08	63.21	-14.13	QP	
3	*	0.3340	35.49	11.11	46.60	59.35	-12.75	QP	
4		0.3380	24.74	11.08	35.82	49.25	-13.43	AVG	
5		0.5620	30.26	10.00	40.26	56.00	-15.74	QP	
6		0.5660	20.16	10.00	30.16	46.00	-15.84	AVG	
7		1.5220	15.04	9.48	24.52	46.00	-21.48	AVG	
8		1.5460	26.38	9.45	35.83	56.00	-20.17	QP	
9		4.6740	12.17	11.67	23.84	56.00	-32.16	QP	
10		4.7060	1.94	11.71	13.65	46.00	-32.35	AVG	
11		13.9780	19.41	9.00	28.41	60.00	-31.59	QP	
12		14.1100	6.79	9.00	15.79	50.00	-34.21	AVG	

*:Maximum data x:Over limit l:over margin

Engineer Signature: Lidegan



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Conducted Emission Measurement

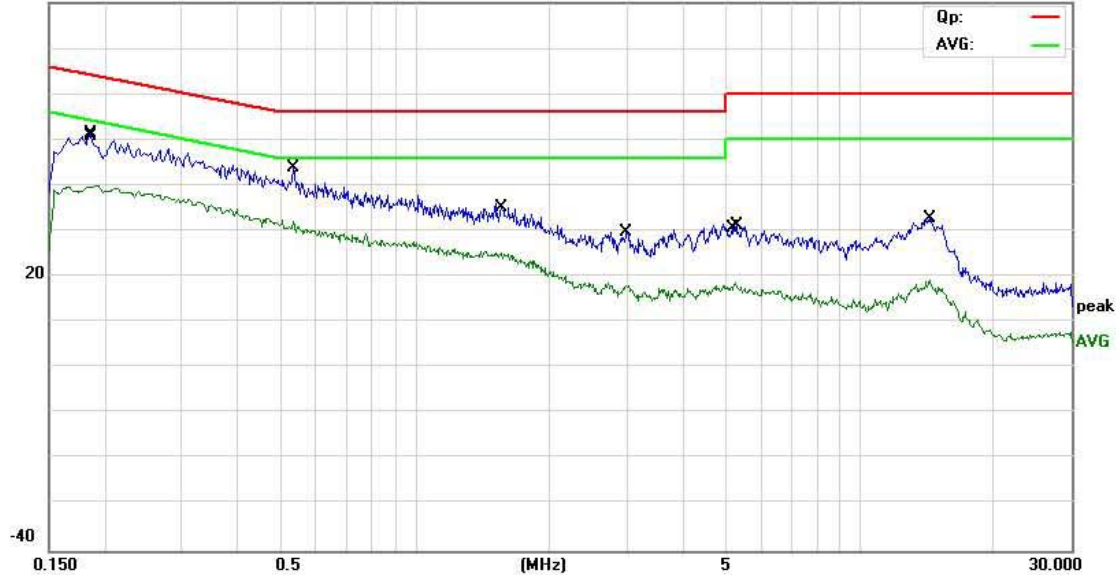
File: ZV-600

Data: #2

Date: 2015-7-22

Time: 11:27:01

80.0 dBuV



Site: MOST #1

Phase: L1

Temperature: 23.4

Limit: FCC Part15 B Class B QP

Power: DC 5V by Adapter

Humidity: 52.7 %

EUT: Bluetooth headset

M/N: ZV-600

Mode: GFSK mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1860	40.16	11.16	51.32	64.21	-12.89	QP	
2		0.1884	28.46	11.30	39.76	54.11	-14.35	AVG	
3	*	0.5340	33.82	10.00	43.82	56.00	-12.18	QP	
4		0.5340	22.01	10.00	32.01	46.00	-13.99	AVG	
5		1.5660	25.79	9.43	35.22	56.00	-20.78	QP	
6		1.5660	15.69	9.43	25.12	46.00	-20.88	AVG	
7		2.9780	8.07	9.98	18.05	46.00	-27.95	AVG	
8		3.0020	19.77	10.00	29.77	56.00	-26.23	QP	
9		5.1860	18.77	11.89	30.66	60.00	-29.34	QP	
10		5.2460	6.42	11.85	18.27	50.00	-31.73	AVG	
11		14.3060	23.79	9.00	32.79	60.00	-27.21	QP	
12		14.3060	10.15	9.00	19.15	50.00	-30.85	AVG	

*:Maximum data x:Over limit l:over margin

Engineer Signature: Lidegan

5.4 Radiated Emission

5.4.1 Requirement

According to FCC section 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3-meter)	Test Distance (m)	Field Strength ($\text{dB}\mu\text{V/m}$ at 3-meter)
0.009 - 0.490	$2400/F(\text{kHz})$	300	
0.490 - 1.705	$24000/F(\text{kHz})$	30	
1.705-30	30	30	
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Note:

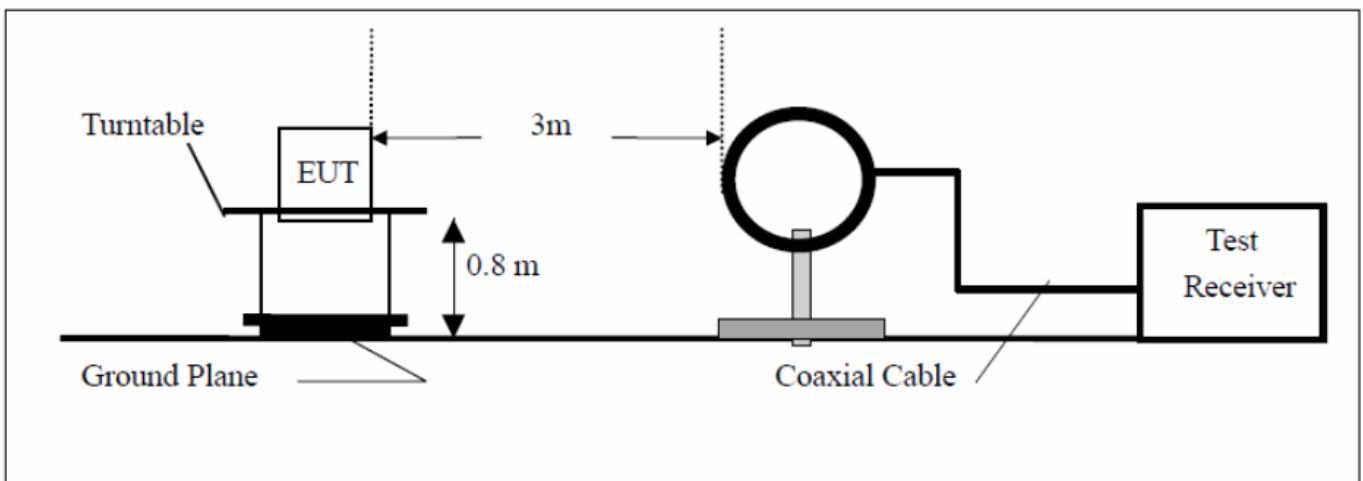
1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

