



FCC TEST REPORT FCC ID: 2A3JH-PC369A

Report Number.....: ZKT-220822L5905E-3

Date of Test...... August 24, 2022 to September 27, 2022

Date of issue.....: September 28, 2022

Total number of pages...... 27

Test Result: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Applicant's name: Dongguan Yuzhenrong Trading Co., Ltd.

Room 204 No.74 Humen, Xinlian 9th Street, Humen Village, Humen Address Town, Dongguan City, Guangdong, China

Manufacturer's name Dongguan Yuzhenrong Trading Co., Ltd.

Room 204 No.74 Humen, Xinlian 9th Street, Humen Village, Humen Address:

Town, Dongguan City, Guangdong, China

Test specification:

Standard..... FCC CFR Title 47 Part 15 Subpart C Section 15.249 ANSI C63.10:2013

Test procedure.....: /

Non-standard test method: N/A

Test Report Form No....: TRF-EL-111_V0

Test Report Form(s) Originator.....: ZKT Testing

Master TRF Dated: 2020-01-06

This device described above has been tested by ZKT, and 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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Product name.....: Wireless Keyboard

Trademark: __

Model/Type reference..... PC369A

Ratings..... : DC 3V by 2*AAA

Shenzhen ZKT Technology Co., Ltd.













Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Industrial Avenue, Fuhai Street, Bao'an District,

Shenzhen, China

Tested by (name + signature)...... Jim Liu

Approved (name + signature)......Lake Xie

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Table of Contents	Page
1.VERSION	4
2. SUMMARY OF TEST RESULTS	5
2.1 TEST FACILITY	6
2.2 MEASUREMENT UNCERTAINTY	6
3. GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 DESCRIPTION OF TEST MODES	8
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TI	ESTED 8
3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	8
3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
4. EMC EMISSION TEST	11
4.1 CONDUCTED EMISSION MEASUREMENT	11
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	11
4.1.2 TEST PROCEDURE 4.1.3 DEVIATION FROM TEST STANDARD	11 11
4.1.4 TEST SETUP	12
4.1.5 EUT OPERATING CONDITIONS	12
4.2 RADIATED EMISSION MEASUREMENT	13
4.2.1 RADIATED EMISSION LIMITS 4.2.2 TEST PROCEDURE	13 14
4.2.3 DEVIATION FROM TEST STANDARD	14
4.2.4 TEST SETUP	15
4.2.5 EUT OPERATING CONDITIONS	16
5. RADIATED BAND EMISSION MEASUREMENT	21
5.1 TEST REQUIREMENT: 5.2 TEST PROCEDURE	21 21
5.3 DEVIATION FROM TEST STANDARD	21
5.4 TEST SETUP	22
5.5 EUT OPERATING CONDITIONS 5.6 TEST RESULT	22 23
6. BANDWIDTH TEST	24
7. ANTENNA REQUIREMENT	26
8. TEST SETUP PHOTO	27
9 FUT CONSTRUCTIONAL DETAILS	27

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1.VERSION

Report No.	Version	Description	Approved
ZKT-220822L5905E-3	Rev.01	Initial issue of report	September 28, 2022
)			
V	5/6/		

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C							
Standard Section	Test Item	Judgment	Remark				
FCC part 15.203	Antenna requirement	PASS					
FCC part 15.207	AC Power Line Conducted Emission	N/A					
FCC part 15.249(d)	Band Edge	PASS					
FCC part 15.205/15.209/ 15.249	Spurious Emission	PASS					
	C. C.						

NOTE:

(1)"N/A" denotes test is not applicable in this Test Report

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2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add.: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an

District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299 IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± 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	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C













3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless Keyboard	
Model No.:	PC369A	
Model Different.:	N/A	
Serial No.:	ZKT-220822L5905E	
Hardware Version:	V1.0	
Software Version:	V1.0	
Sample(s) Status:	Engineer sample	
Operation Frequency:	2403MHz~2480MHz	
Channel Numbers:	16	676
Channel Separation:	1MHz	1984
Modulation Type:	GFSK	
Antenna Type:	SMD Antenna	
Antenna gain:	-0.61dBi	
Power supply:	DC 3V by 2*AAA	
SWITCHING POWER	N/A	
ADAPTER:	IVA	

Operation	Operation Frequency each of channel									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency			
1	2403 MHz	5	2422 MHz	9	2441 MHz	13	2463 MHz			
2	2407 MHz	6	2426 MHz	10	2445 MHz	14	2466 MHz			
3	2414 MHz	7	2436 MHz	11	2453 MHz	15	2473 MHz			
4	2419 MHz	8	2439 MHz	12	2459 MHz	16	2480 MHz			

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2403MHz
The middle channel	2441MHz
The Highest channel	2480MHz

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Project No.: ZKT-220822L5905E-3

Page 8 of 27

3.2 DESCRIPTION OF TEST MODES

Transmitting mode Keep the EUT in continuously transmitting mode					
- 444	- 22				
Remark: The tests were carried out using brand new battery power.					

