



FCC TEST REPORT

**Test report
On Behalf of
QIANKUN TOYS FACTORY
For
Remote control car series
Model No.: 112411, 112412, 20298
FCC ID: 2AT4G-112411**

Prepared for : QIANKUN TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.
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Date of Test: Mar. 11, 2020 ~ Mar. 25, 2020
Date of Report: Mar. 25, 2020
Report Number: HK2003200436-E



TEST RESULT CERTIFICATION

Applicant's name : QIANKUN TOYS FACTORY
Address : CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
Manufacture's Name..... : QIANKUN TOYS FACTORY
Address : CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

Product description

Trade Mark: N/A
Product name : Remote control car series
Model and/or type reference : 112411, 112412, 20298
 FCC Rules and Regulations Part 15 Subpart C Section 15.249
Standards : ANSI C63.10: 2013

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Date of Test.....:

Date (s) of performance of tests : Mar. 11, 2020 ~ Mar. 25, 2020
Date of Issue..... : Mar. 25, 2020
Test Result : **Pass**

Testing Engineer : Gary Qian
 (Gary Qian)

Technical Manager : Eden Hu
 (Eden Hu)

Authorized Signatory : Jason Zhou
 (Jason Zhou)



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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST		RESULT
CONDUCTED EMISSIONS TEST	§ 15.207	N/A
RADIATED EMISSION TEST	§ 15.249 (a) (d)/ §15.209	COMPLIANT
BAND EDGE	§ 15.249 (a) (d)/ §15.209	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	§ 15.215 (c)	COMPLIANT
ANTENNA REQUIREMENT	§ 15.203	COMPLIANT

1.2 TEST FACILITY

Test Firm : Shenzhen HUAKE Testing Technology Co., Ltd.

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Remote control car series
Model Name	112411
Serial Model	112412, 20298
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: 112411
FCC ID	2AT4G-112411
Antenna Type	internal Antenna
Antenna Gain	0dBi
Equipment	Remote control car series
BT Operation frequency	2405MHz ~ 2475MHz
Number of Channels	71CH
Modulation Type	GFSK
Power Source	DC 3V from Battery
Power Rating	DC 3V from Battery



2.2 Carrier Frequency of Channels

Channe l	Frequency (MHz)	Channe l	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	25	2429	49	2453
2	2406	26	2430	50	2454
3	2407	27	2431	51	2455
4	2408	28	2432	52	2456
5	2409	29	2433	53	2457
6	2410	30	2434	54	2458
7	2411	31	2435	55	2459
8	2412	32	2436	56	2460
9	2413	33	2437	57	2461
10	2414	34	2438	58	2462
11	2415	35	2439	59	2463
12	2416	36	2440	60	2464
13	2417	37	2441	61	2465
14	2418	38	2442	62	2466
15	2419	39	2443	63	2467
16	2420	40	2444	64	2468
17	2421	41	2445	65	2469
18	2422	42	2446	66	2470
19	2423	43	2447	67	2471
20	2424	44	2448	68	2472
21	2425	45	2449	69	2473
22	2426	46	2450	70	2474
23	2427	47	2451	71	2475
24	2428	48	2452		

2.3 Operation of EUT during testing

Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2405MHz

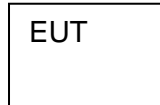
Middle Channel: 2445MHz

High Channel: 2475MHz

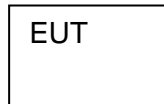


2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and Radiation testing:



Operation of EUT during Above1GHz Radiation testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. 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, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position



2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 26, 2019	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 26, 2019	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 26, 2019	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 26, 2019	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 26, 2019	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 26, 2019	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 26, 2019	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 26, 2019	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Dec. 26, 2019	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 26, 2019	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 26, 2019	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JY3120-B Version	HKE-083	Dec. 26, 2019	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 26, 2019	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 26, 2019	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 26, 2019	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 26, 2019	1 Year
19.	Horn Antenna	Schwarzbeck	BBHA 9170	HKE-017	Dec. 26, 2019	1 Year



3. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

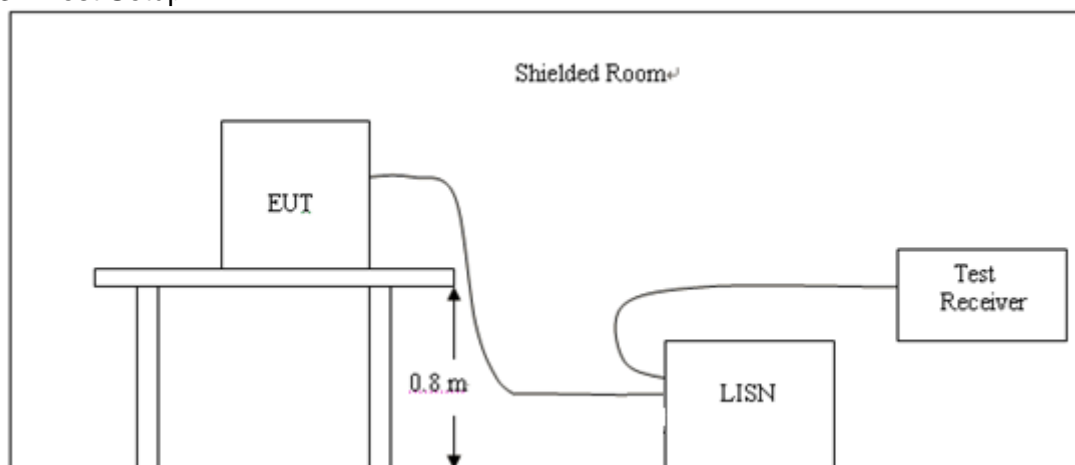
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

Not applicable for device which is DC Power supply.

4 RADIATED EMISSION TEST

4.1 Radiation Limit

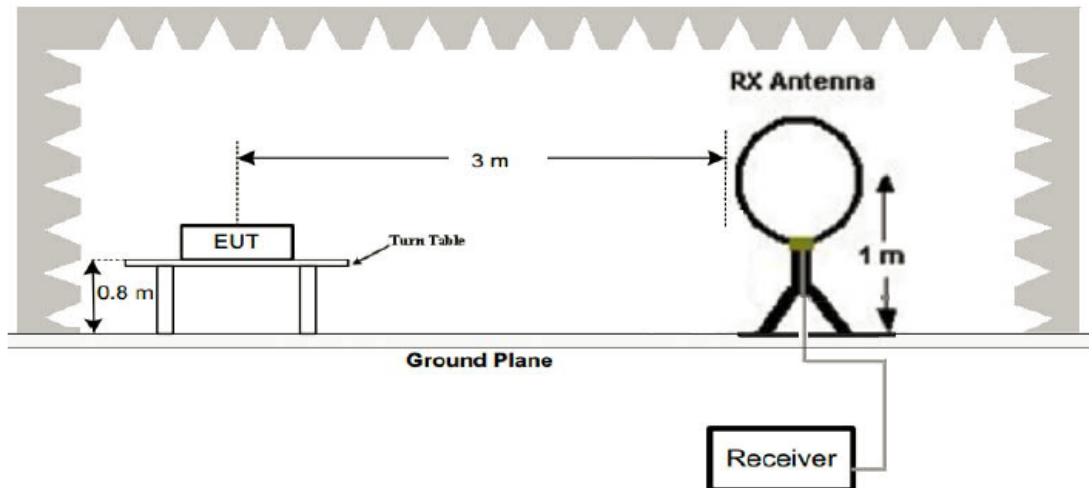
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

