



TEST REPORT

Applicant	KAIZHENG TOYS FACTORY
Address	HUAIDONG INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

Manufacturer or Supplier	KAIZHENG TOYS FACTORY	
Address	HUAIDONG INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA	
Product:	REMOTE CONTROL AIRCRAFT CAMERA	
Brand Name:	N/A	
Model:	H98WH(Camera)	
Additional Model & Model Difference	AV-DRC04-101, H98, H98C, etc; See items 3.1	
Date of tests:	Apr. 14, 2017 ~ May 12, 2017	

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

Approved by Breeze Jiang	Approved by Chris Chen
Project Engineer/ EMC Department	Manager / EMC Department

Date: May 12, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF170314N100-1	Original release	May 12, 2017

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	N/A	Powered by Battery		
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit.		
15.247(d)	Band Edge 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
	9KHz ~ 30MHz	2.90dB
Radiated emissions	30MHz ~ 1GMHz	3.83dB
ixadiated emissions	1GHz ~ 18GHz	4.93dB
	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	REMOTE CONTROL AIRCRAFT CAMERA		
MODEL NO.	H98WH(Camera)		
ADDITIONAL MODELS	AV-DRC04-101, H98, H98C, H23, H23W, H8MINI, M15, M23, M25, XX1, XX2, XX3, XX5, XX6, XX7, XX8, XX9, XX10, XX12, XX13, XX15, XX18, XX19, XX20, XX21, XX22, XX23, XX25, KK2, KK3, KK4, KK5, KK6, KK8, KK9, KK10, KK12, KK13, 8229		
FCC ID	2ALSE-KAIZHENGH98C		
NOMINAL VOLTAGE	DC 3.7V from host unit		
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
MODULATION TECHNOLOGY	DSSS, OFDM		
OPERATING FREQUENCY	2412-2462MHz for 11b/g		
PEAK POWER	20.15dBm (Maximum peak Power)		
ANTENNA TYPE	Wire Antenna, with 0dBi gain		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	N/A		

NOTE:

1. The EUT incorporates a SISO function.

MODULATION MODE	FUNCTION
802.11b	1TX/1RX
802.11g	1TX/1RX

- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 4. Please refer to the EUT photo document (Reference No.: 170314N100-1) for detailed product photo.
- Additional models AV-DRC04-101, H98, H98C, H23, H23W, H8MINI, M15, M23, M25, XX1, XX2, XX3, XX5, XX6, XX7, XX8, XX9, XX10, XX12, XX13, XX15, XX18, XX19, XX20, XX21, XX22, XX23, XX25, KK2, KK3, KK4, KK5, KK6, KK8, KK9, KK10, KK12, KK13, 8229 are identical with the test model H98WH except the model no. for trading purpose.

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DESCRIPTION OF TEST MODES 3.2

11 channels are provided for 802.11b, 802.11g:

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		

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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	APPLICABLE TO			MODE	
MODE	RE<1G	RE≥1G	PLC	APCM	WODE
А	V	V	-	√	Powered by plane with WIFI function

Where

RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

NOTE: No need to concern of Conducted Emission due to the EUT is powered by host unit(plane).

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, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

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

ı	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
8	302.11b	1 to 11	1	OFDM	BPSK	6.0	Х

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
802.11b	1 to 11	1, 6, 11	ССК	DBPSK	1.0	Х
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Х



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BANDEDGE 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 11	ССК	DBPSK	1.0
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	25deg. C, 55%RH	DC 3.7V from plane	Eric Fang
RE≥1G	25deg. C, 55%RH	DC 3.7V from plane	Eric Fang
PLC	N/A	N/A	N/A
APCM	20deg. C, 55%RH	DC 3.7V from plane	Sen He

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 KDB 558074 D01 DTS Meas Guidance v03r05 ANSI C63.10-2013

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

NOTE: It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B(VoC). The test report has been issued separately.

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	Aircraft	KAIZHENG	XX1	N/A	N/A

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

4 TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 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.



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4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 11,17	Mar. 10,18
Signal and Spectrum Analyzer	Rohde&Schwar z	FSV7	102331	Nov. 04,16	Nov. 03,17
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 16	Jul. 13, 17
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 18,16	May 17,17
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Aug. 08, 16	Aug. 07, 17
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	NSEMC003	Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
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
BLUETOOTH TESTER	Rohde&Schwar z	CBT32	100811	Aug. 08,16	Aug. 07,17

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 502831.

