



TEST REPORT

Applicant: Proxim Wireless Corporation

Address: 2114 Ringwood Ave, San Jose, CA 95131, USA

FCC ID: HZB-NGPPS

Product Name: NGP LC 4.9+5 GHz radio

Model Number: MP-1045-BS3-US, AB-CCCCD-XXX-YYY-ZZ

Standard(s): 47 CFR Part 15, Subpart C(15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21090075-00A

Date Of Issue: 2021-12-29

Reviewed By: Sun Zhong

Sun 2hong

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

Report No.: CR21090075-00A

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 442868, the FCC Designation No.: CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	NGP LC 4.9+5 GHz radio
EUT Model:	MP-1045-BS3-US
Multiple Model	AB-CCCCD-XXX-YYY-ZZ (Refer to the DOS letter for details)
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	-2.44 dBm
Modulation Type:	GFSK
Rated Input Voltage:	DC 56V from POE
Serial Number:	CR21090075-RF-S1
EUT Received Date:	2021.09.29
EUT Received Status:	Good
TAT A TOTAL ACTION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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Note: The Multiple models are identical with Test model, please refer to the declaration letter for more detail, which was provided by manufacturer.

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404		
•••		•••	
•••		•••	
	•••	38	2478
19	2440	39	2480

Per section 15.31(m), the lowest frequency, middle frequency, and highest frequency were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2440
Highest	2480

Antenna Information Detail ▲:

correct antenna is employed with the unit.

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement
Proxim Wireless Corporation	PCB	50	2.0 dBi/2.4~2.5GHz	Compliance
The Method of §15.203 Compliance:				
⊠Antenna must be permanently attached to the unit.				
Antenna must use a unique type of connector to attach to the EUT.				
☐Unit must be profes	ssionally instal	lled, and installer sh	all be responsible for v	erifying that the

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	Proxim / RISUNIC	RP025- 5600536YG/Proxim 400-	Input AC 100-240V 50/60Hz 0.7A Max
•		00021	Output: DC 56.0V 0.536A

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode: The system was configured for testing in Engineering Mode, w provided by the manufacturer.	
Equipment Modifications:	No
EUT Exercise Software:	nRFgo

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The software " nRFgo "was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer \blacktriangle :

Test Channel	Frequency (MHz)	Power Level Setting
Lowest	2402	Default
Middle	2440	Default
Highest	2480	Default

1.2.2 Support Equipment List and Details

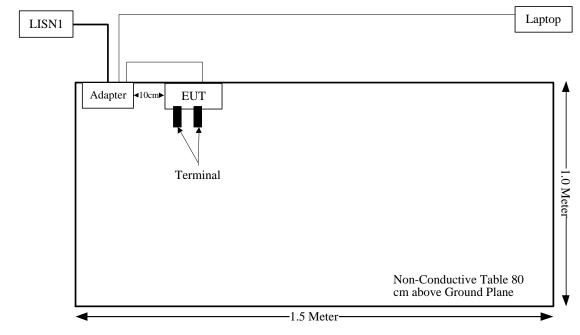
Manufacturer	Manufacturer Description Model		Serial Number
Lenovo	Laptop	E480	PF-1QQYYP 19/06
Unknown	50 ohms Terminal	Unknown	50 ohms Terminal-1
Unknown	50 ohms Terminal	Unknown	50 ohms Terminal-2

1.2.3 Support Cable List and Details

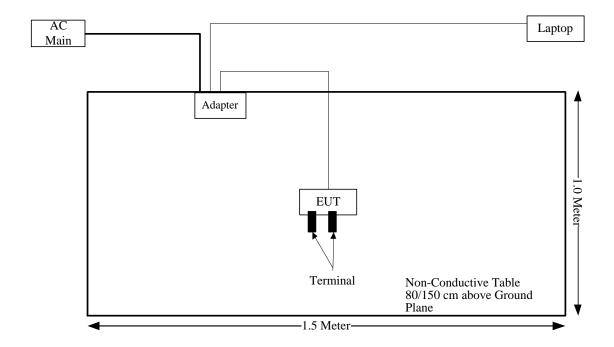
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
RJ45 Cable	No	No	10	PoE Adapter	Laptop

