

FCC TEST REPORT FCC ID:2AYAF-E300

Report Number	: ZKT-230414L2672
Date of Test	. Apr. 10, 2023 to Apr. 14, 2022
Date of issue	: Apr. 14, 2023
Total number of pages	. 29
Test Result	PASS
Testing Laboratory	Shenzhen ZKT Technology Co., Ltd.
Address	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name	Shenzhen Smartpet Technology Co., Ltd.
Address	Floor 3, B Building , No. 25, Xingda Road, Egongling Community, Pinghu Street, Longgang District, Shenzhen, China
Manufacturer's name	Shenzhen Smartpet Technology Co., Ltd.
Address	Floor 3, B Building , No. 25, Xingda Road, Egongling Community, Pinghu Street, Longgang District, Shenzhen, China
Test specification:	
Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.231 ANSI C63.10:2013
Test procedure	: /
Non-standard test method	: N/A
Test Report Form No	TRF-EL-108_V0
Test Report Form(s) Originator	ZKT Testing
Master TRF	Dated: 2020-01-06
test (EUT) is in compliance with the F identified in the report. This report shall not be reproduced e	en tested by ZKT, and the test results show that the equipment under FCC requirements. And it is applicable only to the tested sample except in full, without the written approval of ZKT, this document may al only, and shall be noted in the revision of the document.
Product name	Dog Training Collar
Trademark	
Model/Type reference	E300
Ratings	DC 3.7V Form Battery or DC 5V From USB Port
1212	

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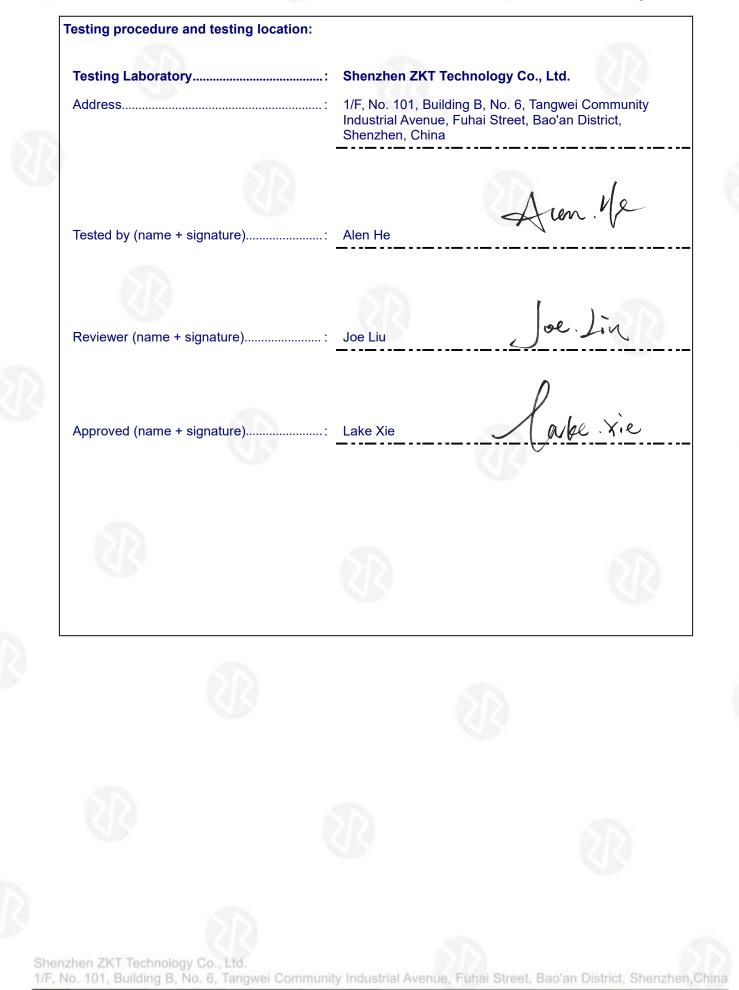




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1. VERSION

Report No.	Version	Description	Approved
ZKT-230414L2672	Rev.01	Initial issue of report	Apr. 14, 2023
5			