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission

EUT

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless Keyboard	$\langle 1 \rangle$	PC369A	N/A	EUT
A-1	Note Book	Lenovo	ThinkPad E15 Gen 2	SPPOP39975	Auxiliary
0	163				

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>FLength</code> <code>_</code> column.

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3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Project No.: ZKT-220822L5905E-3 Page 9 of 27

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 21, 2022	Sep. 20, 2023
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 21, 2022	Sep. 20, 2023
3	Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Sep. 21, 2022	Sep. 20, 2023
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 21, 2022	Sep. 20, 2023
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 21, 2022	Sep. 20, 2023
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 21, 2022	Sep. 20, 2023
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 21, 2022	Sep. 20, 2023
8	Amplifier (1GHz-40GHz)	全聚达	DLE-161	097	Sep. 21, 2022	Sep. 20, 2023
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 21, 2022	Sep. 20, 2023
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 21, 2022	Sep. 20, 2023
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 21, 2022	Sep. 20, 2023
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 21, 2022	Sep. 20, 2023
13	CMW500 Test	R&S	CMW500	106504	Sep. 21, 2022	Sep. 20, 2023
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 21, 2022	Sep. 20, 2023
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 21, 2022	Sep. 20, 2023
16	D.C. Power Supply	LongWei	TPR-6405D	\	1	١
17	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	1	1
18	RF Software	MW	MTS8310	V2.0.0.0	1	\
19	Turntable	MF	MF-7802BS	\	1	١
20	Antenna tower	MF	MF-7802BS	1	\	\

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Project No.: ZKT-220822L5905E-3 Page 10 of 27

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	N/A	Sep. 21, 2022	Sep. 20, 2023
2	LISN	CYBERTEK	EM5040A	N/A	Sep. 21, 2022	Sep. 20, 2023
3	Test Cable	N/A	C01	N/A	Sep. 21, 2022	Sep. 20, 2023
4	Test Cable	N/A	C02	N/A	Sep. 21, 2022	Sep. 20, 2023
5	EMI Test Receiver	R&S	ESCI3	101421	Sep. 21, 2022	Sep. 20, 2023
6	Triple-Loop Antenna	LAPLACE	RF300	9194	Sep. 21, 2022	Sep. 20, 2023
7	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 21, 2022	Sep. 20, 2023
8	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	\	\

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

EDECHENCY (MH-)	Limit (d	Standard		
FREQUENCY (MHz)	Quas-peak	Average	Staridard	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC	
0.50 -5.0	56.00	46.00	FCC	
5.0 -30.0	60.00	50.00	FCC	

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



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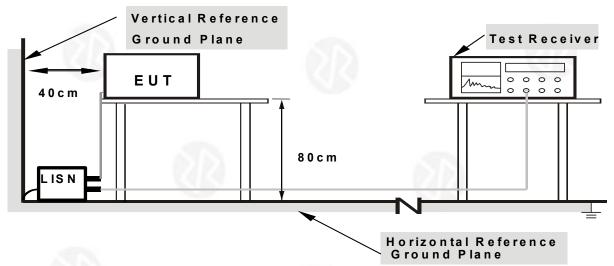








4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to Charging during test. This operating condition was tested and used to collect the included data.

The test mode is the Bluetooth operating mode in the charging state, and the worst data of 2403MHz was reported.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 Test Result

Because the product uses dry battery power, so not applicable.

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4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Sect	FCC Part15 C Section 15.209 and 15.249							
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz	9kHz to 25GHz							
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	9KHz-150KHz Quasi-po		200Hz	600Hz	Quasi-peak				
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak				
		Peak	1MHz	3MHz	Peak				
	Above 1GHz	Peak	1MHz	10Hz	Average				

4.2.1 RADIATED EMISSION LIMITS

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

FCC Part 15.249 (a)

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)		
902-928 MHz	50	500		
2400-2483.5 MHz	50	500		
5725-5875 MHz	50	500		
24.0-24.25 GHz	250	2500		

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LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)				
	PEAK	AVERAGE			
Above 1000	74	54			