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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. 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.
- 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

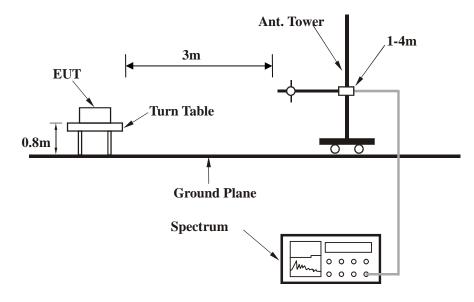
No deviation.

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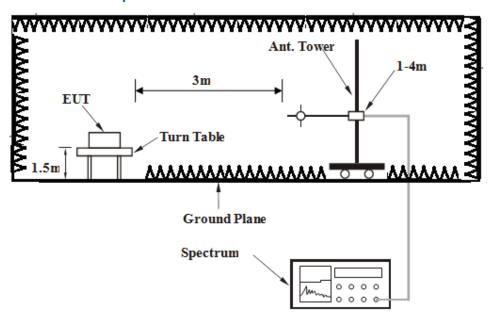
4.1.5 TEST SETUP

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



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4.1.7 TEST RESULTS

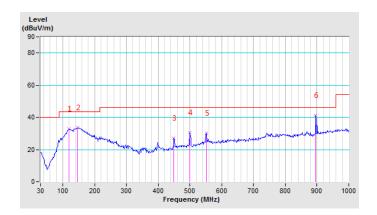
BELOW 1GHz WORST-CASE DATA:

802.11b

CHANNEL	Channel 1	DETECTOR	Quasi Peak (QD)
FREQUENCY RANGE	30MHz ~ 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 (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	120.16	32.70 QP	43.50	-10.80	1.00 H	56	49.20	-16.50	
2	146.59	33.68 QP	43.50	-9.82	1.00 H	135	50.47	-16.79	
3	449.71	27.20 QP	46.00	-18.80	1.00 H	149	35.13	-7.93	
4	499.46	30.52 QP	46.00	-15.48	1.00 H	210	37.10	-6.58	
5	552.31	30.18 QP	46.00	-15.82	1.00 H	224	34.06	-3.88	
6	895.85	41.11 QP	46.00	-4.89	1.00 H	300	39.83	1.28	

- 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.

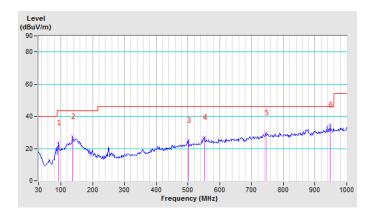




CHANNEL	Channel 1	DETECTOR	Ougoi Pook (OP)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	92.18	23.49 QP	43.50	-20.01	1.00 V	0	42.52	-19.03		
2	137.26	27.34 QP	43.50	-16.16	1.00 V	0	44.62	-17.28		
3	501.01	25.25 QP	46.00	-20.75	1.00 V	0	31.80	-6.55		
4	552.31	27.00 QP	46.00	-19.00	1.00 V	0	30.88	-3.88		
5	745.06	29.69 QP	46.00	-16.31	1.00 V	0	29.69	0.00		
6	947.15	34.76 QP	46.00	-11.24	1.00 V	0	32.29	2.47		

