



VARIANT FCC TEST REPORT (PART 27)

Applicant:	SIMCom Wireless Solutions Limited		
Address:	Building 3, No.289 Linhong Road Shanghai China 200335		
Manufacturer or Supplier:	SIMCom Wireless Solutions Limite	ed	
Address:	Building 3, No.289 Linhong Road	Shanghai China 200335	
Product:	SIM7672NA		
Brand Name:	SIMCom		
Model Name:	SIM7672NA		
FCC ID:	2AJYU-8XS0003		
Date of tests:	Aug. 22, 2023 ~ Nov. 01, 2023		
The tests have been carried out according to the requirements of the following standard:			
 □ FCC Part 27			
CONCLUSION: The submitted sample was found to COMPLY with the test requirement			
	Prepared by Chao Wu Engineer / Mobile Department Approved by Peibo Sun Manager / Mobile Department		
C	chao Wu Smpeibo		
	ate: Nov. 01, 2023 corporates by reference, the Conditions of Testing as posted at the	Date: Nov. 01, 2023 e date of issuance of this report at	

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23070009RF03	Original release	Sep. 11, 2023
W7L-P23070009-2RF03	Based on the original report product changing the model name and FCC ID, add LTE Band 14, remove LTE Band 7/25/26/38/41, The new sample verify LTE Band 13 RSE worse case of channel bandwidth 5MHz.	Nov. 01, 2023



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT		
§2.1046	Conducted Output Power	See note1		
§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 71)	See note1		
§27.50(h)(2)	Equivalent Isotropically Radiated Power	See note1		
§2.1055 §27.54	Frequency Stability	See note1		
§2.1049	Occupied Bandwidth	See note1		
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(m)(4)(6) §27.53(a)(4)	Conducted Band Edge Measurements (Band 12) (Band 13) (Band 71)	See note1		
\$2.1051 \$27.53(c)(2)(4) \$27.53(g) \$27.53(m)(4)(6)	Conducted Spurious Emissions (Band 12) (Band 13) (Band 71)	See note1		
\$2.1053 \$27.53(c)(2)(4) \$27.53(f) \$27.53(g) \$27.53(m)(4)(6)	Radiated Spurious Emissions See note1 (Band 12) (Band 13) (Band 71) Compliance			
NA	Peak to average ratio	See note1		



Note:

 $1. This \ report \ refers \ to \ the \ data \ of \ W7L-P23070009RF03 \ \ (FCC \ ID: 2AJYU-8XS0001, model: SIM7672G).$

2. List of the verified results (worse case) in the test item as follows

Test Item / Report No.	W7L-P23070009RF03	W7L-P23070009-2RF03
Radiated Emission Test (30MHz ~ 1GHz)	Margin: -26.96dB	Margin:47.15dB
Radiated Emission Test (Above 1GHz)	LTE Band 13 (channel bandwidth 5MHz) Margin:-4.41dB	LTE Band 13 (channel bandwidth 5MHz) PK+ Margin:19.24dB

1. All validation data are within increase of below to 3 dB, the result is better than original data.



*Test Lab Information Reference

Lab:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

Lab:

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Lab Address:

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Accredited Test Lab Cert 3939.01

The FCC Site Registration No. is 525120; The Designation No. is CN1171.



1.1 MEASREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

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



1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-E MC-01Cham ber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-E MC-02Cham ber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM -7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM -4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-0 0-1	SEP-03-20- 069	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-0 0-1	SEP-03-20- 069	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-0 0-1	SEP-03-20- 070	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-0 0-1	SEP-03-20- 070	Oct.27,23	Apr.26,24
Temperature Chamber	votsch	VT4002	5856607810 0050	May.31,22	May.30,24



NOTE:

- 1. The calibration interval of the above test instruments is 6 months or 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,22	Sep.02,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,23	Sep.01,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 22	Sep.03, 23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.03, 23	Sep.02, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,23	Feb. 13,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb.16,24
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 22, 23	May. 21,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,23	May. 05,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,23	May. 05,24
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,23	Feb. 13,24
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.10,23	May.09,24
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

- 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	SIM7672NA		
BRAND NAME*	SIMCom		
MODEL NAME*	SIM7672NA		
NOMINAL VOLTAGE*	EUT 3.8V		
MODULATION TECHNOLOGY*	LTE QPSK, 16QAM		
	LTE Band 12 Channel Bandwidth: 1.4MHz	699.7MHz ~ 715.3MHz	
	LTE Band 12 Channel Bandwidth: 3MHz	700.5MHz ~ 714.5MHz	
	LTE Band 12 Channel Bandwidth: 5MHz	701.5MHz ~ 713.5MHz	
	LTE Band 12 Channel Bandwidth: 10MHz	704MHz ~ 711MHz	
FREQUENCY RANGE	LTE Band 13 Channel Bandwidth: 5MHz	779.5MHz ~ 784.5MHz	
FREQUENCY RANGE	LTE Band 13 Channel Bandwidth: 10MHz	782MHz	
	LTE Band 71 Channel Bandwidth: 5MHz	665.5MHz ~ 695.5MHz	
	LTE Band 71 Channel Bandwidth: 10MHz	668MHz ~ 693MHz	
	LTE Band 71 Channel Bandwidth: 15MHz	670.5MHz ~ 690.5MHz	
	LTE Band 71 Channel Bandwidth: 20MHz	673MHz ~ 688MHz	
	LTE Band 12 Channel Bandwidth: 1.4MHz	162.55mW	
	LTE Band 12 Channel Bandwidth: 3MHz	162.18mW	
MAX. EIRP/ERP POWER	LTE Band 12 Channel Bandwidth: 5MHz	162.18mW	
	LTE Band 12 Channel Bandwidth: 10MHz	163.68mW	
	LTE Band 13 Channel Bandwidth: 5MHz	230.14mW	
	LTE Band 13 Channel Bandwidth: 10MHz	230.67mW	
	LTE Band 71 Channel Bandwidth: 5MHz	154.17mW	



VERITAS			
	LTE Band 71 Channel Bandwidth: 10MHz	155.24mW	
	LTE Band 71 Channel Bandwidth: 15MHz	154.17mW	
	LTE Band 71 Channel Bandwidth: 20MHz	156.31mW	
	LTE Band 12 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D 16QAM: 1M10W7D	
	LTE Band 12 Channel Bandwidth: 3MHz	QPSK: 2M71G7D 16QAM: 2M71W7D	
	LTE Band 12 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M51W7D	
	LTE Band 12 Channel Bandwidth: 10MHz	QPSK: 9M02G7D 16QAM: 4M87W7D	
EMISSION DESIGNATOR	LTE Band 13 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M50W7D	
	LTE Band 13 Channel Bandwidth: 10MHz	QPSK: 9M00G7D 16QAM: 4M87W7D	
	LTE Band 71 Channel Bandwidth: 5MHz	QPSK: 4M51G7D 16QAM: 4M50W7D	
	LTE Band 71 Channel Bandwidth: 10MHz	QPSK: 9M00G7D 16QAM: 4M86W7D	
	LTE Band 71 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 4M88W7D	
	CLTE Band 71 Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 4M90W7D	



ANTENNA TYPE*	Monopole Antenna with 0.22dBi gain for LTE12 Monopole Antenna with 2.23dBi gain for LTE13 Monopole Antenna with 0.22dBi gain for LTE71
HW VERSION*	V2.02
SW VERSION*	SIM7672M5A
I/O PORTS*	Refer to user's manual
CABLE SUPPLIED*	N/A
EXTREME TEMPERATURE*	-10-55 ℃
EXTREME VOLTAGE*	3.2V - 4.2V

NOTE:

- 1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

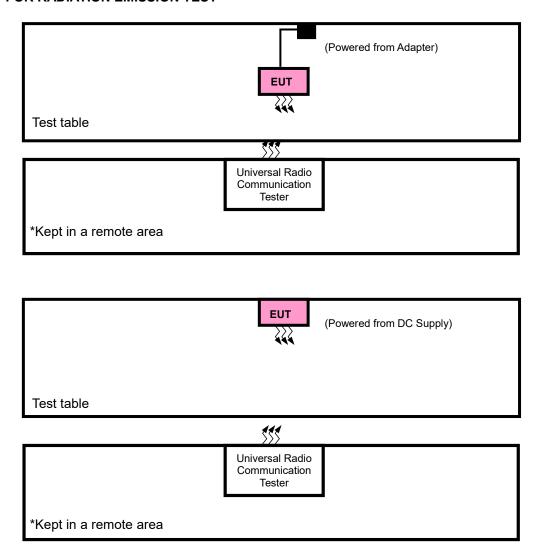
MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST





2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO	. PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	HYELEC	HY3010B	551016	N/A
2	Adapter	N/A	N/A	N/A	N/A

N	10.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
	1	DC Line: Unshielded, Detachable 1.0m
Γ	2	USB Line: Shielded, Detachable 1.0m;

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
Α	EUT + Adapter with LTE link
В	EUT + DC Supply with LTE link



