

TEST REPORT

Applicant	CATALANA de INVESTIGACION y DESARROLLO de ELECTRONICA INTERACTIVE S.L.U
Address	Viladecans Business Park, Edificio Brasil, C/ Catalunya, 83-85 Pl.1 B1, 08840 VILADECANS - BARCELONA, SPAIN

Manufacturer or Supplier	Foshan City NanHai District XinHe XinMei Toys Factory
Address	Yongan Industrial Zone, Guanyao, Nanhai District, Foshan, Guangdong, China.
Product	KURIO XTREME 2
Brand Name	CIDE INTERACTIVE
Model	C15150I
Additional Model & Model Difference	N/A
Date of tests	May 13, 2015 ~ May 27, 2015

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart C, Section 15.247**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Yuqiang Yin Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
	 Date: May 28, 2015

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS.....	5
2 MEASUREMENT UNCERTAINTY	5
3 GENERAL INFORMATION	6
3.1 GENERAL DESCRIPTION OF EUT.....	6
3.2 DESCRIPTION OF TEST MODES.....	7
3.2.1 CONFIGURATION OF SYSTEM UNDER TEST	8
3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL.....	8
3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS.....	11
3.4 DESCRIPTION OF SUPPORT UNITS.....	11
4 TEST TYPES AND RESULTS.....	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	12
4.1.2 TEST INSTRUMENTS.....	12
4.1.3 TEST PROCEDURES	13
4.1.4 DEVIATION FROM TEST STANDARD	13
4.1.5 TEST SETUP	14
4.1.6 EUT OPERATING CONDITIONS	14
4.1.7 TEST RESULTS	15
4.2 RADIATED EMISSION MEASUREMENT	17
4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	17
4.2.2 TEST INSTRUMENTS.....	18
4.2.3 TEST PROCEDURES	19
4.2.4 DEVIATION FROM TEST STANDARD	19
4.2.5 TEST SETUP	20
4.2.6 EUT OPERATING CONDITIONS	20
4.2.7 TEST RESULTS	21
4.3 6dB BANDWIDTH MEASUREMENT	35
4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT	35
4.3.2 TEST INSTRUMENTS.....	35
4.3.3 TEST PROCEDURE.....	35
4.3.4 DEVIATION FROM TEST STANDARD	35
4.3.5 TEST SETUP	36



4.3.6	EUT OPERATING CONDITIONS	36
4.3.7	TEST RESULTS	37
4.4	CONDUCTED OUTPUT POWER	41
4.4.1	LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT	41
4.4.2	TEST SETUP	41
4.4.3	TEST INSTRUMENTS	41
4.4.4	TEST PROCEDURES	41
4.4.5	DEVIATION FROM TEST STANDARD	41
4.4.6	EUT OPERATING CONDITIONS	42
4.4.7	TEST RESULTS	42
4.3.7.1	MAXIMUM PEAK OUTPUT POWER	42
4.3.7.2	AVERAGE OUTPUT POWER (FOR REFERENCE)	43
4.5	POWER SPECTRAL DENSITY MEASUREMENT	44
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	44
4.5.2	TEST SETUP	44
4.5.3	TEST INSTRUMENTS	44
4.5.4	TEST PROCEDURE	44
4.5.5	DEVIATION FROM TEST STANDARD	44
4.5.6	EUT OPERATING CONDITION	45
4.5.7	TEST RESULTS	45
4.6	OUT OF BAND EMISSION MEASUREMENT	49
4.6.1	LIMITS OF OUT OF BAND EMISSION MEASUREMENT	49
4.6.2	TEST SETUP	49
4.6.3	TEST INSTRUMENTS	49
4.6.4	TEST PROCEDURE	49
4.6.5	DEVIATION FROM TEST STANDARD	50
4.6.6	EUT OPERATING CONDITION	50
4.6.7	TEST RESULTS	51
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	55
6	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	56



Test Report No.: RF150513N003-2

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF150513N003-2	Original release	May 28, 2015



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit.
15.247(d)	Out of Band Emissions Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted Output power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

2 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
Conducted emissions	9kHz~30MHz	2.66dB
Radiated emissions	9KHz ~ 30MHz	2.74dB
	30MHz ~ 1GMHz	3.55dB
	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	4.84dB

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	KURIO XTREME 2
MODEL NO.	C15150I
FCC ID	NXM-C15150I
NOMINAL VOLTAGE	DC 3.7V by Battery DC 5V by adapter or host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
OPERATING FREQUENCY	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
PEAK POWER	21.88dBm (Measured Max.)
ANTENNA TYPE	Wire Antenna, 0dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: Unshielded, Detachable 1.0m

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 150513N003) for detailed product photo.
- The EUT was powered by the following adapter:

ADAPTER	
BRAND:	N/A
MODEL:	SPPS050200U
INPUT:	AC 100-240V, 50/60HZ, 0.35A
OUTPUT:	DC 5V, 2.0A
DC LINE:	N/A

- The EUT provides one transmitter and one receiver.

MODULATION MODE	TX FUNCTION
802.11b	1TX/1RX
802.11g	1TX/1RX
802.11n (HT20)	1TX/1RX
802.11n (HT40)	1TX/1RX

3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n(HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		



3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	RE<1G	RE≥1G	PLC	APCM	
A	-	-	-	√	Powered from Battery +WIFI link
B	√	√	√	-	Powered from Adapter +WIFI link
C	-	-	-	-	Powered from USB +WIFI link

Where **RE<1G**: Radiated Emission below 1GHz **RE≥1G**: Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

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

RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
B	802.11g	1 to 11	1	OFDM	BPSK	6.0	X

RADIATED EMISSION TEST (ABOVE 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
B	802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0	X
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
B	802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5	X
B	802.11n HT40	3 to 9	3, 6, 9	OFDM	BPSK	13.5	X

POWER LINE CONDUCTED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11g	1 to 11	1	OFDM	BPSK	6.0

OUT OF BAND EMISSION MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 11	CCK	DBPSK	1.0
A	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
A	802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5
A	802.11n HT40	3 to 9	3, 9	OFDM	BPSK	13.5

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5
A	802.11n HT40	3 to 9	3, 6, 9	OFDM	BPSK	13.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	25deg. C, 55%RH	DC 5V from Adapter	Bob Chen
RE≥1G	25deg. C, 55%RH	DC 5V from Adapter	Bob Chen
PLC	20deg. C, 60%RH	DC 5V from Adapter	Yuqiang Yin
APCM	20deg. C, 60%RH	DC 3.7V from Battery	Yuqiang Yin

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 15.247

558074 D01 DTS Meas Guidance v03r01

ANSI C63.10-2009

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 with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

NOTE: N/A



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCS30	100340	May 11,15	May 10,16
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 11,15	May 10,16
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 11,15	May 10,16
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

- NOTE:**
1. The test was performed in shielded room 553.
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.

4.1.3 TEST PROCEDURES

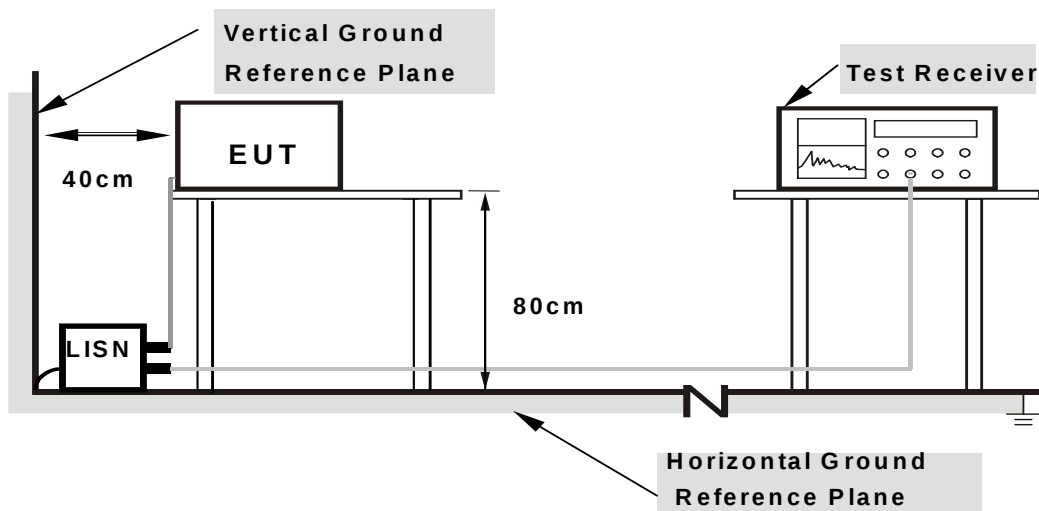
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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 and connected all equipment.
- b. EUT was operated according to the type described in manufacturer's specifications or the user's manual.