- 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	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	2390.00	64.35 PK	74.00	-9.65	1.00 H	182	61.30	3.05
2	2390.00	46.89 AV	54.00	-7.11	1.00 H	182	43.84	3.05
3	*2412.00	106.69 PK			1.00 H	182	103.60	3.09
4	*2412.00	101.64 AV			1.00 H	182	98.55	3.09
5	4824.00	61.38 PK	74.00	-12.62	1.00 H	145	56.25	5.13
6	4824.00	45.28 AV	54.00	-8.72	1.00 H	145	40.15	5.13
7	#7236.00	66.90 PK	74.00	-7.10	1.10 H	96	54.88	12.02
8	#7236.00	44.69 AV	54.00	-9.31	1.10 H	96	32.67	12.02
		ANTENN/	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	2390.00	38.65 PK	74.00	-35.35	1.00 V	106	35.60	3.05
2	2390.00	31.65 AV	54.00	-22.35	1.00 V	106	28.60	3.05
3	*2412.00	96.29 PK			1.00 V	106	93.20	3.09
4	*2412.00	88.76 AV			1.00 V	106	85.67	3.09
5	4824.00	60.82 PK	74.00	-13.18	1.00 V	104	55.69	5.13
6	4824.00	48.13 AV	54.00	-5.87	1.00 V	104	43.00	5.13
7	#7236.00	56.58 PK	74.00	-17.42	1.00 V	135	44.56	12.02
8	#7236.00	44.20 AV	54.00	-9.80	1.00 V	135	32.18	12.02

- 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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA I	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	*2437.00	106.90 PK			1.00 H	166	103.74	3.16
2	*2437.00	101.65 AV			1.00 H	166	98.49	3.16
3	4874.00	61.50 PK	74.00	-12.50	1.00 H	219	56.28	5.22
4	4874.00	43.31 AV	54.00	-10.69	1.00 H	219	38.09	5.22
5	7311.00	66.30 PK	74.00	-7.70	1.20 H	117	53.99	12.31
6	7311.00	46.10 AV	54.00	-7.90	1.20 H	117	33.79	12.31
		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	*2437.00	100.23 PK			1.00 V	307	97.07	3.16
2	*2437.00	94.90 AV			1.00 V	307	91.74	3.16
3	4874.00	60.76 PK	74.00	-13.24	1.15 V	101	55.54	5.22
4	4874.00	40.02 AV	54.00	-13.98	1.15 V	101	34.80	5.22
5	7311.00	65.76 PK	74.00	-8.24	1.10 V	226	53.45	12.31
6	7311.00	47.20 AV	54.00	-6.80	1.10 V	226	34.89	12.31

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	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	105.67 PK			1.00 H	171	102.45	3.22			
2	*2462.00	100.43 AV			1.00 H	171	97.21	3.22			
3	2483.50	57.24 PK	74.00	-16.76	1.00 H	171	53.97	3.27			
4	2483.50	47.69 AV	54.00	-6.31	1.00 H	171	44.42	3.27			
5	4924.00	61.54 PK	74.00	-12.46	1.50 H	218	56.22	5.32			
6	4924.00	40.32 AV	54.00	-13.68	1.50 H	218	35.00	5.32			
7	7386.00	59.82 PK	74.00	-14.18	1.00 H	168	47.21	12.61			
8	7386.00	47.19 AV	54.00	-6.81	1.00 H	168	34.58	12.61			
		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	*2462.00	101.58 PK			1.30 V	110	98.36	3.22			
2	*2462.00	96.88 AV			1.30 V	110	93.66	3.22			
3	2483.50	56.16 PK	74.00	-17.84	1.30 V	110	52.89	3.27			
4	2483.50	46.17 AV	54.00	-7.83	1.30 V	110	42.90	3.27			
5	4924.00	65.53 PK	74.00	-8.47	1.00 V	92	60.21	5.32			
6	4924.00	43.15 AV	54.00	-10.85	1.00 V	92	37.83	5.32			
7	7386.00	63.45 PK	74.00	-10.55	1.20 V	176	50.84	12.61			
'											

- 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. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 1	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	2390.00	72.17 PK	74.00	-1.83	1.00 H	276	69.12	3.05
2	2390.00	52.74 AV	54.00	-1.26	1.00 H	276	49.69	3.05
3	*2412.00	110.09 PK			1.00 H	276	107.00	3.09
4	*2412.00	100.66 AV			1.00 H	276	97.57	3.09
5	4824.00	52.64 PK	74.00	-21.36	1.00 H	65	47.51	5.13
6	4824.00	39.65 AV	54.00	-14.35	1.00 H	65	34.52	5.13
7	#7236.00	59.38 PK	74.00	-14.62	1.00 H	87	47.36	12.02
8	#7236.00	46.05 AV	54.00	-7.95	1.00 H	87	34.03	12.02
		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	2390.00	54.51 PK	74.00	-19.49	1.00 V	276	51.46	3.05
2	2390.00	37.62 AV	54.00	-16.38	1.00 V	276	34.57	3.05
3	*2412.00	100.85 PK			1.00 V	276	97.76	3.09
4	*2412.00	90.98 AV			1.00 V	276	87.89	3.09
5	4824.00	52.64 PK	74.00	-21.36	1.00 V	65	47.51	5.13
6	4824.00	39.65 AV	54.00	-14.35	1.00 V	65	34.52	5.13
7	#7236.00	59.38 PK	74.00	-14.62	1.00 V	87	47.36	12.02
8	#7236.00	46.05 AV	54.00	-7.95	1.00 V	87	34.03	12.02

