

Report No.: SHCR221200280901

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TEST REPORT

Application No.: SHCR2212002809HS

FCC ID: 2AVJ8-RC001 **IC**: 25804-RC001

Applicant: DewertOkin Technology Group Co., Ltd.

Address of Applicant: Room 247, Floor 6, Jiaxing Photovoltaic Science and Innovation Park,

No.1288, Kanghe Road, Xiuzhou District, Jiaxing City, Zhejiang Province,

China.

Manufacturer: DewertOkin Technology Group Co., Ltd.

Address of Manufacturer: No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City,

Zhejiang Province, China.

Factory: DewertOkin Technology Group Co., Ltd.

Address of Factory: No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City,

Zhejiang Province, China.

Equipment Under Test (EUT):

EUT Name: Control System

Model No.: RC001

HVIN: RC001.071.001, RC001.071.002

Trade Mark:

DEWERT OKIN

Standard(s): 47 CFR Part 15, Subpart C 15.249

RSS-210 Issue10, December 2019

RSS-Gen Issue 5 Amendment 2 (February 2021)

Date of Receipt: 2022-12-23

Date of Test: 2023-01-03 to 2023-01-05

Date of Issue: 2023-02-01

Test Result: PASS*

Parlam Zhan Laboratory Manager

检验检测专用章

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



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Revision Record							
Version Description Date Remark							
00	Original	2023-02-01	1				

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



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Test Summary

Radio Spectrum Technical Requirement							
Item FCC Requirement IC Requirement Method Re							
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	RSS-Gen Clause 6.8	N/A	Pass			

Radio Spectrum Matter Part							
Item	FCC Requirement	IC Requirement	Method	Result			
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	RSS-Gen Section 6.7	ANSI C63.10 (2013) Section 6.9	Pass			
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	RSS-210 Issue10 Annex B B.10	ANSI C63.10 (2013) Section 6.5&6.6	Pass			
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	RSS-210 Issue10 Annex B B.10& RSS- Gen Section 8.9	ANSI C63.10 (2013) Section 6.4&6.5&6.6	Pass			
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	RSS-210 Issue10 Annex B B.10& RSS- Gen Section 8.9	ANSI C63.10 (2013) Section 6.4&6.5&6.6	Pass			
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass			

Note: Declaration of EUT Family Grouping:

There are series HVIN mentioned in this report and they are the similar in electrical and electronic characters. Only the HVIN RC001.071.001 was tested since their difference is HVIN and appearance.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 3V By 2*AAA size batteries

Test voltage: DC 3V
Modulation Type GFSK
Number of Channels 4

Operation Frequency 2405MHz~2470MHz

Channel List: 2405MHz, 2422MHz, 2450MHz, 2470MHz

Antenna Type PCB Antenna S/N: 2303210001

Firmware version: V1.1

4.2 Description of Support Units

The EUT has been tested independently.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	DE Dodicted Dower	5.1dB (Below 1GHz)
5	RF Radiated Power	4.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
6	Dedicted Courieus Emission Test	4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
7	Temperature Test	1°C
8	Humidity Test	3%
9	Supply Voltages	1.5%
10	Time	3%

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



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xingiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

- 1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).
- 2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.5 Test Facility

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

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

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

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• 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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test				2 3.3 = 3.3	
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	/	RF01~RF04	/	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	1	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	1	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	/	/



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

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.

6.1.2 Conclusion

Standard 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.

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement.

Antenna location: Refer to Appendix (Internal Photos)



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Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

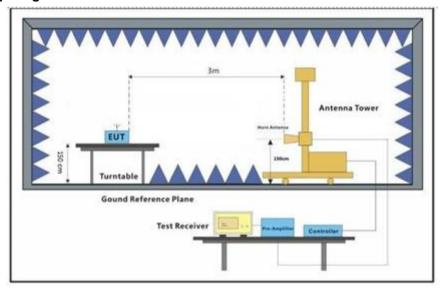
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1. Place the EUT on the table and set it in Engineering mode.
- 2. Set the spectrum analyzer as RBW = approximately 1 % to 5 % of the OBW, VBW =3* RBW, Span=6MHz, Sweep=auto
- 3. Mark the peak frequency and -20dB (upper and lower) frequency.
- 4. Repeat above procedures until all frequency measured was complete.