LTE BAND 12 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
1	ERP	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
A	2.1.	23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
В	FREQUENCY STABILITY	23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	Full RB / 0 RB Offset
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	Full RB / 0 RB Offse
A	OCCUPIED	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	Full RB / 0 RB Offse
1 ^	BANDWIDTH	23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	Full RB / 0 RB Offse
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	Full RB / 0 RB Offse
Α	PEAK TO AVERAGE RATIO	23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offse
	BAND EDGE	23017 to 23173 23173	22017	1.4MHz	ODSK 16OAM	1 RB / 0 RB Offset
			23017	1.4WITZ	QPSK,16QAM	Full RB / 0 RB Offse
			23173	1.4MHz	QPSK,16QAM	1 RB / 5 RB Offset
				1.4101112	QF3N, TOQAW	Full RB / 0 RB Offse
		23025 to 23165 23035 to 23155	23025	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
				SIVII IZ	S. 5. 3. 10 S. 111	Full RB / 0 RB Offse
				3MHz	QPSK,16QAM	1 RB / 14 RB Offset
A						Full RB / 0 RB Offse
1 ^			23035	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
			20000	OWN 12	Q1 011,10Q/1111	Full RB / 0 RB Offse
			23155	5MHz	QPSK,16QAM	1 RB / 24 RB Offset
			20100	0111112	Q1 511,10 Q1 111	Full RB / 0 RB Offse
			23060	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23060 to 23130	2000	1011112	Qi Ori, rodo iivi	Full RB / 0 RB Offse
		20000 10 20 100	23130	10MHz	QPSK,16QAM	1 RB / 49 RB Offset
						Full RB / 0 RB Offse
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
 	CONDCUDETED	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
Α	EMISSION	23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23017 to 23173	23095	1.4MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED	23025 to 23165	23095	3MHz	QPSK	1 RB / 0 RB Offset
^	EMISSION	23035 to 23155	23095	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



LTE BAND 13 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE				
•	ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,16QAM	1 RB / 0 RB Offset				
Α	ERP	23230	23230	10MHz	QPSK,16QAM	1 RB / 0 RB Offset				
В	FREQUENCY STABILITY	23230	23230	10MHz	QPSK,16QAM	Full RB / 0 RB Offse				
	OCCUPIED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,16QAM	Full RB / 0 RB Offse				
Α	BANDWIDTH	23230	23230	10MHz	QPSK,16QAM	Full RB / 0 RB Offse				
Α	PEAK TO AVERAGE RATIO	23230	23230	10MHz	QPSK,16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offse				
	BAND EDGE		23205 5MHz	5MH-	QPSK.16QAM	1 RB / 0 RB Offset				
		23205 to 23255	20200	SIVIFIZ	QPSK, IOQAW	Full RB / 0 RB Offse				
		23203 to 23233	23255	5MHz	QPSK,16QAM	1 RB / 24 RB Offset				
Α					QPSK, IOQAW	Full RB / 0 RB Offse				
				23230 23230						1 RB / 0 RB Offset
					10MHz	QPSK,16QAM	1 RB / 49 RB Offset			
						Full RB / 0 RB Offse				
	CONDCUDETED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,16QAM	1 RB / 0 RB Offset				
Α	EMISSION	23230	23230	10MHz	QPSK,16QAM	1 RB / 0 RB Offset				
	RADIATED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB / 0 RB Offset				
A	EMISSION	23230	23230	10MHz	QPSK	1 RB / 0 RB Offset				

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



LTE BAND 71

A PENATTO PANTO	LIE BAND /1									
A ERP 133172 to 133422 13172; 133297 133422 10MHz QPSK,16QAM 1 RB / 0 RB Offset 1 RB / 0		TEST ITEM		TESTED CHANNEL		MODULATION	MODE			
A			133147 to 133447		5MHz	QPSK,16QAM	1 RB / 0 RB Offset			
133197 to 133397 133327 130Hz QPSK,16QAM 1 RB / 0 RB Offset			133172 to 133422	133172, 133297 133422	10MHz	QPSK,16QAM	1 RB / 0 RB Offset			
B FREQUENCY 133222 to 133372 133222, 20MHz QPSK,16QAM Full RB / 0 RB Offset Full RB / 0	A	ERP	133197 to 133397		15MHz	QPSK,16QAM	1 RB / 0 RB Offset			
A PEAK TO RATE DESCRIPTION AND PROMISE PURI RB / 0 RB Offset Pull			133222 to 133372		20MHz	QPSK,16QAM	1 RB / 0 RB Offset			
A PEAR TO AVERAGE RATIO A PEAK TO AVERAGE RATIO BANDEDGE BANDEDGE A RATIO A RADIATE D 133422 A RADIATE D 133427 A RADIATE D 133427 A RADIATE D EMISSION BANDEDGE A RATIO 133147 to 133447 133147 to 133447 133147 to 133447 A RADIATE D EMISSION 133147 to 133447 A RADIATE D EMISSION 133147 to 133447 A RADIATE D EMISSION 133147 to 133422 133172, 133297 133172, 133297 133172, 133297 133172, 133297 133172, 133297 133172, 133397 133172, 133172 1331	В		133222 to 133372	·	20MHz	QPSK,16QAM	Full RB / 0 RB Offse			
A OCCUPIED BANDWIDTH 133197 to 133397 133197, 133297, 15MHz OPSK,16QAM Full RB / 0 RB Offset 133222 to 133372 133222, 133322, 20MHz OPSK,16QAM Full RB / 0 RB Offset Full RB / 0 RB			133147 to 133447	, , , , , , , , , , , , , , , , , , ,	5MHz	QPSK,16QAM	Full RB / 0 RB Offse			
BANDWIDTH 133197 to 133397 133197, 133297, 15MHz QPSK,16QAM Full RB / 0 RB Offset		OCCUPIED	133172 to 133422	133172, 133297 133422	10MHz	QPSK,16QAM	Full RB / 0 RB Offse			
A PEAK TO AVERAGE RATIO BAND EDGE BAND EDGE A PEAK TO AVERAGE RATIO BAND EDGE BAND ED	A		133197 to 133397		15MHz	QPSK,16QAM	Full RB / 0 RB Offse			
A AVERAGE RATIO AVERAGE RATIOR OF AS Offset AVERAGE RATIOR AVERAGE AV			133222 to 133372		20MHz	QPSK,16QAM	Full RB / 0 RB Offse			
A BAND EDGE 133147 to 133447 133147 5MHz QPSK,16QAM Full RB / 0 RB Offset Full RB / 0	А	AVERAGE	133222 to 133372		20MHz	QPSK,16QAM				
A BAND EDGE BAND EDGES EDGE BAND EDGES ED				133147	5MHz	QPSK,16QAM				
A BAND EDGE BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND BAND			133147 to 133447							
A BAND EDGE 133172 to 133422 10MHz QPSK,16QAM 1 RB / 0 RB Offset Full RB / 0 RB Offset Table RB / 0				133447	5MHz	QPSK,16QAM				
A BAND EDGE 133172 to 133422 10MHz QPSK,16QAM Full RB / 0 RB Offset Full RB / 0 RB Off			133172 to 133422	133172						
A BAND EDGE 133172 to 133422 10MHz QPSK,16QAM 1 RB / 9 RB Offset Full RB / 0 RB Offset Fu					10MHz	QPSK,16QAM				
A BAND EDGE BAND EDGE 133422 10MHz QPSK,16QAM Full RB / 0 RB Offset 133197 to 133397 15MHz QPSK,16QAM 1 RB / 0 RB Offset Full RB / 0 RB Offset										
A PADIATED A PARIS LISCU A RADIATED B M 133197 to 133397 133197 to 133422 133172 to 133422 133172 to 133422 133172 to 133422 133172 to 133427 133297 133297 133297 133297 133297 133497 13441 13441 1444 1445 1445 1445 1447 1448					10MHz	QPSK,16QAM				
A CONDCUDETED EMISSION 133197 133197 15MHz QPSK,16QAM 1RB / 0 RB Offset 133197 133197 15MHz QPSK,16QAM 1RB / 0 RB Offset 133197 to 133397 133197 to 133397 133197 to 133397 133197 to 133397 133197 to 133447 133297 to 133312 133197 to 133447 133297 to 133397 133197 to 133447 133297 to 133397 133197 to 133447 133297 to 133397 133197 to 133197 to 133397 133197 to 133397 133197 to 133197 to 133197 to 133397 1350192 to 133197 to 133197 to 133397 1350192 to 135197	Α	BAND EDGE								
A PADIATED EMISSION A RADIATED EMISSION A RADI				133197	15MHz	QPSK,16QAM				
A RADIATED EMISSION 133172 133197 133297 133197 15MHz QPSK,16QAM 1 RB / 0 RB Offset 133197 to 133397 133197, to 133397 133197, to 133397 133197, to 133397 133197 to 133397 133197 to 133397 133197 to 133397 133197, to 133417 to 133447 133297, to 133417 to 133447 133297, to 133417 to 133			133197 to 133397	3197 to 133397						
133222 to 133372 20MHz QPSK,16QAM 1 RB / 0 RB Offset				133397	15MHz	QPSK,16QAM				
A PADIATED EMISSION 133172 133222 133372 20MHz QPSK,16QAM Full RB / 0 RB Offset 133172 to 133427 133172, 133297 to 133397 133172 to 133427 133172 to 133427 133172, 133297 to 133397 133172 to 133447 133297 to 133372 133172 to 133447 133297 to 133372 133172 to 13347 133297 to 133397										
A PADIATED EMISSION 133172 133172 to 133397 133197 to 133397 133172 to 133422 133172, 133297 133422 10MHz QPSK,16QAM 1 RB / 0 RB Offset 133172 to 133427 133297, 133297 1347 QPSK,16QAM 1 RB / 0 RB Offset 133197 to 133397 133197, 133297, 133297, 133297, 133397 15MHz QPSK,16QAM 1 RB / 0 RB Offset 133222 to 133372 133222, 133322, 133322, 133322, 133322, 133322, 133322, 133322, 133322 QPSK,16QAM 1 RB / 0 RB Offset 133147 to 133447 133297 5MHz QPSK 1 RB / 0 RB Offset 133172 to 133422 133172, 133297 133422 10MHz QPSK 1 RB / 0 RB Offset 133172 to 133422 133172, 133297 133422 10MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 1RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 1RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 1RB / 0 RB Offset 1RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 1RB / 0 RB Offset 1R				133222	20MHz	QPSK,16QAM				
A PADIATED EMISSION 133197 to 133397 133197 to 133422 133172, 133297 133422 10MHz QPSK,16QAM 1 RB / 0 RB Offset 133172 to 133492 133197, 133297, 15MHz QPSK,16QAM 1 RB / 0 RB Offset 133222 to 133372 133222, 133322, 133322, 133372 20MHz QPSK,16QAM 1 RB / 0 RB Offset 133147 to 133447 133297 5MHz QPSK 1 RB / 0 RB Offset 133172 to 133422 133172, 133297 133422 10MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset			133222 to 133372							
A PADIATED EMISSION 133147 to 133447 133147, 133297, 133422 133172 to 133422 133172, 133297 133422 10MHz QPSK,16QAM 1 RB / 0 RB Offset 133197 to 133397 133197, 133297, 15MHz QPSK,16QAM 1 RB / 0 RB Offset 133222 to 133372 133222, 133322, 133322 133372 20MHz QPSK,16QAM 1 RB / 0 RB Offset 133147 to 133447 133297 5MHz QPSK,16QAM 1 RB / 0 RB Offset 133147 to 133447 133297 5MHz QPSK 1 RB / 0 RB Offset 133172 to 133422 133172, 133297 15MHz QPSK 1 RB / 0 RB Offset 133172 to 133422 133172, 133297 15MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset				133372	20MHz	QPSK,16QAM				
A CONDCUDETED EMISSION 133172 to 133422 133172, 133297 133422 10MHz QPSK,16QAM 1 RB / 0 RB Offset 133197 to 133397 133197, 133297, 15MHz QPSK,16QAM 1 RB / 0 RB Offset 133222 to 133372 133222, 133322, 133372 20MHz QPSK,16QAM 1 RB / 0 RB Offset 133147 to 133447 133297 5MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133172, 133297 133422 10MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset			133147 to 133447		5MHz	QPSK,16QAM				
A EMISSION 133197 to 133397 133197, 133297, 15MHz QPSK,16QAM 1 RB / 0 RB Offset 133222 to 133372 133222, 133322, 20MHz QPSK,16QAM 1 RB / 0 RB Offset 133147 to 133447 133297 5MHz QPSK 1 RB / 0 RB Offset 133172 to 133422 133172, 133297 133422 10MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset		CONDOUNTED	133172 to 133422		10MHz	QPSK,16QAM	1 RB / 0 RB Offset			
133222 to 133372	А		133197 to 133397		15MHz	QPSK,16QAM	1 RB / 0 RB Offset			
A RADIATED EMISSION 133172 to 133422 133172, 133297 133422 10MHz QPSK 1 RB / 0 RB Offset 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset			133222 to 133372	133222, 133322,	20MHz	QPSK,16QAM	1 RB / 0 RB Offset			
A EMISSION 133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset			133147 to 133447	133297	5MHz	QPSK	1 RB / 0 RB Offset			
133197 to 133397 133297 15MHz QPSK 1 RB / 0 RB Offset		RADIATED	133172 to 133422	133172, 133297 133422	10MHz	QPSK	1 RB / 0 RB Offset			
133222 to 133372 133322 20MHz QPSK 1 RB / 0 RB Offset	A		133197 to 133397	133297	15MHz	QPSK	1 RB / 0 RB Offset			
			133222 to 133372	133322	20MHz	QPSK	1 RB / 0 RB Offset			

