



FCC RF Test Report

APPLICANT : Veea Inc.
EQUIPMENT : Wireless Edge Server
BRAND NAME : VeeaHub
MODEL NAME : VHC25-5G
FCC ID : 2ARXK-VHC25-5G
STANDARD : 47 CFR Part 27 Subpart O (3700-3980MHz)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Jul. 23, 2024 ~ Sep. 11, 2024

This product installed a RF module (Brand Name: Quectel, Model Name: RM520N-GL, FCC ID: XMR2022RM520NGL) during the test, only Conducted Power, EIRP and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test	5
1.4 Product Specification of Equipment Under Test	5
1.5 Modification of EUT	5
1.6 Maximum EIRP and Emission Designator	6
1.7 Testing Location	6
1.8 Test Software	7
1.9 Applicable Standards	7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1 Test Mode	8
2.2 Connection Diagram of Test System	9
2.3 Support Unit used in test configuration and system	9
2.4 Frequency List of Low/Middle/High Channels	9
3 CONDUCTED TEST ITEMS	11
3.1 Measuring Instruments	11
3.2 Test Setup	11
3.3 Test Result of Conducted Test	11
3.4 Conducted Output Power and EIRP	12
4 RADIATED TEST ITEMS	13
4.1 Measuring Instruments	13
4.2 Test Setup	13
4.3 Test Result of Radiated Test	14
4.4 Radiated Spurious Emission	15
5 LIST OF MEASURING EQUIPMENT	16
6 MEASUREMENT UNCERTAINTY	17
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG452231G	Rev. 01	Initial issue of report	Sep. 18, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power	EIRP < 1Watt		
-	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
-	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	1
-	§2.1051 §27.53(l)(2)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	1
-	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	1
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 39.17 dB at 11223.000 MHz

Remark 1: All test results were leveraged from module RF report which can refer to Report No “SEWA2204000008RG01”.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Veea Inc.

164 E 83rd Street, NEW YORK, United States 10028

1.2 Manufacturer

Veea Inc.

164 E 83rd Street, NEW YORK, United States 10028

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Edge Server
Brand Name	VeeaHub
Model Name	VHC25-5G
FCC ID	2ARXK-VHC25-5G
IMEI Code	Radiation: 868371051683288
HW Version	1.0
SW Version	2.33.1-0.mfg.alpha.4.0.7
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	LTE Band 43: 3700 MHz ~ 3800 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 43 : 22.69 dBm LTE CA_43C : 22.66 dBm
Antenna Gain	<Ant. 2>: 2.83 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Remark: The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP of Antenna 0 is shown in the report.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum EIRP and Emission Designator

LTE Band 43		QPSK	16QAM/64QAM/256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
5	3702.5 ~ 3797.5	0.3532	0.2818
10	3705.0 ~ 3795.0	0.3467	0.2806
15	3707.5 ~ 3792.5	0.3516	0.2754
20	3710.0 ~ 3790.0	0.3565	0.2793

LTE Band 43 CA		QPSK	16QAM/64QAM/256QAM
BW (MHz)		Maximum EIRP(W)	Maximum EIRP(W)
20MHz+20MHz		0.3542	0.2754
20MHz+15MHz		0.3499	0.2630
15MHz+20MHz		0.3451	0.2624
20MHz+10MHz		0.3475	0.2698
10MHz+20MHz		0.3436	0.2661
20MHz+5MHz		0.3436	0.2673
5MHz+20MHz		0.3524	0.2667

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24al

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X Plane)

