




SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230700213001

Page: 1 of 15

TEST REPORT

Application No.: SZCR2307002130AT
Applicant: Mercku Inc.
Address of Applicant: 3600 Steeles Avenue East, Suite C108B, Markham, Ontario, L3R 9Z7, Canada
Manufacturer: Mercku Inc.
Address of Manufacturer: 3600 Steeles Avenue East, Suite C108B, Markham, Ontario, L3R 9Z7, Canada
Factory: Shenzhen Broadlink Communication Technology Co., Ltd
Address of Factory: 6th floor, Saibo building, Tenglong Road, Longhua District, Shenzhen City, Guangdong Province
Equipment Under Test (EUT):
EUT Name: Mercku 5G CPE X6
Model No.: X1NA0
Trademark:  MERCKU
FCC ID: 2APR4-X6
Standard(s) : 47 CFR Part 2
47 CFR Part 96
Date of Receipt: 2023-07-03
Date of Test: 2023-07-03 to 2023-07-11
Date of Issue: 2023-07-17

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (EMC) EMC Laboratory.

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-07-17		Original

Authorized for issue by:				
		<i>Vincent Chen</i>		
		Vincent Chen/Project Engineer		
		<i>Eric Fu</i>		
		Eric Fu/Reviewer		



2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP≤ 47dBm/10MHz PSD≤ 37dBm/MHz (NR Band 48)	PASS
Field strength of spurious radiation	§2.1051, §96.41	≤ -40dBm (NR Band 48)	PASS

Remark for report SZCR230700213001:

Model No.: X1NA0

Only the model X1NA0 was tested.

This test report (Ref. No.: SZCR230700213001) is only valid with the modular test report

(Ref. No.: 2209RSU052-U1)

According to the declaration from the applicant, the WIFI module used in this report and the one in original report were identical (5G Sub-6 GHz LGA Module, model No.: RG520N-NA).

Therefore in this report Effective (Isotropic) Radiated Power Output Data and Field strength of spurious radiation were fully retested on model X1NA0 and shown the data in this report, other tests please refer to modular test report 2209RSU052-U1.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by AC Adapter Model: P120W2000U Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 2.0A, 24.0W
Test voltage:	DC 12V
Sample Type:	End User device
5G NR Operation Frequency Band:	n48
Frequency range:	3550~3700MHz
Modulation Type:	QPSK, 16QAM, 64QAM, 256QAM
Support Channel Bandwidth:	10/20/30/40MHz
Antenna Type:	Integrated Antenna
Antenna Gain:	5.33dBi
MIMO supported	2*2 UL
Antenna Port:	4
Hardware version:	X1NA0
Software version:	v1.0.1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
n48	10	3555.0	3624.99	3694.98
	20	3560.01	3624.99	3690.0
	30	3565.02	3624.99	3684.99
	40	3570.0	3624.99	3679.98



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4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	54%	
Atmospheric Pressure:	1010Pa	
Temperature:	TL	0 °C
	TN	25 °C
	TH	40 °C
Voltage:	VL	10.8 V
	VN	12 V
	VH	13.2 V

NOTE: VL= lower extreme test voltage, VN= nominal voltage
 VH= upper extreme test voltage, TL= lower extreme test temperature
 TN= normal temperature, TH= upper extreme test temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	RF conducted power	± 0.8dB
2	Radiated Spurious emission test	± 3.1dB (Below 1GHz)
		± 4.4dB (Above 1GHz)
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



5 Equipment List

RF test system					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	SAEMC	MSR733	SEM001-09	2022-05-14	2025-05-13
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-17	2023-03-20	2024-03-14
Mobile Communications DC Source	Agilent	66319D	SEM011-12	2022-05-07	2023-05-06
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2023-04-06	2024-04-05
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2023-04-06	2024-04-05
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2023-04-06	2024-04-05
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2022-03-23 2023-03-21	2023-03-22 2024-03-22
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-04-06	2024-04-05
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08 2023-07-07	2023-07-07 2023-07-08

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2023-04-06	2024-04-05
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2021-09-17	2023-09-16
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26	2024-09-25
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2022-09-15	2023-09-14
Microwave System Amplifier(0.5-26.5GHz)	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20



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Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-21	2024-03-20
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2022-07-12	2023-07-11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2022-03-23 2023-03-21	2023-03-22 2024-03-22
Coaxial Cable	SGS	N/A	SEM026-06	2022-07-08	2023-07-07

RE in Chamber

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2023-06-25	2024-06-24
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2022-07-12	2023-07-11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2022-03-23 2023-03-21	2023-03-22 2024-03-22
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08 2023-07-07	2023-07-07 2023-07-08

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-20	2024-03-19



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6 Radio Spectrum Matter Test Results

