



Radio Test Report

Report No.: STS2502057W01

Issued for

Foxx Development Inc.

3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005,
United States

Product Name: LPWA Module

Brand Name: FOXX

Model Name: IQ20

Series Model: N/A

FCC ID: 2AQRM-IQ20

Test Standard: 47 CFR Part 2, 24(E), 27

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name.....: Foxx Development Inc.
Address.....: 3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005,
United States
Manufacturer's Name.....: Foxx Development Inc.
Address.....: 3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005,
United States

Product Description

Product Name.....: LPWA Module
Brand Name.....: FOXX
Model Name.....: IQ20
Series Model.....: N/A

Test Standards.....: 47 CFR Part 2, 24(E), 27
Test Procedure.....: KDB 971168 D01 v03r01, ANSI C63.26 2015

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test.....:

Date of receipt of test item.....: 19 Feb. 2025
Date (s) of performance of tests : 19 Feb. 2025 ~ 17 Mar. 2025
Date of Issue.....: 17 Mar. 2025
Test Result.....: Pass

Testing Engineer :

(Lenon Hou)

Technical Manager :

(Tony Liu)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	17 Mar. 2025	STS2502057W01	ALL	Initial Issue



SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26(2015)

Test Description	FCC Rules	Band	Test Limit	Test Result
Conducted Output Power	2.1046	/	Reporting Only	PASS
Transmitter Radiated Power	22.913	B5, B26	ERP < 7 Watt	PASS
	24.232(c)	B2, B25	EIRP < 2Watt	
	27.50(b)	B13	ERP < 3 Watt	
	27.50(c)	B12	ERP < 3 Watt	
	27.50(d)	B4, B66	EIRP < 1Watt	
	90.542	B14	ERP < 3Watt	
	90.635(b)	B26	ERP < 100Watt	
Peak-to-Average Ratio	22.913(d)	B5, B26	< 13 dB	PASS
	24.232(d)	B2		
	27.50	B4, B12, B13, B66		
Occupied Bandwidth	2.1049	/	Reporting Only	PASS
Frequency Stability	2.1055	/	< 2.5 ppm	PASS
	22.355	B5, B26		
	24.235	B2, B25		
	27.54	B4, B12, B13, B66		
	90.213	B26		
	90.539	B14	<1.25 ppm	PASS
Spurious Emission at Antenna Terminals	2.1051	/	< 43+10log10(P[Watts])	PASS
	22.917	B5, B26		
	24.238(a)	B2, B25		



	27.53(c)	B13		
	27.53(g)	B12		
	27.53(h)	B4, B66		
	90.543(e)	B14		
	90.691	B26		
Band Edge	2.1051	/	Please refer to standard	PASS
	22.917	B5, B26		
	24.238(a)	B2, B25		
	27.53(c)	B13		
	27.53(g)	B12		
	27.53(h)	B4, B66		
	90.543(e)	B14		
	90.691	B26		
Field Strength of Spurious Radiation	2.1053	/	< 43+10log10(P[Watts])	PASS
	22.917	B5, B26		
	24.238(a)	B2		
	27.53(c)	B13		
	27.53(g)	B12		
	27.53(h)	B4, B66		
	90.543(e)	B14		
	90.691	B26		



1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 30-1GHz	$\pm 4.18\text{dB}$
4	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
5	All emissions, radiated >6G	$\pm 5.24\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
8	Occupied Channel Bandwidth	$\pm 3.5\%$
9	Peak-to-Average Ratio	$\pm 0.845\text{dB}$



2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name	LPWA Module
Trade Name	FOXX
Model Name	IQ20
Series Model	N/A
Model Difference	N/A
Frequency Bands	TX: CAT-M Band 2:1850-1910MHz CAT-M Band 4:1710-1755MHz CAT-M Band 5:824-849MHz CAT-M Band 12:699-716MHz CAT-M Band 13:777-787MHz CAT-M Band 14: 788-798 MHz CAT-M Band 25:1850-1915MHz CAT-M Band 26 Part 90:814-824MHz CAT-M Band 26 Part 22:824-849 MHz CAT-M Band 66:1710-1780MHz RX: CAT-M Band 2:1930-1990MHz CAT-M Band 4:2110-2155MHz CAT-M Band 5:869-894MHz CAT-M Band 7:2620-2690MHz CAT-M Band 12:729-746MHz CAT-M Band 13:746-756MHz CAT-M Band 14: 758-768MHz CAT-M Band 25:1930-1995MHz CAT-M Band 26 Part 90:859-869MHz CAT-M Band 26 Part 22:869-894MHz CAT-M Band 66:2110-2200MHz
Max RF Output Power:	CAT-M Band 2: 22.09dBm CAT-M Band 4: 21.70dBm CAT-M Band 5: 21.80dBm CAT-M Band 12: 22.12dBm CAT-M Band 13: 21.63 dBm CAT-M Band 14: 21.79dBm CAT-M Band 25: 21.06dBm CAT-M Band 26 Part 22: 21.76dBm CAT-M Band 26 Part 90: 21.83dBm CAT-M Band 66: 21.28dBm
Modulation Characteristics:	CAT-M: QPSK /16QAM
SIM Card	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested
Antenna	External
Antenna gain	CAT-M B2:1.63 dBi CAT-M B4:3.12 dBi CAT-M B5:0.64 dBi