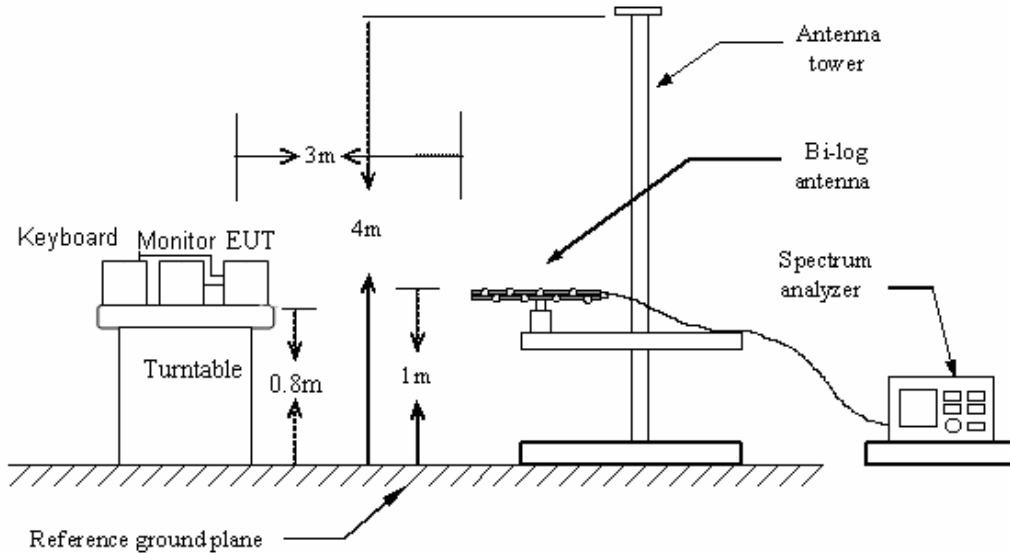
5.4.2 Test Configuration

Test Setup:

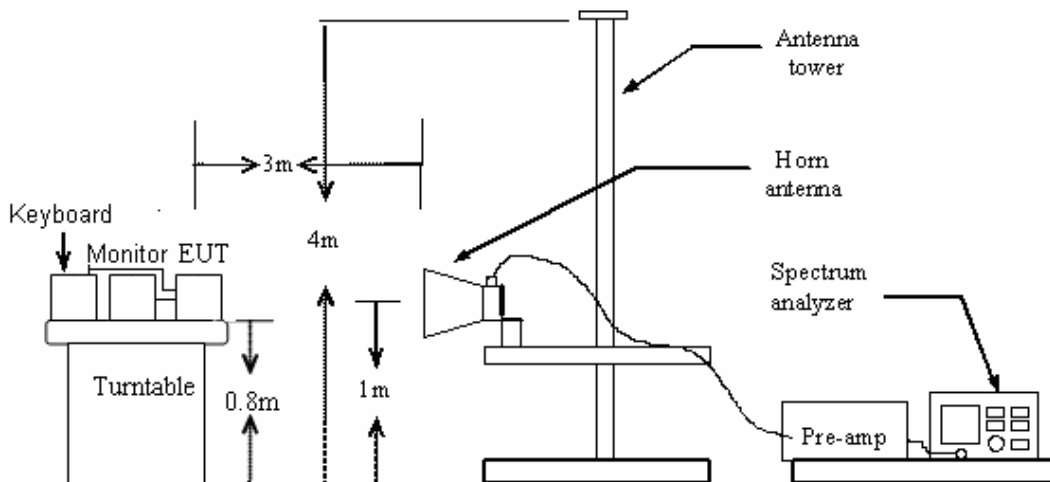
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz

**5.4.3 Test Procedure:**

1. For frequencies above 1GHz, the frequencies of maximum emission was recorded by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display.
2. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
3. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
4. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotate table was turned from 0 degrees to 360 degrees to find the maximum reading.

6. For frequencies above 1GHz, horn antenna mouth should face to the EUT all the time when rise or fall.

7. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO

Above 1GHz: (a)PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b)AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

8. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

5.4.4 Test Result

Pass

Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Please refer the following pages.

Below 1GHz



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
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Radiated Emission Measurement

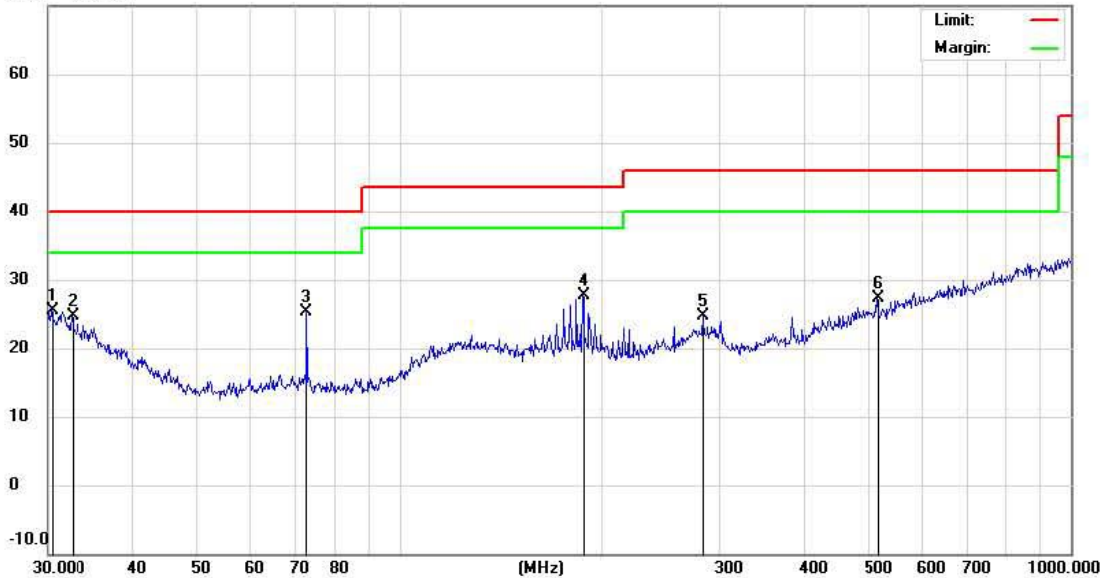
File: ZV-600

Data: #1

Date: 2015-7-16

Time: 16:12:32

70.0 dBuV/m



Site: Chamber #1

Polarization: **Horizontal**

Temperature: 24.2

Limit: FCC Part15 B 3M Radiation

Power: DC 3.7V by battery

Humidity: 51.3 %

EUT: Bluetooth headset

Distance: 3m

M/N: ZV-600

Mode: GFSK mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	30.3173	3.57	21.88	25.45	40.00	-14.55	QP		
2		32.5198	4.25	20.39	24.64	40.00	-15.36	QP		
3		72.8466	13.71	11.61	25.32	40.00	-14.68	QP		
4		187.7530	11.11	16.62	27.73	43.50	-15.77	QP		
5		282.9852	5.26	19.40	24.66	46.00	-21.34	QP		
6		515.4374	5.57	21.66	27.23	46.00	-18.77	QP		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Lidegan



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Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

