RF Exposure MPE

Report Reference No.....:	**CTA26081802208**
FCC ID..... :	**2BE7Z-T5MAX**
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Date of issue .....:	Sep. 13, 2026
Testing Laboratory Name.....:	**Shenzhen CTA Testing Technology Co., Ltd.**
Address.....:	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name.....:	**Shenzhen Cylan Technology Co., Ltd.**
Address.....:	211-212,Shenzhen Folk Culture Industrial Park, No.1,Qunli 2nd Road,Xingdong Community, Xin'an, Sub-district, Bao'an District, Shenzhen, China
Standard.....:	**47CFR §1.1310** **47CFR §2.1091** **KDB447498 D01 General RF Exposure Guidance v06**

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Test item description .....:	**Dual-Screen Translation Device**
Trade Mark .....:	
Manufacturer .....:	Shenzhen Cylan Technology Co., Ltd.
Model/Type reference .....:	T5 Max
Listed Models .....:	T5 Max-W, T5 Max-P, T5 Pro, face 2.0
Rating .....:	Input: 5V ⎓ 3A Battery: 3.7V 4000mAh 14.8Wh
Result .....:	**PASS**

TEST REPORT

Equipment under Test	:	Dual-Screen Translation Device
Model /Type	:	T5 Max
Listed Models	:	T5 Max-W, T5 Max-P, T5 Pro, face 2.0
Model difference	:	The PCB board, circuit, structure and internal of these models are the same, only model number and colour are different for these models. So the tests were performed on model T5 Max and the test results for the main test model can cover the listed models.
Applicant	:	**Shenzhen Cylan Technology Co., Ltd.**
Address	:	211-212,Shenzhen Folk Culture Industrial Park, No.1,Qunli 2nd Road,Xingdong Community, Xin'an, Sub-district, Bao'an District, Shenzhen, China
Manufacturer	:	**Shenzhen Cylan Technology Co., Ltd.**
Address	:	211-212,Shenzhen Folk Culture Industrial Park, No.1,Qunli 2nd Road,Xingdong Community, Xin'an, Sub-district, Bao'an District, Shenzhen, China

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.
FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.
FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Aug. 18, 2026
Testing commenced on	:	Aug. 18, 2026
Testing concluded on	:	Sep. 13, 2026

2.2 Product Description

Product Name:	Dual-Screen Translation Device			
Model/Type reference:	T5 Max			
Power supply:	Input: 5V ⎓ 3A Battery: 3.7V 4000mAh 14.8Wh			
Adapter information:	Model: DCT18W050300US-A0 Input: 100-240V ~ 50/60Hz 0.7A max. Output: 5.0V ⎓ 3.0A			
Hardware version:	V1.0			
Software version:	V1.0			
Testing sample ID:	CTA260818022-1# (Engineer sample) CTA260818022-2# (Normal sample)			
2.4GWIFI :				
Supported type:	802.11b/802.11g/802.11n(HT20)/ 802.11n(HT40)			
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20)/ 802.11n(HT40): OFDM			
Operation frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz			
Channel number:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40):7			
Channel separation:	5MHz			
Antenna type:	PIFA antenna			
Antenna gain:	2.70 dBi			
5GWIFI				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n	802.11n	N/A	N/A
Operation frequency:	802.11a 802.11n	802.11n	N/A	N/A
Modulation:	5745MHz-5825MHz	5755MHz-5795MHz	N/A	N/A
Channel number:	OFDM	OFDM	N/A	N/A
Channel separation:	5	2	N/A	N/A
Antenna type:	PIFA antenna			
Antenna gain:	3.03 dBi			
LTE				

Operation Band:	E-UTRA Band 2/4/5/12/66
Support Bandwidth:	Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz Band 4: 1.4MHz, 3MHz, 5MHz,10MHz, 15MHz, 20MHz Band 5: 1.4MHz, 3MHz, 5MHz,10MHz, Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz, Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
TX/RXFrequency Range:	E-UTRA Band 2(TX:1850 MHz -1910MHz,RX: 1930-1990MHz) E-UTRA Band 4(TX:1710 MHz -1755MHz,RX: 2110-2155MHz) E-UTRA Band 5(TX:824 MHz -849MHz,RX: 869-894MHz) E-UTRA Band 12(TX:699 MHz -716MHz,RX: 729-746MHz) E-UTRA Band 66(TX:1710 MHz -1780MHz,RX: 2110-2200 MHz)
Modulation Type:	QPSK, 16QAM
Category:	Cat 1
Antenna Type:	PIFA antenna
Antenna Gain:	3.85dBi for Band 2 3.85dBi for Band 4 1.30dBi for Band 5 1.81dBi for Band 12 3.85dBi for Band 66

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:
FCC-Registration No.: 517856 Designation Number: CN1318
Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01
Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

ISED#: 27890 CAB identifier: CN0127
Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)
Time	/	±2%	(1)

4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100) *	30
1.34 – 30	824/f	2.19/f	(180/f²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density

4.2 MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

$S=PG/4\pi R^2$
Where: S=power density
P=power input to antenna
G=power gain of the antenna in the direction of interest relative to an isotropic radiator
R=distance to the center of radiation of the antenna

4.3 Conducted Power Results

Type	Channel	Output power PK (dBm)
802.11b	01	14.83
	06	14.96
	11	15.06
802.11g	01	14.12
	06	14.19
	11	14.49
802.11n(HT20)	01	14.08
	06	14.12
	11	14.35
802.11n(HT40)	03	14.43
	06	14.67
	09	14.59

Test Mode	Antenna	Freq(MHz)	Result [dBm]
11A	Ant1	5180	14.14
		5220	13.57
		5240	13.50
		5745	13.38
		5785	13.71
		5825	13.62
11N20SISO	Ant1	5180	13.54
		5220	13.93
		5240	14.14
		5745	13.57
		5785	13.50
		5825	13.38
11N40SISO	Ant1	5190	13.71
		5230	13.62
		5755	13.54
		5795	13.93

LTE Band	Max Conduct Output power (dBm)	Max. tune-up
Band 2	22.82	22.0±1
Band 4	22.79	22.0±1
Band 5	22.67	22.0±1
Band 12	22.87	22.0±1
Band 66	22.66	22.0±1

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
2.4GWIFI	15.06	15.0±1
Mode	Max. Average Conducted Output Power (dBm)	Max. tune-up
5.8GWIFI	15.17	15.0±1

4.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)	MPE Limits (Ratio)
	dBm	mW					
2.4GWIFI	16.0	39.8107	2.70	1.8621	0.0148	1.0000	0.0148
5.8GWIFI	16.0	39.8107	3.03	2.0091	0.0159	1.0000	0.0159
Band 2	23.0	199.5262	3.85	2.4266	0.0964	1.0000	0.0964
Band 4	23.0	199.5262	3.85	2.4266	0.0964	1.0000	0.0964
Band 5	23.0	199.5262	1.30	1.3490	0.0536	0.5493	0.0976
Band 12	23.0	199.5262	1.81	1.5171	0.0602	0.4660	0.1292
Band 66	23.0	199.5262	3.85	2.4266	0.0964	1.0000	0.0964

Remark:
1. Output power including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

4.6 Simultaneous Transmission for MPE Result

5.8GWIFI MPE (Ratio)	LTE MPE (Ratio)	simultaneous MPE (Ratio)	MPE Limits (Ratio)
0.0159	0.1292	0.1451	1.0000

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

********** **End of Report** **********