	CAT-M B12:0.95 dBi CAT-M B13:2.23 dBi CAT-M B14:2.18 dBi CAT-M B25:1.87 dBi CAT-M B26:0.91 dBi CAT-M B66:3.12 dBi
Power Rating	Input: DC 3.8V
Adapter	N/A
Battery	N/A
Extreme Vol. Limits	DC2.7V ~ DC4.8V (Normal: DC 3.8V)
Extreme Temp. Tolerance	-40°C to +85°C
Hardware version number	V1.03
Software version number	R2117.01

**** Note:** The High Voltage DC4.8V and Low Voltage DC2.7V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



2.1.2 EMISSION DESIGNATOR

CAT-M Band 2	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M28G7D	1M18W7D
3	1M28G7D	1M23W7D
5	1M30G7D	1M14W7D
10	1M32G7D	1M17W7D
15	1M33G7D	1M21W7D
20	1M32G7D	1M19W7D

CAT-M Band 4	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M28G7D	1M17W7D
3	1M27G7D	1M24W7D
5	1M33G7D	1M13W7D
10	1M34G7D	1M14W7D
15	1M34G7D	1M20W7D
20	1M33G7D	1M20W7D

CAT-M Band 5	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M29G7D	1M22W7D
3	1M27G7D	1M20W7D
5	1M31G7D	1M16W7D
10	1M31G7D	1M16W7D

CAT-M Band 12	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M29G7D	1M25W7D
3	1M28G7D	1M21W7D
5	1M33G7D	1M16W7D
10	1M32G7D	1M16W7D

CAT-M Band 13	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
5	1M30G7D	1M16W7D
10	1M30G7D	1M18W7D
CAT-M Band 13	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
5	1M30G7D	1M16W7D
10	1M30G7D	1M18W7D



CAT-M Band 25	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M29G7D	1M18W7D
3	1M29G7D	1M16W7D
5	1M29G7D	1M17W7D
10	1M30G7D	1M16W7D
15	1M32G7D	1M18W7D
20	1M34G7D	1M19W7D

CAT-M Band 26 Part22	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M28G7D	1M25W7D
3	1M26G7D	1M25W7D
5	1M31G7D	1M16W7D
10	1M30G7D	1M16W7D
15	1M34G7D	1M18W7D

CAT-M Band 26 Part90	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M31G7D	1M16W7D
3	1M29G7D	1M18W7D
5	1M30G7D	1M15W7D
10	1M30G7D	1M17W7D

CAT-M Band 66	Emission Designator	Emission Designator
BW(MHz)	(26dBc)QPSK	(26dBc)16QAM
1.4	1M29G7D	1M11W7D
3	1M28G7D	1M23W7D
5	1M28G7D	1M15W7D
10	1M33G7D	1M18W7D
15	1M32G7D	1M19W7D
20	1M33G7D	1M17W7D



2.1.3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Remark:

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.

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	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	
	14			v	v			v	v	v	v	v		v	
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v		v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak&Avera Ratio	2	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
	5	v	v	v	v			v	v	v			v	v	v
	12	v	v	v	v			v	v	v			v	v	v
	13			v	v			v	v	v				v	
	14			v	v			v	v	v				v	
	25	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v		v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v			v	v	v
26dB&99% Bandwidth	2	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
	5	v	v	v	v			v	v			v	v	v	v
	12	v	v	v	v			v	v			v	v	v	v
	13			v	v			v	v			v		v	
	14			v	v			v	v			v		v	
	25	v	v	v	v	v	v	v	v			v	v	v	v
	26	v	v	v	v	v		v	v			v	v	v	v
	66	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	v	v			v	v		v
	4	v	v	v	v	v	v	v	v			v	v		v
	5	v	v	v	v			v	v			v	v		v
	12	v	v	v	v			v	v			v	v		v
	13			v	v			v	v			v		v	
	14			v	v			v	v			v		v	