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation





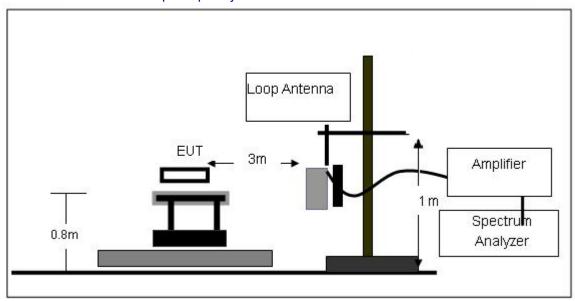




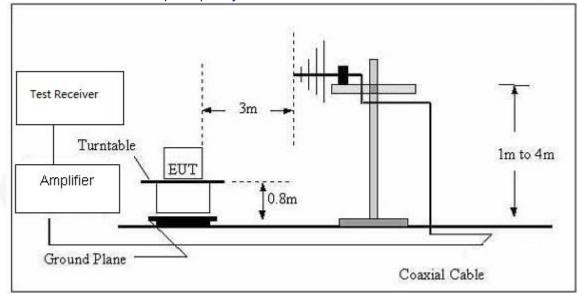


4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



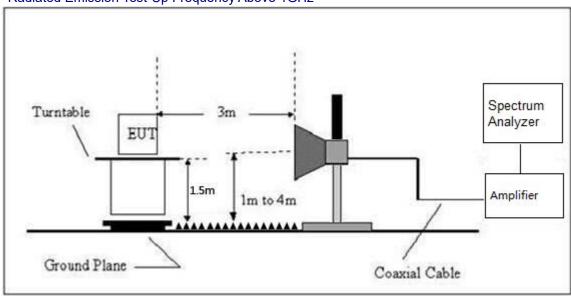
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz







(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

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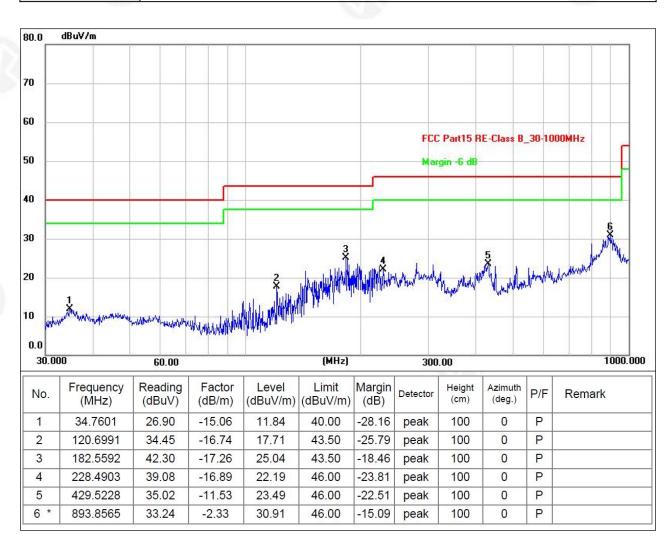






Between 30MHz - 1GHz

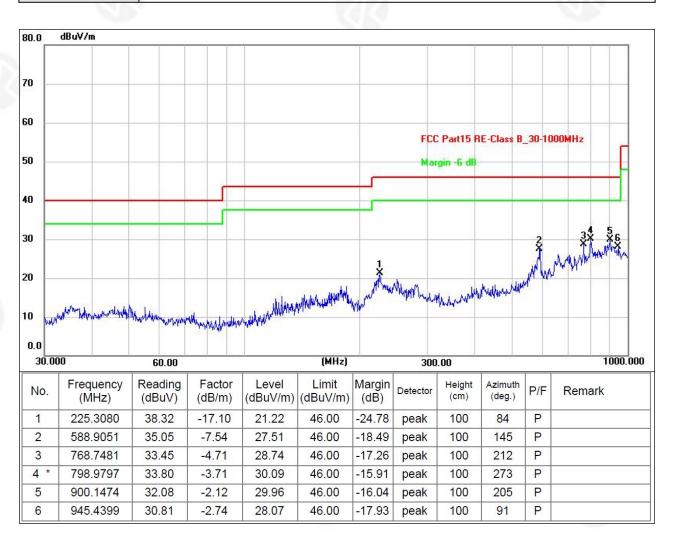
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3V	72/23	67.







Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3V	40	02122



Remarks:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The test data shows only the worst case GFSK mode and worst channel 2403MHz.

