

TESTING CENTRE TEC				
	TEST REPOR	1		
FCC ID:	2AUARS3			
Test Report No::	TCT230629E029			
Date of issue::	Jul. 27, 2023			
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB		
Testing location/ address:	2101 & 2201, Zhenchang Factor Fuhai Subdistrict, Bao'an District 518103, People's Republic of Ch	t, Shenzhen, Guango		
Applicant's name::	THINKCAR TECH CO., LTD.			
Address::	2606, building 4, phase II, Tiana Bantian, Longgang District, Sher	O	mmunity,	
Manufacturer's name:	THINKCAR TECH CO., LTD.			
Address::	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China			
Standard(s)::	FCC CFR Title 47 Part 15 Subpa	art C Section 15.231		
Product Name::	THINKTPMS S3	(C)	(0)	
Trade Mark:	THINKCAR, XHINKCAR			
Model/Type reference:	TKT3	(3)		
Rating(s)::	DC 3V			
Date of receipt of test item	Jun. 29, 2023	(C)	(c ⁿ)	
Date (s) of performance of test:	Jun. 29, 2023 - Jul. 27, 2023			
Tested by (+signature):	Aaron MO	Auron Augus		
Check by (+signature):	Beryl ZHAO	BOYCE TOT	PUILE	
Approved by (+signature):	Tomsin	Joms 18 8		

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Table of Contents

1.	General Product Information			3
	1.1. EUT description			3
	1.2. Model(s) list			
2.	Test Result Summary			4
3.	General Information			5
	3.1. Test Environment and Mode			5
	3.2. Description of Support Units	<u> </u>		6
4.	Facilities and Accreditations			7
	4.1. Facilities			7
	4.2. Location)	(0)	7
	4.3. Measurement Uncertainty			7
5.	Test Results and Measurement Data			
	5.1. Antenna Requirement			8
	5.2. Conducted Emission			9
	5.3. Radiated Emission Measurement			
	5.4. Manually Activated Transmitter	• • • • • • • • • • • • • • • • • • • •		21
	5.5. Occupied Bandwidth			23
Ap	pendix A: Photographs of Test Setup			
Ap	pendix B: Photographs of EUT			



1. General Product Information

Report No.: TCT230629E029

1.1. EUT description

Product Name:	THINKTPMS S3		
Model/Type reference:	ТКТ3		
Sample Number:	TCT230629E029-0101		
Operation Frequency:	315MHz, 433.92MHz	(C)	
Modulation Technology:	FSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	0dBi		
Rating(s):	DC 3V		

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for

this parameter. Model(s) list 1.2. None.

Page 3 of 30

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203/§15.247 (c)	PASS
Conduction Emission, 0.15MHz to 30MHz	§15.207	N/A
Manually Activated Transmitter	§15.231(a)	PASS
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(c)	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. General Information

3.1. Test Environment and Mode

Operating Environment:			
Condition	Radiated Emission		
Temperature:	25.3 °C		
Humidity:	55 % RH		
Test Mode:			
TM1:	Keep the EUT in 315M transmitting with modulation		
TM2:	Keep the EUT in 433M transmitting with modulation		
Remark:	Both modes cannot work simultaneously and have been tested, and the worse mode (TM1) is report only.		

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Y axis) are shown in Test Results of the following pages.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	Х	Υ	Z
Field Strength(dBuV/m)	52.47	55.31	52.59

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)



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3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Automotive Diagnostic Tool	TKTT1	960639800258 V0) /	THINKCAR TECH CO., LTD.

Note: TPMS Service tool TBM0100 has passed FCC DoC test certification and meets the requirements of auxiliary device.

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB.

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. 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	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
7	Temperature	± 0.1°C
8	Humidity	± 1.0%

Report No.: TCT230629E029



5. Test Results and Measurement Data

5.1. Antenna Requirement

Standard requirement: FC

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

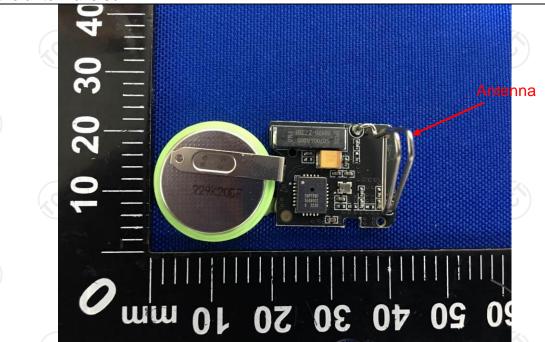
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is internal antenna which permanently attached, and the best case gain of the antenna is 0dBi.



