

FCC RF Test Report

APPLICANT : Dexter Axle
EQUIPMENT : DEX 102
BRAND NAME : DEXTER
MODEL NAME : DEX-102
FCC ID : 2BOIO-DEX102
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Apr. 09, 2025 ~ Apr. 11, 2025

This product installed a RF module (Brand Name: Quectel, Model Name: BG95-M3, BG95-M3 MINIPCIE , FCC ID: XMR201910BG95M3) during the test, only Conducted Power, ERP/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.



Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG531715B	Rev. 01	Initial issue of report	Jun. 24, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	ERP < 3 Watt		-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		-
-	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	-	Report Only	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13)	< 43+10log10(P[Watts])	PASS	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13)	< 43+10log10(P[Watts])	PASS	1
-	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 0.31 dB at 1559.50 MHz

Remark 1: The conducted test results were leveraged from module RF report which can refer to Report No. R2106A0549-R1 & R2106A0549-R2& R2106A0549-R3.

Conformity Assessment Condition:

- 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.
- 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

Dexter Axle

2900 Industrial parkway; Elkhart, IN 46515

1.2 Manufacturer

Shenzhen Xiyuan Electronic Technology Co.,Ltd.

Room 602, Huachuangda Business Building, Cuizhu Road, 46 District, Bao'an District, Shenzhen ,
Guangdong province, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	DEX 102
Brand Name	DEXTER
Model Name	DEX-102
FCC ID	2BOIO-DEX102
SN	zxErIC4c
HW Version	V 2.3
SW Version	V 0.1.11
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 2 : 19.89 dBm LTE Band 4 : 19.99 dBm LTE Band 5 : 20.21 dBm LTE Band 12 : 20.44 dBm



Antenna Gain	LTE Band 13 : 20.51 dBm
	LTE Band 2 : 2.74 dBi
	LTE Band 4 : 3.36 dBi
	LTE Band 5 : -2.4 dBi
	LTE Band 12 : -1.4 dBi
	LTE Band 13 : 1.06 dBi
Type of Modulation	QPSK / 16QAM

Remark: The device support LTE Category M1.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP

LTE Band 2		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	0.1770	0.1618
3	1851.5 ~ 1908.5	0.1791	0.1578
5	1852.5 ~ 1907.5	0.1622	0.1832
10	1855.0 ~ 1905.0	0.1656	0.1758
15	1857.5 ~ 1902.5	0.1611	0.1718
20	1860.0 ~ 1900.0	0.1614	0.1714
LTE Band 4		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	0.1807	0.1871
3	1711.5 ~ 1753.5	0.1803	0.1837
5	1712.5 ~ 1752.5	0.2032	0.2153
10	1715.0 ~ 1750.0	0.2056	0.2163
15	1717.5 ~ 1747.5	0.2037	0.2138
20	1720.0 ~ 1745.0	0.2061	0.2148
LTE Band 5		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	824.7 ~ 848.3	0.0331	0.0283
3	825.5 ~ 847.5	0.0337	0.0280
5	826.5 ~ 846.5	0.0352	0.0363
10	829.0 ~ 844.0	0.0340	0.0368

LTE Band 12		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	699.7 ~ 715.3	0.0488	0.0486
3	700.5 ~ 714.5	0.0486	0.0484
5	701.5 ~ 713.5	0.0476	0.0485
10	704.0 ~ 711.0	0.0483	0.0489
LTE Band 13		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
5	779.5 ~ 784.5	0.0822	0.0875
10	782.0	0.0813	0.0863

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	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.
	TH01-SZ, 03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a



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 22(H), 24(E), 27(L), 27(H), 27(F)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