- 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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA I	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	*2437.00	109.25 PK			1.00 H	50	106.09	3.16
2	*2437.00	101.25 AV			1.00 H	50	98.09	3.16
3	4874.00	52.69 PK	74.00	-21.31	1.00 H	71	47.47	5.22
4	4874.00	40.25 AV	54.00	-13.75	1.00 H	71	35.03	5.22
5	7311.00	60.28 PK	74.00	-13.72	1.00 H	84	47.97	12.31
6	7311.00	46.32 AV	54.00	-7.68	1.00 H	84	34.01	12.31
		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	*2437.00	103.72 PK			3.99 V	148	100.56	3.16
2	*2437.00	93.45 AV			3.99 V	148	90.29	3.16
3	4874.00	53.84 PK	74.00	-20.16	1.00 V	54	48.62	5.22
4	4874.00	39.25 AV	54.00	-14.75	1.00 V	54	34.03	5.22
5	7311.00	58.36 PK	74.00	-15.64	1.00 V	87	46.05	12.31
6	7311.00	46.54 AV	54.00	-7.46	1.00 V	87	34.23	12.31

- 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	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	*2462.00	109.18 PK			1.00 H	276	105.96	3.22
2	*2462.00	99.08 AV			1.00 H	276	95.86	3.22
3	2483.50	72.05 PK	74.00	-1.95	1.00 H	276	68.78	3.27
4	2483.50	50.08 AV	54.00	-3.92	1.00 H	276	46.81	3.27
5	4924.00	52.55 PK	74.00	-21.45	1.00 H	360	47.23	5.32
6	4924.00	40.58 AV	54.00	-13.42	1.00 H	360	35.26	5.32
7	7386.00	58.65 PK	74.00	-15.35	1.00 H	360	46.04	12.61
8	7386.00	47.12 AV	54.00	-6.88	1.00 H	360	34.51	12.61
_		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	*2462.00	100.44 PK			1.00 V	169	97.22	3.22
2	*2462.00	90.12 AV			1.00 V	169	86.90	3.22
3	2483.50	57.65 PK	74.00	-16.35	1.00 V	169	54.38	3.27
4	2483.50	39.41 AV	54.00	-14.59	1.00 V	169	36.14	3.27
5	4924.00	53.65 PK	74.00	-20.35	1.00 V	74	48.33	5.32
6	4924.00	39.84 AV	54.00	-14.16	1.00 V	74	34.52	5.32
7	7386.00	59.68 PK	74.00	-14.32	1.00 V	87	47.07	12.61
8	7386.00	46.35 AV	54.00	-7.65	1.00 V	87	33.74	12.61

- 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.

4.2 6dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 6DB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,17	May 03,18
Power Sensor	Keysight	U2021XA	MY55060018	May 04,17	May 03,18
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
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, 16	Aug.07, 17
Spectrum Analyzer	Keysight	N9020A	MY55400499	Apr. 05,17	Apr. 04,18
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec.05, 16	Dec. 04, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug.08, 16	Aug.07, 17

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

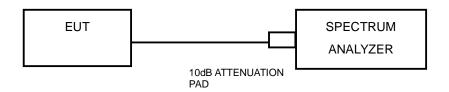
- 1. Set resolution bandwidth (RBW) = 100KHz
- 2. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- 3. Trace mode = max hold.
- 4. Sweep = auto couple.
- 5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and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



