

FCC REPORT

Applicant: Shenzhen Coosea Group Company Limited

Address of Applicant: 9-10th Floor, Tower 1, Foresea Life Center, Xingye Road,
Bao'an District, Shenzhen City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name: ZEEKER T100

Model No.: ZEEKER T100

Trade mark: ZEEKER

FCC ID: 2A2GN-T100

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.209

Date of sample receipt: 23 Nov., 2021

Date of Test: 24 Nov., to 23 Dec., 2021

Date of report issue: 30 Dec., 2021

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	30 Dec., 2021	Original

Tested By:

Tanet Wei
Test Engineer

Date:

30 Dec., 2021

Reviewed By:

Winner Zhang
Project Engineer

Date:

30 Dec., 2021

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4 Test Summary

Test Item	Section in CFR 47	Result
Spurious emissions	15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Conducted Emission	15.207	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).		
Test Method:	ANSI C63.4-2014 ANSI C63.10-2013	

5 General Information

5.1 Client Information

Applicant:	Shenzhen Coosea Group Company Limited
Address:	9-10th Floor, Tower 1, Foresea Life Center, Xingye Road, Bao'an District, Shenzhen City, Guangdong Province, China
Manufacturer/ Factory:	Sichuan Koobee Communication Equipment Co., Ltd.
Address:	3 Floor, Building 2, 69 Gangyuan Road West Section, Lingang Development Zone, Yibin City, Sichuan Province, China

5.2 General Description of E.U.T.

Product Name:	ZEEKER T100
Model No.:	ZEEKER T100
Operation Frequency:	112.30kHz~203.00kHz
Modulation type:	ASK
Antenna Type:	Coil Antenna
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Power supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 5900mAh
AC adapter:	Model: UF22P03 Input: AC100-240V, 50/60Hz, 0.5A Output: DC 5.0V, 3.0A or DC 9.0V, 2.0A or DC 12.0V, 1.5A

5.3 Test mode and test samples plans

Transmitting mode:	Keep the EUT in transmitting mode with modulation
Test Samples Plans:	
Samples Number	Used for Test Items
1#	Conducted measurements test method
2#	Radiated measurements test method
3#	EUT constructional details
<i>Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</i>	

5.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Skytek	Wireless charging match load	N/A	N/A	N/A
Shenzhen HengChangshengding Electronics Co., Ltd.	Adapter	HCSD-12650100	N/A	N/A

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

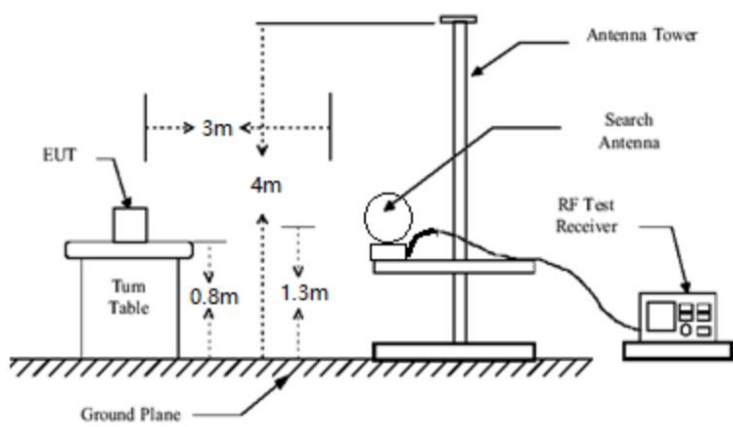
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	03-18-2021	03-17-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
ISN	Schwarzbeck	CAT3 8158	#96	03-03-2021	03-02-2022
ISN	Schwarzbeck	CAT5 8158	#166	03-03-2021	03-02-2022
ISN	Schwarzbeck	NTFM 8158	#126	03-03-2021	03-02-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