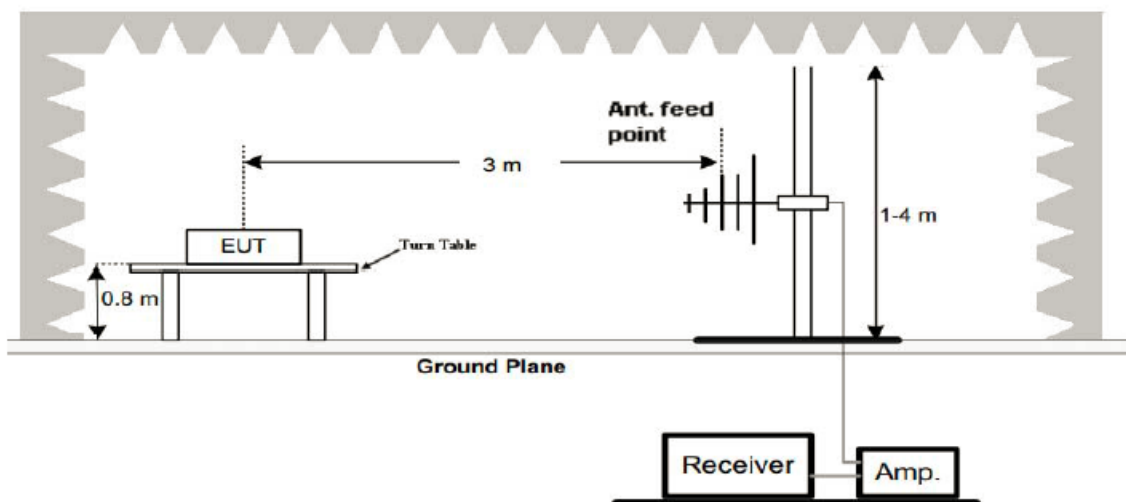
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

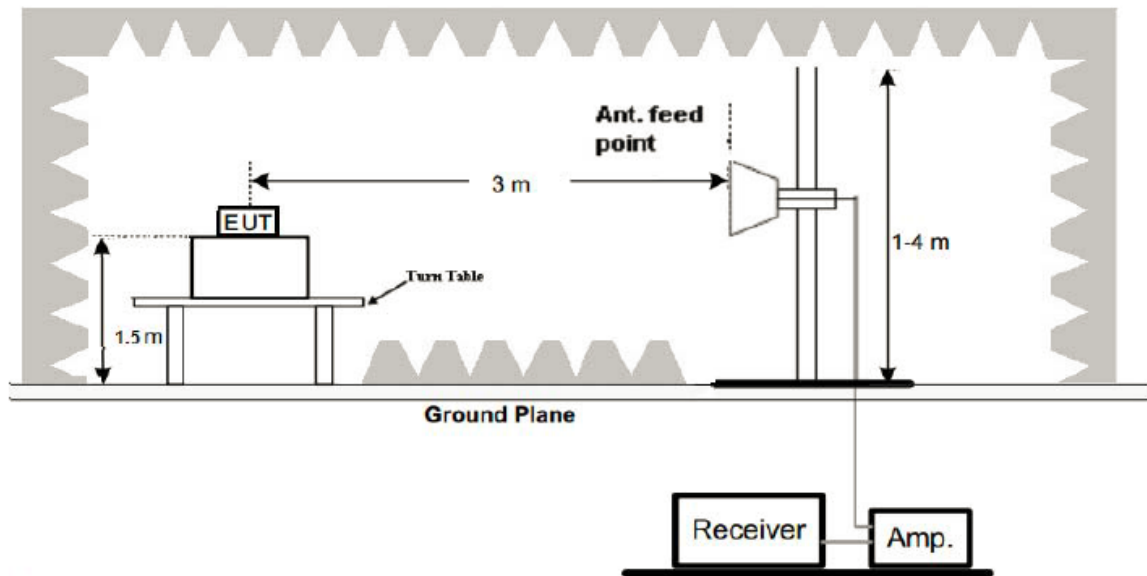
(1) Radiated Emission Test-Up Frequency Below 30MHz



