



**BUREAU
VERITAS**

Test Report No.: RF160506N033-2



Test Lab
Cert 2951.01

TEST REPORT

Applicant:	WECCAN INDUSTRIAL LIMITED
Address:	Rm209, 2/F, Building W1-A, No34 Gaoxin South 4th Street, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China

Manufacturer or Supplier	WECCAN INDUSTRIAL LIMITED
Address	Rm209, 2/F, Building W1-A, No34 Gaoxin South 4th Street, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China
Product:	2.4G 4.5CH drone with camera
Brand Name:	Weccan
Model:	5F63ECA
Additional Model & Model Difference	DRC376R, DRW607, SG-F48, SG-F49, SG-F18, etc; See items 3.1
Date of tests:	May 06, 2016 ~ May 30, 2016

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

FCC Part 15, Subpart C, Section 15.249(2015-10)

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

Tested by Madison Luo
Project Engineer / EMC Department

Approved by Chris Chen
Manager / EMC Department

Date: May 30, 2016

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF160506N033-2	Original release	May 30, 2016



1 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	PASS	Compliant
§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

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	3.93dB
Radiated emissions	30MHz ~ 1GHz	3.62dB
	1GHz ~ 18GHz	5.03dB
	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	2.4G 4.5CH drone with camera
MODEL NO.	5F63ECA
ADDITIONAL MODELS	DRC376R, DRW607, SG-F48, SG-F49, SG-F18, SG-F30, SG-F31, SG-F32, SG-F33, SG-F35, SG-F25, SG-F26, SG-F27, SG-F28, SG-F29, SG-F36, SG-F37, SG-F38, SG-F39, SG-F50, SG-F51, SG-F52, SG-F53, SG-F55, SG-F56, SG-F57, SG-F58, SG-59, SG-F60, SG-F61, SG-F62, SG-F63, SG-F65, SG-F66, SG-F67, SG-F68, SG-F69, SG-F70, SG-F71, SG-F72, SG-F73, SG-F75, SG-F76, SG-F78, SG-F79, SG-F80, SG-F81, SG-F82, SG-F83, SG-F85, SG-F86, SG-F87, SG-F88, SG-F89, SG-F90, SG-F91, SG-F92, SG-F93, SG-F95, SG-F96, SG-F97, SG-F98, SG-F99
FCC ID	Z3CWECCAN-CAMERA
NOMINAL VOLTAGE	DC 3.7V From Battery or DC 5V from USB port
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2410-2475MHz
ANTENNA TYPE	Wire Antenna, with 2dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Cable: Unshielded, detachable, 0.82m

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.: 160506N033-2) for detailed product photo.
4. Additional models (see above table) are identical with the test model 5F63ECA except the model no., appearance and the logo for trading purpose.



3.2 DESCRIPTION OF TEST MODES

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	BW	
A	√	√	-	√	DC 3.7V From New Battery
B	-	-	√	-	DC 5V From USB

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

RE≥1G: Radiated Emission above 1GHz
BW: 20db bandwidth

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

TESTED CHANNEL	TESTED FREQUENCY
Low	2410 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	24deg. C, 57%RH	DC 3.7V From New Battery	Kery He
BW	25deg. C, 55%RH	DC 3.7V From New Battery	Madison Luo
PLC	25deg. C, 60%RH	DC 5V From USB	David Wang



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(2015-10)

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 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	Notebook	DELL	E6420	9H12FS1	N/A
2	Mouse	Lenovo	MSU1175	12L12701085DN	N/A
3	Printer	Lenovo	LJ2200L	LP02857415 48001408	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	USB Line: Unshielded, Detachable 1.8m
3	USB Line: Unshielded, Detachable 1.5m

NOTE: All power cords of the above support units are non-shielded (1.8m).



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	ESR7	101588	Jan. 22,16	Jan. 21,17
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 04,16	Mar. 03,17
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,16	Apr. 04,17
Voltage probe	SCHWARZBEC K	TK 9421	TK 9421-176	Jan. 08,16	Jan. 07,17
Test software	ADT	ADT_Cond_V 7.3.7	N/A	N/A	N/A

- NOTE:**
1. The test was performed at 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.