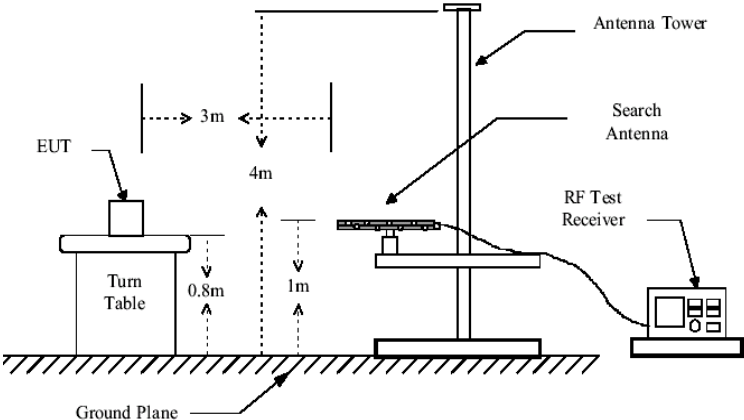
6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
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.	
E.U.T Antenna:	
The EUT make use of an Induction coil antenna.	

6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209				
Test Frequency Range:	9kHz to 1000MHz				
Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	600Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Limit:	Frequency (MHz)		Limit (uV/m @3m)		Distance (m)
	0.009-0.490		2400/F(kHz)		300
	0.490-1.705		24000/F(kHz)		30
	1.705-30		30		30
	30-88		100		3
	88-216		150		3
	216-960		200		3
	Above 1GHz		500		3
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>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.</p> <p>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.</p> <p>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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p>				
Test setup:	<p>9kHz-30MHz</p> <div></div> <p>30MHz-1GHz</p>				

	 <p>The diagram illustrates the test setup. An EUT (Electromagnetic Under Test) is placed on a Turn Table at a height of 0.8m from the Ground Plane. A Search Antenna is mounted on an Antenna Tower at a height of 1m from the Ground Plane. The horizontal distance between the EUT and the Search Antenna is 3m. The vertical distance between the EUT and the Search Antenna is 4m. An RF Test Receiver is connected to the Search Antenna.</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass
Remark:	The emission levels of above 1 GHz are lower than the limit 20dB and not show in test report.

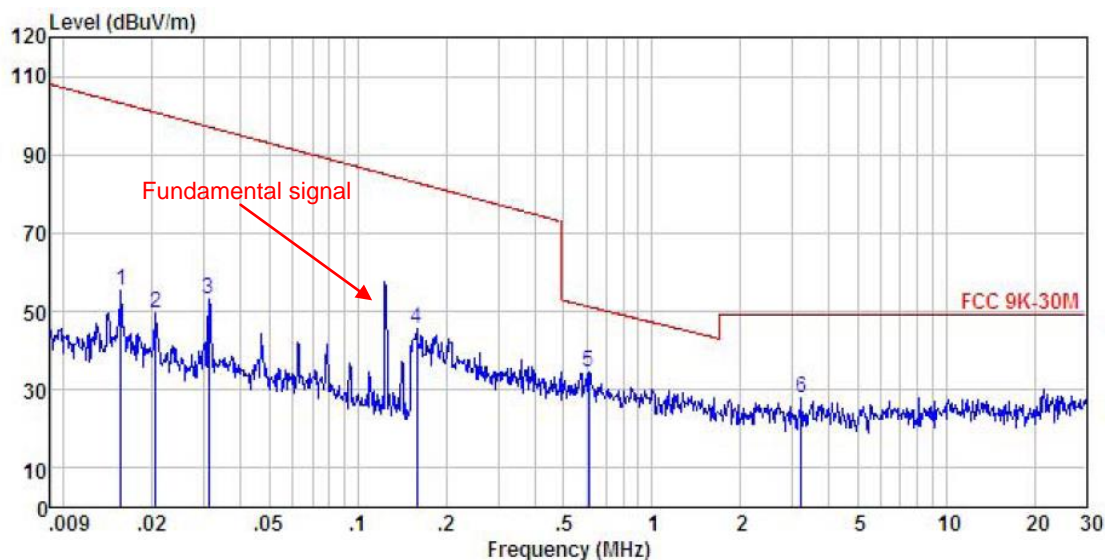
Measurement Data:
a) Fundamental field strength

