



RADIO TEST REPORT

Report No.: STS2207076W02

Issued for

Freecell

Efal 35, petah Tikvah, Israel

Product Name:	Electronic bracelet
Brand Name:	Freecell
Model Name:	Bracelet
Series Model:	N/A
FCC ID:	2A8J9-ADS1M1
Test Standard:	47 CFR Part 2, 22, 24(E), 27, 90

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**TEST RESULT CERTIFICATION**

Applicant's Name.....: Freecell
Address.....: Efal 35, petah Tikvah, Israel
Manufacturer's Name.....: Freecell
Address.....: Efal 35, petah Tikvah, Israel

Product Description

Product Name.....: Electronic bracelet
Brand Name.....: Freecell
Model Name.....: Bracelet
Series Model.....: N/A
Test Standards.....: 47 CFR Part 2, 22, 24(E), 27, 90
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.
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Date of Test.....:
Date of receipt of test item.....: 22 July 2022
Date (s) of performance of tests : 22 July 2022 ~ 29 July 2022
Date of Issue.....: 29 July 2022
Test Result.....: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	29 July 2022	STS2207076W02	ALL	Initial Issue





1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong 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	$\pm 0.87\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.895\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.09\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.92\text{dB}$
6	All emissions, radiated >6G	$\pm 5.49\text{dB}$
7	Conducted Emission (9KHz-30MHz)	$\pm 2.73\text{dB}$



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	Electronic bracelet
Trade Name	Freecell
Model Name	Bracelet
Series Model	N/A
Model Difference	N/A
Frequency Bands	U.S. Bands: CAT-M FDD Band 2 CAT-M FDD Band 4 CAT-M FDD Band 12 CAT-M FDD Band 13 CAT-M FDD Band 26
SIM Card	Only support single SIM Card.
Antenna	PIFA
Antenna gain	B2/B4: 0.4dBi, B12: 0.6dBi, B13: -3.3dBi, B26: -3.2dBi
Battery parameter	Rated Voltage: 3.6V Charge Limit Voltage: 4.2V Capacity: 4400mAh
Rating	Input: DC 5V
Extreme Vol. Limits	DC 3.3 V to 4.2 V (Nominal DC 3.6V)
Extreme Temp. Tolerance	-30℃ to +50℃
Hardware version number	1.0
Software version number	1.0

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sa-mple identified in the report.



2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	CAT-M Band 2:1850~1910MHz CAT-M Band 4:1710~1755MHz CAT-M Band 12:699~716MHz CAT-M Band 13:777~787MHz CAT-M Band 26:814~849MHz
Rx Frequency	CAT-M Band 2:1930 ~1990MHz CAT-M Band 4:2110~2155MHz CAT-M Band 12:729~746MHz CAT-M Band 13:746~756MHz CAT-M Band 26:859~894MHz
Maximum Output Power	CAT-M Band 2: 23.15 dBm CAT-M Band 4: 23.20 dBm CAT-M Band 12: 23.01 dBm CAT-M Band 13: 22.83 dBm CAT-M Band 26: 23.69 dBm
Type of Modulation	QPSK /16QAM



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
	12	v	v	v	v			v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v		v	
	26	v	v	v	v	v		v	v	v	v	v	v	v	v
E.R.P.& E.I.R.P.	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v			v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v		v	
	26	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
	12	v	v	v	v			v		v			v	v	v
	13			v	v			v		v				v	
	26	v	v	v	v	v		v		v			v	v	v

The module has been certified, The module FCC ID is N7NWP77B.

In this report, this certified module is same as the original filling. We have tested the new Radiated Power and Spurious Radiation.



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, 22, 24(E), 27, 90.

2.1.5 SPECIAL ACCESSORIES

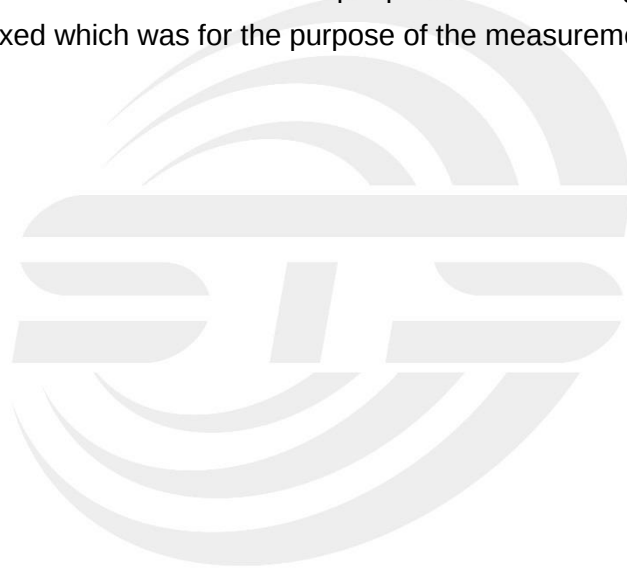
The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

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 CONFIGURATION OF EUT SYSTEM

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.

E-1
EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.1.9 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.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Signal Generator	Agilent	83752A	3610A02740	2021.09.30	2022.09.29
Wireless Communications Test Set	R&S	CMW 500	131428	2022.03.01	2023.02.28
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Bilog Antenna	TESEQ	CBL6111D	45873	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2020.10.12	2022.10.11
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	BULUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	111058	2021.09.29	2022.09.28
Wireless Communications Test Set	R&S	CMW 500	131428	2022.03.01	2023.02.28
Signal Analyzer	Agilent	N9020A	MY52440124	2022.03.01	2023.02.28
Temperature & Humidity test chamber	Safety test	AG80L	171200018	2022.03.01	2023.02.28
Programmable power supply	Agilent	E3642A	MY40002025	2021.10.08	2022.10.07
Temperature & Humidity	SW-108	SuWei	N/A	2022.03.02	2023.03.01
Test SW	FARAD	LZ-RF /LzRf-3A3			



2.1.10 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)

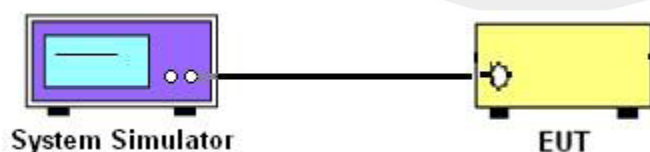
For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

