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1 Cover Page

RF REPORT

Application No.:	SHEM1808006865CR			
Applicant:	Ningbo Richen Electrical Appliance Co.,LTD			
FCC ID:	2AKF6-RCS12C			
IC	24293- RCS12C			
Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as				
Product Name:	Remote controller			
Model No.:	RCS12C			
Standards:	47 CFR Part 15, Subpart C 15.231, RSS-210 Issue 9 November 2017			
Date of Receipt:	2018-08-15			
Date of Test:	2018-08-20 to 2018-09-05			
Date of Issue:	2018-09-11			
Test Result:	PASS *			

In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Parlam Zhan E&E Section Manager

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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record					
Version Description Date Remark					
00	Original	2018-09-11	/		

Authorized for issue by:		
	Bril Wu	
	Bill Wu / Project Engineer	_
	Darlam Zhan	
	Parlam Zhan / Reviewer	



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2 Test Summary

Test Item	FCC Requirement	Test method	Result
Antenna Requirement	Part 15.203	/	PASS
Conducted Emission	Part 15.207	ANSI C63.10 (2013) Section 6.2	N/A
Field Strength of the Fundamental	Part 15.231 (b)	ANSI C63.10 (2013) Section 6.4	PASS
Radiated Spurious emissions	Part 15.209 15.231(b)	ANSI C63.10 (2013) Section 6.4&6.5&6.6	PASS
20dB Bandwidth	Part 15.231 (c)	ANSI C63.10 (2013) Section 6.9.2	PASS
99% Occupied Bandwidth		RSS-Gen Clause 4.6.1	PASS
Dwell Time	Part 15.231 (a)	ANSI C63.10 (2013) Section 7.8.4	PASS

N/A: Not applicable, please refer to Section 6.2 of this report for details.



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4 General Information

4.1 Client Information

Applicant:	Ningbo Richen Electrical Appliance Co.,LTD	
Address of Applicant:	No.19 Yongdinghe Road,Xiapu,Beilun,Ningbo315807,Zhejiang,P.R.China	
Manufacturer:	Ningbo Richen Electrical Appliance Co.,LTD	
Address of Manufacturer:	No.19 Yongdinghe Road,Xiapu,Beilun,Ningbo315807,Zhejiang,P.R.China	
Factory:	Ningbo Richen Electrical Appliance Co.,LTD	
Address of Factory:	No.19 Yongdinghe Road,Xiapu,Beilun,Ningbo315807,Zhejiang,P.R.China	

4.2 General Description of E.U.T.

Product Description:	Remote controller	
Power supply:	DC 3V by 2*AAA size batteries	
Test voltage:	DC 3V	

4.3 Technical Specifications:

Operation Frequency:	433.92MHz
Modulation Technique:	ASK
Number of Channel:	1
Antenna Type	PCB Antenna

4.4 Description of Support Units

The EUT has been tested independently

4.5 Details of Test Mode

Test Mode	Detail description of the test mode	
Engineering Mode	Keeps EUT working in continuous transmitting mode	

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.



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4.7 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

• FCC –Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

• Industry Canada (IC) - IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.8 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	< ±1 x 10 ⁻⁵
2	Total RF power, conducted	< ±1.5 dB
3	RF power density, conducted	< ±3 dB
4	Spurious emissions, conducted	< ±3 dB
5	All emissions, radiated	< ±6 dB (Below 1GHz) < ±6 dB (Above 1GHz)
6	Temperature	< ±1°C
7	Humidity	< ±5 %
8	DC and low frequency voltages	< ±3 %



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5 Equipments Used during Test

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-09-26	2018-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2018-07-22	2019-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2018-07-03	2019-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2017-09-26	2018-09-25
Communication Tester	R&S	CMW270	SHEM183-1	2017-10-22	2018-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2017-09-26	2018-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-26	2018-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01, RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	LAVIIO	LNA-0001-412010	SHEM164-1	2018-08-22	2019-08-21
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2018-08-22	2019-08-21
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25



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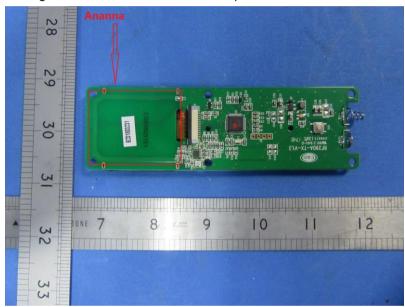
6 Test results and Measurement Data

6.1 Antenna Requirement

15.203 Requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The Loop antenna is integrated and no consideration of replacement.





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6.2 Conducted Emissions

Frequency Range: 150 KHz to 30 MHz

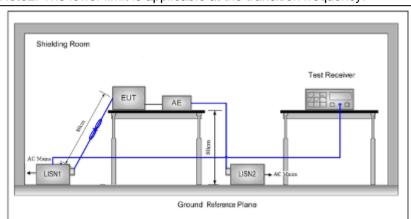
Limit:

Frequency range	Class B Limits: dB (µV)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

Note1: The limit decreases linearly with the logarithm of the frequency in the

range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.