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Radiated emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC line conducted emissions	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Bandwidth	Compliance*
§15.247(b)(3)	Maximum Conducted Output Power	Compliance*
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance*
§15.247(e) Power Spectral Density		Compliance*
§15.203	Antenna Requirement	Compliance*

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Compliance*: the device have a identical BLE module with the Model: MP-1015-CPE-US, FCC ID: HZB-NGPLC, per check with the RF output power, the RF parameters are same with the model: MP-1015-CPE-US, the data of antenna port conducted test please refer to the report of FCC ID: HZB-NGPLC, report number: RDG200805002-00A, issued by Bay Area Compliance Laboratories Corp. (Dongguan) on 2020-12-21.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.207(a).

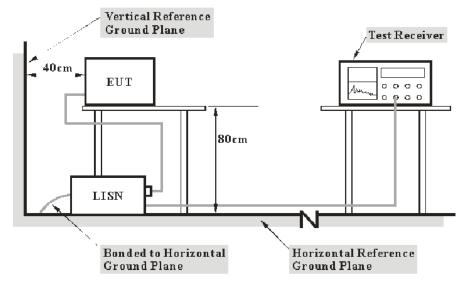
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \,\mu\text{H}/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 $\mu H/50$ ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

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3.1.5 Corrected Result & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

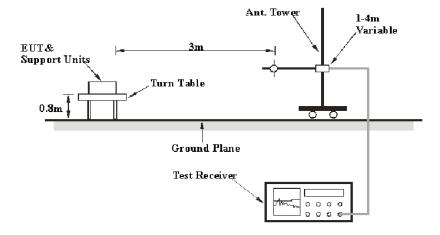
FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

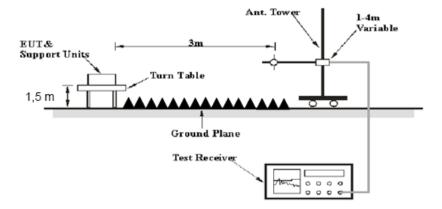
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3.2.2 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the

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The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30MHz-1000MHz:

middle.

Measurement RBW		Video B/W	IF B/W	
QP	120 kHz	300 kHz	120kHz	

1GHz-25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

3.2.5 Corrected Result & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

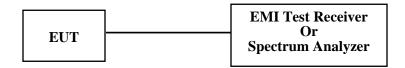
3.3 6 dB Emission Bandwidth:

3.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

3.3.2 EUT Setup



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3.3.3Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4 Maximum peak conducted output power:

3.4.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

3.4.2 EUT Setup



3.4.3Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

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- a) Set the EUT in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- c) Add a correction factor to the display.
- d) Set the power meter to test peak output power, record the result.

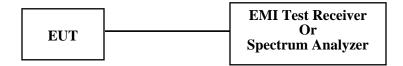
3.5 Maximum power spectral density:

3.5.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.5.2 EUT Setup



3.5.3Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW $> [3 \cdot RBW]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

3.6 100 kHz Bandwidth of Frequency Band Edge:

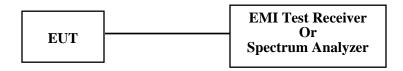
3.6.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

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3.6.2 EUT Setup



3.6.3 Test Procedure

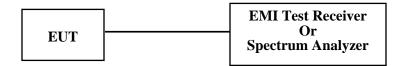
According to ANSI C63.10-2013 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.7 Duty Cycle:

3.7.1 EUT Setup



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3.7.2Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set VBW \geq RBW. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \le 16.7 \,\mu s$.)