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	22.78	0.4	23.18	2.00	33.01	PASS
		6	0		22.59	0.4	22.99	2.00	33.01	PASS
		1	0	16-QAM	22.47	0.4	22.87	2.00	33.01	PASS
		5	0		22.34	0.4	22.74	2.00	33.01	PASS
	Middle	1	0	QPSK	23.05	0.4	23.45	2.00	33.01	PASS
		6	0		22.93	0.4	23.33	2.00	33.01	PASS
		1	0	16-QAM	22.79	0.4	23.19	2.00	33.01	PASS
		5	0		22.69	0.4	23.09	2.00	33.01	PASS
	Highest	1	0	QPSK	22.65	0.4	23.05	2.00	33.01	PASS
		6	0		22.53	0.4	22.93	2.00	33.01	PASS
		1	0	16-QAM	22.46	0.4	22.86	2.00	33.01	PASS
		5	0		22.37	0.4	22.77	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	22.69	0.4	23.09	2.00	33.01	PASS
		6	0		22.65	0.4	23.05	2.00	33.01	PASS
		1	0	16-QAM	22.59	0.4	22.99	2.00	33.01	PASS
		5	0		22.42	0.4	22.82	2.00	33.01	PASS
	Middle	1	0	QPSK	22.91	0.4	23.31	2.00	33.01	PASS
		6	0		22.83	0.4	23.23	2.00	33.01	PASS
		1	0	16-QAM	22.71	0.4	23.11	2.00	33.01	PASS
		5	0		22.65	0.4	23.05	2.00	33.01	PASS
	Highest	1	0	QPSK	22.55	0.4	22.95	2.00	33.01	PASS
		6	0		22.49	0.4	22.89	2.00	33.01	PASS
		1	0	16-QAM	22.34	0.4	22.74	2.00	33.01	PASS
		5	0		22.21	0.4	22.61	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	22.92	0.4	23.32	2.00	33.01	PASS
		6	0		22.88	0.4	23.28	2.00	33.01	PASS
		1	0	16-QAM	22.68	0.4	23.08	2.00	33.01	PASS
		5	0		22.60	0.4	23.00	2.00	33.01	PASS
	Middle	1	0	QPSK	23.12	0.4	23.52	2.00	33.01	PASS
		6	0		23.11	0.4	23.51	2.00	33.01	PASS
		1	0	16-QAM	23.03	0.4	23.43	2.00	33.01	PASS
		5	0		22.95	0.4	23.35	2.00	33.01	PASS
	Highest	1	0	QPSK	23.04	0.4	23.44	2.00	33.01	PASS
		6	0		22.99	0.4	23.39	2.00	33.01	PASS
		1	0	16-QAM	22.85	0.4	23.25	2.00	33.01	PASS
		5	0		22.72	0.4	23.12	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	23.04	0.4	23.44	2.00	33.01	PASS
		6	0		23.03	0.4	23.43	2.00	33.01	PASS
		1	0	16-QAM	23.03	0.4	23.43	2.00	33.01	PASS
		5	0		22.86	0.4	23.26	2.00	33.01	PASS
	Middle	1	0	QPSK	22.56	0.4	22.96	2.00	33.01	PASS
		6	0		22.48	0.4	22.88	2.00	33.01	PASS
		1	0	16-QAM	22.33	0.4	22.73	2.00	33.01	PASS
		5	0		22.13	0.4	22.53	2.00	33.01	PASS
	Highest	1	0	QPSK	22.30	0.4	22.70	2.00	33.01	PASS
		6	0		22.13	0.4	22.53	2.00	33.01	PASS
		1	0	16-QAM	22.05	0.4	22.45	2.00	33.01	PASS
		5	0		21.95	0.4	22.35	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	22.71	0.4	23.11	2.00	33.01	PASS
		6	0		22.69	0.4	23.09	2.00	33.01	PASS
		1	0	16-QAM	22.64	0.4	23.04	2.00	33.01	PASS
		5	0		22.61	0.4	23.01	2.00	33.01	PASS
	Middle	1	0	QPSK	22.58	0.4	22.98	2.00	33.01	PASS
		6	0		22.49	0.4	22.89	2.00	33.01	PASS
		1	0	16-QAM	22.38	0.4	22.78	2.00	33.01	PASS
		5	0		22.24	0.4	22.64	2.00	33.01	PASS
	Highest	1	0	QPSK	22.59	0.4	22.99	2.00	33.01	PASS
		6	0		22.43	0.4	22.83	2.00	33.01	PASS
		1	0	16-QAM	22.43	0.4	22.83	2.00	33.01	PASS
		5	0		22.26	0.4	22.66	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	22.79	0.4	23.19	2.00	33.01	PASS
		6	0		22.60	0.4	23.00	2.00	33.01	PASS
		1	0	16-QAM	22.52	0.4	22.92	2.00	33.01	PASS
		5	0		22.32	0.4	22.72	2.00	33.01	PASS
	Middle	1	0	QPSK	22.70	0.4	23.10	2.00	33.01	PASS
		6	0		22.68	0.4	23.08	2.00	33.01	PASS
		1	0	16-QAM	22.66	0.4	23.06	2.00	33.01	PASS
		5	0		22.53	0.4	22.93	2.00	33.01	PASS
	Highest	1	0	QPSK	23.15	0.4	23.55	2.00	33.01	PASS
		6	0		22.96	0.4	23.36	2.00	33.01	PASS
		1	0	16-QAM	22.93	0.4	23.33	2.00	33.01	PASS
		5	0		22.90	0.4	23.30	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	22.48	0.4	22.88	1.00	30.00	PASS
		6	0		22.45	0.4	22.85	1.00	30.00	PASS
		1	0	16-QAM	22.43	0.4	22.83	1.00	30.00	PASS
		5	0		22.29	0.4	22.69	1.00	30.00	PASS
	Middle	1	0	QPSK	22.34	0.4	22.74	1.00	30.00	PASS
		6	0		22.20	0.4	22.60	1.00	30.00	PASS
		1	0	16-QAM	22.17	0.4	22.57	1.00	30.00	PASS
		5	0		22.02	0.4	22.42	1.00	30.00	PASS
	Highest	1	0	QPSK	22.19	0.4	22.59	1.00	30.00	PASS
		6	0		22.12	0.4	22.52	1.00	30.00	PASS
		1	0	16-QAM	22.01	0.4	22.41	1.00	30.00	PASS
		5	0		21.88	0.4	22.28	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	22.68	0.4	23.08	1.00	30.00	PASS
		6	0		22.59	0.4	22.99	1.00	30.00	PASS
		1	0	16-QAM	22.45	0.4	22.85	1.00	30.00	PASS
		5	0		22.27	0.4	22.67	1.00	30.00	PASS
	Middle	1	0	QPSK	22.56	0.4	22.96	1.00	30.00	PASS
		6	0		22.45	0.4	22.85	1.00	30.00	PASS
		1	0	16-QAM	22.30	0.4	22.70	1.00	30.00	PASS
		5	0		22.23	0.4	22.63	1.00	30.00	PASS
	Highest	1	0	QPSK	22.31	0.4	22.71	1.00	30.00	PASS
		6	0		22.22	0.4	22.62	1.00	30.00	PASS
		1	0	16-QAM	22.08	0.4	22.48	1.00	30.00	PASS
		5	0		21.92	0.4	22.32	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	22.95	0.4	23.35	1.00	30.00	PASS
		6	0		22.78	0.4	23.18	1.00	30.00	PASS
		1	0	16-QAM	22.61	0.4	23.01	1.00	30.00	PASS
		5	0		22.52	0.4	22.92	1.00	30.00	PASS
	Middle	1	0	QPSK	23.06	0.4	23.46	1.00	30.00	PASS
		6	0		23.06	0.4	23.46	1.00	30.00	PASS
		1	0	16-QAM	23.04	0.4	23.44	1.00	30.00	PASS
		5	0		23.01	0.4	23.41	1.00	30.00	PASS
	Highest	1	0	QPSK	23.19	0.4	23.59	1.00	30.00	PASS
		6	0		23.12	0.4	23.52	1.00	30.00	PASS
		1	0	16-QAM	23.00	0.4	23.40	1.00	30.00	PASS
		5	0		22.89	0.4	23.29	1.00	30.00	PASS



Radiated Power (EIRP) for CAT-M Band 4 /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	22.76	0.4	23.16	1.00	30.00	PASS
		6	0		22.74	0.4	23.14	1.00	30.00	PASS
		1	0	16-QAM	22.62	0.4	23.02	1.00	30.00	PASS
		5	0		22.62	0.4	23.02	1.00	30.00	PASS
	Middle	1	0	QPSK	22.93	0.4	23.33	1.00	30.00	PASS
		6	0		22.75	0.4	23.15	1.00	30.00	PASS
		1	0	16-QAM	22.61	0.4	23.01	1.00	30.00	PASS
		5	0		22.41	0.4	22.81	1.00	30.00	PASS
	Highest	1	0	QPSK	22.99	0.4	23.39	1.00	30.00	PASS
		6	0		22.85	0.4	23.25	1.00	30.00	PASS
		1	0	16-QAM	22.84	0.4	23.24	1.00	30.00	PASS
		5	0		22.67	0.4	23.07	1.00	30.00	PASS



Radiated Power (EIRP) for CAT-M Band 4 /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	22.83	0.4	23.23	1.00	30.00	PASS
		6	0		22.76	0.4	23.16	1.00	30.00	PASS
		1	0	16-QAM	22.56	0.4	22.96	1.00	30.00	PASS
		5	0		22.55	0.4	22.95	1.00	30.00	PASS
	Middle	1	0	QPSK	22.94	0.4	23.34	1.00	30.00	PASS
		6	0		22.80	0.4	23.20	1.00	30.00	PASS
		1	0	16-QAM	22.75	0.4	23.15	1.00	30.00	PASS
		5	0		22.70	0.4	23.10	1.00	30.00	PASS
	Highest	1	0	QPSK	22.82	0.4	23.22	1.00	30.00	PASS
		6	0		22.68	0.4	23.08	1.00	30.00	PASS
		1	0	16-QAM	22.62	0.4	23.02	1.00	30.00	PASS
		5	0		22.51	0.4	22.91	1.00	30.00	PASS



Radiated Power (EIRP) for CAT-M Band 4 /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	22.59	0.4	22.99	1.00	30.00	PASS
		6	0		22.53	0.4	22.93	1.00	30.00	PASS
		1	0	16-QAM	22.35	0.4	22.75	1.00	30.00	PASS
		5	0		22.30	0.4	22.70	1.00	30.00	PASS
	Middle	1	0	QPSK	23.20	0.4	23.60	1.00	30.00	PASS
		6	0		23.06	0.4	23.46	1.00	30.00	PASS
		1	0	16-QAM	23.00	0.4	23.40	1.00	30.00	PASS
		5	0		22.93	0.4	23.33	1.00	30.00	PASS
	Highest	1	0	QPSK	22.75	0.4	23.15	1.00	30.00	PASS
		6	0		22.64	0.4	23.04	1.00	30.00	PASS
		1	0	16-QAM	22.54	0.4	22.94	1.00	30.00	PASS
		5	0		22.50	0.4	22.90	1.00	30.00	PASS



Radiated Power (EIRP) for CAT-M Band 12 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	22.02	0.6	22.62	3.00	34.77	PASS
		6	0		21.91	0.6	22.51	3.00	34.77	PASS
		1	0	16-QAM	21.77	0.6	22.37	3.00	34.77	PASS
		5	0		21.72	0.6	22.32	3.00	34.77	PASS
	Middle	1	0	QPSK	22.43	0.6	23.03	3.00	34.77	PASS
		6	0		22.36	0.6	22.96	3.00	34.77	PASS
		1	0	16-QAM	22.36	0.6	22.96	3.00	34.77	PASS
		5	0		22.32	0.6	22.92	3.00	34.77	PASS
	Highest	1	0	QPSK	22.55	0.6	23.15	3.00	34.77	PASS
		6	0		22.45	0.6	23.05	3.00	34.77	PASS
		1	0	16-QAM	22.42	0.6	23.02	3.00	34.77	PASS
		5	0		22.31	0.6	22.91	3.00	34.77	PASS



Radiated Power (EIRP) for CAT-M Band 12 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	22.11	0.6	22.71	3.00	34.77	PASS
		6	0		21.94	0.6	22.54	3.00	34.77	PASS
		1	0	16-QAM	21.82	0.6	22.42	3.00	34.77	PASS
		5	0		21.73	0.6	22.33	3.00	34.77	PASS
	Middle	1	0	QPSK	22.62	0.6	23.22	3.00	34.77	PASS
		6	0		22.49	0.6	23.09	3.00	34.77	PASS
		1	0	16-QAM	22.43	0.6	23.03	3.00	34.77	PASS
		5	0		22.27	0.6	22.87	3.00	34.77	PASS
	Highest	1	0	QPSK	22.35	0.6	22.95	3.00	34.77	PASS
		6	0		22.23	0.6	22.83	3.00	34.77	PASS
		1	0	16-QAM	22.22	0.6	22.82	3.00	34.77	PASS
		5	0		22.11	0.6	22.71	3.00	34.77	PASS