2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard Section Test Item		Judgment	Remark
15.207	Conducted Emission	PASS	
15.209,15.231b	Fundamental &Radiated Spurious Emission Measurement	PASS	
15.231c	20dB Occupy Bandwidth	PASS	
15.231a	Transmission time	PASS	
15.203	Antenna Requirement	PASS	22



NOTE:

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















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 CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % \circ

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





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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

	1000	-
Equipment	Dog Training Collar	
Trade Name	N/A	
Model Name	E300.	
Serial Model	N/A	
Model Difference	N/A	
Hardware version V1.0		
Software version	V1.0	-
Operation Frequency:	433.92MHz	
Modulation Type:	FSK	0
Antenna Type:	Spring Antenna	
Antenna Gain:	0dBi(Declaration by applicant)	
Ratings	DC 3.7V Form Battery or DC 5V From USB Port	







3.2 DESCRIPTION OF TEST MODES

For All Emission		
Final Test Mode Description		
Α	Keep the EUT in continuously transmitting mode	
В	Keep the EUT Normal transmitting mode	

Note:

(1) Fully-charged battery is used during the test

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

RE Spurious emissions



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	ADAPTER	N/A	5V/1A	N/A	auxiliary equipment
	212				

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 $\[$ Length $\]$ column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".







3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No).	Last calibration	Calibrated until
1	Spectrum Analyze (9kHz-26.5GHz)	KEYSIGHT	9020A	MY553708	35	Oct. 18, 2022	Oct. 17, 2023
2	Spectrum Analyze (1GHz-40GHz)	r R&S	FSQ	100363		Oct. 17, 2022	Oct. 16, 2023
3	EMI Test Receive (9kHz-7GHz)	r R&S	ESCI7	101169	1	Oct. 18, 2022	Oct. 17, 2023
4	Bilog Antenna (30MHz-1500MHz	Schwarzbeck	VULB9168	N/A	9	Oct. 17, 2022	Oct. 16, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145		Oct. 17, 2022	Oct. 16, 2023
6	Loop Antenna	TESEQ	HLA6121	58357		Oct. 17, 2022	Oct. 16, 2023
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747		Oct. 18, 2022	Oct. 17, 2023
8	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A003	15	Oct. 18, 2022	Oct. 17, 2023
9	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A		Oct. 18, 2022	Oct. 17, 2023
10	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A		Oct. 18, 2022	Oct. 17, 2023
11	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	5	Oct. 18, 2022	Oct. 17, 2023
12	ESG Signal Generator	Agilent	E4421B	N/A		Oct. 22, 2022	Oct. 21, 2023
13	Signal Generator	Agilent	N5182A	N/A		Oct. 22, 2022	Oct. 21, 2023
14	Magnetic Field Probe Tester	Narda	ELT-400	0-0344		Oct. 17, 2022	Oct. 16, 2023
15	MWRF Power Meter Test system	MW	MW100-RPCE	B N/A		Oct. 22, 2022	Oct. 21, 2023
16	D.C. Power Suppl	y LongWei	TPR-6405D	N/A		λ	< < λ
17	EMC Software	Frad	EZ-EMC	Ver.EMC-C 3A1.1	ON	٨	
18	RF Software	MW	MTS8310	V2.0.0.0		λ	λ
19	Turntable	MF	MF-7802BS	N/A		λ	١
20	Antenna tower	MF	MF-7802BS	N/A	2	λ	١
13	Signal Generator	Agilent	N5182A	N/A		Oct. 22, 2022	Oct. 21, 2023
	onduction Test equi		· · · · · · · · · · · · · · · · · · ·			·	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	La	st calibration	Calibrated until
1	LISN	R&S	ENV216	101471	0	ct. 22, 2022	Oct. 21, 2023
2	LISN	CYBERTEK	EM5040A	E185040014 9	Oct. 22, 2022		Oct. 21, 2023
3	Test Cable	N/A	C01	N/A	N/A Oct. 1		Oct. 17, 2023
4	Test Cable	N/A	C02	N/A	Oct. 18, 2022		Oct. 17, 2023
5	EMI Test Receiver	R&S	ESCI3	101393	0	ct. 17, 2022	Oct. 16, 2023
6	Absorbing Clamp	DZ	ZN23201	15034	0	ct. 17, 2022	Oct. 16, 2023
. <u> </u>							