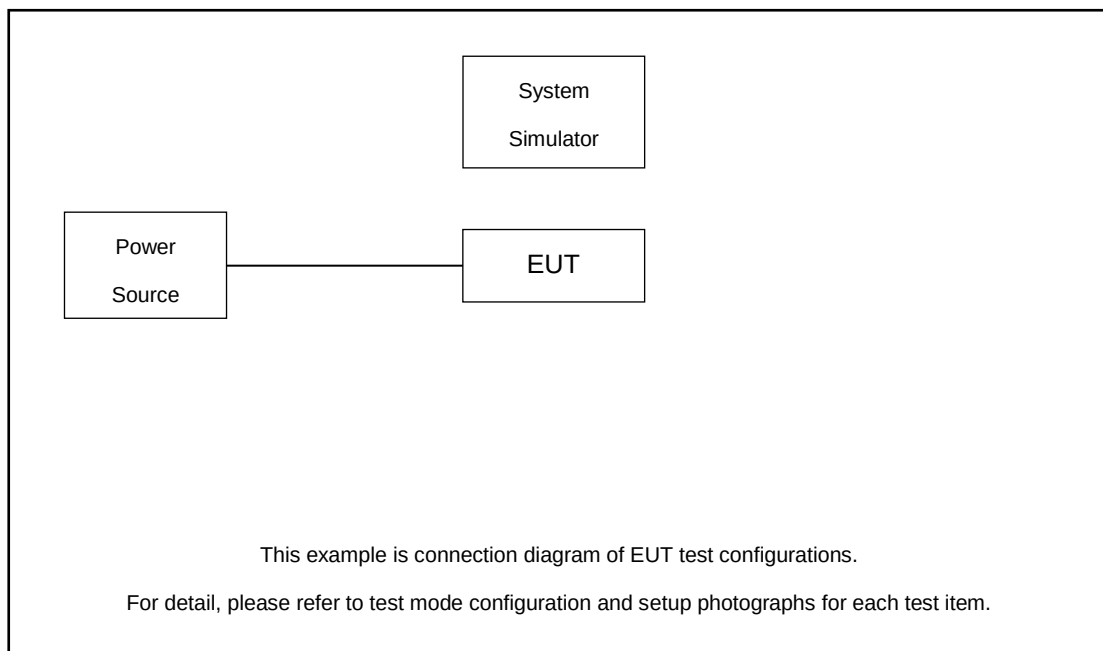
2.1 Test Mode

Antenna port conducted and radiated test items listed below 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.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	-	v	v	v	v	v	v
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	-	v	v	v	v	v	v
Radiated Spurious Emission	2	Worst Case												v	v	v
	4	Worst Case												v	v	v
	5	Worst Case												v	v	v
	12	Worst Case												v	v	v
	13	Worst Case												v	v	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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

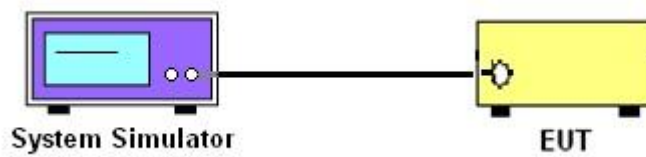
3 Conducted Test Items

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 ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/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 ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

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.

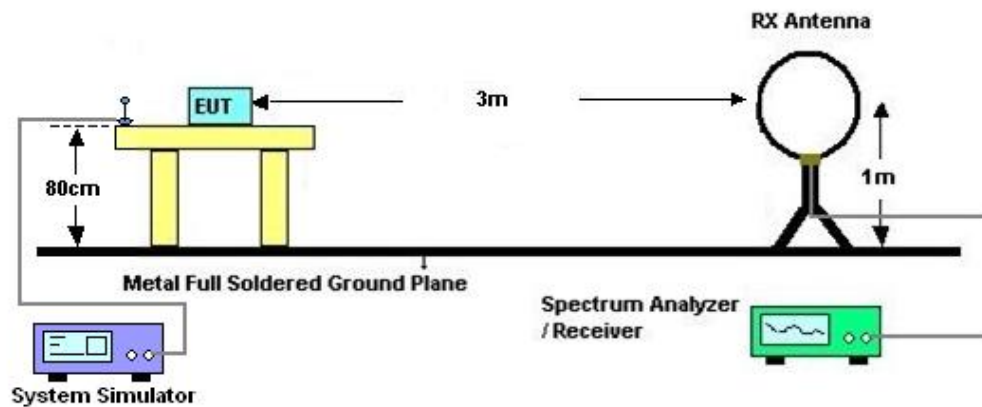
4 Radiated Test Items

4.1 Measuring Instruments

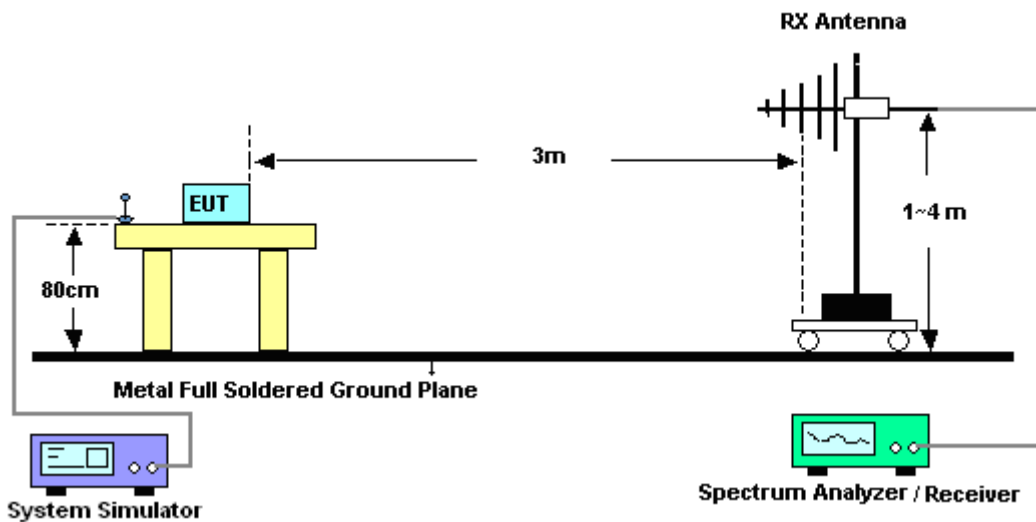
See list of measuring instruments of this test report.