Radiated Power (EIRP) for CAT-M Band 12 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.59	0.6	23.19	3.00	34.77	PASS
		6	0		22.44	0.6	23.04	3.00	34.77	PASS
		1	0	16-QAM	22.44	0.6	23.04	3.00	34.77	PASS
		5	0		22.27	0.6	22.87	3.00	34.77	PASS
	Middle	1	0	QPSK	22.86	0.6	23.46	3.00	34.77	PASS
		6	0		22.73	0.6	23.33	3.00	34.77	PASS
		1	0	16-QAM	22.59	0.6	23.19	3.00	34.77	PASS
		5	0		22.49	0.6	23.09	3.00	34.77	PASS
	Highest	1	0	QPSK	22.91	0.6	23.51	3.00	34.77	PASS
		6	0		22.87	0.6	23.47	3.00	34.77	PASS
		1	0	16-QAM	22.75	0.6	23.35	3.00	34.77	PASS
		5	0		22.66	0.6	23.26	3.00	34.77	PASS



Radiated Power (EIRP) for CAT-M Band 12 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	22.49	0.6	23.09	3.00	34.77	PASS
		6	0		22.37	0.6	22.97	3.00	34.77	PASS
		1	0	16-QAM	22.20	0.6	22.80	3.00	34.77	PASS
		5	0		22.20	0.6	22.80	3.00	34.77	PASS
	Middle	1	0	QPSK	22.85	0.6	23.45	3.00	34.77	PASS
		6	0		22.72	0.6	23.32	3.00	34.77	PASS
		1	0	16-QAM	22.59	0.6	23.19	3.00	34.77	PASS
		5	0		22.59	0.6	23.19	3.00	34.77	PASS
	Highest	1	0	QPSK	23.01	0.6	23.61	3.00	34.77	PASS
		6	0		22.92	0.6	23.52	3.00	34.77	PASS
		1	0	16-QAM	22.91	0.6	23.51	3.00	34.77	PASS
		5	0		22.83	0.6	23.43	3.00	34.77	PASS



Radiated Power (EIRP) for CAT-M Band 13 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.81	-3.3	19.51	3.00	34.77	PASS
		6	0		22.80	-3.3	19.50	3.00	34.77	PASS
		1	0	16-QAM	22.79	-3.3	19.49	3.00	34.77	PASS
		5	0		22.60	-3.3	19.30	3.00	34.77	PASS
	Middle	1	0	QPSK	22.77	-3.3	19.47	3.00	34.77	PASS
		6	0		22.77	-3.3	19.47	3.00	34.77	PASS
		1	0	16-QAM	22.71	-3.3	19.41	3.00	34.77	PASS
		5	0		22.65	-3.3	19.35	3.00	34.77	PASS
	Highest	1	0	QPSK	22.79	-3.3	19.49	3.00	34.77	PASS
		6	0		22.78	-3.3	19.48	3.00	34.77	PASS
		1	0	16-QAM	22.71	-3.3	19.41	3.00	34.77	PASS
		5	0		22.56	-3.3	19.26	3.00	34.77	PASS

Radiated Power (EIRP) for CAT-M Band 13 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Middle	1	0	QPSK	22.83	-3.3	19.53	3.00	34.77	PASS
		6	0		22.82	-3.3	19.52	3.00	34.77	PASS
		1	0	16-QAM	22.64	-3.3	19.34	3.00	34.77	PASS
		5	0		22.46	-3.3	19.16	3.00	34.77	PASS



Radiated Power (EIRP) for CAT-M Band 26 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	23.01	-3.2	19.81	7.00	38.45	PASS
		6	0		22.95	-3.2	19.75	7.00	38.45	PASS
		1	0	16-QAM	22.84	-3.2	19.64	7.00	38.45	PASS
		5	0		22.77	-3.2	19.57	7.00	38.45	PASS
	Middle	1	0	QPSK	23.35	-3.2	20.15	7.00	38.45	PASS
		6	0		23.25	-3.2	20.05	7.00	38.45	PASS
		1	0	16-QAM	23.17	-3.2	19.97	7.00	38.45	PASS
		5	0		23.14	-3.2	19.94	7.00	38.45	PASS
	Highest	1	0	QPSK	23.34	-3.2	20.14	7.00	38.45	PASS
		6	0		23.30	-3.2	20.10	7.00	38.45	PASS
		1	0	16-QAM	23.29	-3.2	20.09	7.00	38.45	PASS
		5	0		23.29	-3.2	20.09	7.00	38.45	PASS



Radiated Power (EIRP) for CAT-M Band 26 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	23.33	-3.2	20.13	7.00	38.45	PASS
		6	0		23.16	-3.2	19.96	7.00	38.45	PASS
		1	0	16-QAM	23.16	-3.2	19.96	7.00	38.45	PASS
		5	0		23.10	-3.2	19.90	7.00	38.45	PASS
	Middle	1	0	QPSK	23.55	-3.2	20.35	7.00	38.45	PASS
		6	0		23.37	-3.2	20.17	7.00	38.45	PASS
		1	0	16-QAM	23.31	-3.2	20.11	7.00	38.45	PASS
		5	0		23.17	-3.2	19.97	7.00	38.45	PASS
	Highest	1	0	QPSK	22.98	-3.2	19.78	7.00	38.45	PASS
		6	0		22.86	-3.2	19.66	7.00	38.45	PASS
		1	0	16-QAM	22.73	-3.2	19.53	7.00	38.45	PASS
		5	0		22.61	-3.2	19.41	7.00	38.45	PASS



Radiated Power (EIRP) for CAT-M Band 26 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	23.54	-3.2	20.34	7.00	38.45	PASS
		6	0		23.49	-3.2	20.29	7.00	38.45	PASS
		1	0	16-QAM	23.34	-3.2	20.14	7.00	38.45	PASS
		5	0		23.32	-3.2	20.12	7.00	38.45	PASS
	Middle	1	0	QPSK	23.44	-3.2	20.24	7.00	38.45	PASS
		6	0		23.41	-3.2	20.21	7.00	38.45	PASS
		1	0	16-QAM	23.40	-3.2	20.20	7.00	38.45	PASS
		5	0		23.34	-3.2	20.14	7.00	38.45	PASS
	Highest	1	0	QPSK	23.58	-3.2	20.38	7.00	38.45	PASS
		6	0		23.51	-3.2	20.31	7.00	38.45	PASS
		1	0	16-QAM	23.34	-3.2	20.14	7.00	38.45	PASS
		5	0		23.23	-3.2	20.03	7.00	38.45	PASS



Radiated Power (EIRP) for CAT-M Band 26 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	23.23	-3.2	20.03	7.00	38.45	PASS
		6	0		23.21	-3.2	20.01	7.00	38.45	PASS
		1	0	16-QAM	23.02	-3.2	19.82	7.00	38.45	PASS
		5	0		22.91	-3.2	19.71	7.00	38.45	PASS
	Middle	1	0	QPSK	23.02	-3.2	19.82	7.00	38.45	PASS
		6	0		22.86	-3.2	19.66	7.00	38.45	PASS
		1	0	16-QAM	22.77	-3.2	19.57	7.00	38.45	PASS
		5	0		22.60	-3.2	19.40	7.00	38.45	PASS
	Highest	1	0	QPSK	23.07	-3.2	19.87	7.00	38.45	PASS
		6	0		22.87	-3.2	19.67	7.00	38.45	PASS
		1	0	16-QAM	22.71	-3.2	19.51	7.00	38.45	PASS
		5	0		22.52	-3.2	19.32	7.00	38.45	PASS



Radiated Power (EIRP) for CAT-M Band 26 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	23.05	-3.2	19.85	7.00	38.45	PASS
		6	0		22.95	-3.2	19.75	7.00	38.45	PASS
		1	0	16-QAM	22.83	-3.2	19.63	7.00	38.45	PASS
		5	0		22.77	-3.2	19.57	7.00	38.45	PASS
	Middle	1	0	QPSK	23.40	-3.2	20.20	7.00	38.45	PASS
		6	0		23.28	-3.2	20.08	7.00	38.45	PASS
		1	0	16-QAM	23.14	-3.2	19.94	7.00	38.45	PASS
		5	0		22.98	-3.2	19.78	7.00	38.45	PASS
	Highest	1	0	QPSK	23.69	-3.2	20.49	7.00	38.45	PASS
		6	0		23.54	-3.2	20.34	7.00	38.45	PASS
		1	0	16-QAM	23.51	-3.2	20.31	7.00	38.45	PASS
		5	0		23.33	-3.2	20.13	7.00	38.45	PASS



Radiated Power (EIRP) for CAT-M Band 26 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	23.19	-3.2	19.99	100.00	50.00	PASS
		6	0		23.11	-3.2	19.91	100.00	50.00	PASS
		1	0	16-QAM	23.09	-3.2	19.89	100.00	50.00	PASS
		5	0		22.95	-3.2	19.75	100.00	50.00	PASS
	Middle	1	0	QPSK	23.40	-3.2	20.20	100.00	50.00	PASS
		6	0		23.20	-3.2	20.00	100.00	50.00	PASS
		1	0	16-QAM	23.15	-3.2	19.95	100.00	50.00	PASS
		5	0		23.05	-3.2	19.85	100.00	50.00	PASS
	Highest	1	0	QPSK	23.33	-3.2	20.13	100.00	50.00	PASS
		6	0		23.31	-3.2	20.11	100.00	50.00	PASS
		1	0	16-QAM	23.30	-3.2	20.10	100.00	50.00	PASS
		5	0		23.14	-3.2	19.94	100.00	50.00	PASS