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



TEST CONDITION:

	=		
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	EUT 3.8V	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.2V/3.8V/4.2V By DC Supply	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	EUT 3.8V	James Fu
BAND EDGE	23deg. C, 70%RH	EUT 3.8V	James Fu
CONDCUDETED EMISSION	23deg. C, 70%RH	EUT 3.8V	James Fu
RADIATED EMISSION	23deg. C, 70%RH	EUT 3.8V	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	EUT 3.8V	James Fu



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that "User stations are limited to 2 watts" and 27.50(i) specific that "Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage."

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP

According to the specific rule Part 27.50(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = PMeas + GT - LC

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

 $G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);$



Lc = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

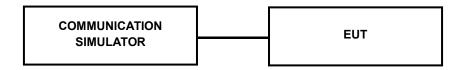
CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band 12

Band/BW	Modulation	RB Siz e	RB Offset	Low CH 23017 Frequency 699.7 MHz	Mid CH 23095 Frequency 707.5 MHz	High CH 23173 Frequency 715.3 MHz
		1	0	23.69	22.94	22.77
		1	2	23.31	23.72	22.77
		1	5	24.04	23.55	22.67
	QPSK	3	0	23.31	23.49	23.10
		3	1	23.41	23.85	22.96
		3	3	23.83	23.84	22.61
12/ 1.4		6	0	22.58	22.62	21.85
12/ 1.4		1	0	22.94	22.12	22.12
		1	2	22.44	22.70	22.46
		1	5	22.68	22.99	22.20
	16QAM	3	0	23.49	23.11	23.16
		3	1	23.22	23.54	23.22
		3	3	23.18	23.73	23.22
		6	0	21.22	21.55	21.20

Band/BW	Modulation	RB Siz e	RB Offset	Low CH 23025 Frequency	Mid CH 23095 Frequency	High CH 23165 Frequency
				700.5 MHz	707.5 MHz	714.5 MHz
		1	0	23.72	22.88	22.74
		1	7	23.24	23.70	22.85
		1	14	24.03	23.59	22.70
	QPSK	8	0	22.25	22.52	22.12
		8	3	22.33	22.83	21.91
		8	7	22.73	22.95	21.64
12/ 3		15	0	22.51	22.62	21.84
12/3		1	0	22.93	22.18	22.10
		1	7	22.38	22.66	22.52
		1	14	22.58	23.02	22.28
	16QAM	8	0	22.38	22.18	22.16
		8	3	22.28	22.44	22.29
		8	7	22.15	22.73	22.21
		15	0	21.24	21.56	21.11



Band/BW	Modulation	RB Siz e	RB Offset	Low CH 23035 Frequency 701.5 MHz	Mid CH 23095 Frequency 707.5 MHz	High CH 23155 Frequency 713.5 MHz
		1	0	23.72	22.94	22.78
		1	12	23.26	23.72	22.81
		1	24	24.03	23.58	22.63
	QPSK	12	0	22.28	22.52	22.11
		12	6	22.41	22.85	21.96
		12	13	22.78	22.94	21.65
12/ 5		25	0	22.59	22.62	21.94
12/3		1	0	22.99	22.11	22.16
		1	12	22.43	22.73	22.48
		1	24	22.69	23.02	22.23
	16QAM	12	0	22.41	22.14	22.19
		12	6	22.18	22.49	22.24
		12	13	22.22	22.76	22.15
		25	0	21.22	21.54	21.17

Band/BW	Modulation	RB Siz e	RB Offset	Low CH 23060 Frequency 704 MHz	Mid CH 23095 Frequency 707.5 MHz	High CH 23130 Frequency 711 MHz
		1	0	23.74	22.99	22.79
		1	24	23.34	23.76	22.87
		1	49	24.07	23.63	22.73
	QPSK	25	0	22.36	22.55	22.15
		25	12	22.44	22.89	22.03
		25	25	22.85	22.95	21.69
10/10		50	0	22.60	22.74	21.94
12/ 10		1	0	23.04	22.22	22.21
		1	24	22.47	22.78	22.55
		1	49	22.69	23.08	22.29
	16QAM	12	0	22.50	22.22	22.20
		12	17	22.29	22.56	22.30
		12	36	22.26	22.77	22.26
		27	0	21.34	21.64	21.21