4.2 Test Setup

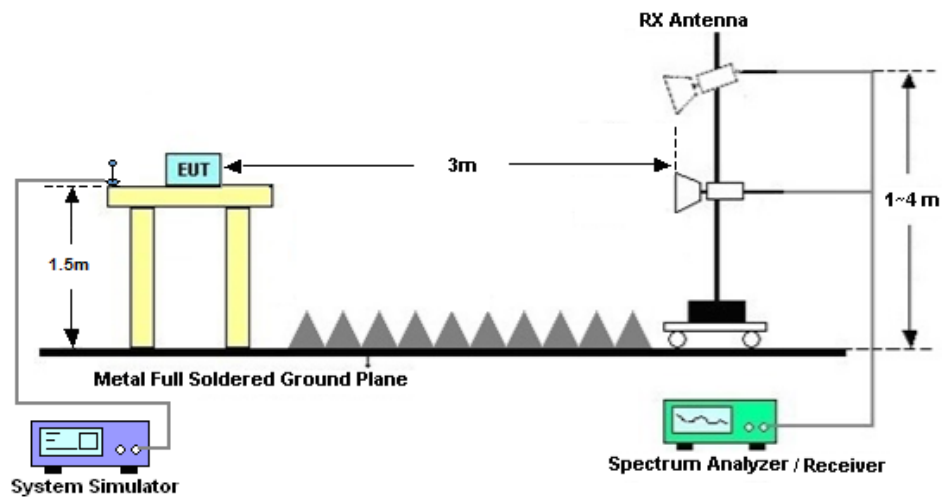
4.2.1 For radiated test below 30MHz



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.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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
2. 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.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. 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. 08, 2025	Apr. 11, 2025	Apr. 07, 2026	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Apr. 11, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Apr. 09, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Apr. 09, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Apr. 09, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Apr. 09, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Apr. 09, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2025	Apr. 09, 2025	Apr. 07, 2026	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Apr. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Apr. 09, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Apr. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Apr. 09, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Apr. 09, 2025	NCR	Radiation (03CH02-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 (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	19.10	19.34	19.25	0.1528	0.1614	0.1581
20	QPSK	1	5	18.91	19.12	19.01	0.1462	0.1535	0.1496
20	QPSK	3	0	19.04	19.22	19.14	0.1507	0.1570	0.1542
20	QPSK	3	3	18.96	19.21	19.13	0.1479	0.1567	0.1538
20	QPSK	6	0	19.01	19.27	19.12	0.1496	0.1589	0.1535
20	16QAM	1	0	19.34	19.60	19.50	0.1614	0.1714	0.1675
20	16QAM	1	5	19.30	19.48	19.36	0.1600	0.1667	0.1622
20	16QAM	3	0	19.10	19.35	19.25	0.1528	0.1618	0.1581
20	16QAM	3	3	19.05	19.25	19.14	0.1510	0.1581	0.1542
20	16QAM	5	0	19.12	19.37	19.29	0.1535	0.1626	0.1596
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	19.04	19.33	19.25	0.1507	0.1611	0.1581
15	QPSK	1	5	18.96	19.18	19.06	0.1479	0.1556	0.1514
15	QPSK	3	0	18.92	19.28	19.13	0.1466	0.1592	0.1538
15	QPSK	3	3	18.88	19.21	19.03	0.1452	0.1567	0.1503
15	QPSK	6	0	18.95	19.27	19.10	0.1476	0.1589	0.1528
15	16QAM	1	0	19.31	19.61	19.50	0.1603	0.1718	0.1675
15	16QAM	1	5	19.23	19.48	19.36	0.1574	0.1667	0.1622
15	16QAM	3	0	19.03	19.38	19.21	0.1503	0.1629	0.1567
15	16QAM	3	3	18.94	19.29	19.18	0.1472	0.1596	0.1556
15	16QAM	5	0	19.13	19.43	19.26	0.1538	0.1648	0.1585
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	19.16	19.45	19.28	0.1549	0.1656	0.1592
10	QPSK	1	5	18.95	19.27	19.11	0.1476	0.1589	0.1531
10	QPSK	3	0	19.04	19.39	19.26	0.1507	0.1633	0.1585
10	QPSK	3	3	19.02	19.29	19.13	0.1500	0.1596	0.1538
10	QPSK	6	0	18.44	18.75	18.47	0.1312	0.1409	0.1321
10	16QAM	1	0	19.42	19.71	19.57	0.1644	0.1758	0.1702
10	16QAM	1	5	19.30	19.58	19.45	0.1600	0.1706	0.1656
10	16QAM	3	0	19.13	19.42	19.33	0.1538	0.1644	0.1611
10	16QAM	3	3	19.07	19.37	19.24	0.1517	0.1626	0.1578
10	16QAM	5	0	19.18	19.49	19.40	0.1556	0.1671	0.1637
Channel				18625	18900	19175	EIRP(W)		



Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	19.16	19.36	19.23	0.1549	0.1622	0.1574
5	QPSK	1	5	18.96	19.21	19.08	0.1479	0.1567	0.1521
5	QPSK	3	0	19.09	19.36	19.17	0.1524	0.1622	0.1552
5	QPSK	3	3	18.99	19.27	19.12	0.1489	0.1589	0.1535
5	QPSK	6	0	18.43	18.67	18.46	0.1309	0.1384	0.1318
5	16QAM	1	0	19.40	19.89	19.55	0.1637	0.1832	0.1694
5	16QAM	1	5	19.28	19.77	19.40	0.1592	0.1782	0.1637
5	16QAM	3	0	19.15	19.61	19.29	0.1545	0.1718	0.1596
5	16QAM	3	3	19.07	19.53	19.17	0.1517	0.1687	0.1552
5	16QAM	5	0	18.51	18.83	18.60	0.1334	0.1435	0.1361
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	19.60	19.71	19.79	0.1714	0.1758	0.1791
3	QPSK	1	5	19.45	19.50	19.66	0.1656	0.1675	0.1738
3	QPSK	3	0	18.54	19.05	18.68	0.1343	0.1510	0.1387
3	QPSK	3	3	18.30	18.60	18.39	0.1271	0.1361	0.1297
3	QPSK	6	0	17.34	17.64	17.47	0.1019	0.1091	0.1050
3	16QAM	1	0	18.84	19.24	19.07	0.1439	0.1578	0.1517
3	16QAM	1	5	18.63	19.04	18.85	0.1371	0.1507	0.1442
3	16QAM	3	0	17.53	18.02	17.69	0.1064	0.1191	0.1104
3	16QAM	3	3	17.44	17.90	17.55	0.1042	0.1159	0.1069
3	16QAM	5	0	17.54	17.99	17.70	0.1067	0.1183	0.1107
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	19.66	19.73	19.37	0.1738	0.1766	0.1626
1.4	QPSK	1	5	19.45	19.44	19.74	0.1656	0.1652	0.1770
1.4	QPSK	3	0	18.43	18.74	18.61	0.1309	0.1406	0.1365
1.4	QPSK	3	3	18.28	18.58	18.43	0.1265	0.1355	0.1309
1.4	QPSK	6	0	17.35	17.75	17.57	0.1021	0.1119	0.1074
1.4	16QAM	1	0	18.89	19.35	19.14	0.1455	0.1618	0.1542
1.4	16QAM	1	5	18.69	19.07	18.88	0.1390	0.1517	0.1452
1.4	16QAM	3	0	17.54	18.00	17.72	0.1067	0.1186	0.1112
1.4	16QAM	3	3	17.39	17.96	17.56	0.1030	0.1175	0.1072
1.4	16QAM	5	0	17.54	17.81	17.75	0.1067	0.1135	0.1119

LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	19.78	19.27	19.07	0.2061	0.1832	0.1750
20	QPSK	1	5	19.63	19.17	18.99	0.1991	0.1791	0.1718
20	QPSK	3	0	19.57	19.26	18.97	0.1963	0.1828	0.1710
20	QPSK	3	3	19.60	19.12	19.03	0.1977	0.1770	0.1734
20	QPSK	6	0	19.62	19.15	19.28	0.1986	0.1782	0.1837
20	16QAM	1	0	19.96	19.75	19.44	0.2148	0.2046	0.1905
20	16QAM	1	5	19.83	19.42	19.49	0.2084	0.1897	0.1928
20	16QAM	3	0	19.71	19.39	19.25	0.2028	0.1884	0.1824



20	16QAM	3	3	19.65	19.34	19.21	0.2000	0.1862	0.1807
20	16QAM	5	0	19.62	19.41	19.26	0.1986	0.1892	0.1828
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	19.73	19.28	19.25	0.2037	0.1837	0.1824
15	QPSK	1	5	19.62	19.11	19.21	0.1986	0.1766	0.1807
15	QPSK	3	0	19.68	19.24	19.25	0.2014	0.1820	0.1824
15	QPSK	3	3	19.39	19.06	19.31	0.1884	0.1746	0.1849
15	QPSK	6	0	19.63	19.14	19.70	0.1991	0.1778	0.2023
15	16QAM	1	0	19.94	19.73	19.52	0.2138	0.2037	0.1941
15	16QAM	1	5	19.88	19.52	19.42	0.2109	0.1941	0.1897
15	16QAM	3	0	19.85	19.53	19.29	0.2094	0.1945	0.1841
15	16QAM	3	3	19.61	19.36	19.35	0.1982	0.1871	0.1866
15	16QAM	5	0	19.60	19.51	19.33	0.1977	0.1936	0.1858
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	19.77	19.16	19.36	0.2056	0.1786	0.1871
10	QPSK	1	5	19.69	19.01	19.14	0.2018	0.1726	0.1778
10	QPSK	3	0	19.70	19.11	19.20	0.2023	0.1766	0.1803
10	QPSK	3	3	19.44	19.05	19.22	0.1905	0.1742	0.1811
10	QPSK	6	0	19.12	18.59	18.43	0.1770	0.1567	0.1510
10	16QAM	1	0	19.99	19.78	19.66	0.2163	0.2061	0.2004
10	16QAM	1	5	19.80	19.21	19.44	0.2070	0.1807	0.1905
10	16QAM	3	0	19.68	19.35	19.35	0.2014	0.1866	0.1866
10	16QAM	3	3	19.77	19.29	19.32	0.2056	0.1841	0.1854
10	16QAM	5	0	19.82	19.40	19.51	0.2080	0.1888	0.1936
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	19.70	19.15	19.33	0.2023	0.1782	0.1858
5	QPSK	1	5	19.72	19.02	19.16	0.2032	0.1730	0.1786
5	QPSK	3	0	19.52	19.10	19.29	0.1941	0.1762	0.1841
5	QPSK	3	3	19.56	19.01	19.18	0.1959	0.1726	0.1795
5	QPSK	6	0	18.88	18.44	18.47	0.1675	0.1514	0.1524
5	16QAM	1	0	19.97	19.62	19.64	0.2153	0.1986	0.1995
5	16QAM	1	5	19.82	19.52	19.38	0.2080	0.1941	0.1879
5	16QAM	3	0	19.80	19.37	19.17	0.2070	0.1875	0.1791
5	16QAM	3	3	19.78	19.27	19.27	0.2061	0.1832	0.1832
5	16QAM	5	0	19.06	18.56	18.72	0.1746	0.1556	0.1614
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	19.20	18.86	18.70	0.1803	0.1667	0.1607
3	QPSK	1	5	18.98	18.58	18.60	0.1714	0.1563	0.1570
3	QPSK	3	0	19.04	18.57	18.71	0.1738	0.1560	0.1611
3	QPSK	3	3	18.86	18.40	18.51	0.1667	0.1500	0.1538
3	QPSK	6	0	18.98	18.53	18.62	0.1714	0.1545	0.1578
3	16QAM	1	0	19.28	18.98	18.88	0.1837	0.1714	0.1675
3	16QAM	1	5	19.00	18.66	18.66	0.1722	0.1592	0.1592
3	16QAM	3	0	19.07	18.70	18.70	0.1750	0.1607	0.1607
3	16QAM	3	3	18.99	18.64	18.72	0.1718	0.1585	0.1614
3	16QAM	5	0	19.15	18.84	18.90	0.1782	0.1660	0.1683



Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	19.21	18.85	18.98	0.1807	0.1663	0.1714
1.4	QPSK	1	5	19.03	18.74	18.69	0.1734	0.1622	0.1603
1.4	QPSK	3	0	19.20	18.65	18.65	0.1803	0.1589	0.1589
1.4	QPSK	3	3	18.93	18.42	18.45	0.1694	0.1507	0.1517
1.4	QPSK	6	0	18.08	17.71	17.71	0.1393	0.1279	0.1279
1.4	16QAM	1	0	19.36	18.92	19.01	0.1871	0.1690	0.1726
1.4	16QAM	1	5	19.14	18.71	18.78	0.1778	0.1611	0.1637
1.4	16QAM	3	0	19.13	18.77	18.85	0.1774	0.1633	0.1663
1.4	16QAM	3	3	19.10	18.70	18.77	0.1762	0.1607	0.1633
1.4	16QAM	5	0	19.12	18.76	18.84	0.1770	0.1629	0.1660

LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	19.69	19.75	19.82	0.0327	0.0331	0.0337
10	QPSK	1	5	19.50	19.53	19.71	0.0313	0.0315	0.0328
10	QPSK	3	0	19.62	19.70	19.86	0.0321	0.0327	0.0340
10	QPSK	3	3	19.50	19.55	19.72	0.0313	0.0316	0.0329
10	QPSK	6	0	18.97	18.95	19.09	0.0277	0.0275	0.0284
10	16QAM	1	0	19.95	19.97	20.21	0.0347	0.0348	0.0368
10	16QAM	1	5	19.75	19.80	19.96	0.0331	0.0335	0.0348
10	16QAM	3	0	19.64	19.69	19.92	0.0323	0.0327	0.0344
10	16QAM	3	3	19.53	19.55	19.76	0.0315	0.0316	0.0332
10	16QAM	6	0	19.67	19.70	19.93	0.0325	0.0327	0.0345
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	19.83	19.67	20.02	0.0337	0.0325	0.0352
5	QPSK	1	5	19.58	19.50	19.87	0.0318	0.0313	0.0340
5	QPSK	3	0	19.71	19.63	19.84	0.0328	0.0322	0.0338
5	QPSK	3	3	19.60	19.49	19.73	0.0320	0.0312	0.0330
5	QPSK	6	0	18.99	18.94	18.99	0.0278	0.0275	0.0278
5	16QAM	1	0	19.97	19.91	20.15	0.0348	0.0344	0.0363
5	16QAM	1	5	19.81	19.74	19.97	0.0336	0.0330	0.0348
5	16QAM	3	0	19.68	19.62	19.88	0.0326	0.0321	0.0341
5	16QAM	3	3	19.57	19.52	19.75	0.0318	0.0314	0.0331
5	16QAM	6	0	19.16	19.06	19.22	0.0289	0.0282	0.0293
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	19.51	19.51	19.82	0.0313	0.0313	0.0337
3	QPSK	1	5	19.24	19.24	19.59	0.0294	0.0294	0.0319
3	QPSK	3	0	18.52	18.47	18.83	0.0249	0.0247	0.0268
3	QPSK	3	3	18.23	18.08	18.54	0.0233	0.0225	0.0251
3	QPSK	6	0	17.36	17.28	17.63	0.0191	0.0187	0.0203
3	16QAM	1	0	18.73	18.78	19.02	0.0262	0.0265	0.0280
3	16QAM	1	5	18.60	18.51	18.90	0.0254	0.0249	0.0272



