



# **TEST REPORT**

Applicant:	NKOK, Inc.				
Address:	5354 Irwindale Ave Unit A Irwindale California United States 91706				
Manufacturer or Supplier NKOK, Inc.					
Address	5354 Irwindale Ave Unit A Irw	indale California United States 91706			
Product:	R/C Megazord				
Brand Name:	N/A				
Model:	6711				
Additional Model & Model Difference	N/A				
Date of tests:	Sep. 25, 2017 ~ Oct. 10, 2017				
the tests have been	carried out according to the req	uirements of the following standard:			
	ubpart C, Section 15.249				
CONCLUSION: The	e submitted sample was found	d to COMPLY with the test requirement			
	l by Breeze Jiang neer / EMC Department	Approved by Glyn He Supervisor / EMC Department			

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

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Date: Nov. 14, 2017



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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
RF170925N019	Original release	Nov. 14, 2017	

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# **SUMMARY OF TEST RESULTS**

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)						
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK			
§15.203	Antenna Requirement	PASS	No antenna connector is used			
§15.207 (a)	Conducted Emission	N/A	Powered from battery			
§15.205	Restricted Band of Operation	PASS	Compliant			
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant			
§15.215(c)	20dB Bandwidth Test	PASS	Compliant			

# **MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY	
	9KHz ~ 30MHz	2.90dB	
Radiated emissions	30MHz ~ 1GMHz	3.83dB	
Nadiated emissions	1GHz ~ 18GHz	4.93dB	
	18GHz ~ 40GHz	4.80dB	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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# **GENERAL INFORMATION**

# **GENERAL DESCRIPTION OF EUT**

PRODUCT	R/C Megazord
MODEL NO.	6711
ADDITIONAL MODEL	N/A
FCC ID	XQPNS081724TX
NOMINAL VOLTAGE	DC 3V (1.5V*AAA*2) from Battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2405-2475MHz
ANTENNA TYPE	PCB Antenna, with 0dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 170925N019) for detailed product photo.

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# 3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on X axis for radiated emission(below 1GHz) and positioned on Y axis for radiated emission(above 1GHz). The EUT was tested under the following mode.

EUT CONFIGURE	APPLICABLE TO				DESCRIPTION
MODE	RE<1G	RE≥1G	PLC	BW	DESCRIPTION
Α	√	<b>√</b>	-	<b>V</b>	DC 3V from New Battery

Where

RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission BW: 20dB bandwidth

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

Following channel(s) was (were) selected for the test as listed below.

TESTED CHANNEL	TESTED FREQUENCY
Low	2405 MHz
Middle	2433 MHz
High	2475 MHz

Note: The more detailed channel, please refer to the product specifications

# **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY	
RE	23deg. C, 53%RH	DC 3V from New Battery	Xue Wang	
BW	23deg. C, 53%RH	DC 3V from New Battery	Xue Wang	
PLC	-	-	-	



# 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.249 ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

# 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units

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# 4. TEST TYPES AND RESULTS

#### 4.1 RADIATED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)	
902-928 MHz	50	500	
2400-2483.5 MHz	50	500	
5725-5875 MHz	50	500	
24.0-24.25 GHz	250	2500	

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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# 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz		100449	Mar. 12,17	Mar. 11,18
Signal and Spectrum Analyzer	Rohde&Schwar z	FSV7	102331	Nov. 04,16	Nov. 03,17
Bilog Antenna (30MHz~1GHz)	Teseq	CBL 6111D	30643	Jul. 14, 17	Jul. 13, 18
Loop antenna (9KHz ~30MHz)	Daze	ZN30900A	0708	Mar. 12,17	Mar. 11,18
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 18,17	May 17,18
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Aug. 08, 17	Aug. 07, 18
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	NSEMC003	Mar. 12,17	Mar. 11,18
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna (18GHz-40GHz)	SCHWARZBEC K	BBHA 9170	BBHA9170242	Mar. 15,17	Mar. 14,18
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,17	Mar. 03, 18
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBEC K	BBV9718	305	Mar. 09,17	Mar. 08,18
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03,17
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

# NOTE:

- 1. The test was performed in 966 Chamber.
- 2. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested.
- 4. The FCC Site Registration No. is 749762.