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1GHz~25GHz

Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			I	_ow Cha	nnel:2403M	Hz			
V	2403.00	86.94	30.22	4.85	23.98	85.55	114.00	-28.45	Pk
V	2403.00	84.61	30.22	4.85	23.98	83.22	94.00	-10.78	AV
V	4806.00	55.43	30.55	5.77	24.66	55.31	74.00	-18.69	Pk
V	4806.00	46.82	30.55	5.77	24.66	46.7	54.00	-7.30	AV
V	7209.00	53.79	30.33	6.32	24.55	54.33	74.00	-19.67	Pk
V	7209.00	44.03	30.33	6.32	24.55	44.57	54.00	-9.43	AV
Н	2403.00	91.51	30.22	4.85	23.98	90.12	114.00	-23.88	Pk
Н	2403.00	90.21	30.22	4.85	23.98	88.82	94.00	-5.18	AV
Н	4806.00	57.75	30.55	5.77	24.66	57.63	74.00	-16.37	Pk
Н	4806.00	46.87	30.55	5.77	24.66	46.75	54.00	-7.25	AV
Н	7209.00	57.04	30.33	6.32	24.55	57.58	74.00	-16.42	Pk
Н	7209.00	45.20	30.33	6.32	24.55	45.74	54.00	-8.26	AV

Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			N	/liddle Ch	nannel:244	MHz	100		
V	2441.00	87.19	30.22	4.85	23.98	85.8	114.00	-28.20	Pk
V	2441.00	83.39	30.22	4.85	23.98	82	94.00	-12.00	AV
V	4882.00	56.21	30.55	5.77	24.66	56.09	74.00	-17.91	Pk
V	4882.00	47.05	30.55	5.77	24.66	46.93	54.00	-7.07	AV
V	7323.00	55.30	30.33	6.32	24.55	55.84	74.00	-18.16	Pk
V	7323.00	44.43	30.33	6.32	24.55	44.97	54.00	-9.03	AV
Н	2441.00	93.05	30.22	4.85	23.98	91.66	114.00	-22.34	Pk
Н	2441.00	90.03	30.22	4.85	23.98	88.64	94.00	-5.36	AV
Н	4882.00	58.52	30.55	5.77	24.66	58.4	74.00	-15.60	Pk
Н	4882.00	46.13	30.55	5.77	24.66	46.01	54.00	-7.99	AV
Н	7323.00	55.50	30.33	6.32	24.55	56.04	74.00	-17.96	Pk
Н	7323.00	44.63	30.33	6.32	24.55	45.17	54.00	-8.83	AV

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Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			ŀ	ligh Cha	nnel:2480N	1Hz			
V	2480.00	85.51	30.22	4.85	23.98	84.12	114.00	-29.88	Pk
V	2480.00	87.36	30.22	4.85	23.98	85.97	94.00	-8.03	AV
V	4960.00	56.89	30.55	5.77	24.66	56.77	74.00	-17.23	Pk
V	4960.00	46.76	30.55	5.77	24.66	46.64	54.00	-7.36	AV
V	7440.00	55.45	30.33	6.32	24.55	55.99	74.00	-18.01	Pk
V	7440.00	43.80	30.33	6.32	24.55	44.34	54.00	-9.66	AV
Н	2480.00	92.23	30.22	4.85	23.98	90.84	114.00	-23.16	Pk
Н	2480.00	88.72	30.22	4.85	23.98	87.33	94.00	-6.67	AV
Н	4960.00	59.07	30.55	5.77	24.66	58.95	74.00	-15.05	Pk
Н	4960.00	47.55	30.55	5.77	24.66	47.43	54.00	-6.57	AV
Н	7440.00	56.75	30.33	6.32	24.55	57.29	74.00	-16.71	Pk
Н	7440.00	45.68	30.33	6.32	24.55	46.22	54.00	-7.78	AV

Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level - Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.









Project No.: ZKT-220822L5905E-3

Page 21 of 27

5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209, 15.205 and 15.249						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.						
Test site:	Measurement	Measurement Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	Above Peak 1MHz 3MHz				Peak		
	1GHz Average 1MHz 3MHz Aver						

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
PREQUENCT (MINZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

+86-755-2233 6688

5.3 DEVIATION FROM TEST STANDARD

No deviation

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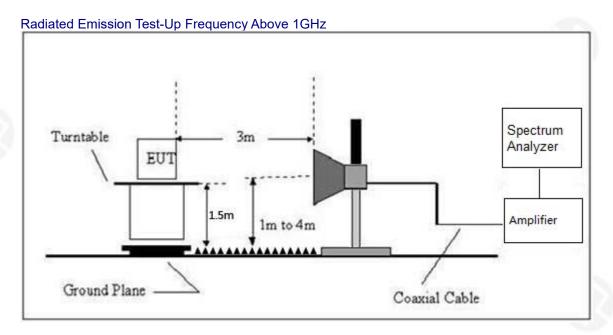