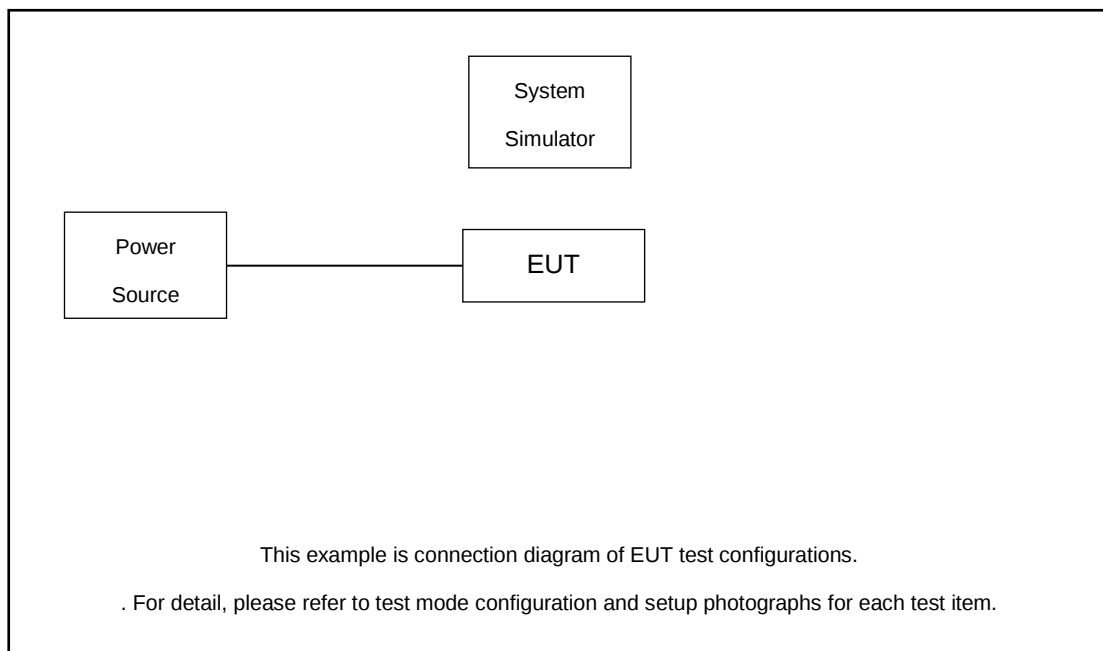
Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	LTE Band 43	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, M, H
E.I.R.P	LTE Band 43	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, M, H
Radiated Spurious Emission	LTE Band 43	Worst case from maximum power			M

Note:

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	43C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v			v	v	v
E.I.R.P.	43C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v			v	v	v
Radiated Spurious Emission	43C_CA	Worst Case																			v
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "- " means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																				

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

LTE Band 43 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	44690	45090	45490
	Frequency	3710	3750	3790
15	Channel	44665	45090	45515
	Frequency	3707.5	3750	3792.5
10	Channel	44640	45090	45540
	Frequency	3705	3750	3795
5	Channel	44615	45090	45565
	Frequency	3702.5	3750	3797.5



LTE Band 43C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	44690	44991	45292
		Frequency	3710	3740.1	3770.2
	SCC	Channel	44888	45189	45490
		Frequency	3729.8	3759.9	3790
20 + 15	PCC	Channel	44690	45016	45341
		Frequency	3710	3742.6	3775.1
	SCC	Channel	44861	45187	45512
		Frequency	3727.1	3759.7	3792.2
15 + 20	PCC	Channel	44668	44993	45319
		Frequency	3707.8	3740.3	3772.9
	SCC	Channel	44839	45164	45490
		Frequency	3724.9	3757.4	3790
20 + 10	PCC	Channel	44690	45041	45391
		Frequency	3710	3745.1	3780.1
	SCC	Channel	44834	45185	45535
		Frequency	3724.4	3759.5	3794.5
10 + 20	PCC	Channel	44645	44996	45346
		Frequency	3705.5	3740.6	3755.6
	SCC	Channel	44789	45140	45490
		Frequency	3719.9	3755	3790
20 + 5	PCC	Channel	44690	45065	45440
		Frequency	3710	3747.5	3785
	SCC	Channel	44807	45182	45557
		Frequency	3721.7	3759.2	3796.7
5 + 20	PCC	Channel	44623	44998	45373
		Frequency	3703.3	3740.8	3778.3
	SCC	Channel	44740	45115	45490
		Frequency	3715	3752.5	3790

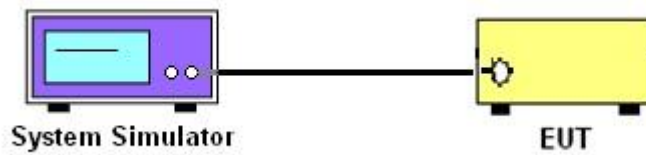
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77, n78.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

