





RF TEST REPORT

Applicant Quectel Wireless Solutions Co., Ltd.

FCC ID XMR201707BG96

Product Quectel BG96

Brand Quectel

Model BG96

Report No. RXA1706-0199RF03R1

Issue Date July 12, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2017)/ FCC CFR47 Part 27C (2017). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Jiangpeng Lan

Jiang peng Lan

Approved by: Kai Xu

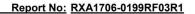
TA Technology (Shanghai) Co., Ltd.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Isotropic Radiated power	27.50(d)(4) /27.50(b)(10) /27.50(c)(10)	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	27.53(h) /27.53(g)	PASS
5	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
6	Frequency Stability	2.1055 / 27.54	PASS
7	Spurious Emissions at Antenna Terminals	2.1051 /27.53(h) /27.53(g) /27.53(f)	PASS
8	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(g) /27.53(f)	PASS
D-4 6 T-	national June 24 2047 July 2 2047	•	•

Date of Testing: June 24, 2017~ July 3, 2017

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology** (shanghai) co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.

1.2 Test facility

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (recognition number is 428261)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

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1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

City: Shanghai

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2 General Description of Equipment under Test

Client Information

Applicant	Quectel Wireless Solutions Co., Ltd.					
Applicant address	7th Floor, Hongye Building, No. 1801 Hongmei Road, Xuhui District, Shanghai, China					
Manufacturer	Quectel Wireless Solutions Co., Ltd.					
Manufacturer address	7th Floor, Hongye Building, No. 1801 Hongmei Road, Xuhui District, Shanghai, China					

General information

	EUT Description									
Model:	BG96									
Hardware Version:	R1.0									
Software Version:	BG96MAR02A02M1G									
Power Supply:	External power supply									
Antenna Type:	The EUT don't have statesting in this report is the Antenna)									
Test Mode(s):	LTE Band 4; LTE Band	12, LTE Band 13;								
Test Modulation	QPSK 16QAM;									
LTE Category	M1									
Maximum E.I.R.P./ E.R.P.	LTE Band 4: 29.98dBm LTE Band 12: 27.92dBn LTE Band 13: 27.70dBn									
Rated Power Supply Voltage:	3.8V									
Extreme Voltage:	Minimum: 3.3V Maxir	num: 4.3V								
Extreme Temperature:	Lowest: -40°C Highe	est: +85°C								
	Mode	Tx (MHz)	Rx (MHz)							
Operating Frequency Range(s)	LTE Band 4	1710 ~ 1755	2110 ~ 2155							
Operating Frequency Range(s)	LTE Band 12	699 ~ 716	729 ~ 746							
	LTE Band 13	777 ~ 787	746 ~ 756							
Note: 1. The information of the	EUT is declared by the m	anufacturer.								

Accessory equipment	
Evaluation Board	RF Cable
RS232-to-USB Cable	Antenna: Dipole Antenna
Headset	USB Cable



Report No: RXA1706-0199RF03R1

2.1 Applied Standards

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

Test standards

FCC CFR47 Part 2 (2017)

FCC CFR47 Part 27C (2017)

ANSI C63.26 (2015)

KDB 971168 D01 Power Meas License Digital Systems v02r02



3 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT lie-down stand-up position (X, Y axis), lie-down position (Z axis),. Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, vertical polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detailin the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/12/13:

Test items	Modes		Baı	ndwid	lth (M	Hz)		Modi	ulation		RB		С	Test hann	
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	М	Н
DE	LTE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RF power output	LTE 12	0	0	0	0	ı	-	0	0	0	0	0	0	0	0
- Carpar	LTE 13	-	-	0	0	•	-	0	0	0	0	0	0	0	0
Effective	LTE 4	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Isotropic Radiated	LTE 12	0	0	0	0	1	1	0	0	-	-	0	0	0	0
power	LTE 13	-	-	0	0	•	-	0	0	-	-	0	0	0	0
	LTE 4	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Occupied Bandwidth	LTE 12	0	0	0	0	1	-	0	0	1	> 1	0	0	0	0
Barrawiatri	LTE 13	·	-	0	0	1	-	0	0	-	-	0	0	0	0
	LTE 4	0	0	0	0	0	0	0	0	0	; = ;	0	0	-	0
Band Edge Compliance	LTE 12	0	0	0	0	-	-	0	0	0	-	0	0	-	0
Compilarios	LTE 13	ı	•	0	0	ı	ı	0	0	0	-	0	0		0
Peak-to-Aver	LTE 4	0	0	0	0	0	0	0	0	1 – 1	. - .	0	0	0	0
age Power	LTE 12	0	0	0	0	1	1	0	0	-	-	0	0	0	0
Ratio	LTE 13	•	-	0	0	ı	-	0	0	-	-	0	0	0	0
F	LTE 4	0	0	0	0	0	0	0	0	-	-	0	ı	0	-
Frequency Stability	LTE 12	0	0	0	0	1	1	0	0	-	-	0	1	0	-
	LTE 13	-	-	0	0	-	¥	0	0	-	-	0	•	0	-
Spurious	LTE 4	0	0	0	0	0	0	0	-	0	-	-	0	0	0
Emissions at Antenna	LTE 12	0	0	0	0	•	-	0	-	0	-	-	0	0	0
Terminals	LTE 13	-	-	0	0	-	-	0	-	0	N=1	_	0	0	0