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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
5	Test Frequency Range:	150KHz to 30MHz
U	Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

FREQUNCY (MHz)	Limit (Standard	
	Quasi-peak	Average	Stanuaru
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) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

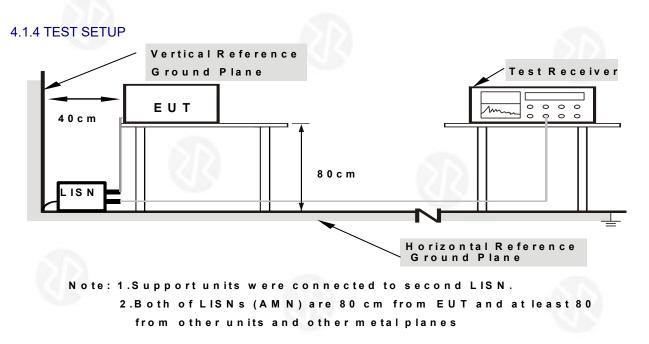




4.1.2 TEST PROCEDURE

- 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



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 continuously transmit during test. This operating condition was tested and used to collect the included data.

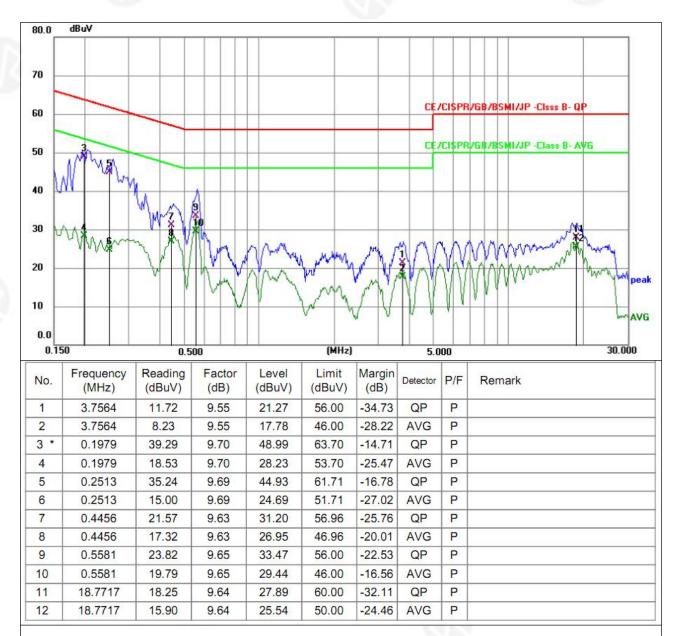
4.1.6 TEST RESULTS



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Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L1
Test Voltage :	AC 120V/60Hz	Mode :	В



Notes:

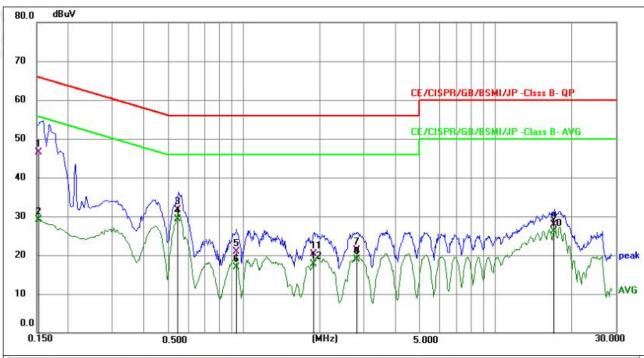
1.An initial pre-scan was performed on the line and neutral lines with peak detector.