3	16QAM	3	0	17.42	17.47	17.86	0.0194	0.0196	0.0214
3	16QAM	3	3	17.37	17.28	17.72	0.0191	0.0187	0.0207
3	16QAM	6	0	17.47	17.53	17.62	0.0196	0.0199	0.0203
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	19.63	19.66	19.75	0.0322	0.0324	0.0331
1.4	QPSK	1	5	19.52	19.36	19.62	0.0314	0.0303	0.0321
1.4	QPSK	3	0	18.54	18.55	18.81	0.0251	0.0251	0.0267
1.4	QPSK	3	3	18.36	18.25	18.48	0.0240	0.0234	0.0247
1.4	QPSK	6	0	17.48	17.38	17.67	0.0196	0.0192	0.0205
1.4	16QAM	1	0	18.84	18.89	19.07	0.0269	0.0272	0.0283
1.4	16QAM	1	5	18.75	18.69	18.93	0.0263	0.0259	0.0274
1.4	16QAM	3	0	17.71	17.57	17.77	0.0207	0.0200	0.0210
1.4	16QAM	3	3	17.58	17.49	17.66	0.0201	0.0197	0.0205
1.4	16QAM	6	0	17.61	17.35	17.57	0.0202	0.0191	0.0200

LTE Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	20.27	20.30	20.39	0.0470	0.0473	0.0483
10	QPSK	1	5	20.07	20.15	20.21	0.0449	0.0457	0.0463
10	QPSK	3	0	20.25	20.27	20.32	0.0468	0.0470	0.0475
10	QPSK	3	3	20.06	20.15	20.24	0.0448	0.0457	0.0467
10	QPSK	6	0	19.55	19.59	19.67	0.0398	0.0402	0.0409
10	16QAM	1	0	20.44	20.26	20.34	0.0489	0.0469	0.0478
10	16QAM	1	5	20.39	20.40	20.37	0.0483	0.0484	0.0481
10	16QAM	3	0	20.40	20.28	20.39	0.0484	0.0471	0.0483
10	16QAM	3	3	20.35	20.19	20.29	0.0479	0.0461	0.0472
10	16QAM	6	0	20.41	20.30	20.42	0.0485	0.0473	0.0486
Channel				23035	23095	23155	ERP(W)		
Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	20.17	20.30	20.33	0.0459	0.0473	0.0476
5	QPSK	1	5	20.08	20.13	20.18	0.0450	0.0455	0.0460
5	QPSK	3	0	20.13	20.23	20.32	0.0455	0.0466	0.0475
5	QPSK	3	3	20.22	20.17	20.18	0.0465	0.0459	0.0460
5	QPSK	6	0	19.51	19.59	19.67	0.0394	0.0402	0.0409
5	16QAM	1	0	20.36	20.25	20.32	0.0480	0.0468	0.0475
5	16QAM	1	5	20.39	20.41	20.26	0.0483	0.0485	0.0469
5	16QAM	3	0	20.38	20.33	20.41	0.0482	0.0476	0.0485
5	16QAM	3	3	20.24	20.24	20.32	0.0467	0.0467	0.0475
5	16QAM	6	0	19.75	19.71	19.81	0.0417	0.0413	0.0423
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	20.40	20.23	20.42	0.0484	0.0466	0.0486
3	QPSK	1	5	20.09	20.07	20.18	0.0451	0.0449	0.0460
3	QPSK	3	0	19.25	19.44	19.49	0.0372	0.0388	0.0393
3	QPSK	3	3	18.96	19.00	19.25	0.0348	0.0351	0.0372



3	QPSK	6	0	18.20	18.20	18.37	0.0292	0.0292	0.0303
3	16QAM	1	0	20.31	20.38	20.35	0.0474	0.0482	0.0479
3	16QAM	1	5	20.22	20.17	20.40	0.0465	0.0459	0.0484
3	16QAM	3	0	19.27	19.35	19.45	0.0373	0.0380	0.0389
3	16QAM	3	3	19.11	19.15	19.29	0.0360	0.0363	0.0375
3	16QAM	6	0	19.41	19.38	19.47	0.0385	0.0383	0.0391
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	20.26	20.29	20.43	0.0469	0.0472	0.0488
1.4	QPSK	1	5	20.28	20.23	20.26	0.0471	0.0466	0.0469
1.4	QPSK	3	0	19.26	19.30	19.38	0.0372	0.0376	0.0383
1.4	QPSK	3	3	19.10	19.13	19.19	0.0359	0.0361	0.0366
1.4	QPSK	6	0	18.21	18.23	18.40	0.0292	0.0294	0.0305
1.4	16QAM	1	0	20.33	20.30	20.37	0.0477	0.0473	0.0481
1.4	16QAM	1	5	20.29	20.28	20.42	0.0472	0.0471	0.0486
1.4	16QAM	3	0	19.36	19.31	19.55	0.0381	0.0377	0.0398
1.4	16QAM	3	3	19.21	19.23	19.39	0.0368	0.0370	0.0384
1.4	16QAM	6	0	19.27	19.30	19.51	0.0373	0.0376	0.0394