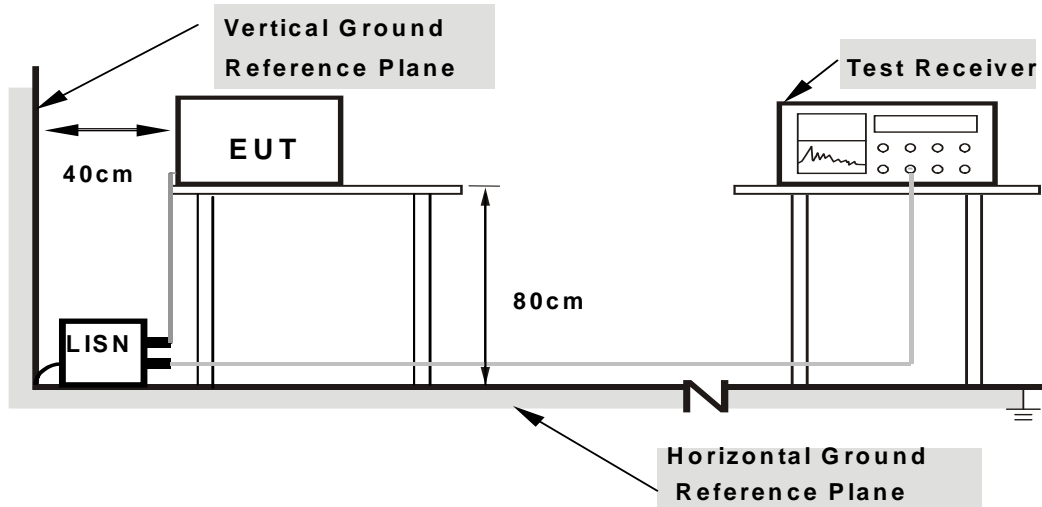
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

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
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

Set the EUT under transmission condition continuously at specific channel frequency.



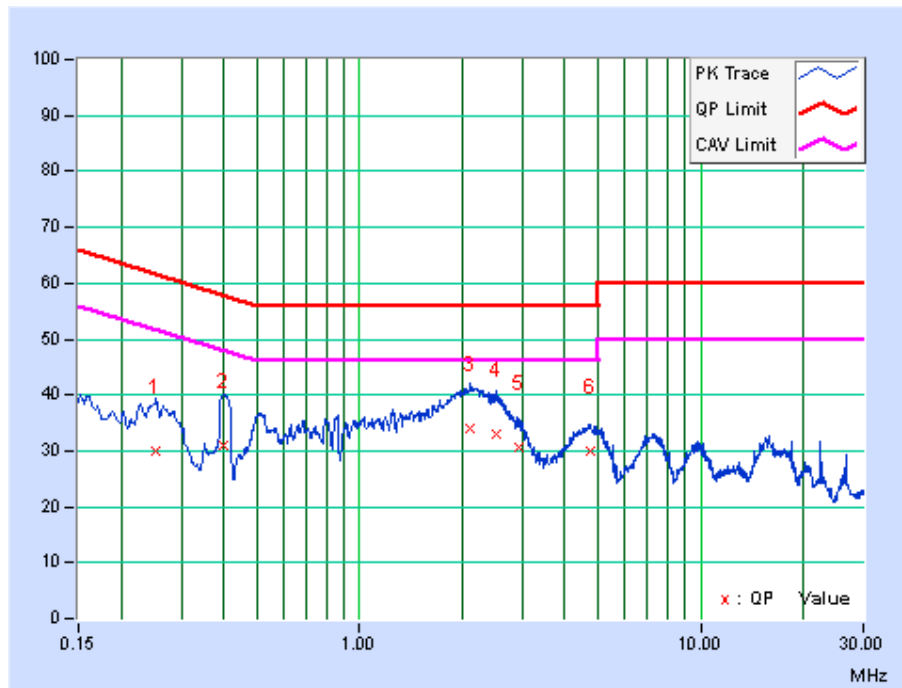
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA

PHASE	Line 1	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	0.25344	10.04	19.89	15.85	29.93	25.89	61.64	51.64	-31.72	-25.76
2	0.39701	10.10	20.96	4.40	31.06	14.50	57.92	47.92	-26.86	-33.42
3	2.11875	10.14	23.92	16.86	34.06	27.00	56.00	46.00	-21.94	-19.00
4	2.51700	10.14	22.91	12.51	33.05	22.65	56.00	46.00	-22.95	-23.35
5	2.94900	10.14	20.59	5.47	30.73	15.61	56.00	46.00	-25.27	-30.39
6	4.74000	10.15	19.97	10.20	30.12	20.35	56.00	46.00	-25.88	-25.65

- 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
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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	0.15924	9.82	26.53	18.16	36.35	27.98	65.50	55.50	-29.15	-27.52
2	0.19056	9.82	22.54	16.74	32.36	26.56	64.01	54.01	-31.65	-27.45
3	0.44357	9.83	26.77	25.66	36.60	35.49	56.99	46.99	-20.39	-11.50
4	1.85552	9.84	19.12	13.71	28.96	23.55	56.00	46.00	-27.04	-22.45
5	5.98425	10.00	15.55	8.89	25.55	18.89	60.00	50.00	-34.45	-31.11
6	14.33625	10.15	15.43	12.26	25.58	22.41	60.00	50.00	-34.42	-27.59

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

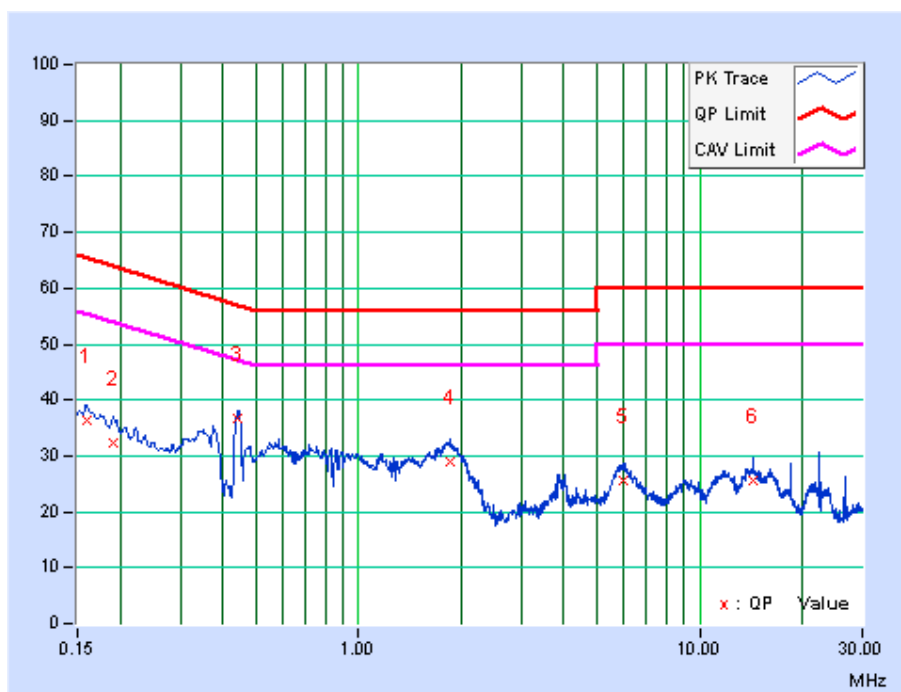
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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

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.



4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,16	Apr. 04,17
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 09,15	Nov. 08,16
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 16, 15	Jul. 15, 16
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 30, 15	May 29, 17
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Aug. 08, 14	Aug. 07, 16
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar. 12,16	Mar. 11,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,16	Mar. 03, 17
Pre-Amplifier(1-18G)	HP	8449B	3008A00409	Apr. 25,16	Apr. 24,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 20,15	Nov. 19,16
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 01,15	Aug. 31,16

NOTE:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments are 12, 24 or 36 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 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. 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:

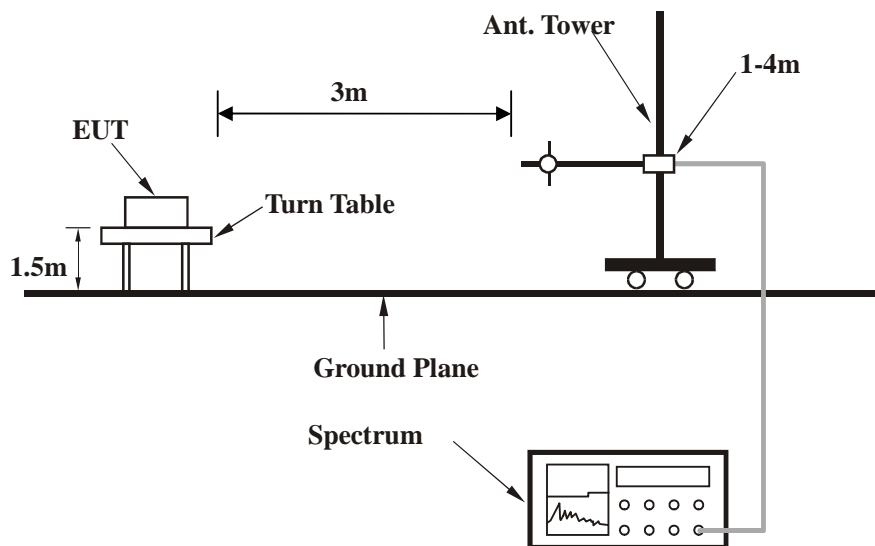
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution 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.



4.2.4 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

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



4.2.7 TEST RESULTS

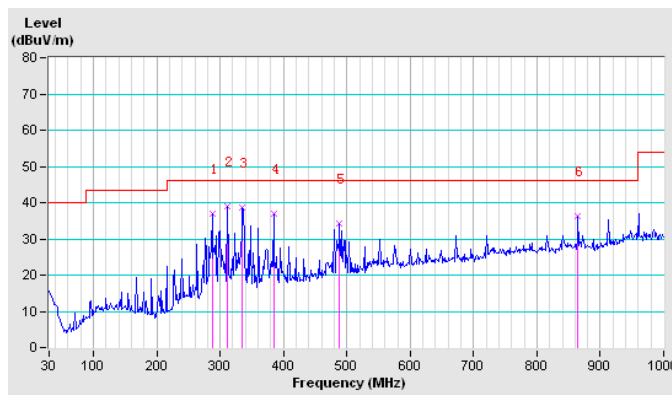
BELOW 1GHz WORST-CASE DATA

CHANNEL	TX Middle Channel	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	287.26	37.07	46.00	-8.93	100	0	51.98	-14.91
2	311.16	39.05	46.00	-6.95	100	0	52.82	-13.77
3	335.06	38.65	46.00	-7.35	100	0	52.04	-13.39
4	384.26	36.89	46.00	-9.11	100	0	48.40	-11.51
5	488.29	34.17	46.00	-11.83	100	0	42.15	-7.98
6	865.04	36.31	46.00	-9.69	100	0	36.96	-0.65

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.



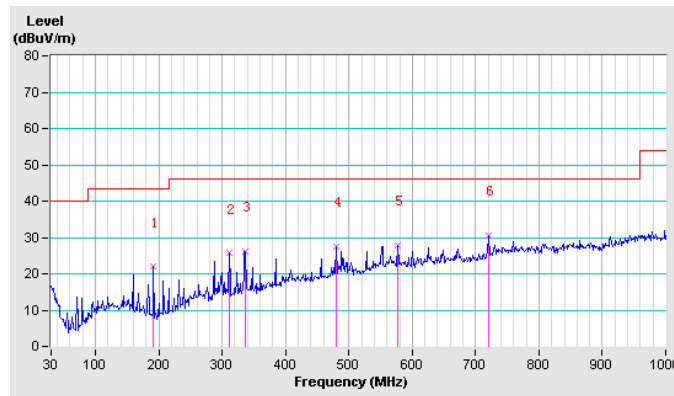


CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	191.67	21.90	43.50	-21.60	200	0	41.98	-20.08
2	311.16	25.61	46.00	-20.39	100	0	39.38	-13.77
3	336.46	26.24	46.00	-19.76	100	0	39.57	-13.33
4	479.86	27.61	46.00	-18.39	100	0	35.91	-8.30
5	576.86	27.93	46.00	-18.07	100	0	33.23	-5.30
6	720.25	30.55	46.00	-15.45	100	0	33.48	-2.93