2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission. 3.Mesurement Level = Reading level + Correct Factor





Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	Ν
Test Voltage :	AC 120V/60Hz	Mode :	В



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1528	37.01	9.52	46.53	65.85	-19.32	QP	Р	
2	0.1528	19.51	9.52	29.03	55.85	-26.82	AVG	P	
3	0.5435	22.06	9.64	31.70	56.00	-24.30	QP	P	
4 *	0.5435	19.63	9.64	29.27	46.00	-16.73	AVG	P	
5	0.9317	11.34	9.57	20.91	56.00	-35.09	QP	Р	
6	0.9317	7.37	9.57	16.94	46.00	-29.06	AVG	P	
7	2.8209	11.65	9.64	21.29	56.00	-34.71	QP	P	
8	2.8209	9.25	9.64	18.89	46.00	-27.11	AVG	P	
9	17.1743	18.15	9.69	27.84	60.00	-32.16	QP	P	
10	17.1743	16.44	9.69	26.13	50.00	-23.87	AVG	P	
11	1.8919	10.59	9.70	20.29	56.00	-35.71	QP	P	
12	1.8919	8.08	9.70	17.78	46.00	-28.22	AVG	Р	

Notes:

1.An initial pre-scan was performed on the line and neutral lines with peak detector.2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.3.Mesurement Level = Reading level + Correct Factor





4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	9kHz to 25GHz						
Test site:	Measurement Dista	nce: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak		
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
		Peak	1MHz	10Hz	Average		

4.2.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.231(b) limit in the table below has to be followed.

Frequencies(MHz)	Field Strength(micorvolts/meter)	Measurement Distance(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

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
FREQUENCE (MIDZ)	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).

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FUNDAMENTAL AND HARMONICS EMISSION LIMITS

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)	
40.66 - 40.70	2,250	225	
70 - 130	1,250	125	
130 - 174	1,250 to 3,750 **	125 to 375 **	
174 - 260	3,750	375	
260 - 470	3,750 to 12,500 **	375 to 1,250 **	
Above 470	12,500	1,250	

** 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.]

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW setting	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. 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 open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; 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.

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- 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.

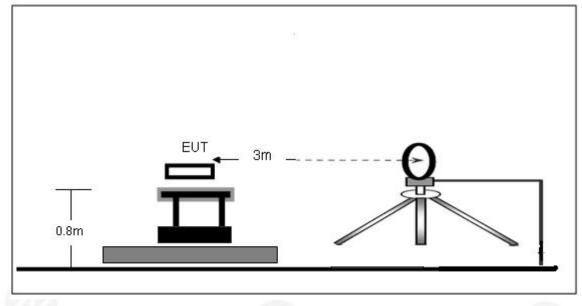
Note:

Both horizontal and vertical antenna polarities were tested

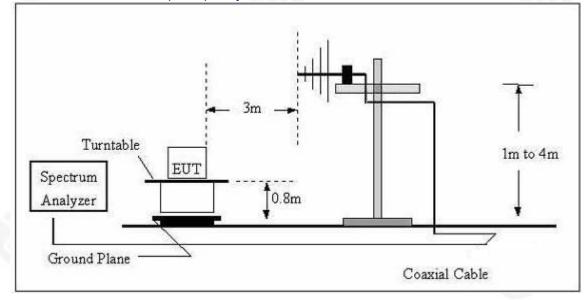
and performed pretest to three orthogonal axis. The worst case was X axis and the emissions were reported

4.2.3 TEST SETUP

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

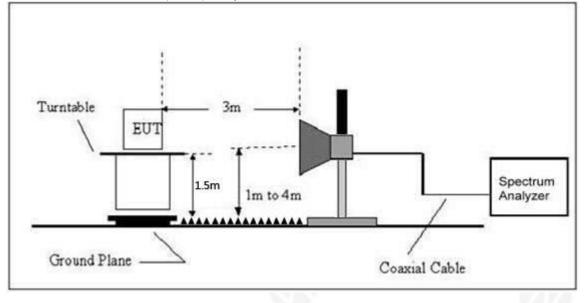


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



4.2.4 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.

4.2.5 TEST RESULTS

Radiated Spurious Emission (Below 9KHz - 30MHz)

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	
Test Voltage :	DC 3.7V		212
Test Mode :	A		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
	1212-			PASS
	_		4.4.	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.