3.8 Antenna Requirement

3.8.1 Applicable Standard

FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR21090075-RF-S1	Test Date:	2021-10-25
Test Site:	CE	Test Mode:	Transmitting
Tester:	Nick Tang	Test Result:	Pass

Report No.: CR21090075-00A

Environmental Conditions:						
Temperature: $(^{\circ}\mathbb{C})$	21.5	Relative Humidity: (%)	74	ATM Pressure: (kPa)	101.3	

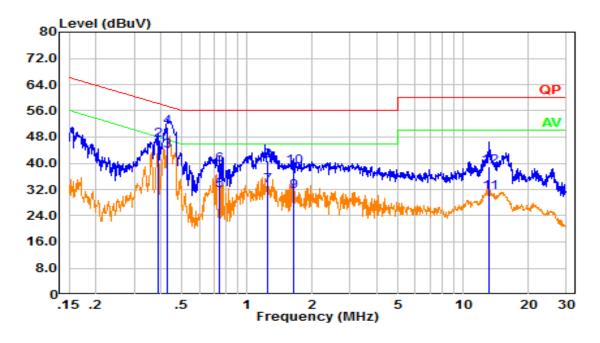
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2021-04-25	2022-04-24
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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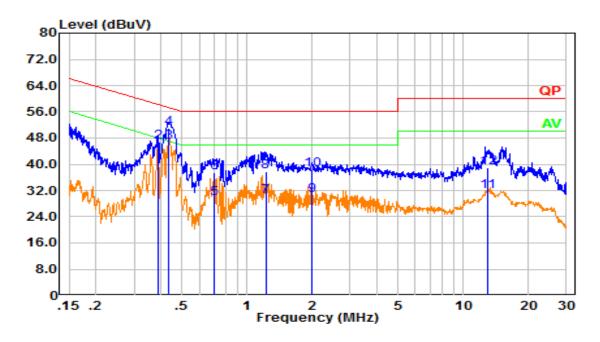
Line:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.385	33.51	9.61	43.12	48.16	5.04	Average
2	0.385	37.51	9.61	47.12	58.16	11.04	QP
3	0.430	34.13	9.61	43.74	47.26	3.52	Average
4	0.430	41.37	9.61	50.98	57.26	6.28	QP
5	0.742	22.09	9.62	31.71	46.00	14.29	Average
6	0.742	29.99	9.62	39.61	56.00	16.39	QP
7	1.241	23.57	9.62	33.20	46.00	12.80	Average
8	1.241	31.07	9.62	40.69	56.00	15.31	QP
9	1.649	21.62	9.63	31.25	46.00	14.75	Average
10	1.649	29.40	9.63	39.03	56.00	16.97	QP
11	13.210	21.33	9.68	31.01	50.00	18.99	Average
12	13.210	29.19	9.68	38.87	60.00	21.13	QP

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Neutral:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.386	33.31	9.61	42.92	48.15	5.24	Average
2	0.386	37.28	9.61	46.89	58.15	11.26	QP
3	0.436	37.15	9.61	46.76	47.15	0.38	Average
4	0.436	41.34	9.61	50.95	57.15	6.20	QP
5	0.705	19.92	9.62	29.54	46.00	16.46	Average
6	0.705	27.96	9.62	37.58	56.00	18.42	QP
7	1.218	20.66	9.62	30.28	46.00	15.72	Average
8	1.218	28.25	9.62	37.87	56.00	18.13	QP
9	1.986	20.95	9.63	30.57	46.00	15.43	Average
10	1.986	28.82	9.63	38.45	56.00	17.55	QP
11	12.915	21.96	9.68	31.64	50.00	18.36	Average
12	12.915	29.29	9.68	38.97	60.00	21.03	QP

4.2 Radiation Spurious Emissions

Serial Number:	CR21090075-RF-S1	Test Date:	2021-12-29
Test Site:	CE	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Report No.: CR21090075-00A

Environmental Conditions:						
Temperature: $(^{\circ}\mathbb{C})$	24.1	Relative Humidity: (%)	62	ATM Pressure: (kPa)	101.3	

