

TEST REPORT

FCC ID: 2APJ5-0308

Product: YiDou Translator

Model No.: ET-YiDou 0308

Additional Model No.: N/A

Trade Mark: easyto

Report No.: TCT180328E032

Issued Date: May 11, 2018

Issued for:

Easyto(Beijing)TechnologyCo., Ltd
1904 room, Building #3, Jiuxianqiao Road #4, Chaoyang District, Beijing,
China

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Report No.: TCT180328E032

Product:	YiDou Translator
Model No.:	ET-YiDou 0308
Additional Model:	N/A
Trade Mark:	easyto
Applicant:	Easyto(Beijing)TechnologyCo., Ltd
Address:	1904 room, Building #3, Jiuxianqiao Road #4, Chaoyang District, Beijing, China
Manufacturer:	Easyto(Beijing)TechnologyCo., Ltd
Address:	1904 room, Building #3, Jiuxianqiao Road #4, Chaoyang District, Beijing, China
Date of Test:	Mar. 29, 2018 – May 10, 2018
Applicable Standards:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part24 FCC CFR Title 47 Part27

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Brens Xu	Date:	May 10, 2018
	Brews Xu		
Reviewed By:	Benyl where	Date:	May 11, 2018
3	Beryl Zhao		(0)
Approved By:	fons m	Date:	May 11, 2018
	Tomsin		



2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§2.1046; §24.232(c); §27.50(h);	PASS
Peak-to-Average Ratio	§24.232(d);	PASS
Effective Radiated Power	§2.1046; §27.50(d)(4);	PASS
Equivalent Isotropic Radiated Power	§2.1046; §27.50(d);	PASS
Occupied Bandwidth	§2.1049; §24.238(b); §27.53(h)(3); §27.53(m)(6);	PASS
Band Edge	§2.1051; §27.53(g); §27.53(g); §24.238(a);	PASS
Conducted Spurious Emission	§2.1051; §27.53(h); §24.238(a);	PASS
Field Strength of Spurious Radiation	§2.1053; §27.53(g); §27.53(h); §24.238(a);	PASS
Frequency Stability for Temperature & Voltage	§2.1055;§27.54; §24.235;	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. EUT Description

Product:	YiDou Translator
Model No.:	ET-YiDou 0308
Additional Model:	N/A
Trade Mark:	easyto
Hardware Version:	1.0
Software Version:	ET-YiDou_0308_V1.01.000
Tx Frequency:	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 41: 2496 MHz ~ 2690 MHz
Rx Frequency:	LTE Band 2: 1930MHz ~ 1990 MHz LTE Band 7: 2620MHz ~ 2690 MHz LTE Band 41: 2496 MHz ~ 2690 MHz
Bandwidth:	LTE Band 2: 1.4MHz /3MHz /5MHz /10MHz /15MHz / 20MHz LTE Band 7: 5MHz /10MHz /15MHz / 20MHz LTE Band 41: 5MHz /10MHz /15MHz / 20MHz
Maximum Output Power to Antenna:	LTE Band 2: 23.09dBm LTE Band 7: 24.13dBm LTE Band 41: 24.25dBm
Hardware Version: 1.0	
Type of Modulation:	QPSK / 16QAM
Antenna Type:	Internal Antenna
Antenna Gain:	
Power Supply:	Rechargeable Li-ion Battery DC 3.8V
to Antenna: 99% Occupied Bandwidth: Type of Modulation: Antenna Type: Antenna Gain:	LTE Band 7: 24.13dBm LTE Band 41: 24.25dBm LTE Band 2: 17M89W7D LTE Band 7: 17M95G7D LTE Band 41: 17M93G7D QPSK / 16QAM Internal Antenna LTE Band 2: -1.8 dBi LTE Band 7: -3 dBi LTE Band 41: -3 dBi