Page 8 of 30

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5.2. Conducted Emission

5.2.1. Test Specification

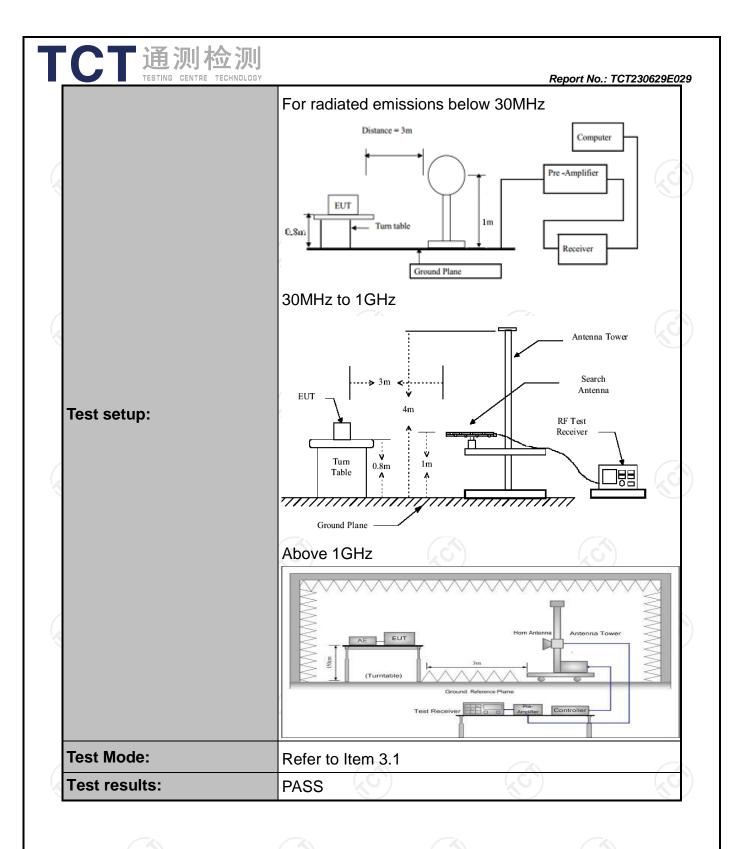
Test Requirement:	FCC Part15 C Section	15.207	AC.	
Test Method:	ANSI C63.4:2014	ANSI C63.4:2014		
Frequency Range:	150 kHz to 30 MHz	C ⁽)	(C)	
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto	
	Frequency range	Limit (dBuV)	
	(MHz)	Quasi-peak	Average	
Limits:	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	Referenc	e Plane	1201	
Test Setup:	Test table/Insulation plane Remark E.U.T: Equipment Under Test	E.U.T AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network		
Test Mode:	Transmitting Mode	<u> </u>		
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 			
	ANSI C63.4: 2014 o	n conducted mea	isurement.	



5.3. Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209				
Test Method:	ANSI C63.4: 2014 and ANSI C63.10:2013				
Frequency Range:	9 kHz to 5 G	Hz			
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal &	Vertical			
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz	Detector Quasi-peak Quasi-peak Quasi-peak Peak Peak	RBW 200Hz 9kHz 120KHz 1MHz 1MHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value
Test Procedure:	meters a below 10 1GHz. T determine 2. The EU interferen on the top 3. The anter meters at value of vertical p the meas 4. For each s to its wor heights fit table was find the m 5. The test-Function Hold Mod 6. If the emi 10dB lowed be stopped reported. 0 10dB mar peak, quasi	bove the game of the position of a varial and height in the field olarizations urement. Suspected east case and som 1 meters turned from aximum representations and Spected east on the position of the positi	ground a above was room of the et 3 ming antended be a strength of the a strength of	the grotated 36 highest eters a na, which antenna in the EU e antenna in the EU e antenna in the EUT in profised, the es of the esions the sted one method and in the eters are sted one method and	way from the h was mounted