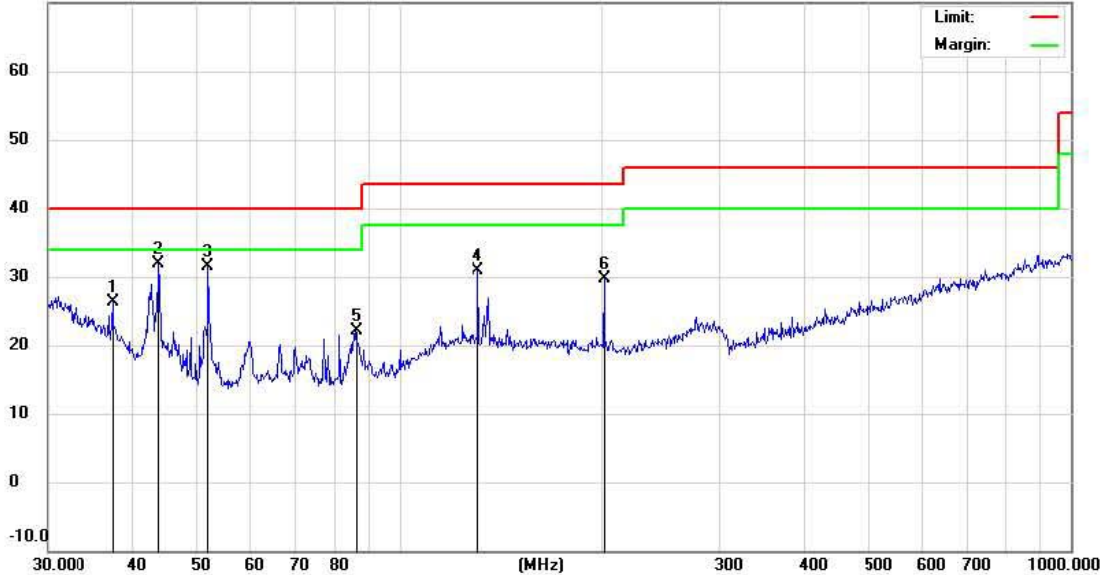
File: ZV-600

Data: #2

Date: 2015-7-16

Time: 16:25:12

70.0 dBuV/m



Site: Chamber #1

Polarization: **Vertical**

Temperature: 24.2

Limit: FCC Part15 B 3M Radiation

Power: DC 3.7V by battery

Humidity: 51.3 %

EUT: Bluetooth headset

Distance: 3m

M/N: ZV-600

Mode: GFSK mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		37.5479	8.61	17.76	26.37	40.00	-13.63	QP		
2	*	43.9658	18.14	13.74	31.88	40.00	-8.12	QP		
3		52.0251	21.17	10.40	31.57	40.00	-8.43	QP		
4		131.2965	13.34	17.63	30.97	43.50	-12.53	QP		
5		86.2001	10.73	11.40	22.13	40.00	-17.87	QP		
6		202.1005	12.71	17.08	29.79	43.50	-13.71	QP		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

Lidegan

Above 1GHz



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #1

Date: 2015-7-15

Time: 17:02:54

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH0

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	X	2402.000	97.67	-8.43	89.24	74.00	15.24	peak		
2	*	2402.000	87.39	-8.43	78.96	54.00	24.96	AVG		
3		4804.000	53.02	-6.15	46.87	74.00	-27.13	peak		
4		4804.000	42.10	-6.15	35.95	54.00	-18.05	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

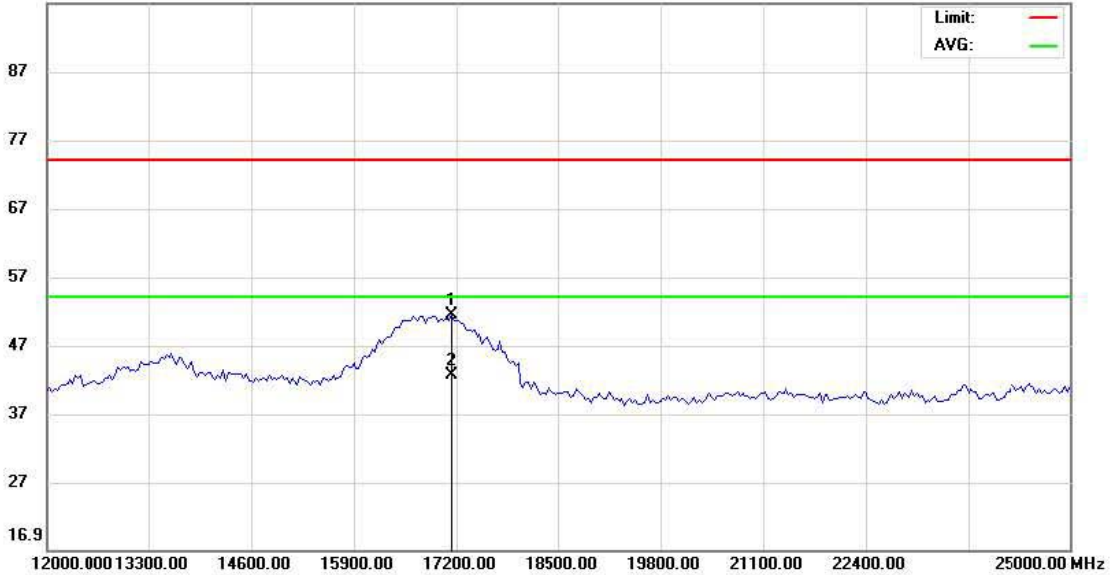
File: ZV-600

Data: #3

Date: 2015-7-15

Time: 17:21:51

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		17135.00	45.25	6.19	51.44	74.00	-22.56	peak		
2	*	17135.00	36.44	6.19	42.63	54.00	-11.37	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #2

Date: 2015-7-15

Time: 17:08:12

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2402.000	97.41	-8.43	88.98	74.00	14.98	peak		
2	*	2402.000	86.99	-8.43	78.56	54.00	24.56	AVG		
3		4804.000	54.10	-6.15	47.95	74.00	-26.05	peak		
4		4804.000	45.79	-6.15	39.64	54.00	-14.36	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: lidegan



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

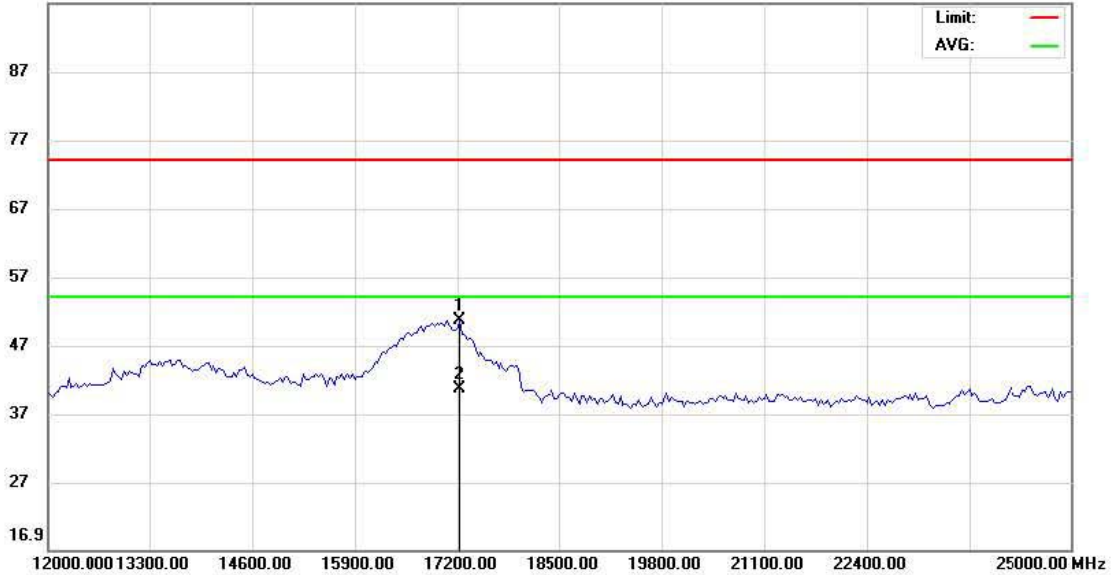
File: ZV-600

Data: #4

Date: 2015-7-15

Time: 17:30:33

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		17232.50	44.92	5.66	50.58	74.00	-23.42	peak		
2	*	17232.50	34.97	5.66	40.63	54.00	-13.37	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
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Radiated Emission Measurement