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#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.
- 5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

#### 4.1.4 DEVIATION FROM TEST STANDARD

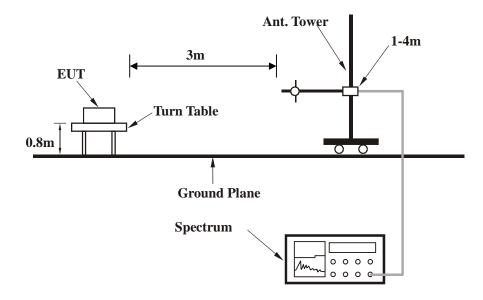
No deviation.

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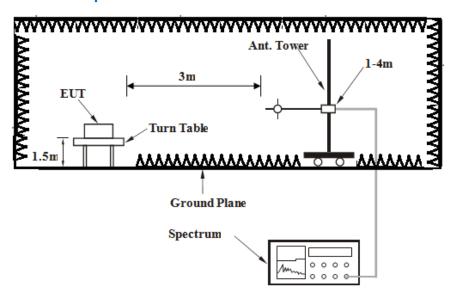
# 4.1.5 TEST SETUP

#### **Below 1GHz test setup**



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

# **Above 1GHz test setup**



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT OPERATING CONDITIONS

- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

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# 4.1.7 TEST RESULTS

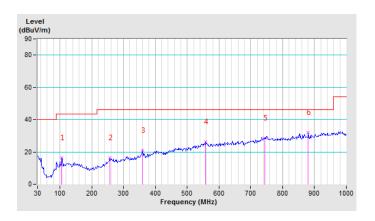
#### **BELOW 1GHz WORST-CASE DATA**

CHANNEL	TX Middle Channel	DETECTOR	Ougsi Poek (OD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	106.17	16.54 QP	43.50	-26.96	1.00 H	43	34.80	-18.26		
2	256.96	16.45 QP	46.00	-29.55	1.00 H	15	29.79	-13.34		
3	359.55	20.89 QP	46.00	-25.11	1.00 H	309	31.25	-10.36		
4	558.53	26.42 QP	46.00	-19.58	1.00 H	28	29.97	-3.55		
5	743.51	28.50 QP	46.00	-17.50	1.00 H	315	28.48	0.02		
6	880.30	32.00 QP	46.00	-14.00	1.00 H	301	31.14	0.86		

# **REMARKS:**

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



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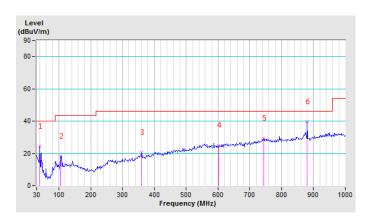


CHANNEL	TX Middle Channel	DETECTOR	Ougoi Pook (OP)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	39.33	24.42 QP	40.00	-15.58	1.00 V	254	40.51	-16.09		
2	106.17	18.35 QP	43.50	-25.15	1.00 V	65	36.61	-18.26		
3	359.55	20.44 QP	46.00	-25.56	1.00 V	119	30.80	-10.36		
4	602.05	24.95 QP	46.00	-21.05	1.00 V	326	28.85	-3.90		
5	743.51	29.49 QP	46.00	-16.51	1.00 V	184	29.47	0.02		
6	880.30	39.55 QP	46.00	-6.45	1.00 V	22	38.69	0.86		

# **REMARKS:**

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



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# **ABOVE 1GHz WORST-CASE DATA:**