LTE Band 13

LIE Danu	13					
Band/BW	Modulation	RB Siz	RB	Low CH 23205	Mid CH 23230	High CH 23255
Barra, Brr	Modelicii	е	Offset	Frequency 779.5 MHz	Frequency 782.0 MHz	Frequency 784.5 MHz
		1	0	23.45	23.51	23.54
		1	12	22.83	22.87	22.86
		1	24	23.16	23.16	23.19
	QPSK	12	0	22.35	22.27	22.37
		12	6	22.17	22.14	22.17
		12	13	22.13	22.13	22.18
13/ 5		25	0	22.27	22.28	22.25
13/ 5		1	0	22.73	22.76	22.84
		1	12	22.56	22.53	22.55
		1	24	22.24	22.29	22.23
	16QAM	12	0	22.51	22.46	22.49
		12	6	22.32	22.41	22.31
		12	13	22.27	22.22	22.24
		25	0	21.34	21.33	21.31

Band/BW	Modulation	RB Siz e	RB Offset	1	Mid CH 23230 Frequency 782.0 MHz	1
		1	0	/	23.55	/
		1	24	/	22.90	/
		1	49	/	23.20	1
	QPSK	25	0	/	22.39	1
		25	12	/	22.22	1
		25	25	/	22.23	/
13/ 10		50	0	/	22.30	1
13/10		1	0	1	22.85	1
		1	24	1	22.57	1
		1	49	/	22.33	1
	16QAM	12	0	/	22.52	1
		12	17	/	22.43	/
		12	36	/	22.31	1
		27	0	/	21.38	1



LTE Band 71

LTE Bana 7	1				1	
Band/BW	Modulation	RB Siz	RB	Low CH 133147	Mid CH 133247	High CH 133447
Barra, BTT	Modellation	e	Offset	Frequency 665.5MHz	Frequency 675.5MHz	Frequency 695.5MHz
		1	0	23.73	23.81	23.35
		1	12	23.81	23.58	23.79
		1	24	23.37	23.44	23.73
	QPSK	12	0	22.55	22.69	22.68
		12	6	22.71	22.78	22.98
		12	13	22.81	22.91	23.03
71/ 5		25	0	22.72	22.79	22.79
/ 1/ 5		1	0	23.00	23.10	22.87
		1	12	23.16	23.02	23.20
		1	24	22.61	22.94	23.05
	16QAM	12	0	22.75	22.88	22.50
		12	6	22.59	22.95	22.65
		12	13	22.52	23.01	22.82
		25	0	21.68	21.65	21.62

Band/BW	Modulation	RB Siz e	RB Offset	Low CH 133172 Frequency 668MHz	Mid CH 133272 Frequency 678MHz	High CH 133172 Frequency 693MHz
		1	0	23.65	23.80	23.35
		1	24	23.84	23.54	23.78
		1	49	23.29	23.49	23.70
	QPSK	25	0	22.50	22.66	22.63
		25	12	22.64	22.76	22.93
		25	25	22.71	22.87	23.01
74/40		50	0	22.73	22.79	22.80
71/ 10		1	0	22.96	23.12	22.93
		1	24	23.23	22.98	23.18
		1	49	22.62	23.04	23.13
	16QAM	12	0	22.67	22.91	22.48
		12	17	22.63	23.01	22.58
		12	36	22.60	23.06	22.89
		27	0	21.58	21.67	21.62



Band/BW	Modulation	RB Siz e	RB Offset	Low CH 133197 Frequency 670.5MHz	Mid CH 133297 Frequency 680.5MHz	High CH 133397 Frequency 690.5MHz
		1	0	23.75	23.72	23.34
		1	37	23.81	23.57	23.77
		1	74	23.38	23.45	23.75
	QPSK	36	0	22.60	22.72	22.69
		36	19	22.68	22.73	22.92
		36	39	22.72	22.93	23.05
71/ 15		75	0	22.68	22.74	22.86
/ 1/ 15		1	0	22.95	23.05	22.90
		1	37	23.17	23.07	23.12
		1	74	22.63	22.96	23.13
	16QAM	12	0	22.77	22.87	22.48
		12	30	22.68	22.98	22.60
		12	61	22.51	23.07	22.83
		27	0	21.60	21.70	21.58

Band/BW	Modulation	RB Siz e	RB Offset	Low CH 133222 Frequency 673MHz	Mid CH 133322 Frequency 683MHz	High CH 133372 Frequency 688MHz
		1	0	23.77	23.81	23.39
		1	50	23.87	23.61	23.85
		1	99	23.41	23.54	23.75
	QPSK	50	0	22.61	22.73	22.71
		50	25	22.73	22.80	23.00
		50	50	22.82	22.96	23.08
71/ 20		100	0	22.76	22.83	22.89
/ 1/ 20		1	0	23.06	23.15	22.96
		1	50	23.23	23.10	23.22
		1	99	22.70	23.05	23.13
	16QAM	12	0	22.78	22.99	22.52
		12	42	22.70	23.05	22.68
		12	86	22.62	23.10	22.93
		27	0	21.70	21.77	21.66



EIRP

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	24.04	0.22	22.11	162.55	3
23095	707.5	23.85	0.22	21.92	155.6	3
23173	715.3	23.1	0.22	21.17	130.92	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	23.49	0.22	21.56	143.22	3
23095	707.5	23.73	0.22	21.8	151.36	3
23173	715.3	23.22	0.22	21.29	134.59	3

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	24.03	0.22	22.1	162.18	3
23095	707.5	23.7	0.22	21.77	150.31	3
23165	714.5	22.85	0.22	20.92	123.59	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency	Conducted Power	G _T -L _C	ERP	ERP	Limit
Cilailiei	(MHz)	(dBm)	(dB)	(dBm)	(mW)	(W)
23025	700.5	22.93	0.22	21	125.89	3
23095	707.5	23.02	0.22	21.09	128.53	3
23165	714.5	22.52	0.22	20.59	114.55	3



CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	24.03	0.22	22.1	162.18	3
23095	707.5	23.72	0.22	21.79	151.01	3
23155	713.5	22.81	0.22	20.88	122.46	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	22.99	0.22	21.06	127.64	3
23095	707.5	23.02	0.22	21.09	128.53	3
23155	713.5	22.48	0.22	20.55	113.5	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	24.07	0.22	22.14	163.68	3
23095	707.5	23.76	0.22	21.83	152.41	3
23130	711	22.87	0.22	20.94	124.17	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	23.04	0.22	21.11	129.12	3
23095	707.5	23.08	0.22	21.15	130.32	3
23130	711	22.55	0.22	20.62	115.35	3

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



LTE BAND 13

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	23.45	2.23	23.53	225.42	3
23230	782	23.51	2.23	23.59	228.56	3
23255	784.5	23.54	2.23	23.62	230.14	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	22.73	2.23	22.81	190.99	3
23230	782	22.76	2.23	22.84	192.31	3
23255	784.5	22.84	2.23	22.92	195.88	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	23.55	2.23	23.63	230.67	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	22.85	2.23	22.93	196.34	3
-	-	-	-	-	-	-

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



LTE BAND 71

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133147	665.5	23.81	0.22	21.88	154.17	3
133297	680.5	23.81	0.22	21.88	154.17	3
133447	695.5	23.79	0.22	21.86	153.46	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133147	665.5	23.16	0.22	21.23	132.74	3
133297	680.5	23.1	0.22	21.17	130.92	3
133447	695.5	23.2	0.22	21.27	133.97	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133172	668	23.84	0.22	21.91	155.24	3
133297	680.5	23.8	0.22	21.87	153.82	3
133422	693	23.78	0.22	21.85	153.11	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133172	668	23.23	0.22	21.3	134.9	3
133297	680.5	23.12	0.22	21.19	131.52	3
133422	693	23.18	0.22	21.25	133.35	3



CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133197	670.5	23.81	0.22	21.88	154.17	3
133297	680.5	23.72	0.22	21.79	151.01	3
133397	690.5	23.77	0.22	21.84	152.76	3

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133197	670.5	23.17	0.22	21.24	133.05	3
133297	680.5	23.07	0.22	21.14	130.02	3
133397	690.5	23.13	0.22	21.2	131.83	3

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133222	673	23.87	0.22	21.94	156.31	3
133322	683	23.81	0.22	21.88	154.17	3
133372	688	23.85	0.22	21.92	155.6	3

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133222	673	23.23	0.22	21.3	134.9	3
133322	683	23.15	0.22	21.22	132.43	3
133372	688	23.22	0.22	21.29	134.59	3

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

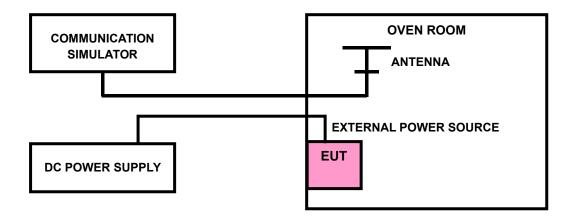
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5\,^{\circ}$ C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





3.2.4 TEST RESULTS

Refers to the data of W7L-P23070009RF03 $\,$ (FCC ID: 2AJYU-8XS0001, model: SIM7672G) $\,$.