Peak value				
Test Polarization	Frequency (kHz)	H-field@3m (dBμV)	Limit@3m (dBμV)	Result
Horizontal	157.65	65.56	83.65	Pass
Vertical	157.65	59.80	83.65	Pass
Average value				
Test Polarization	Frequency (kHz)	H-field@3m (dBμV)	Limit@3m (dBμV)	Result
Horizontal	157.65	51.62	63.65	Pass
Vertical	157.65	47.85	63.65	Pass

b) Radiated spurious:

Below 1GHz:

Product Name:	ZEEKER T100	Product Model:	ZEEKER T100
Test By:	Janet	Test mode:	Charing mode
Test Frequency:	9kHz~30MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24℃ Humi.: 57%

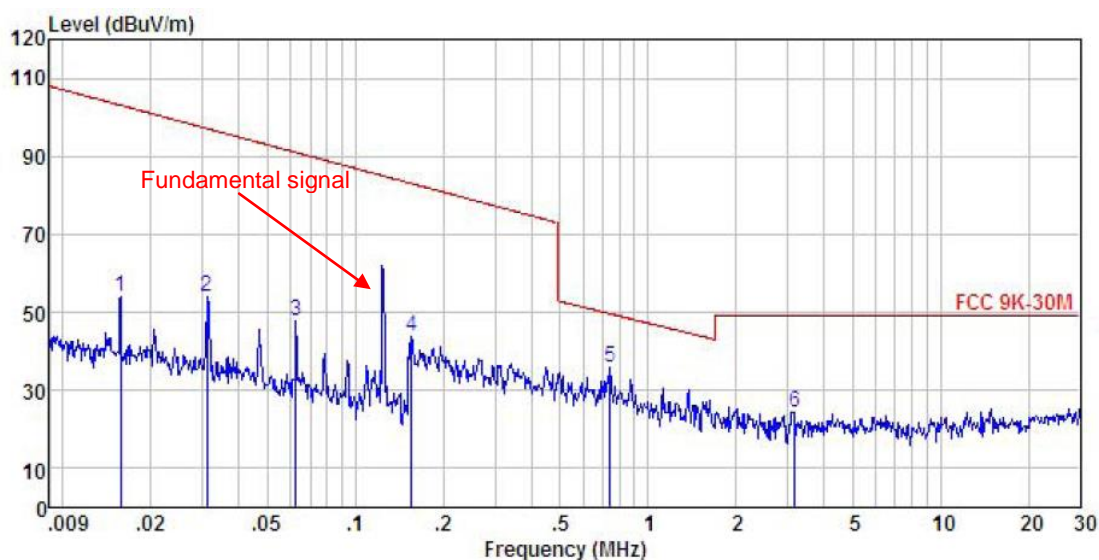


	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	Limit	
		dBuV	dB/m	dB	dB			dB	
1	0.016	29.78	-25.86	0.05	0.00	55.47	103.17	-47.70	Peak
2	0.021	23.92	-25.90	0.06	0.00	49.58	100.76	-51.18	Peak
3	0.031	27.42	-25.95	0.12	0.00	53.09	97.13	-44.04	Peak
4	0.159	19.94	-26.17	0.28	0.00	45.55	82.86	-37.31	Peak
5	0.611	8.85	-26.30	0.52	0.00	34.57	51.23	-16.66	Peak
6	3.224	2.15	-26.55	0.66	0.00	27.76	49.00	-21.24	Peak

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	ZEEKER T100	Product Model:	ZEEKER T100
Test By:	Janet	Test mode:	Charing mode
Test Frequency:	9kHz~30MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24℃ Humi.: 57%