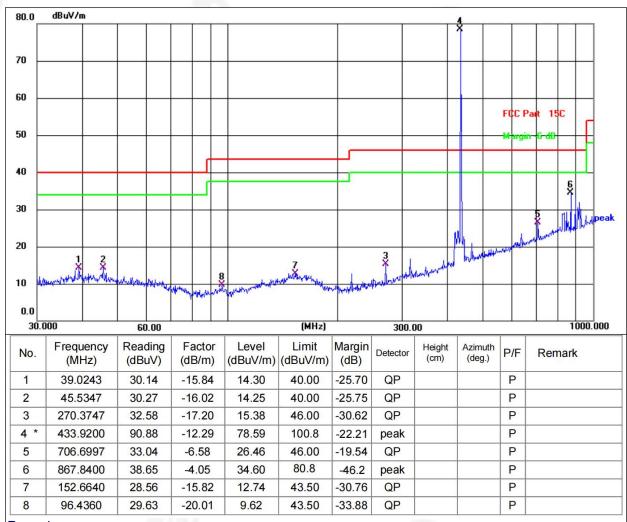






Radiated Spurious Emission (Between 30MHz - 1GHz)

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Horizontal
Test Voltage :	DC 3.7V		
Test Mode :	A		



Remarks:

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor2.The emission levels of other frequencies are very lower than the limit and not show in test report.

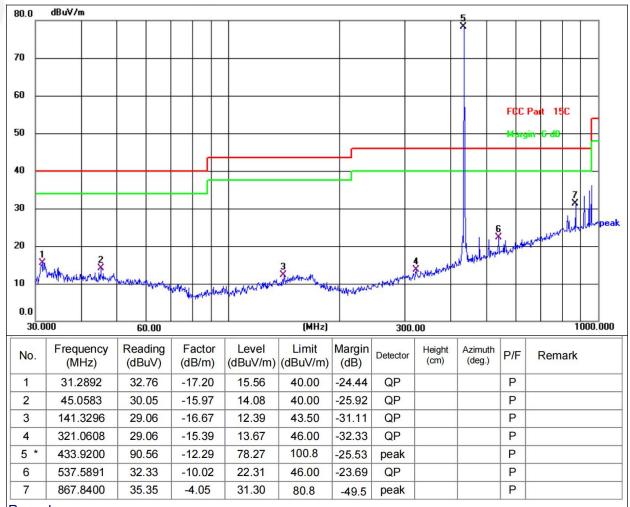








Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Vertical
Test Voltage :	DC 3.7V		G.
Test Mode :	A		



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.









For average Emission

Freedoment	Peak	Duty	AverageLev			
Frequency	Level	cycle	el	Limit	Margin	Polarization
MHz	dBuV/m	factor	dBuV/m	AV		
433.92	78.59	0	78.59	80.8	-2.21	Horizontal
867.84	34.60	0	34.60	60.8	-26.2	Horizontal

Notes: 1. Average emission Level = Peak Level + Duty cycle factor 2.Duty cycle level please see clause 5.

Frequency MHz	Peak Level dBuV/m	Duty cycle factor	AverageLevel dBuV/m	Limit AV	Margin	Polarization
433.92	78.27	0	78.27	80.8	-2.53	Vertical
867.84	31.30	0	31.30	60.8	-29.5	Vertical

Notes: 1. Average emission Level = Peak Level + Duty cycle factor 2. Duty cycle level please see clause 5.



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Freeseware	Receiver	Detector	Turn	RX An	tenna	Corrected	Corrected	FCC Part	15.231
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
1816.80	49.59	PK	8	1.9	Н	-14.38	35.21	74.00	-38.79
1816.80	49.56	PK	274	1.5	V	-14.38	35.18	74.00	-38.82
2725.20	47.52	PK	261	1.3	Н	-12.87	34.65	74.00	-39.35
2725.20	47.16	PK	169	1.6	V	-12.87	34.29	74.00	-39.71

F	DK	Turn	RX Antenna		Duty	-	-	-			-	-		-	-	-	-	_		A)/	FCC Part	15.231
Frequency	PK	table Angle	Height	Polar	cycle Factor	AV	Limit	Margin														
(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)														
1816.80	35.21	79	1.9	Н	0.00	35.21	54.00	-18.79														
1816.80	35.18	316	1.5	V	0.00	35.18	54.00	-18.82														
2725.20	34.65	325	1.3	Н	0.00	34.65	54.00	-19.35														
2725.20	34.29	159	1.6	V	0.00	34.29	54.00	-19.71														

Notes: 1.Average emission Level = Peak Level + Duty cycle factor 2.Duty cycle level please see clause 6.