File: ZV-600

Data: #7

Date: 2015-7-15

Time: 17:56:15

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH19

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2440.000	98.47	-8.36	90.11	74.00	16.11	peak		
2	*	2440.000	89.54	-8.36	81.18	54.00	27.18	AVG		
3		4880.000	54.07	-5.21	48.86	74.00	-25.14	peak		
4		4880.000	46.28	-5.21	41.07	54.00	-12.93	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: lidegan



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #5

Date: 2015-7-15

Time: 17:36:58

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH19

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		17005.00	41.29	6.90	48.19	74.00	-25.81	peak		
2	*	17005.00	34.00	6.90	40.90	54.00	-13.10	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #8

Date: 2015-7-15

Time: 18:08:47

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH19

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2440.000	98.03	-8.36	89.67	74.00	15.67	peak		
2	*	2440.000	88.27	-8.36	79.91	54.00	25.91	AVG		
3		4880.000	54.66	-5.21	49.45	74.00	-24.55	peak		
4		4880.000	45.21	-5.21	40.00	54.00	-14.00	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #6

Date: 2015-7-15

Time: 17:45:00

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH19

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		16972.50	42.67	6.84	49.51	74.00	-24.49	peak		
2	*	16972.50	33.11	6.84	39.95	54.00	-14.05	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #9

Date: 2015-7-15

Time: 18:22:18

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2480.000	98.05	-8.30	89.75	74.00	15.75	peak		
2	*	2480.000	91.59	-8.30	83.29	54.00	29.29	AVG		
3		4960.000	50.29	-4.27	46.02	74.00	-27.98	peak		
4		4960.000	43.95	-4.27	39.68	54.00	-14.32	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #11

Date: 2015-7-15

Time: 18:45:37

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		16452.50	42.92	5.01	47.93	74.00	-26.07	peak		
2	*	16452.50	36.25	5.01	41.26	54.00	-12.74	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: lidegan



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #10

Date: 2015-7-15

Time: 18:33:09

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2480.000	97.14	-8.30	88.84	74.00	14.84	peak		
2	*	2480.000	90.06	-8.30	81.76	54.00	27.76	AVG		
3		4960.000	53.48	-4.27	49.21	74.00	-24.79	peak		
4		4960.000	45.87	-4.27	41.60	54.00	-12.40	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: lidegan



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600 Data: #12 Date: 2015-7-15 Time: 18:52:20
96.9 dBuV/m



Site site #1 Polarization: **Vertical** Temperature: 24.9
Limit: FCC 12-25G PEAK Power: DC 3.7V by Battery Humidity: 51.7 %
EUT: Bluetooth Headset Distance: 3m
M/N: ZV-600
Mode: GFSK-CH39
Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16907.50	43.86	6.62	50.48	74.00	-23.52	peak		
2	*	16907.50	37.48	6.62	44.10	54.00	-9.90	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: lidegan

5.5 Conducted Peak Output Power

5.5.1 Requirement

According to FCC section 15.247(b)(3), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725– 5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

5.5.2 Block Diagram of Test Setup



5.5.3 Test Procedure

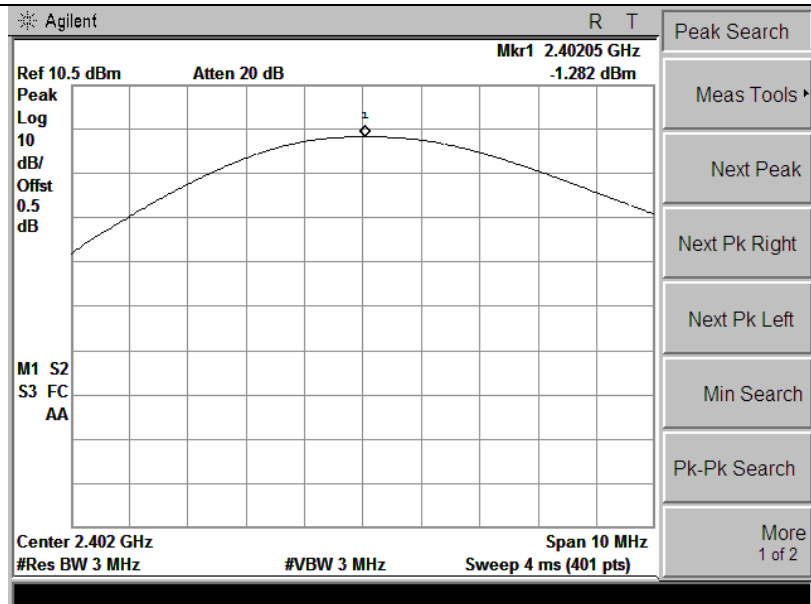
1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
3. Add a correction factor to the display.

5.5.4 Test Result

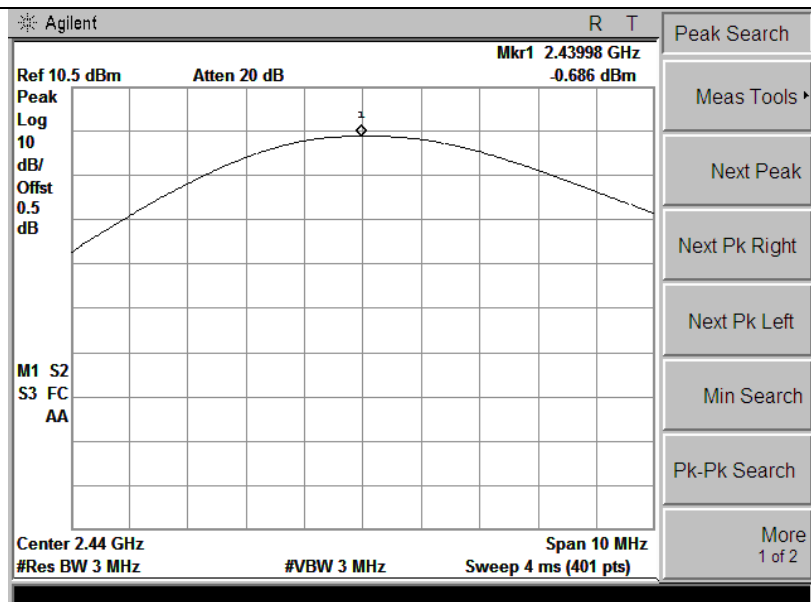
Test Item:	Peak Output Power	Temperature :	21°C
Test Engineer:	Kang	Relative Humidity :	57%

Mode	Channel	Frequency (MHz)	Peak Output Power(dBm)	Limit		Pass/Fail
				(mW)	(dBm)	
GFSK	Low	2402	-1.282	1000	30	Pass
	Middle	2440	-0.686	1000	30	Pass
	High	2480	-0.072	1000	30	Pass