Radiated Power (EIRP) for CAT-M Band 26 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	22.88	-3.2	19.68	100.00	50.00	PASS
		6	0		22.72	-3.2	19.52	100.00	50.00	PASS
		1	0	16-QAM	22.59	-3.2	19.39	100.00	50.00	PASS
		5	0		22.45	-3.2	19.25	100.00	50.00	PASS
	Middle	1	0	QPSK	23.40	-3.2	20.20	100.00	50.00	PASS
		6	0		23.25	-3.2	20.05	100.00	50.00	PASS
		1	0	16-QAM	23.05	-3.2	19.85	100.00	50.00	PASS
		5	0		22.95	-3.2	19.75	100.00	50.00	PASS
	Highest	1	0	QPSK	23.43	-3.2	20.23	100.00	50.00	PASS
		6	0		23.25	-3.2	20.05	100.00	50.00	PASS
		1	0	16-QAM	23.21	-3.2	20.01	100.00	50.00	PASS
		5	0		23.05	-3.2	19.85	100.00	50.00	PASS



Radiated Power (EIRP) for CAT-M Band 26 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	23.29	-3.2	20.09	100.00	50.00	PASS
		6	0		23.22	-3.2	20.02	100.00	50.00	PASS
		1	0	16-QAM	23.18	-3.2	19.98	100.00	50.00	PASS
		5	0		23.12	-3.2	19.92	100.00	50.00	PASS
	Middle	1	0	QPSK	23.55	-3.2	20.35	100.00	50.00	PASS
		6	0		23.48	-3.2	20.28	100.00	50.00	PASS
		1	0	16-QAM	23.37	-3.2	20.17	100.00	50.00	PASS
		5	0		23.34	-3.2	20.14	100.00	50.00	PASS
	Highest	1	0	QPSK	23.45	-3.2	20.25	100.00	50.00	PASS
		6	0		23.36	-3.2	20.16	100.00	50.00	PASS
		1	0	16-QAM	23.30	-3.2	20.10	100.00	50.00	PASS
		5	0		23.14	-3.2	19.94	100.00	50.00	PASS

Radiated Power (EIRP) for CAT-M Band 26 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Middle	1	0	QPSK	23.60	-3.2	20.40	100.00	50.00	PASS
		6	0		23.50	-3.2	20.30	100.00	50.00	PASS
		1	0	16-QAM	23.31	-3.2	20.11	100.00	50.00	PASS
		5	0		23.27	-3.2	20.07	100.00	50.00	PASS

4. RADIATED SPURIOUS EMISSION

4.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

4.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.

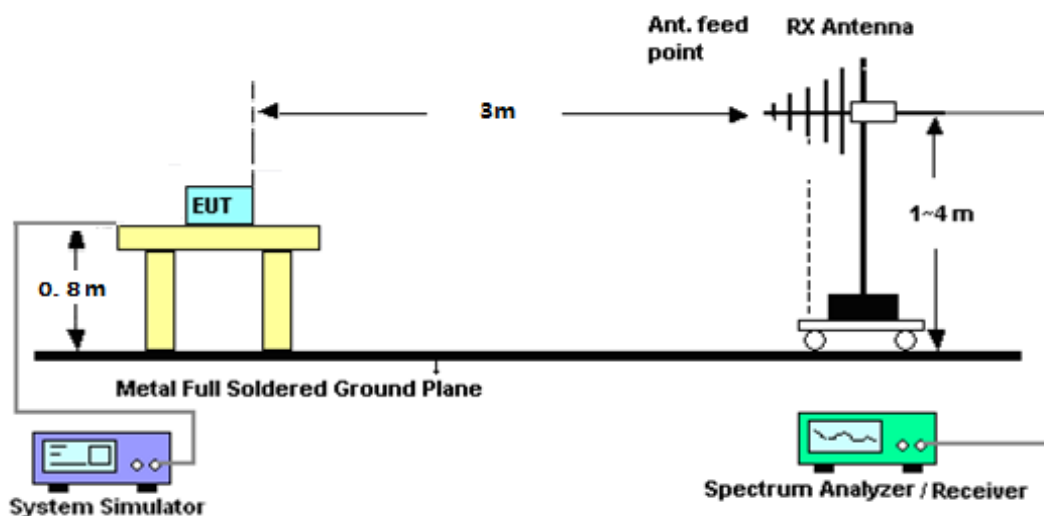
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

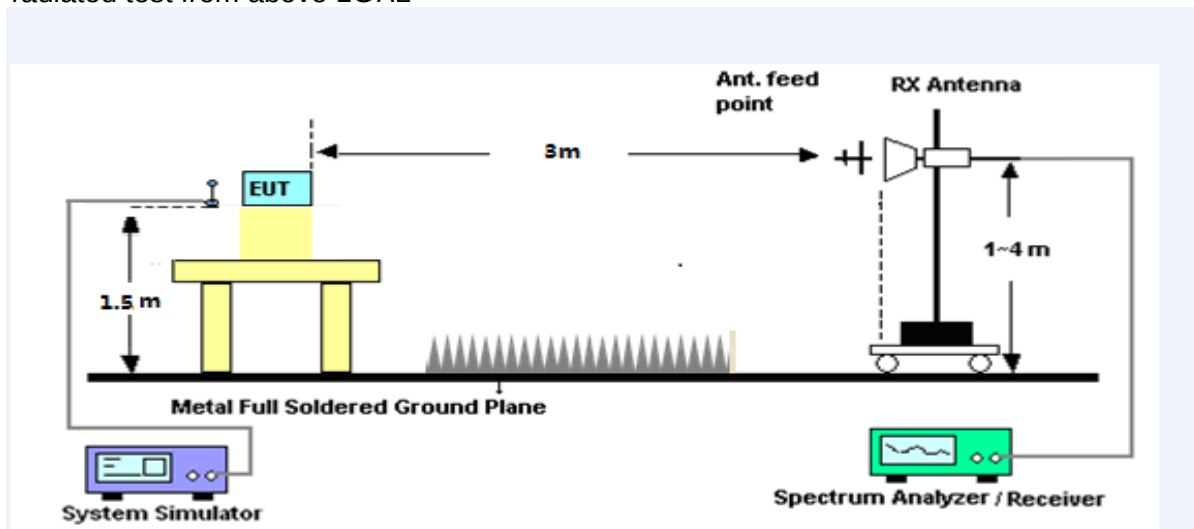
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

Power=PMea+ARpl

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



4.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$
 $= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$
 $= -13\text{dBm}$

For Band 7:

The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= [30 + 10\log(P)] (\text{dBm}) - [55 + 10\log(P)] (\text{dB})$
 $= -25\text{dBm}$

$P_{\text{Mea}} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{\text{Mea}} - \text{Limit}.$



4.1.4 TEST RESULTS

CAT-M Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.09	-33.72	12.60	12.93	-34.05	-13.00	-21.05	H
5552.08	-35.34	13.10	17.11	-39.35	-13.00	-26.35	H
7402.55	-32.77	11.50	22.20	-43.47	-13.00	-30.47	H
3701.09	-35.55	12.60	12.93	-35.88	-13.00	-22.88	V
5552.08	-34.45	13.10	17.11	-38.46	-13.00	-25.46	V
7402.55	-32.23	11.50	22.20	-42.93	-13.00	-29.93	V
CAT-M Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.93	-34.31	12.60	12.93	-34.64	-13.00	-21.64	H
5639.81	-34.42	13.10	17.11	-38.43	-13.00	-25.43	H
7520.16	-32.53	11.50	22.20	-43.23	-13.00	-30.23	H
3759.93	-34.78	12.60	12.93	-35.11	-13.00	-22.11	V
5639.81	-34.45	13.10	17.11	-38.46	-13.00	-25.46	V
7520.16	-32.50	11.50	22.20	-43.20	-13.00	-30.20	V
CAT-M Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.57	-34.61	12.60	12.93	-34.94	-13.00	-21.94	H
5727.56	-34.39	13.10	17.11	-38.40	-13.00	-25.40	H
7636.97	-32.31	11.50	22.20	-43.01	-13.00	-30.01	H
3818.57	-35.46	12.60	12.93	-35.79	-13.00	-22.79	V
5727.56	-34.43	13.10	17.11	-38.44	-13.00	-25.44	V
7636.97	-33.10	11.50	22.20	-43.80	-13.00	-30.80	V



CAT-M Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3703.45	-33.92	12.60	12.93	-34.25	-13.00	-21.25	H
5554.52	-34.53	13.10	17.11	-38.54	-13.00	-25.54	H
7406.90	-32.96	11.50	22.20	-43.66	-13.00	-30.66	H
3703.45	-35.47	12.60	12.93	-35.80	-13.00	-22.80	V
5554.52	-34.46	13.10	17.11	-38.47	-13.00	-25.47	V
7406.90	-32.37	11.50	22.20	-43.07	-13.00	-30.07	V
CAT-M Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.09	-33.71	12.60	12.93	-34.04	-13.00	-21.04	H
5639.90	-34.72	13.10	17.11	-38.73	-13.00	-25.73	H
7520.29	-32.80	11.50	22.20	-43.50	-13.00	-30.50	H
3760.09	-35.56	12.60	12.93	-35.89	-13.00	-22.89	V
5639.90	-34.92	13.10	17.11	-38.93	-13.00	-25.93	V
7520.29	-32.29	11.50	22.20	-42.99	-13.00	-29.99	V
CAT-M Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3816.68	-34.65	12.60	12.93	-34.98	-13.00	-21.98	H
5725.21	-35.25	13.10	17.11	-39.26	-13.00	-26.26	H
7633.27	-32.89	11.50	22.20	-43.59	-13.00	-30.59	H
3816.68	-34.71	12.60	12.93	-35.04	-13.00	-22.04	V
5725.21	-33.81	13.10	17.11	-37.82	-13.00	-24.82	V
7633.27	-32.14	11.50	22.20	-42.84	-13.00	-29.84	V