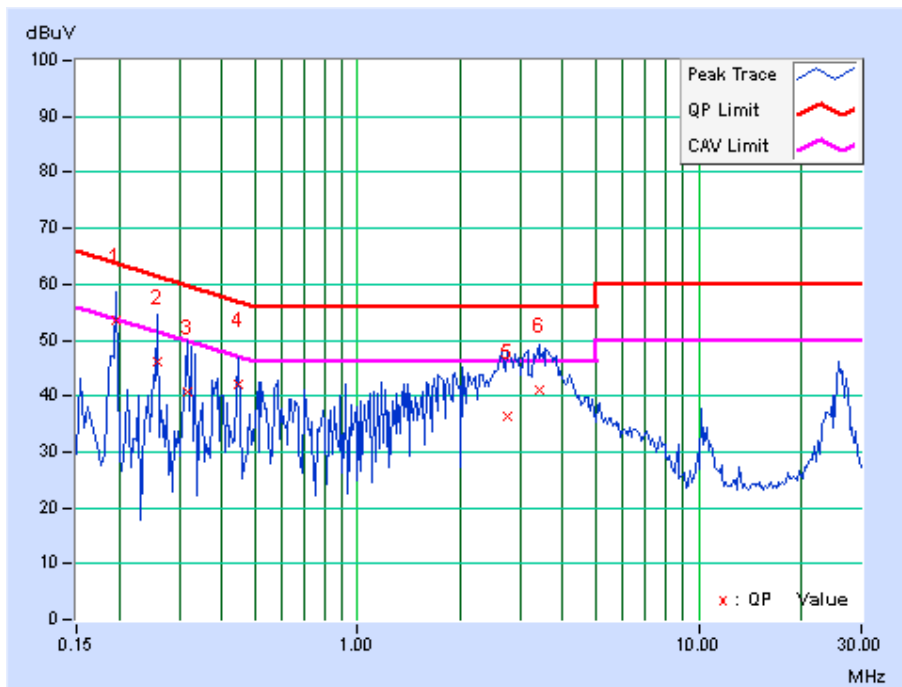
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11g-CH1

PHASE	Line	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	10.67	42.87	23.59	53.54	34.26	63.74	53.74	-10.20	-19.48
2	0.25938	10.64	35.34	17.19	45.98	27.83	61.45	51.45	-15.47	-23.62
3	0.31797	10.65	30.19	26.32	40.84	36.97	59.76	49.76	-18.92	-12.79
4	0.44688	10.64	31.33	27.15	41.97	37.79	56.93	46.93	-14.96	-9.14
5	2.73828	10.12	26.10	15.26	36.22	25.38	56.00	46.00	-19.78	-20.62
6	3.40234	10.15	30.82	19.18	40.97	29.33	56.00	46.00	-15.03	-16.67

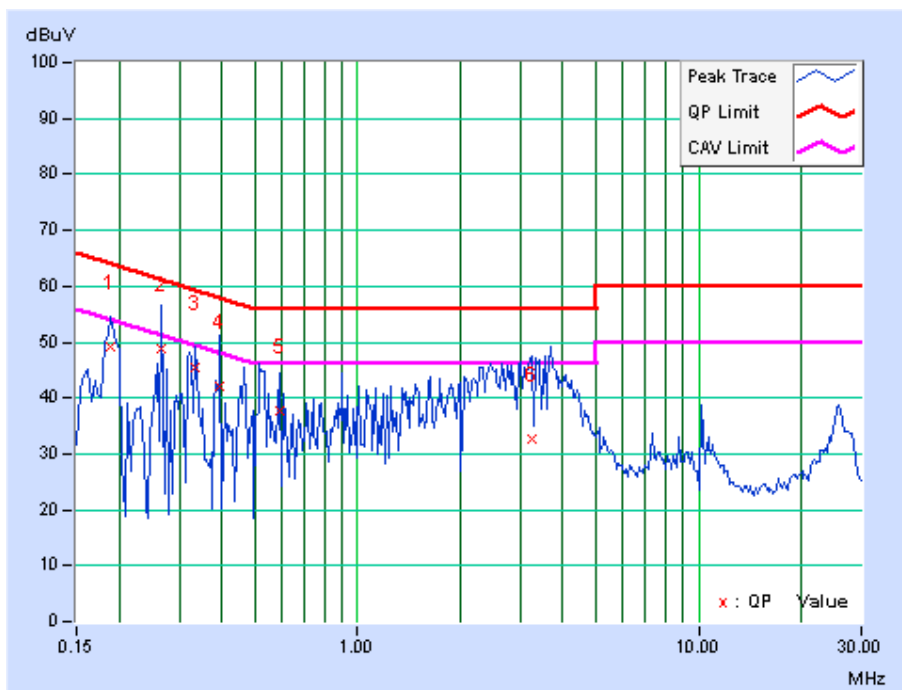
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



PHASE	Neutral	6dB BANDWIDTH	9kHz
-------	---------	---------------	------

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18906	10.57	38.60	34.50	49.17	45.07	64.08	54.08	-14.91	-9.01
2	0.26719	10.56	38.32	12.19	48.88	22.75	61.20	51.20	-12.33	-28.46
3	0.33359	10.59	34.90	18.45	45.49	29.04	59.36	49.36	-13.87	-20.32
4	0.39609	10.62	31.57	16.04	42.19	26.66	57.93	47.93	-15.75	-21.28
5	0.59141	10.46	27.41	5.19	37.87	15.65	56.00	46.00	-18.13	-30.35
6	3.23047	9.90	22.85	8.75	32.75	18.65	56.00	46.00	-23.25	-27.35

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

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

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.



4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	Apr. 29,15	Apr. 28,16
EMI Test Receiver	Rohde&Schwarz	ESVS10	841431/004	May 17,15	May 16,16
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Dec. 22,14	Dec. 21,15
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 25, 14	Jul. 24, 15
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 30,14	May 29,16
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	Jan. 21,15	Jan. 20,16
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,15	Mar. 03, 16
Signal Amplifier	Agilent	8447D	2944A10488	Jun. 25,14	Jun. 24,15
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 13,15	May 12,16
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 20,14	Nov. 19,15
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Apr. 19,14	Apr. 18,16
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 27,14	Oct. 26,15
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 is 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 above 1GHz if tested.
4. The FCC Site Registration No. is 494399.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters 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. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

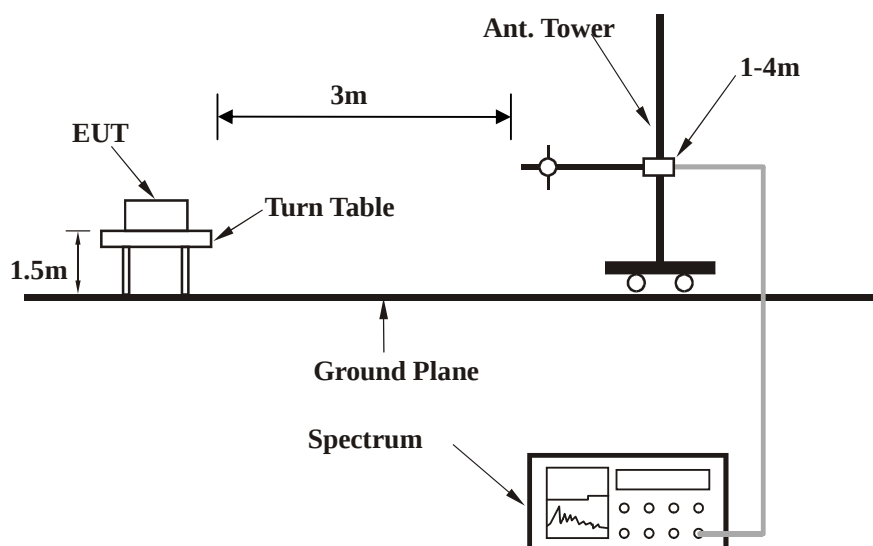
NOTE:

- 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.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



4.2.7 TEST RESULTS

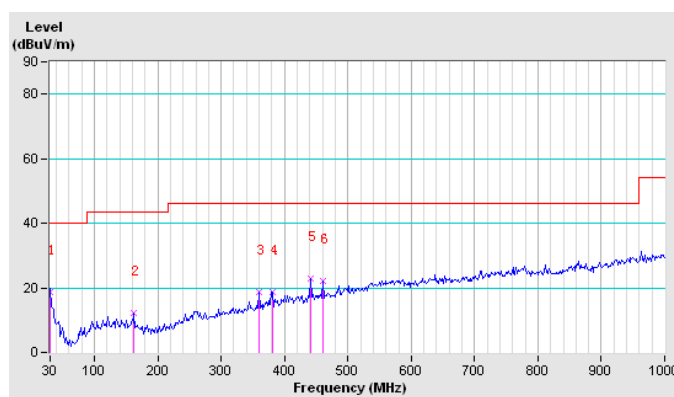
BELOW 1GHz WORST-CASE DATA: 802.11g- CH1

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	30.00	18.61	40.00	-21.39	100	0	31.16	-12.55
2	162.57	12.30	43.50	-31.20	100	0	31.73	-19.43
3	359.80	18.78	46.00	-27.22	100	0	32.08	-13.30
4	380.82	18.50	46.00	-27.50	100	0	31.18	-12.68
5	440.63	22.96	46.00	-23.04	100	0	33.76	-10.80
6	460.03	21.99	46.00	-24.01	100	0	31.74	-9.75