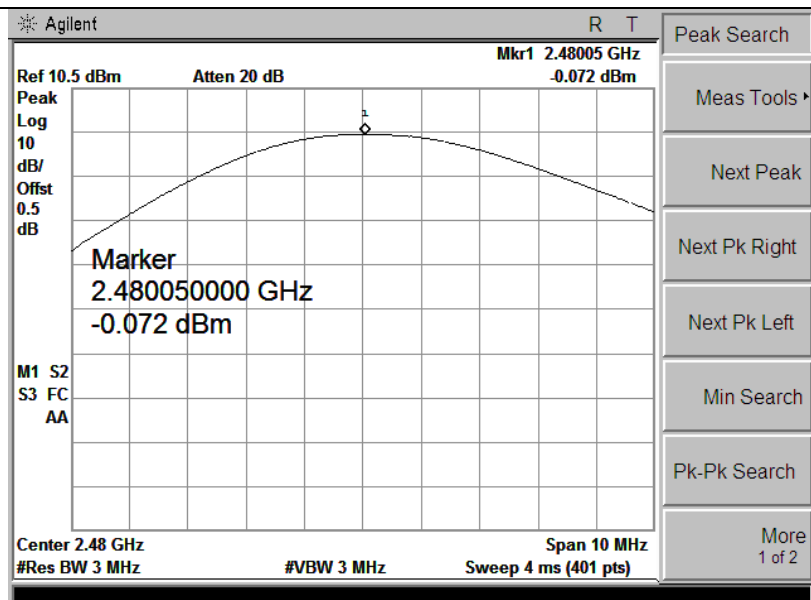
GFSK Mode



Ch 0



Ch 19



Ch 39

5.6 6dB Emission Bandwidth

5.6.1 Test Requirement

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.6.2 Block Diagram of Test Setup



5.6.3 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02 clause 8.1 Option 1:

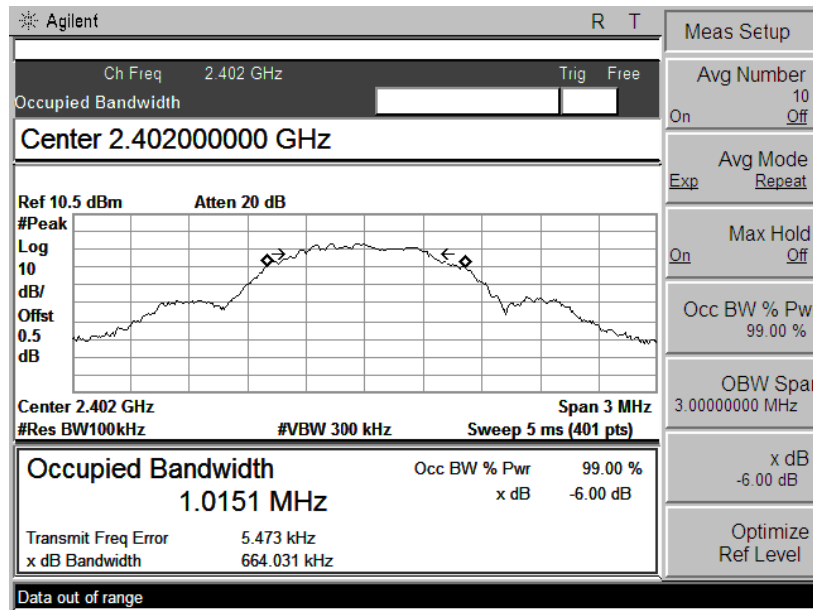
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6.4 Test Result

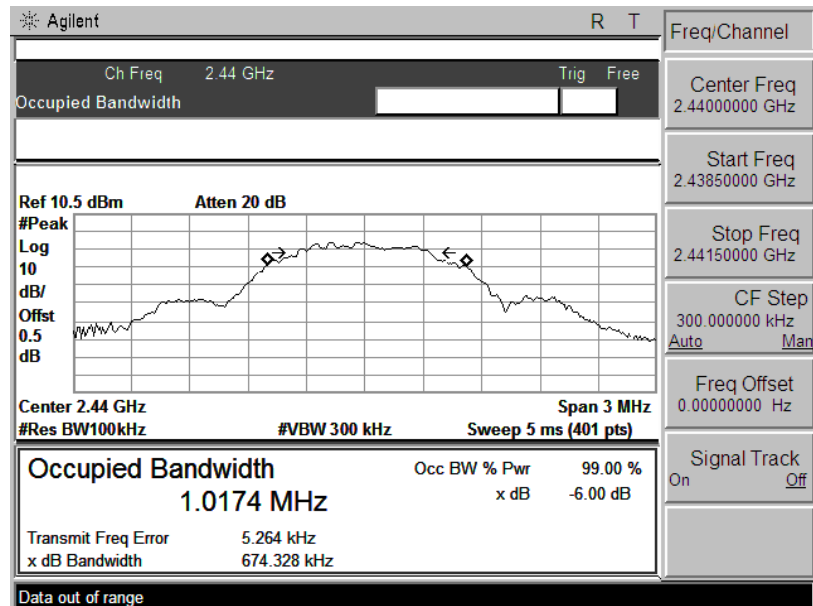
Test Item:	6dB Emission Bandwidth	Temperature :	21°C
Test Engineer:	Kang	Relative Humidity :	57%

Mode	Channel	Frequency (MHz)	6dB Bandwidth(KHz)	Limit(KHz)
GFSK	Low	2402	664.031	≥ 500
	Middle	2440	674.328	≥ 500
	High	2480	673.667	≥ 500

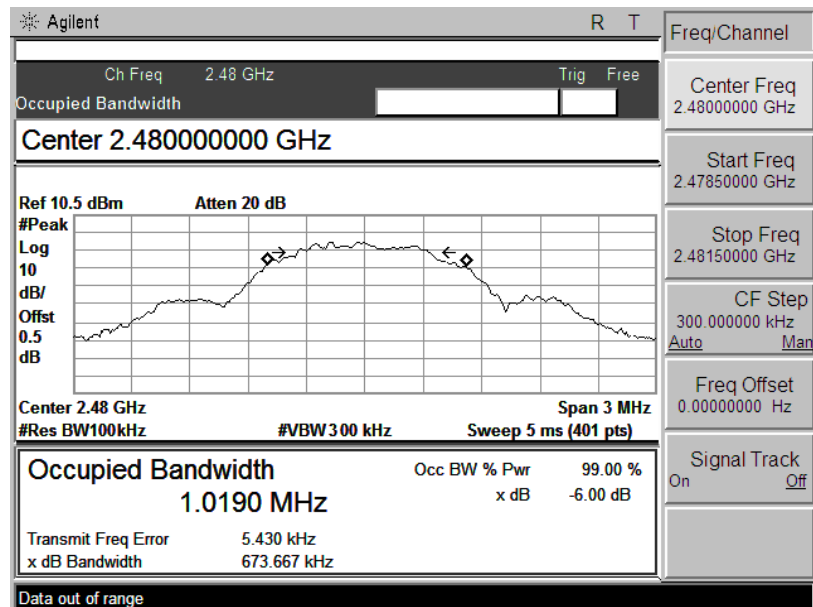
GFSK Mode



Ch 0



Ch 19



Ch 39

5.7 POWER SPECTRAL DENSITY

5.7.1 Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

5.7.2 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01clause10.2:

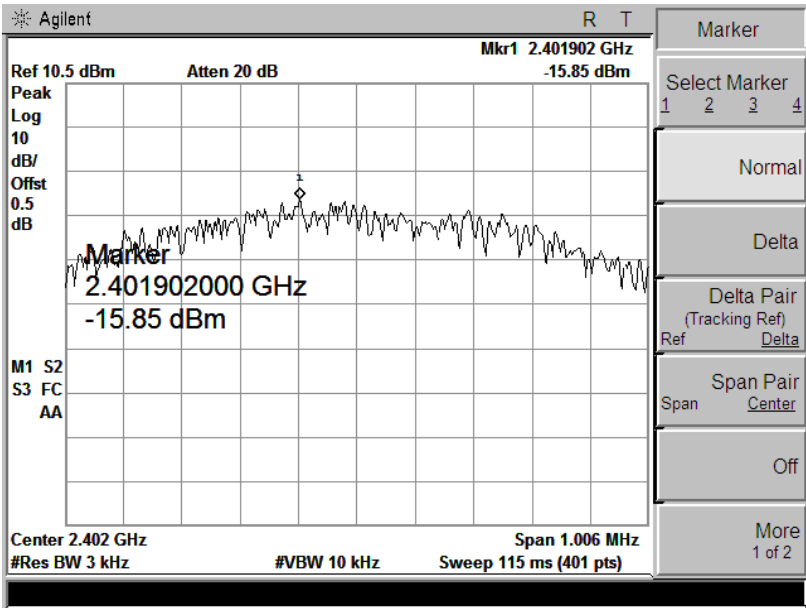
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.7.3 Test Result

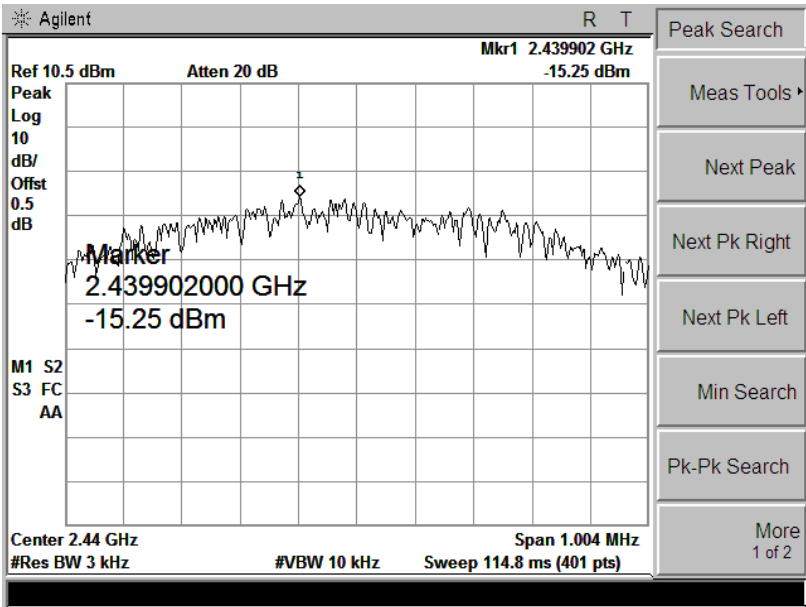
Test Item:	POWER SPECTRAL DENSITY	Temperature :	21°C
Test Engineer:	Kang	Relative Humidity :	57%

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK	Low	2402	-15.85	≤ 8	Pass
	Middle	2440	-15.25	≤ 8	Pass
	High	2480	-14.69	≤ 8	Pass

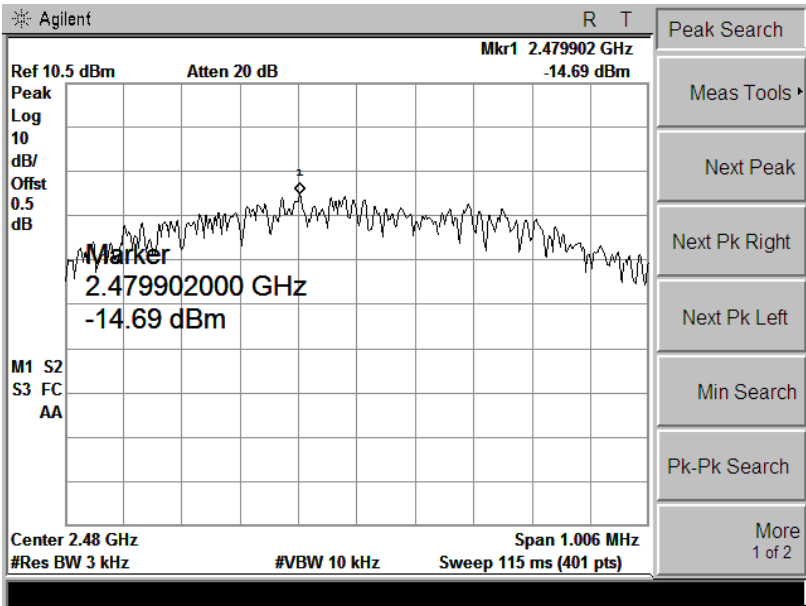
GFSK Mode



Ch 0



Ch 19



Ch 39

5.8 Band Edge and Conducted Spurious Emissions

5.8.1 Test Requirement

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

5.8.2 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

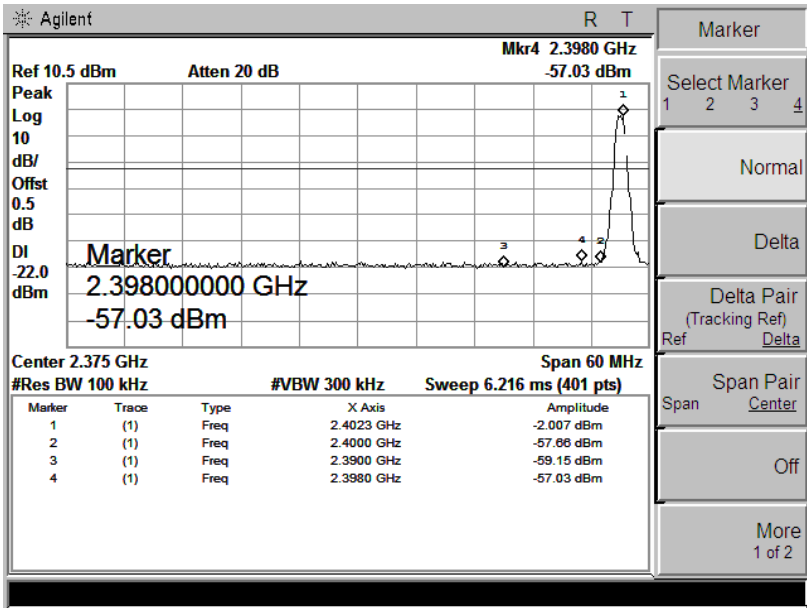
5.8.3 Test Result

Pass

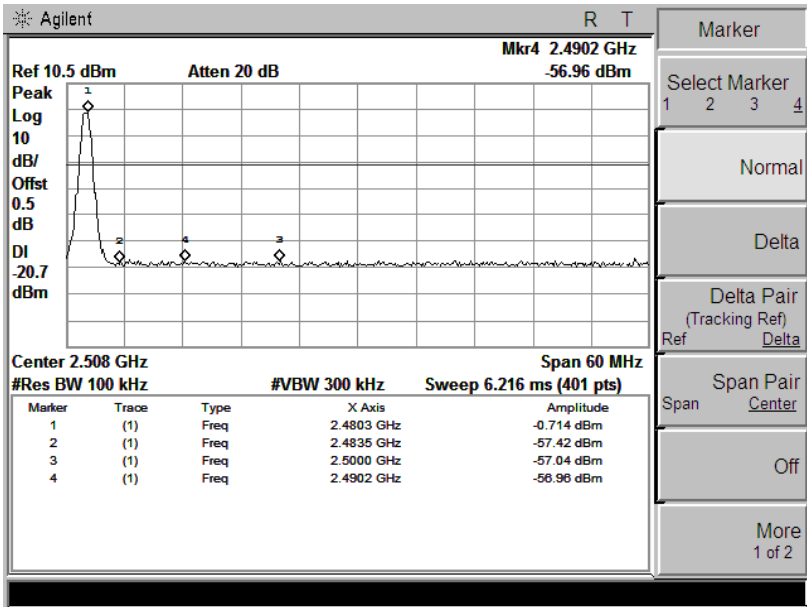
Remark:

Test Item:	Band Edge	Temperature :	21°C
Test Engineer:	Kang	Relative Humidity :	57%

GFSK Mode

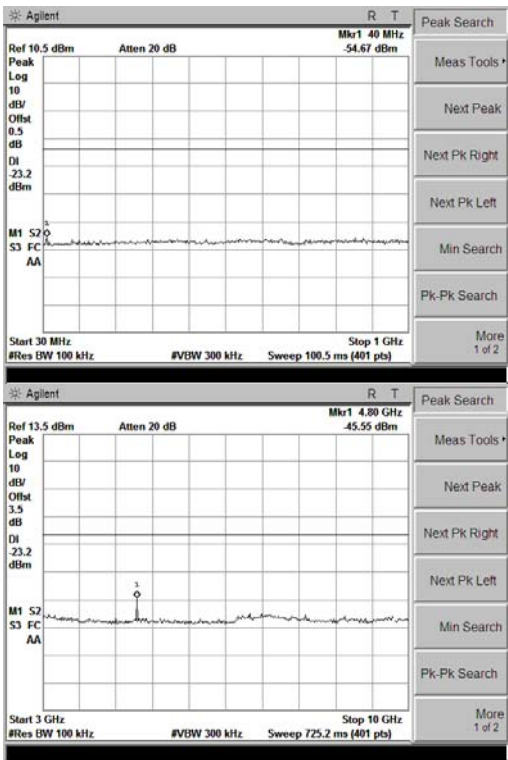


Band Edge, Left Side

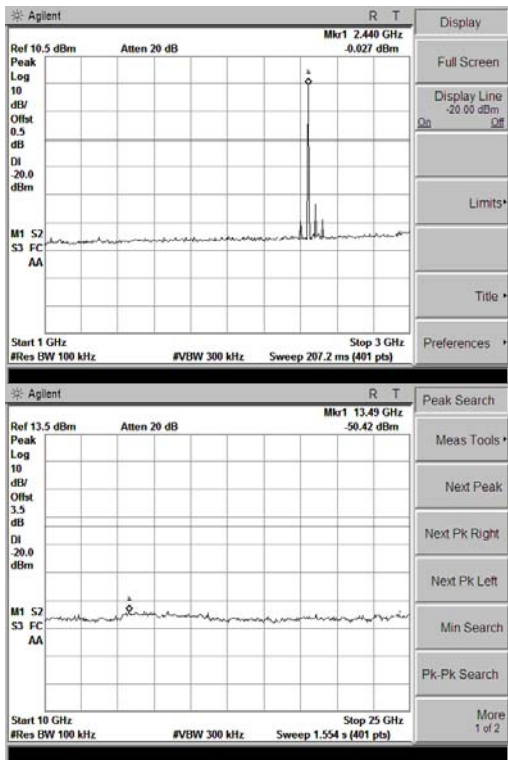
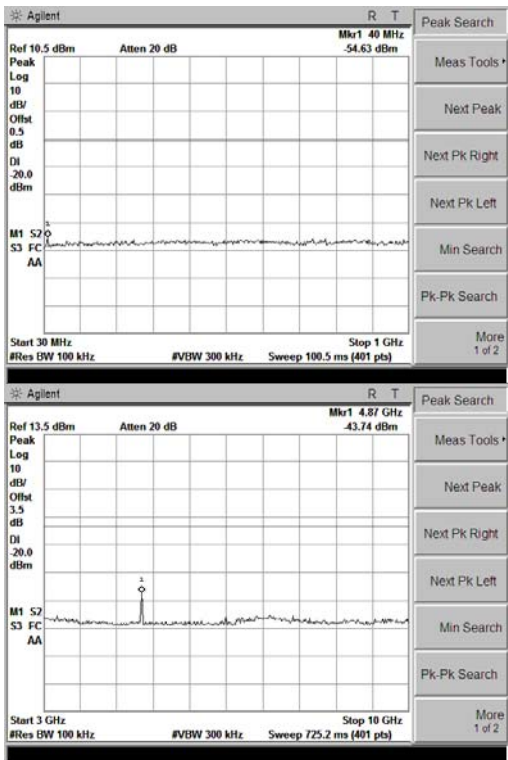
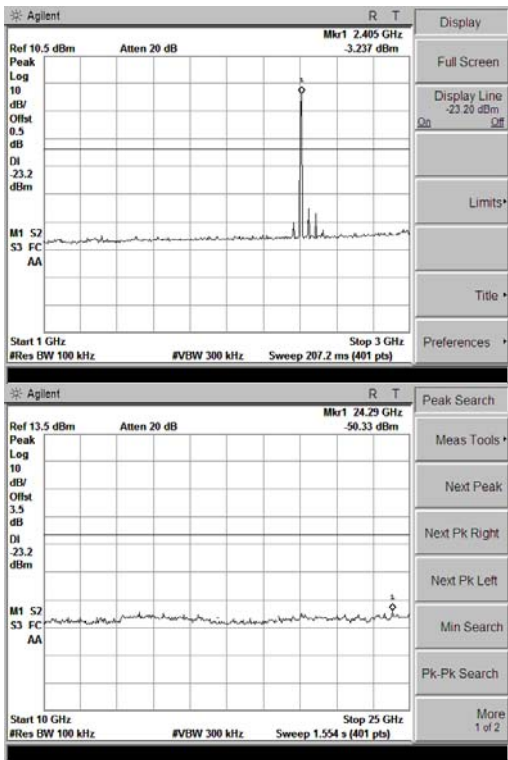