	25	V	V	V	V	V	V	V	V			V	V		V
	26	V	V	V	V	V		V	V			V	V		V
	66	V	V	V	V	V	V	V	V			V	V		V
Conducted Spurious Emission	2	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
	5	V	V	V	V			V	V	V		V	V	V	V
	12	V	V	V	V			V	V	V		V	V	V	V
	13			V	V			V	V	V		V		V	
	14			V	V			V	V	V		V		V	
	25	V	V	V	V	V	V	V	V	V		V	V	V	V
	26	V	V	V	V	V		V	V	V		V	V	V	V
	66	V	V	V	V	V	V	V	V	V		V	V	V	V
Frequency Stability	2				V			V				V		V	
	4				V			V				V		V	
	5				V			V				V		V	
	12				V			V				V		V	
	13				V			V				V		V	
	14				V			V				V		V	
	25				V			V				V		V	
	26				V			V				V		V	
	66				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	
	14			V	V			V	V	V	V	V		V	
	25	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	26	V	V	V	V	V		V	V	V	V	V	V	V	V
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Radiated Spurious Emission	2	V	V	V	V	V	V	V		V			V	V	V
	4	V	V	V	V	V	V	V		V			V	V	V
	5	V	V	V	V			V		V			V	V	V
	12	V	V	V	V			V		V			V	V	V
	13			V	V			V		V				V	
	14			V	V			V		V				V	
	25	V	V	V	V	V	V	V		V			V	V	V
	26	V	V	V	V	V		V		V			V	V	V
	66	V	V	V	V	V	V	V		V			V	V	V



2.1.4 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 24(E), 27.

2.1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.6 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.7 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.



2.1.8 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Wireless Communications Test Set	R&S	CMW 500	117239	2024.09.23	2025.09.22
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22
Pre-mplifier(18G-40G)	SKET	LNPA 1840-50	SK2018101801	2025.02.22	2026.02.21
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Video Controller	SKET	FCS C-3	N/A	N/A	N/A
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2024.09.25	2025.09.24
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	N/A	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EMC Test Software	15.2.0.339			
	EZ-EMC	Ver.STSLAB-03A1 RE			
RF Connected Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Wireless Communications Test Set	R&S	CMW 500	131428	2025.02.22	2026.02.21
Signal Analyzer	Agilent	N9020A	MY52440124	2025.02.22	2026.02.21
RF Automatic Test System	Maiwei	MW200-SFCB	N/A	N/A	N/A
Power Divider	QYMW	QY-PS2-1/26.5-KE	N/A	2025.02.22	2026.02.21
Temperature & Humidity Test Chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Programmable Power Supply	Agilent	E3642A	MY40002025	2024.09.23	2025.09.22
Test SW	MTS 8200	2.0.0.0			



2.1.9 MEASUREMENT RESULTS EXPLANATION EXAMPLE

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF Cable Loss + Attenuator Factor.

3. CONDUCTED OUTPUT POWER&RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

CONDUCTED OUTPUT POWER:

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.

Configuration follows KDB 971168 D01 v03r01.

C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

(1) $ERP \text{ or } EIRP = P_{Meas} + GT$

$ERP = EIRP - 2.15$

where

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

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

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

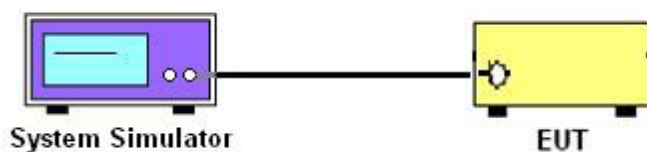
For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

a) $ERP = EIRP - 2.15$, where ERP and EIRP are expressed in consistent units.

b) $EIRP = ERP + 2.15$, where ERP and EIRP are expressed in consistent units.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

1. The transmitter output port was connected to system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest/middle/highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.1.4 TEST RESULTS

