198 Kezhu Road, Scientech Park, Guangzhou Economic & TechnologicalDevelopment District, Guangzhou, China 510663Telephone: +86 (0) 20 82155555Fax:+86 (0) 20 82075059Email:ee.guangzhou@sgs.com

Report No.: GZEM150700320901 Page: 1 of 23 FCC ID: R6Z20157777355

TEST REPORT

The following sample(s) was/were submitted and identified on behalf of the client as:

Application No.:	GZEM1507003209CR
Applicant:	SHANTOU CITY HAPPY COW TOYS INDUSTRIAL CO., LTD.
FCC ID:	R6Z20157777355
Product Description:	flying saucer series
Model No.:	777-322, 777-329, 777-330, 777-331, 777-355, 777-355C, 777-355S, 777-355SC, 777-355SC, 777-356, 777-357, 777-365, 777-365C, 777-366, 777-367, 777-368, 777-369, 777-370, 777-371, 777-372, 777-373, 777-374, 777-375, 777-376, 777-377, 777-378, 777-379, 777-380, 777-381, 777-382, 777-383
*	Please refer to section 3 of this report for further details.
Standards:	CFR 47 PART 15 Subpart C: 2014 section 15.249
Date of Receipt:	2015-07-01
Date of Test:	2015-07-14
Date of Issue:	2015-07-30
Test Result :	Pass*

* In the configuration tested, the EUT complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-07-30		Original Report

Authorized for issue by:		
Tested By	Cily Knang	2015-07-14
	(Lily Kuang) / Project Engineer	Date
Prepared By	Fine Chen	2015-07-30
	(June Chen) / Clerk	Date
Checked By	Little Xiang	2015-07-30
	(Little Xiang) / Reviewer	Date

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3 Test Summary

Test	Test Requirement	Test method	Result
Field Strength of	FCC PART 15 C	ANSI C63.10:	PASS
Fundamental	section 15.249 (a)	Clause 6.6	FAGG
Field Observable of	FCC PART 15 C	ANSI C63.10:	
Field Strength of Unwanted Emissions	section 15.249 (a)	Clause 6.4, 6.6 and	PASS
	section 15.249 (d)	6.7	
Pand Edgag	FCC PART 15 C	ANSI C63.10:	PASS
Band Edges	section 15.249 (d)	Clause 6.9.2	FA35
Occupied Bandwidth	FCC PART 15 C	ANSI C63.10:	DASS
Occupied Bandwidth	section 15.215(c)	Clause 6.9.1	PASS

Remark:

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radio Frequency.

ANSI C63.10: the detail version is ANSI C63.10:2009 in the whole report.

♣ Model No.: 777-322, 777-329, 777-330, 777-331, 777-355, 777-355C, 777-355S, 777-355SC, 777-355S, 777-356, 777-356, 777-366, 777-367, 777-368, 777-369, 777-370, 777-371, 777-372, 777-373, 777-374, 777-375, 777-376, 777-377, 777-378, 777-379, 777-380, 777-381, 777-382, 777-383

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name and appearance.

Therefore only one model 777-355C was tested in this report.



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5 General Information

5.1 Client Information Applicant: SHANTOU CITY HAPPY COW TOYS INDUSTRIAL CO., LTD. Address of Applicant: 7TH Bldg., Chousha Garth, Shanfen Road., Chenghai, Shantou, G.D. China

5.2 General Description of E.U.T.

Product Description:	flying saucer series
Model No.:	777-355C

5.3 Details of E.U.T.

Operating Frequency	2415 MHz to 2465 MHz
Type of Modulation:	GFSK
Number of Channels	51
Channel Separation:	1 MHz
Antenna Type	Integral Antenna
Antenna gain:	3.0 dBi
Function:	The transmitter will be hopped between 2.415GHz and 2.465GHz for searching the Receiver. When the receiver is found, this frequency will be fixed and not be changed any more. The transmitter bounds to the receiver via the binding program. During the binding the receiver is in a continuous receiving mode and do not need any feedback to the transmitter. Binding is the process of programming the receiver to recognize the Globally Unique Identifier code of a single specific transmitter. When a receiver is bound to a transmitter, the receiver will only respond to that specific transmitter. This process has been set by the manufacturer before it is sold in the market. The end-user is no need to pair the frequency during using the product.
Power Supply:	DC 7.5 V= DC 1.5V size "AAA" batteries x 5 for Tx.
	DC 3.7V 600mAh rechargeable battery for Rx
Power cord:	N/A

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5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Other Information Requested by the Customer

None.