4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

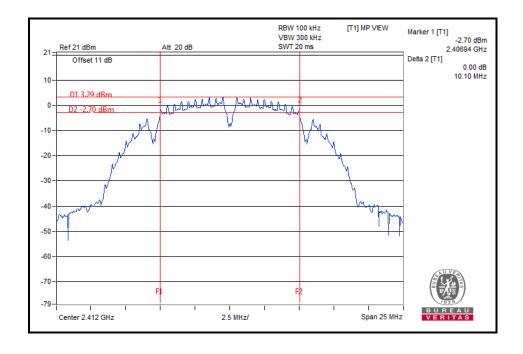
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.2.7 TEST RESULTS

802.11b

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

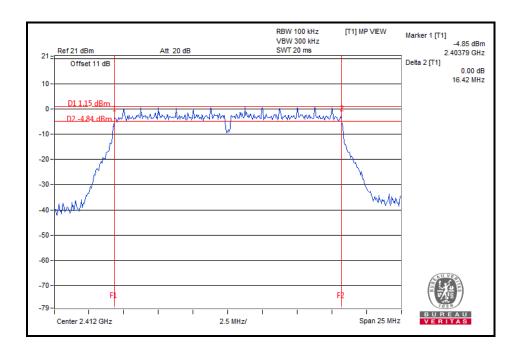




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CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.42	0.5	PASS
6	2437	16.37	0.5	PASS
11	2462	16.37	0.5	PASS

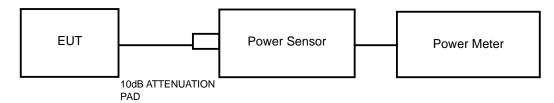


4.3 CONDUCTED OUTPUT POWER

4.3.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,17	May 03,18
Power Sensor	Keysight	U2021XA	MY55060018	May 04,17	May 03,18
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
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, 16	Aug.07, 17
Spectrum Analyzer	Keysight	N9020A	MY55400499	Apr. 05,17	Apr. 04,18
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec.05, 16	Dec. 04, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug.08, 16	Aug.07, 17

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.



4.3.4 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.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

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

4.3.7.1 MAXIMUM PEAK OUTPUT POWER

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	15.33	34.119	1	PASS
6	2437	15.62	36.475	1	PASS
11	2462	15.54	35.810	1	PASS

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CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	20.15	103.514	1	PASS
6	2437	19.93	98.401	1	PASS
11	2462	20.07	101.625	1	PASS

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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.

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CHANNEL	INEL CHANNEL AVERAGE POWER (dBm)		AVERAGE POWER (mW)	
1	2412	12.41	17.418	
6	2437	12.78	18.967	
11	2462	12.35	17.179	

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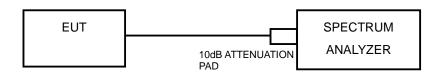
CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)
1	2412	12.00	15.849
6	2437	12.16	16.444
11	2462	12.38	17.298

4.4 POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

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

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.4.4 TEST PROCEDURE

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: 3 kHz
- d) Set VBW ≥3 x RBW.
- e) Detector = peak.
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- g) Sweep time = auto couple.
- h) Use the peak marker function to determine the maximum amplitude level.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.



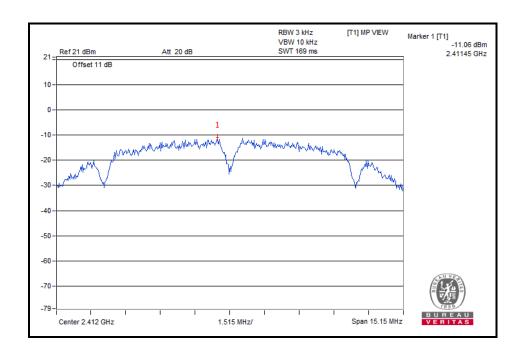
4.4.6 EUT OPERATING CONDITION

Same as item 4.3.6

4.4.7 TEST RESULTS

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Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-11.06	8	PASS
6	2437	-11.58	8	PASS
11	2462	-11.15	8	PASS