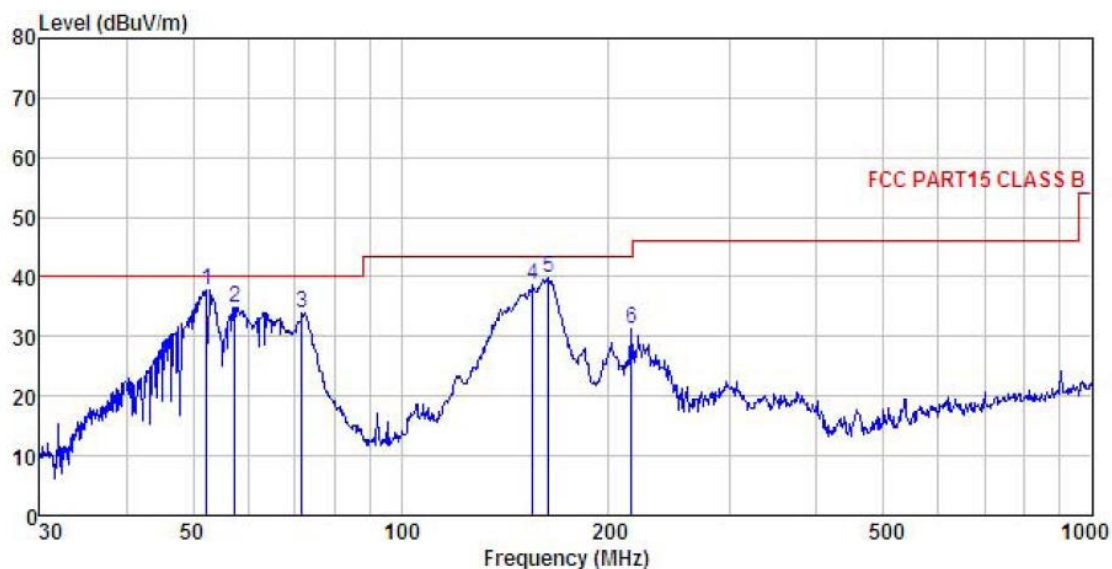


	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.016	28.48	-25.87	0.05	0.00	54.16	103.10	-48.94	Peak
2	0.031	28.21	-25.95	0.12	0.00	53.88	97.13	-43.25	Peak
3	0.063	22.09	-26.03	0.19	0.00	47.75	91.02	-43.27	Peak
4	0.155	18.15	-26.16	0.28	0.00	43.77	83.07	-39.30	Peak
5	0.742	10.02	-26.30	0.57	0.00	35.79	49.67	-13.88	Peak
6	3.172	-1.07	-26.55	0.66	0.00	24.54	49.00	-24.46	Peak

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	ZEEKER T100	Product Model:	ZEEKER T100
Test By:	Janet	Test mode:	Charing mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