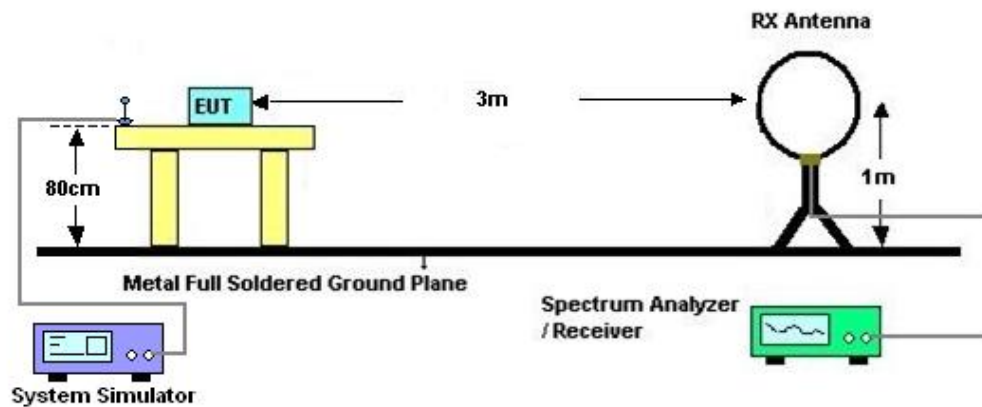
4 Radiated Test Items

4.1 Measuring Instruments

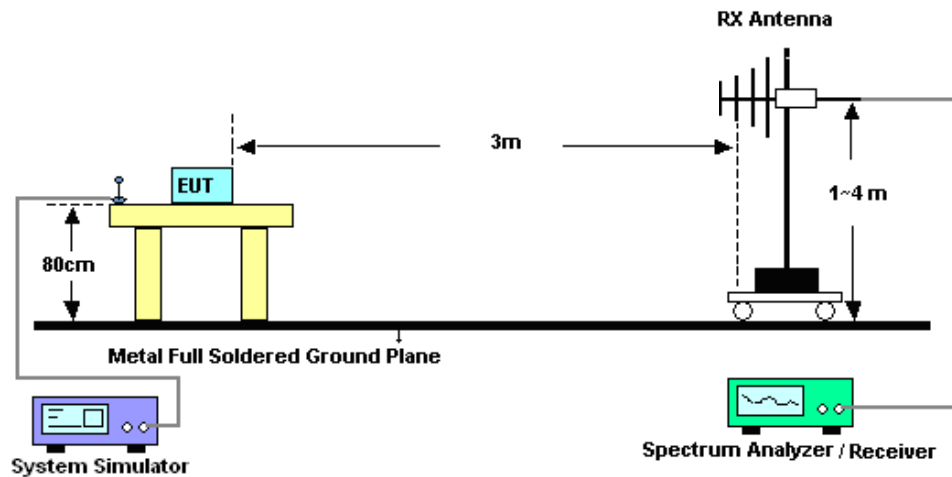
See list of measuring instruments of this test report.

4.2 Test Setup

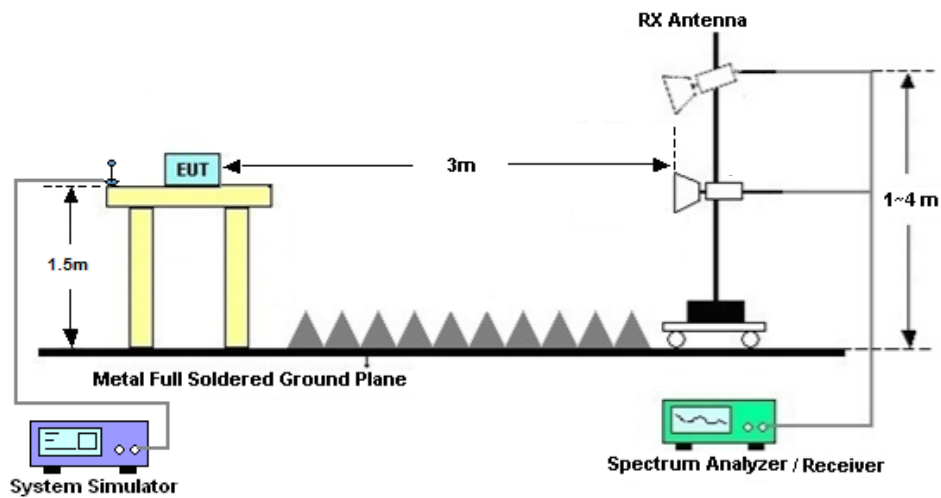
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
10. $ERP \text{ (dBm)} = EIRP - 2.15$
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Sep. 11, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Sep. 11, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Jul. 23, 2024	Dec. 28, 2024	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Jul. 23, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Jul. 23, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jul. 23, 2024	Jul. 02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Jul. 23, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Jul. 23, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 23, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 23, 2024	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	±3.0 dB
---	---------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	±3.6 dB
---	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	±3.8 dB
---	---------