Band Edge, Right Side

Conducted Spurious Emissions

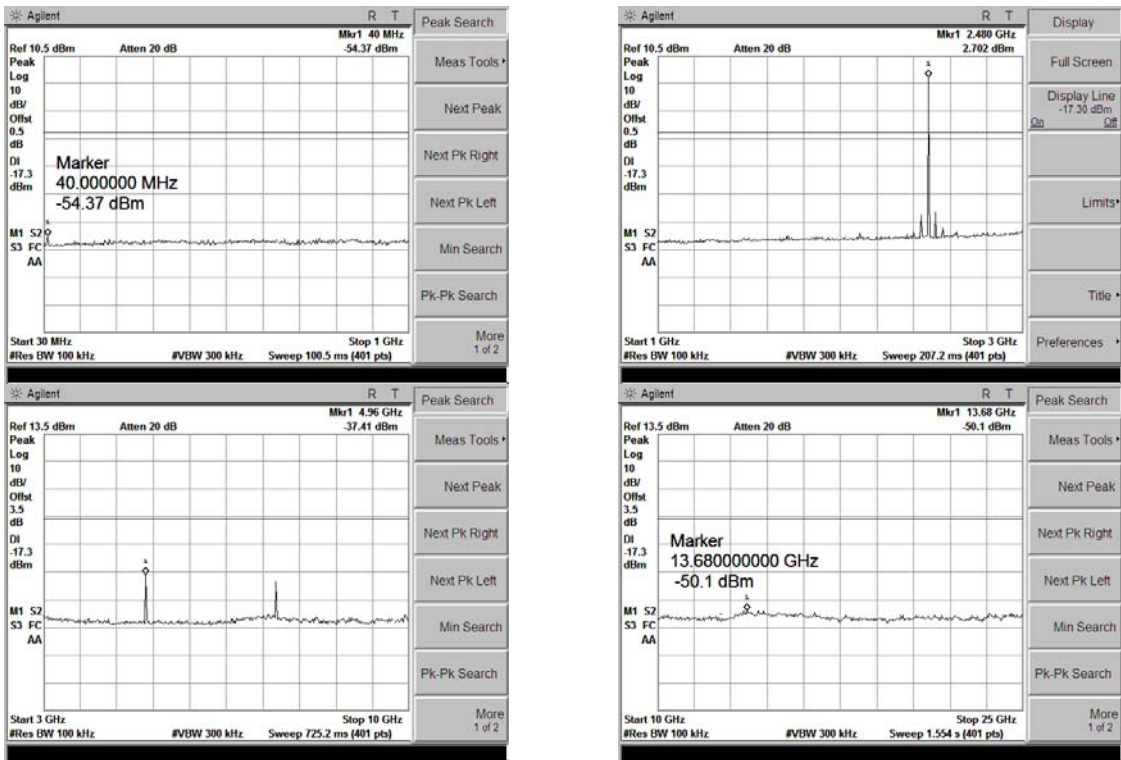


GFSK Mode, Ch0



GFSK Mode, Ch19

Conducted Spurious Emissions



GFSK Mode, Ch39

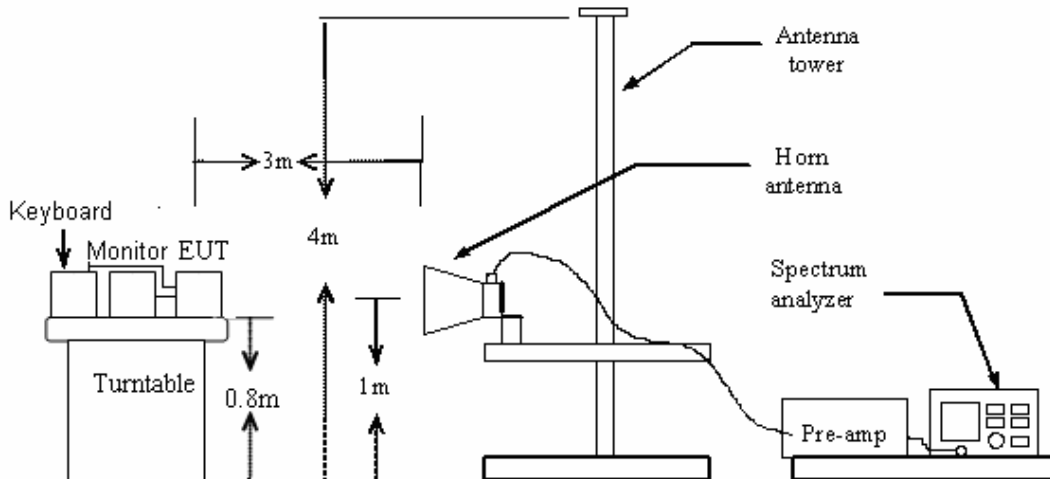
5.9 Restricted Frequency Bands

5.9.1 Test Requirement

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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.9.2 Test Configuration

Test Setup:



5.9.3 Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

5.9.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following plots.



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #13

Date: 2015-7-15

Time: 18:59:11

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.5

Limit: FCC RF LIMIT PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	45.81	-8.43	37.38	74.00	-36.62	peak		
2	*	2390.000	36.48	-8.43	28.05	54.00	-25.95	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Jonh



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #14

Date: 2015-7-15

Time: 19:07:05

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.5

Limit: FCC RF LIMIT PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	44.97	-8.43	36.54	74.00	-37.46	peak		
2	*	2390.000	35.22	-8.43	26.79	54.00	-27.21	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Jonh



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: ZV-600

Data: #15

Date: 2015-7-15

Time: 19:19:26

96.9 dBuV/m



Site: site #1

Polarization: **Horizontal**

Temperature: 24.5

Limit: FCC RF LIMIT PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	58.79	-8.29	50.50	74.00	-23.50	peak		
2	*	2483.500	46.49	-8.29	38.20	54.00	-15.80	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Jonh



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

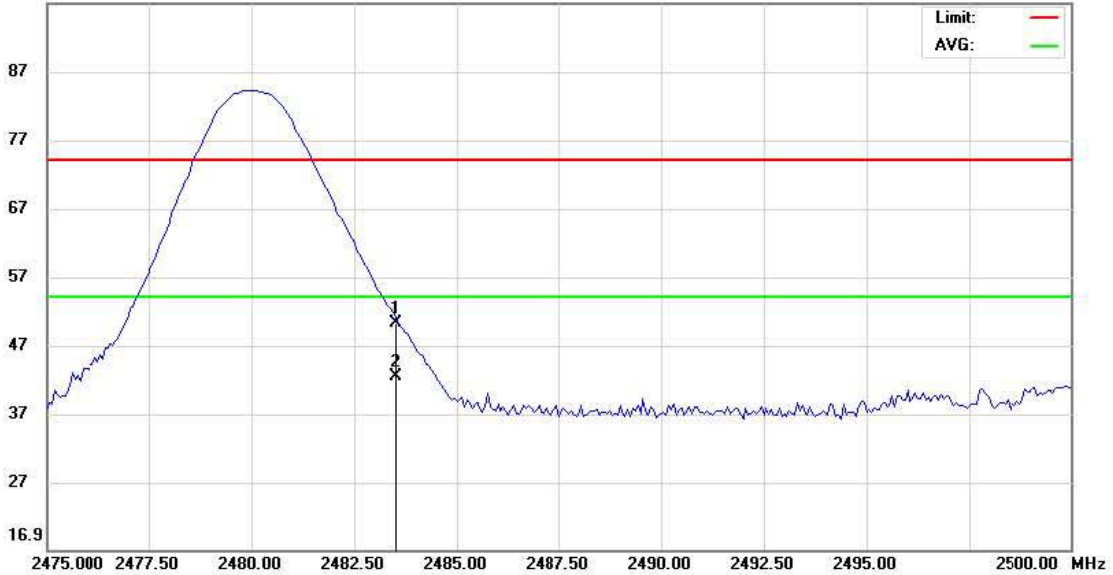
File: ZV-600

Data: #16

Date: 2015-7-15

Time: 19:30:49

96.9 dBuV/m



Site: site #1

Polarization: **Vertical**

Temperature: 24.5

Limit: FCC RF LIMIT PEAK

Power: DC 3.7V by Battery

Humidity: 51.7 %

EUT: Bluetooth Headset

Distance: 3m

M/N: ZV-600

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	58.47	-8.29	50.18	74.00	-23.82	peak		
2	*	2483.500	50.79	-8.29	42.50	54.00	-11.50	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: Jonh

End of Report