LTE Band 13:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23230					
Frequency (MHz)				782				M	
10	QPSK	1	0		20.19			0.0813	
10	QPSK	1	5		19.99			0.0776	
10	QPSK	3	0		20.08			0.0793	
10	QPSK	3	3		20.00			0.0778	
10	QPSK	6	0		19.48			0.0690	
10	16QAM	1	0		20.45			0.0863	
10	16QAM	1	5		20.43			0.0859	
10	16QAM	3	0		20.34			0.0841	
10	16QAM	3	3		20.23			0.0820	
10	16QAM	6	0		20.38			0.0849	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	20.24	20.19	20.18	0.0822	0.0813	0.0811
5	QPSK	1	5	20.02	20.03	19.96	0.0782	0.0783	0.0771
5	QPSK	3	0	20.11	20.16	20.13	0.0798	0.0807	0.0802
5	QPSK	3	3	20.06	20.04	20.04	0.0789	0.0785	0.0785
5	QPSK	6	0	19.49	19.51	19.51	0.0692	0.0695	0.0695
5	16QAM	1	0	20.48	20.39	20.44	0.0869	0.0851	0.0861
5	16QAM	1	5	20.51	20.26	20.33	0.0875	0.0826	0.0839
5	16QAM	3	0	20.41	20.16	20.20	0.0855	0.0807	0.0815
5	16QAM	3	3	20.36	20.15	20.08	0.0845	0.0805	0.0793
5	16QAM	6	0	19.66	19.57	19.60	0.0719	0.0705	0.0710



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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

LTE Band 2 / 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)
Lowest	3702	-56.05	-13	-43.05	-74.51	-62.81	5.82	12.58	H
	5553	-58.25	-13	-45.25	-80.53	-63.97	7.28	13.00	H
	7404	-54.90	-13	-41.90	-81.96	-58.06	8.32	11.48	H
	3702	-59.18	-13	-46.18	-77.54	-65.94	5.82	12.58	V
	5553	-58.26	-13	-45.26	-80.72	-63.98	7.28	13.00	V
	7404	-55.06	-13	-42.06	-82.14	-58.22	8.32	11.48	V
Middle	3742	-55.49	-13	-42.49	-74.07	-62.24	5.85	12.60	H
	5613	-52.27	-13	-39.27	-74.66	-58.07	7.30	13.10	H
	7484	-55.16	-13	-42.16	-82.09	-58.31	8.35	11.50	H
	3742	-60.39	-13	-47.39	-78.89	-67.14	5.85	12.60	V
	5613	-57.28	-13	-44.28	-79.86	-63.08	7.30	13.10	V
	7484	-55.15	-13	-42.15	-82.07	-58.30	8.35	11.50	V
Highest	3782	-55.44	-13	-42.44	-74.15	-62.18	5.88	12.62	H
	5673	-52.31	-13	-39.31	-75.62	-58.12	7.32	13.13	H
	7564	-55.45	-13	-42.45	-82.15	-58.61	8.38	11.54	H
	3782	-59.35	-13	-46.35	-78.03	-66.09	5.88	12.62	V
	5673	-55.05	-13	-42.05	-77.84	-60.86	7.32	13.13	V
	7564	-55.12	-13	-42.12	-81.79	-58.28	8.38	11.54	V

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



LTE Band 4 / 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)
Lowest	3422	-51.42	-13	-38.42	-67.91	-58.30	5.60	12.48	H
	5133	-60.80	-13	-47.80	-82.68	-66.48	7.10	12.78	H
	6844	-57.34	-13	-44.34	-82.55	-60.73	8.38	11.77	H
	3422	-52.56	-13	-39.56	-69.14	-59.44	5.60	12.48	V
	5133	-60.51	-13	-47.51	-82.61	-66.19	7.10	12.78	V
	6844	-57.04	-13	-44.04	-82.75	-60.43	8.38	11.77	V
Middle	3447	-51.29	-13	-38.29	-68.06	-58.14	5.65	12.50	H
	5170.5	-61.00	-13	-48.00	-82.83	-66.67	7.13	12.80	H
	6894	-57.04	-13	-44.04	-82.61	-60.44	8.40	11.80	H
	3447	-55.17	-13	-42.17	-71.98	-62.02	5.65	12.50	V
	5170.5	-60.68	-13	-47.68	-82.78	-66.35	7.13	12.80	V
	6894	-56.29	-13	-43.29	-82.34	-59.69	8.40	11.80	V
Highest	3472	-53.50	-13	-40.50	-70.40	-60.34	5.68	12.52	H
	5208	-61.25	-13	-48.25	-82.98	-66.92	7.15	12.82	H
	6944	-56.66	-13	-43.66	-82.58	-60.09	8.42	11.85	H
	3472	-55.44	-13	-42.44	-72.36	-62.28	5.68	12.52	V
	5208	-60.77	-13	-47.77	-82.75	-66.44	7.15	12.82	V
	6944	-56.29	-13	-43.29	-82.68	-59.72	8.42	11.85	V