----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

LTE Band 43:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				44690	45090	45490			
Frequency (MHz)				3710	3750	3790	L	M	H
20	QPSK	1	0	22.69	22.51	22.44	0.3565	0.3420	0.3365
20	QPSK	1	49	22.64	22.42	22.37	0.3524	0.3350	0.3311
20	QPSK	1	99	22.53	22.30	22.36	0.3436	0.3258	0.3304
20	QPSK	50	0	21.72	21.43	21.56	0.2851	0.2667	0.2748
20	QPSK	50	24	21.58	21.26	21.52	0.2761	0.2564	0.2723
20	QPSK	50	50	21.55	21.28	21.51	0.2742	0.2576	0.2716
20	QPSK	100	0	21.49	21.48	21.42	0.2704	0.2698	0.2661
20	16QAM	1	0	21.63	21.35	21.48	0.2793	0.2618	0.2698
20	64QAM	1	0	20.63	20.48	20.55	0.2218	0.2143	0.2178
20	256QAM	1	0	17.60	17.48	17.58	0.1104	0.1074	0.1099
Channel				44665	45090	45515	EIRP(W)		
Frequency (MHz)				3707.5	3750	3792.5	L	M	H
15	QPSK	1	0	22.63	22.51	22.45	0.3516	0.3420	0.3373
15	16QAM	1	0	21.57	21.46	21.41	0.2754	0.2685	0.2655
Channel				44640	45090	45540	EIRP(W)		
Frequency (MHz)				3705	3750	3795	L	M	H
10	QPSK	1	0	22.57	22.39	22.54	0.3467	0.3327	0.3443
10	16QAM	1	0	21.65	21.39	21.48	0.2805	0.2642	0.2698
Channel				44615	45090	45565	EIRP(W)		
Frequency (MHz)				3702.5	3750	3797.5	L	M	H
5	QPSK	1	0	22.65	22.50	22.44	0.3532	0.3412	0.3365
5	16QAM	1	0	21.67	21.35	21.44	0.2818	0.2618	0.2673



LTE Band 43C_CA:

Combination 20MHz+20MHz (100RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	44690_44888	QPSK	1	Max	1	0	22.66	0.3540
M	44991_45189	QPSK	1	Max	1	0	22.53	0.3436
H	45292_45490	QPSK	1	Max	1	0	22.39	0.3327
L	44690_44888	16QAM	1	Max	1	0	21.49	0.2704
M	44991_45189	16QAM	1	Max	1	0	21.46	0.2685
H	45292_45490	16QAM	1	Max	1	0	21.57	0.2754
L	44690_44888	64QAM	1	Max	1	0	20.49	0.2148
M	44991_45189	64QAM	1	Max	1	0	20.63	0.2218
H	45292_45490	64QAM	1	Max	1	0	20.62	0.2213
L	44690_44888	256QAM	1	Max	1	0	17.58	0.1099
M	44991_45189	256QAM	1	Max	1	0	17.62	0.1109
H	45292_45490	256QAM	1	Max	1	0	17.63	0.1112
Combination 20MHz+15MHz (100RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	45016_45187	QPSK	1	Max	1	0	22.61	0.3499
H	45016_45187	16QAM	1	Max	1	0	21.37	0.2630
Combination 15MHz+20MHz (100RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	44993_45164	QPSK	1	Max	1	0	22.55	0.3451
H	44993_45164	16QAM	1	Max	1	0	21.36	0.2624
Combination 20MHz+10MHz (100RB+50RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	45041_45185	QPSK	1	Max	1	0	22.58	0.3475
H	45041_45185	16QAM	1	Max	1	0	21.48	0.2698
Combination 10MHz+20MHz (50RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	44996_45140	QPSK	1	Max	1	0	22.53	0.3436
H	44996_45140	16QAM	1	Max	1	0	21.42	0.2661
Combination 20MHz+5MHz (100RB+25RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	45065_45182	QPSK	1	Max	1	0	22.53	0.3436
H	45065_45182	16QAM	1	Max	1	0	21.44	0.2673
Combination 5MHz+20MHz (25RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	44998_45115	QPSK	1	Max	1	0	22.64	0.3524
H	44998_45115	16QAM	1	Max	1	0	21.43	0.2667



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25°C
		Relative Humidity :	48~52%

LTE Band 43 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7482.00	-57.76	-13	-44.76	-54.96	-61.06	8.30	11.60	H
	11223.00	-52.32	-13	-39.32	-57.28	-53.84	10.48	12.00	H
	14964.00	-52.93	-13	-39.93	-59.05	-54.63	11.80	13.50	H
	7482.00	-58.40	-13	-45.40	-55.53	-61.70	8.30	11.60	V
	11223.00	-52.17	-13	-39.17	-56.89	-53.69	10.48	12.00	V
	14964.00	-52.59	-13	-39.59	-59.09	-54.29	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band CA_43C / 20MHz+20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7439.80	-58.73	-13	-45.73	-56.06	-62.03	8.30	11.60	H
	11159.70	-52.37	-13	-39.37	-57.06	-53.89	10.48	12.00	H
	14879.60	-53.10	-13	-40.10	-59.47	-54.80	11.80	13.50	H
	7439.80	-58.49	-13	-45.49	-55.81	-61.79	8.30	11.60	V
	11159.70	-52.62	-13	-39.62	-57.04	-54.14	10.48	12.00	V
	14879.60	-52.84	-13	-39.84	-59.48	-54.54	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.