







TEST REPORT

Applicant:	Grandex International Development Ltd
Address:	Unit 2401, Million Fortune Ind Ctr., 34-36 Chai Wan Kok Street., Tsuen Wan Hong Kong

Manufacturer or Supplier	Grandex International Development Ltd
Address	Unit 2401, Million Fortune Ind Ctr., 34-36 Chai Wan Kok Street., Tsuen Wan Hong Kong
Product:	R/C Vehicle
Brand Name:	N/A
Model:	61263
Additional Model & Model Difference	N/A
Date of tests:	May 07, 2019 ~ May 23, 2019

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

FCC Part 15, Subpart C, Section 15.249

Tested by Tom Chen

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

Project Engineer / EMC Department	Supervisor / EMC Department
Tom	A
	Date: May 27 2019

Date: May 27, 2019

Approved by Glyn He

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Dongguan Branch



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190507N018	Original release	May 27, 2019

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SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

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

MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY		
	9KHz ~ 30MHz	2.90dB		
Radiated emissions	30MHz ~ 1GMHz	3.76dB		
Nadiated emissions	1GHz ~ 18GHz	4.84dB		
	18GHz ~ 40GHz	4.96dB		

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

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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	R/C Vehicle
MODEL NO.	61263
ADDITIONAL MODEL	N/A
FCC ID	VC961263240
NOMINAL VOLTAGE	DC 3V (1.5V*AA*2) from battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2405-2480MHz
ANTENNA TYPE	Wire Antenna, with 0dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

- 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.: 190507N018) for detailed product photo.



3.2 DESCRIPTION OF TEST MODES

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

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION	
MODE	RE<1G	RE≥1G	PLC	DESCRIPTION	DESCRIPTION	
А	√	√	-	\checkmark	DC 3.0V from New Battery	

Where

RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission BW: 20db bandwidth

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

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

TESTED CHANNEL	TESTED FREQUENCY
Low	2405 MHz
Middle	2448 MHz
High	2480 MHz

Channel List

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2405	19	2424	37	2442	55	2460
2	2407	20	2425	38	2443	56	2461
3	2408	21	2426	39	2444	57	2462
4	2409	22	2427	40	2445	58	2463
5	2410	23	2428	41	2446	59	2464
6	2411	24	2429	42	2447	60	2465
7	2412	25	2430	43	2448	61	2466
8	2413	26	2431	44	2449	62	2467
9	2414	27	2432	45	2450	63	2468
10	2415	28	2433	46	2451	64	2469
11	2416	29	2434	47	2452	65	2470
12	2417	30	2435	48	2453	66	2471
13	2418	31	2436	49	2454	67	2472
14	2419	32	2437	50	2455	68	2473
15	2420	33	2438	51	2456	69	2474
16	2421	34	2439	52	2457	70	2475
17	2422	35	2440	53	2458	71	2480
18	2423	36	2441	54	2459		

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

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TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE	25deg. C, 55%RH	DC 3.0V from New Battery	Daniel
BW	25deg. C, 55%RH	DC 3.0V from New Battery	Daniel
PLC	-	-	-

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

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

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TEST TYPES AND RESULTS

RADIATED EMISSION MEASUREMENT 4.1

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

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

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

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

NOTES:

- 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.



4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 12,19	Mar. 11,20
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Aug. 02,18	Aug. 01,19
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 04,19	May 03,20
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Apr. 17,19	Apr. 18,20
Bilog Antenna (20MHz -2GHz)	Teseq	CBL 6111D	30643	Aug. 11, 18	Aug. 10, 19
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	Jul. 21, 18	Jul. 20, 19
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	May 05,19	May 04,20
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Feb. 10,19	Feb. 09,20
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 17,19	Apr. 18,20
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 09,18	Nov. 08,19
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

NOTES:

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

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4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. 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.

NOTES:

- 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.