5.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

5.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

• FCC (Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

• Industry Canada (Registration No.: 4620B-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

• VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co. Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584, G-449 and T-1179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01:2006-10 and Rules of procedure IECEE 02:2006-10, and the relevant IECEE CB-Scheme Operational documents.



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6 Equipment List

RE in Cha	RE in Chamber					
Na				<u> </u>	Cal. date	Cal.Due date
No.	Test Equipment	Manufacturer	Model No.	Serial No.	(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0525	Compact Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	2014-12-05	2015-12-05
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100283	2015-03-02	2016-03-02
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	100236	2015-04-07	2016-04-07
EMC0528	RI High frequency Cable	SGS	20 m	N/A	2014-04-19	2016-04-19
EMC2025	Trilog Broadband Antenna 30-1000MHz	SCHWARZBECK MESS- ELEKTRONIK	VULB 9160	9160-3372	2014-07-14	2017-07-14
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	2013-08-31	2016-08-31
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	2014-05-04	2017-05-04
EMC2026	Horn Antenna 1-18GHz	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	9120D-841	2013-08-31	2016-08-31
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	2015-03-02	2016-03-02
EMC2065	Amplifier	HP	8447F	N/A	2014-08-25	2015-08-25
EMC0075	310N Amplifier	Sonama	310N	272683	2015-03-02	2016-03-02
EMC0523	Active Loop Antenna	EMCO	6502	42963	2014-03-03	2016-03-03
EMC2041	Broad-Band Horn Antenna (14)15-26.5(40)GHz	SCHWARZBECK MESS- ELEKTRONI	BBHA 9170	9170-375	2014-05-26	2017-05-26
EMC2079	High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	009	2015-03-02	2016-03-02
EMC2069	2.4GHz filter	Micro-Tronics	BRM 50702	149	2015-03-02	2016-03-02
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	2014-05-03	2016-05-03

General used equipment						
No. Test Equipment		Manufacturer Mo	Model No.	Serial No.	Cal. date	Cal.Due date
NO.	Test Equipment Manufacture	Manufacturer	Model No.	Serial No.	(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0006	DMM	Fluke	73	70681569	2014-09-15	2015-09-15
EMC0007	DMM	Fluke	73	70671122	2014-09-15	2015-09-15

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7 Test Results

7.1 E.U.T. Operation

Test Voltage:	DC 7.5V
Temperature:	20.0 -25.0 °C
Humidity:	38-50 % RH
Atmospheric Pressure:	1000 -1010 mbar

Test frequencies and
frequency range:According to the 15.31(m) Measurements on intentional radiators or
receivers, other than TV broadcast receivers, shall be performed and, if
required, reported for each band in which the device can be operated
with the device operating at the number of frequencies in each band
specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which	Number of	Location in frequency range
device operates	frequencies	of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
Mara then 10 Mile	2	1 near top, 1 near middle and 1
More than 10 MHz	3	near bottom

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz,
	whichever is lower
At or above 10 GHz to below	5th harmonic of highest fundamental frequency or to 100 GHz,
30 GHz	whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz,
	whichever is lower, unless otherwise specified