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

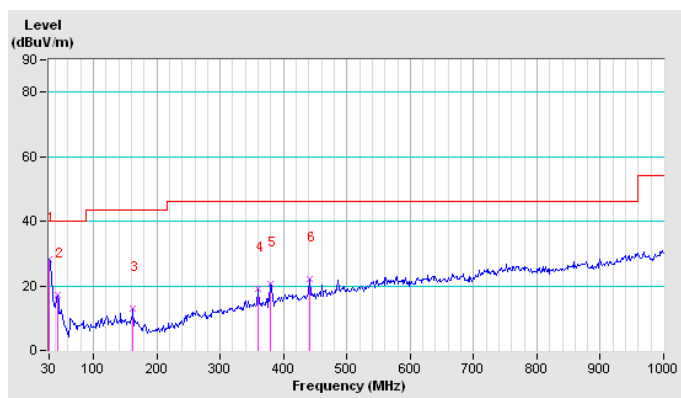


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	30.00	28.10	40.00	-11.90	100	0	40.65	-12.55
2	42.93	17.21	40.00	-22.79	100	0	36.08	-18.87
3	162.57	13.09	43.50	-30.41	100	0	32.52	-19.43
4	359.80	19.19	46.00	-26.81	100	0	32.49	-13.30
5	379.20	20.59	46.00	-25.41	100	0	33.31	-12.72
6	440.63	22.06	46.00	-23.94	100	0	32.86	-10.80

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





ABOVE 1GHz DATA

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	2390.00	50.0 PK	74.0	-24.0	1.16 H	186	46.84	3.16
2	2390.00	36.8 AV	54.0	-17.2	1.16 H	186	33.64	3.16
3	#2400.00	52.3 PK	62.7	-10.4	1.16 H	186	49.11	3.19
4	#2400.00	40.5 AV	57.9	-17.4	1.16 H	186	37.31	3.19
5	*2412.00	82.7 PK			1.16 H	186	79.47	3.23
6	*2412.00	77.9 AV			1.16 H	186	74.67	3.23
7	4824.00	46.5 PK	74.0	-27.5	1.00 H	311	37.05	9.45
8	4824.00	31.8 AV	54.0	-22.2	1.00 H	311	22.35	9.45
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	2390.00	50.2 PK	74.0	-23.8	1.00 V	98	47.04	3.16
2	2390.00	37.2 AV	54.0	-16.8	1.00 V	98	34.04	3.16
3	#2400.00	55.4 PK	65.1	-9.7	1.00 V	98	52.21	3.19
4	#2400.00	44.7 AV	61.2	-16.5	1.00 V	98	41.51	3.19
5	*2412.00	85.1 PK			1.00 V	98	81.87	3.23
6	*2412.00	81.2 AV			1.00 V	98	77.97	3.23
7	4824.00	47.6 PK	74.0	-26.4	1.00 V	144	38.15	9.45
8	4824.00	32.6 AV	54.0	-21.4	1.00 V	144	23.15	9.45

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2437.00	85.3 PK			1.24 H	114	81.98	3.32
2	*2437.00	80.7 AV			1.24 H	114	77.38	3.32
3	4874.00	46.1 PK	74.0	-27.9	1.00 H	162	36.58	9.52
4	4874.00	31.3 AV	54.0	-22.7	1.00 H	162	21.78	9.52
5	7311.00	49.5 PK	74.0	-24.5	1.00 H	360	37.64	11.86
6	7311.00	34.3 AV	54.0	-19.7	1.00 H	360	22.44	11.86
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2437.00	84.4 PK			1.26 V	108	81.08	3.32
2	*2437.00	80.1 AV			1.26 V	108	76.78	3.32
3	4874.00	46.1 PK	74.0	-27.9	1.00 V	171	36.58	9.52
4	4874.00	31.3 AV	54.0	-22.7	1.00 V	171	21.78	9.52
5	7311.00	50.1 PK	74.0	-23.9	1.00 V	199	38.24	11.86
6	7311.00	34.5 AV	54.0	-19.5	1.00 V	199	22.64	11.86

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2462.00	78.5 PK			1.18 H	315	74.54	3.96
2	*2462.00	72.9 AV			1.18 H	315	68.94	3.96
3	2483.50	49.3 PK	74.0	-24.7	1.18 H	315	45.25	4.05
4	2483.50	36.8 AV	54.0	-17.2	1.18 H	315	32.75	4.05
5	4924.00	46.6 PK	74.0	-27.4	1.08 H	241	38.05	8.55
6	4924.00	32.4 AV	54.0	-21.6	1.08 H	241	23.85	8.55
7	7386.00	48.9 PK	74.0	-25.1	1.00 H	339	37.33	11.57
8	7386.00	34.6 AV	54.0	-19.4	1.00 H	339	23.03	11.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2462.00	77.2 PK			1.14 V	281	73.24	3.96
2	*2462.00	71.5 AV			1.14 V	281	67.54	3.96
3	2483.50	49.7 PK	74.0	-24.3	1.14 V	281	45.65	4.05
4	2483.50	36.8 AV	54.0	-17.2	1.14 V	281	32.75	4.05
5	4924.00	46.8 PK	74.0	-27.2	1.00 V	98	38.25	8.55
6	4924.00	32.6 AV	54.0	-21.4	1.00 V	98	24.05	8.55
7	7386.00	49.5 PK	74.0	-24.5	1.00 V	177	37.93	11.57
8	7386.00	34.7 AV	54.0	-19.3	1.00 V	177	23.13	11.57

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	2390.00	49.3 PK	74.0	-24.7	1.17 H	184	46.14	3.16
2	2390.00	36.8 AV	54.0	-17.2	1.17 H	184	33.64	3.16
3	#2400.00	59.9 PK	63.9	-4.0	1.17 H	184	56.71	3.19
4	#2400.00	39.0 AV	48.9	-9.9	1.17 H	184	35.81	3.19
5	*2412.00	83.9 PK			1.17 H	184	77.67	3.23
6	*2412.00	68.9 AV			1.17 H	184	65.67	3.23
7	4824.00	46.5 PK	74.0	-27.5	1.00 H	189	37.05	9.45
8	4824.00	31.5 AV	54.0	-22.5	1.00 H	189	22.05	9.45
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	2390.00	52.7 PK	74.0	-21.3	1.00 V	102	49.54	3.16
2	2390.00	36.8 AV	54.0	-17.2	1.00 V	102	33.64	3.16
3	#2400.00	63.0 PK	66.1	-3.1	1.00 V	102	59.81	3.19
4	#2400.00	40.1 AV	51.5	-11.4	1.00 V	102	36.91	3.19
5	*2412.00	86.1 PK			1.00 V	102	80.87	3.23
6	*2412.00	71.5 AV			1.00 V	102	68.27	3.23
7	4824.00	46.2 PK	74.0	-27.8	1.00 V	131	36.75	9.45
8	4824.00	31.4 AV	54.0	-22.6	1.00 V	131	21.95	9.45

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2437.00	84.0 PK			1.24 H	119	80.68	3.32
2	*2437.00	72.1 AV			1.24 H	119	68.78	3.32
3	4874.00	46.5 PK	74.0	-27.5	1.00 H	119	36.98	9.52
4	4874.00	31.4 AV	54.0	-22.6	1.00 H	119	21.88	9.52
5	7311.00	49.6 PK	74.0	-24.4	1.00 H	360	37.74	11.86
6	7311.00	34.2 AV	54.0	-19.8	1.00 H	360	22.34	11.86
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2437.00	84.7 PK			1.27 V	109	81.38	3.32
2	*2437.00	73.6 AV			1.27 V	109	70.28	3.32
3	4874.00	47.1 PK	74.0	-26.9	1.00 V	101	37.58	9.52
4	4874.00	31.6 AV	54.0	-22.4	1.00 V	101	22.08	9.52
5	7311.00	50.1 PK	74.0	-23.9	1.00 V	74	38.24	11.86
6	7311.00	34.7 AV	54.0	-19.3	1.00 V	74	22.84	11.86

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2462.00	77.8 PK			1.19 H	320	73.84	3.96
2	*2462.00	64.9 AV			1.19 H	320	60.94	3.96
3	2483.50	49.9 PK	74.0	-24.1	1.19 H	320	45.85	4.05
4	2483.50	36.9 AV	54.0	-17.1	1.19 H	320	32.85	4.05
5	4924.00	46.5 PK	74.0	-27.5	1.00 H	324	37.95	8.55
6	4924.00	32.2 AV	54.0	-21.8	1.00 H	324	23.65	8.55
7	7386.00	49.7 PK	74.0	-24.3	1.00 H	360	38.13	11.57
8	7386.00	34.5 AV	54.0	-19.5	1.00 H	360	22.93	11.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2462.00	76.2 PK			1.14 V	284	72.24	3.96
2	*2462.00	63.8 AV			1.14 V	284	59.84	3.96
3	2483.50	49.7 PK	74.0	-24.3	1.14 V	284	45.65	4.05
4	2483.50	36.8 AV	54.0	-17.2	1.14 V	284	32.75	4.05
5	4924.00	46.3 PK	74.0	-27.7	1.00 V	179	37.75	8.55
6	4924.00	32.3 AV	54.0	-21.7	1.00 V	179	23.75	8.55
7	7386.00	48.7 PK	74.0	-25.3	1.00 V	314	37.13	11.57
8	7386.00	34.5 AV	54.0	-19.5	1.00 V	314	22.93	11.57

