



TEST REPORT

REPORT NUMBER: I22W00051-MPE-Rev5

ON

Type of Equipment: LPWA Module
Type of Designation: SIM7075G
Manufacturer: SIMCom Wireless Solutions Limited
Brand Name: SIMCom
FCC ID: 2AJYU-8VC0004

ACCORDING TO

FCC CFR 47 Part 2.1091 《Radiofrequency radiation exposure evaluation: mobile devices》

FCC CFR 47 Part1.1310 《Radiofrequency radiation exposure limits》

Chongqing Academy of Information and Communication Technology

Month date, year

Oct, 11, 2022

Signature

Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Revision Version

Report Number	Revision	Date	Memo
I22W00051-MPE	00	2022-8-9	Initial creation of test report
I22W00051-MPE-Rev1	01	2022-9-16	First change of test report
I22W00051-MPE-Rev2	02	2022-9-26	Second change of test report
I22W00051-MPE-Rev3	03	2022-10-9	Third change of test report
I22W00051-MPE-Rev4	04	2022-10-10	Fourth change of test report
I22W00051-MPE-Rev5	05	2022-10-11	Fifth change of test report

Note: This version has updated NB-IoT B4/B66 tune up power , then recalculated the power density value.



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1. Test Laboratory

1.1. Testing Location

Company Name:	Chongqing Academy of Information and Communications Technology
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	21.3℃
Relative Humidity:	65.0%

1.3. Project Data

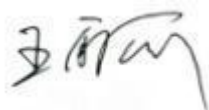
Testing Start Date:	2022-6-27
Testing End Date:	2022-9-07

1.4. Signature



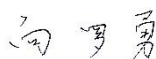
2022-10-11

Fu Bohao
(Prepared this test report)

Date

2022-10-11

Wang Lili
(Reviewed this test report)

Date

2022-10-11

Xiang Luoyong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China
Country:	CHINA
Telephone:	18616929436
Fax:	--
Email:	zhiqiang.bai703@simcom.com
Contact Person:	Li ZhiQiang Bai

2.2. Manufacturer Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China
Country:	CHINA
Telephone:	18616929436
Fax:	--
Email:	zhiqiang.bai703@simcom.com
Contact Person:	Li ZhiQiang Bai

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description:	LPWA Module
Model name:	SIM7075G
GSM Frequency Band:	GPRS850/1900; EGPRS850/1900
LTE CATM1 Frequency Band:	B2/B4/B5/B12/B13/B14/B25/B26/B66
LTE NB-IoT Frequency Band:	B2/B4/B5/B12/B13/B25/B26/B66/B71
Note: Photographs of EUT are shown in ANNEX A of this test report.	

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S3	865456056939661	V1.01	R2117.01	2022-6-24

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

EUT ID*	SN	Description
NA	NA	NA

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Applicable Standards

The MPE report was carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 2.1091.

FCC CFR 47 Part 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

4.2. Test Limits

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

MPE for the upper tier (people in controlled environments)

Frequency Range [MHz]	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100000	--	--	1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

For the DUT, the limits for the general public when an RF safety program is unavailable.

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5. Test Results

5.1. RF Power Output

Frequency Band	Highest Averaged Tune Up Power(dBm)	Highest Frame-Averaged Tune Up Power(dBm)	Antenna Gain(dBi)
GPRS850 1TX	33.00	23.97	6.00
GPRS850 2TX	33.00	26.98	6.00
GPRS850 3TX	29.00	24.74	6.00
GPRS850 4TX	29.00	25.99	6.00
GPRS1900 1TX	30.00	20.97	3.00
GPRS1900 2TX	30.00	23.98	3.00
GPRS1900 3TX	26.00	21.74	3.00
GPRS1900 4TX	26.00	22.99	3.00
EGPRS850 1TX	26.00	16.97	6.00
EGPRS850 2TX	24.00	17.98	6.00
EGPRS850 3TX	22.00	17.74	6.00
EGPRS850 4TX	22.00	18.99	6.00
EGPRS1900 1TX	26.00	16.97	3.00
EGPRS1900 2TX	23.00	16.98	3.00
EGPRS1900 3TX	23.00	18.74	3.00
EGPRS1900 4TX	21.00	17.99	3.00
CAT-M1 Band 2	22.00	22.00	3.00
CAT-M1 Band 4	22.00	22.00	6.00
CAT-M1 Band 5	22.00	22.00	6.00
CAT-M1 Band12	22.00	22.00	6.00
CAT-M1 Band 13	22.00	22.00	10.00
CAT-M1 Band 14	22.00	22.00	10.00
CAT-M1 Band 25	22.00	22.00	3.00
CAT-M1 Band 26	22.00	22.00	6.00
CAT-M1 Band 66	22.10	22.10	6.00

Notes:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

2) Disclaimers: The antenna gain in the above table are provided by the customer

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Frequency Band	Highest Averaged Tune Up Power(dBm)	Highest Frame-Averaged Tune Up Power(dBm)	Antenna Gain(dBi)
NB-IoT Band 2	22.00	22.00	3.00
NB-IoT Band 4	22.50	22.50	6.00
NB-IoT Band 5	22.00	22.00	6.00
NB-IoT Band 12	22.00	22.00	6.00
NB-IoT Band 13	22.00	22.00	10.00
NB-IoT Band 25	22.00	22.00	3.00
NB-IoT Band 26	22.00	22.00	6.00
NB-IoT Band 66	22.00	22.00	6.00
NB-IoT Band 71	22.00	22.00	6.00

Notes:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

2) Disclaimers: The antenna gain in the above table are provided by the customer

5.2. Calculation Information

For conservative evaluation consideration, only maximum power of each frequency band based on the tighter limits respectively are used to calculate the boundary power density.