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<u>FC</u>	C RF Test R	eport								Report	No: RXA1	706-0199F	RF03R	<u>1</u>	
Radiates	LTE 4	0	0	0	0	0	0	0	-	0	> 1)	-	0	0	0
Spurious	LTE 12	0	0	0	0	-	-	0	-	0	-	-	0	0	0
Emission	LTE 13	-	-	0	0	-	-	0	-	0	; - ;	-	0	0	0
Nata	1. The mai	ark "C	D" mea	ans th	at this	config	guratio	n is cho	sen for tes	ting.					
Note	2. The m	ark "-	" mea	ns tha	t this o	config	uratior	n is not te	esting.						



4 Test Information

4.1 RF Power Output

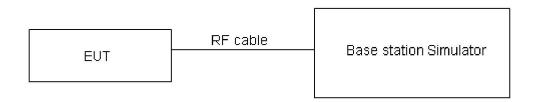
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



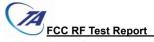
The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U=0.4 dB.



	LTE TDD B	and 4		AV Conducted Power(dBm)					
_					Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	19957/1710.7	20175/1732.5				
	- 8	1	0	22.38	22.31	22.37			
		1	3	22.39	22.17	22.33			
	ž.	1	5	22.28	22.27	22.36			
	QPSK	3	0	22.24	22.16	22.31			
	8	3	2	22.23	22.11	22.30			
	9	3	3	22.36	22.13	22.35			
4 40011-	8	6	0	22.13	22.09	22.23			
1.4MHz		1	0	21.94	22.02	22.13			
	*	1	3	22.15	22.01	22.16			
	8	1	5	22.16	21.93	22.35			
	16QAM	3	0	22.08	21.84	21.94			
	*	3	2	22.07	21.92	21.94			
	ä	3	3	22.08	21.88	21.96			
	2	5	0	22.06	22.03	22.21			
Daniel dela	Madulation	DD sins	DD affact	Channel/Frequency (MHz)					
Bandwidth	Modulation	RB size	RB offset	19965/1711.5	20175/1732.5	20385/1753.5			
	2	1	0	22.40	22.35	22.40			
		1	3	22.42	22.22	22.37			
	2	1	5	22.31	22.32	22.40			
	QPSK	3	0	22.24	22.18	22.34			
	3	3	2	22.25	22.11	22.32			
		3	3	22.36	22.14	22.35			
2MU-		6	0	22.16	22.13	22.26			
3MHz		1	0	21.97	22.04	22.16			
		1	3	22.18	22.06	22.20			
		1	5	22.18	21.97	22.38			
	16QAM	3	0	22.09	21.87	21.96			
	8	3	2	22.08	21.95	21.96			
	4	3	3	22.08	21.90	21.99			
	5	5	0	22.09	22.07	22.24			
Bandwidth	Modulation	RB size	RB offset	Char	nel/Frequency (MHz)			
Danuwidin	iviodulation	LD SIZE	KD OUSEL	19975/1712.5	20175/1732.5	20375/1752.5			
		1	0	22.37	22.33	22.36			
		1	3	22.40	22.18	22.34			
	***************************************	1	5	22.28	22.27	22.36			
5MHz	QPSK	3	0	22.21	22.13	22.30			
		3	2	22.23	22.07	22.27			
		3	3	22.34	22.12	22.31			
	*	6	0	22.14	22.12	22.24			