Test Setup:

Test Procedure:

- a The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- b The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- c The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- d The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Test Results: N/A

Measurement Data:

This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.

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6.3 Spurious Emissions

Test frequency range: 9KHz - 5GHz

Test Site: Measurement Distance: 3m

Receiver Setup:

Receiver Setup:	Frequency	Detector RBW		VBW	Remark
	0.009MHz-0.015MHz	Quasi-peak	200Hz	1KHz	Quasi-peak
	0.015MHz-30MHz	Quasi-peak	9kHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
	Above 1CHz Peak 1MHz 3MHz		3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	Quasi-peak	300
	0.490MHz-1.705MHz	24000/F(kHz)	•	Quasi-peak	30
	1.705MHz-30MHz	30	•	Quasi-peak	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Above IGI12	300	74.0	Peak	3
Limit:	Frequency	Limit (dBuV/m	n @3m)	Remark	
(Field strength of the	433.09 - 434.61MHz	80.83		Average Value	
fundamental signal)	433.08 - 434.0 HVITZ	100.83		Peak Value	

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, only the test worst case mode is recorded in the report.



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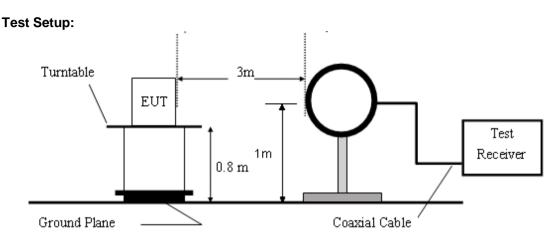


Figure 1. Blow 30MHz radiated emissions test configuration

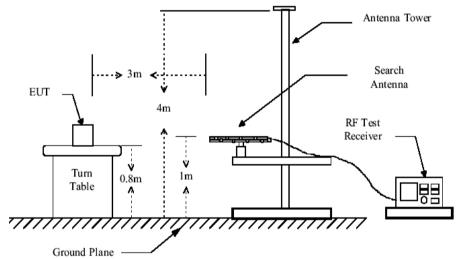


Figure 2. 30MHz to 1GHz radiated emissions test configuration

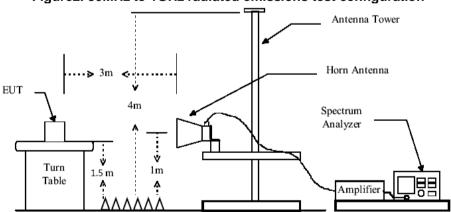


Figure 3. Above 1GHz radiated emissions test configuration

Test Results: Pass



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6.3.1 Field Strength of the Fundamental Signal

Test channel	Freq. (MHz)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
Channel 1	433.92	79.59	80.83	-1.24	Peak	Vertical
	433.92	78.99	80.83	-1.84	Peak	Horizontal

Remark: If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



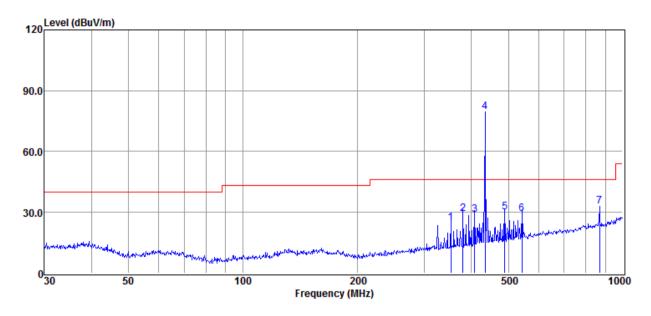
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6.3.2 Spurious Emissions

Below 1GHz

Vertical:



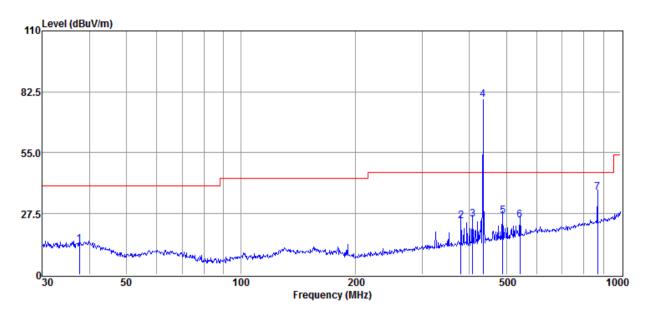
Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	352.94	52.89	14.27	43.54	0.92	24.54	46.00	-21.46	QP
2	379.91	57.10	14.75	43.58	0.96	29.23	46.00	-16.77	QP
3	407.51	56.09	15.27	43.57	1.01	28.80	46.00	-17.20	QP
4	433.92	106.18	15.87	43.52	1.06	79.59	Fundamental signal		gnal
5	489.02	55.11	17.00	43.34	1.16	29.93	46.00	-16.07	QP
6	543.27	53.01	18.22	43.19	1.26	29.30	46.00	-16.70	QP
7	869.13	51.30	22.46	42.93	2.31	33.14	46.00	-12.86	QP