Emission Designator

rooigilato.					
QPSK		16QAM			
Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)		
1.4 1M08G7D		1M08W7D	0.1574		
2M69G7D	0.1914	2M68W7D	0.1563		
4M49G7D	0.2037	4M49W7D	0.1667		
8M94G7D	0.1919	8M93W7D	0.1574		
13M43G7D	0.1932	13M41W7D	0.1592		
17M87G7D	0.1991	17M89W7D	0.1592		
QPSK		16QAM			
Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)		
4M49G7D	0.2128	4M49W7D	0.1786		
8M97G7D	0.2234	8M95W7D	0.1959		
13M49G7D	0.2495	13M45W7D	0.2148		
17M95G7D	0.2588	17M91W7D	0.2244		
QPSK		16QAM			
Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)		
4M50G7D	0.2553	4M48W7D	0.2080		
8M95G7D	0.2606	8M96W7D	0.2265		
13M46G7D	0.2606	13M43W7D	0.2244		
17M93G7D	0.2661	17M88W7D	0.2291		
	Emission Designator (99%OBW) 1M08G7D 2M69G7D 4M49G7D 8M94G7D 13M43G7D 17M87G7D QPSK Emission Designator (99%OBW) 4M49G7D 13M49G7D 17M95G7D QPSK Emission Designator (99%OBW) 13M49G7D 13M49G7D 13M49G7D 13M49G7D 13M49G7D 13M49G7D 13M49G7D 13M49G7D	Care Care	QPSK 16QAM Emission Designator (99%OBW) Maximum EIRP(W) Emission Designator (99%OBW) 1M08G7D 0.1977 1M08W7D 2M69G7D 0.1914 2M68W7D 4M49G7D 0.2037 4M49W7D 8M94G7D 0.1919 8M93W7D 13M43G7D 0.1932 13M41W7D 17M87G7D 0.1991 17M89W7D QPSK 16QAM Emission Designator (99%OBW) Emission Designator (99%OBW) 4M49G7D 0.2128 4M49W7D 8M97G7D 0.2234 8M95W7D 13M49G7D 0.2495 13M45W7D 17M95G7D 0.2588 17M91W7D QPSK 16QAM Emission Designator (99%OBW) Emission Designator (99%OBW) 4M50G7D 0.2553 4M48W7D 8M95G7D 0.2606 8M96W7D 13M46G7D 0.2606 13M43W7D		



4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m 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 are shown in Test Results of the following pages.



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 escription Operation	n Frequency					
LTE Band	2(1.4MHz)	LTE Band	l 2(1.4MHz)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)			
18607	1850.7	18615	1851.5			
18900	1880	18900	1880			
19193	1909.3	19185	1908.5			
LTE Ban	d 2(5MHz)	LTE Band	d 2(10MHz)			
Channel	Frequency (MHz)	requency (MHz) Channel Frequency 1852.5 18650 1855				
18625	1852.5					
18900	1880	18900	1880			
19175	1907.5	19150	1905			
LTE Band	I 2(15MHz)	LTE Band	d 2(20MHz)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)			
18675	1857.5	18700	1860			
18900	1880	18900	1880			
19125	1902.5	19100	1900			

LTE Band	l 7(5MHz)	LTE Band	l 7(10MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)					
20775	2502.5	20800	2505					
21100	2535	21100	2535					
21425	2567.5	21400	2565					
LTE Band	7(15MHz)	LTE Band 7(20MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)					
20825	2507.5	20850	2510					
21100	2535	21100	2535					
21375	2562.5	21350 2560						

LTE Band	41(5MHz)	LTE Band	41(10MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)					
40065	2537.5	40090 2540						
40620	2593	40620	2593					
41166	2647.6	41141	2645.1					
LTE Band 4	1(15MHz)	LTE Band	41(20MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)					
40115	2542.5	40140	2545					
40620	2593	40620	2593					
41115	2642.5	41091	2640.1					



4.2. Test Mode

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Mode											
Band	Radiated TCs	Conducted TCs									
LTE Band 2	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)									
LTE Band 7	QPSK Link (5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (5MHz / 10MHz / 15MHz / 20MHz)									
LTE Band 41	QPSK Link (5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (5MHz / 10MHz / 15MHz / 20MHz)									