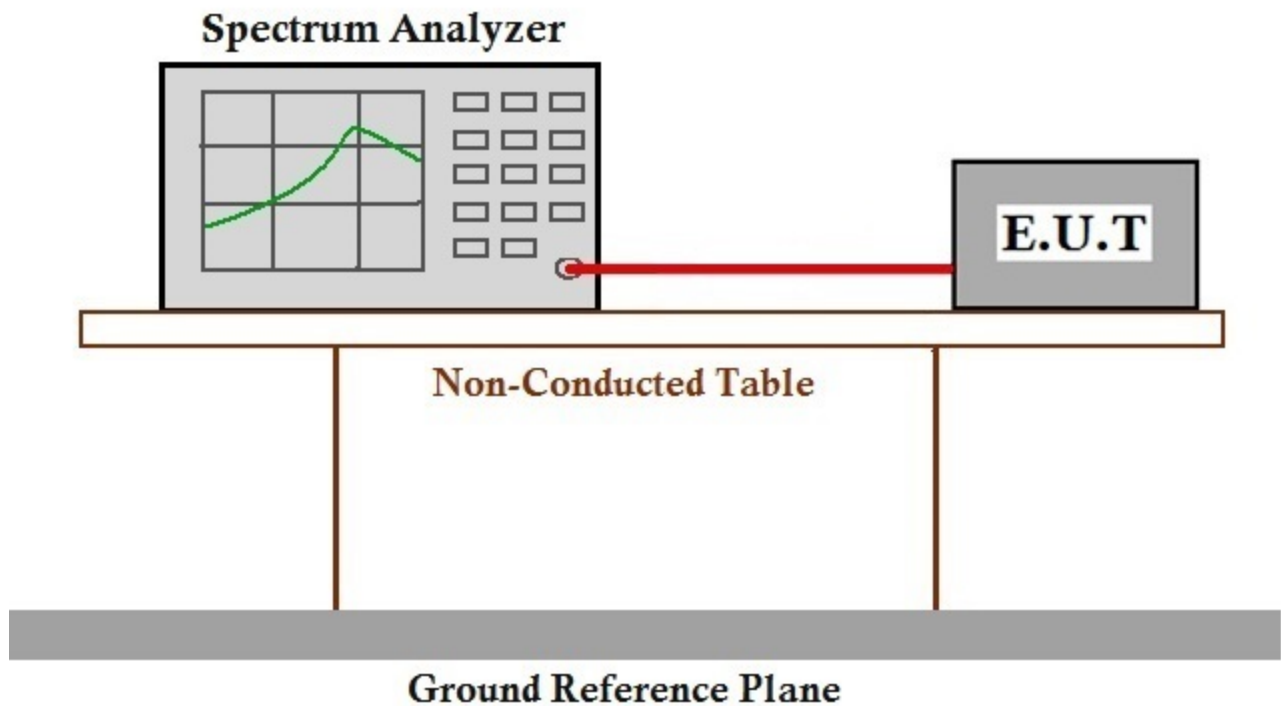
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §96.41
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: EIRP ≤ 47dBm/10MHz, PSD ≤ 37dBm/MHz (NR Band 48)

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix A- Effective (Isotropic) Radiated Power Output Data.