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

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649.18	-54.60	-13	-41.60	-64.52	-57.83	3.98	9.36	H
	2473.77	-56.71	-13	-43.71	-71.18	-60.26	4.85	10.55	H
	3298.36	-61.79	-13	-48.79	-78.29	-66.72	5.50	12.58	H
	1649.18	-49.83	-13	-36.83	-59.49	-53.06	3.98	9.36	V
	2473.77	-55.80	-13	-42.80	-70.24	-59.35	4.85	10.55	V
	3298.36	-60.88	-13	-47.88	-77.19	-65.81	5.50	12.58	V
Middle	1664	-57.69	-13	-44.69	-67.63	-60.94	4.00	9.40	H
	2496	-57.04	-13	-44.04	-71.48	-60.61	4.88	10.60	H
	3328	-62.16	-13	-49.16	-78.32	-67.09	5.52	12.60	H
	1664	-52.24	-13	-39.24	-61.78	-55.49	4.00	9.40	V
	2496	-59.49	-13	-46.49	-73.89	-63.06	4.88	10.60	V
	3328	-62.62	-13	-49.62	-78.54	-67.55	5.52	12.60	V
Highest	1679.18	-57.86	-13	-44.86	-67.82	-61.03	4.10	9.42	H
	2518.77	-60.99	-13	-47.99	-75.40	-64.57	4.90	10.63	H
	3358.36	-62.48	-13	-49.48	-78.59	-67.40	5.55	12.62	H
	1679.18	-51.11	-13	-38.11	-60.52	-54.28	4.10	9.42	V
	2518.77	-60.89	-13	-47.89	-75.26	-64.47	4.90	10.63	V
	3358.36	-62.65	-13	-49.65	-78.62	-67.57	5.55	12.62	V

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



LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1399	-55.65	-13	-42.65	-66.24	-58.88	3.98	9.36	H
	2098.5	-56.21	-13	-43.21	-69.24	-59.76	4.85	10.55	H
	2798	-61.86	-13	-48.86	-77.84	-66.79	5.50	12.58	H
	1399	-57.84	-13	-44.84	-68.00	-61.07	3.98	9.36	V
	2098.5	-50.39	-13	-37.39	-63.37	-53.94	4.85	10.55	V
	2798	-61.79	-13	-48.79	-77.96	-66.72	5.50	12.58	V
Middle	1406	-57.79	-13	-44.79	-68.52	-61.04	4.00	9.40	H
	2109	-54.32	-13	-41.32	-67.36	-57.89	4.88	10.60	H
	2812	-61.89	-13	-48.89	-77.91	-66.82	5.52	12.60	H
	1406	-58.97	-13	-45.97	-69.26	-62.22	4.00	9.40	V
	2109	-47.89	-13	-34.89	-60.88	-51.46	4.88	10.60	V
	2812	-61.56	-13	-48.56	-77.77	-66.49	5.52	12.60	V
Highest	1413	-57.21	-13	-44.21	-67.96	-60.38	4.10	9.42	H
	2119.5	-54.30	-13	-41.30	-67.67	-57.88	4.90	10.63	H
	2826	-62.14	-13	-49.14	-78.17	-67.06	5.55	12.62	H
	1413	-59.59	-13	-46.59	-69.90	-62.76	4.10	9.42	V
	2119.5	-50.23	-13	-37.23	-63.56	-53.81	4.90	10.63	V
	2826	-61.75	-13	-48.75	-77.97	-66.67	5.55	12.62	V

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

LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1554.5	-48.92	-13	-35.92	-58.93	-52.15	3.98	9.36	H
	2331.75	-42.61	-13	-29.61	-57.41	-46.16	4.85	10.55	H
	3109	-61.20	-13	-48.20	-78.23	-66.13	5.50	12.58	H
	1554.5	-46.46	-13	-33.46	-56.55	-49.69	3.98	9.36	V
	2331.75	-50.21	-13	-37.21	-65.01	-53.76	4.85	10.55	V
	3109	-61.08	-13	-48.08	-78.17	-66.01	5.50	12.58	V
Middle	1559.5	-45.18	-42.15	-3.03	-55.20	-48.43	4.00	9.40	H
	2339.25	-41.74	-13	-28.74	-56.49	-45.31	4.88	10.60	H
	3119	-60.27	-13	-47.27	-77.40	-65.20	5.52	12.60	H
	1559.5	-42.46	-42.15	-0.31	-52.56	-45.71	4.00	9.40	V
	2339.25	-46.68	-13	-33.68	-61.43	-50.25	4.88	10.60	V
	3119	-60.94	-13	-47.94	-78.11	-65.87	5.52	12.60	V
Highest	1564.5	-45.33	-42.15	-3.18	-55.35	-48.50	4.10	9.42	H
	2346.75	-44.36	-13	-31.36	-59.13	-47.94	4.90	10.63	H
	3129	-61.27	-13	-48.27	-78.40	-66.19	5.55	12.62	H
	1564.5	-43.42	-42.15	-1.27	-53.52	-46.59	4.10	9.42	V
	2346.75	-48.50	-13	-35.50	-63.27	-52.08	4.90	10.63	V
	3129	-61.09	-13	-48.09	-78.26	-66.01	5.55	12.62	V

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



LTE Band 13 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (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	1559.5	-43.27	-42.15	-1.12	-53.29	-46.52	4.00	9.40	H
	2332.5	-41.89	-13	-28.89	-56.70	-45.46	4.88	10.60	H
	3110	-59.80	-13	-46.80	-76.83	-64.73	5.52	12.60	H
	1559.5	-43.10	-42.15	-0.95	-53.20	-46.35	4.00	9.40	V
	2332.5	-46.75	-13	-33.75	-61.56	-50.32	4.88	10.60	V
	3110	-60.75	-13	-47.75	-77.84	-65.68	5.52	12.60	V

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