5.3.2. Limit

Report No.:	TCT230629E029
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Fundamental Frequency (MHz)	Filed Strength of Filed Strength Fundamental Spurious Emis (microvolts/meter) (microvolts/meter)			
40.66-40.70	2250	225		
70-130	1250	125		
130-174	1250 to 3750*	125 to 375*		
174-260	3750	375		
260-470	3750 to 12500*	375 to 1250*		
Above 470	12500	1250		
Horn Antenna	Schwarzbeck	BBHA 9120D		

^{*}Linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

Fundamental Frequency (MHz)	Filed Strength of Fundamental (dBµV/m)	Filed Strength of Spurious Emission(dBµV/m)
315	75.62	55.62
433.92	80.83	60.83

Note:

- 1. Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.
- 2.According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.
- 3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits one higher field strength.



Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3 (3)	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)







5.3.3. Test Instruments

	Radiated Emission Test Site (966)										
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due							
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024							
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024							
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 20, 2024							
Pre-amplifier	SKET		SK2021092 03500	Feb. 20, 2024							
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024							
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024							
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024							
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 01, 2024							
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 24, 2024							
Coaxial cable	SKET	RC-18G-N-M	1	Feb. 24, 2024							
Coaxial cable	SKET	RC_40G-K-M	1	Feb. 24, 2024							
EMI Test Software	Shurple Technology	EZ-EMC		1 6							





5.3.4. Test Data

Duty Cycle Test Data:

315MHz:

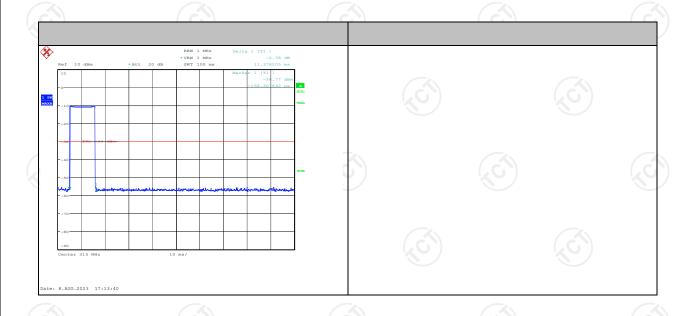
Total time (ms)	Effective time (ms)	Duty Cycle	AV Factor(dB)
100	11.38	0.11	-19.17

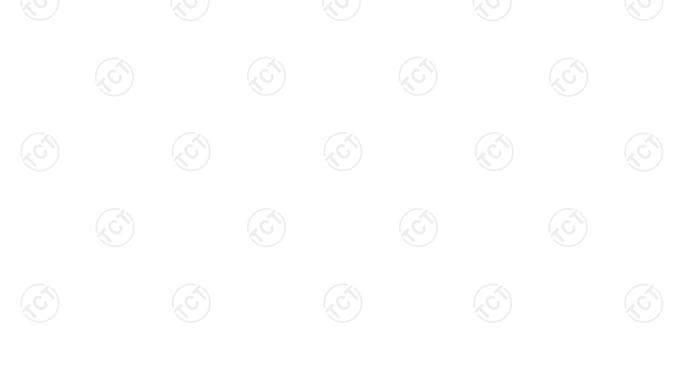
Note:

Effective time= 11.38ms

Duty Cycle= Effective time/ Total time= 0.11

AV Factor = 20 log(Duty Cycle)= -19.17







433.92MHz:

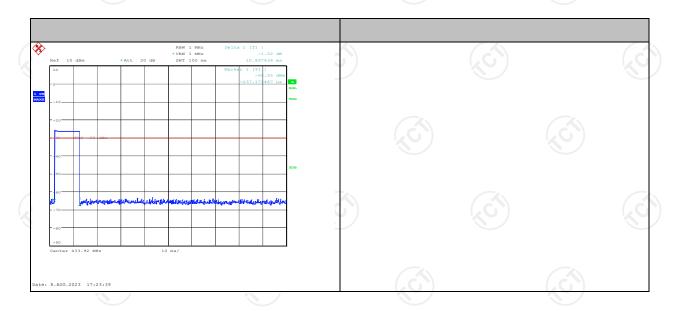
Total time(ms)	Effective time(ms)	Duty Cycle	AV Factor(dB)	
100	10.90	0.11	-19.17	