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 WORST-CASE DATA:**

CHANNEL	TX Low Channel	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	2400.00	62.8 PK	74.0	-11.2	1.49 H	228	59.20	3.60
2	2400.00	49.3 AV	54.0	-4.7	1.49 H	228	45.70	3.60
3	2410.00	104.0 PK	114.0	-10.0	1.49 H	228	100.30	3.70
4	2410.00	90.5 AV	94.0	-3.5	1.49 H	228	86.80	3.70
5	4820.00	62.5 PK	74.0	-11.5	1.14 H	242	54.00	8.50
6	4820.00	49.0 AV	54.0	-5.0	1.14 H	242	40.50	8.50
7	7230.00	49.2 PK	74.0	-24.8	1.91 H	103	34.10	15.10
8	7230.00	35.7 AV	54.0	-18.3	1.91 H	103	20.60	15.10
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	2400.00	55.4 PK	74.0	-18.6	1.17 V	256	51.80	3.60
2	2400.00	41.9 AV	54.0	-12.1	1.17 V	256	38.30	3.60
3	2410.00	95.4 PK	114.0	-18.6	1.17 V	256	91.70	3.70
4	2410.00	81.9 AV	94.0	-12.1	1.17 V	256	78.20	3.70
5	4820.00	47.8 PK	74.0	-26.2	1.15 V	334	39.30	8.50
6	4820.00	34.3 AV	54.0	-19.7	1.15 V	334	25.80	8.50
7	7230.00	50.3 PK	74.0	-23.7	1.03 V	204	35.20	15.10
8	7230.00	36.8 AV	54.0	-17.2	1.03 V	204	21.70	15.10

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 Middle Channel	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	2433.00	104.1 PK	114.0	-9.9	1.00 H	210	100.40	3.70
2	2433.00	90.6 AV	94.0	-3.4	1.00 H	210	86.90	3.70
3	4866.00	61.9 PK	74.0	-12.1	1.37 H	212	53.30	8.60
4	4866.00	49.4 AV	54.0	-4.6	1.37 H	212	40.80	8.60
5	7299.00	49.4 PK	74.0	-24.6	1.36 H	104	34.10	15.30
6	7299.00	35.9 AV	54.0	-18.1	1.36 H	104	20.60	15.30
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	2433.00	96.2 PK	114.0	-17.8	1.00 V	264	92.50	3.70
2	2433.00	82.7 AV	94.0	-11.3	1.00 V	264	79.00	3.70
3	4866.00	46.3 PK	74.0	-27.7	1.14 V	22	37.70	8.60
4	4866.00	32.8 AV	54.0	-21.2	1.14 V	22	24.20	8.60
5	7299.00	49.1 PK	74.0	-24.9	1.36 V	278	33.80	15.30
6	7299.00	35.6 AV	54.0	-18.4	1.36 V	278	20.30	15.30

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 High Channel	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	2475.00	101.7 PK	114.0	-12.3	1.09 H	184	97.80	3.90
2	2475.00	88.2 AV	94.0	-5.8	1.09 H	184	84.30	3.90
3	2483.50	63.3 PK	74.0	-10.7	1.84 H	184	59.30	4.00
4	2483.50	49.8 AV	54.0	-4.2	1.84 H	184	45.80	4.00
5	4950.00	56.2 PK	74.0	-17.8	1.03 H	69	47.50	8.70
6	4950.00	42.7 AV	54.0	-11.3	1.03 H	69	34.00	8.70
7	7425.00	49.9 PK	74.0	-24.1	1.95 H	21	34.10	15.80
8	7425.00	36.4 AV	54.0	-17.6	1.95 H	21	20.60	15.80