CHANNEL	TX Low Channel	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY &	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2400.00	51.12 PK	74.00	-22.88	1.50 H	180	48.03	3.09
2	2400.00	39.02 AV	54.00	-14.98	1.50 H	180	35.93	3.09
3	*2405.00	69.79 PK	114.00	-44.21	1.50 H	180	66.69	3.10
4	*2405.00	57.69 AV	94.00	-36.31	1.50 H	180	54.59	3.10
5	4810.00	54.96 PK	74.00	-19.04	1.50 H	169	49.02	5.94
6	4810.00	42.86 AV	54.00	-11.14	1.50 H	169	36.92	5.94
7	7215.00	59.17 PK	74.00	-14.83	1.50 H	288	46.95	12.22
8	7215.00	47.07 AV	54.00	-6.93	1.50 H	288	34.85	12.22
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2400.00	57.41 PK	74.00	-16.59	1.50 V	225	54.32	3.09
2	2400.00	45.31 AV	54.00	-8.69	1.50 V	225	42.22	3.09
3	*2405.00	71.53 PK	114.00	-42.47	1.50 V	225	68.43	3.10
4	*2405.00	59.43 AV	94.00	-34.57	1.50 V	225	56.33	3.10
5	4810.00	52.67 PK	74.00	-21.33	1.50 V	170	46.73	5.94
6	4810.00	40.57 AV	54.00	-13.43	1.50 V	170	34.63	5.94
7	7215.00	56.39 PK	74.00	-17.61	1.50 V	99	44.17	12.22
8	7215.00	44.29 AV	54.00	-9.71	1.50 V	99	32.07	12.22

#### **REMARKS:**

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " \* ": Fundamental frequency.

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CHANNEL	TX Middle Channel	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2433.00	72.93 PK	114.00	-41.07	1.00 H	194	69.73	3.20
2	*2433.00	60.83 AV	94.00	-33.17	1.00 H	194	57.63	3.20
3	4866.00	49.62 PK	74.00	-24.38	1.00 H	143	43.58	6.04
4	4866.00	37.52 AV	54.00	-16.48	1.00 H	143	31.48	6.04
5	7299.00	54.95 PK	74.00	-19.05	1.00 H	162	42.37	12.58
6	7299.00	42.85 AV	54.00	-11.15	1.00 H	162	30.27	12.58
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2433.00	69.11 PK	114.00	-44.89	1.00 V	189	65.91	3.20
2	*2433.00	57.01 AV	94.00	-36.99	1.00 V	189	53.81	3.20
3	4866.00	50.04 PK	74.00	-23.96	1.00 V	167	44.00	6.04
4	4866.00	37.94 AV	54.00	-16.06	1.00 V	167	31.90	6.04
5	7299.00	58.62 PK	74.00	-15.38	1.00 V	191	46.04	12.58
6	7299.00	46.52 AV	54.00	-7.48	1.00 V	191	33.94	12.58

#### **REMARKS:**

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " \* ": Fundamental frequency.

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CHANNEL	TX High Channel	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2475.00	68.66 PK	114.00	-45.34	1.00 H	189	65.34	3.32
2	*2475.00	56.56 AV	94.00	-37.44	1.00 H	189	53.24	3.32
3	2483.50	48.35 PK	74.00	-25.65	1.00 H	189	44.99	3.36
4	2483.50	36.25 AV	54.00	-17.75	1.00 H	189	32.89	3.36
5	4950.00	52.84 PK	74.00	-21.16	1.80 H	210	46.67	6.17
6	4950.00	40.74 AV	54.00	-13.26	1.80 H	210	34.57	6.17
7	7425.00	59.73 PK	74.00	-14.27	1.50 H	177	46.60	13.13
8	7425.00	47.63 AV	54.00	-6.37	1.50 H	177	34.50	13.13
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL	LIMIT	MARGIN	ANTENNA	TABLE ANGLE	RAW VALUE	CORRECTION FACTOR
		(dBuV/m)	(dBuV/m)	(dB)	HEIGHT (m)	(Degree)	(dBuV)	(dB/m)
1	*2475.00	(dBuV/m) 70.92 PK	(dBuV/m) 114.00	(dB) -43.08				
1	*2475.00 *2475.00	, ,	,	` ,	(m)	(Degree)	(dBuV)	(dB/m)
H		70.92 PK	114.00	-43.08	(m) 1.50 V	<b>(Degree)</b> 133	(dBuV) 67.60	(dB/m) 3.32
2	*2475.00	70.92 PK 58.82 AV	114.00 94.00	-43.08 -35.18	(m) 1.50 V 1.50 V	(Degree) 133 133	(dBuV) 67.60 55.50	(dB/m) 3.32 3.32
2	*2475.00 2483.50	70.92 PK 58.82 AV 47.83 PK	114.00 94.00 74.00	-43.08 -35.18 -26.17	(m) 1.50 V 1.50 V 1.00 V	(Degree)  133  133  133	(dBuV) 67.60 55.50 44.47	(dB/m) 3.32 3.32 3.36
3	*2475.00 2483.50 2483.50	70.92 PK 58.82 AV 47.83 PK 35.73 AV	114.00 94.00 74.00 54.00	-43.08 -35.18 -26.17 -18.27	(m) 1.50 V 1.50 V 1.00 V 1.00 V	(Degree)  133  133  133  133	(dBuV) 67.60 55.50 44.47 32.37	(dB/m) 3.32 3.32 3.36 3.36
2 3 4 5	*2475.00 2483.50 2483.50 4950.00	70.92 PK 58.82 AV 47.83 PK 35.73 AV 51.36 PK	114.00 94.00 74.00 54.00 74.00	-43.08 -35.18 -26.17 -18.27 -22.64	(m) 1.50 V 1.50 V 1.00 V 1.00 V 1.50 V	(Degree)  133 133 133 133 133 180	(dBuV) 67.60 55.50 44.47 32.37 45.19	(dB/m) 3.32 3.32 3.36 3.36 6.17