(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

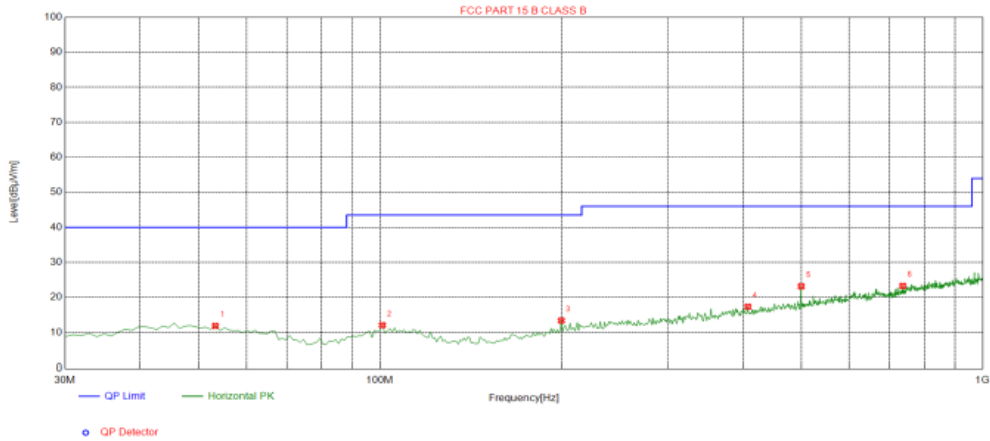
PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 2405; the test data of this mode was reported.



Below 1GHz Test Results:

Antenna polarity: H



Suspected List

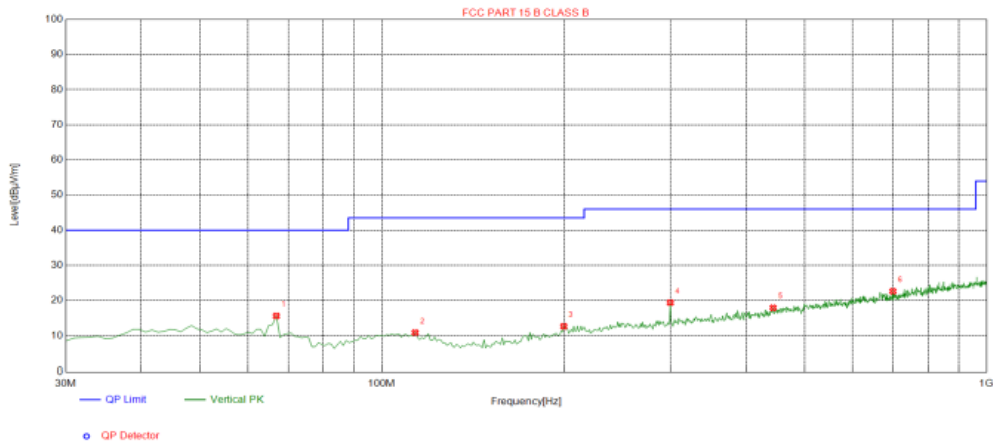
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.3033	-14.15	26.00	11.85	40.00	28.15	100	230	Horizontal
2	100.8809	-15.40	27.46	12.06	43.50	31.44	100	43	Horizontal
3	199.9199	-15.07	28.47	13.40	43.50	30.10	100	306	Horizontal
4	407.7077	-10.26	27.59	17.33	46.00	28.67	100	189	Horizontal
5	499.9500	-8.30	31.46	23.16	46.00	22.84	100	144	Horizontal
6	736.8669	-4.26	27.55	23.29	46.00	22.71	100	214	Horizontal

Final Data List

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;



Antenna polarity: V



Suspected List

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	66.8969	-16.89	32.50	15.61	40.00	24.39	100	220	Vertical
2	113.5035	-16.02	26.89	10.87	43.50	32.63	100	246	Vertical
3	199.9199	-15.07	27.73	12.66	43.50	30.84	100	89	Vertical
4	299.9299	-12.74	32.15	19.41	46.00	26.59	100	233	Vertical
5	443.6336	-9.26	27.18	17.92	46.00	28.08	100	5	Vertical
6	699.9700	-5.06	27.69	22.63	46.00	23.37	100	265	Vertical