CAT-M Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3705.26	-34.92	12.60	12.93	-35.25	-13.00	-22.25	H
5557.78	-34.09	13.10	17.11	-38.10	-13.00	-25.10	H
7410.74	-33.28	11.50	22.20	-43.98	-13.00	-30.98	H
3705.26	-35.01	12.60	12.93	-35.34	-13.00	-22.34	V
5557.78	-34.10	13.10	17.11	-38.11	-13.00	-25.11	V
7410.74	-32.77	11.50	22.20	-43.47	-13.00	-30.47	V
CAT-M Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.03	-33.60	12.60	12.93	-33.93	-13.00	-20.93	H
5640.14	-34.38	13.10	17.11	-38.39	-13.00	-25.39	H
7520.23	-33.33	11.50	22.20	-44.03	-13.00	-31.03	H
3760.03	-35.78	12.60	12.93	-36.11	-13.00	-23.11	V
5640.14	-34.12	13.10	17.11	-38.13	-13.00	-25.13	V
7520.23	-31.89	11.50	22.20	-42.59	-13.00	-29.59	V
CAT-M Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3814.24	-34.12	12.60	12.93	-34.45	-13.00	-21.45	H
5721.58	-35.09	13.10	17.11	-39.10	-13.00	-26.10	H
7628.48	-32.72	11.50	22.20	-43.42	-13.00	-30.42	H
3814.24	-35.35	12.60	12.93	-35.68	-13.00	-22.68	V
5721.58	-34.60	13.10	17.11	-38.61	-13.00	-25.61	V
7628.48	-32.86	11.50	22.20	-43.56	-13.00	-30.56	V



CAT-M Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.52	-34.33	12.60	12.93	-34.66	-13.00	-21.66	H
5565.88	-34.31	13.10	17.11	-38.32	-13.00	-25.32	H
7420.87	-32.27	11.50	22.20	-42.97	-13.00	-29.97	H
3710.52	-35.56	12.60	12.93	-35.89	-13.00	-22.89	V
5565.88	-34.33	13.10	17.11	-38.34	-13.00	-25.34	V
7420.87	-32.08	11.50	22.20	-42.78	-13.00	-29.78	V
CAT-M Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.18	-34.88	12.60	12.93	-35.21	-13.00	-22.21	H
5639.86	-34.57	13.10	17.11	-38.58	-13.00	-25.58	H
7519.91	-32.39	11.50	22.20	-43.09	-13.00	-30.09	H
3760.18	-35.54	12.60	12.93	-35.87	-13.00	-22.87	V
5639.86	-34.73	13.10	17.11	-38.74	-13.00	-25.74	V
7519.91	-33.07	11.50	22.20	-43.77	-13.00	-30.77	V
CAT-M Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3809.09	-34.40	12.60	12.93	-34.73	-13.00	-21.73	H
5713.99	-34.04	13.10	17.11	-38.05	-13.00	-25.05	H
7618.05	-33.44	11.50	22.20	-44.14	-13.00	-31.14	H
3809.09	-35.22	12.60	12.93	-35.55	-13.00	-22.55	V
5713.99	-34.31	13.10	17.11	-38.32	-13.00	-25.32	V
7618.05	-32.76	11.50	22.20	-43.46	-13.00	-30.46	V



CAT-M Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3716.18	-34.12	12.60	12.93	-34.45	-13.00	-21.45	H
5574.19	-35.29	13.10	17.11	-39.30	-13.00	-26.30	H
7618.58	-32.81	11.50	22.20	-43.51	-13.00	-30.51	H
3716.18	-34.99	12.60	12.93	-35.32	-13.00	-22.32	V
5574.19	-34.81	13.10	17.11	-38.82	-13.00	-25.82	V
7618.58	-33.17	11.50	22.20	-43.87	-13.00	-30.87	V
CAT-M Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.90	-34.28	12.60	12.93	-34.61	-13.00	-21.61	H
5640.12	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7520.19	-32.24	11.50	22.20	-42.94	-13.00	-29.94	H
3759.90	-34.95	12.60	12.93	-35.28	-13.00	-22.28	V
5640.12	-33.90	13.10	17.11	-37.91	-13.00	-24.91	V
7520.19	-32.74	11.50	22.20	-43.44	-13.00	-30.44	V
CAT-M Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3803.37	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5705.62	-34.79	13.10	17.11	-38.80	-13.00	-25.80	H
7607.28	-32.32	11.50	22.20	-43.02	-13.00	-30.02	H
3803.37	-35.36	12.60	12.93	-35.69	-13.00	-22.69	V
5705.62	-34.50	13.10	17.11	-38.51	-13.00	-25.51	V
7607.28	-32.45	11.50	22.20	-43.15	-13.00	-30.15	V



CAT-M Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3721.47	-33.93	12.60	12.93	-34.26	-13.00	-21.26	H
5581.28	-34.75	13.10	17.11	-38.76	-13.00	-25.76	H
7441.95	-33.55	11.50	22.20	-44.25	-13.00	-31.25	H
3721.47	-34.65	12.60	12.93	-34.98	-13.00	-21.98	V
5581.28	-34.68	13.10	17.11	-38.69	-13.00	-25.69	V
7441.95	-32.34	11.50	22.20	-43.04	-13.00	-30.04	V
CAT-M Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.94	-34.28	12.60	12.93	-34.61	-13.00	-21.61	H
5640.13	-34.15	13.10	17.11	-38.16	-13.00	-25.16	H
7519.89	-33.19	11.50	22.20	-43.89	-13.00	-30.89	H
3759.94	-34.57	12.60	12.93	-34.90	-13.00	-21.90	V
5640.13	-34.40	13.10	17.11	-38.41	-13.00	-25.41	V
7519.89	-32.30	11.50	22.20	-43.00	-13.00	-30.00	V
CAT-M Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3798.17	-34.14	12.60	12.93	-34.47	-13.00	-21.47	H
5697.19	-34.81	13.10	17.11	-38.82	-13.00	-25.82	H
7596.81	-32.67	11.50	22.20	-43.37	-13.00	-30.37	H
3798.17	-35.17	12.60	12.93	-35.50	-13.00	-22.50	V
5697.19	-34.06	13.10	17.11	-38.07	-13.00	-25.07	V
7596.81	-31.77	11.50	22.20	-42.47	-13.00	-29.47	V



CAT-M Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3421.43	-33.52	12.90	12.56	-33.18	-13.00	-20.18	H
5131.84	-34.15	13.10	16.32	-37.37	-13.00	-24.37	H
6842.80	-33.09	12.33	21.13	-41.89	-13.00	-28.89	H
3421.43	-34.63	12.90	12.56	-34.29	-13.00	-21.29	V
5131.84	-34.94	13.10	16.32	-38.16	-13.00	-25.16	V
6842.80	-32.54	12.33	21.13	-41.34	-13.00	-28.34	V
CAT-M Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.94	-34.76	12.90	12.56	-34.42	-13.00	-21.42	H
5197.21	-35.24	13.10	16.32	-38.46	-13.00	-25.46	H
6930.12	-32.63	12.33	21.13	-41.43	-13.00	-28.43	H
3464.94	-34.63	12.90	12.56	-34.29	-13.00	-21.29	V
5197.21	-34.52	13.10	16.32	-37.74	-13.00	-24.74	V
6930.12	-32.64	12.33	21.13	-41.44	-13.00	-28.44	V
CAT-M Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3508.43	-33.79	12.90	12.56	-33.45	-13.00	-20.45	H
5262.62	-35.24	13.10	16.32	-38.46	-13.00	-25.46	H
7015.81	-33.13	12.33	21.13	-41.93	-13.00	-28.93	H
3508.43	-34.70	12.90	12.56	-34.36	-13.00	-21.36	V
5262.62	-34.81	13.10	16.32	-38.03	-13.00	-25.03	V
7015.81	-32.09	12.33	21.13	-40.89	-13.00	-27.89	V



CAT-M Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3424.42	-34.46	12.90	12.56	-34.12	-13.00	-21.12	H
5136.35	-35.42	13.10	16.32	-38.64	-13.00	-25.64	H
6848.85	-33.61	12.33	21.13	-42.41	-13.00	-29.41	H
3424.42	-34.88	12.90	12.56	-34.54	-13.00	-21.54	V
5136.35	-33.91	13.10	16.32	-37.13	-13.00	-24.13	V
6848.85	-31.77	12.33	21.13	-40.57	-13.00	-27.57	V
CAT-M Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.16	-34.62	12.90	12.56	-34.28	-13.00	-21.28	H
5196.99	-33.99	13.10	16.32	-37.21	-13.00	-24.21	H
6929.99	-33.62	12.33	21.13	-42.42	-13.00	-29.42	H
3465.16	-35.43	12.90	12.56	-35.09	-13.00	-22.09	V
5196.99	-33.80	13.10	16.32	-37.02	-13.00	-24.02	V
6929.99	-31.98	12.33	21.13	-40.78	-13.00	-27.78	V
CAT-M Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3506.67	-34.48	12.90	12.56	-34.14	-13.00	-21.14	H
5262.04	-34.17	13.10	16.32	-37.39	-13.00	-24.39	H
7013.14	-33.22	12.33	21.13	-42.02	-13.00	-29.02	H
3506.67	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5262.04	-34.13	13.10	16.32	-37.35	-13.00	-24.35	V
7013.14	-33.11	12.33	21.13	-41.91	-13.00	-28.91	V