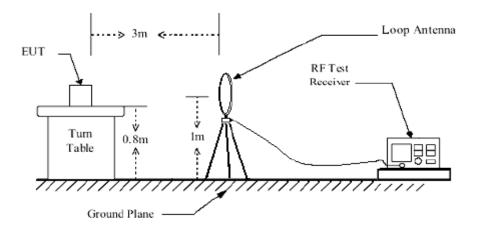
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

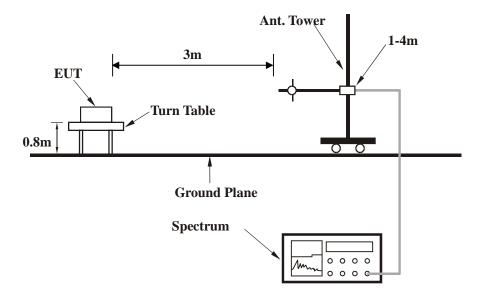


4.1.5 TEST SETUP

Below 30MHz test setup



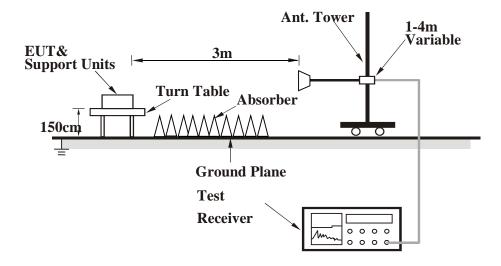
Below 1GHz test setup



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Above 1GHz test setup



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

4.1.6 EUT OPERATING CONDITIONS

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



4.1.7 TEST RESULTS

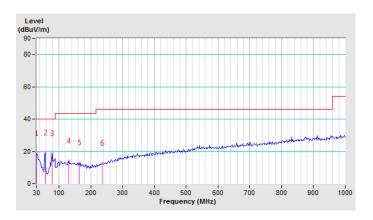
BELOW 1GHz WORST-CASE DATA

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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	30.00	18.53 QP	40.00	-21.47	1.00 H	158	28.63	-10.10	
2	56.43	18.89 QP	40.00	-21.11	1.00 H	103	41.68	-22.79	
3	78.19	18.70 QP	40.00	-21.30	1.00 H	185	40.13	-21.43	
4	131.04	13.92 QP	43.50	-29.58	1.00 H	65	30.09	-16.17	
5	163.69	13.04 QP	43.50	-30.46	1.00 H	144	29.79	-16.75	
6	235.19	12.48 QP	46.00	-33.52	1.00 H	175	28.73	-16.25	

REMARK:

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



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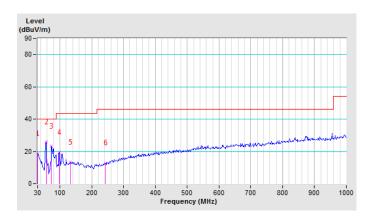


CHANNEL	TX Middle Channel	DETECTOR	Ougai Book (OD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	30.00	18.83 QP	40.00	-21.17	1.00 V	16	28.93	-10.10	
2	56.43	25.96 QP	40.00	-14.04	1.00 V	129	48.75	-22.79	
3	73.53	23.21 QP	40.00	-16.79	1.00 V	55	45.30	-22.09	
4	98.40	19.38 QP	43.50	-24.12	1.00 V	142	37.60	-18.22	
5	132.60	13.35 QP	43.50	-30.15	1.00 V	114	29.48	-16.13	
6	242.96	12.75 QP	46.00	-33.25	1.00 V	100	28.48	-15.73	

REMARK:

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



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ABOVE 1GHz WORST-CASE DATA:

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

		ANITENINIA I	DOL ADITY	. TEOT DIO	TANIOE 110	DIZONITAL	47014	
	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	54.05 PK	74.00	-19.95	1.00 H	205	51.69	2.36
2	2400.00	39.05 AV	54.00	-14.95	1.00 H	205	36.69	2.36
3	*2405.00	83.08 PK	114.00	-30.92	1.00 H	209	80.68	2.40
4	*2405.00	68.08 AV	94.00	-25.92	1.00 H	209	65.68	2.40
5	4810.00	51.33 PK	74.00	-22.67	1.00 H	59	46.24	5.09
6	4810.00	36.33 AV	54.00	-17.67	1.00 H	59	31.24	5.09
7	7215.00	50.39 PK	74.00	-23.61	1.00 H	0	41.07	9.32
8	7215.00	35.39 AV	54.00	-18.61	1.00 H	0	26.07	9.32
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2400.00	51.87 PK	74.00	-22.13	1.00 V	201	49.51	2.36
2	2400.00	36.87 AV	54.00	-17.13	1.00 V	201	34.51	2.36
3	*2405.00	80.28 PK	114.00	-33.72	1.00 V	201	77.88	2.40
4	*2405.00	65.28 AV	94.00	-28.72	1.00 V	201	62.88	2.40
5	4810.00	50.70 PK	74.00	-23.30	1.00 V	82	45.61	5.09
6	4810.00	35.70 AV	54.00	-18.30	1.00 V	82	30.61	5.09
7	7215.00	49.32 PK	74.00	-24.68	1.00 V	329	40.00	9.32
8	7215.00	34.32 AV	54.00	-19.68	1.00 V	329	25.00	9.32