5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

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5.6 TEST RESULT

Project No.: ZKT-220822L5905E-3

Page 23 of 27

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Detec tor Type	Result
	Low Channel: 2403MHz									
	Н	2390.00	54.93	30.22	4.85	23.98	53.54	74.00	PK	PASS
	Н	2390.00	42.97	30.22	4.85	23.98	41.58	54.00	AV	PASS
163	Н	2400.00	55	30.22	4.85	23.98	53.61	74.00	PK	PASS
154	Н	2400.00	46.15	30.22	4.85	23.98	44.76	54.00	AV	PASS
	V	2390.00	55.71	30.22	4.85	23.98	54.32	74.00	PK	PASS
	V	2390.00	46.66	30.22	4.85	23.98	45.27	54.00	AV	PASS
	V	2400.00	55.24	30.22	4.85	23.98	53.85	74.00	PK	PASS
GFSK	V	2400.00	47.35	30.22	4.85	23.98	45.96	54.00	AV	PASS
GFSK	High Channel: 2480MHz									
	H	2483.50	53.31	30.22	4.85	23.98	51.92	74.00	PK	PASS
	Н	2483.50	43.31	30.22	4.85	23.98	41.92	54.00	AV	PASS
	Н	2500.00	56.91	30.22	4.85	23.98	55.52	74.00	PK	PASS
	Н	2500.00	44.84	30.22	4.85	23.98	43.45	54.00	AV	PASS
	V	2483.50	55.34	30.22	4.85	23.98	53.95	74.00	PK	PASS
	V	2483.50	45.84	30.22	4.85	23.98	44.45	54.00	AV	PASS
	V	2500.00	56.52	30.22	4.85	23.98	55.13	74.00	PK	PASS
	V	2500.00	44.99	30.22	4.85	23.98	43.6	54.00	AV	PASS

Remark:





^{1.} Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

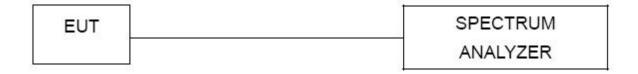




6. BANDWIDTH TEST

- 1. Set RBW = 130 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa		

Frequency (MHz)	20dB bandwidth (kHz)	99% bandwidth (kHz)	Result
2403	3329	3049.6	Pass
2441	3242	3003.3	Pass
2480	3077	2857.1	Pass

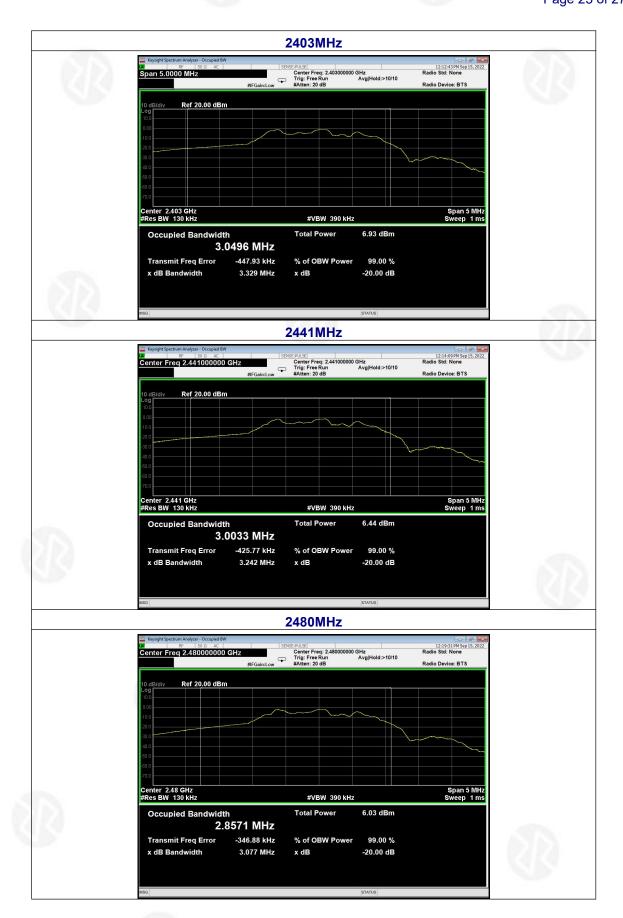
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Project No.: ZKT-220822L5905E-3

Page 26 of 27

7. ANTENNA REQUIREMENT

Standard requirement: FCC Part15.203

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.

FUT Antenna

The antenna is SMD ANT, the best case gain of the antennas is -0.61dBi, reference to the appendix II for details

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8. TEST SETUP PHOTO

Reference to the appendix Test Setup Photos for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix External Photos and Internal Photos for details.

**** END OF REPORT ****

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