Frequency (MHz)	Bandwidth (MHz)	Result
2405	2.63	PASS
2450	2.61	PASS
2470	2.58	PASS



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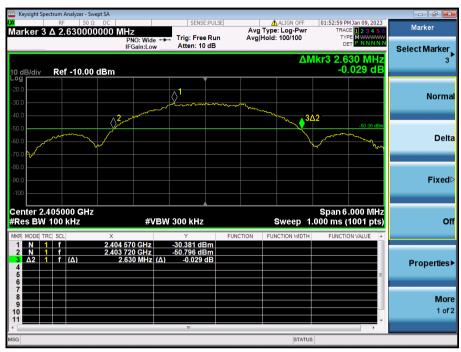


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Test plot as follows:

Channel: 2405MHz



Channel: 2450MHz





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Channel: 2470MHz





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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Test Site: Measurement Distance: 3m

Receiver Setup:

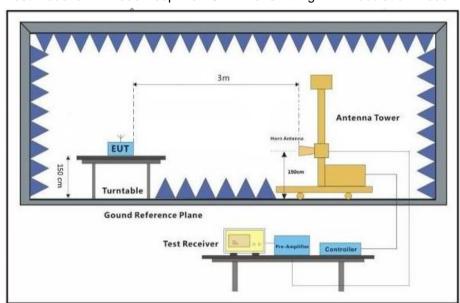
Frequency	Detector	RBW	VBW	Remark
Above 1GHz	Peak	1MHz	3MHz	Peak
	Average	1MHz	10Hz	Average

Limit:

Frequency	Limit (dBuV/m)	Remark
2400 2402 E MU-	114	Peak
2400~2483.5 MHz	94	Average

E.U.T. Operation: Operating Environment:

Temperature: 20℃ Humidity: 50% RH Atmospheric Pressure: 1002 mbar Test Mode: a:TX:mode Keep the EUT in transmitting with modulation mode



Test Setup:

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic camber. 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.
- 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.



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- 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 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.

Test Results: Pass

Measurement Data

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
2405	92.62	-1.67	90.95	94	-3.05	Peak	Horizontal
	81.28	-1.67	79.61	94	-14.39	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
2450	91.86	-1.53	90.33	94	-3.67	Peak	Horizontal
	78.82	-1.53	77.29	94	-16.71	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
0.470	91.52	-1.45	90.07	94	-3.93	Peak	Horizontal
2470	80.32	-1.45	78.87	94	-15.13	Peak	Vertical

Remark:

1) The basic equation with a sample calculation is as follows: Level = Read Level + Factor.

(The Factor is calculated by adding the Antenna Factor, Cable Loss and Preamp Factor)

2) If the Peak value below the Average Limit, the Average test doesn't perform for this submission.



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

ANSI C63.10 (2013) Section 6.4&6.5&6.6 Test Method:

Limit:

Frequency(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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

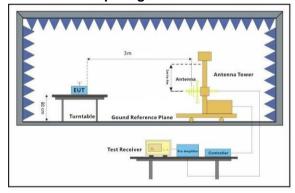
7.3.1 E.U.T. Operation

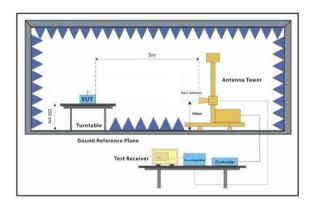
Operating Environment:

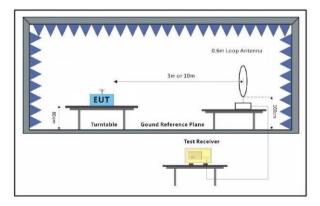
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

a:TX mode_Keep the EUT in transmitting with modulation mode. Test mode

7.3.2 Test Setup Diagram









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7.3.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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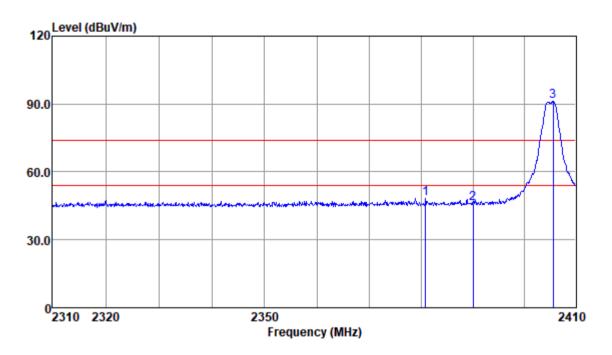
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2405MHz:



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2380.87	50.19	28.76	4.59	35.17	48.37	74.00	-25.63	Peak
2390.00	47.92	28.80	4.60	35.18	46.14	74.00	-27.86	Peak
2405.61	92.72	28.89	4.64	35.20	91.05	74.00	17.05	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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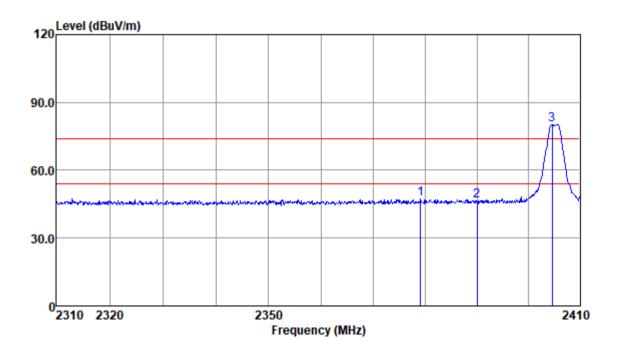
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Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2379.15	48.99	28.76	4.59	35.17	47.17	74.00	-26.83	Peak
2390.00	48.30	28.80	4.60	35.18	46.52	74.00	-27.48	Peak
2404.59	82.03	28.89	4.64	35.20	80.36	74.00	6.36	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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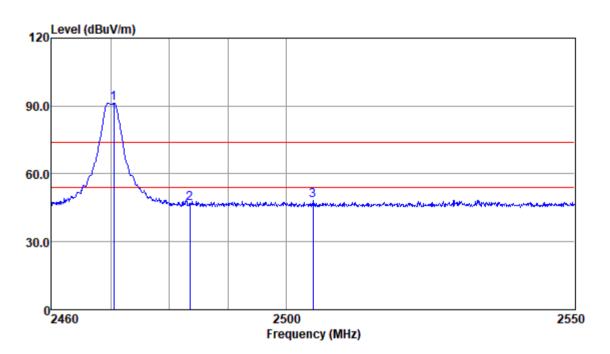
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2470MHz:



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuy	dB /m		dB	dBuv/m	dBuy/m	4B	
					91.27			Peak
					47.05			
2504.60	49.59	29.13	4.81	35.28	48.25	74.00	-25.75	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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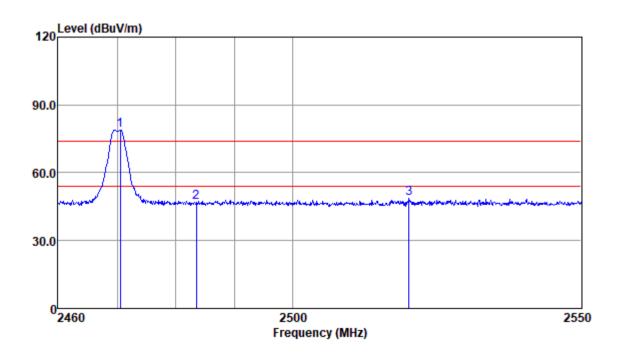
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Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2470.54	80.35	29.06	4.75	35.25	78.91	74.00	4.91	Peak
2483.50	48.13	29.09	4.78	35.26	46.74	74.00	-27.26	Peak
2520.03	49.85	29.13	4.84	35.30	48.52	74.00	-25.48	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Limit:

Frequency(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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

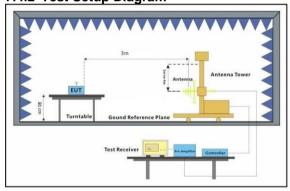
7.4.1 E.U.T. Operation

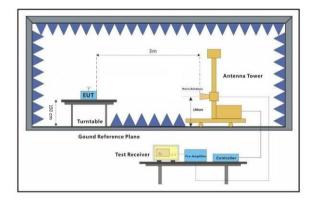
Operating Environment:

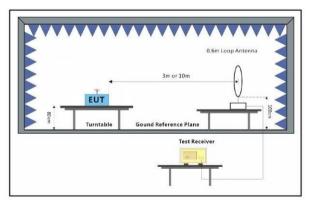
Temperature: Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram









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7.4.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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 Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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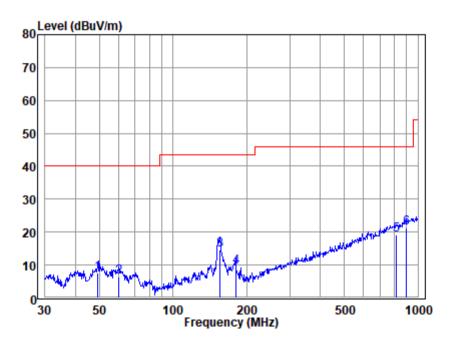


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30MHz-1GHz:

Mode:a: Polarization:Horizontal



Antenna Polarity : Horizontal EUT/Project :2809HS Test mode :00

	Freq					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	49.36	25.82	13.88	1.65	33.70	7.65	40.00	-32.35	QP
2	60.19	24.93	13.11	1.91	33.60	6.35	40.00	-33.65	QP
3	154.88	31.73	13.43	3.03	33.48	14.71	43.50	-28.79	QP
4	180.39	27.87	11.59	3.22	33.38	9.30	43.50	-34.20	QP
5	816.05	22.01	22.45	7.10	32.47	19.09	46.00	-26.91	QP
6	898.78	22.20	23.56	7.49	32.11	21.14	46.00	-24.86	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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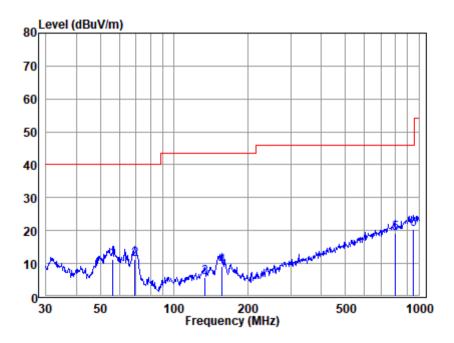
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Mode:a; Polarization:Vertical



Antenna Polarity : Vertical EUT/Project :2809HS Test mode :00

Freq	Read A	ntenna C actor L						Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 56.34	4 29.68	13.45	1.77	33.64	11.26	40.00	-28.74	QP
2 69.04	4 30.96	11.67	2.09	33.60	11.12	40.00	-28.88	QP
3 133.66	6 24.46	12.30	2.69	33.53	5.92	43.50	-37.58	QP
4 156.47	7 25.99	13.41	3.05	33.47	8.98	43.50	-34.52	QP
5 799.63	3 22.21	22.42	7.03	32.50	19.16	46.00	-26.84	QP
6 950.45	5 21.11	23.70	7.72	32.00	20.53	46.00	-25.47	QP
1 56.34 2 69.04 3 133.66 4 156.47 5 799.63	4 29.68 4 30.96 6 24.46 7 25.99 3 22.21	13.45 11.67 12.30 13.41 22.42	1.77 2.09 2.69 3.05 7.03	33.64 33.60 33.53 33.47 32.50	11.26 11.12 5.92 8.98 19.16	40.00 40.00 43.50 43.50 46.00	-28.74 -28.88 -37.58 -34.52 -26.84	Q