Radiated Power (EIRP) for CAT-M Band 2 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	20.18	1.63	21.81	2.00	33.01	PASS
		6	0		19.7	1.63	21.33	2.00	33.01	PASS
		1	0	16-QAM	20.6	1.63	22.23	2.00	33.01	PASS
		5	0		19.69	1.63	21.32	2.00	33.01	PASS
	Middle	1	0	QPSK	21.96	1.63	23.59	2.00	33.01	PASS
		6	0		19.81	1.63	21.44	2.00	33.01	PASS
		1	0	16-QAM	20.72	1.63	22.35	2.00	33.01	PASS
		5	0		19.81	1.63	21.44	2.00	33.01	PASS
	Highest	1	0	QPSK	21.76	1.63	23.39	2.00	33.01	PASS
		6	0		19.81	1.63	21.44	2.00	33.01	PASS
		1	0	16-QAM	20.77	1.63	22.40	2.00	33.01	PASS
		5	0		19.94	1.63	21.57	2.00	33.01	PASS

Radiated Power (EIRP) for CAT-M Band 2 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	21.74	1.63	23.37	2.00	33.01	PASS
		6	0		19.6	1.63	21.23	2.00	33.01	PASS
		1	0	16-QAM	20.5	1.63	22.13	2.00	33.01	PASS
		5	0		19.61	1.63	21.24	2.00	33.01	PASS
	Middle	1	0	QPSK	21.97	1.63	23.60	2.00	33.01	PASS
		6	0		19.9	1.63	21.53	2.00	33.01	PASS
		1	0	16-QAM	20.72	1.63	22.35	2.00	33.01	PASS
		5	0		19.82	1.63	21.45	2.00	33.01	PASS
	Highest	1	0	QPSK	21.58	1.63	23.21	2.00	33.01	PASS
		6	0		19.79	1.63	21.42	2.00	33.01	PASS
		1	0	16-QAM	20.8	1.63	22.43	2.00	33.01	PASS
		5	0		19.92	1.63	21.55	2.00	33.01	PASS

Radiated Power (EIRP) for CAT-M Band 2 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	21.6	1.63	23.23	2.00	33.01	PASS
		6	0		20.54	1.63	22.17	2.00	33.01	PASS
		1	0	16-QAM	21.66	1.63	23.29	2.00	33.01	PASS
		5	0		20.64	1.63	22.27	2.00	33.01	PASS
	Middle	1	0	QPSK	21.82	1.63	23.45	2.00	33.01	PASS
		6	0		20.78	1.63	22.41	2.00	33.01	PASS
		1	0	16-QAM	21.87	1.63	23.50	2.00	33.01	PASS
		5	0		20.87	1.63	22.50	2.00	33.01	PASS
	Highest	1	0	QPSK	21.69	1.63	23.32	2.00	33.01	PASS
		6	0		20.9	1.63	22.53	2.00	33.01	PASS
		1	0	16-QAM	21.87	1.63	23.50	2.00	33.01	PASS
		5	0		21.05	1.63	22.68	2.00	33.01	PASS



Radiated Power (EIRP) for CAT-M Band 2 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	21.54	1.63	23.17	2.00	33.01	PASS
		6	0		21.65	1.63	23.28	2.00	33.01	PASS
		1	0	16-QAM	21.71	1.63	23.34	2.00	33.01	PASS
		5	0		21.73	1.63	23.36	2.00	33.01	PASS
	Middle	1	0	QPSK	21.75	1.63	23.38	2.00	33.01	PASS
		6	0		21.9	1.63	23.53	2.00	33.01	PASS
		1	0	16-QAM	21.87	1.63	23.50	2.00	33.01	PASS
		5	0		21.87	1.63	23.50	2.00	33.01	PASS
	Highest	1	0	QPSK	21.72	1.63	23.35	2.00	33.01	PASS
		6	0		21.88	1.63	23.51	2.00	33.01	PASS
		1	0	16-QAM	22.01	1.63	23.64	2.00	33.01	PASS
		5	0		22.01	1.63	23.64	2.00	33.01	PASS

Radiated Power (EIRP) for CAT-M Band 2 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	21.71	1.63	23.34	2.00	33.01	PASS
		6	0		21.61	1.63	23.24	2.00	33.01	PASS
		1	0	16-QAM	21.67	1.63	23.30	2.00	33.01	PASS
		5	0		21.78	1.63	23.41	2.00	33.01	PASS
	Middle	1	0	QPSK	21.79	1.63	23.42	2.00	33.01	PASS
		6	0		21.8	1.63	23.43	2.00	33.01	PASS
		1	0	16-QAM	22.04	1.63	23.67	2.00	33.01	PASS
		5	0		21.94	1.63	23.57	2.00	33.01	PASS
	Highest	1	0	QPSK	21.63	1.63	23.26	2.00	33.01	PASS
		6	0		21.88	1.63	23.51	2.00	33.01	PASS
		1	0	16-QAM	21.85	1.63	23.48	2.00	33.01	PASS
		5	0		22.03	1.63	23.66	2.00	33.01	PASS