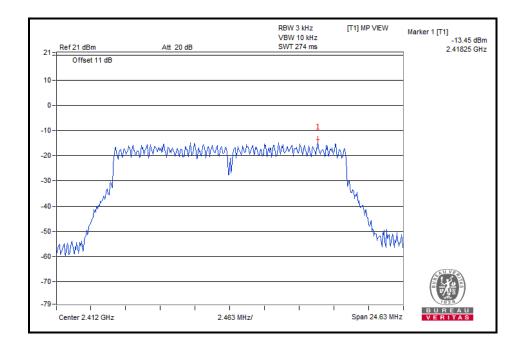


Town, Dongguan City,



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Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.45	8	PASS
6	2437	-14.83	8	PASS
11	2462	-14.45	8	PASS



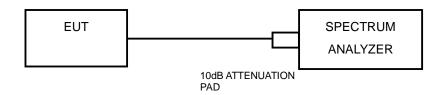


4.5 OUT OF BAND EMISSION MEASUREMENT

4.5.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

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

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

Measurement Procedure - Reference Level

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

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

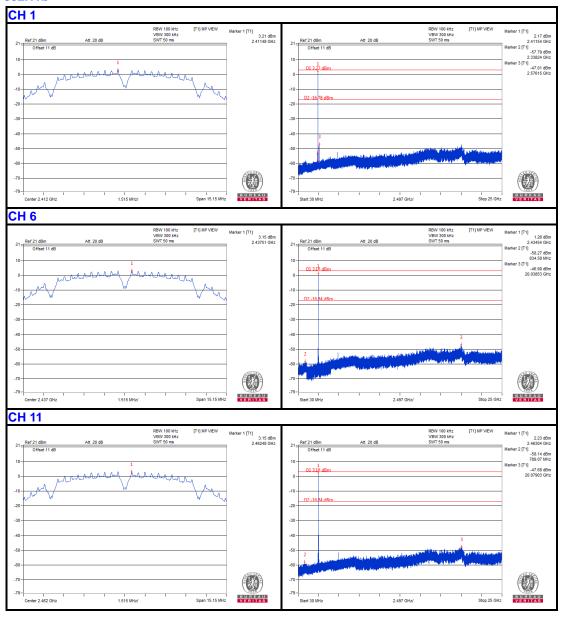
Same as item 4.2.6

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4.5.7 TEST RESULTS

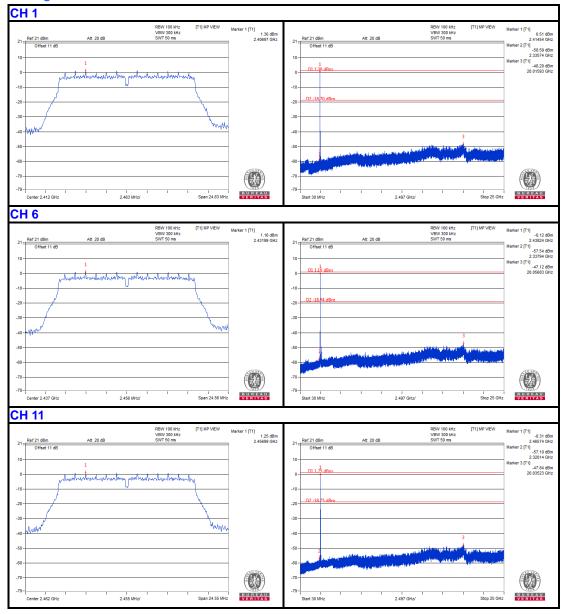
802.11b





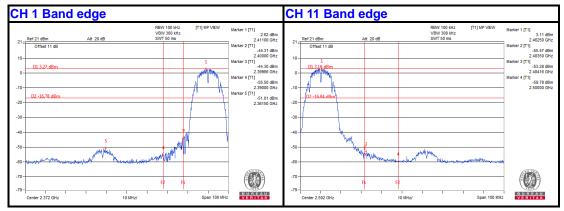
BUREAU VERITAS Test Report No.: RF170314N100-1

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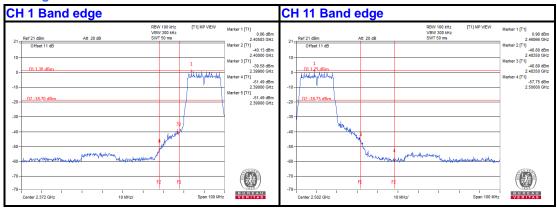




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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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---