Final Data List

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



Above 1 GHz Test Results:
CH Low (2405MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2405	107.46	-5.84	101.62	114	-12.38	peak
2405	86.33	-5.84	80.49	94	-13.51	AVG
4810	57.82	-3.64	54.18	74	-19.82	peak
4810	43.57	-3.64	39.93	54	-14.07	AVG
7215	55.6	-0.95	54.65	74	-19.35	peak
7215	42.03	-0.95	41.08	54	-12.92	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2405	110.66	-5.84	104.82	114	-9.18	peak
2405	83.61	-5.84	77.77	94	-16.23	AVG
4810	55.23	-3.64	51.59	74	-22.41	peak
4810	45.67	-3.64	42.03	54	-11.97	AVG
7215	52.91	-0.95	51.96	74	-22.04	peak
7215	38.16	-0.95	37.21	54	-16.79	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH Middle (2445MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2445	108.47	-5.71	102.76	114	-11.24	peak
2445	80.34	-5.71	74.63	94	-19.37	AVG
4890	58.49	-3.51	54.98	74	-19.02	peak
4890	42.16	-3.51	38.65	54	-15.35	AVG
7335	55.94	-0.82	55.12	74	-18.88	peak
7335	38.13	-0.82	37.31	54	-16.69	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2445	104.68	-5.71	98.97	114	-15.03	peak
2445	84.52	-5.71	78.81	94	-15.19	AVG
4890	57.62	-3.51	54.11	74	-19.89	peak
4890	73.13	-3.51	69.62	54	15.62	AVG
7335	55.68	-0.82	54.86	74	-19.14	peak
7335	40.32	-0.82	39.5	54	-14.5	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH High (2475MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2475	105.39	-5.65	99.74	114	-14.26	peak
2475	82.33	-5.65	76.68	94	-17.32	AVG
4950	58.1	-3.43	54.67	74	-19.33	peak
4950	41.67	-3.43	38.24	54	-15.76	AVG
7425	56.79	-0.75	56.04	74	-17.96	peak
7525	36.44	-0.75	35.69	54	-18.31	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2480	105.71	-5.65	100.06	114	-13.94	peak
2480	82.42	-5.65	76.77	94	-17.23	AVG
4950	59.23	-3.43	55.8	74	-18.2	peak
4950	44.69	-3.43	41.26	54	-12.74	AVG
7425	55.87	-0.75	55.12	74	-18.88	peak
7525	37.62	-0.75	36.87	54	-17.13	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark :

(1) Measuring frequencies from 1 GHz to the 25 GHz °

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

(7) All modes of operation were investigated and the worst-case emissions are reported.



5 BAND EDGE

5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.



5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2405MHz)

Horizontal (Worst case)

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	57.12	-5.81	51.31	74	-22.69	peak
2310	/	-5.81	/	54	/	AVG
2390	53.68	-5.84	47.84	74	-26.16	peak
2390	/	-5.84	/	54	/	AVG
2400	51.33	-5.84	45.49	74	-28.51	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	55.62	-5.81	49.81	74	-24.19	peak
2310	/	-5.81	/	54	/	AVG
2390	53.62	-5.84	47.78	74	-26.22	peak
2390	/	-5.84	/	54	/	AVG
2400	55.49	-5.84	49.65	74	-24.35	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2475MHz)

Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	57.03	-5.65	51.38	74	-22.62	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.32	-5.65	48.67	74	-25.33	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	56.49	-5.65	50.84	74	-23.16	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.33	-5.65	48.68	74	-25.32	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on ANSI C63.10 section 6.9.2: RBW= 30KHz. VBW= 100 KHz, Span=4MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