CAT-M Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3425.13	-33.44	12.90	12.56	-33.10	-13.00	-20.10	H
5137.36	-33.99	13.10	16.32	-37.21	-13.00	-24.21	H
6850.34	-33.25	12.33	21.13	-42.05	-13.00	-29.05	H
3425.13	-35.71	12.90	12.56	-35.37	-13.00	-22.37	V
5137.36	-34.38	13.10	16.32	-37.60	-13.00	-24.60	V
6850.34	-33.18	12.33	21.13	-41.98	-13.00	-28.98	V
CAT-M Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.95	-34.57	12.90	12.56	-34.23	-13.00	-21.23	H
5197.06	-35.22	13.10	16.32	-38.44	-13.00	-25.44	H
6930.23	-32.61	12.33	21.13	-41.41	-13.00	-28.41	H
3464.95	-34.53	12.90	12.56	-34.19	-13.00	-21.19	V
5197.06	-34.37	13.10	16.32	-37.59	-13.00	-24.59	V
6930.23	-31.91	12.33	21.13	-40.71	-13.00	-27.71	V
CAT-M Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3505.59	-34.08	12.90	12.56	-33.74	-13.00	-20.74	H
5257.12	-34.66	13.10	16.32	-37.88	-13.00	-24.88	H
7010.11	-33.10	12.33	21.13	-41.90	-13.00	-28.90	H
3505.59	-35.79	12.90	12.56	-35.45	-13.00	-22.45	V
5257.12	-35.02	13.10	16.32	-38.24	-13.00	-25.24	V
7010.11	-33.14	12.33	21.13	-41.94	-13.00	-28.94	V



CAT-M Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3430.18	-33.97	12.90	12.56	-33.63	-13.00	-20.63	H
5145.46	-34.54	13.10	16.32	-37.76	-13.00	-24.76	H
6860.51	-32.35	12.33	21.13	-41.15	-13.00	-28.15	H
3430.18	-35.14	12.90	12.56	-34.80	-13.00	-21.80	V
5145.46	-35.23	13.10	16.32	-38.45	-13.00	-25.45	V
6860.51	-32.63	12.33	21.13	-41.43	-13.00	-28.43	V
CAT-M Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.25	-34.78	12.90	12.56	-34.44	-13.00	-21.44	H
5196.83	-34.22	13.10	16.32	-37.44	-13.00	-24.44	H
6930.28	-32.66	12.33	21.13	-41.46	-13.00	-28.46	H
3465.25	-35.31	12.90	12.56	-34.97	-13.00	-21.97	V
5196.83	-35.09	13.10	16.32	-38.31	-13.00	-25.31	V
6930.28	-33.12	12.33	21.13	-41.92	-13.00	-28.92	V
CAT-M Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3500.81	-34.79	12.90	12.56	-34.45	-13.00	-21.45	H
5250.37	-33.99	13.10	16.32	-37.21	-13.00	-24.21	H
6999.97	-32.33	12.33	21.13	-41.13	-13.00	-28.13	H
3500.81	-34.54	12.90	12.56	-34.20	-13.00	-21.20	V
5250.37	-33.78	13.10	16.32	-37.00	-13.00	-24.00	V
6999.97	-32.48	12.33	21.13	-41.28	-13.00	-28.28	V



CAT-M Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3435.44	-34.09	12.90	12.56	-33.75	-13.00	-20.75	H
5152.53	-34.71	13.10	16.32	-37.93	-13.00	-24.93	H
6870.73	-32.89	12.33	21.13	-41.69	-13.00	-28.69	H
3435.44	-34.92	12.90	12.56	-34.58	-13.00	-21.58	V
5152.53	-34.08	13.10	16.32	-37.30	-13.00	-24.30	V
6870.73	-32.07	12.33	21.13	-40.87	-13.00	-27.87	V
CAT-M Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.06	-33.59	12.90	12.56	-33.25	-13.00	-20.25	H
5196.92	-34.21	13.10	16.32	-37.43	-13.00	-24.43	H
6930.04	-32.92	12.33	21.13	-41.72	-13.00	-28.72	H
3465.06	-34.56	12.90	12.56	-34.22	-13.00	-21.22	V
5196.92	-35.20	13.10	16.32	-38.42	-13.00	-25.42	V
6930.04	-32.34	12.33	21.13	-41.14	-13.00	-28.14	V
CAT-M Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3495.43	-33.52	12.90	12.56	-33.18	-13.00	-20.18	H
5242.05	-34.77	13.10	16.32	-37.99	-13.00	-24.99	H
6990.47	-33.17	12.33	21.13	-41.97	-13.00	-28.97	H
3495.43	-35.62	12.90	12.56	-35.28	-13.00	-22.28	V
5242.05	-33.79	13.10	16.32	-37.01	-13.00	-24.01	V
6990.47	-32.41	12.33	21.13	-41.21	-13.00	-28.21	V



CAT-M Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.05	-34.28	12.90	12.56	-33.94	-13.00	-20.94	H
5160.64	-34.78	13.10	16.32	-38.00	-13.00	-25.00	H
6880.90	-33.64	12.33	21.13	-42.44	-13.00	-29.44	H
3440.05	-35.21	12.90	12.56	-34.87	-13.00	-21.87	V
5160.64	-34.24	13.10	16.32	-37.46	-13.00	-24.46	V
6880.90	-33.20	12.33	21.13	-42.00	-13.00	-29.00	V
CAT-M Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.83	-33.57	12.90	12.56	-33.23	-13.00	-20.23	H
5196.85	-34.87	13.10	16.32	-38.09	-13.00	-25.09	H
6930.25	-33.22	12.33	21.13	-42.02	-13.00	-29.02	H
3464.83	-35.47	12.90	12.56	-35.13	-13.00	-22.13	V
5196.85	-35.03	13.10	16.32	-38.25	-13.00	-25.25	V
6930.25	-32.82	12.33	21.13	-41.62	-13.00	-28.62	V
CAT-M Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.63	-34.19	12.90	12.56	-33.85	-13.00	-20.85	H
5235.07	-34.77	13.10	16.32	-37.99	-13.00	-24.99	H
6980.05	-33.08	12.33	21.13	-41.88	-13.00	-28.88	H
3490.63	-35.88	12.90	12.56	-35.54	-13.00	-22.54	V
5235.07	-35.24	13.10	16.32	-38.46	-13.00	-25.46	V
6980.05	-32.85	12.33	21.13	-41.65	-13.00	-28.65	V



CAT-M Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1398.91	-34.62	8.17	9.34	-35.79	-13.00	-22.79	H
2099.04	-34.94	9.53	10.42	-35.83	-13.00	-22.83	H
2798.42	-32.96	11.27	11.12	-32.81	-13.00	-19.81	H
1398.91	-35.25	8.17	9.34	-36.42	-13.00	-23.42	V
2099.04	-34.67	9.53	10.42	-35.56	-13.00	-22.56	V
2798.42	-33.16	11.27	11.12	-33.01	-13.00	-20.01	V
CAT-M Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.62	-33.60	8.17	9.34	-34.77	-13.00	-21.77	H
2122.10	-34.64	9.53	10.42	-35.53	-13.00	-22.53	H
2829.70	-32.94	11.27	11.12	-32.79	-13.00	-19.79	H
1414.62	-35.08	8.17	9.34	-36.25	-13.00	-23.25	V
2122.10	-34.78	9.53	10.42	-35.67	-13.00	-22.67	V
2829.70	-33.02	11.27	11.12	-32.87	-13.00	-19.87	V
CAT-M Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1430.14	-33.72	8.17	9.34	-34.89	-13.00	-21.89	H
2145.57	-34.06	9.53	10.42	-34.95	-13.00	-21.95	H
2860.99	-32.88	11.27	11.12	-32.73	-13.00	-19.73	H
1430.14	-35.81	8.17	9.34	-36.98	-13.00	-23.98	V
2145.57	-34.83	9.53	10.42	-35.72	-13.00	-22.72	V
2860.99	-32.74	11.27	11.12	-32.59	-13.00	-19.59	V



CAT-M Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1400.82	-34.62	8.17	9.34	-35.79	-13.00	-22.79	H
2101.16	-34.94	9.53	10.42	-35.83	-13.00	-22.83	H
2801.52	-33.52	11.27	11.12	-33.37	-13.00	-20.37	H
1400.82	-35.91	8.17	9.34	-37.08	-13.00	-24.08	V
2101.16	-34.31	9.53	10.42	-35.20	-13.00	-22.20	V
2801.52	-32.73	11.27	11.12	-32.58	-13.00	-19.58	V
CAT-M Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.56	-34.00	8.17	9.34	-35.17	-13.00	-22.17	H
2122.33	-35.39	9.53	10.42	-36.28	-13.00	-23.28	H
2829.80	-32.50	11.27	11.12	-32.35	-13.00	-19.35	H
1414.56	-35.51	8.17	9.34	-36.68	-13.00	-23.68	V
2122.33	-33.76	9.53	10.42	-34.65	-13.00	-21.65	V
2829.80	-32.88	11.27	11.12	-32.73	-13.00	-19.73	V
CAT-M Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1428.94	-34.62	8.17	9.34	-35.79	-13.00	-22.79	H
2143.05	-34.61	9.53	10.42	-35.50	-13.00	-22.50	H
2857.85	-32.62	11.27	11.12	-32.47	-13.00	-19.47	H
1428.94	-34.55	8.17	9.34	-35.72	-13.00	-22.72	V
2143.05	-34.15	9.53	10.42	-35.04	-13.00	-22.04	V
2857.85	-33.04	11.27	11.12	-32.89	-13.00	-19.89	V