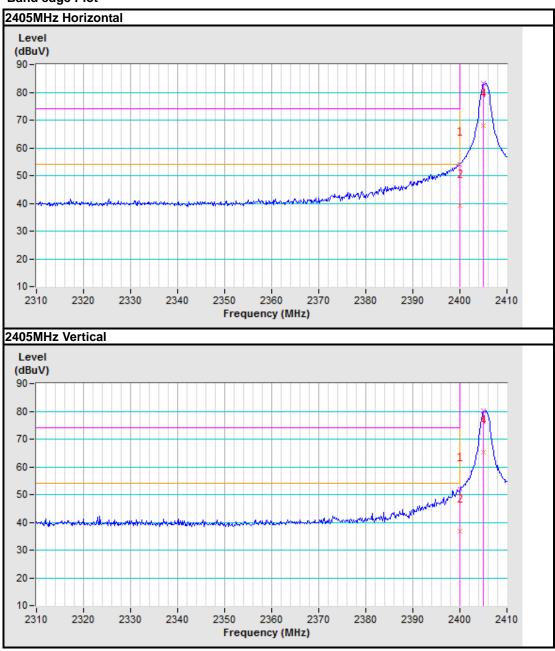
REMARK:

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

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Band edge Plot



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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2448.00	82.39 PK	114.00	-31.61	1.00 H	147	79.70	2.69
2	*2448.00	67.39 AV	94.00	-26.61	1.00 H	147	64.70	2.69
3	4896.00	54.18 PK	74.00	-19.82	1.00 H	260	48.88	5.30
4	4896.00	39.18 AV	54.00	-14.82	1.00 H	260	33.88	5.30
5	7344.00	50.15 PK	74.00	-23.85	1.00 H	72	40.68	9.47
6	7344.00	35.15 AV	54.00	-18.85	1.00 H	72	25.68	9.47
		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	*2448.00	78.09 PK	114.00	-35.91	1.00 V	145	75.40	2.69
2	*2448.00	63.09 AV	94.00	-30.91	1.00 V	145	60.40	2.69
3	4896.00	53.66 PK	74.00	-20.34	1.00 V	153	48.36	5.30
4	4896.00	38.66 AV	54.00	-15.34	1.00 V	153	33.36	5.30
5	7344.00	49.86 PK	74.00	-24.14	1.00 V	0	40.39	9.47
6	7344.00	34.86 AV	54.00	-19.14	1.00 V	0	25.39	9.47

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	83.41 PK	114.00	-30.59	1.00 H	229	80.50	2.91
2	*2480.00	68.41 AV	94.00	-25.59	1.00 H	229	65.50	2.91
3	2483.50	60.06 PK	74.00	-13.94	1.00 H	229	57.13	2.93
4	2483.50	45.06 AV	54.00	-8.94	1.00 H	229	42.13	2.93
5	4960.00	53.75 PK	74.00	-20.25	1.00 H	95	48.29	5.46
6	4960.00	38.75 AV	54.00	-15.25	1.00 H	95	33.29	5.46
7	7440.00	50.03 PK	74.00	-23.97	1.00 H	225	40.44	9.59
8	7440.00	35.03 AV	54.00	-18.97	1.00 H	225	25.44	9.59
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	*2480.00	81.31 PK	114.00	-32.69	1.00 V	158	78.40	2.91
2	*2480.00	66.31 AV	94.00	-27.69	1.00 V	158	63.40	2.91
3	2483.50	57.84 PK	74.00	-16.16	1.00 V	158	54.91	2.93
4	2483.50	42.84 AV	54.00	-11.16	1.00 V	158	39.91	2.93
5	4960.00	51.31 PK	74.00	-22.69	1.00 V	72	45.85	5.46
6	4960.00	36.35 AV	54.00	-17.65	1.00 V	72	30.89	5.46
7	7440.00	50.35 PK	74.00	-23.65	1.00 V	271	40.76	9.59
8	7440.00	35.35 AV	54.00	-18.65	1.00 V	271	25.76	9.59