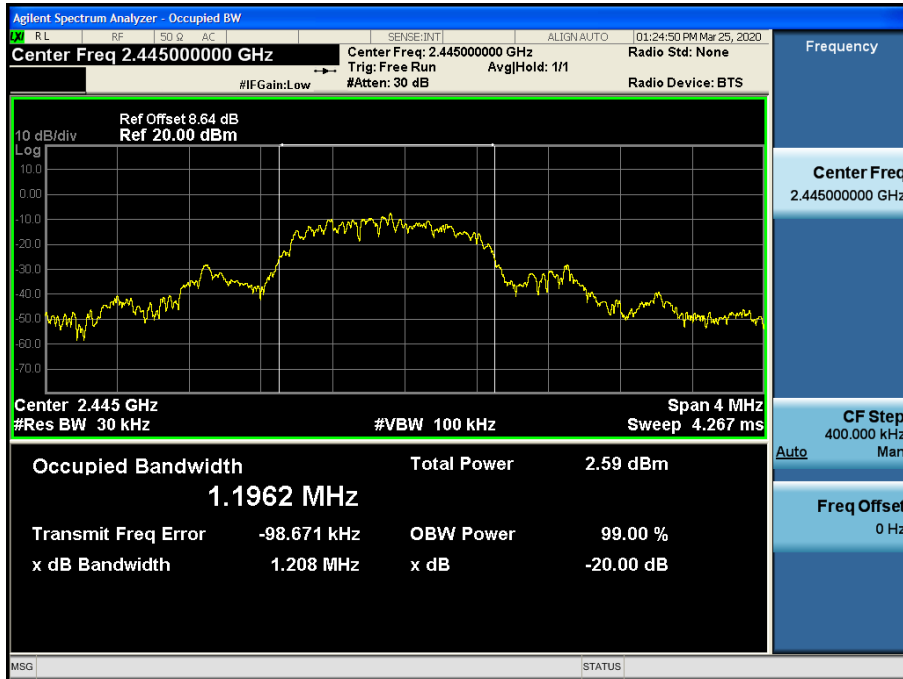
Frequency	20dB Bandwidth (MHz)	Result
2405 MHz	1.179	PASS
2445 MHz	1.208	PASS
2475 MHz	1.201	PASS

CH: 2405MHz





CH: 2445MHz



CH: 2475MHz



7 ANTENNA REQUIREMENT

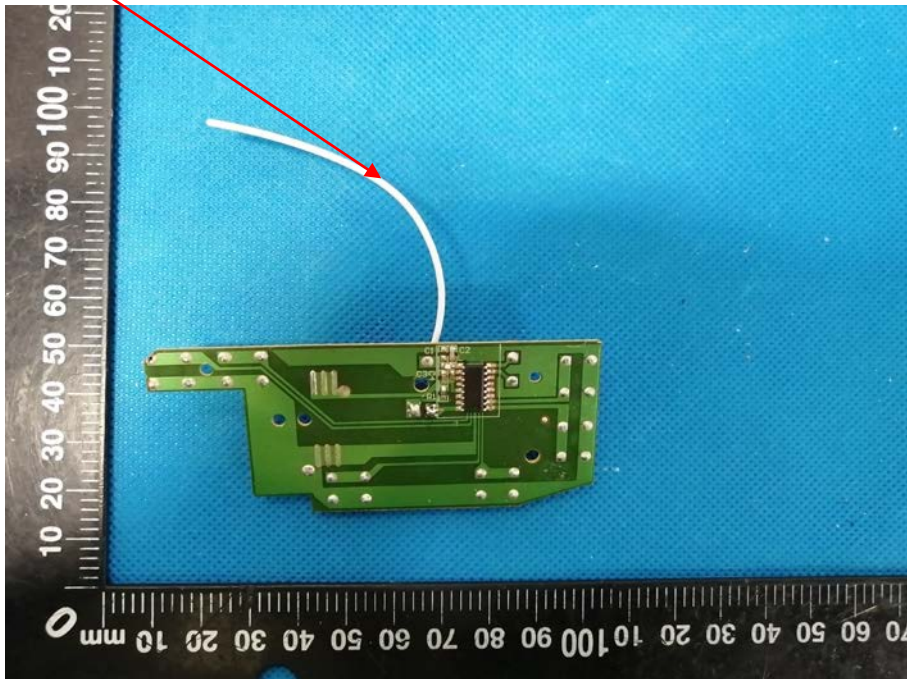
Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna used in this product is a internal Antenna, The directional gains of antenna used for transmitting is 0dBi.