FCC RF Test	Report				Report No: R	XA1706-0199RF03R		
		1	0	21.94	22.00	22.13		
		1	3	22.15	22.04	22.17		
	9	1	5	22.15	21.95	22.34		
	16QAM	3	0	22.07	21.83	21.93		
	,	3	2	22.05	21.90	21.92		
		3	3	22.05	21.85	21.95		
	1	5	0	22.07	22.03	22.19		
Dandudalth	Modulation	DD size	DR offeet	Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	20000/1715	20175/1732.5	20350/1750		
		1	0	22.39	22.34	22.39		
	,	1	3	22.43	22.23	22.38		
		1	5	22.30	22.31	22.39		
	QPSK	3	0	22.24	22.18	22.34		
	£	3	2	22.26	22.12	22.31		
		3	3	22.36	22.16	22.36		
10MHz		6	0	22.22	22.14	22.28		
TUIVIEZ		1	0	21.96	22.03	22.15		
		1	3	22.18	22.08	22.20		
	8	1	5	22.18	21.97	22.37		
	16QAM	3	0	22.10	21.88	21.97		
	3	3	2	22.07	21.94	21.95		
	,	3	3	22.08	21.90	21.99		
		5	0	22.10	22.08	22.23		
Damelouialth	Madulation	DD size	DR offeet	Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	20025/1717.5	20175/1732.5	20325/1747.5		
		1	0	22.38	22.30	22.37		
		1	3	22.41	22.22	22.35		
		1	5	22.27	22.26	22.35		
	QPSK	3	0	22.22	22.14	22.31		
		3	2	22.23	22.07	22.27		
		3	3	22.33	22.13	22.32		
45MU-	8	6	0	22.20	22.10	22.23		
15MHz		1	0	21.91	22.01	22.13		
	1	1	3	22.16	22.05	22.18		
	,	1	5	22.15	21.93	22.34		
	16QAM	3	0	22.07	21.86	21.94		
	,	3	2	22.04	21.89	21.91		
		3	3	22.06	21.86	21.96		
	,	5	0	22.07	22.03	22.19		
Danish of 10	Modulatian	DD ei-	DD -#	Char	nnel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20050/1720	20175/1732.5	20300/1745		
208411-	ODOK	1	0	22.35	22.26	22.34		
20MHz	QPSK	1	3	22.40	22.18	22.33		

FCC RF Test Report				Report No: F	RXA1706-0199RF03R
	1	5	22.25	22.25	22.32
	3	0	22.19	22.09	22.27
	3	2	22.21	22.03	22.24
	3	3	22.30	22.08	22.28
	6	0	22.17	22.05	22.19
	1	0	21.89	21.97	22.08
	1	3	22.12	22.03	22.14
	1	5	22.13	21.90	22.32
16QAM	3	0	22.04	21.82	21.91
	3	2	22.01	21.87	21.88
	3	3	22.03	21.81	21.92
	5	0	22.05	21.99	22.16
Note:1) The following tes	tina in wors	t case base	d on the maximu	ım RF Output Po	ower

LTE	FDD Band 12			AV Co	nducted Power	r(dBm)	
Donalusialth	Modulation	RB	DD offeet	Chan	nel/Frequency (MHz)	
Bandwidth	Modulation	size	RB offset	23017/699.7	23095/707.5	23173/715.3	
		1	0	22.74	23.12	23.37	
		1	3	22.80	23.24	23.23	
		1	5	22.87	23.32	23.13	
	QPSK	3	0	23.00	23.17	23.07	
		3	2	22.91	23.26	23.18	
		3	3	22.96	23.22	23.13	
1.4MHz		6	0	22.48	22.66	22.64	
1.4111112		1	0	23.23	22.81	23.02	
		1	3	23.64	23.16	23.17	
	16QAM	1	5	23.60	23.17	22.93	
		3	0	23.38	22.81	22.76	
		3	2	23.33	22.75	22.81	
		3	3	23.35	22.74	22.83	
		5	0	22.71	22.90	22.79	
Bandwidth	Modulation	RB	RB offset	Channel/Frequency (MHz)			
Bandwidth	Modulation	size	IVD Olloct	23025/700.5	23095/707.5	23165/714.5	
		1	0	22.76	23.13	23.40	
		1	3	22.83	23.29	23.27	
		1	5	22.89	23.36	23.16	
	QPSK	3	0	23.03	23.22	23.11	
3MHz		3	2	22.94	23.31	23.22	
JIVITIZ		3	3	22.98	23.26	23.18	
		6	0	22.56	22.68	22.68	
		1	0	23.25	22.84	23.04	
	16QAM	1	3	23.67	23.20	23.20	
		1	5	23.63	23.19	22.96	