Note:

Effective time= 10.90ms

Duty Cycle= Effective time/ Total time= 0.11

AV Factor = 20 log(Duty Cycle)= -19.17







Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
315	66.89	Н	95.62	-28.73
315	62.97	V	95.62	-32.65
433.92	65.63	H (c	100.83	-35.20
433.92	62.83	V	100.83	-38.00

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)
315	66.89	-19.17	Н	47.72	75.62	-27.90
315	62.97	-19.17	V	43.8 0	75.62	-31.82
433.92	65.63	-19.17	Н	46.46	80.83	-34.37
433.92	62.83	-19.17	(C) V	43.66	80.83	-37.17

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Freque	ency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
		-	<u> </u>
(0)	(XO.)	(KD.)	((0)) ((0)

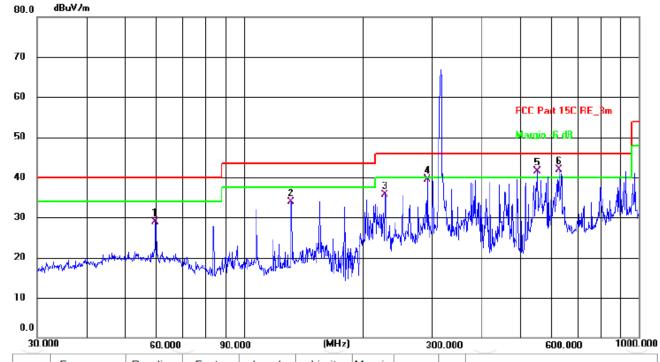
Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Page 17 of 30



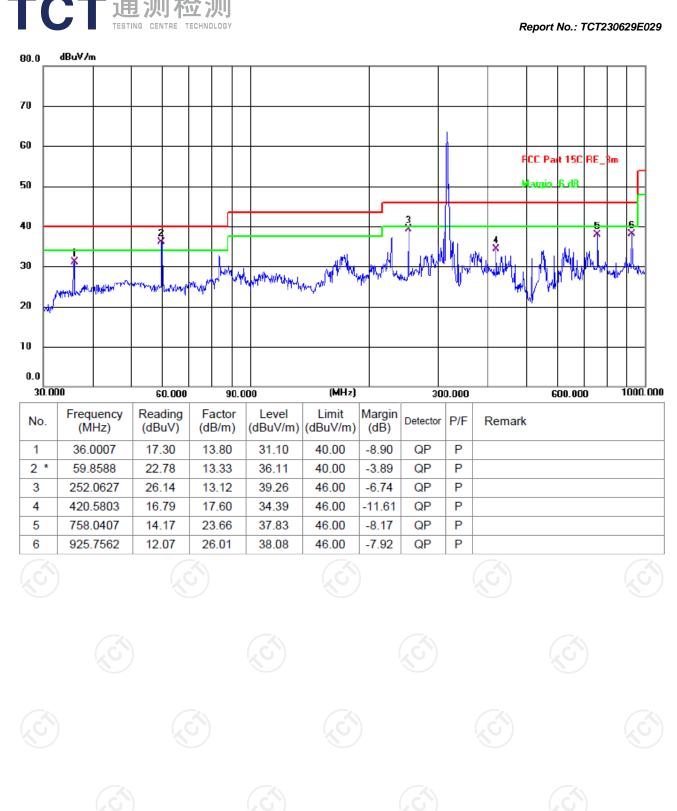
Below 1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	59.8588	15.54	13.33	28.87	40.00	-11.13	QP	Р	
2	131.7572	20.06	13.90	33.96	43.50	-9.54	QP	Р	
3	227.6904	23.25	12.48	35.73	46.00	-10.27	QP	Р	
4	291.0358	25.15	14.39	39.54	46.00	-6.46	QP	Р	
5!	552.8831	21.15	20.35	41.50	46.00	-4.50	QP	Р	
6 *	627.2735	19.86	22.09	41.95	46.00	-4.05	QP	Р	