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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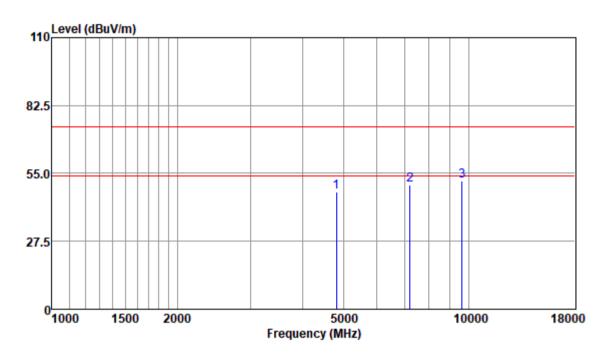
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Above 1GHz: 2405MHz:



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4810.00	43.31	33.57	7.46	36.79	47.55	74.00	-26.45	Peak
7215.00	41.75	36.26	7.79	35.51	50.29	74.00	-23.71	Peak
9620.00	39.33	37.75	8.57	33.58	52.07	74.00	-21.93	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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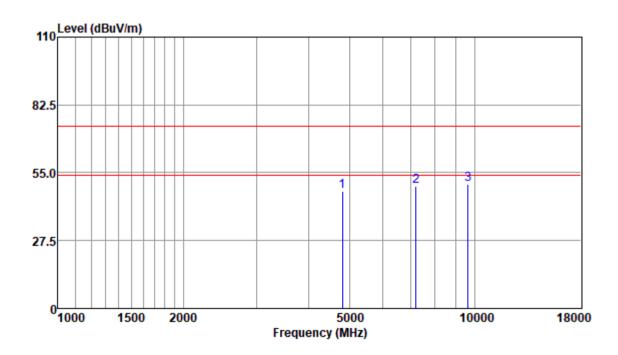
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Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4810.00	43.34	33.57	7.46	36.79	47.58	74.00	-26.42	Peak
7215.00	40.93	36.26	7.79	35.51	49.47	74.00	-24.53	Peak
9620.00	37.62	37.75	8.57	33.58	50.36	74.00	-23.64	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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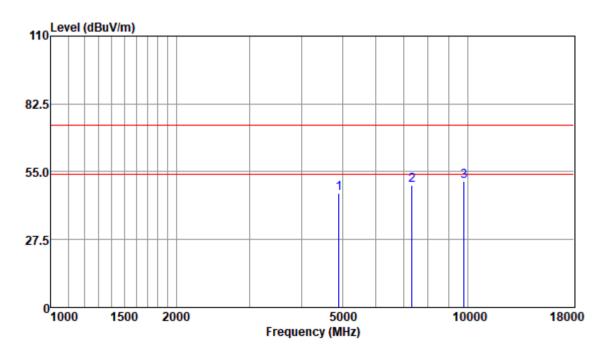
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2450MHz:



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4900.00	41.94	33.66	7.46	36.81	46.25	74.00	-27.75	Peak
7350.00	40.56	36.35	7.84	35.41	49.34	74.00	-24.66	Peak
9800.00	38.42	37.57	8.57	33.47	51.09	74.00	-22.91	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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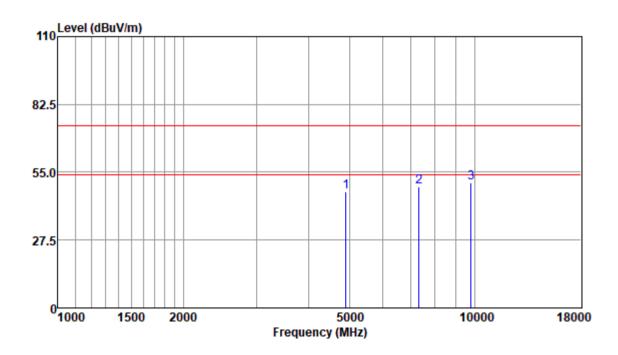
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Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4900.00	42.90	33.66	7.46	36.81	47.21	74.00	-26.79	Peak
7350.00	40.38	36.35	7.84	35.41	49.16	74.00	-24.84	Peak
9800.00	38.08	37.57	8.57	33.47	50.75	74.00	-23.25	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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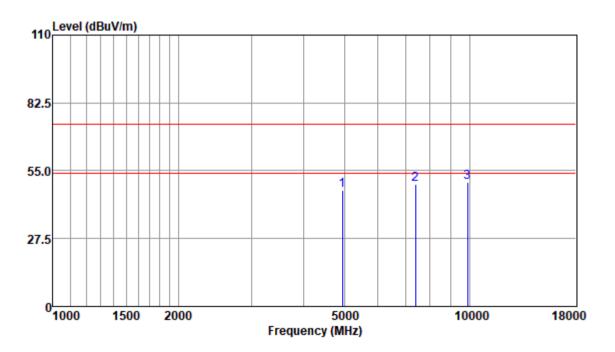
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2470MHz:



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4940.00	42.89	33.63	7.47	36.82	47.17	74.00	-26.83	Peak
7410.00	40.78	36.34	7.87	35.35	49.64	74.00	-24.36	Peak
9880.00	37.55	37.60	8.58	33.44	50.29	74.00	-23.71	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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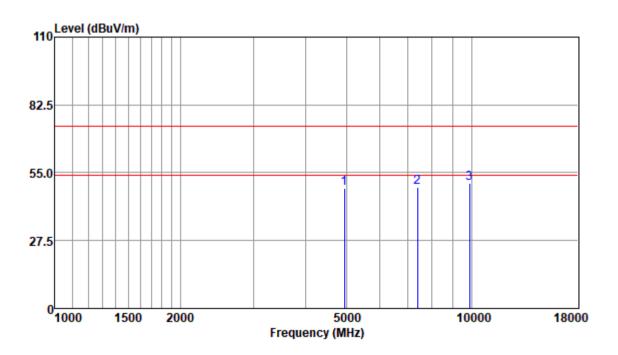
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Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4940.00	44.24	33.63	7.47	36.82	48.52	74.00	-25.48	Peak
7410.00	40.39	36.34	7.87	35.35	49.25	74.00	-24.75	Peak
9880.00	38.10	37.60	8.58	33.44	50.84	74.00	-23.16	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.5 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

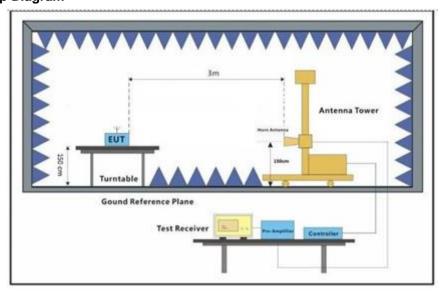
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

- 1.Set the spectrum analyzer: Span = approximately 2 to 3 times the 20dB bandwidth, centred on the hopping channel;
- 2.Set the spectrum analyzer: RBW = approximately 1 % to 5 % of the OBW. VBW >= RBW. Sweep = auto; Detector Function = Peak. Trace = Max Hold.
- 3.Mark the peak frequency and using the 99% OBW function measure the bandwidth.

Frequency (MHz)	Bandwidth (MHz)	Result
2405	2.343	PASS
2450	2.401	PASS
2470	2.329	PASS



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Test plot as follows:

Channel: 2405MHz



2450MHz Channel:





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Channel: 2470MHz





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Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 **EUT Constructional Details**

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

- End of the Report -



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