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	2475.00	94.5 PK	114.0	-19.5	1.99 V	181	90.60	3.90
2	2475.00	81.0 AV	94.0	-13.0	1.99 V	181	77.10	3.90
3	2483.50	56.3 PK	74.0	-17.7	1.99 V	181	52.30	4.00
4	2483.50	42.8 AV	54.0	-11.2	1.99 V	181	38.80	4.00
5	4950.00	52.4 PK	74.0	-21.6	1.00 V	254	43.70	8.70
6	4950.00	38.9 AV	54.0	-15.1	1.00 V	254	30.20	8.70
7	7425.00	51.3 PK	74.0	-22.7	1.36 V	51	35.50	15.80
8	7425.00	37.8 AV	54.0	-16.2	1.36 V	51	22.00	15.80

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.



4.3 20dB BANDWIDTH MEASUREMENT

4.3.1 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.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Feb. 18,16	Feb. 17,17
Power Sensor	Keysight	U2021XA	MY55060018	Feb. 18,16	Feb. 17,17
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 12, 15	Oct.11, 16
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.07,15	Sep. 06,16
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 28,15	Nov. 27,16
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 09,15	Nov. 08,16
Signal Generator	Agilent	N5183A	MY50140980	Nov. 09,15	Nov. 08,16
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Apr. 22, 16	Apr. 21, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 01,15	Aug. 31,16

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.

4.3.3 TEST PROCEDURE

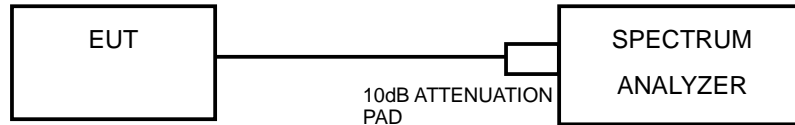
- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the 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.



4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

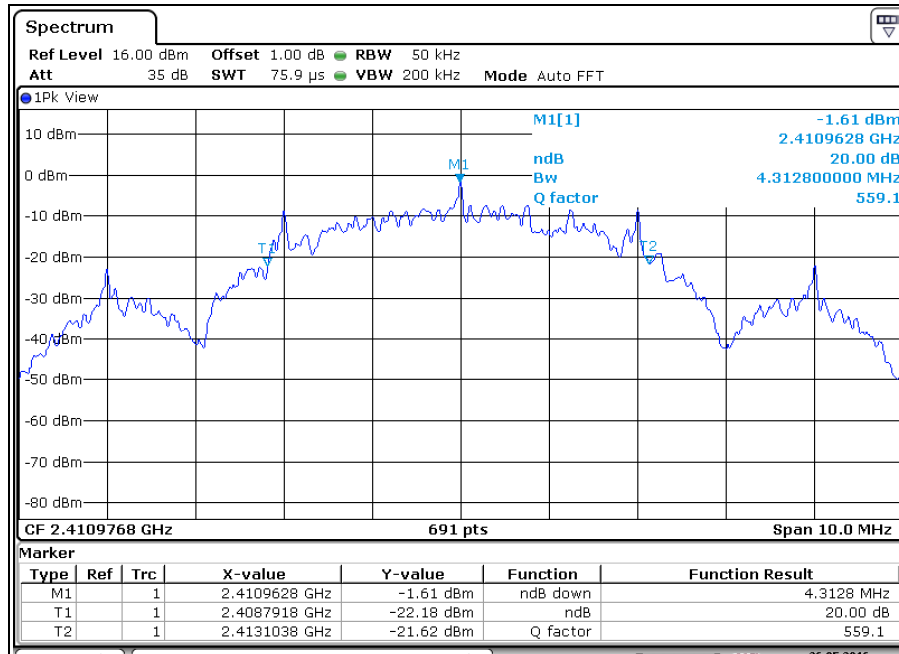
- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