Note: VL = Low voltage(3.2V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.2V); NT = Normal temperature (25° C)

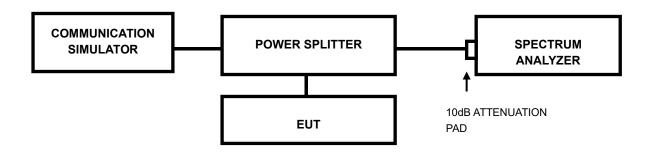


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



3.3.4 TEST RESULTS

Refers to the data of W7L-P23070009RF03 $\,$ (FCC ID: 2AJYU-8XS0001, model: SIM7672G) $\,$.



3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emission in an 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P(dBW), by at least 65 +10log10p(P), dB, for mobile and portable equipment.

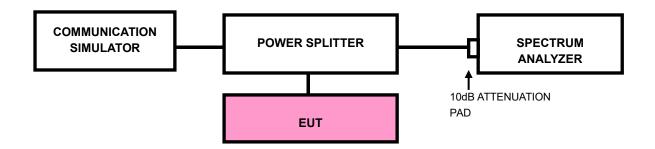
According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.



3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to ≥ 3 x RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to \ge 1001.
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- I) Record the max trace plot into the test report.



3.4.4 TEST RESULTS

Refers to the data of W7L-P23070009RF03 $\,$ (FCC ID: 2AJYU-8XS0001, model: SIM7672G) $\,$.



3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

For: LTE Band7

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 55 +10 log10(P) dB. The limit of emission is equal to -25dBm.

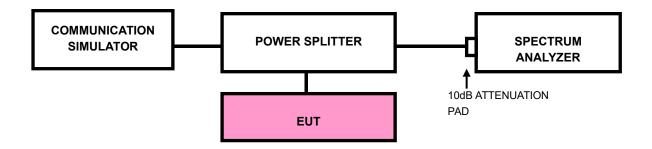
For: LTE Band30

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 70 +10 log10(P) dB. The limit of emission is equal to -40dBm.

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





3.5.4 TEST RESULTS

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Refers to the data of W7L-P23070009RF03 $\,$ (FCC ID: 2AJYU-8XS0001, model: SIM7672G) $\,$.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

For: LTE Band7/ Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 55 +10 log10(P) dB. The limit of emission is equal to -25dBm.

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3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15dBi.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

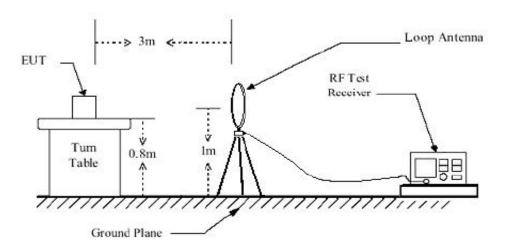
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

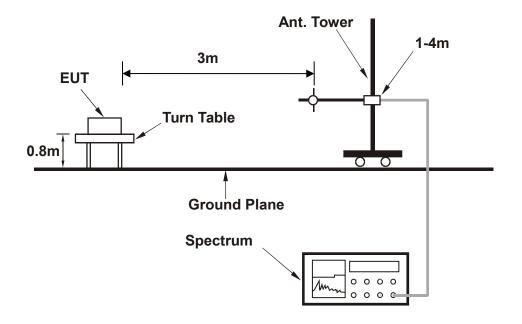


3.6.4 TEST SETUP

< Frequency Range below 30MHz >

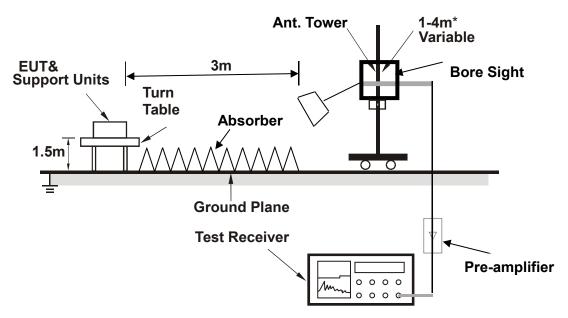


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

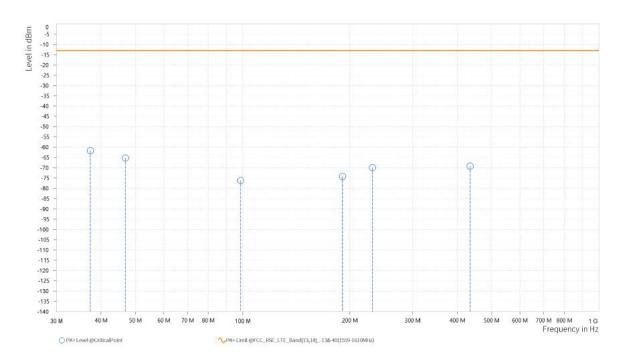
30 MHz - 1GHz data:

LTE Band 13

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

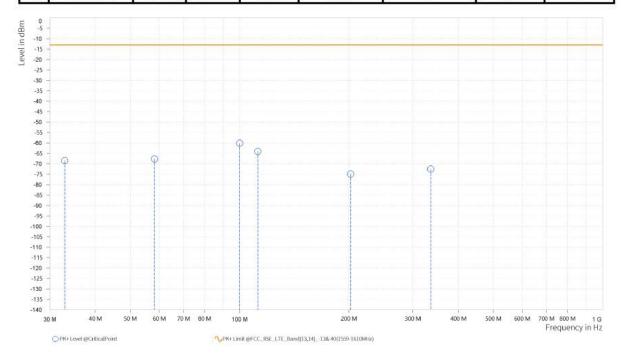
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	37.350	-61.61	-13.00	48.61	6.73	I	4.9	1
1	46.850	-65.25	-13.00	52.25	3.07	Н	359.1	1
1	98.750	-76.15	-13.00	63.15	-4.49	Н	167	2
1	190.600	-74.21	-13.00	61.21	1.46	Н	0.9	2
1	231.450	-69.90	-13.00	56.90	7.89	Н	345.2	1
1	435.250	-69.20	-13.00	56.20	7.24	Н	134.8	2





MODE	TX channel 23230	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	32.950	-68.47	-13.00	55.47	0.10	٧	304.1	1
1	58.250	-67.68	-13.00	54.68	3.14	V	135.9	2
1	99.950	-60.15	-13.00	47.15	11.18	V	69.8	1
1	112.150	-64.04	-13.00	51.04	7.78	V	261	1
1	202.000	-74.84	-13.00	61.84	0.16	V	356.5	1
1	335.950	-72.53	-13.00	59.53	5.83	V	10.1	2





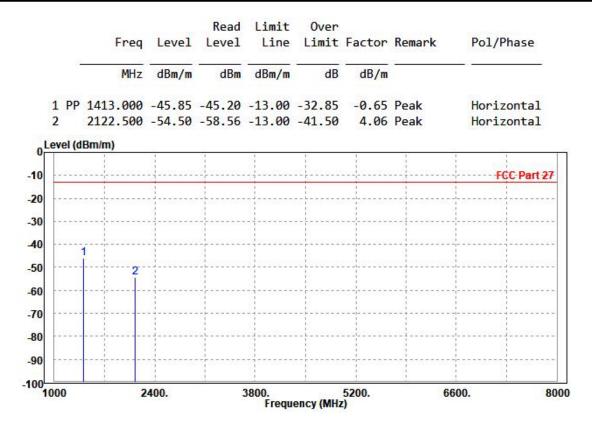
ABOVE 1GHz

Note: For higher frequency, the emission is too low to be detected.

LTE BAND 12

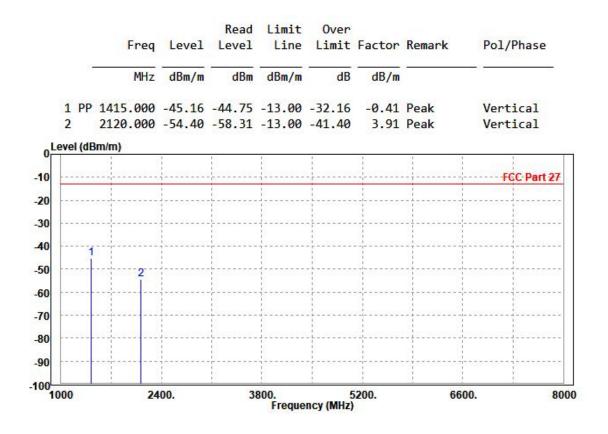
CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			





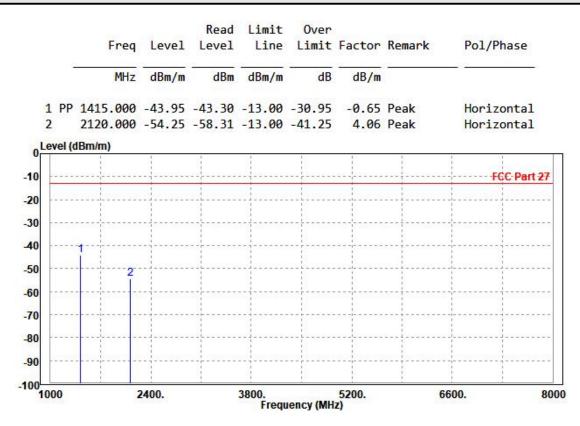
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			