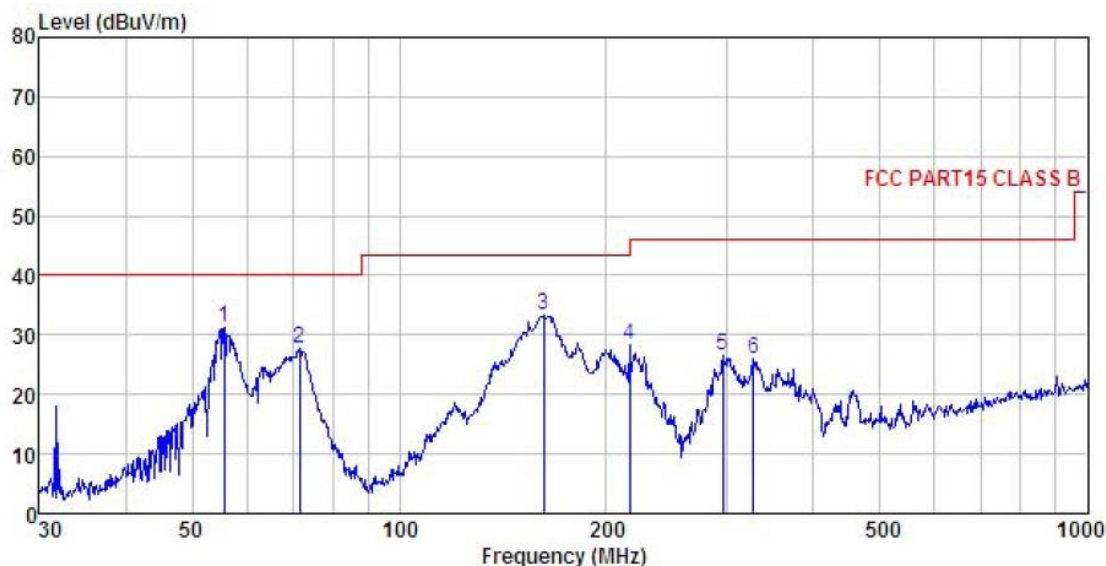


	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
		dBuA	dB/m	dB	dB	dBuA/m	dBuA/m	dB
1	52.391	52.75	13.66	1.29	29.81	37.89	40.00	-2.11 QP
2	57.392	50.57	12.81	1.37	29.79	34.96	40.00	-5.04 QP
3	71.832	53.33	8.91	1.56	29.71	34.09	40.00	-5.91 QP
4	155.364	56.29	8.87	2.55	29.17	38.54	43.50	-4.96 QP
5	163.755	56.99	9.21	2.62	29.10	39.72	43.50	-3.78 QP
6	215.268	45.14	12.09	2.85	28.73	31.35	43.50	-12.15 QP

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	ZEEKER T100	Product Model:	ZEEKER T100
Test By:	Janet	Test mode:	Charing mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

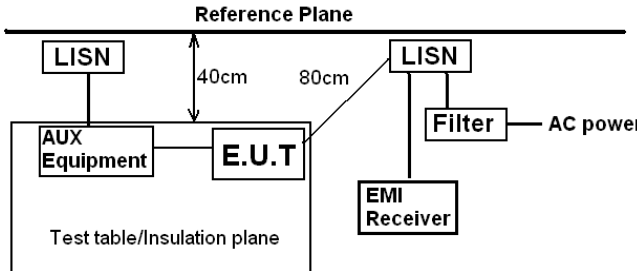


	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit	
	MHz	dBuA	dB/m	dB	dB	dBuA/m	dBuA/m	dB
1	55.609	46.48	13.11	1.36	29.80	31.15	40.00	-8.85 QP
2	71.581	47.02	8.93	1.56	29.71	27.80	40.00	-12.20 QP
3	162.041	50.65	9.16	2.60	29.12	33.29	43.50	-10.21 QP
4	216.024	42.14	12.12	2.85	28.73	28.38	46.00	-17.62 QP
5	295.147	38.43	13.57	2.93	28.46	26.47	46.00	-19.53 QP
6	326.740	37.28	14.15	3.02	28.51	25.94	46.00	-20.06 QP

Remark:

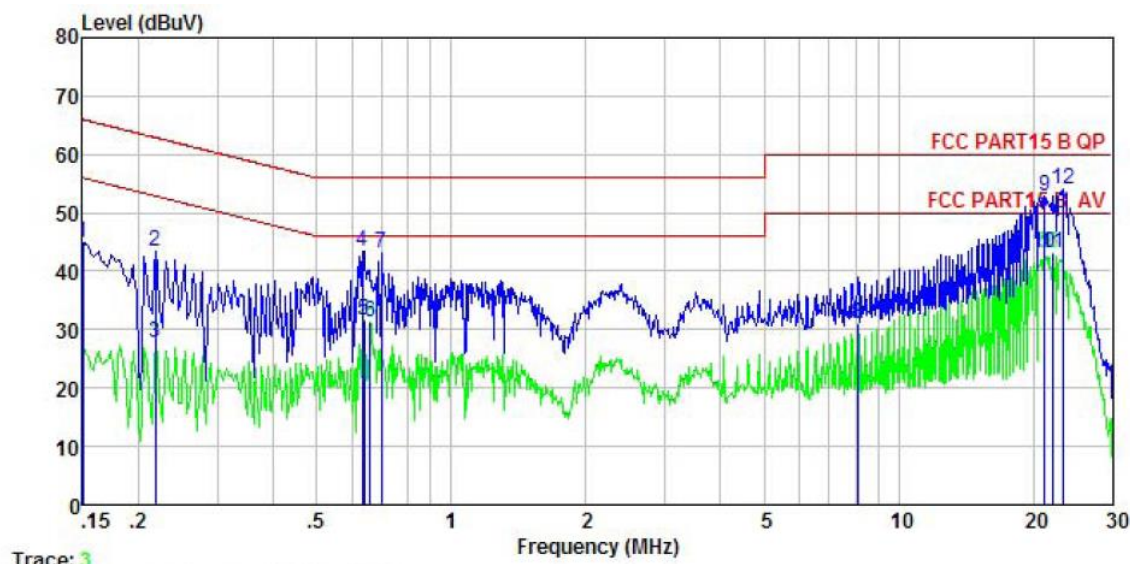
1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

6.3 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.207						
Test Frequency Range:	150kHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Limit (dBμV)					
		Quasi-peak		Average			
		0.15-0.5		66 to 56*		56 to 46*	
		0.5-5		56		46	
	0.5-30		60		50		
* Decreases with the logarithm of the frequency.							
Test setup:	<div><p style="text-align: center;">Reference Plane</p><p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>						
Test procedure	<div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</div><div>3. 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.</div></div>						
Test environment:	Temp.:	23 °C	Humid.:	56%	Press.:	101kPa	
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

Measurement data:

Product name:	ZEEKER T100	Product Model:	ZEEKER T100
Test by:	Janet	Test mode:	Charing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp.: 22.5°C Humi.: 55%

