

TEST REPORT

Report Number: 14012814-E2V2

Applicant: AMANTYA TECHNOLOGIES PRIVATE LIMITED

12TH FLOOR, TOWER B,

UNITECH CYBER PARK, SECTOR 39,

GURUGRAM, INDIA 122003

Model: 5GTP202SSn256677

Brand: verizon

FCC ID: 2BASDAMTB20231

EUT Description: SINGLE CELL SUB6

Test Standard(s): FCC Part 1 Subpart I

FCC Part 2 Subpart J

Date Of Issue:

2023-05-02

Prepared by:

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Revision History

Rev.	Issue Date	Revisions	Revised By	
V1	2023-05-01	Initial Issue	-	
V2	2023-05-02	Updated Page 8 to address TCB's question	Tina Chu	

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: AMANTYA TECHNOLOGIES PRIVATE LIMITED

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Brand: verizon

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 1 SUBPART I & PART 2 SUBPART J Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For

UL Verification Services Inc. By:

Prepared By:

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UL Verification Services Inc.

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2. TEST METHODOLOGY

All calculations were made in accordance with FCC Parts 1.1310, 2.1091, 2.1093, KDB 447498 D01 v06.

3. REFERENCES

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

All measurements were made as documented in test reports UL Verification Services Inc. Documents 14012814-E1.

Maximum output power and antenna gain data are provided by the customer.

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
\boxtimes	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA		2324A	550739
	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104		
\boxtimes	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			

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5. MAXIMUM PERMISSIBLE RF EXPOSURE

5.1. **FCC RULES**

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz) Electric field strengt (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	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					
300-1,500			f/300	6					
1,500-100,000			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					
300-1,500			f/1500	30					
1,500-100,000			1.0	30					

f = frequency in MHz

Notes:

- (1) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
- (2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure

^{* =} Plane-wave equivalent power density

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5.2. **EQUATIONS**

POWER DENSITY

Power density is given by:

 $S = EIRP / (4 * Pi * D^2)$

Where

S = Power density in mW/cm^2 EIRP = Equivalent Isotropic Radiated Power in mW D = Separation distance in cm

Power density in units of mW/cm² is converted to units of W/m² by multiplying by 10.

DISTANCE

Distance is given by:

D = SQRT (EIRP / (4 * Pi * S))

Where

D = Separation distance in cm EIRP = Equivalent Isotropic Radiated Power in mW S = Power density in mW/cm^2

SOURCE-BASED DUTY CYCLE

Where applicable (for example, multi-slot cell phone applications) a duty cycle factor may be applied.

Source-based time-averaged EIRP = (DC / 100) * EIRP

Where

DC = Duty Cycle in %, as applicable EIRP = Equivalent Isotropic Radiated Power in W REPORT NO: 14012814-E2V2 DATE: 2023-05-02 EUT Model: 5GTP202SSn256677 FCC ID: 2BASDAMTB20231

6. RF EXPOSURE RESULTS

In the table(s) below, Power and Gain are entered in units of dBm and dBi respectively and conversions to linear forms are used for the calculations.

Single Chain and non-colocated transmitters									
Band	Mode	Separ.	Output	Ant.	EIRP	Duty	EIRP	FCC PD	FCC
		Distance	AVG	Gain		Cycle			PD Limit
			Power						
		(cm)	(dBm)	(dBi)	(dBm)	(%)	(mW)	(mW/cm^2)	(mW/cm^2)
5G NR n2	QPSK	20.00	9.31	5.20	14.51	100.0	28.25	0.01	1.00
5G NR n5	QPSK	20.00	-3.38	0.80	-2.58	100.0	0.55	0.00	0.58
5G NR n66	QPSK	20.00	8.90	4.20	13.10	100.0	20.42	0.00	1.00

Notes:

- 1) The manufacturer configures output power so that the maximum power, after accounting for manufacturing tolerances, will never exceed the maximum power level measured.
- 2) The output power in the tables above is the maximum total power (chain 0 + chain 1) among various channels and various modes within the specific band.
- 3) The antenna gain in the tables above is the maximum antenna gain among various channels within the specified band.

END OF REPORT