Above 1GHz (PK value)

Frequency PK Value (MHz)	Read Level PK (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level PK (dBuV/m)	Limit Line PK (dBuV/m)	Over Limit (dB)	Polarization
1370.00	35.84	25.66	4.59	33.39	32.70	74.00	-41.30	Vertical
2355.00	36.56	27.69	5.34	34.05	35.54	74.00	-38.46	Vertical
3415.00	35.82	28.67	6.80	32.85	38.44	74.00	-35.56	Vertical
4150.00	31.63	30.06	8.01	32.01	37.69	74.00	-36.31	Vertical
4695.00	31.97	31.65	8.51	32.03	40.10	74.00	-33.90	Vertical
5645.00	29.42	32.36	9.72	32.35	39.15	74.00	-34.85	Vertical
1430.00	34.21	25.42	4.64	33.47	30.80	74.00	-43.20	Horizontal
2410.00	34.27	27.57	5.40	33.99	33.25	74.00	-40.75	Horizontal
3395.00	36.64	28.60	6.76	32.87	39.13	74.00	-34.87	Horizontal
4115.00	29.23	29.95	7.97	32.05	35.10	74.00	-38.90	Horizontal
4635.00	29.56	31.57	8.46	32.01	37.58	74.00	-36.42	Horizontal
5590.00	27.42	32.22	9.63	32.38	36.89	74.00	-37.11	Horizontal

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (dB μ V/m)- limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "*" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





5.4. Manually Activated Transmitter

5.4.1. Test Specification

FCC Part15 C Section 15	.231(a)(1)			
ANSI C63.10: 2013				
According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.				
 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings. VBW = 1MHz, VBW≥RBW; Span = 0; Sweep Time > T(on)+5S; Detector function = peak; 				
Spectrum Analyzer	EUT (C)			
Refer to Item 3.1				
PASS	(6)			
	According to 15.231(a), A shall employ a switch that the transmitter within not released. 1. According to the follow position between the at 2. Set to the maximum part transmit continuous. Use the following spector VBW = 1MHz, VBW≥F Span = 0; Sweep Time Detector function = per 4. Measure and record the spectrum Analyzer Refer to Item 3.1			

5.4.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model Serial Numb		Calibration Due				
Spectrum Analyzer	R&S	FSU	200054	Jun. 27, 2024				

Page 21 of 30

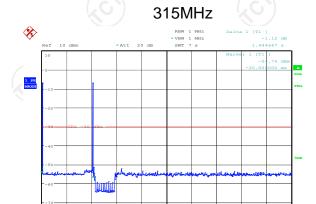
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5.4.3. Test data

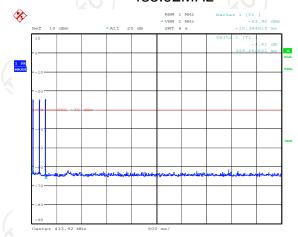
Test Channel (MHz)	Manually Activated Transmitter (s)	Limit (s)	Conclusion
315	1.44	5	PASS
433.92	0.33	5	PASS

Test plots as follows:



Date: 8.AUG.2023 17:19:01

433.92MHz



Date: 8.AUG.2023 17:22:51



5.5. Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231C		
Test Method:	ANSI C63.10: 2013		
Limit:	According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.		
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW ≥ 1% of the 20 dB bandwidth; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 		
Test setup:	Spectrum Analyzer EUT		
Test Mode:	Refer to Item 3.1		
Test results:	PASS		

5.5.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	R&S	FSU	200054	Jun. 27, 2024		

Page 23 of 30

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



TESTING CENTRE TECHNOLOGY Report No.: TCT230629E029

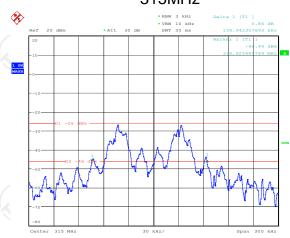
5.5.3. Test data

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
315	138.94	787.50	PASS
433.92	135.90	1084.80	PASS