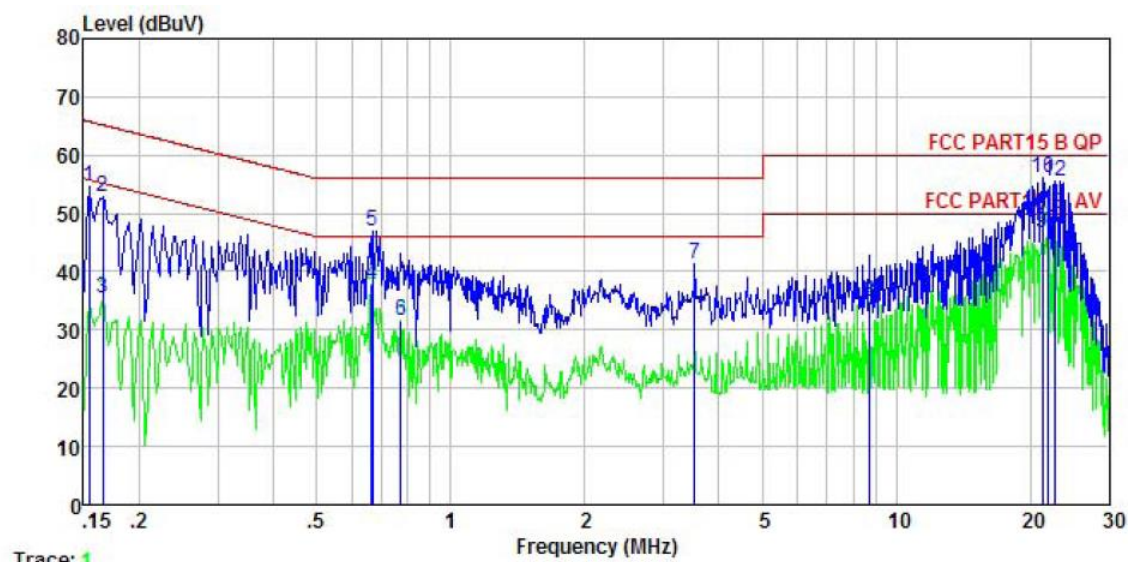


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	34.02	0.18	10.78	44.98	66.00	-21.02	QP
2	0.219	32.59	0.15	10.76	43.50	62.88	-19.38	QP
3	0.219	16.82	0.15	10.76	27.73	52.88	-25.15	Average
4	0.634	32.64	0.13	10.77	43.54	56.00	-12.46	QP
5	0.637	20.83	0.13	10.77	31.73	46.00	-14.27	Average
6	0.658	20.33	0.13	10.77	31.23	46.00	-14.77	Average
7	0.697	32.26	0.13	10.77	43.16	56.00	-12.84	QP
8	8.105	19.99	0.28	10.86	31.13	50.00	-18.87	Average
9	21.147	41.78	0.29	10.91	52.98	60.00	-7.02	QP
10	21.147	31.83	0.29	10.91	43.03	50.00	-6.97	Average
11	22.180	31.86	0.30	10.90	43.06	50.00	-6.94	Average
12	23.263	42.83	0.32	10.89	54.04	60.00	-5.96	QP

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. Final Level=Receiver Read level + LISN Factor + Cable Loss.

Product name:	ZEEKER T100	Product Model:	ZEEKER T100
Test by:	Janet	Test mode:	Charing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp.: 22.5°C Humi.: 55%

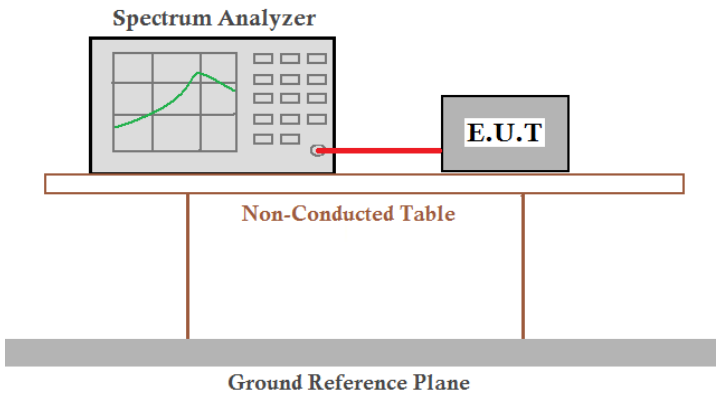


	Read	LISN	Cable		Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	42.94	0.98	10.78	54.70	65.78	-11.08 QP
2	0.166	40.96	0.97	10.77	52.70	65.16	-12.46 QP
3	0.166	23.61	0.97	10.77	35.35	55.16	-19.81 Average
4	0.665	26.11	0.97	10.77	37.85	46.00	-8.15 Average
5	0.668	35.24	0.97	10.77	46.98	56.00	-9.02 QP
6	0.771	19.73	0.97	10.80	31.50	46.00	-14.50 Average
7	3.528	29.29	1.00	10.90	41.19	56.00	-14.81 QP
8	8.729	23.07	1.02	10.89	34.98	50.00	-15.02 Average
9	21.260	35.11	0.68	10.91	46.70	50.00	-3.30 Average
10	21.373	44.49	0.68	10.91	56.08	60.00	-3.92 QP
11	21.830	36.01	0.68	10.91	47.60	50.00	-2.40 Average
12	22.655	43.97	0.68	10.90	55.55	60.00	-4.45 QP

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. Final Level = Receiver Read level + LISN Factor + Cable Loss.