Radiated Power (EIRP) for CAT-M Band 2 /20M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	0	QPSK	21.64	1.63	23.27	2.00	33.01	PASS
		6	0		21.55	1.63	23.18	2.00	33.01	PASS
		1	0	16-QAM	21.66	1.63	23.29	2.00	33.01	PASS
		5	0		21.69	1.63	23.32	2.00	33.01	PASS
	Middle	1	0	QPSK	21.81	1.63	23.44	2.00	33.01	PASS
		6	0		21.82	1.63	23.45	2.00	33.01	PASS
		1	0	16-QAM	21.93	1.63	23.56	2.00	33.01	PASS
		5	0		21.86	1.63	23.49	2.00	33.01	PASS
	Highest	1	0	QPSK	21.69	1.63	23.32	2.00	33.01	PASS
		6	0		21.96	1.63	23.59	2.00	33.01	PASS
		1	0	16-QAM	22	1.63	23.63	2.00	33.01	PASS
		5	0		22.09	1.63	23.72	2.00	33.01	PASS



Radiated Power (EIRP) for CAT-M Band 4 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	20.16	3.12	23.28	1.00	30.00	PASS
		6	0		19.42	3.12	22.54	1.00	30.00	PASS
		1	0	16-QAM	20.41	3.12	23.53	1.00	30.00	PASS
		5	0		20	3.12	23.12	1.00	30.00	PASS
	Middle	1	0	QPSK	21.57	3.12	24.69	1.00	30.00	PASS
		6	0		19.45	3.12	22.57	1.00	30.00	PASS
		1	0	16-QAM	20.45	3.12	23.57	1.00	30.00	PASS
		5	0		19.47	3.12	22.59	1.00	30.00	PASS
	Highest	1	0	QPSK	21.54	3.12	24.66	1.00	30.00	PASS
		6	0		19.71	3.12	22.83	1.00	30.00	PASS
		1	0	16-QAM	21.01	3.12	24.13	1.00	30.00	PASS
		5	0		19.76	3.12	22.88	1.00	30.00	PASS

Radiated Power (EIRP) for CAT-M Band 4 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	21.59	3.12	24.71	1.00	30.00	PASS
		6	0		19.46	3.12	22.58	1.00	30.00	PASS
		1	0	16-QAM	20.44	3.12	23.56	1.00	30.00	PASS
		5	0		19.49	3.12	22.61	1.00	30.00	PASS
	Middle	1	0	QPSK	21.64	3.12	24.76	1.00	30.00	PASS
		6	0		19.41	3.12	22.53	1.00	30.00	PASS
		1	0	16-QAM	20.41	3.12	23.53	1.00	30.00	PASS
		5	0		19.43	3.12	22.55	1.00	30.00	PASS
	Highest	1	0	QPSK	21.53	3.12	24.65	1.00	30.00	PASS
		6	0		19.61	3.12	22.73	1.00	30.00	PASS
		1	0	16-QAM	20.58	3.12	23.70	1.00	30.00	PASS
		5	0		19.59	3.12	22.71	1.00	30.00	PASS

Radiated Power (EIRP) for CAT-M Band 4 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	21.47	3.12	24.59	1.00	30.00	PASS
		6	0		20.34	3.12	23.46	1.00	30.00	PASS
		1	0	16-QAM	21.53	3.12	24.65	1.00	30.00	PASS
		5	0		20.54	3.12	23.66	1.00	30.00	PASS
	Middle	1	0	QPSK	21.46	3.12	24.58	1.00	30.00	PASS
		6	0		20.39	3.12	23.51	1.00	30.00	PASS
		1	0	16-QAM	21.62	3.12	24.74	1.00	30.00	PASS
		5	0		20.5	3.12	23.62	1.00	30.00	PASS
	Highest	1	0	QPSK	21.52	3.12	24.64	1.00	30.00	PASS
		6	0		20.61	3.12	23.73	1.00	30.00	PASS
		1	0	16-QAM	21.61	3.12	24.73	1.00	30.00	PASS
		5	0		20.61	3.12	23.73	1.00	30.00	PASS