6.2 Field strength of spurious radiation

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

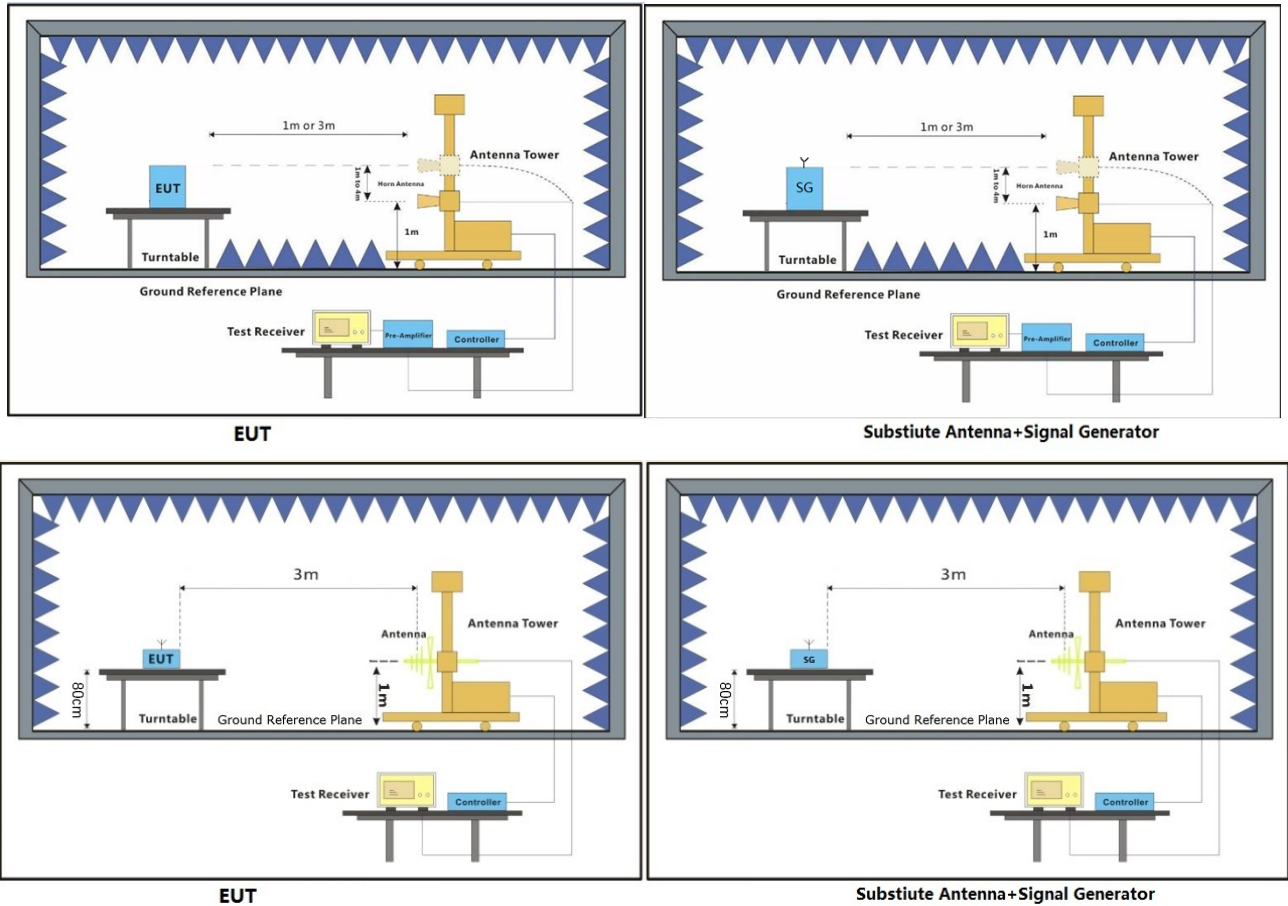
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar



6.2.2 Test Setup Diagram



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6.2.3 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



Test data: n48_10MHz_Low Channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss(dB)	Antenna Gain(dBi)	Polarization (H/V)	Result
7101	-50.58	-40	-10.58	-62.48	1	12.9	Horizontal	Pass
10651.5	-46.59	-40	-6.59	-58.6	1.49	13.5	Horizontal	Pass
14202	-46.22	-40	-6.22	-58.15	1.67	13.6	Horizontal	Pass
7101	-50.08	-40	-10.08	-61.98	1	12.9	Vertical	Pass
10651.5	-47.01	-40	-7.01	-59.02	1.49	13.5	Vertical	Pass
14202	-46.3	-40	-6.3	-58.23	1.67	13.6	Vertical	Pass

Test data: n48_10MHz_Middle Channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss(dB)	Antenna Gain(dBi)	Polarization (H/V)	Result
7240.98	-50.52	-40	-10.52	-62.42	1	12.9	Horizontal	Pass
10861.47	-46.4	-40	-6.4	-58.41	1.49	13.5	Horizontal	Pass
14481.96	-45.05	-40	-5.05	-56.98	1.67	13.6	Horizontal	Pass
7240.98	-51.37	-40	-11.37	-63.27	1	12.9	Vertical	Pass
10861.47	-46.84	-40	-6.84	-58.85	1.49	13.5	Vertical	Pass
14481.96	-45.11	-40	-5.11	-57.04	1.67	13.6	Vertical	Pass

Test data: n48_10MHz_High Channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss(dB)	Antenna Gain(dBi)	Polarization (H/V)	Result
7380.96	-51.04	-40	-11.04	-62.94	1	12.9	Horizontal	Pass
11071.44	-46.49	-40	-6.49	-58.5	1.59	13.6	Horizontal	Pass
14761.92	-45.1	-40	-5.1	-56.13	1.37	12.4	Horizontal	Pass
7380.96	-51.69	-40	-11.69	-63.59	1	12.9	Vertical	Pass
11071.44	-46.77	-40	-6.77	-58.78	1.59	13.6	Vertical	Pass
14761.92	-45.39	-40	-5.39	-56.42	1.37	12.4	Vertical	Pass

Remark:

1) Pretest with all bandwidths, below 1GHz emission is very low. So only the worst case data was showed in the test report.



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7 Photographs

7.1 Setup photo

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -