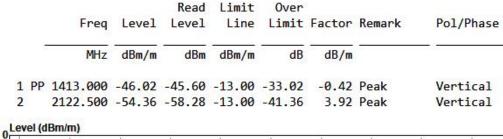
CHANNEL BANDWIDTH: 3MHz / QPSK

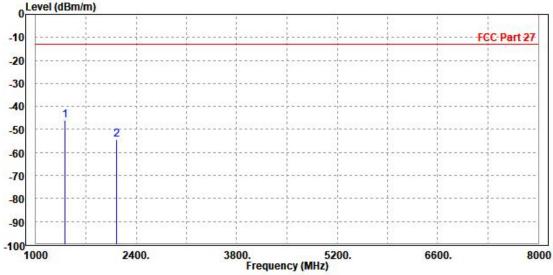
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY Jace Hu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			





MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

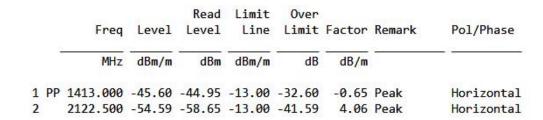


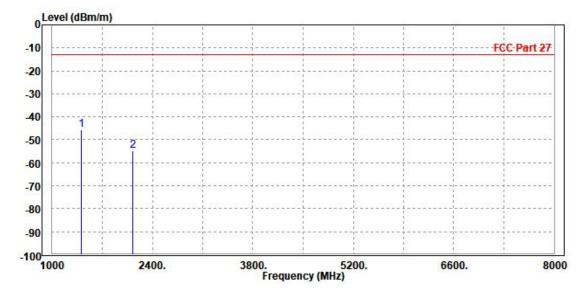




CHANNEL BANDWIDTH: 5MHz / QPSK

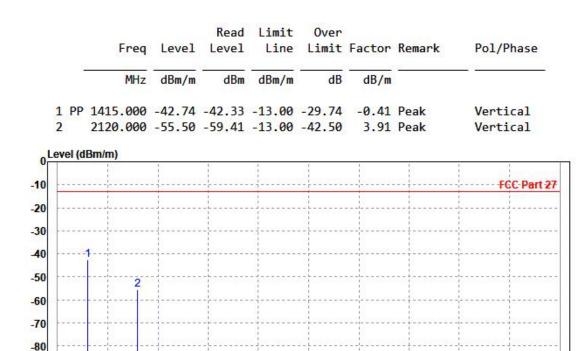
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			







MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



3800. 5200. Frequency (MHz)

-90

-100 1000

2400.

6600.

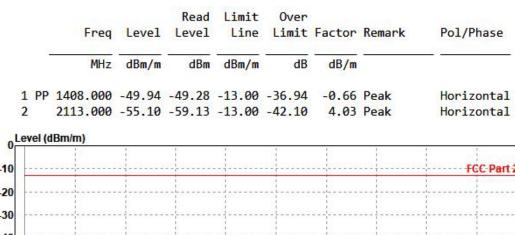
8000

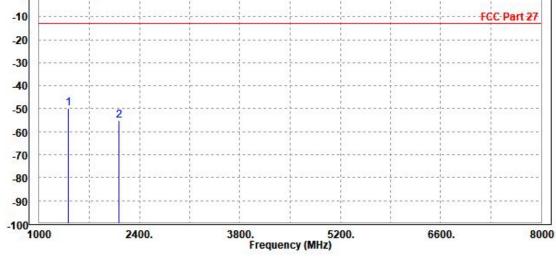


CHANNEL BANDWIDTH: 10MHz / QPSK

CH23060

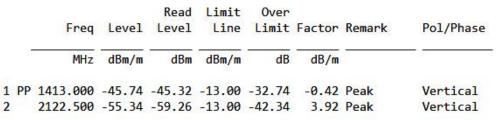
MODE	TX channel 23060	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

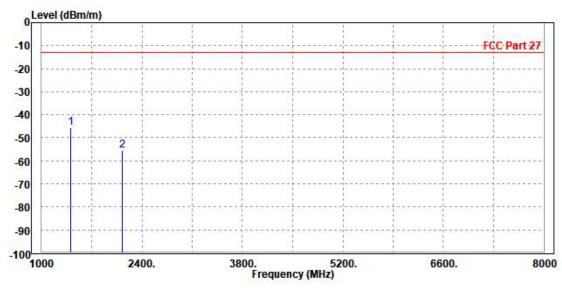






MODE	TX channel 23060	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			







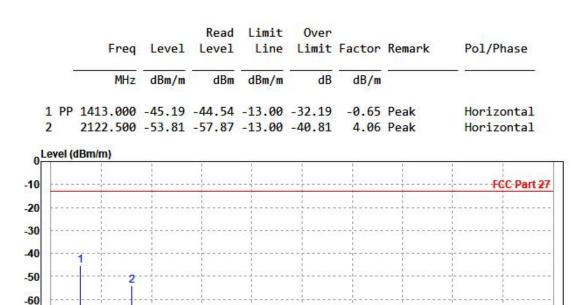
CH23095

-70 -80 -90

-100 1000

2400.

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					



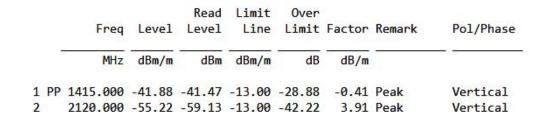
3800. 5200. Frequency (MHz)

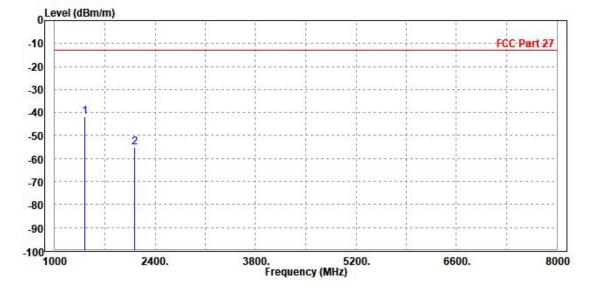
6600.

8000



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

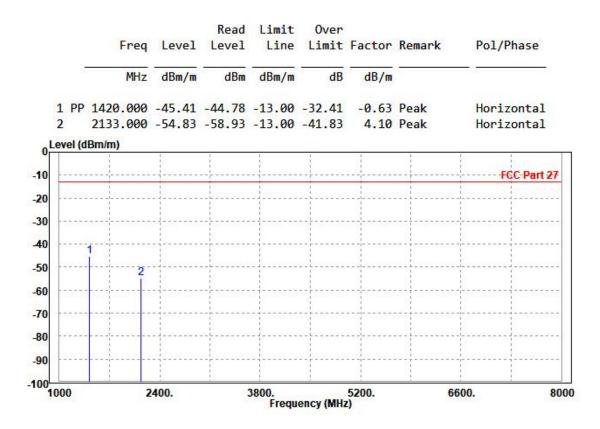






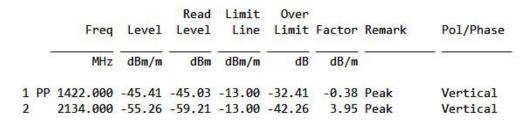
CH23130

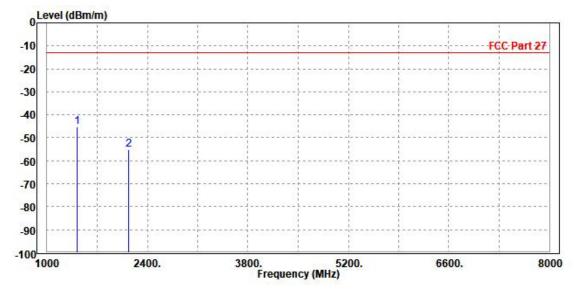
MODE	TX channel 23130	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						





MODE	TX channel 23130	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						







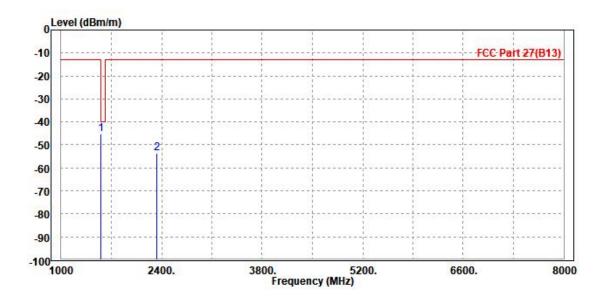
LTE B13

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 23205

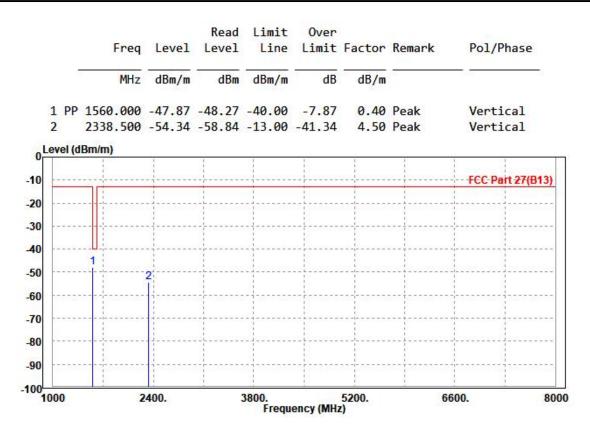
MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