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Test Items	Band		В	andwic	th (MF	lz)		Mod	ulation	RB#			Tes	Test Channel		
	Danu	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н	
	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
Max. Output	7			v	v	٧	v	v	v	v	v	v	v	v	v	
Power	41			v	v	v	V	v	v	v	v	v	v	v	v	
	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
Peak-to-Average	7			V	v	v	v	v	V	v	v	v	٧	v	v	
Ratio	41			v	v	ν	v	v	y	v	v	v	V	v	v	
26dB and 99%	2	v	v	v	v	v	v	v	v			v	V	v	v	
Bandwidth	7			v	v	v	v	v	v			v	v	v	v	
	41	$\mathcal{O}()$		v	v	v	v	v	v		(C)	v	v	v	v	

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Tast Hames	Don's				dth (MF	lz)		Mod	ulation		RB#		Test Channel		
Test Items Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н	
	2	٧	v	v	v	V	v	v	v	٧		v	v		v
Conducted	7			v	v	v	v	v	v	v		v	v		v
Band Edge	41			V	v	v	v	v	٧	v		v	V		٧
	2	v	v	V	v	v	v	v	v	v			v	v	٧
Conducted Spurious	7			v	v	v	V	v	v	٧			V	V	V
Emission	41			v	v	V	V	v	v	٧			v	v	V
	2				v			v	v			v		v	
Frequency	7				v			v	v			v		v	
Stability	41			Z.O	v			v	٧			v		v	
	2	v	v	V	v	v	v	v	v	v	v	v	V	v	١
E.R.P./ E.I.R.P.	7			v	v	v	v	v	v	v	v	v	v	v	
	41			v	v	v	v	v	v	V	v	v	v	v	ν
Radiated	2	U _v))	v	v	V			v	v	V
Spurious	7	v						v	v	V			v	V	v
Emission	41	v						v	v	v			v	v	v
Note									chosen fo		ing	(

4.3. 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

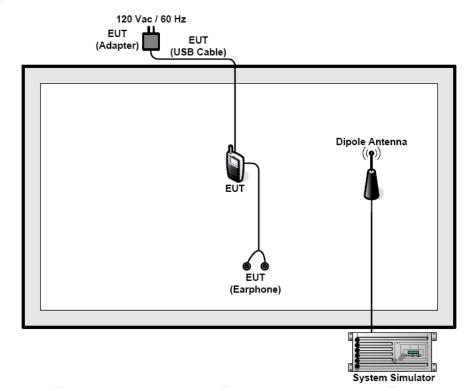
Note:

- 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.



4.4. Configuration of Tested System

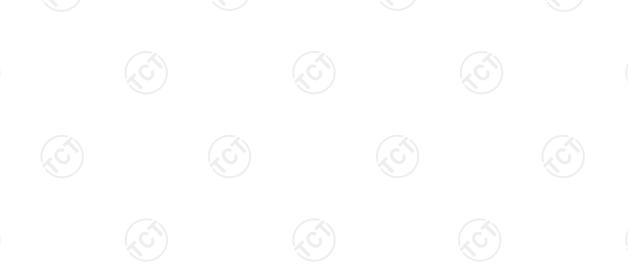
Report No.: TCT180328E032



4.5. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Offset = RF cable loss + attenuator factor.



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5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab.

The 3m Semi-anechoic chamber 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

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. 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	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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6. Test Results and Measurement Data

6.1. Conducted Output Power Measurement

6.1.1. Test Specification

Test Requirement:	FCC part 27.50(c), FCC part 27.50(d) and FCC part 27.50(h), FCC part 24.232(c),
Test Method:	FCC part 2.1046
Limits:	LTE Band 2: 2W LTE Band 4: 1W
Test Setup:	System Simulator
Test Procedure:	 The transmitter output port was connected to the system simulator. Set EUT at maximum power through system simulator. Select lowest, middle, highest channels for each band and different modulation. Measure and record the power level from the system simulator.
Test Result:	PASS