Test Equipment List and Details:

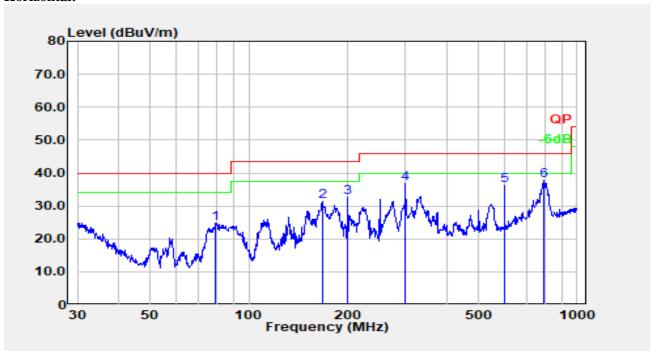
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04
AH	Preamplifier	PAM-1840VH	190	2021-11-19	2022-11-18
MICRO-COAX	Coaxial Cable	UFB142A-1- 2362-200200	235772-001	2021-08-08	2022-08-07
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

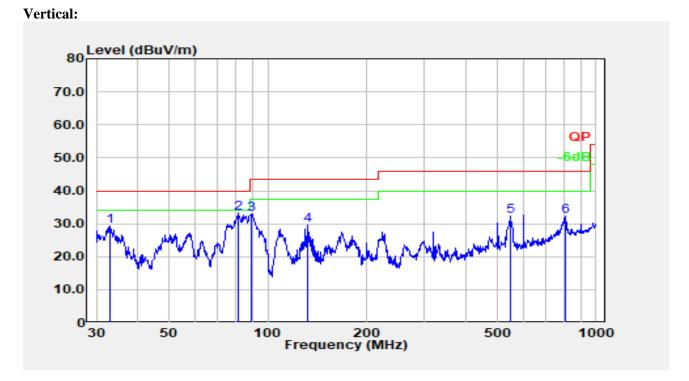
Note: Simultaneous transmission please refer to the report CR21090075-00B.

1) 30MHz-1GHz(Low channel was the worst)

Horizontal:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	78.965	42.36	-17.60	24.76	40.00	15.24	Peak
2	167.237	44.22	-12.94	31.28	43.50	12.22	Peak
3	199.986	44.98	-12.37	32.61	43.50	10.89	Peak
4	300.367	47.58	-10.81	36.77	46.00	9.23	Peak
5	601.427	41.49	-5.27	36.21	46.00	9.79	Peak
6	793.396	40.15	-2.51	37.65	46.00	8.35	Peak



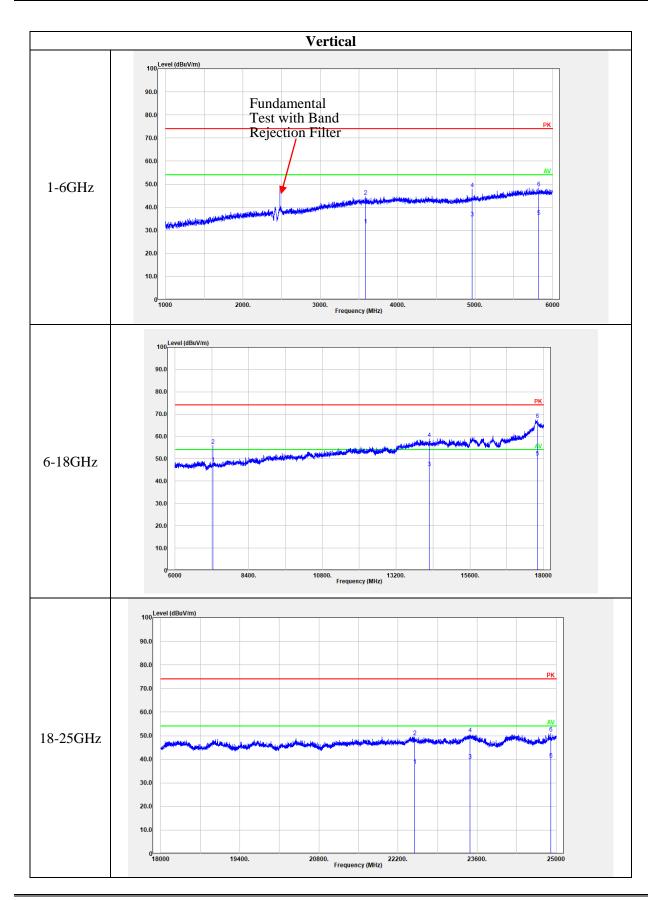
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	33.095	35.35	-6.19	29.16	40.00	10.84	Peak
2	81.212	50.91	-17.63	33.29	40.00	6.71	Peak
3	88.964	50.29	-17.25	33.04	43.50	10.46	Peak
4	132.685	41.20	-11.73	29.47	43.50	14.03	Peak
5	549.020	38.26	-6.02	32.24	46.00	13.76	Peak
6	804.603	34.59	-2.42	32.17	46.00	13.83	Peak