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	2390.00	49.8 PK	74.0	-24.2	1.15 H	184	46.64	3.16
2	2390.00	36.6 AV	54.0	-17.4	1.15 H	184	33.44	3.16
3	#2400.00	60.3 PK	63.6	-3.3	1.15 H	184	57.11	3.19
4	#2400.00	38.6 AV	47.7	-9.1	1.15 H	184	35.41	3.19
5	*2412.00	83.6 PK			1.15 H	184	77.37	3.23
6	*2412.00	67.7 AV			1.15 H	184	64.47	3.23
7	4824.00	46.1 PK	74.0	-27.9	1.00 H	177	36.65	9.45
8	4824.00	31.2 AV	54.0	-22.8	1.00 H	177	21.75	9.45
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	2390.00	49.4 PK	74.0	-24.6	1.00 V	95	46.24	3.16
2	2390.00	37.2 AV	54.0	-16.8	1.00 V	95	34.04	3.16
3	#2400.00	62.1PK	65.1	-3.0	1.00 V	95	59.71	3.19
4	#2400.00	40.1 AV	50.7	-10.6	1.00 V	95	36.91	3.19
5	*2412.00	85.1 PK			1.00 V	95	78.87	3.23
6	*2412.00	70.7 AV			1.00 V	95	67.47	3.23
7	4824.00	45.9 PK	74.0	-28.1	1.00 V	61	36.45	9.45
8	4824.00	31.2 AV	54.0	-22.8	1.00 V	61	21.75	9.45

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



**BUREAU
VERITAS**

Test Report No.: RF150513N003-2

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2437.00	83.3 PK			1.25 H	112	79.98	3.32
2	*2437.00	71.7 AV			1.25 H	112	68.38	3.32
3	4874.00	47.1 PK	74.0	-26.9	1.00 H	198	37.58	9.52
4	4874.00	31.6 AV	54.0	-22.4	1.00 H	198	22.08	9.52
5	7311.00	49.5 PK	74.0	-24.5	1.00 H	360	37.64	11.86
6	7311.00	34.2 AV	54.0	-19.8	1.00 H	360	22.34	11.86
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2437.00	84.2 PK			1.28 V	107	80.88	3.32
2	*2437.00	72.5 AV			1.28 V	107	69.18	3.32
3	4874.00	46.3 PK	74.0	-27.7	1.00 V	92	36.78	9.52
4	4874.00	31.3 AV	54.0	-22.7	1.00 V	92	21.78	9.52
5	7311.00	49.1 PK	74.0	-24.9	1.00 V	0	37.24	11.86
6	7311.00	34.2 AV	54.0	-19.8	1.00 V	0	22.34	11.86

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2462.00	76.3 PK			1.18 H	316	72.34	3.96
2	*2462.00	64.3 AV			1.18 H	316	60.34	3.96
3	2483.50	49.7 PK	74.0	-24.3	1.00 H	211	45.65	4.05
4	2483.50	36.8 AV	54.0	-17.2	1.00 H	211	32.75	4.05
5	4924.00	46.6 PK	74.0	-27.4	1.00 H	177	38.05	8.55
6	4924.00	32.4 AV	54.0	-21.6	1.00 H	177	23.85	8.55
7	7386.00	49.2 PK	74.0	-24.8	1.00 H	313	37.63	11.57
8	7386.00	34.4 AV	54.0	-19.6	1.00 H	313	22.83	11.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2462.00	75.8 PK			1.41 V	283	71.84	3.96
2	*2462.00	63.4 AV			1.41 V	283	59.44	3.96
3	2483.50	49.6 PK	74.0	-24.4	1.41 V	283	45.55	4.05
4	2483.50	36.8 AV	54.0	-17.2	1.41 V	283	32.75	4.05
5	4924.00	46.6 PK	74.0	-27.4	1.00 V	78	38.05	8.55
6	4924.00	32.5 AV	54.0	-21.5	1.00 V	78	23.95	8.55
7	7386.00	49.7 PK	74.0	-24.3	1.00 V	199	38.13	11.57
8	7386.00	34.8 AV	54.0	-19.2	1.00 V	199	23.23	11.57

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	2390.00	50.0 PK	74.0	-24.0	1.16 H	186	46.84	3.16
2	2390.00	36.6 AV	54.0	-17.4	1.16 H	186	33.44	3.16
3	#2400.00	50.8 PK	57.7	-6.9	1.16 H	186	47.61	3.19
4	#2400.00	37.8 AV	43.4	-5.6	1.16 H	186	34.61	3.19
5	*2422.00	77.7 PK			1.16 H	186	74.44	3.26
6	*2422.00	63.4 AV			1.16 H	186	60.14	3.26
7	4844.00	47.1 PK	74.0	-26.9	1.00 H	44	37.62	9.48
8	4844.00	32.1 AV	54.0	-21.9	1.00 H	44	22.62	9.48
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	2390.00	50.4 PK	74.0	-23.6	1.28 V	108	47.24	3.16
2	2390.00	37.3 AV	54.0	-16.7	1.28 V	108	34.14	3.16
3	#2400.00	54.1 PK	60.6	-6.5	1.28 V	108	50.91	3.19
4	#2400.00	42.3 AV	46.6	-4.3	1.28 V	108	39.11	3.19
5	*2422.00	80.6 PK			1.28 V	108	77.34	3.26
6	*2422.00	66.6 AV			1.28 V	108	63.34	3.26
7	4844.00	46.5 PK	74.0	-27.5	1.00 V	126	37.02	9.48
8	4844.00	31.9 AV	54.0	-22.1	1.00 V	126	22.42	9.48

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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Test Report No.: RF150513N003-2

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2437.00	80.0 PK			1.24 H	114	76.68	3.32
2	*2437.00	66.4 AV			1.24 H	114	63.08	3.32
3	4874.00	46.2 PK	74.0	-27.8	1.00 H	107	36.68	9.52
4	4874.00	31.1 AV	54.0	-22.9	1.00 H	107	21.58	9.52
5	7311.00	50.1 PK	74.0	-23.9	1.00 H	0	38.24	11.86
6	7311.00	34.2 AV	54.0	-19.8	1.00 H	0	22.34	11.86
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2437.00	80.5 PK			1.25 V	105	77.18	3.32
2	*2437.00	66.9 AV			1.25 V	105	63.58	3.32
3	4874.00	45.8 PK	74.0	-28.2	1.00 V	121	36.28	9.52
4	4874.00	31.1 AV	54.0	-22.9	1.00 V	121	21.58	9.52
5	7311.00	49.6 PK	74.0	-24.4	1.00 V	360	37.74	11.86
6	7311.00	34.1 AV	54.0	-19.9	1.00 V	360	22.24	11.86

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2452.00	71.6 PK			1.00 H	178	67.68	3.92
2	*2452.00	59.8 AV			1.00 H	178	55.88	3.92
3	2483.50	49.8 PK	74.0	-24.2	1.00 H	178	45.75	4.05
4	2483.50	37.1 AV	54.0	-16.9	1.00 H	178	33.05	4.05
5	4904.00	46.3 PK	74.0	-27.7	1.00 H	188	37.77	8.53
6	4904.00	32.3 AV	54.0	-21.7	1.00 H	188	23.77	8.53
7	7356.00	48.9 PK	74.0	-25.1	1.00 H	312	37.31	11.59
8	7356.00	34.4 AV	54.0	-19.6	1.00 H	312	22.81	11.59
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2452.00	70.8 PK			1.00 V	280	66.88	3.92
2	*2452.00	58.6 AV			1.00 V	280	54.68	3.92
3	2483.50	49.8 PK	74.0	-24.2	1.00 V	280	45.75	4.05
4	2483.50	36.9 AV	54.0	-17.1	1.00 V	280	32.85	4.05
5	4904.00	46.5 PK	74.0	-27.5	1.00 V	146	37.97	8.53
6	4904.00	32.4 AV	54.0	-21.6	1.00 V	146	23.87	8.53
7	7356.00	48.9 PK	74.0	-25.1	1.00 V	331	37.31	11.59
8	7356.00	34.4 AV	54.0	-19.6	1.00 V	331	22.81	11.59

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer (10Hz-40GHz)	Rohde&Schwarz	FSV40	101003	Apr. 07,15	Apr. 06,16
Power Meter	Anritsu	ML2495A	1139001	Feb. 20,15	Feb. 19,16
Power Sensor	Anritsu	MA2411B	1126068	Feb. 20,15	Feb. 19,16
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 27,14	Oct. 26,15
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.04,14	Sep. 03,15
Oscilloscope	Agilent	DSO9254A	MY51260160	Oct. 17, 14	Oct. 16, 15
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 05,14	Nov. 04,15

NOTE:

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

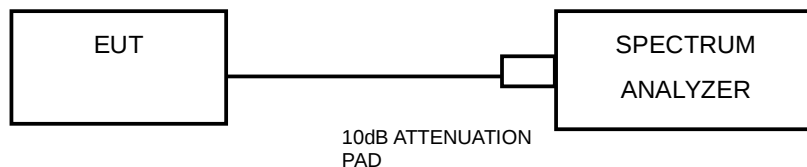
4.3.3 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 100KHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