6.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
RF cable (9kHz-40GHz)	тст	RE-05	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-02	N/A	Sep. 27, 2018

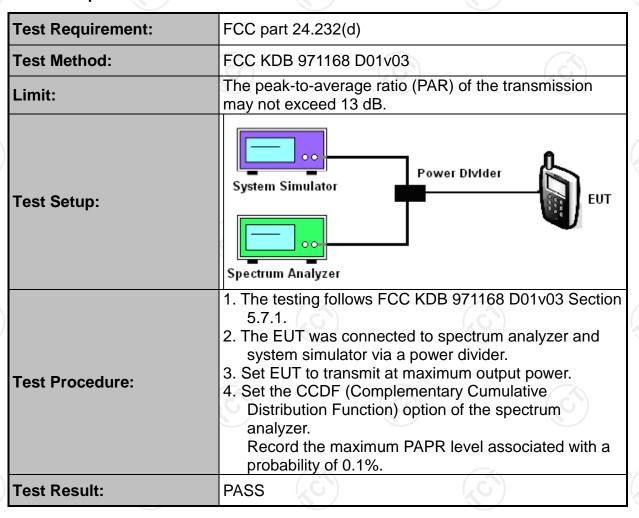
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.2. Peak to Average Ratio

6.2.1. Test Specification



6.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF cable (9kHz-40GHz)	тст	RE-05	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-02	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

6.3.1. Test Specification

Test Requirement:	FCC part 27.53(h)(3) and FCC part 27.53(m)(6), FCC part 24.238(b)				
Test Method:	FCC part 2.1049				
Limit:	N/A				
Test Setup:	System Simulator EUT Spectrum Analyzer				
Test Procedure:	 The testing follows FCC KDB 971168 D01v03 Section 4.2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. The 99% occupied bandwidth were measured, set RBW= 1% of OBW, VBW= 3*RBW, sample detector, trace maximum hold. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold. 				
Test Result:	PASS				

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF cable (9kHz-40GHz)	тст	RE-05	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-02	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.4. Band Edge and Conducted Spurious Emission Measurement

6.4.1. Test Specification

- X - /	201
Test Requirement:	FCC part 27.53(h), FCC part 27.53(g), FCC part 27.53(m)(4), FCC part 24.238(a)
Test Method:	FCC part2.1051
Limit:	-13dBm
Test Setup:	System Simulator Power Divider EUT Spectrum Analyzer
Test Procedure:	 The testing follows FCC KDB 971168 D01v03 Section 6.0. The EUT was connected to the spectrum analyzer and system simulator via a power divider. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement. The band edges of low and high channels for the highest RF powers were measured. The conducted spurious emission for the whole frequency range was taken. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) = P(W) - [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm. For Band 17, he limit line is derived from 55 + 10log(P) dB below the transmitter power
Test Result:	PASS
1701	[20]

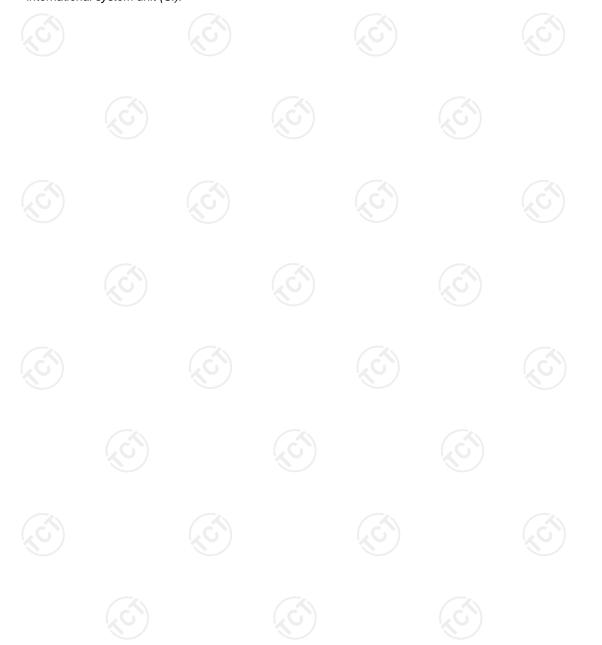
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6.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF cable (9kHz-40GHz)	TCT	RE-05	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-02	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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6.5. Field Strength of Spurious Radiation Measurement