4.3.7 TEST RESULTS

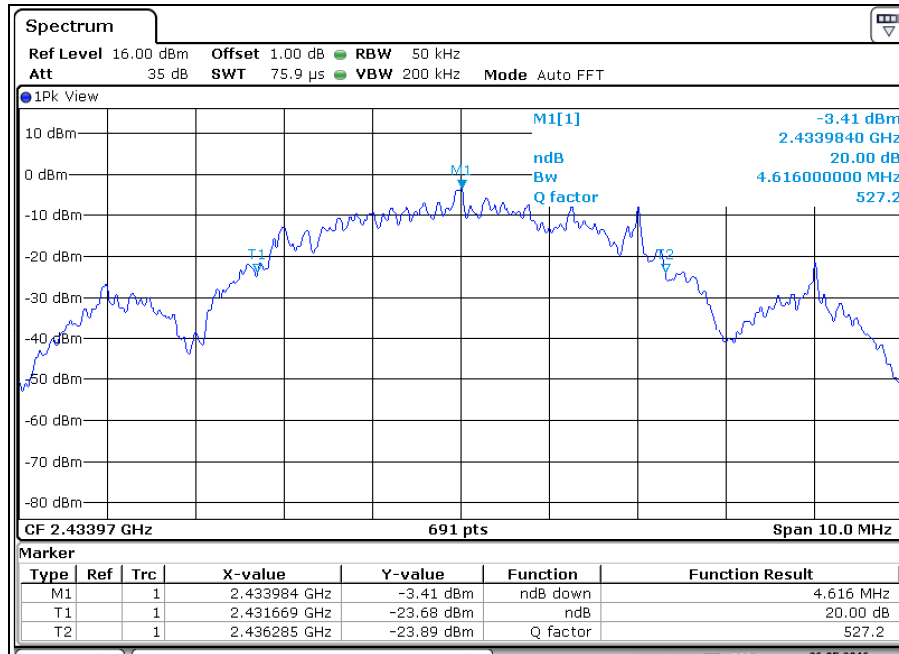
CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2410	4.3128
Middle	2433	4.6160
High	2475	4.4570



Test Data: Low channel



Test Data: Middle channel

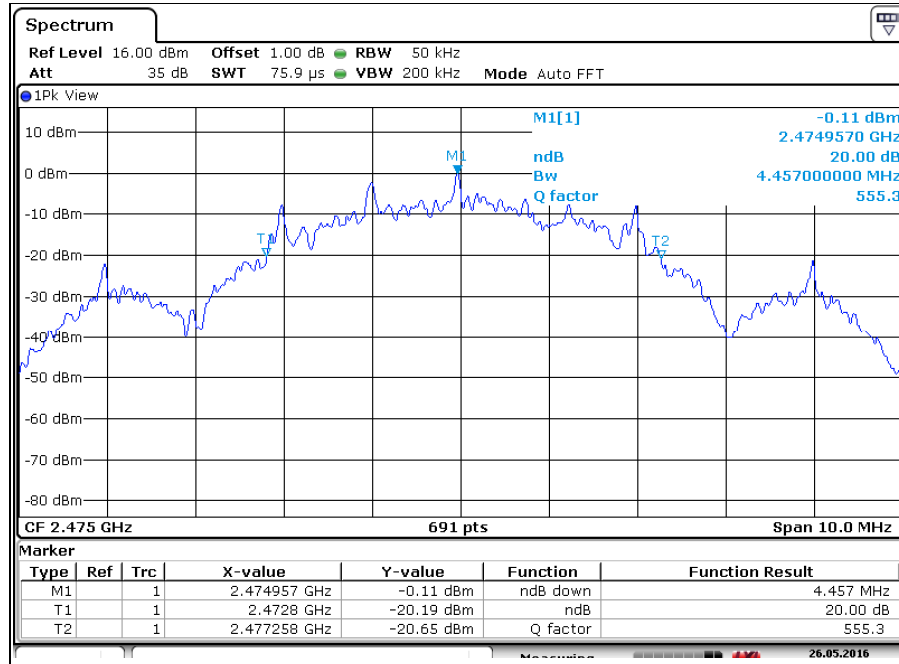




**BUREAU
VERITAS**

Test Report No.: RF160506N033-2

Test Data: High channel



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



BUREAU Test Report No.: RF160506N033-2
VERITAS

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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VERITAS

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---