		Freq	Level			Over Limit		Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m	-	
1	PP	1559.000	-45.15	-45.20	-40.00	-5.15	0.05	Peak	Horizontal
2		2337.000	-53.43	-58.28	-13.00	-40.43	4.85	Peak	Horizontal





MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

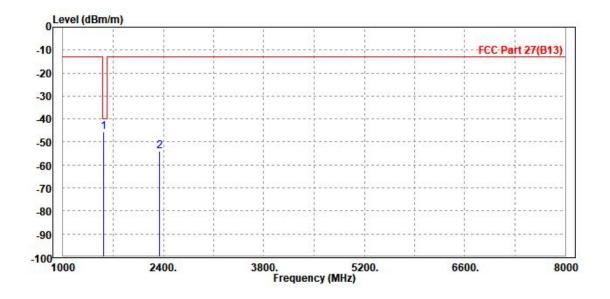




CH 23230

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Chao Wu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

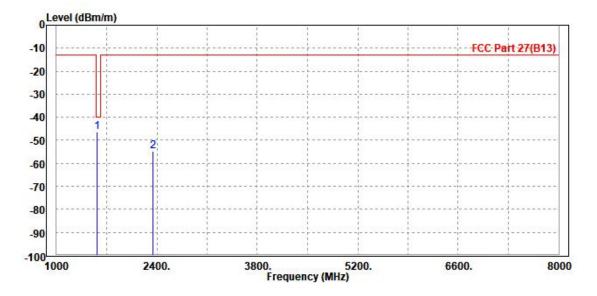
		Freq	Level	10000000	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m	<u> </u>	<u> </u>
1	PP	1567.000	-45.69	-45.81	-40.00	-5.69	0.12	Peak	Horizontal
2		2346.000	-53.99	-58.87	-13.00	-40.99	4.88	Peak	Horizontal





MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Chao Wu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

		Freq	Level	3000000	Limit Line		Factor	Remark	Pol/Phase
	7	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1564.000	-46.20	-46.63	-40.00	-6.20	0.43	Peak	Vertical
2		2344.000	-54.58	-59.10	-13.00	-41.58	4.52	Peak	Vertical

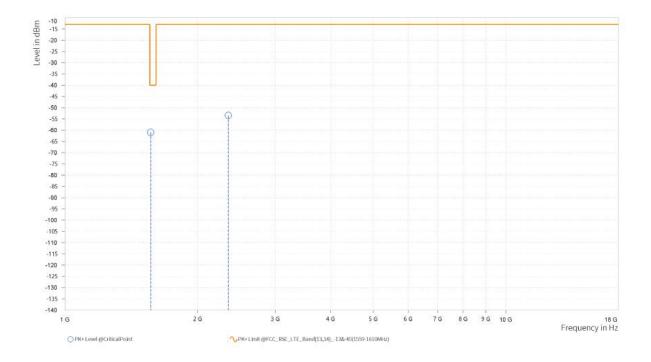




CH 23255

MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

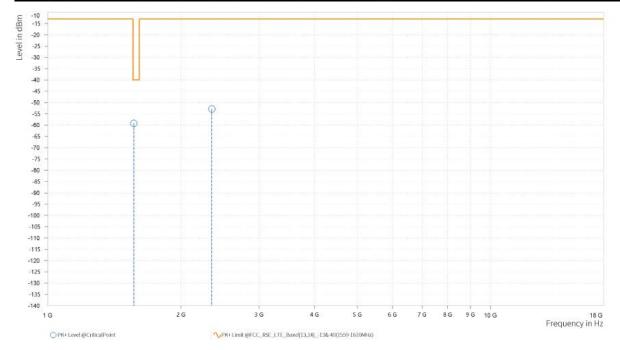
Rg	Frequency [MHz]	PK+ Level [dBm]		PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,564.500	-60.90	-40.00	20.90	13.31	Н	4.3	2
3	2,346.750	-53.45	-13.00	40.45	20.68	Н	299.3	1





MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

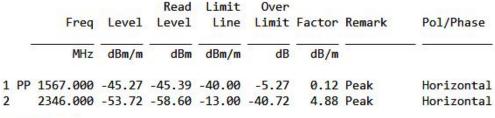
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,564.500	-59.24	-40.00	19.24	14.73	V	359	2
3	2,346.750	-52.83	-13.00	39.83	20.88	٧	1	1

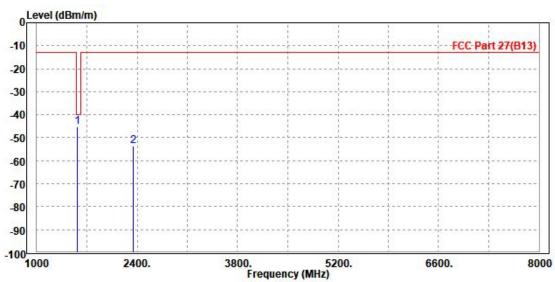




CHANNEL BANDWIDTH: 10MHz/QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ	
TESTED BY	Jace Hu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M				







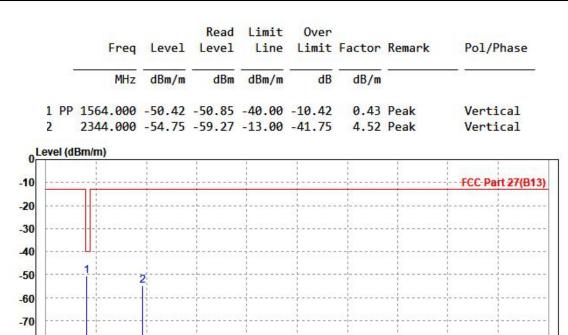
-80 -90

-100 1000

2400.

Test Report No.: W7L-P23070009-2RF03

MODE	TX channel 23230	channel 23230 FREQUENCY RANGE			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					



3800. 5200. Frequency (MHz)

6600.

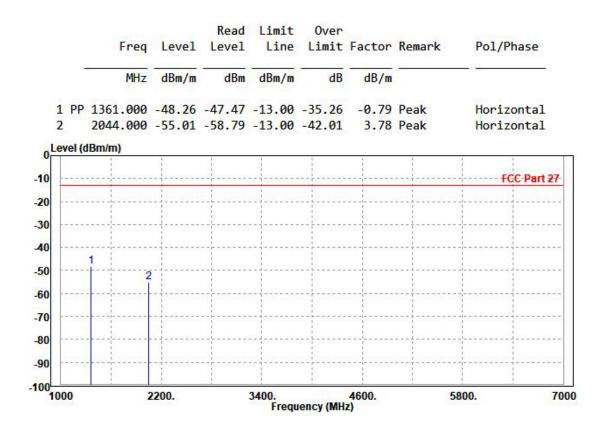
8000



LTE B71

CHANNEL BANDWIDTH: 5MHz / QPSK

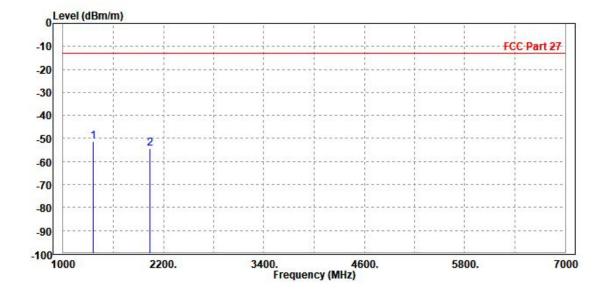
MODE	TX channel 133297	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					





MODE	TX channel 133297 FREQUENCY RANGE		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

	Freq	Level	33	Limit Line	445 155		Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	-	-
1 PP	1360.000	-51.50	-50.85	-13.00	-38.50	-0.65	Peak	Vertical
2	2041.500	-54.33	-58.03	-13.00	-41.33	3.70	Peak	Vertical

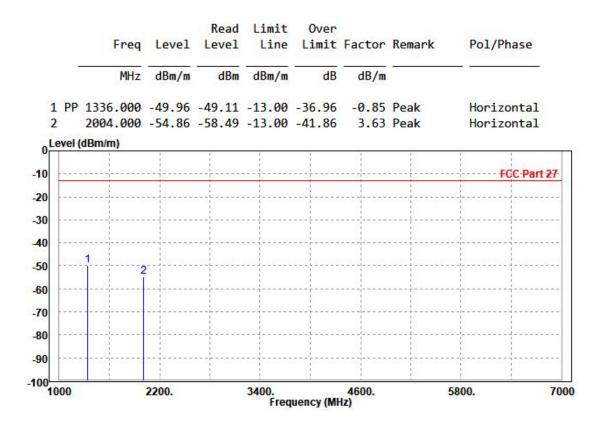




CHANNEL BANDWIDTH: 10MHz / QPSK

CH 133172

MODE	TX channel 133172	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					





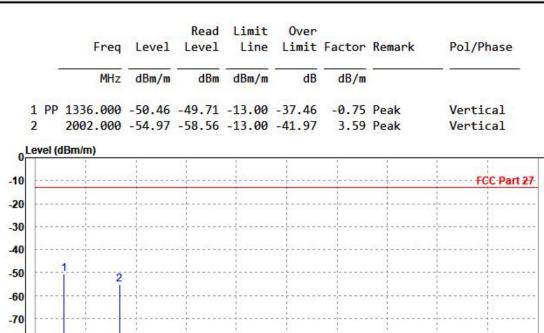
-80 -90

-100 1000

2200.