FCC RF Test	Report				Report No: R	XA1706-0199RF03F
		3	0	23.41	22.86	22.80
		3	2	23.35	22.79	22.84
		3	3	23.38	22.79	22.87
		5	0	22.74	22.95	22.83
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				23035/701.5	23095/707.5	23155/713.5
	QPSK	1	0	22.75	23.09	23.38
		1	3	22.81	23.28	23.24
		1	5	22.86	23.31	23.12
5MHz		3	0	23.01	23.18	23.08
		3	2	22.91	23.26	23.18
		3	3	22.95	23.23	23.14
		6	0	22.54	22.64	22.63
		1	0	23.20	22.82	23.02
		1	3	23.65	23.17	23.18
		1	5	23.60	23.15	22.93
	16QAM	3	0	23.38	22.84	22.77
		3	2	23.32	22.74	22.80
		3	3	23.36	22.75	22.84
		5	0	22.71	22.90	22.79
D 1 ' 1/1	Modulation	RB	DD - # 1	Channel/Frequency (MHz)		
Bandwidth		size	RB offset	23060/704	23095/707.5	23130/711
	QPSK	1	0	22.72	23.05	23.35
		1	3	22.80	23.24	23.22
		1	5	22.84	23.30	23.09
10MHz		3	0	22.98	23.13	23.04
		3	2	22.89	23.22	23.15
		3	3	22.92	23.18	23.10
		6	0	22.51	22.59	22.59
	16QAM	1	0	23.18	22.78	22.97
		1	3	23.61	23.15	23.14
		1	5	23.58	23.12	22.91
		3	0	23.35	22.80	22.74
		3	2	23.29	22.72	22.77
		3	3	23.33	22.70	22.80
		5	0	22.69	22.86	22.76



LTE FDD Band 13				Conducted Power(dBm)		
Donalosialit	Madulatica	RB size	RB offset	Channel/Frequency (MHz)		
Bandwidth	Modulation			23205/779.5	23230/782	23255/784.5
	QPSK	1	0	23.10	23.32	23.11
		1	3	23.11	23.35	23.00
		1	5	23.07	23.40	23.05
		3	0	22.85	22.77	22.75
		3	2	22.79	22.71	22.76
		3	3	22.76	22.69	22.72
5MHz		6	0	22.80	22.68	22.67
SIVITZ		1	0	23.81	23.14	23.72
		1	3	23.71	23.13	23.91
	16QAM	1	5	23.86	23.00	23.87
		3	0	22.78	22.31	22.87
		3	2	22.81	22.44	22.92
		3	3	22.90	22.57	22.89
		5	0	21.84	22.19	21.93
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
Bandwidth				1	23230/782	1
	QPSK	1	0	1	23.07	1
		1	3	1	23.13	/
		1	5	1	23.00	1
		3	0	1	23.16	1
		3	2	1	23.19	1
10MHz		3	3	1	23.20	1
		6	0	1	22.77	/
	16QAM	1	0	1	23.70	1
		1	3	1	23.79	1
		1	5	1	23.34	/
		3	0	/	23.32	/
		3	2	1	23.35	1
		3	3	1	23.38	1
		5	0	1	22.95	1



4.2 Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure	
23°C ~25°C	45%~50%	101.5kPa	

Methods of Measurement

- 1. The testing follows ANSI C63.26 (2015) Section 5.5.2.3.
- 2. Above 30MHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
- 3. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (Pr).
- 5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

Power(EIRP)=PMea-PcI + Ga

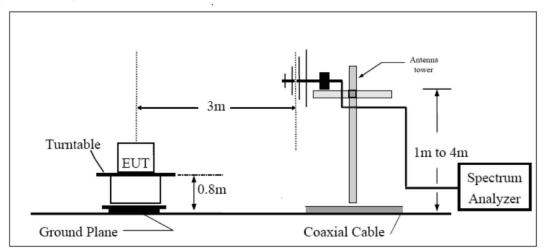
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

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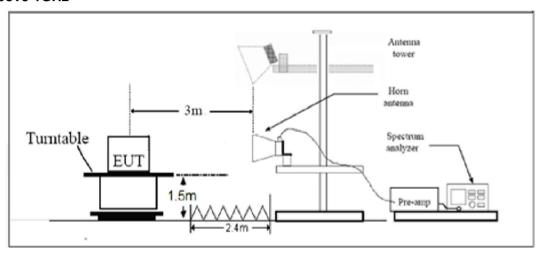


Test setup

30MHz~~~ 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m



Limits

Rule Part 27.50(b) (10) specifies that "Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP"

Rule Part 27.50(c) (10) specifies that "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP"

Rule Part 27.50(d) (4) specifies that "Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP"

Part 27.50(b)(10)Limit (ERP)	≤ 3 W (34.77 dBm)
Part 27.50(c)(10)Limit (ERP)	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit (EIRP)	≤ 1 W (30 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 1.19 dB

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