#### **REMARKS:**

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " \* ": Fundamental frequency.

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#### 4.2 20dB BANDWIDTH MEASUREMENT

# 4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

#### 4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 19,17	May 18,18
Power Sensor	Keysight	U2021XA	MY55060018	May 19,17	May 18,18
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 17	Oct.12, 18
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,17	Sep. 04,18
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04,16	Nov. 03,17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04,16	Nov. 03,17
Agile Signal Generator	Agilent	8645A	Agilent	Aug.08, 17	Aug.07, 18
Spectrum Analyzer	Keysight	N9020A	MY55400499	Apr. 10,17	Apr. 09,18
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec.05, 16	Dec. 04, 17
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A

#### NOTE:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

#### 4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

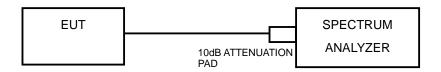
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# 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

# 4.2.5 TEST SETUP



# 4.2.6 EUT OPERATING CONDITIONS

- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

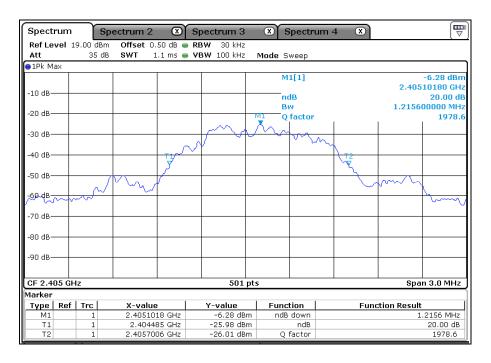
#### 4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2405	1.2156
Middle	2433	1.2096
High	2475	1.2036

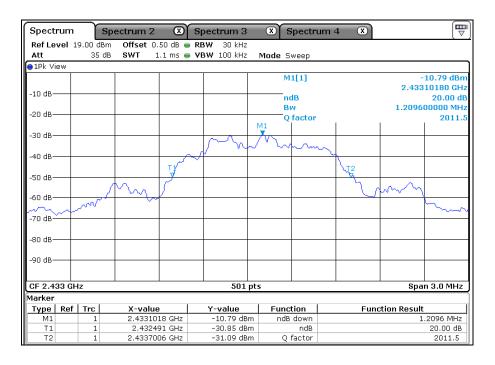
No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China



#### **Test Data: Low channel**



#### **Test Data: Middle channel**

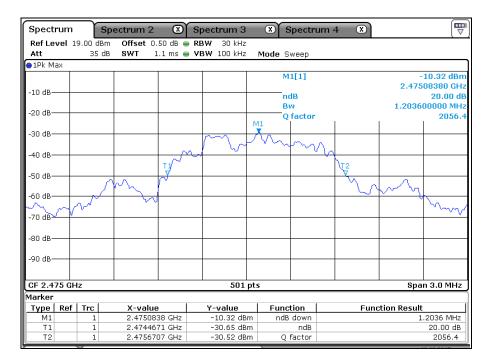


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# **Test Data: High channel**



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# 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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# 6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---

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