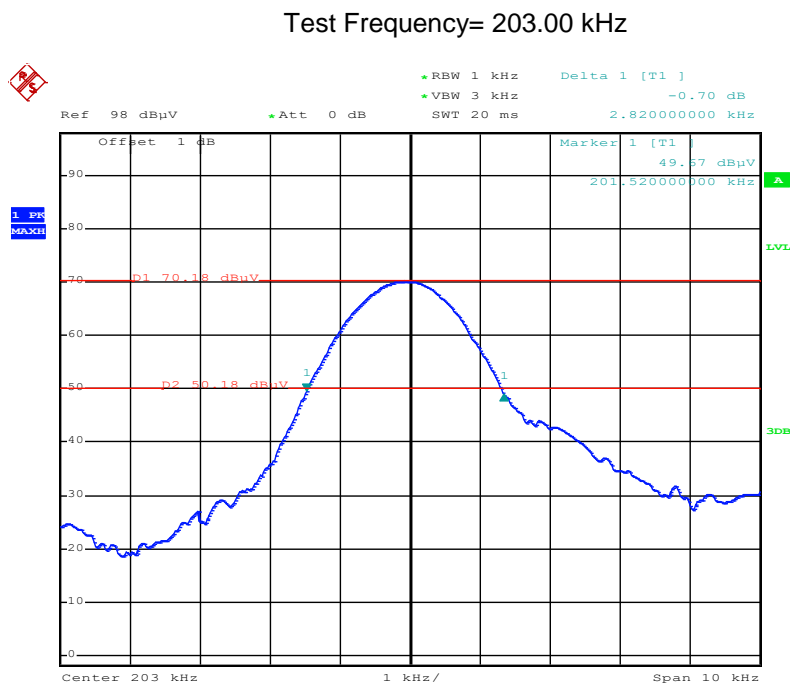
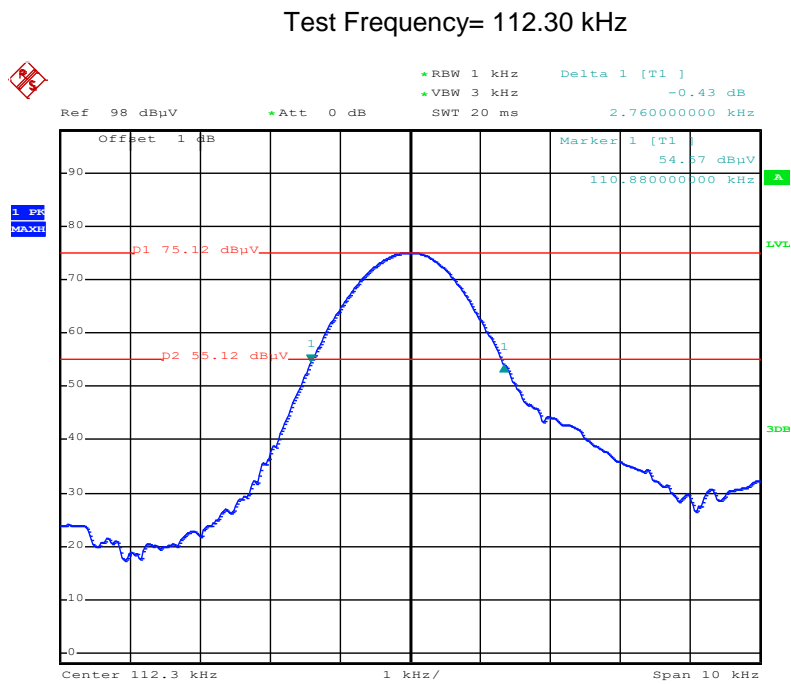
6.4 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak
Limit:	The fundamentele mission be kept within at least the central 80% of the permitted band
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

20dB bandwidth (kHz)	Limits
2.76	N/A
2.82	
Remark: For report purpose only.	

Test plot as follows:



8 EUT Constructional Photos

Reference to the test report No.: JYTSZB-R12-2102611.

-----End of report-----