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

According to FCC 15.231(c) requirement:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating between 70 MHz to 900 MHz. Those devices operating above 900 MHz, the emission spurious shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

B.W (20dBc) Limit = 0.25% * f(MHz) = 0.25% * 433.92MHz = 1.0848MHz

Setting
Auto
> Measurement Bandwidth or Channel Separation
1-5%OBW
≥RBW
Peak
Max Hold
Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 1-5%OBW, VBW≥ RBW, Sweep time = Auto.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION 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.





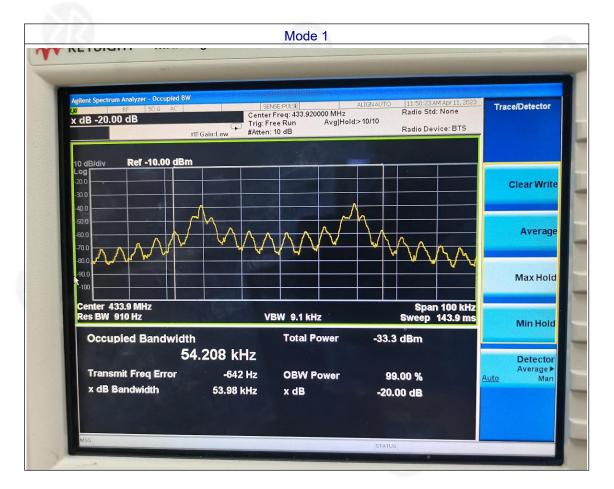




5.6 TEST RESULTS

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.7V
Test Mode :	A		

Frequ	iency	20dB Bandwidth (kHz)	Limit (MHz)	Result
433.92	2MHz	53.98	1.0848	PASS







6. CALCULATION OF AVERAGE FACTOR

The output field strengths of specification in accordance with the FCC rules specify measurements with an average detector. During the test, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The duty cycle is measured in 100 ms or the repetition cycle period, whichever is a shorter time frame. The duty cycle is measured by placing the spectrum analyzer to set zero span at 100kHz resolution bandwidth. Averaging factor in dB =20log (duty cycle)

The duration of one cycle =380ms

The duty cycle is simply the on-time divided the duration of one cycle

Duty Cycle = 380

=380ms / 380ms

=1

Therefore, the averaging factor is found by 20log1= 0dB

Test plot as follows:

Note: During the 100ms, the amount of pulse and on-time of pulse are the same for every pulse train.

Cycle(Normal Operation)

Marker 1234 M PNNNN #Avg Type: RMS Avg|Hold: 65/100 Δ 380.000 m NO: Wide Trig: Free Run Gain: Low Atten: 10 dB Select Marke ∆Mkr1 380.0 ms 0.025 dE Ref 0.00 dBm Norm Delta ♦1∆2 Fixed Of Properties #VBW 300 kHz Sweep 1.000 s (100





7.1 APPLICABLE STANDARD

According to FCC 15.231(a) requirement:

A manually operated transmitter shall employ a switch that will automatically deactivate the

transmitter within not more than 5 seconds of being released.

7.2 TEST PROCEDURE

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

1.Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

2.Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

3.Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

4. Repeat above procedures until all measured frequencies were complete.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION 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.

Shenzhen ZKT Technology Co., Ltd. 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China





7.6 TEST RESULTS

	and the second se	
Transmission time	Limit (second)	Result
380ms	<5s	Pass

Test plot as follows:

+86-400-000-9970

1



+86-755-2233 6688







EUT Antenna:		he use of a standard antenna jack or electrical connector is prohibited.			
The antenna is S _l details	Spring Antenna , the best case gain of the antennas are 0dBi, reference to the appendix I				







9. TEST SETUP PHOTO

Reference to the appendix I for details.

10. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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