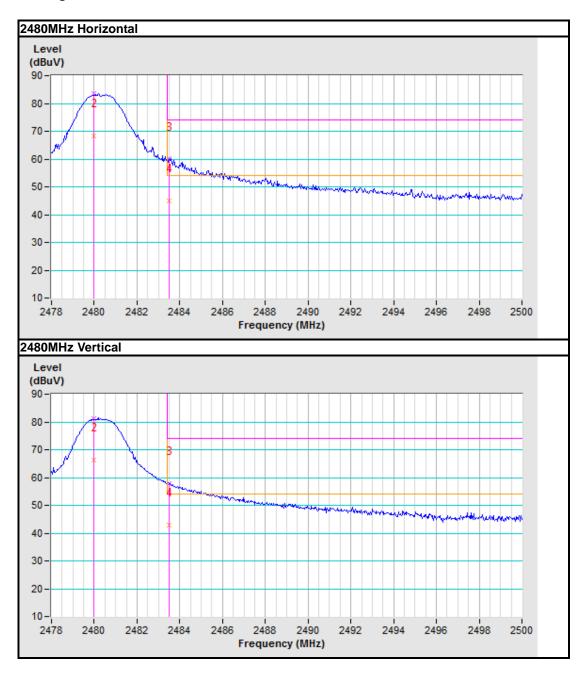
REMARKS:

- 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 emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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Band edge Plot



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4.2 20dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

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

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Jun. 13,18	Jun. 12,19
Power Sensor	Keysight	U2021XA	MY55060018	Jun. 13,18	Jun. 12,19
Power Meter	Anritsu	ML2495A	1139001	Mar. 12,19	Mar. 11,20
Power Sensor	Anritsu	MA2411B	1531155	Mar. 12,19	Mar. 11,20
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 17, 18	Oct.16, 19
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Nov.15,18	Nov. 14,19
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 09,18	Nov. 08,19
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Aug. 02,18	Aug. 01,19
Signal Generator	Agilent	N5183A	MY50140980	Dec. 07,18	Dec. 06,19
Agile Signal Generator	Agilent	8645A	Agilent	Oct.27, 18	Oct.26, 19
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 12,19	Mar. 11,20
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec. 07, 18	Dec. 06, 19
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

NOTES:

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



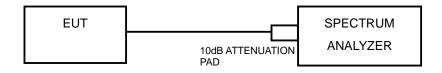
4.2.3 TEST PROCEDURE

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

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

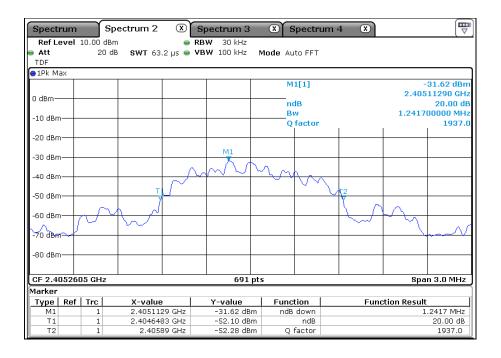
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4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)	
Low	2405	1.2417	
Middle	2448	1.2417	
High	2480	1.2417	

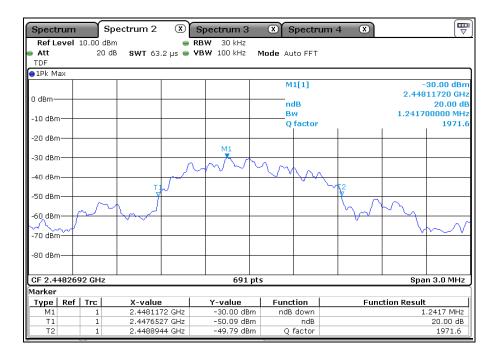
Test Data: Low channel



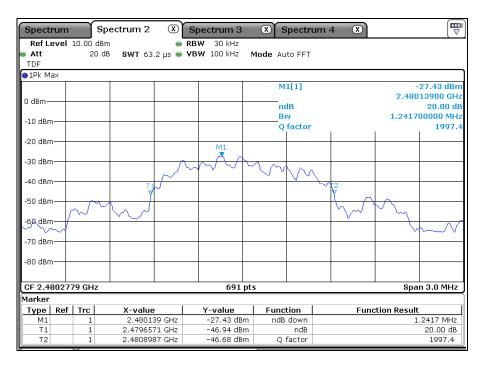
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Test Data: Middle channel



Test Data: High channel



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PHOTOGRAPHS OF THE TEST CONFIGURATION 5.

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

Email: customerservice.dg@cn.bureauveritas.com

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

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

---END---

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