CAT-M Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1402.81	-33.81	8.17	9.34	-34.98	-13.00	-21.98	H
2104.19	-34.48	9.53	10.42	-35.37	-13.00	-22.37	H
2805.89	-32.16	11.27	11.12	-32.01	-13.00	-19.01	H
1402.81	-34.71	8.17	9.34	-35.88	-13.00	-22.88	V
2104.19	-34.63	9.53	10.42	-35.52	-13.00	-22.52	V
2805.89	-32.43	11.27	11.12	-32.28	-13.00	-19.28	V
CAT-M Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.76	-33.88	8.17	9.34	-35.05	-13.00	-22.05	H
2122.31	-35.17	9.53	10.42	-36.06	-13.00	-23.06	H
2829.64	-32.19	11.27	11.12	-32.04	-13.00	-19.04	H
1414.76	-34.67	8.17	9.34	-35.84	-13.00	-22.84	V
2122.31	-34.22	9.53	10.42	-35.11	-13.00	-22.11	V
2829.64	-33.01	11.27	11.12	-32.86	-13.00	-19.86	V
CAT-M Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.87	-33.99	8.17	9.34	-35.16	-13.00	-22.16	H
2140.12	-34.97	9.53	10.42	-35.86	-13.00	-22.86	H
2853.88	-32.67	11.27	11.12	-32.52	-13.00	-19.52	H
1426.87	-35.08	8.17	9.34	-36.25	-13.00	-23.25	V
2140.12	-34.48	9.53	10.42	-35.37	-13.00	-22.37	V
2853.88	-32.13	11.27	11.12	-31.98	-13.00	-18.98	V



CAT-M Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1407.73	-34.15	8.17	9.34	-35.32	-13.00	-22.32	H
2111.92	-34.88	9.53	10.42	-35.77	-13.00	-22.77	H
2815.51	-33.32	11.27	11.12	-33.17	-13.00	-20.17	H
1407.73	-35.20	8.17	9.34	-36.37	-13.00	-23.37	V
2111.92	-35.12	9.53	10.42	-36.01	-13.00	-23.01	V
2815.51	-32.93	11.27	11.12	-32.78	-13.00	-19.78	V
CAT-M Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.56	-34.92	8.17	9.34	-36.09	-13.00	-23.09	H
2122.19	-35.31	9.53	10.42	-36.20	-13.00	-23.20	H
2829.55	-33.49	11.27	11.12	-33.34	-13.00	-20.34	H
1414.56	-35.79	8.17	9.34	-36.96	-13.00	-23.96	V
2122.19	-35.03	9.53	10.42	-35.92	-13.00	-22.92	V
2829.55	-32.63	11.27	11.12	-32.48	-13.00	-19.48	V
CAT-M Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1421.90	-34.80	8.17	9.34	-35.97	-13.00	-22.97	H
2132.83	-34.60	9.53	10.42	-35.49	-13.00	-22.49	H
2843.80	-32.60	11.27	11.12	-32.45	-13.00	-19.45	H
1421.90	-34.83	8.17	9.34	-36.00	-13.00	-23.00	V
2132.83	-33.94	9.53	10.42	-34.83	-13.00	-21.83	V
2843.80	-32.09	11.27	11.12	-31.94	-13.00	-18.94	V



CAT-M Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1559.23	-48.76	8.17	9.34	-49.93	-40.00	-9.93	H
2338.39	-46.40	9.53	10.42	-47.29	-13.00	-34.29	H
3117.89	-46.07	11.27	11.12	-45.92	-13.00	-32.92	H
1559.23	-47.80	8.17	9.34	-48.97	-40.00	-8.97	V
2338.39	-47.41	9.53	10.42	-48.30	-13.00	-35.30	V
3117.89	-45.63	11.27	11.12	-45.48	-13.00	-32.48	V
CAT-M Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1564.16	-47.47	8.17	9.34	-48.64	-40.00	-8.64	H
2345.65	-46.75	9.53	10.42	-47.64	-13.00	-34.64	H
3128.12	-46.07	11.27	11.12	-45.92	-13.00	-32.92	H
1564.16	-47.74	8.17	9.34	-48.91	-40.00	-8.91	V
2345.65	-47.42	9.53	10.42	-48.31	-13.00	-35.31	V
3128.12	-46.09	11.27	11.12	-45.94	-13.00	-32.94	V
CAT-M Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1569.14	-48.05	8.17	9.34	-49.22	-40.00	-9.22	H
2353.19	-46.85	9.53	10.42	-47.74	-13.00	-34.74	H
3138.27	-45.86	11.27	11.12	-45.71	-13.00	-32.71	H
1569.14	-48.23	8.17	9.34	-49.40	-40.00	-9.40	V
2353.19	-46.00	9.53	10.42	-46.89	-13.00	-33.89	V
3138.27	-45.49	11.27	11.12	-45.34	-13.00	-32.34	V
CAT-M Band 13 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1564.12	-48.72	8.17	9.34	-49.89	-40.00	-9.89	H
2345.93	-46.65	9.53	10.42	-47.54	-13.00	-34.54	H
3128.01	-45.54	11.27	11.12	-45.39	-13.00	-32.39	H
1564.12	-47.71	8.17	9.34	-48.88	-40.00	-8.88	V
2345.93	-46.63	9.53	10.42	-47.52	-13.00	-34.52	V
3128.01	-46.28	11.27	11.12	-46.13	-13.00	-33.13	V



CAT-M Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1649.41	-33.51	9.56	9.72	-33.67	-13.00	-20.67	H
2473.54	-35.38	10.50	10.86	-35.74	-13.00	-22.74	H
3298.46	-33.43	12.78	11.57	-32.22	-13.00	-19.22	H
1649.41	-35.30	9.56	9.72	-35.46	-13.00	-22.46	V
2473.54	-35.00	10.50	10.86	-35.36	-13.00	-22.36	V
3298.46	-32.96	12.78	11.57	-31.75	-13.00	-18.75	V
CAT-M Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.25	-33.69	9.56	9.72	-33.85	-13.00	-20.85	H
2509.04	-34.46	10.50	10.86	-34.82	-13.00	-21.82	H
3346.21	-33.25	12.78	11.57	-32.04	-13.00	-19.04	H
1673.25	-35.25	9.56	9.72	-35.41	-13.00	-22.41	V
2509.04	-34.07	10.50	10.86	-34.43	-13.00	-21.43	V
3346.21	-32.43	12.78	11.57	-31.22	-13.00	-18.22	V
CAT-M Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.57	-33.75	9.56	9.72	-33.91	-13.00	-20.91	H
2544.68	-34.88	10.50	10.86	-35.24	-13.00	-22.24	H
3393.00	-32.30	12.78	11.57	-31.09	-13.00	-18.09	H
1696.57	-35.95	9.56	9.72	-36.11	-13.00	-23.11	V
2544.68	-33.82	10.50	10.86	-34.18	-13.00	-21.18	V
3393.00	-32.68	12.78	11.57	-31.47	-13.00	-18.47	V



CAT-M Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1651.25	-34.14	9.56	9.72	-34.30	-13.00	-21.30	H
2476.39	-34.33	10.50	10.86	-34.69	-13.00	-21.69	H
3301.64	-32.21	12.78	11.57	-31.00	-13.00	-18.00	H
1651.25	-35.63	9.56	9.72	-35.79	-13.00	-22.79	V
2476.39	-34.44	10.50	10.86	-34.80	-13.00	-21.80	V
3301.64	-32.30	12.78	11.57	-31.09	-13.00	-18.09	V
CAT-M Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.18	-34.29	9.56	9.72	-34.45	-13.00	-21.45	H
2509.04	-35.42	10.50	10.86	-35.78	-13.00	-22.78	H
3345.84	-32.28	12.78	11.57	-31.07	-13.00	-18.07	H
1673.18	-34.91	9.56	9.72	-35.07	-13.00	-22.07	V
2509.04	-33.93	10.50	10.86	-34.29	-13.00	-21.29	V
3345.84	-33.10	12.78	11.57	-31.89	-13.00	-18.89	V
CAT-M Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1695.39	-34.38	9.56	9.72	-34.54	-13.00	-21.54	H
2542.18	-34.21	10.50	10.86	-34.57	-13.00	-21.57	H
3389.95	-33.39	12.78	11.57	-32.18	-13.00	-19.18	H
1695.39	-35.89	9.56	9.72	-36.05	-13.00	-23.05	V
2542.18	-34.88	10.50	10.86	-35.24	-13.00	-22.24	V
3389.95	-32.41	12.78	11.57	-31.20	-13.00	-18.20	V