Test Report No.: W7L-P23070009-2RF03

MODE	TX channel 133172	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					



3400. 4600. Frequency (MHz)

5800.

7000



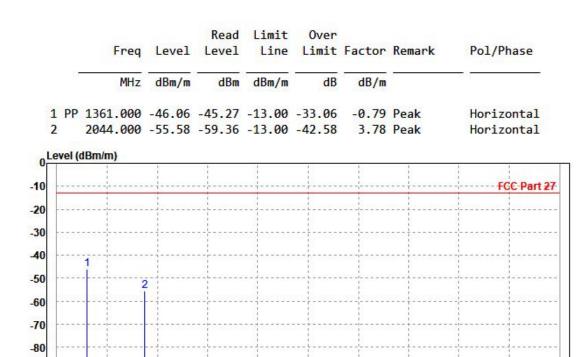
CH 133297

-90

-100 1000

2200.

MODE	TX channel 133297	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					



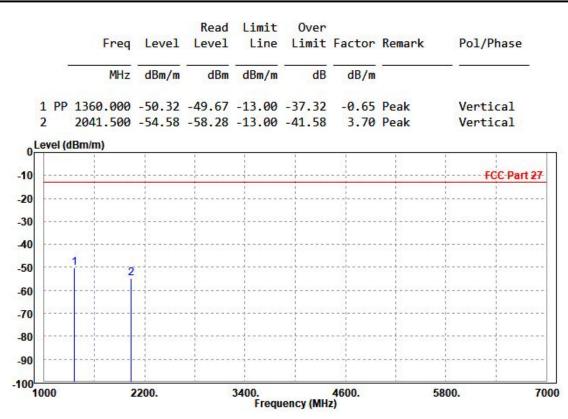
3400. 4600. Frequency (MHz)

5800.

7000



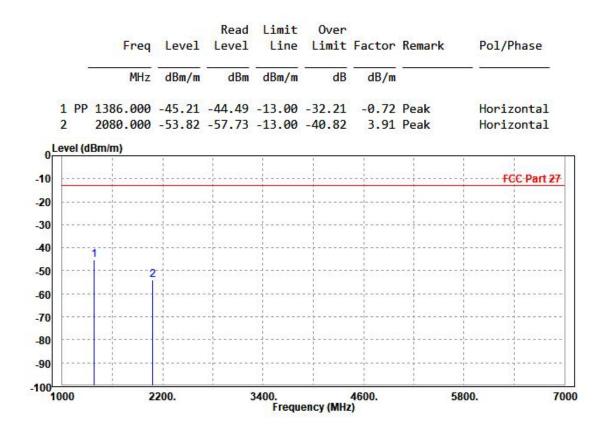
MODE	TX channel 133297	nannel 133297 FREQUENCY RANGE			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					





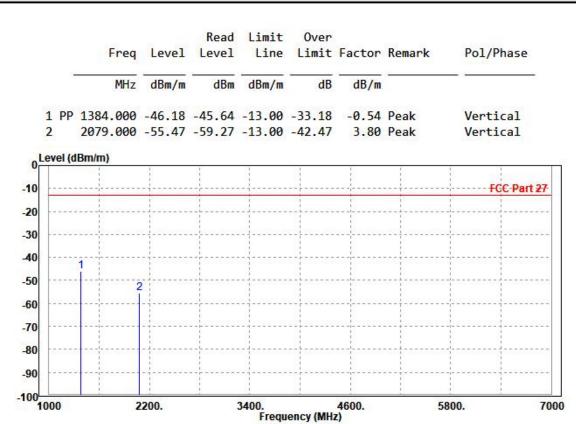
CH 133422

MODE	TX channel 133422	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz				
TESTED BY	Jace Hu	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							





MODE	TX channel 133422 FREQUENCY RANGE		Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz				
TESTED BY	Jace Hu	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

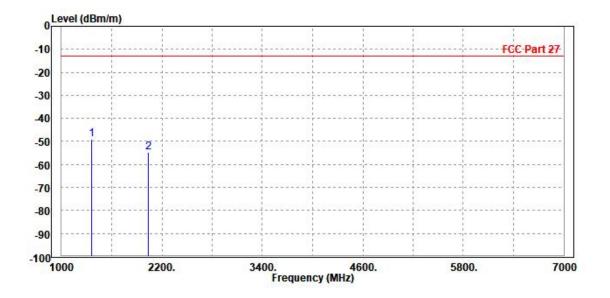




CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 133297	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz				
TESTED BY	Jace Hu	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

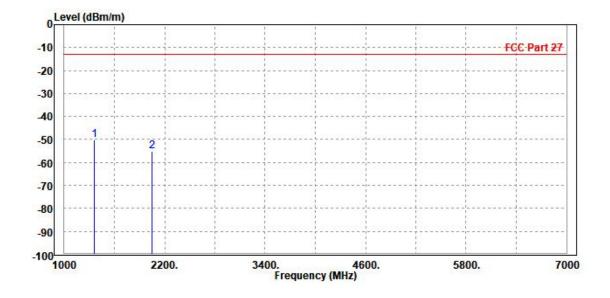
		Freq	Level	13070	Limit Line		Factor	Remark	Pol/Phase
	áð.	MHz	dBm/m	dBm	dBm/m	dB	dB/m	3C	
1	PP	1360.000	-48.97	-48.18	-13.00	-35.97	-0.79	Peak	Horizontal
2		2041.500	-54.92	-58.69	-13.00	-41.92	3.77	Peak	Horizontal





MODE	TX channel 133297 FREQUENCY RANGE		Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz				
TESTED BY	Jace Hu	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

		Freq	Level	2007000	0.000	Over Limit		Remark	Pol/Phase
	5-10	MHz	dBm/m	dBm	dBm/m	dB	dB/m		3/20
1	PP 136	1.000	-50.38	-49.74	-13.00	-37.38	-0.64	Peak	Vertical
2	204	4.000	-55.18	-58.88	-13.00	-42.18	3.70	Peak	Vertical

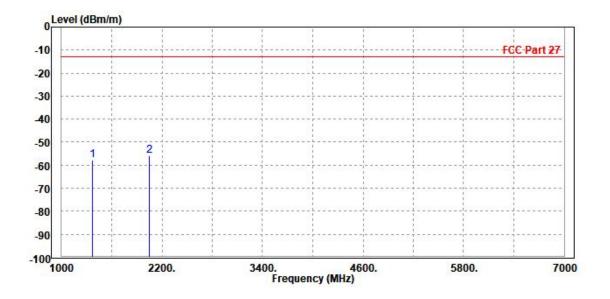




CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 133322 FREQUENCY RANGE		Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz				
TESTED BY	Jace Hu	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

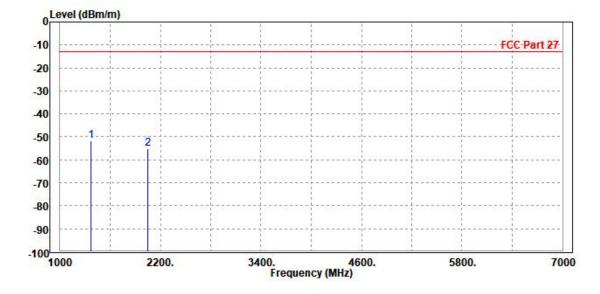
	Freq		Level		Limit Line		Factor	Remark	Pol/Phase
	82	MHz	dBm/m	dBm	dBm/m	dB	dB/m	S 	45-2
1		1366.000	-57.82	-57.04	-13.00	-44.82	-0.78	Peak	Horizontal
2	PP	2050.000	-55.88	-59.68	-13.00	-42.88	3.80	Peak	Horizontal





MODE	TX channel 133322	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz				
TESTED BY	Jace Hu	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

		Freq	Level	1,055750		Over Limit		Remark	Pol/Phase
	10	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1366.000	-51.70	-51.08	-13.00	-38.70	-0.62	Peak	Vertical
2		2049 000	-55.15	-58.87	-13.00	-42 15	3.72	Peak	Vertical



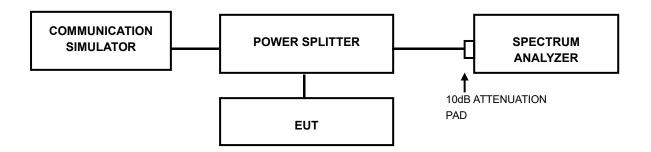


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.



3.7.4 TEST RESULTS

Refers to the data of W7L-P23070009RF03 $\,$ (FCC ID: 2AJYU-8XS0001, model: SIM7672G) $\,$.



4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

--END--