6.5.1. Test Specification

Test Requirement:	FCC part 27.53(g) ,FCC part 27.53(h), FCC part 27.53(m)(4), FCC part 24.238(b)
Test Method:	FCC part 2.1053
Limit:	30MHz~20GHz -13dBm
Test setup:	Ant. feed point Spectrum Analyzer / Receiver Above 1GHz Ant. feed point Ant. feed point Ant. feed point Ant. feed point Spectrum Analyzer / Receiver Ant. feed point System Simulator System Simulator Spectrum Analyzer / Receiver
Test Procedure:	 The testing follows FCC KDB 971168 D01v03 Section 5.8 and ANSI / TIA-603-D-2010Section 2.2.12. The EUT was placed on a rotatable wooden table 0.8 meters above the ground. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower. The table was rotated 360 degrees to determine the position of the highest spurious emission. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.



TESTING CENTRE TECHNOLOGY	Report No.: TCT180328E03
TESTING CENTRE TECHNOLOGY	6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission. 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission. 9. Taking the record of output power at antenna port. 10. Repeat step 7 to step 8 for another polarization. 11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain 12. ERP (dBm) = EIRP - 2.15 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) = P(W) - [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm. For Band 17, he limit line is derived from 55 +
Test results:	10log(P) dB below the transmitter power PASS
i oot i ooditoi	1,7,00

6.5.2. Test Instruments

- 72	1201		<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Radiated Emission Test Site (966)						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
System simulator	R&S	CMU200	111382	Sep. 27, 2018		
Spectrum Analyzer	ROHDE&SCHW ARZ	R&S	FSQ	Sep. 27, 2018		
Signal Generator	HP	83623B	3614A00396	Sep. 27, 2018		
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018		
Broadband Antenna	Schwarzbeck	VULB9163	412	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Mar. 05, 2018		
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018		
Dipole Antenna	TCT	TCT-RF	N/A	Sep. 27, 2018		
Coax cable (9kHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018		
Coax cable	тст	RE-high-02	N/A	Sep. 27, 2018		



Report No.: TCT180328E032 (9kHz-40GHz) Coax cable **TCT** RE-low-03 N/A Sep. 27, 2018 (9kHz-1GHz) Coax cable RE-High-04 Sep. 27, 2018 **TCT** N/A (9kHz-40GHz) Antenna Mast Keleto CC-A-4M N/A N/A Shurple **EMI Test Software EZ-EMC** N/A N/A Technology

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





6.6. Frequency Stability Measurement

6.6.1. Test Specification

Test Requirement:	FCC part 27.54, FCC part 24.235					
Test Method:	FCC Part 2.1055					
Limit:	±2.5 ppm					
Test Setup:	System Simulator Thermal Chamber					
Test Procedure:	 Test Procedures for Temperature Variation The testing follows FCC KDB 971168 D01v03 Section 9.0. The EUT was set up in the thermal chamber and connected with the system simulator. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute. Test Procedures for Voltage Variation The testing follows FCC KDB 971168 D01v03 Section 9.0. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT. The variation in frequency was measured for the worst case. 					
Test Result:	PASS					

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6.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Programable tempratuce and humidity chamber	JQ	JQ-2000	N/A	Sep. 27, 2018
DC power supply	Kingrang	KR3005K 30V/5A	N/A	Sep. 27, 2018
RF cable (9kHz-40GHz)	тст	RE-04	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





Appendix A: Photographs of Test Setup

Refer to test report TCT180328E019

Appendix B: Photographs of EUT

Refer to test report TCT180328E019