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Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	37.54	40.92	16.08	43.69	0.21	13.52	40.00	-26.48	QP
2	379.91	52.15	14.75	43.58	0.96	24.28	46.00	-21.72	QP
3	407.51	52.09	15.27	43.57	1.01	24.80	46.00	-21.20	
4	433.92	105.58	15.87	43.52	1.06	78.99	Fund	lamental si	gnal
5	489.02	51.76	17.00	43.34	1.16	26.58	46.00	-19.42	QP
6	543.27	48.14	18.22	43.19	1.26	24.43	46.00	-21.57	QP
7	869.13	55.25	22.46	42.93	2.31	37.09	46.00	-8.91	QP



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Above 1GHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1885	27.08	-4.06	23.02	54	-30.98	peak	Horizontal
2	2230	20.31	-3.09	17.22	54	-36.78	peak	Horizontal
3	3005	31.24	-0.34	30.9	54	-23.10	peak	Horizontal
4	1615	20.36	-5.50	14.86	54	-39.14	peak	Vertical
5	2315	21.25	-3.67	17.58	54	-36.42	peak	Vertical
6	2765	20.64	-1.46	19.18	54	-34.82	peak	Vertical

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 Level +Factor

Factor = Antenna Factor + Cable Factor - Preamplifier Factor

- 2) If Peak Result comply with AV limit, AV Result is deemed to comply with QP limit
- 3) No any other emissions level which are attenuated less than 20dB below the limit. According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

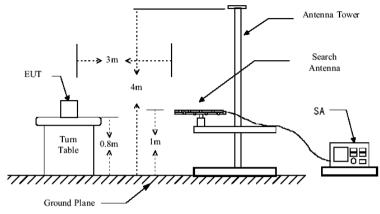


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6.4 20dB Bandwidth

Test Setup:



Limit: The bandwidth of the emission shall be no wider than 0.25% of the center frequency

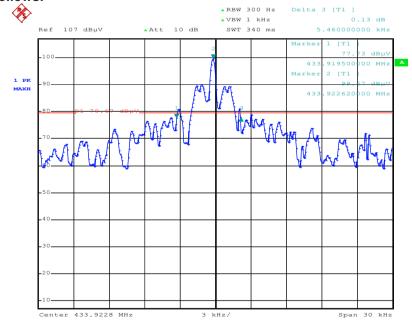
for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test Results: Pass

Measurement Data:

Frequency(MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.92	5.46	1084.8	Pass

Test plot as follows:

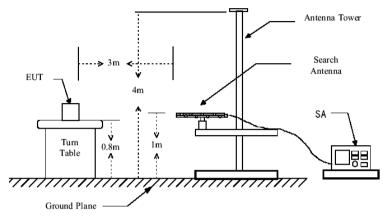




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6.5 Dwell Time Test Setup:



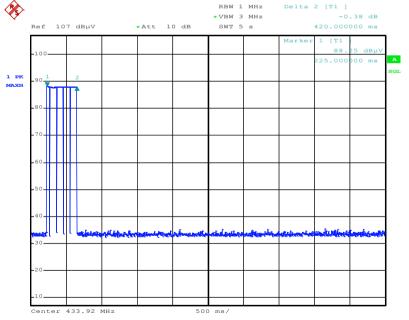
Limit: 15.231 (a): Not more than 5 seconds

Test Results: Pass

Measurement Data:

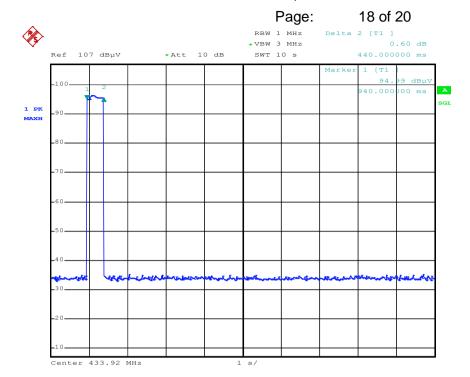
Test item	Limit (s)	Results
Transmission Duration	≤5s	Pass

Test plot as follows:





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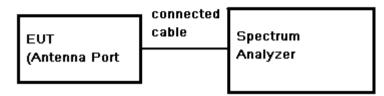


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6.6 99% Occupied Bandwidth

Test Configuration:



Test Procedure: Remove the antenna from the EUT and then connect a low RF cable

from the antenna port to the spectrum;

Set the spectrum analyzer: Span = approximately 2 to 3 times the

20dB bandwidth, centred on the hopping channel;

Set the spectrum analyzer: RBW = 1-5% of the OBW , VBW >= RBW.

Sweep = auto; Detector Function = Peak. Trace = Max Hold.

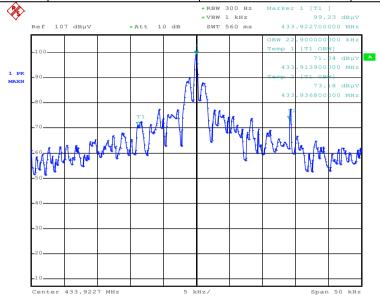
Mark the peak frequency and using the 99% OBW function measure

the bandwidth.

Test Result: Pass

Test Date:

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
433.92	22.90	1084.8	PASS



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

-- End of the Report--