CAT-M Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.74	-33.46	9.56	9.72	-33.62	-13.00	-20.62	H
2479.36	-35.36	10.50	10.86	-35.72	-13.00	-22.72	H
3306.83	-33.36	12.78	11.57	-32.15	-13.00	-19.15	H
1652.74	-35.32	9.56	9.72	-35.48	-13.00	-22.48	V
2479.36	-33.77	10.50	10.86	-34.13	-13.00	-21.13	V
3306.83	-32.72	12.78	11.57	-31.51	-13.00	-18.51	V
CAT-M Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.07	-34.28	9.56	9.72	-34.44	-13.00	-21.44	H
2508.81	-34.95	10.50	10.86	-35.31	-13.00	-22.31	H
3345.81	-32.41	12.78	11.57	-31.20	-13.00	-18.20	H
1673.07	-35.60	9.56	9.72	-35.76	-13.00	-22.76	V
2508.81	-35.02	10.50	10.86	-35.38	-13.00	-22.38	V
3345.81	-32.46	12.78	11.57	-31.25	-13.00	-18.25	V
CAT-M Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.47	-34.09	9.56	9.72	-34.25	-13.00	-21.25	H
2539.50	-34.93	10.50	10.86	-35.29	-13.00	-22.29	H
3386.13	-33.03	12.78	11.57	-31.82	-13.00	-18.82	H
1693.47	-35.49	9.56	9.72	-35.65	-13.00	-22.65	V
2539.50	-34.81	10.50	10.86	-35.17	-13.00	-22.17	V
3386.13	-32.09	12.78	11.57	-30.88	-13.00	-17.88	V



CAT-M Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.89	-34.26	9.56	9.72	-34.42	-13.00	-21.42	H
2486.20	-34.76	10.50	10.86	-35.12	-13.00	-22.12	H
3315.75	-33.02	12.78	11.57	-31.81	-13.00	-18.81	H
1657.89	-35.87	9.56	9.72	-36.03	-13.00	-23.03	V
2486.20	-35.10	10.50	10.86	-35.46	-13.00	-22.46	V
3315.75	-32.22	12.78	11.57	-31.01	-13.00	-18.01	V
CAT-M Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.82	-34.38	9.56	9.72	-34.54	-13.00	-21.54	H
2509.22	-35.33	10.50	10.86	-35.69	-13.00	-22.69	H
3346.14	-33.28	12.78	11.57	-32.07	-13.00	-19.07	H
1672.82	-34.72	9.56	9.72	-34.88	-13.00	-21.88	V
2509.22	-34.23	10.50	10.86	-34.59	-13.00	-21.59	V
3346.14	-32.13	12.78	11.57	-30.92	-13.00	-17.92	V
CAT-M Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1688.49	-34.76	9.56	9.72	-34.92	-13.00	-21.92	H
2532.29	-35.41	10.50	10.86	-35.77	-13.00	-22.77	H
3376.31	-32.23	12.78	11.57	-31.02	-13.00	-18.02	H
1688.49	-34.81	9.56	9.72	-34.97	-13.00	-21.97	V
2532.29	-34.50	10.50	10.86	-34.86	-13.00	-21.86	V
3376.31	-32.77	12.78	11.57	-31.56	-13.00	-18.56	V



CAT-M Band 26 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1663.29	-34.91	9.56	9.72	-35.07	-13.00	-22.07	H
2494.18	-34.90	10.50	10.86	-35.26	-13.00	-22.26	H
3325.70	-33.57	12.78	11.57	-32.36	-13.00	-19.36	H
1663.29	-35.59	9.56	9.72	-35.75	-13.00	-22.75	V
2494.18	-34.49	10.50	10.86	-34.85	-13.00	-21.85	V
3325.70	-33.17	12.78	11.57	-31.96	-13.00	-18.96	V
CAT-M Band 26 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.14	-34.25	9.56	9.72	-34.41	-13.00	-21.41	H
2509.21	-33.99	10.50	10.86	-34.35	-13.00	-21.35	H
3346.17	-32.29	12.78	11.57	-31.08	-13.00	-18.08	H
1673.14	-35.05	9.56	9.72	-35.21	-13.00	-22.21	V
2509.21	-35.01	10.50	10.86	-35.37	-13.00	-22.37	V
3346.17	-32.61	12.78	11.57	-31.40	-13.00	-18.40	V
CAT-M Band 26 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1683.39	-33.55	9.56	9.72	-33.71	-13.00	-20.71	H
2524.29	-35.25	10.50	10.86	-35.61	-13.00	-22.61	H
3366.31	-33.35	12.78	11.57	-32.14	-13.00	-19.14	H
1683.39	-35.56	9.56	9.72	-35.72	-13.00	-22.72	V
2524.29	-34.49	10.50	10.86	-34.85	-13.00	-21.85	V
3366.31	-31.95	12.78	11.57	-30.74	-13.00	-17.74	V



CAT-M Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1629.27	-34.05	9.56	9.72	-34.21	-13.00	-21.21	H
2444.16	-34.75	10.50	10.86	-35.11	-13.00	-22.11	H
3258.51	-33.04	12.78	11.57	-31.83	-13.00	-18.83	H
1629.27	-34.83	9.56	9.72	-34.99	-13.00	-21.99	V
2444.16	-34.49	10.50	10.86	-34.85	-13.00	-21.85	V
3258.51	-31.72	12.78	11.57	-30.51	-13.00	-17.51	V
CAT-M Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.82	-34.18	9.56	9.72	-34.34	-13.00	-21.34	H
2457.28	-34.77	10.50	10.86	-35.13	-13.00	-22.13	H
3275.83	-32.91	12.78	11.57	-31.70	-13.00	-18.70	H
1637.82	-34.94	9.56	9.72	-35.10	-13.00	-22.10	V
2457.28	-33.75	10.50	10.86	-34.11	-13.00	-21.11	V
3275.83	-32.56	12.78	11.57	-31.35	-13.00	-18.35	V
CAT-M Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1646.60	-34.16	9.56	9.72	-34.32	-13.00	-21.32	H
2456.95	-35.15	10.50	10.86	-35.51	-13.00	-22.51	H
3257.86	-32.91	12.78	11.57	-31.70	-13.00	-18.70	H
1646.60	-35.07	9.56	9.72	-35.23	-13.00	-22.23	V
2456.95	-34.64	10.50	10.86	-35.00	-13.00	-22.00	V
3257.86	-32.18	12.78	11.57	-30.97	-13.00	-17.97	V



CAT-M Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1631.45	-34.72	9.56	9.72	-34.88	-13.00	-21.88	H
2446.19	-34.27	10.50	10.86	-34.63	-13.00	-21.63	H
3261.73	-33.33	12.78	11.57	-32.12	-13.00	-19.12	H
1631.45	-34.66	9.56	9.72	-34.82	-13.00	-21.82	V
2446.19	-34.35	10.50	10.86	-34.71	-13.00	-21.71	V
3261.73	-31.86	12.78	11.57	-30.65	-13.00	-17.65	V
CAT-M Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.98	-34.83	9.56	9.72	-34.99	-13.00	-21.99	H
2457.17	-35.38	10.50	10.86	-35.74	-13.00	-22.74	H
3275.86	-32.70	12.78	11.57	-31.49	-13.00	-18.49	H
1637.98	-35.71	9.56	9.72	-35.87	-13.00	-22.87	V
2457.17	-34.46	10.50	10.86	-34.82	-13.00	-21.82	V
3275.86	-33.09	12.78	11.57	-31.88	-13.00	-18.88	V
CAT-M Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1644.84	-34.87	9.56	9.72	-35.03	-13.00	-22.03	H
2467.23	-34.45	10.50	10.86	-34.81	-13.00	-21.81	H
3276.27	-32.45	12.78	11.57	-31.24	-13.00	-18.24	H
1644.84	-35.10	9.56	9.72	-35.26	-13.00	-22.26	V
2467.23	-34.95	10.50	10.86	-35.31	-13.00	-22.31	V
3276.27	-32.47	12.78	11.57	-31.26	-13.00	-18.26	V



CAT-M Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1632.84	-34.44	9.56	9.72	-34.60	-13.00	-21.60	H
2449.39	-34.96	10.50	10.86	-35.32	-13.00	-22.32	H
3266.90	-33.51	12.78	11.57	-32.30	-13.00	-19.30	H
1632.84	-34.81	9.56	9.72	-34.97	-13.00	-21.97	V
2449.39	-35.15	10.50	10.86	-35.51	-13.00	-22.51	V
3266.90	-33.18	12.78	11.57	-31.97	-13.00	-18.97	V
CAT-M Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.77	-34.09	9.56	9.72	-34.25	-13.00	-21.25	H
2456.91	-34.43	10.50	10.86	-34.79	-13.00	-21.79	H
3276.14	-32.99	12.78	11.57	-31.78	-13.00	-18.78	H
1637.77	-36.02	9.56	9.72	-36.18	-13.00	-23.18	V
2456.91	-33.93	10.50	10.86	-34.29	-13.00	-21.29	V
3276.14	-33.02	12.78	11.57	-31.81	-13.00	-18.81	V
CAT-M Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1642.78	-34.15	9.56	9.72	-34.31	-13.00	-21.31	H
2464.05	-34.85	10.50	10.86	-35.21	-13.00	-22.21	H
3285.91	-33.26	12.78	11.57	-32.05	-13.00	-19.05	H
1642.78	-35.75	9.56	9.72	-35.91	-13.00	-22.91	V
2464.05	-34.11	10.50	10.86	-34.47	-13.00	-21.47	V
3285.91	-32.72	12.78	11.57	-31.51	-13.00	-18.51	V
CAT-M Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.93	-34.16	9.56	9.72	-34.32	-13.00	-21.32	H
2457.04	-35.02	10.50	10.86	-35.38	-13.00	-22.38	H
3276.20	-32.96	12.78	11.57	-31.75	-13.00	-18.75	H
1637.93	-35.29	9.56	9.72	-35.45	-13.00	-22.45	V
2457.04	-34.93	10.50	10.86	-35.29	-13.00	-22.29	V
3276.20	-32.86	12.78	11.57	-31.65	-13.00	-18.65	V



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