Based on the FCC KDB 447498 D01 and 47 CFR §2.1091, the DUT is evaluated as a mobile device.

$$S = \frac{PG}{4\pi d^2}$$

Where

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

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5.3. Results

Frequency range	Limit(mW/cm ²)	Results(mW/cm ²)	Verdict
GPRS850 2TX	0.55	0.40	PASS
GPRS1900 2TX	1.00	0.10	PASS
EGPRS850 4TX	0.55	0.06	PASS
EGPRS1900 3TX	1.00	0.03	PASS
CAT-M1 Band 2	1.00	0.06	PASS
CAT-M1 Band 4	1.00	0.13	PASS
CAT-M1 Band 5	0.55	0.13	PASS
CAT-M1 Band12	0.47	0.13	PASS
CAT-M1 Band 13	0.52	0.32	PASS
CAT-M1 Band 14	0.53	0.32	PASS
CAT-M1 Band 25	1.00	0.06	PASS
CAT-M1 Band 26	0.54	0.13	PASS
CAT-M1 Band 66	1.00	0.13	PASS
NB-IoT Band 2	1.00	0.06	PASS
NB-IoT Band 4	1.00	0.14	PASS
NB-IoT Band 5	0.55	0.13	PASS
NB-IoT Band 12	0.47	0.13	PASS
NB-IoT Band 13	0.52	0.32	PASS
NB-IoT Band 25	1.00	0.06	PASS
NB-IoT Band 26	0.54	0.13	PASS
NB-IoT Band 66	1.00	0.13	PASS
NB-IoT Band 71	0.44	0.13	PASS

5.4. Result of GPRS 850 2TX

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.20 MHz~848.80 MHz; The maximum conducted is 26.98 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: $824.20/1500=0.55 \text{ mW/cm}^2$.

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.40 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.55 mW/cm² limit for uncontrolled exposure.

5.5. Result of GPRS 1900 2TX

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.20 MHz~1909.80MHz; The maximum conducted is 23.98 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.10 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.6. Result of EGPRS 850 4TX

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.20 MHz~848.80 MHz; The maximum conducted is 18.99 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: $824.20/1500=0.55 \text{ mW/cm}^2$.

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.06 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.55 mW/cm² limit for uncontrolled exposure.

5.7. Result of EGPRS 1900 3TX

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.20 MHz~1909.80MHz; The maximum conducted is 18.74 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.03 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.8. Result of CAT-M1 Band 2

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.0 MHz ~ 1909.9MHz; The maximum conducted is 22.00 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.06 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.9. Result of CAT-M1 Band 4

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1710.0 MHz ~ 1754.9MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.10. Result of CAT-M1 Band 5

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.0 MHz ~ 848.9 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 824.00/1500=0.55 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.55 mW/cm² limit for uncontrolled exposure.

5.11. Result of CAT-M1 Band 12

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 699.00 MHz ~ 715.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 699.00/1500=0.47 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.47 mW/cm² limit for uncontrolled exposure.

5.12. Result of CAT-M1 Band 13

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 777.00 MHz~786.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 10.00 dBi. Therefore, maximum limit for general public RF exposure: $777.00/1500=0.52$ mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.32 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.52 mW/cm² limit for uncontrolled exposure.

5.13. Result of CAT-M1 Band 14

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 788.00 MHz~797.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 10.00 dBi. Therefore, maximum limit for general public RF exposure: $788.00/1500=0.53$ mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.32 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.53 mW/cm² limit for uncontrolled exposure.

5.14. Result of CAT-M1 Band 25

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.00 MHz~1914.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.06 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.15. Result of CAT-M1 Band 26

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 814.00 MHz ~ 848.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: $814/1500=0.54$ mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.54 mW/cm² limit for uncontrolled exposure.

5.16. Result of CAT-M1 Band 66

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1710.0 MHz ~ 1779.9MHz; The maximum conducted is 22.10 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.17. Result of NB-IoT Band 2

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.0 MHz ~ 1909.9MHz; The maximum conducted is 22.60 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.06 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.18. Result of NB-IoT Band 4

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1710.0 MHz ~ 1754.9MHz; The maximum conducted is 22.50 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.14mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.19. Result of NB-IoT Band 5

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.0 MHz ~ 848.9 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 824.00/1500=0.55 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.55 mW/cm² limit for uncontrolled exposure.

5.20. Result of NB-IoT Band 12

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 699.00 MHz ~ 715.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 699.00/1500=0.47 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.47 mW/cm² limit for uncontrolled exposure.

5.21. Result of NB-IoT Band 13

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 777.00 MHz~786.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 10.00 dBi. Therefore, maximum limit for general public RF exposure: $777.00/1500=0.52$ mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.32 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.52 mW/cm² limit for uncontrolled exposure.

5.22. Result of NB-IoT Band 25

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.00 MHz~1914.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.06 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.23. Result of NB-IoT Band 26

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 814.00 MHz~848.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: $814/1500=0.54$ mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.54 mW/cm² limit for uncontrolled exposure.

5.24. Result of NB-IoT Band 66

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1710.0 MHz ~ 1779.9MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 1.00 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.25. Result of NB-IoT Band 71

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 663.00 MHz ~ 697.90 MHz; The maximum conducted is 22.00 dBm. The maximum gain is 6.00 dBi. Therefore, maximum limit for general public RF exposure: 663.00/1500=0.44 mW/cm².

$$S = \frac{PG}{4\pi d^2}$$

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.13 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 0.44 mW/cm² limit for uncontrolled exposure.



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ANNEX A: EUT photograph

See the document” LPWA Module Photos” .

*****END OF REPORT*****

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