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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2415	27	2443		(
1	2416	28	2444		
2	2417	29	2445		
3	2418	30	2446		
4	2419	31	2447		
5	2420	32	2448		
6	2420	33	2440		
7	2421	33	2449		
8					
<u> </u>	2423	35	2451		
	2424	36	2452		
10	2425	37	2453		
11	2426	38	2454		
12	2427	39	2455		
13	2428	40	2456		
14	2429	41	2457		
15	2430	42	2458		
16	2431	43	2459		
17	2432	44	2460		
18	2433	45	2461		
19	2434	46	2462		
20	2435	47	2463		
21	2436	48	2464		
22	2437	49	2465		
23	2438	/	/		
24	2439				
25	2440				
26	2441				

EUT channels and frequencies list:

Test frequencies are the lowest channel: 0 channel: (2415MHz), middle channel: 25 channel (2440MHz) and highest channel: 49 channel (2465MHz).

The EUT is written special program which can sets the wanted channel by pressed the helm button,

By means of the special software written in the test device we can enter the product for engineer mode then we can control the EUT to select the wanted channel for test as above.

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7.2 Antenna Requirement

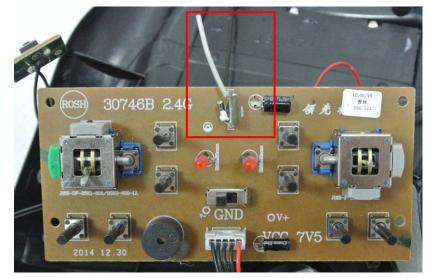
Standard requirement

15.203 requirement:

For intentional device. According to 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.

EUT Antenna

The antenna is an integral Antenna and no consideration of replacement. The best case gain of the antenna is 3.0 dBi.



Test result: The unit does meet the FCC requirements.



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7.3 Field Strength of Fundamental& Field Strength of Unwanted Emissions& Band Edge

Test Requirement: FCC Part15 C section 15.249

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

		0					
	Fundamental Frequency (MHz)	Field Strength of Fundamental (dBμV/m @ 3m)	Field Strength of Harmonics (dBµV/m @ 3m)				
	902 to 928	94.0	54.0				
	2400 to 2483.5	94.0	54.0				
	5725 to 5875	94.0	54.0				
	24000 to 24250	108.0	68.0				
	(d) Emissions radiated ou harmonics, shall be atten fundamental or to the ge whichever is the lesser att	nuated by at least 50 dl eneral radiated emission	B below the level of the				
Limits:	The fundamental frequer 2415MHz ~ 2465MHz.	ncy rang is in the freque	ency band of the EUT is				
	The limit for Average field strength $dB\mu V/m$ for the fundamental frequency = 94.0 $dB\mu V/m$. The limit for Peak field strength $dB\mu V/m$ for the fundamental frequency = 114.0 $dB\mu V/m$.						
	No fundamental is allowed in the restricted bands.						
	The limit for average field strength dB μ V/m for the harmonics = 54.0 dB μ V/m. The limit for peak field strength dB μ V/m for the harmonics = 74.0 dB μ V/m.						
	Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or 54.0 dB μ V/m in 15.209. Here the limit for the other emission is 54.0 dB μ V/m.						
Test Method:	ANSI C63.10: Clause 6.4, 6.6 and 6.7 for Field Strength of Fundamental& Field Strength of Unwanted Emissions ANSI C63.10: Clause 6.9.2 for Band Edge						
Status	 Pre-test the EUT in continuous transmitting mode with setup stand-alone in X, Y, Z threes axes, found the worst case is X axes and re the data. 						
	 Pre-test the helm an transmitting mode, found data. 						
Measurement Distance:	3m (Semi-Anechoic Chan	nber)					
Frequency range	9 kHz – 25 GHz for transr	nitting mode.					
	Test instrumentation resol 9 kHz (9 kHz - 30 MHz), 1 25 GHz)		1Hz), 1 MHz (1000 MHz –				

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Test Procedure:

1)9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT, During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2)30 MHz to 1 GHz emissions:

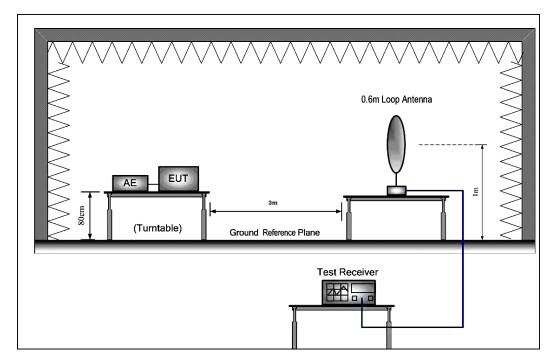
For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3)1 GHz to 25 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2007 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360^e, the antenna height scan between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

Test Configuration:



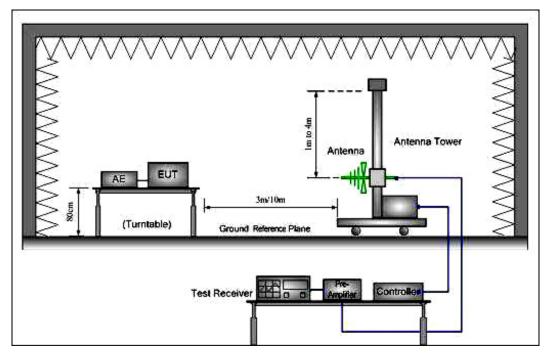
1) 9 kHz to 30 MHz emissions:

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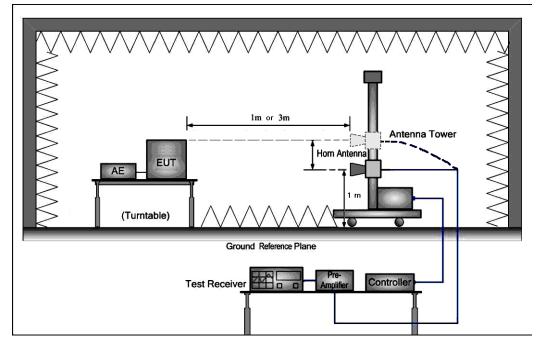


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2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:



The field strength is calculated by adding the Antenna Factor, Cable Loss & Per-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Loss - Preamplifier Factor

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Test at low Channel in transmitting status

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30MHz~1000MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with log antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

1~25 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions.

Peak Meas	urement:						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2415.00	27.58	8.19	38.25	82.31	79.83	114.00	V
4830.00	31.55	11.13	38.57	45.41	49.52	74.00	V
7245.00	36.48	13.35	38.86	43.41	54.38	74.00	V
9660.00	38.19	14.66	39.72	40.11	53.24	74.00	V
2415.00	27.58	8.19	38.25	81.66	79.18	114.00	Н
4830.00	31.55	11.13	38.57	45.18	49.29	74.00	Н
7245.00	36.48	13.35	38.86	44.33	55.30	74.00	Н
9660.00	38.19	14.66	39.72	44.71	57.84	74.00	Н
Average Me	asurement	:					·
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2415.00	27.58	8.19	38.25	77.40	74.92	94.00	V
4830.00	31.55	11.13	38.57	38.73	42.84	54.00	V
7245.00	36.48	13.35	38.86	37.65	48.62	54.00	V
9660.00	38.19	14.66	39.72	44.14	57.27	54.00	V
2415.00	27.58	8.19	38.25	78.21	75.73	94.00	н
4830.00	31.55	11.13	38.57	40.24	44.35	54.00	н
7245.00	36.48	13.35	38.86	36.88	47.85	54.00	Н
9660.00	38.19	14.66	39.72	35.37	48.50	54.00	н

Peak & Average Measurement

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Peak Measu	rement:						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2400.00	27.58	8.17	38.25	45.29	42.79	74.00	V
2483.50	27.55	8.28	38.26	45.62	43.19	74.00	V
2400.00	27.58	8.17	38.25	45.24	42.74	74.00	Н
2483.50	27.55	8.28	38.26	45.96	43.53	74.00	Н
verage Meas	urement:						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2400.00	27.58	8.17	38.25	40.57	38.07	54.00	V
2483.50	27.55	8.28	38.26	39.92	37.49	54.00	V
2400.00	27.58	8.17	38.25	40.85	38.35	54.00	Н
2483.50	27.55	8.28	38.26	41.70	39.27	54.00	Н

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Test at middle Channel in transmitting status

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30MHz~1000MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with log antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

1~25 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions.