2) 1-25GHz:

1-25GHZ:		•						
Frequency	Receiver		Polar	Factor	Result	Limit	Margin	
(MHz)	Reading (dBµV)	Detector	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
	Low Channel: 2402 MHz							
2390.00	29.87	PK	Н	31.46	61.33	74.00	12.67	
2390.00	19.47	AV	Н	31.46	50.93	54.00	3.07	
4804.00	40.26	PK	Н	10.91	51.17	74.00	22.83	
4804.00	35.47	AV	Н	10.91	46.38	54.00	7.62	
7206.00	36.58	PK	Н	14.22	50.80	74.00	23.20	
7206.00	29.36	AV	Н	14.22	43.58	54.00	10.42	
		N	Middle Ch	annel: 2440 MI	Hz			
4880.00	39.58	PK	Н	11.07	50.65	74.00	23.35	
4880.00	34.12	AV	Н	11.07	45.19	54.00	8.81	
7320.00	37.11	PK	Н	14.80	51.91	74.00	22.09	
7320.00	28.14	AV	Н	14.80	42.94	54.00	11.06	
			High Cha	nnel: 2480 MH	Z			
2483.50	28.47	PK	Н	31.64	60.11	74.00	13.89	
2483.50	17.55	AV	Н	31.64	49.19	54.00	4.81	
4960.00	37.14	PK	Н	11.23	48.37	74.00	25.63	
4960.00	31.02	AV	Н	11.23	42.25	54.00	11.75	
7440.00	36.58	PK	Н	15.26	51.84	74.00	22.16	
7440.00	26.36	AV	Н	15.26	41.62	54.00	12.38	

Worst Test plots(High channel was the worst) Horizontal Fundamental 90.0 Test with Band Rejection Filter 80.0 70.0 60.0 50.0 1-6GHz 40.0 20.0 10.0 3000. Frequency (MHz) 90.0 80.0 70.0 60.0 6-18GHz 50.0 40.0 30.0 20.0 10.0 10800. Frequency (MHz) 13200. 15600. 90.0 80.0 70.0 60.0 50.0 18-25GHz 40.0 30.0 20.0 10.0 20800. Frequency (MHz) 22200. 19400.

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4.3 Spot Check With Maximum peak conducted output power:

	10 10 10 10 10 10 10 10 10 10 10 10 10 1						
Serial Number:	CR21090075-RF-S1	Test Date:	2021.12.26				
Test Site:	RF	Test Mode:	Transmitting				
Tester:	Great Qiao	Test Result:	Pass				

Report No.: CR21090075-00A

Environmental Conditions:								
Temperature: $(^{\mathbb{C}})$	22.0	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.3			

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
	2402	-2.59	30
BLE	2440	-3.68	30
	2480	-3.87	30

***** END OF REPORT *****