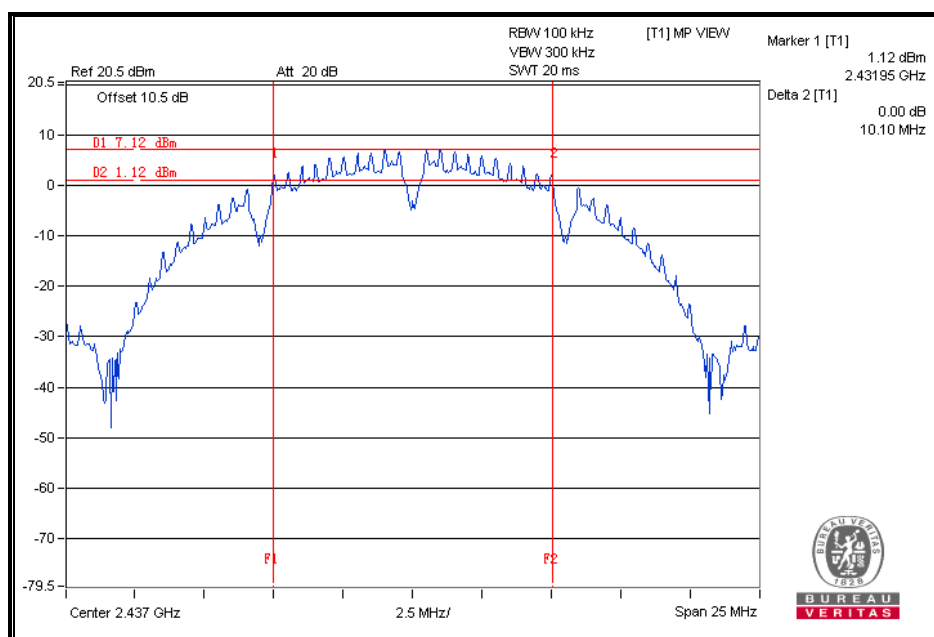
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	10.07	0.5	PASS
6	2437	10.10	0.5	PASS
11	2462	10.10	0.5	PASS



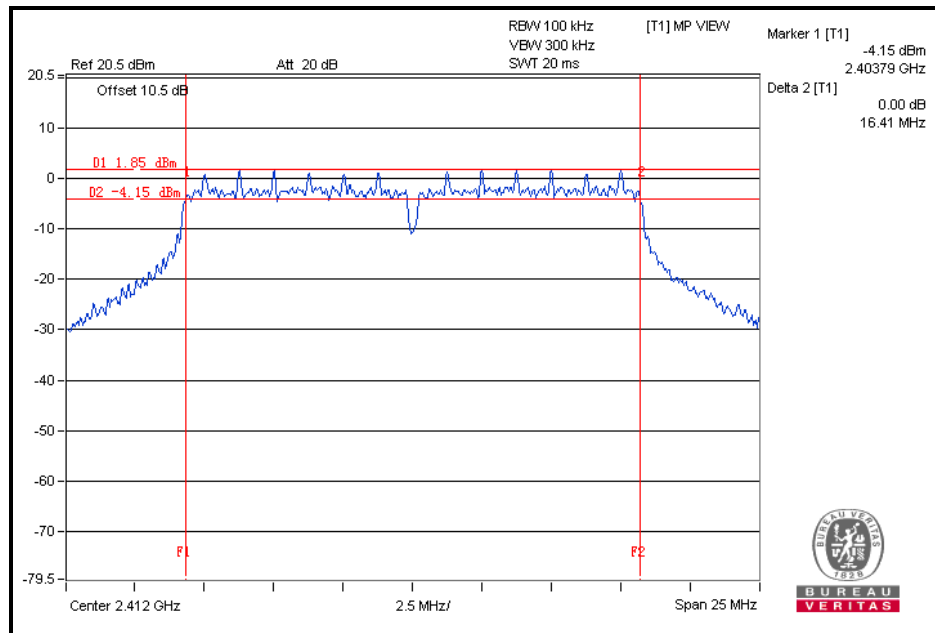


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Test Report No.: RF150513N003-2

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.41	0.5	PASS
6	2437	16.40	0.5	PASS
11	2462	16.39	0.5	PASS



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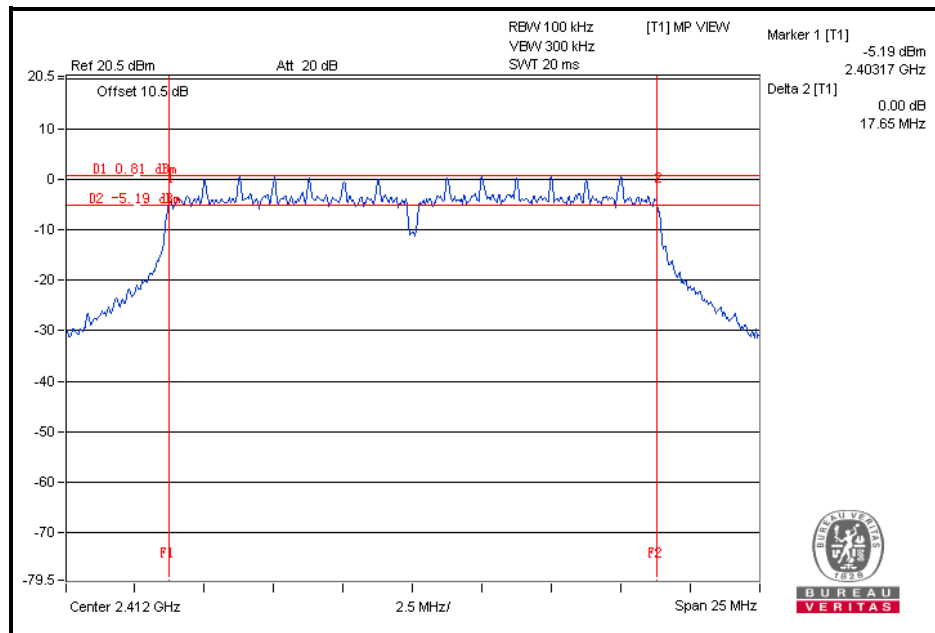


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Test Report No.: RF150513N003-2

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.65	0.5	PASS
6	2437	17.65	0.5	PASS
11	2462	17.63	0.5	PASS



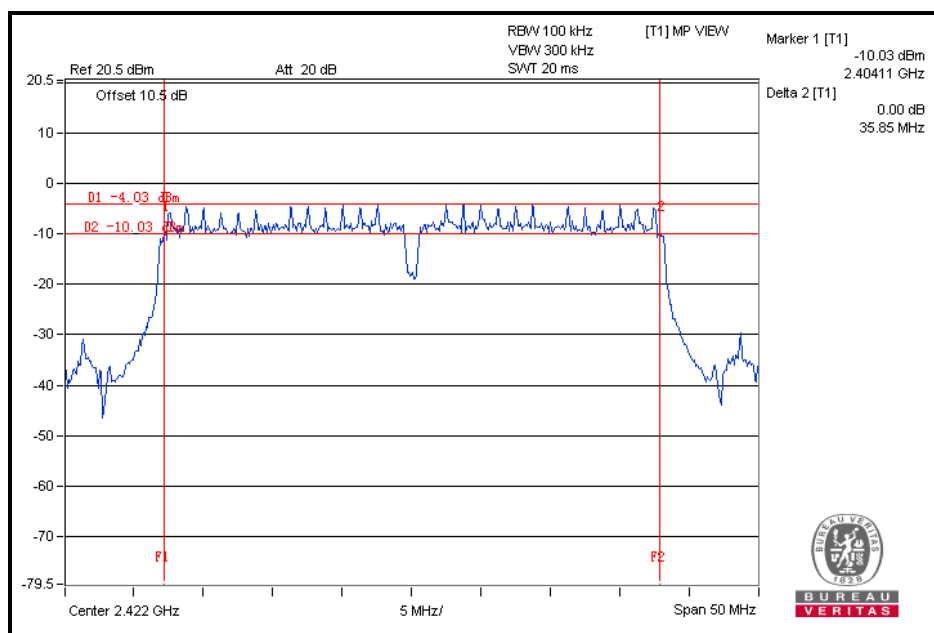
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802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
3	2422	35.85	0.5	PASS
6	2437	35.74	0.5	PASS
9	2452	35.72	0.5	PASS

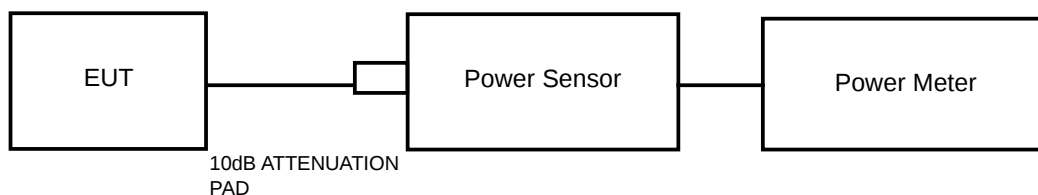


4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer (9KHz–40GHz)	Agilent	E4446A	MY46180622	Apr. 29,15	Apr. 28,16
Spectrum Analyzer (10Hz–40GHz)	Rohde&Schwarz	FSV40	101003	Apr. 07,15	Apr. 06,16
Power Meter	Anritsu	ML2495A	1139001	Feb. 20,15	Feb. 19,16
Power Sensor	Anritsu	MA2411B	1126068	Feb. 20,15	Feb. 19,16
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 27,14	Oct. 26,15

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

4.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A peak power meter was used to read the response of the peak power sensor. Record the peak power level.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.



4.4.6 EUT OPERATING CONDITIONS

Same as item 4.3.6.

4.4.7 TEST RESULTS

4.3.7.1 MAXIMUM PEAK OUTPUT POWER

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	19.61	30.00	PASS
6	2437	19.67	30.00	PASS
11	2462	19.52	30.00	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	21.67	30.00	PASS
6	2437	21.75	30.00	PASS
11	2462	21.88	30.00	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20.55	30.00	PASS
6	2437	20.95	30.00	PASS
11	2462	20.92	30.00	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
3	2422	19.05	30	PASS
6	2437	18.86	30	PASS
9	2452	18.95	30	PASS

4.3.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
1	2412	16.44
6	2437	16.61
11	2462	16.21

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
1	2412	13.75
6	2437	13.95
11	2462	14.16

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
1	2412	12.75
6	2437	12.98
11	2462	12.98

802.11n (40MHz)

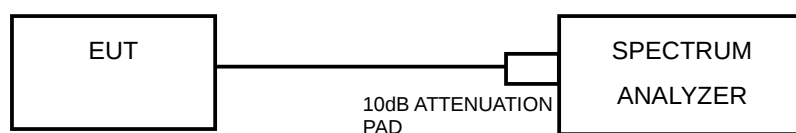
CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
3	2422	10.77
6	2437	11.05
9	2452	11.23

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

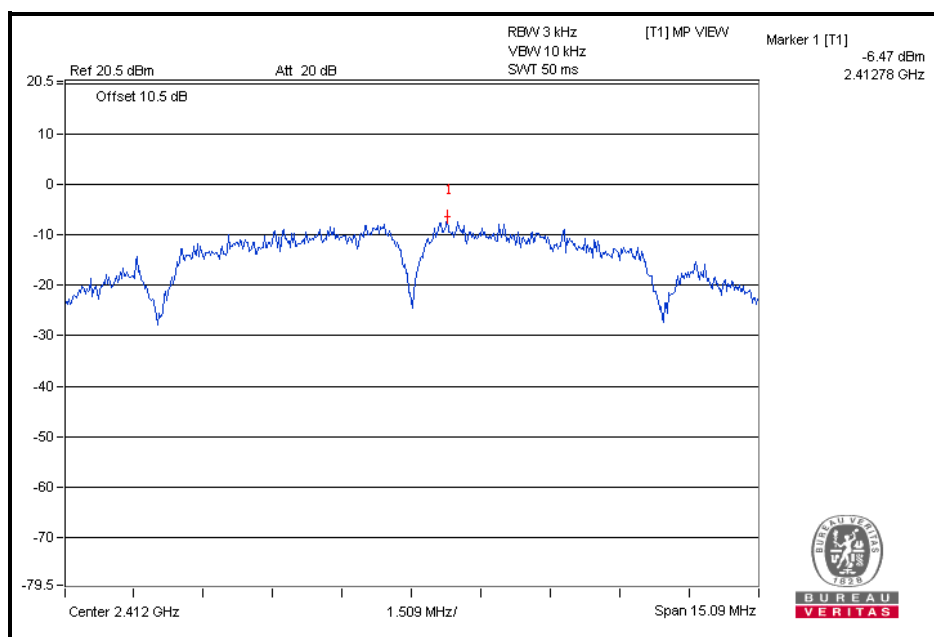
4.5.6 EUT OPERATING CONDITION

Same as item 4.3.6.

4.5.7 TEST RESULTS

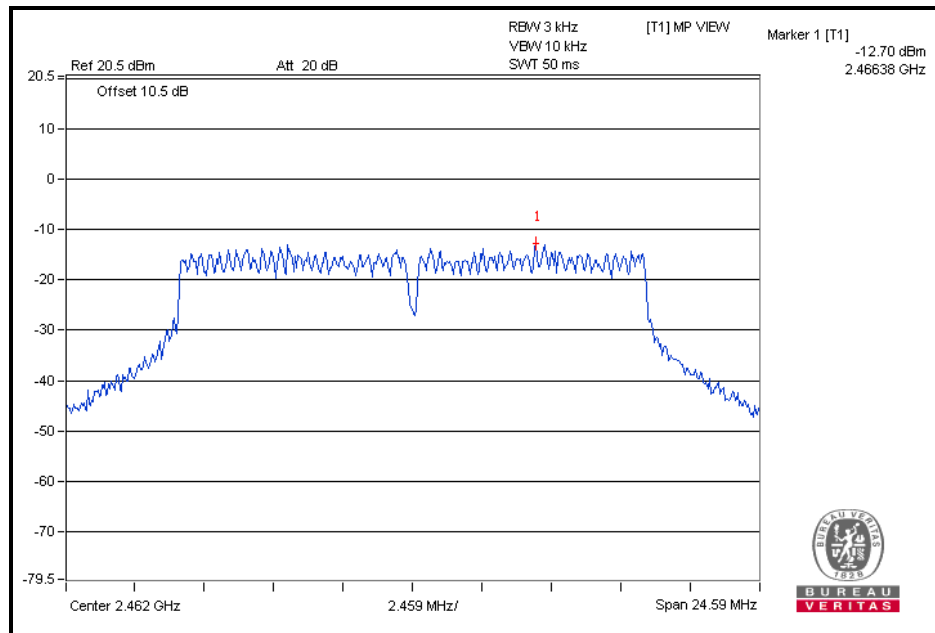
802.11b

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-6.47	8.00	PASS
6	2437	-6.61	8.00	PASS
11	2462	-6.70	8.00	PASS



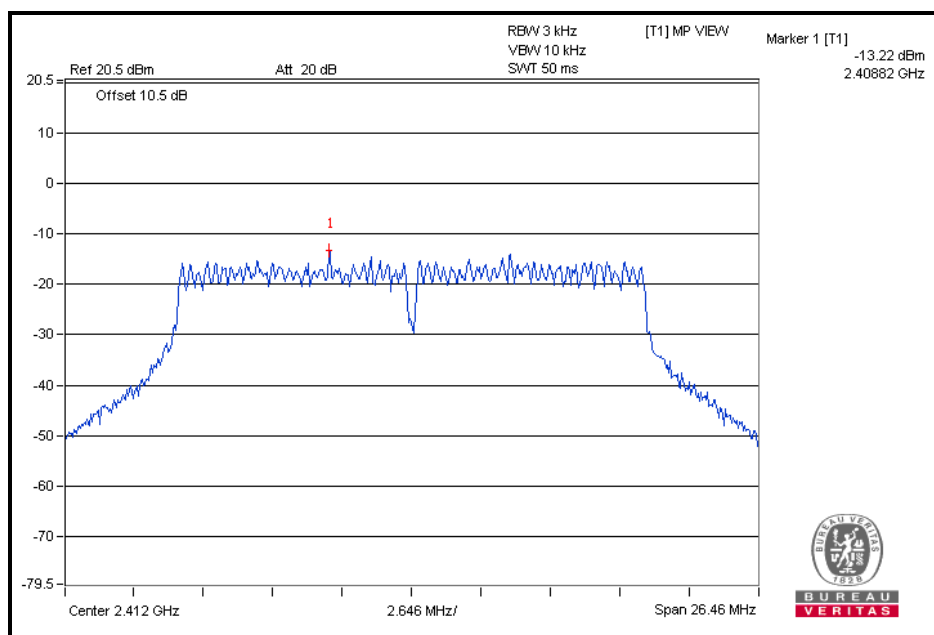
802.11g

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.31	8.00	PASS
6	2437	-12.79	8.00	PASS
11	2462	-12.70	8.00	PASS



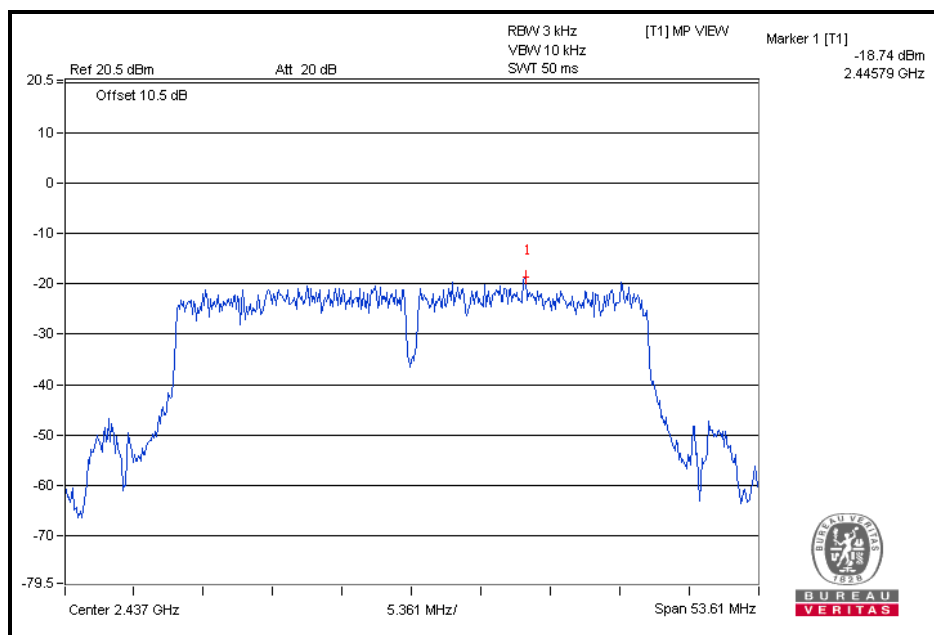
802.11n (20MHz)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.22	8.00	PASS
6	2437	-14.40	8.00	PASS
11	2462	-13.27	8.00	PASS



802.11n (40MHz)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
3	2422	-19.93	8	PASS
6	2437	-18.74	8	PASS
9	2452	-18.89	8	PASS

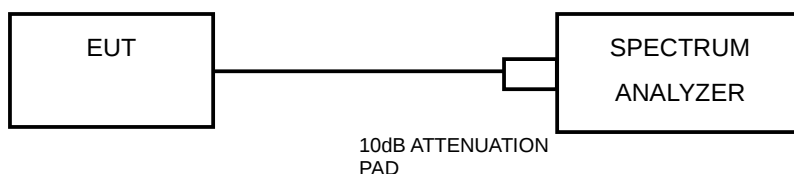


4.6 OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

Measurement Procedure - Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



Measurement Procedure –Unwanted Emission Level

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

Same as item 4.3.6.

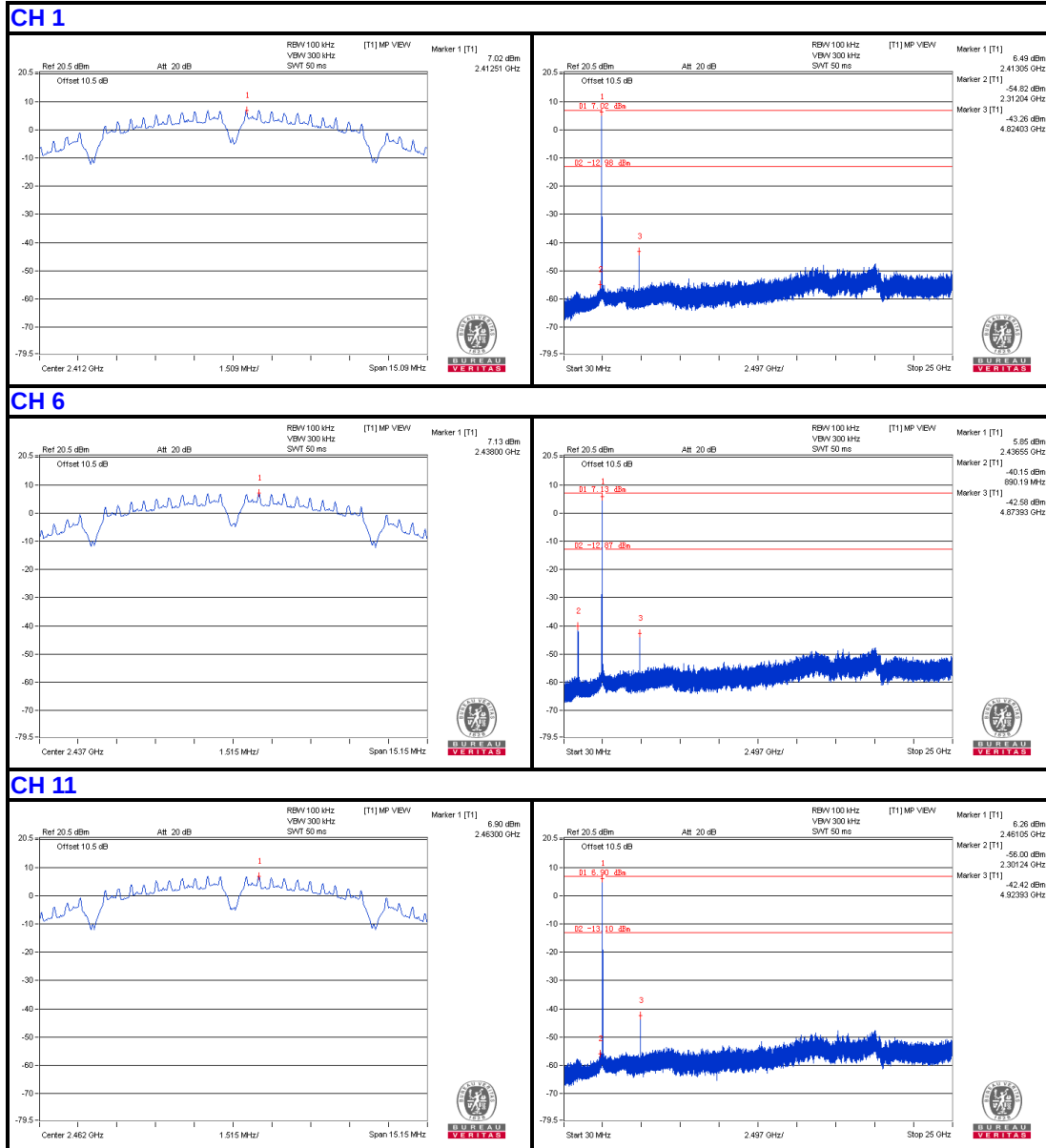


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4.6.7 TEST RESULTS

802.11b



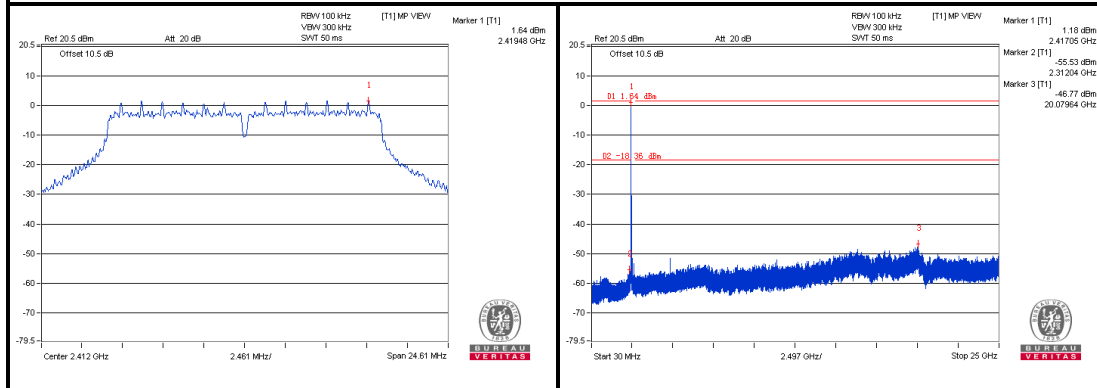


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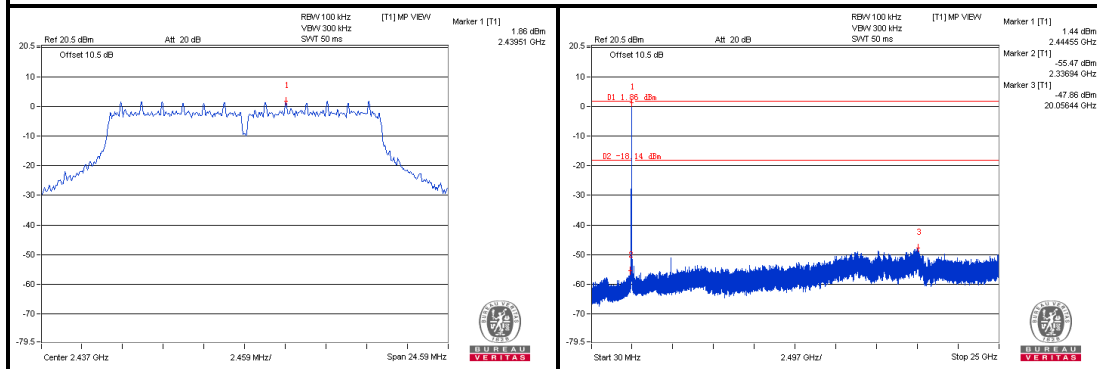
Test Report No.: RF150513N003-2

802.11g

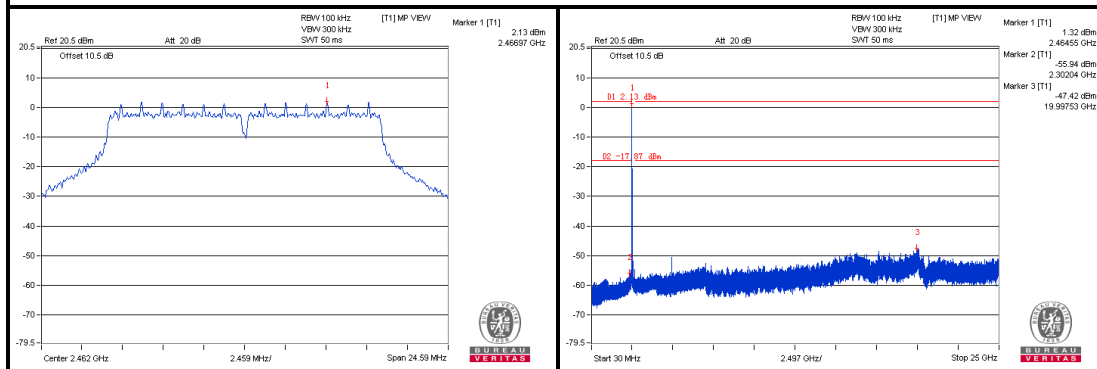
CH 1



CH 6



CH 11



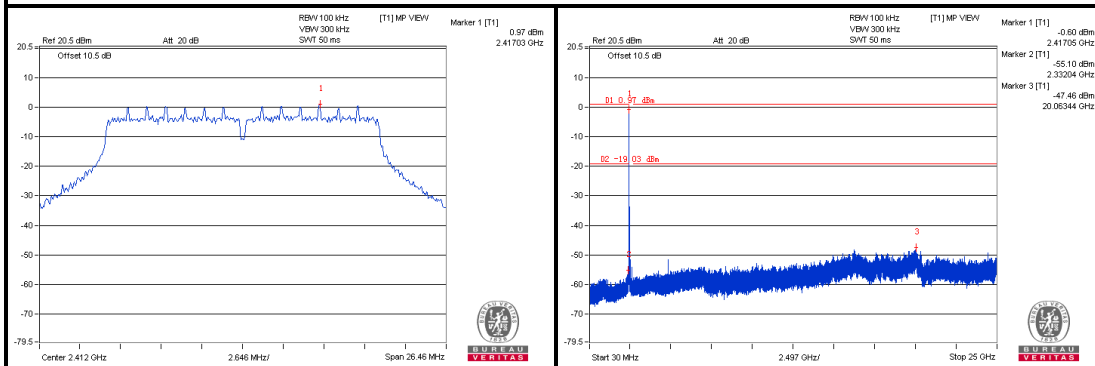
Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

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

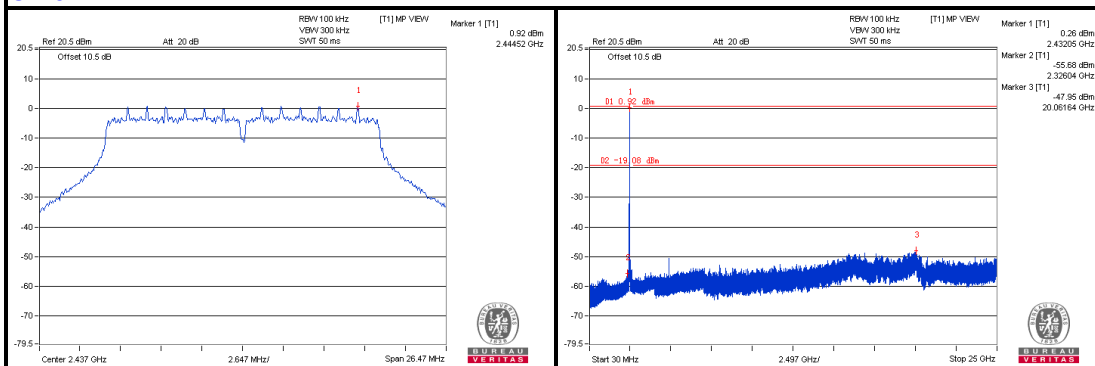
Tel: +86 769 8593 5656
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com

802.11n (20MHz)

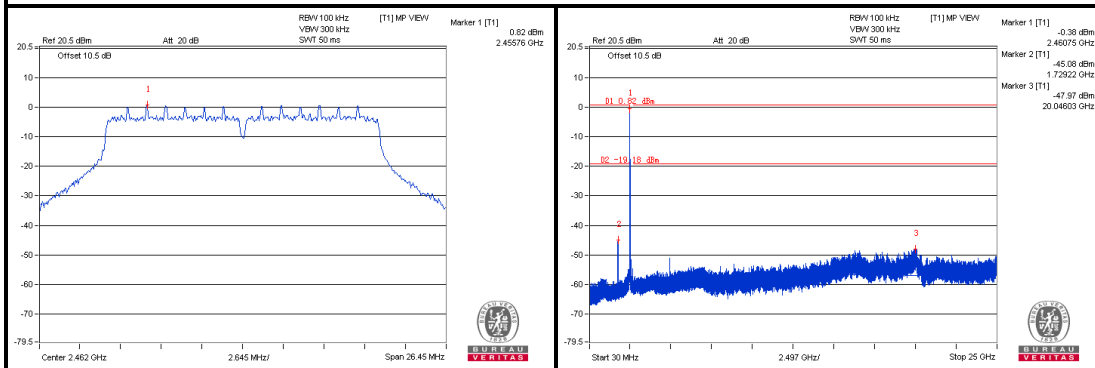
CH 1



CH 6



CH 11



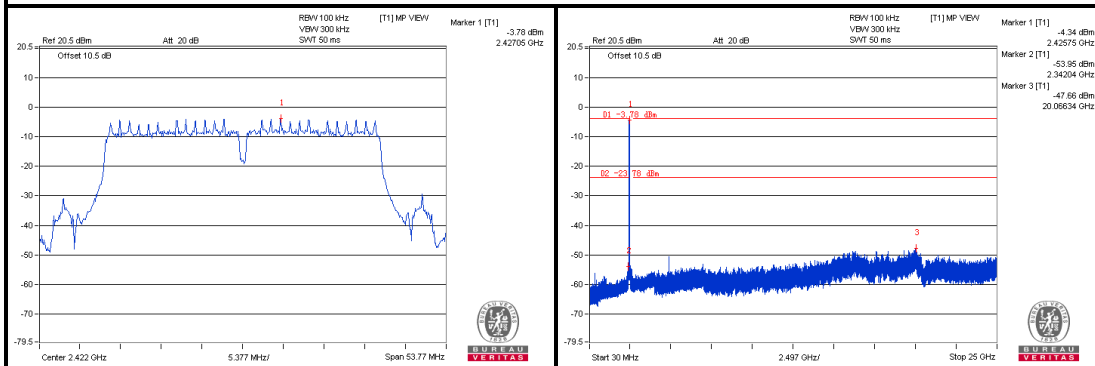


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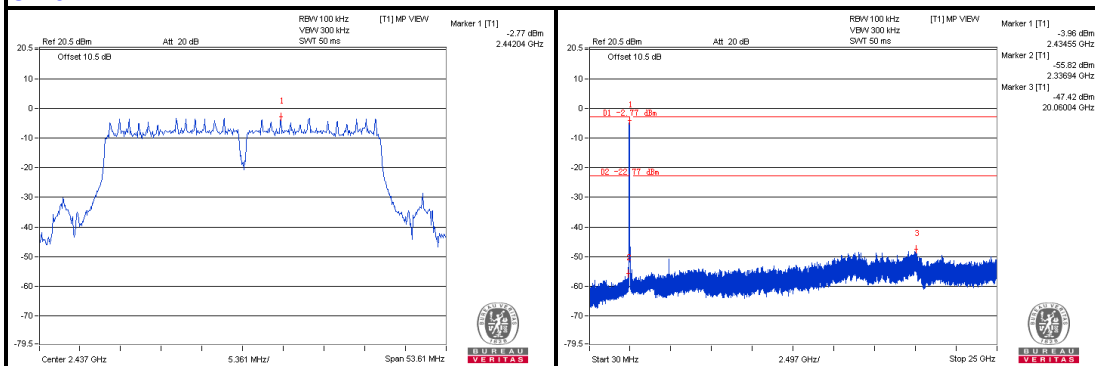
Test Report No.: RF150513N003-2

802.11n (40MHz)

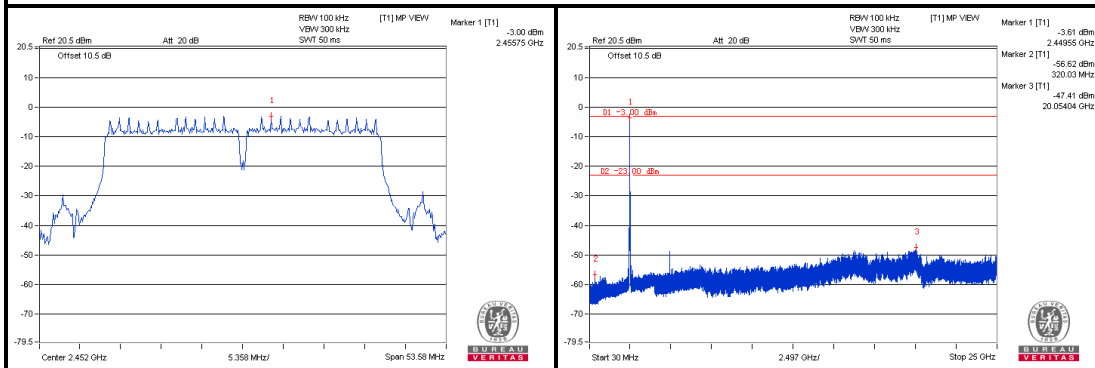
CH 3



CH 6



CH 9



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Test Report No.: RF150513N003-2

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



Test Report No.: RF150513N003-2

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---