Peak Measu	rement:						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2440.00	27.57	8.24	38.26	77.20	74.75	114.00	V
4830.00	31.55	11.13	38.57	43.11	47.22	74.00	V
7245.00	36.48	13.35	38.86	44.71	55.68	74.00	V
9660.00	38.19	14.66	39.72	42.62	55.75	74.00	V
2440.00	27.57	8.24	38.26	75.60	73.15	114.00	Н
4830.00	31.55	11.13	38.57	48.63	52.74	74.00	Н
7245.00	36.48	13.35	38.86	43.58	54.55	74.00	Н
9660.00	38.19	14.66	39.72	43.03	56.16	74.00	Н
Average Mea	asurement:						
Frequency	Antenna	Cable loss	Preamp	Reading	Emission	Limit	Antenna
(MHz)	factors	(dB)	factor	Level	Level	dBμV/m)	
	(dB/m)	(UD)	(dB)	(dBµV)	(dBµV/m)	(ασμν/Π)	polarization
2440.00	27.57	8.24	38.26	72.46	70.01	94.00	V
4830.00	31.55	11.13	38.57	39.71	43.82	54.00	V
7245.00	36.48	13.35	38.86	36.91	47.88	54.00	V
9660.00	38.19	14.66	39.72	37.75	50.88	54.00	V
2440.00	27.57	8.24	38.26	70.42	67.97	94.00	Н
4830.00	31.55	11.13	38.57	40.92	45.03	54.00	Н
7245.00	36.48	13.35	38.86	38.73	49.70	54.00	Н
9660.00	38.19	14.66	39.72	35.98	49.11	54.00	Н

Peak & Average Measurement

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Band Edge:							
Peak Measu	rement:						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2400.00	27.58	8.17	38.25	45.26	42.76	74.00	V
2483.50	27.55	8.28	38.26	45.98	43.55	74.00	V
2400.00	27.58	8.17	38.25	45.45	42.95	74.00	Н
2483.50	27.55	8.28	38.26	46.40	43.97	74.00	Н
Average Me	asurement	:					
Frequency	Antenna factors	Cable loss	Preamp factor	Reading Level	Emission Level	Limit	Antenna
(MHz)	(dB/m)	(dB)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	polarization
2400.00	27.58	8.17	38.25	40.39	37.89	54.00	V
2483.50	27.55	8.28	38.26	40.21	37.78	54.00	V
2400.00	27.58	8.17	38.25	39.89	37.39	54.00	Н
2483.50	27.55	8.28	38.26	40.03	37.60	54.00	Н

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Test at high Channel in transmitting status

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30MHz~1000MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with log antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

1~25 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions.

Peak Measu	irement:						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBµV/m)	Antenna polarization
2465.00	27.56	8.26	38.26	72.43	69.99	114.00	V
4930.00	31.65	11.24	38.56	43.92	48.25	74.00	V
7395.00	36.54	13.40	38.90	43.69	54.73	74.00	V
9860.00	38.65	14.82	39.77	42.83	56.53	74.00	V
2465.00	27.56	8.26	38.26	82.05	79.61	114.00	Н
4930.00	31.65	11.24	38.56	50.01	54.34	74.00	Н
7395.00	36.54	13.40	38.90	43.25	54.29	74.00	Н
9860.00	38.65	14.82	39.77	40.18	53.88	74.00	Н
Average Me	asurement						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarizatior
2465.00	27.56	8.26	38.26	66.82	64.38	94.00	V
4930.00	31.65	11.24	38.56	39.89	44.22	54.00	V
7395.00	36.54	13.40	38.90	39.56	50.60	54.00	V
9860.00	38.65	14.82	39.77	34.20	47.90	54.00	V
2465.00	27.56	8.26	38.26	77.71	75.27	94.00	Н
4930.00	31.65	11.24	38.56	40.04	44.37	54.00	Н
7395.00	36.54	13.40	38.90	37.00	48.04	54.00	Н
9860.00	38.65	14.82	39.77	36.83	50.53	54.00	Н