Note: Limit = 315MHz *0.25% = 787.50 kHz, Limit = 433.92MHz *0.25% = 1084.80 kHz

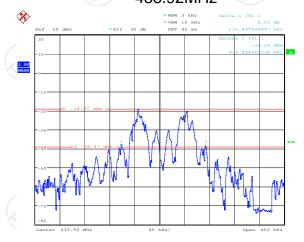
Test plots as follows:





Date: 21.JUL.2023 10:55:15

433.92MHz



Date: 21.JUL.2023 11:00:4

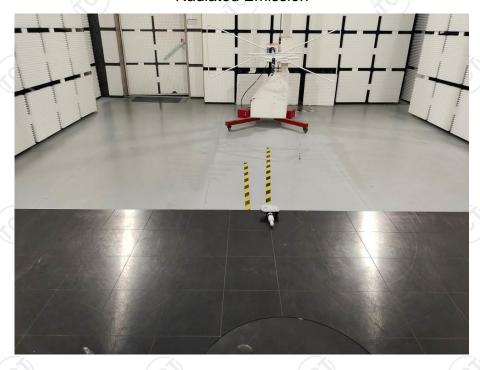


Appendix A: Photographs of Test Setup Product: THINKTPMS S3

Product: THINKTPMS S3

Model: TKT3

Radiated Emission



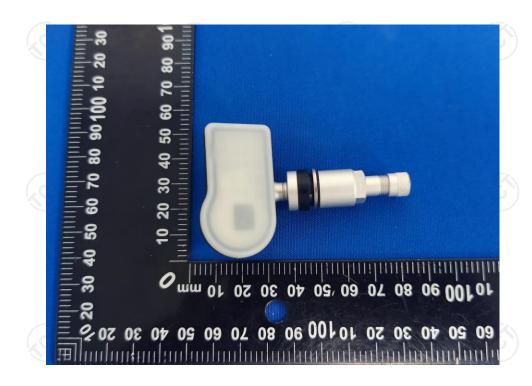




Appendix B: Photographs of EUT Product: THINKTPMS S3

Model: TKT3
External Photos





TCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT230629E029









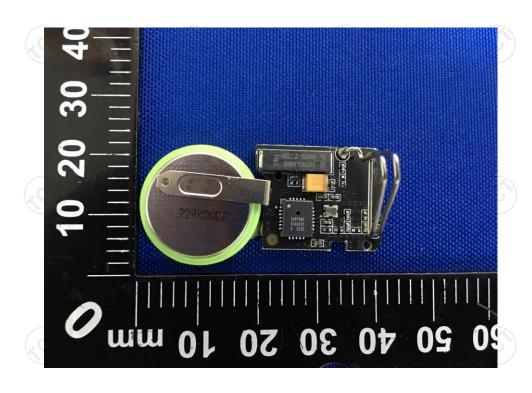


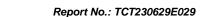
Page 28 of 30



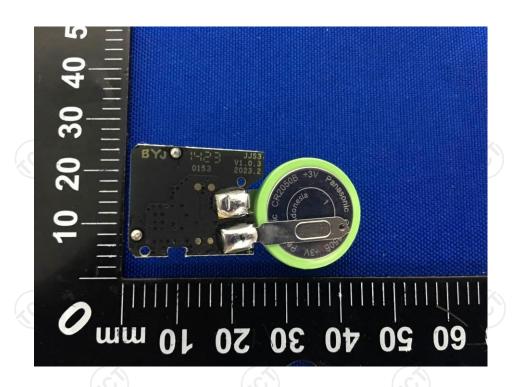
Product: THINKTPMS S3
Model: TKT3
Internal Photos

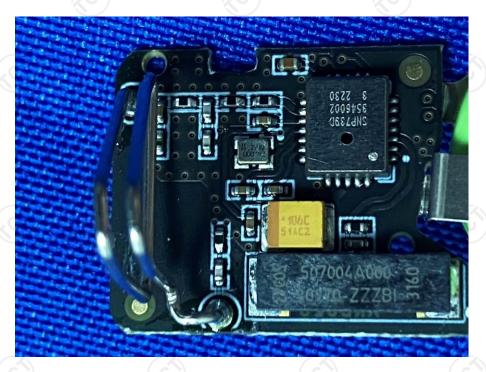












*****END OF REPORT****

Page 30 of 30

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