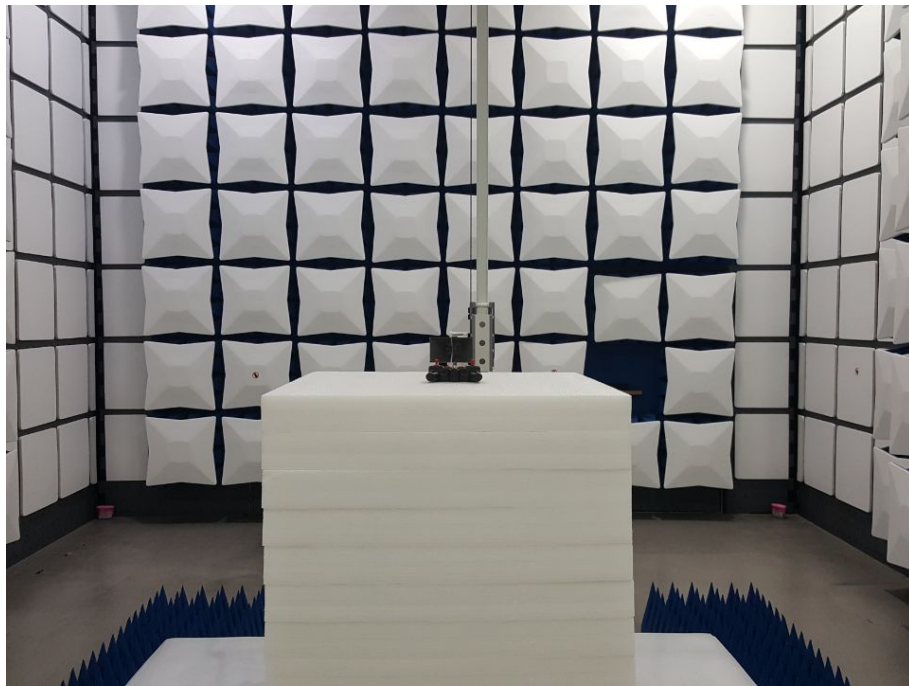
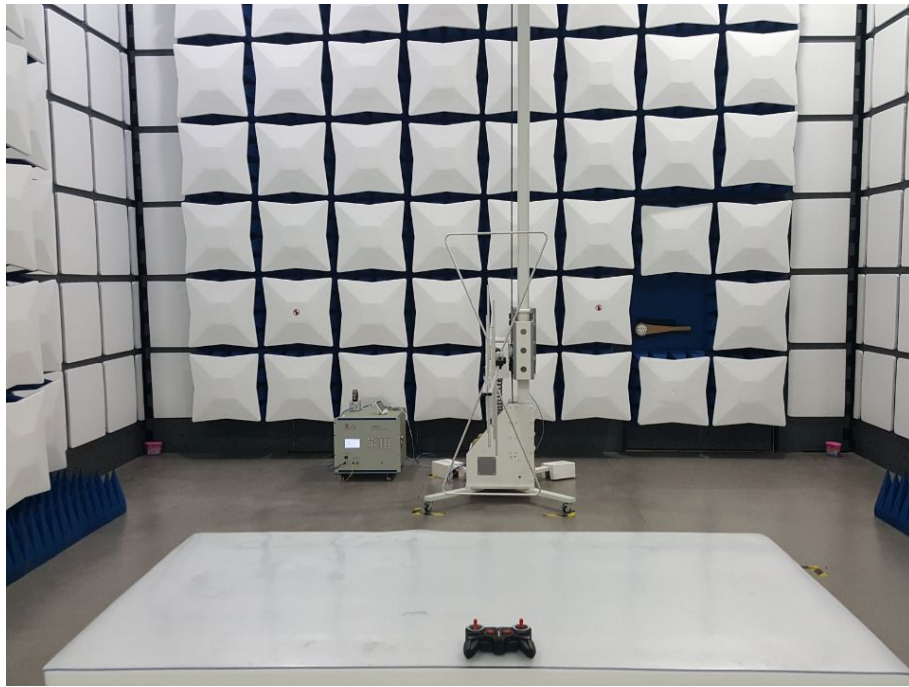
ANTENNA





8 PHOTOGRAPH OF TEST

8.1 Radiated Emission





9 PHOTOS OF THE EUT

Reference to the reporter : ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----