Peak & Average Measurement

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Band Edge:							
Peak Measu	irement:						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2400.00	27.58	8.17	38.25	45.20	42.70	74.00	V
2483.50	27.55	8.28	38.26	44.98	42.55	74.00	V
2400.00	27.58	8.17	38.25	45.01	42.51	74.00	Н
2483.50	27.55	8.28	38.26	46.22	43.79	74.00	Н
Average Me	asurement						
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
2400.00	27.58	8.17	38.25	39.95	37.45	54.00	V
2483.50	27.55	8.28	38.26	39.97	37.54	54.00	V
2400.00	27.58	8.17	38.25	40.11	37.61	54.00	Н
2483.50	27.55	8.28	38.26	40.78	38.35	54.00	Н

Remark:

1). The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Loss – Preamplifier Factor.

- 2). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 3). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.
- 4). For Radiated Emissions fall in the restricted bands (2400MHz is worse case than 2390MHz and report it as above), which set out in Section 15.205 Restricted bands.

Also there is not any other emission which falls in restricted bands can be detected and reported.

Test result: The unit does meet the FCC requirements.



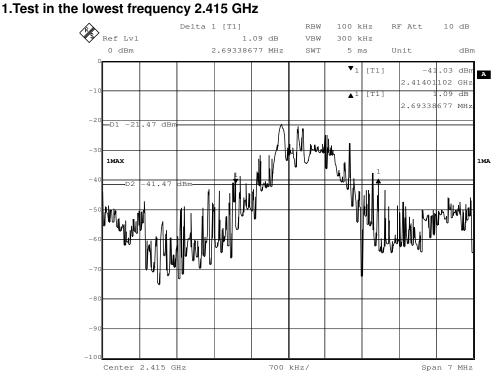
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7.4 Occupied Bandwidth

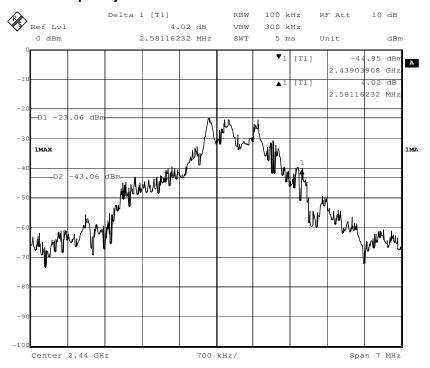
Test Requirement:	FCC Part 15 C section 15.215(c)
	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever 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 to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.
Test Method:	ANSI C63.10: Clause 6.9.1
	Operation within the band 2.400 to 2.4835 GHz
Test mode:	Pre-test the helm and accelerator buttons of the EUT in continuous transmitting mode, found the worst case is accelerator button and report the data.
Method of measurement:	A small sample of the transmitter output was fed into the Spectrum Analyzer and the attached plot was taken.



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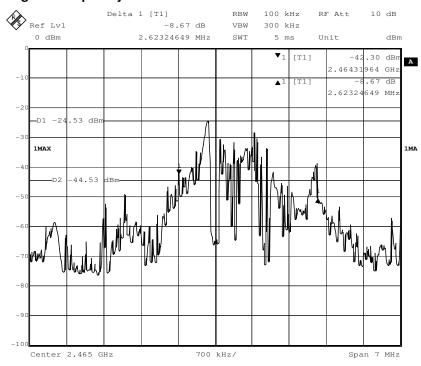
2.Test in the middle frequency 2.440 GHz



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3.Test in the highest frequency 2.465 GHz

The results: The unit does meet the FCC requirements.

--End of the report--

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